

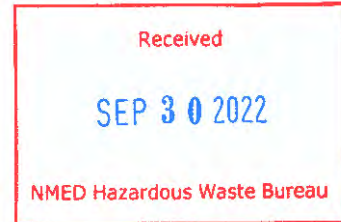


DEPARTMENT OF ENERGY
Environmental Management Los Alamos Field Office (EM-LA)
Los Alamos, New Mexico 87544

EMLA-2022-BF168-02-001

September 29, 2022

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 September 2022

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 (2016 Consent Order). Members of EM-LA and N3B met on September 15, 2022, 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 2022 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 also includes analytical data from samples collected at a location within the Pueblo de San Ildefonso, which are subject to reporting at this time. These data have been reviewed by the Pueblo, as required under the 2014 memorandum of agreement between the DOE National Nuclear Security Administration Los Alamos Field Office, EM-LA, and the Pueblo de San Ildefonso (as amended in 2015).

1-Day Notification

One-day oral notification was not required during the calendar month, because no contaminants were detected, in a well screen interval or spring, at a concentration that exceeded either the NMWQCC groundwater standard or federal MCL, at locations where such contaminants have not previously been detected above the respective standards as defined in the 2016 Consent Order (based on samples collected since June 14, 2007).

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 Ryan Flynn at (505) 470-0624 (ryan.flynn@em-la.doe.gov) or Hai Shen at (505) 709-7600 (hai.shen@em.doe.gov).

Sincerely,

**ARTURO
DURAN**

Digitally signed by
ARTURO DURAN
Date: 2022.09.28
07:11:56 -06'00'

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

Enclosure(s):

1. Summary of Groundwater Data Reviewed in September 2022 that Meet Notification Requirements (EM2022-0692)

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 C. Romero, NMED-GWQB

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SUMMARY OF GROUNDWATER DATA REVIEWED IN SEPTEMBER 2022 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 2022 monitoring year and contains results for contaminants and other chemical constituents that meet the five screening criteria described in Section XXVI of the 2016 Compliance Order on Consent, modified February 2017 (2016 Consent Order). The report covers groundwater samples collected from wells or springs (listed in the accompanying tables) that provide surveillance of the hydrogeological zones at Los Alamos National Laboratory, as indicated in the tables.

The report includes two tables. Table 1, NMED 8-22 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 8-22 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 2022 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.”

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 7 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:

CFA—Cape Fear Analytical, LLC

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

F—filtered

FD—field duplicate

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

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

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

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 SCRNLVL—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)

RE—reanalysis

REG—regular sample

RL—reporting limit

RPD—relative percent difference

SIM—selected ion monitoring

SVOC—semivolatile organic compound

SwRI—Southwest Research Institute

TDS—total dissolved solids

TNX—2,4,6-trinitroxylyene

UAL—upper acceptance limit

UF—unfiltered

UOM—unit of measurement

VOC—volatile organic compound

Analytical Laboratory Codes and Qualifiers

* (lab qualifier)— A quality control analyte recovery is outside of specified acceptance criteria.

B (lab qualifier)— Target analyte was detected in the associated blank.

H (lab qualifier)— Analytical holding time was exceeded.

HE1a (validation reason code)— The quantitating internal standard area count is less than the rejection limit of the expected value.

HE12a (validation reason code)— The laboratory control sample percent recovery was less than the lower acceptance limit and greater than or equal to the rejection limit.

HR4g (validation reason code)—The detected sample result is greater than or equal to 5 times and less than 100 times the detected concentration of the same analyte in the associated blank.

HR12a (validation reason code)—The laboratory control sample or ongoing precision and recovery sample percent recovery was less than the lower acceptance limit and greater than or equal to the rejection limit.

HR12e (validation reason code)—The matrix spike percent recovery was less than the lower control limit.

I4a (validation reason code)— The detected sample result is greater than or equal to 5 times and less than 100 times the concentration of the same analyte in the method blank.

I4g (validation reason code)— The detected sample result is greater than or equal to 5 times and less than 100 times the concentration of the same analyte in the associated blank.

I6a (validation reason code)— The associated matrix spike percent recovery is less than the lower acceptance limit.

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

I7h (validation reason code)—The initial or continuing calibration blank result is greater than method detection limit and the detected sample result is greater than or equal to 5 times and less than 100 times the blank result.

I9 (validation reason code)—The extraction or analytical holding time was exceeded but was less than or equal to 2 times the appropriate holding time.

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

I10a (validation reason code)—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.

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

I10k (validation reason code)—Level 3 data validation identified duplicate sample issues affecting data usability.

I19 (validation reason code)— The data validator identified quality deficiencies in the reported data that require further qualification. The best value flag of the original result is also changed to N.

J (lab qualifier)— Value is estimated.

J (validation qualifier)— The analyte was positively identified, the associated numerical value is the approximate concentration of the analyte in the sample.

J- (validation qualifier)— The analyte was positively identified, the associated numerical value is the approximate concentration of the analyte in the sample, but likely to have a low bias.

J+ (validation qualifier)— The analyte was positively identified, the associated numerical value is the approximate concentration of the analyte in the sample, but likely to have a high 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 (validation reason code)—The sample temperature was greater than 6°C, or the sample preservation criteria was not met, upon receipt at the laboratory.

PE12e (validation reason code)—The matrix spike or matrix spike duplicate percent recovery was less than the lower acceptance limit.

SV7b (validation reason code)—The initial or continuing calibration verification relative response factor is less than the laboratory's lower limit.

SV7c (validation reason code)— The initial and/or continuing calibration verification recoveries are outside the appropriate limits.

SV8 (validation reason code)—The affected analyte is considered not detected because mass spectrum did not meet specifications.

SV9 (validation reason code)—The holding time was greater than 1 time and less than 2 times the applicable holding time requirement.

V7b (validation reason code)—The initial or continuing calibration verification 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.

Table 1: NMED 8-22 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 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	1	1	07/21/2022	3.37	3.37	3.37	1	Mortandad Canyon	Alluvial	MCO-5	21.0	07/21/2022	REG	UF	INIT	LCMS/MS	Perfluorohexanesulfonic acid	355-46-4	3.37	1	NMED A1 TAP SCRNLVL	401	0	0.585	ng/L	1.00		NQ	NQ	EPA:537M	GELC	
C1	1	1	07/21/2022	12.8	12.8	12.8	1	Mortandad Canyon	Alluvial	MCO-5	21.0	07/21/2022	REG	UF	INIT	LCMS/MS	Perfluorooctanesulfonic acid	1763-23-1	12.8	1	NMED A1 TAP SCRNLVL	60	0.2	0.709	ng/L	1.00		NQ	NQ	EPA:537M	GELC	
C1	1	1	07/21/2022	7.81	7.81	7.81	1	Mortandad Canyon	Alluvial	MCO-5	21.0	07/21/2022	REG	UF	INIT	LCMS/MS	Perfluorooctanoic acid	335-67-1	7.81	1	NMED A1 TAP SCRNLVL	60	0.1	0.709	ng/L	1.00		NQ	NQ	EPA:537M	GELC	
C1	16	18	03/16/2004	9.47	9.47	9.47	1	Mortandad Canyon	Regional	R-16 S2	863.4	07/19/2022	REG	UF	INIT	SVOC	Benzoic Acid	65-85-0	9.47	1	EPA TAP SCRNLVL	75000	0	6.00	µg/L	1.00	J	J	J_LAB	SW-846:8270E	GELC	
C2	87	91	02/17/2009	52.1	108	60.8	91	Mortandad Canyon	Regional	R-44 S1	895.0	07/12/2022	REG	F	INIT	Geninorg	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	108	2	LANL Reg BG LVL	72.9	1.5	1.45	mg/L	1.00		NQ	NQ	EPA:310.1	GELC	
C3	4	5	11/10/2021	2.78	8.29	3.27	5	Mortandad Canyon	Regional	CRPZ-4	957.0	07/19/2022	REG	F	RE	LCMS/MS	Perchlorate	CIO4	8.29	3	NMED A1 TAP SCRNLVL	13.8	0.6	0.0500	µg/L	1.00		NQ	NQ	SW-846:6850	GELC	
C3	35	48	12/19/2005	1.6	5.09	3.38	25	Mortandad Canyon	Regional	R-16r	600.0	07/22/2022	REG	F	INIT	Metals	Arsenic	As	5.09	2	NM GW STD	10	0.5	2.00	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
C3	35	48	12/19/2005	1.6	5.09	3.38	25	Mortandad Canyon	Regional	R-16r	600.0	07/22/2022	FD	F	INIT	Metals	Arsenic	As	5.02	2	NM GW STD	10	0.5	2.00	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
C4	4	4	11/22/2021	14.9	16.4	15.7	4	Mortandad Canyon	Regional	CRPZ-5	976.0	07/21/2022	REG	F	INIT	Geninorg	Chloride	Cl(-1)	16.4	1	LANL Reg BG LVL	2.7	6.1	0.134	mg/L	2.00		NQ	NQ	EPA:300.0	GELC	
C4	4	4	11/22/2021	411	479	439.5	4	Mortandad Canyon	Regional	CRPZ-5	976.0	07/21/2022	REG	F	INIT	Metals	Chromium	Cr	463	1	LANL Reg BG LVL	7.48	61.9	3.00	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
C4	4	4	11/22/2021	2.88	3.13	3.07	4	Mortandad Canyon	Regional	CRPZ-5	976.0	07/21/2022	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	3.09	1	LANL Reg BG LVL	0.769	4	0.170	mg/L	10.0		NQ	NQ	EPA:353.2	GELC	
C4	4	4	11/22/2021	25.8	29.2	27.2	4	Mortandad Canyon	Regional	CRPZ-5	976.0	07/21/2022	REG	F	INIT	Geninorg	Sulfate	SO4(-2)	29.2	1	LANL Reg BG LVL	4.59	6.4	0.266	mg/L	2.00		NQ	NQ	EPA:300.0	GELC	
C4	4	5	11/10/2021	57.5	62.1	59.4	5	Mortandad Canyon	Regional	CrPZ-2a	909.8	07/20/2022	REG	F	INIT	Metals	Calcium	Ca	59.4	1	LANL Reg BG LVL	17.03	3.5	0.05	mg/L	1.00		NQ	NQ	SW-846:6010D	GELC	
C4	4	4	11/09/2021	17.1	18.9	18.25	4	Mortandad Canyon	Regional	CRPZ-3	939.4	07/20/2022	REG	F	INIT	Geninorg	Chloride	Cl(-1)	18.5	1	LANL Reg BG LVL	2.7	6.9	0.335	mg/L	5.00		NQ	NQ	EPA:300.0	GELC	
C4	4	5	11/10/2021	46.1	54.7	47.8	5	Mortandad Canyon	Regional	CrPZ-2a	909.8	07/20/2022	REG	F	INIT	Geninorg	Chloride	Cl(-1)	53.3	1	LANL Reg BG LVL	2.7	19.7	0.670	mg/L	10.0		NQ	NQ	EPA:300.0	GELC	
C4	4	4	11/09/2021	297	416	325.5	4	Mortandad Canyon	Regional	CRPZ-3	939.4	07/20/2022	REG	F	INIT	Metals	Chromium	Cr	351	1	LANL Reg BG LVL	7.48	46.9	3.00	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
C4	4	5	11/10/2021	179	239	190	5	Mortandad Canyon	Regional	CrPZ-2a	909.8	07/20/2022	REG	F	INIT	Metals	Chromium	Cr	179	1	LANL Reg BG LVL	7.48	23.9	3.00	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
C4	4	5	11/10/2021	201	221	208	5	Mortandad Canyon	Regional	CrPZ-2a	909.8	07/20/2022	REG	F	INIT	Geninorg	Hardness	Hardness	208	1	LANL Reg BG LVL	67.1	3.1	0.453	mg/L	1.00		NQ	NQ	SM:A2340B	GELC	
C4	4	5	11/10/2021	13.8	16.1	14.2	5	Mortandad Canyon	Regional	CrPZ-2a	909.8	07/20/2022	REG	F	INIT	Metals	Magnesium	Mg	14.6	1	LANL Reg BG LVL	4.18	3.5	0.11	mg/L	1.00		NQ	NQ	SW-846:6010D	GELC	
C4	4	5	11/10/2021	6.34	8.24	6.89	5	Mortandad Canyon	Regional	CrPZ-2a	909.8	07/20/2022	REG	F	INIT	Metals	Nickel	Ni	6.34	1	LANL Reg BG LVL	2.9	2.2	0.600	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
C4	4	4	11/09/2021	5.2	5.54	5.235	4	Mortandad Canyon	Regional	CRPZ-3	939.4	07/20/2022	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	5.20	1	LANL Reg BG LVL	0.769	6.8	0.425	mg/L	25.0		NQ	NQ	EPA:353.2	GELC	
C4	4	5	11/10/2021	3.8	4.84	4.37	5	Mortandad Canyon	Regional	CrPZ-2a	909.8	07/20/2022	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	3.80	1	LANL Reg BG LVL	0.769	4.9	0.425	mg/L	25.0		NQ	NQ	EPA:353.2	GELC	

Table 1: NMED 8-22 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 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	4	4	11/09/2021	1.08	1.18	1.145	4	Mortandad Canyon	Regional	CRPZ-3	939.4	07/20/2022	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	4	5	11/10/2021	0.961	1.08	0.982	5	Mortandad Canyon	Regional	CrPZ-2a	909.8	07/20/2022	REG	F	RE	LCMS/MS	Perchlorate	CIO4	0.995	1	LANL Reg BG LVL	0.414	2.4	0.0500	µg/L	1.00		NQ	NQ	SW-846:6850	GELC	
C4	4	4	11/09/2021	27.9	31.3	29.2	4	Mortandad Canyon	Regional	CRPZ-3	939.4	07/20/2022	REG	F	INIT	Geninorg	Sulfate	SO4(-2)	31.3	1	LANL Reg BG LVL	4.59	6.8	0.665	mg/L	5.00		NQ	NQ	EPA:300.0	GELC	
C4	4	5	11/10/2021	58.5	64.5	60.1	5	Mortandad Canyon	Regional	CrPZ-2a	909.8	07/20/2022	REG	F	INIT	Geninorg	Sulfate	SO4(-2)	64.5	1	LANL Reg BG LVL	4.59	14.1	1.33	mg/L	10.0		NQ	NQ	EPA:300.0	GELC	
C4	4	5	11/10/2021	329	393	370	5	Mortandad Canyon	Regional	CrPZ-2a	909.8	07/20/2022	REG	F	INIT	Geninorg	Total Dissolved Solids	TDS	370	1	LANL Reg BG LVL	161	2.3	3.40	mg/L	1.00		NQ	NQ	EPA:160.1	GELC	
C4	4	5	11/10/2021	3.51	3.9	3.8	5	Mortandad Canyon	Regional	CrPZ-2a	909.8	07/20/2022	REG	F	INIT	Metals	Uranium	U	3.86	1	LANL Reg BG LVL	1.19	3.2	0.0670	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
C4	4	4	11/04/2021	6.02	7.81	6.785	4	Mortandad Canyon	Regional	CRPZ-1	1122.9	07/19/2022	REG	F	INIT	Geninorg	Chloride	Cl(-1)	6.84	1	LANL Reg BG LVL	2.7	2.5	0.0670	mg/L	1.00		J-	I6a	EPA:300.0	GELC	
C4	4	5	11/10/2021	6.31	10.1	6.68	5	Mortandad Canyon	Regional	CRPZ-4	957.0	07/19/2022	REG	F	INIT	Geninorg	Chloride	Cl(-1)	10.1	2	LANL Reg BG LVL	2.7	3.7	0.134	mg/L	2.00		J-	I6a	EPA:300.0	GELC	
C4	4	4	11/04/2021	72.5	102	77.9	4	Mortandad Canyon	Regional	CRPZ-1	1122.9	07/19/2022	REG	F	INIT	Metals	Chromium	Cr	78.7	1	LANL Reg BG LVL	7.48	10.5	3.00	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
C4	4	5	11/10/2021	88.4	156	92.4	5	Mortandad Canyon	Regional	CRPZ-4	957.0	07/19/2022	REG	F	INIT	Metals	Chromium	Cr	156	2	LANL Reg BG LVL	7.48	20.9	3.00	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
C4	4	4	11/04/2021	2.66	3.15	2.9	4	Mortandad Canyon	Regional	CRPZ-1	1122.9	07/19/2022	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	3.15	1	LANL Reg BG LVL	0.769	4.1	0.425	mg/L	25.0		NQ	NQ	EPA:353.2	GELC	
C4	4	4	11/10/2021	4.77	5.3	5.1	4	Mortandad Canyon	Regional	CRPZ-4	957	07/19/2022	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	5.30	1	LANL Reg BG LVL	0.769	6.9	0.425	mg/L	25.0		NQ	NQ	EPA:353.2	GELC	
C4	4	4	11/04/2021	12.9	16.2	14.5	4	Mortandad Canyon	Regional	CRPZ-1	1122.9	07/19/2022	REG	F	DL	LCMS/MS	Perchlorate	CIO4	15.4	1	LANL Reg BG LVL	0.414	37.2	0.250	µg/L	5.00		NQ	NQ	SW-846:6850	GELC	
C4	4	5	11/10/2021	2.78	8.29	3.27	5	Mortandad Canyon	Regional	CRPZ-4	957	07/19/2022	REG	F	RE	LCMS/MS	Perchlorate	CIO4	8.29	3	LANL Reg BG LVL	0.414	20	0.0500	µg/L	1.00		NQ	NQ	SW-846:6850	GELC	
C4	4	4	11/04/2021	10.3	12.7	11.1	4	Mortandad Canyon	Regional	CRPZ-1	1122.9	07/19/2022	REG	F	INIT	Geninorg	Sulfate	SO4(-2)	11.0	1	LANL Reg BG LVL	4.59	2.4	0.133	mg/L	1.00		NQ	NQ	EPA:300.0	GELC	
C4	4	5	11/10/2021	12.3	16.8	12.6	5	Mortandad Canyon	Regional	CRPZ-4	957	07/19/2022	REG	F	INIT	Geninorg	Sulfate	SO4(-2)	16.8	1	LANL Reg BG LVL	4.59	3.7	0.133	mg/L	1.00		NQ	NQ	EPA:300.0	GELC	
C4	24	26	08/04/2020	11.1	19.3	15.4	26	Mortandad Canyon	Regional	R-70 S2*	1048.0	07/13/2022	REG	F	INIT	Geninorg	Chloride	Cl(-1)	13.4	1	LANL Reg BG LVL	2.7	5	0.134	mg/L	2.00		J+	I4g	EPA:300.0	GELC	
C4	24	26	08/04/2020	131	272	203.5	26	Mortandad Canyon	Regional	R-70 S2*	1048.0	07/13/2022	REG	F	INIT	Metals	Chromium	Cr	162	1	LANL Reg BG LVL	7.48	21.7	3.00	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
C4	24	26	08/04/2020	2.59	4.06	3.66	26	Mortandad Canyon	Regional	R-70 S2*	1048.0	07/13/2022	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	3.36	1	LANL Reg BG LVL	0.769	4.4	0.0850	mg/L	5.00		NQ	NQ	EPA:353.2	GELC	
C4	24	27	08/04/2020	2.13	2.92	2.51	27	Mortandad Canyon	Regional	R-70 S1*	963.0	07/13/2022	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.41	1	LANL Reg BG LVL	0.769	3.1	0.0850	mg/L	5.00		NQ	NQ	EPA:353.2	GELC	
C4	24	26	08/04/2020	17.5	32.6	25.8	26	Mortandad Canyon	Regional	R-70 S2*	1048.0	07/13/2022	REG	F	INIT	Geninorg	Sulfate	SO4(-2)	20.6	1	LANL Reg BG LVL	4.59	4.5	0.266	mg/L	2.00		J+	I6b	EPA:300.0	GELC	
C4	54	69	10/21/2008	56.1	84.1	69.4	69	Sandia Canyon	Intermediate	SCI-2	548.0	07/06/2022	REG	F	INIT	Metals	Barium	Ba	75.9	1	LANL Int BG LVL	13.5	5.6	1.00	µg/L	1.00		NQ	NQ	SW-846:6010D	GELC	
C4	54	69	10/21/2008	59.5	76.3	68.3	69	Sandia Canyon	Intermediate	SCI-2	548.0	07/06/2022	REG	F	INIT	Metals	Calcium	Ca	74.8	1	LANL Int BG LVL	10.7	7	0.05	mg/L	1.00		NQ	NQ	SW-846:6010D	GELC	
C4	54	67	10/21/2008	53.4	93	68.7	67	Sandia Canyon	Intermediate	SCI-2	548.0	07/06/2022	REG	F	INIT	Geninorg	Chloride	Cl(-1)	79.9	1	LANL Int BG LVL	3.11	25.7	1.34	mg/L	20.0		NQ	NQ	EPA:300.0	GELC	

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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 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	54	69	10/21/2008	204	263	236.5	68	Sandia Canyon	Intermediate	SCI-2	548.0	07/06/2022	REG	F	INIT	Geninorg	Hardness	Hardness	260	1	LANL Int BG LVL	37.8	6.9	0.453	mg/L	1.00		NQ	NQ	SM:A2340B	GELC	
C4	53	67	10/21/2008	13.1	17.9	15.9	67	Sandia Canyon	Intermediate	SCI-2	548.0	07/06/2022	REG	F	INIT	Metals	Magnesium	Mg	17.9	1	LANL Int BG LVL	3.14	5.7	0.11	mg/L	1.00		NQ	NQ	SW-846:6010D	GELC	
C4	54	69	10/21/2008	13.1	19.6	16.4	69	Sandia Canyon	Intermediate	SCI-2	548.0	07/06/2022	REG	F	INIT	Metals	Nickel	Ni	14.1	1	LANL Int BG LVL	3.65	3.9	0.600	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
C4	54	67	10/21/2008	2.89	5.1	4.07	67	Sandia Canyon	Intermediate	SCI-2	548.0	07/06/2022	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	3.24	1	LANL Int BG LVL	0.459	7.1	0.0850	mg/L	5.00		NQ	NQ	EPA:353.2	GELC	
C4	54	67	10/21/2008	0.829	1.12	0.943	67	Sandia Canyon	Intermediate	SCI-2	548.0	07/06/2022	REG	F	INIT	LCMS/MS	Perchlorate	ClO4	0.829	1	LANL Int BG LVL	0.27	3.1	0.0500	µg/L	1.00		NQ	NQ	SW-846:6850	GELC	
C4	54	69	10/21/2008	264	369	330	69	Sandia Canyon	Intermediate	SCI-2	548.0	07/06/2022	REG	F	INIT	Metals	Strontium	Sr	368	1	LANL Int BG LVL	59.6	6.2	1.00	µg/L	1.00		NQ	NQ	SW-846:6010D	GELC	
C4	54	67	10/21/2008	77.9	103	88.6	67	Sandia Canyon	Intermediate	SCI-2	548.0	07/06/2022	REG	F	INIT	Geninorg	Sulfate	SO4(-2)	84.8	1	LANL Int BG LVL	7.1	11.9	2.66	mg/L	20.0		NQ	NQ	EPA:300.0	GELC	
C4	54	69	10/21/2008	1.2	2.77	1.88	69	Sandia Canyon	Intermediate	SCI-2	548.0	07/06/2022	REG	F	INIT	Metals	Uranium	U	2.58	1	LANL Int BG LVL	0.992	2.6	0.0670	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
C4	26	32	09/19/2000	2.23	8.36	6.395	32	Sandia Canyon	Intermediate	R-12 S2	504.5	07/15/2022	REG	F	INIT	Geninorg	Chloride	Cl(-1)	8.36	1	LANL Int BG LVL	3.11	2.7	0.0670	mg/L	1.00		J+	I4g	EPA:300.0	GELC	
C4	25	29	09/19/2000	0.051	1.55	1.205	28	Sandia Canyon	Intermediate	R-12 S2	504.5	07/15/2022	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	1.25	1	LANL Int BG LVL	0.459	2.7	0.0850	mg/L	5.00		J+	I6b	EPA:353.2	GELC	
C4	38	45	03/26/2012	1.64	21.3	10.6	45	Sandia Canyon	Regional	R-62	1158.4	07/25/2022	REG	F	INIT	Geninorg	Chloride	Cl(-1)	16.6	2	LANL Reg BG LVL	2.7	6.1	0.335	mg/L	5.00		J+	I6b	EPA:300.0	GELC	
C4	38	45	03/26/2012	104	351	200	45	Sandia Canyon	Regional	R-62	1158.4	07/25/2022	REG	F	INIT	Metals	Chromium	Cr	265	1	LANL Reg BG LVL	7.48	35.4	3.00	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
C4	38	45	03/26/2012	0.0685	2.37	1.41	45	Sandia Canyon	Regional	R-62	1158.4	07/25/2022	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.30	2	LANL Reg BG LVL	0.769	3	0.0850	mg/L	5.00		J+	I6b	EPA:353.2	GELC	
C4	38	45	03/26/2012	2.56	37.4	19.6	45	Sandia Canyon	Regional	R-62	1158.4	07/25/2022	REG	F	INIT	Geninorg	Sulfate	SO4(-2)	28.6	2	LANL Reg BG LVL	4.59	6.2	0.665	mg/L	5.00		J+	I6b	EPA:300.0	GELC	
C4	54	63	11/05/2008	3.6	9.39	7.91	63	Sandia Canyon	Regional	R-43 S1	903.9	07/13/2022	REG	F	INIT	Geninorg	Chloride	Cl(-1)	7.70	1	LANL Reg BG LVL	2.7	2.9	0.0670	mg/L	1.00		J+	I4g	EPA:300.0	GELC	
C4	54	68	11/05/2008	2.35	223	146	65	Sandia Canyon	Regional	R-43 S1	903.9	07/13/2022	REG	F	INIT	Metals	Chromium	Cr	178	1	LANL Reg BG LVL	7.48	23.8	3.00	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
C4	54	62	11/05/2008	4.63	6.15	5.33	61	Sandia Canyon	Regional	R-43 S1	903.9	07/13/2022	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	4.63	1	LANL Reg BG LVL	0.769	6	0.0850	mg/L	5.00		NQ	NQ	EPA:353.2	GELC	
C4	54	63	11/05/2008	8.77	21	16.3	63	Sandia Canyon	Regional	R-43 S1	903.9	07/13/2022	REG	F	INIT	Geninorg	Sulfate	SO4(-2)	16.1	1	LANL Reg BG LVL	4.59	3.5	0.133	mg/L	1.00		J+	I6b	EPA:300.0	GELC	
C4	53	59	11/10/2008	3.37	8.66	5.25	59	Sandia Canyon	Regional	R-43 S2	969.1	07/05/2022	REG	F	INIT	Geninorg	Chloride	Cl(-1)	7.01	1	LANL Reg BG LVL	2.7	2.6	0.0670	mg/L	1.00		NQ	NQ	EPA:300.0	GELC	
C4	53	64	11/10/2008	1.8	49.1	12.6	54	Sandia Canyon	Regional	R-43 S2	969.1	07/05/2022	REG	F	INIT	Metals	Chromium	Cr	31.6	3	LANL Reg BG LVL	7.48	4.2	3.00	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
C4	53	58	11/10/2008	0.389	5.4	3.415	58	Sandia Canyon	Regional	R-43 S2	969.1	07/05/2022	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	3.86	1	LANL Reg BG LVL	0.769	5	0.0850	mg/L	5.00		NQ	NQ	EPA:353.2	GELC	
C4	53	59	11/10/2008	0.411	0.953	0.831	59	Sandia Canyon	Regional	R-43 S2	969.1	07/05/2022	REG	F	INIT	LCMS/MS	Perchlorate	ClO4	0.831	1	LANL Reg BG LVL	0.414	2	0.0500	µg/L	1.00		NQ	NQ	SW-846:6850	GELC	
C4	53	59	11/10/2008	3.96	11.5	7.97	59	Sandia Canyon	Regional	R-43 S2	969.1	07/05/2022	REG	F	INIT	Geninorg	Sulfate	SO4(-2)	10.2	1	LANL Reg BG LVL	4.59	2.2	0.133	mg/L	1.00		NQ	NQ	EPA:300.0	GELC	
C4	97	117	05/17/2005	2.27	7.43	5.53	117	Sandia Canyon	Regional	R-11	855.0	07/05/2022	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	6.81	1	LANL Reg BG LVL	0.769	8.9	0.170	mg/L	10.0		NQ	NQ	EPA:353.2	GELC	

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C4	97	117	05/17/2005	5.95	20.2	9.67	117	Sandia Canyon	Regional	R-11	855.0	07/05/2022	REG	F	INIT	Geninorg	Sulfate	SO4(-2)	9.67	1	LANL Reg BG LVL	4.59	2.1	0.133	mg/L	1.00		NQ	NQ	EPA:300.0	GELC	
C4	85	97	08/30/2007	68	408	348	97	Sandia Canyon	Regional	R-35a	1013	07/08/2022	REG	F	INIT	Metals	Barium	Ba	354	1	LANL Reg BG LVL	38.1	9.3	1.00	µg/L	1.00		NQ	NQ	SW-846:6010D	GELC	
C4	84	97	08/30/2007	5.97	7.31	6.58	97	Sandia Canyon	Regional	R-35a	1013	07/08/2022	REG	F	INIT	Geninorg	Chloride	Cl(-1)	6.75	1	LANL Reg BG LVL	2.7	2.5	0.0670	mg/L	1.00		NQ	NQ	EPA:300.0	GELC	
C4	85	97	08/30/2007	1.2	22.2	8.095	96	Sandia Canyon	Regional	R-35a	1013	07/08/2022	REG	F	INIT	Metals	Nickel	Ni	6.42	1	LANL Reg BG LVL	2.9	2.2	0.600	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
C4	53	60	03/12/2008	4.05	6.83	6.115	60	Sandia Canyon	Regional	R-36	766.9	07/18/2022	REG	F	INIT	Geninorg	Chloride	Cl(-1)	6.33	1	LANL Reg BG LVL	2.7	2.3	0.0670	mg/L	1.00		NQ	NQ	EPA:300.0	GELC	
C4	53	61	03/12/2008	1.25	6.8	2.43	61	Sandia Canyon	Regional	R-36	766.9	07/18/2022	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.73	1	LANL Reg BG LVL	0.769	3.6	0.170	mg/L	10.0		NQ	NQ	EPA:353.2	GELC	
C4	52	59	03/12/2008	0.845	1.74	1.49	59	Sandia Canyon	Regional	R-36	766.9	07/18/2022	REG	F	INIT	LCMS/MS	Perchlorate	ClO4	1.21	1	LANL Reg BG LVL	0.414	2.9	0.0500	µg/L	1.00		NQ	NQ	SW-846:6850	GELC	
C4	41	50	11/30/2005	5.62	7.09	6.225	50	Sandia Canyon	Regional	R-10a	690.0	05/06/2022	REG	F	INIT	Geninorg	Chloride	Cl(-1)	6.90	1	LANL Reg BG LVL	2.7	2.6	0.0670	mg/L	1.00		J+	I6b	EPA:300.0	GELC	
C4	41	50	11/30/2005	9.36	12.9	10.3	50	Sandia Canyon	Regional	R-10a	690.0	05/06/2022	REG	F	INIT	Geninorg	Sulfate	SO4(-2)	10.9	1	LANL Reg BG LVL	4.59	2.4	0.133	mg/L	1.00		J+	I6b	EPA:300.0	GELC	
C4	67	89	06/15/2005	30.1	48.2	39.3	89	Mortandad Canyon	Intermediate	MCOI-6	686.0	07/20/2022	REG	F	INIT	Metals	Barium	Ba	34.9	1	LANL Int BG LVL	13.5	2.6	1.00	µg/L	1.00		NQ	NQ	SW-846:6010D	GELC	
C4	67	87	06/15/2005	42.8	75.5	62.1	87	Mortandad Canyon	Intermediate	MCOI-6	686.0	07/20/2022	REG	F	INIT	Metals	Calcium	Ca	55.5	1	LANL Int BG LVL	10.7	5.2	0.05	mg/L	1.00		NQ	NQ	SW-846:6010D	GELC	
C4	68	88	06/15/2005	21.2	64.8	52.65	88	Mortandad Canyon	Intermediate	MCOI-6	686.0	07/20/2022	REG	F	INIT	Geninorg	Chloride	Cl(-1)	47.5	1	LANL Int BG LVL	3.11	15.3	0.670	mg/L	10.0		NQ	NQ	EPA:300.0	GELC	
C4	68	88	06/15/2005	0.412	0.668	0.525	85	Mortandad Canyon	Intermediate	MCOI-6	686.0	07/20/2022	REG	F	INIT	Geninorg	Fluoride	F(-1)	0.602	1	LANL Int BG LVL	0.234	2.6	0.0330	mg/L	1.00		NQ	NQ	EPA:300.0	GELC	
C4	67	87	06/15/2005	142	253	207	87	Mortandad Canyon	Intermediate	MCOI-6	686.0	07/20/2022	REG	F	INIT	Geninorg	Hardness	Hardness	186	1	LANL Int BG LVL	37.8	4.9	0.453	mg/L	1.00		NQ	NQ	SM:A2340B	GELC	
C4	67	87	06/15/2005	8.49	15.7	12.7	87	Mortandad Canyon	Intermediate	MCOI-6	686.0	07/20/2022	REG	F	INIT	Metals	Magnesium	Mg	11.5	1	LANL Int BG LVL	3.14	3.7	0.11	mg/L	1.00		NQ	NQ	SW-846:6010D	GELC	
C4	67	89	06/15/2005	2.9	41.8	21.6	89	Mortandad Canyon	Intermediate	MCOI-6	686.0	07/20/2022	REG	F	INIT	Metals	Nickel	Ni	11.9	1	LANL Int BG LVL	3.65	3.3	0.600	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
C4	68	88	06/15/2005	7.62	27.7	11.05	88	Mortandad Canyon	Intermediate	MCOI-6	686.0	07/20/2022	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	13.4	1	LANL Int BG LVL	0.459	29.2	0.850	mg/L	50.0		NQ	NQ	EPA:353.2	GELC	
C4	63	79	02/26/2007	56.3	190	81.4	79	Mortandad Canyon	Intermediate	MCOI-6	686.0	07/20/2022	REG	F	DL	LCMS/MS	Perchlorate	ClO4	105	1	LANL Int BG LVL	0.27	389	1.00	µg/L	20.0		NQ	NQ	SW-846:6850	GELC	
C4	67	87	06/15/2005	196	339	274	87	Mortandad Canyon	Intermediate	MCOI-6	686.0	07/20/2022	REG	F	INIT	Metals	Strontium	Sr	250	1	LANL Int BG LVL	59.6	4.2	1.00	µg/L	1.00		NQ	NQ	SW-846:6010D	GELC	
C4	67	89	06/15/2005	34.7	77.6	56.9	89	Mortandad Canyon	Intermediate	MCOI-6	686.0	07/20/2022	REG	F	INIT	Geninorg	Sulfate	SO4(-2)	47.4	1	LANL Int BG LVL	7.1	6.7	1.33	mg/L	10.0		NQ	NQ	EPA:300.0	GELC	
C4	65	80	02/24/2000	1.35	3.31	2.115	80	Mortandad Canyon	Regional	R-15	958.6	07/15/2022	FD	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.27	1	LANL Reg BG LVL	0.769	3	0.0850	mg/L	5.00		J+	I6b	EPA:353.2	GELC	
C4	65	80	02/24/2000	1.35	3.31	2.115	80	Mortandad Canyon	Regional	R-15	958.6	07/15/2022	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.16	1	LANL Reg BG LVL	0.769	2.8	0.0850	mg/L	5.00		J+	I6b	EPA:353.2	GELC	
C4	85	91	02/28/2009	3	21.5	5.54	91	Mortandad Canyon	Regional	R-45 S1	880.0	07/07/2022	REG	F	INIT	Geninorg	Chloride	Cl(-1)	20.1	4	LANL Reg BG LVL	2.7	7.4	0.335	mg/L	5.00		NQ	NQ	EPA:300.0	GELC	
C4	85	91	02/28/2009	0.535	13.8	1.24	76	Mortandad Canyon	Regional	R-45 S1	880.0	07/07/2022	REG	F	INIT	Metals	Nickel	Ni	11.4	9	LANL Reg BG LVL	2.9	3.9	0.600	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	

Table 1: NMED 8-22 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 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	85	91	02/28/2009	0.256	3.47	2.82	91	Mortandad Canyon	Regional	R-45 S1	880.0	07/07/2022	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	3.22	1	LANL Reg BG LVL	0.769	4.2	0.0850	mg/L	5.00		NQ	NQ	EPA:353.2	GELC	
C4	85	91	02/28/2009	4.1	21.4	8.39	91	Mortandad Canyon	Regional	R-45 S1	880.0	07/07/2022	REG	F	INIT	Geninorg	Sulfate	SO4(-2)	20.4	2	LANL Reg BG LVL	4.59	4.4	0.665	mg/L	5.00		NQ	NQ	EPA:300.0	GELC	
C4	84	89	03/05/2009	2.74	7.85	4.77	89	Mortandad Canyon	Regional	R-45 S2	974.9	07/07/2022	REG	F	INIT	Geninorg	Chloride	Cl(-1)	7.56	2	LANL Reg BG LVL	2.7	2.8	0.0670	mg/L	1.00		NQ	NQ	EPA:300.0	GELC	
C4	84	94	03/05/2009	6.1	65.2	29	93	Mortandad Canyon	Regional	R-45 S2	974.9	07/07/2022	REG	F	INIT	Metals	Chromium	Cr	61.3	2	LANL Reg BG LVL	7.48	8.2	3.00	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
C4	84	89	03/05/2009	3.37	12.4	5.89	89	Mortandad Canyon	Regional	R-45 S2	974.9	07/07/2022	REG	F	INIT	Geninorg	Sulfate	SO4(-2)	9.65	2	LANL Reg BG LVL	4.59	2.1	0.133	mg/L	1.00		NQ	NQ	EPA:300.0	GELC	
C4	71	82	05/20/2011	2.03	51	23.5	81	Mortandad Canyon	Regional	R-61 S1	1125.0	07/06/2022	FD	F	INIT	Metals	Chromium	Cr	48.1	2	LANL Reg BG LVL	7.48	6.4	3.00	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
C4	71	82	05/20/2011	2.03	51	23.5	81	Mortandad Canyon	Regional	R-61 S1	1125.0	07/06/2022	REG	F	INIT	Metals	Chromium	Cr	49.7	2	LANL Reg BG LVL	7.48	6.6	3.00	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
C4	71	82	05/20/2011	0.427	3.3	2.31	82	Mortandad Canyon	Regional	R-61 S1	1125.0	07/06/2022	FD	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.63	1	LANL Reg BG LVL	0.769	3.4	0.0850	mg/L	5.00		NQ	NQ	EPA:353.2	GELC	
C4	71	82	05/20/2011	0.427	3.3	2.31	82	Mortandad Canyon	Regional	R-61 S1	1125.0	07/06/2022	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.66	1	LANL Reg BG LVL	0.769	3.5	0.0850	mg/L	5.00		NQ	NQ	EPA:353.2	GELC	
C4	70	81	05/20/2011	2.96	17	12.3	81	Mortandad Canyon	Regional	R-61 S1	1125.0	07/06/2022	FD	F	INIT	LCMS/MS	Perchlorate	ClO4	13.0	1	LANL Reg BG LVL	0.414	31.4	0.500	µg/L	10.0		NQ	NQ	SW-846:6850	GELC	
C4	70	81	05/20/2011	2.96	17	12.3	81	Mortandad Canyon	Regional	R-61 S1	1125.0	07/06/2022	REG	F	INIT	LCMS/MS	Perchlorate	ClO4	13.1	1	LANL Reg BG LVL	0.414	31.6	0.500	µg/L	10.0		NQ	NQ	SW-846:6850	GELC	
C4	86	95	03/06/2010	4.68	22.4	10.1	95	Mortandad Canyon	Regional	R-50 S1	1077.0	07/12/2022	REG	F	INIT	Geninorg	Chloride	Cl(-1)	22.1	2	LANL Reg BG LVL	2.7	8.2	0.335	mg/L	5.00		J+	I4g	EPA:300.0	GELC	
C4	87	96	03/06/2010	1.51	25.6	6.285	96	Mortandad Canyon	Regional	R-50 S1	1077.0	07/12/2022	REG	F	INIT	Metals	Nickel	Ni	8.59	1	LANL Reg BG LVL	2.9	3	0.600	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
C4	87	97	03/06/2010	0.398	3.21	2.27	97	Mortandad Canyon	Regional	R-50 S1	1077.0	07/12/2022	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	3.21	1	LANL Reg BG LVL	0.769	4.2	0.0850	mg/L	5.00		NQ	NQ	EPA:353.2	GELC	
C4	86	95	03/06/2010	7.22	21.5	14.9	95	Mortandad Canyon	Regional	R-50 S1	1077.0	07/12/2022	REG	F	INIT	Geninorg	Sulfate	SO4(-2)	21.5	1	LANL Reg BG LVL	4.59	4.7	0.665	mg/L	5.00		NQ	NQ	EPA:300.0	GELC	
C4	87	91	02/17/2009	1.99	21.6	9.74	91	Mortandad Canyon	Regional	R-44 S1	895.0	07/12/2022	REG	F	INIT	Geninorg	Chloride	Cl(-1)	20.9	2	LANL Reg BG LVL	2.7	7.7	0.335	mg/L	5.00		J+	I4g	EPA:300.0	GELC	
C4	87	91	02/17/2009	0.536	109	32.45	64	Mortandad Canyon	Regional	R-44 S1	895.0	07/12/2022	REG	F	INIT	Metals	Nickel	Ni	43.1	1	LANL Reg BG LVL	2.9	14.9	0.600	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
C4	87	91	02/17/2009	0.123	3.86	1.935	90	Mortandad Canyon	Regional	R-44 S1	895.0	07/12/2022	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	3.01	2	LANL Reg BG LVL	0.769	3.9	0.0850	mg/L	5.00		NQ	NQ	EPA:353.2	GELC	
C4	87	91	02/17/2009	2.76	21.3	11.2	91	Mortandad Canyon	Regional	R-44 S1	895.0	07/12/2022	REG	F	INIT	Geninorg	Sulfate	SO4(-2)	20.5	2	LANL Reg BG LVL	4.59	4.5	0.665	mg/L	5.00		NQ	NQ	EPA:300.0	GELC	
C5	4	5	11/10/2021	2.78	8.29	3.27	5	Mortandad Canyon	Regional	CRPZ-4	957.0	07/19/2022	REG	F	RE	LCMS/MS	Perchlorate	ClO4	8.29	3	NMED A1 TAP SCRNL LVL	13.8	0.6	0.0500	µg/L	1.00		NQ	NQ	SW-846:6850	GELC	

* 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 8-22 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	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	26	32	12/03/2015	1.01	1.01	1.01	1	Sandia Canyon	Regional	R-67	1242.6	07/25/2022	REG	F	INIT	Metals	Antimony	Sb	1.01	1	Reg-Scr_95	1	1	1.00	µg/L	1.00	J	J	J_LAB	SW-846:6020B	GELC	
XC2scr	26	32	12/03/2015	1.03	1.03	1.03	1	Sandia Canyon	Regional	R-67	1242.6	07/25/2022	FD	F	INIT	Metals	Cobalt	Co	1.03	1	Reg-Scr_95	1	1	1.00	µg/L	1.00	J	J	J_LAB	SW-846:6010D	GELC	
XC2scr	4	4	11/22/2021	1.19	1.19	1.19	1	Mortandad Canyon	Regional	CRPZ-5	976.0	07/21/2022	REG	F	INIT	Metals	Cobalt	Co	1.19	1	Reg-Scr_95	1	1.2	1.00	µg/L	1.00	J	J	J_LAB	SW-846:6010D	GELC	
XC2scr	4	5	11/10/2021	0.118	0.118	0.118	1	Mortandad Canyon	Regional	CRPZ-4	957.0	07/19/2022	REG	F	INIT	Geninorg	Bromide	Br(-1)	0.118	1	Reg-Scr_95	0.067	1.8	0.0670	mg/L	1.00	J	J	J_LAB	EPA:300.0	GELC	
XC2scr	4	4	11/04/2021	0.117	0.117	0.117	1	Mortandad Canyon	Regional	CRPZ-1	1122.9	07/19/2022	REG	F	INIT	Geninorg	Total Phosphate as Phosphorus	PO4-P	0.117	1	Reg-Scr_95	0.0822	1.4	0.0200	mg/L	1.00		NQ	NQ	EPA:365.4	GELC	
XC2scr	4	4	11/10/2021	0.0384	0.0951	0.06675	2	Mortandad Canyon	Regional	CRPZ-4	957.0	07/19/2022	REG	F	INIT	Geninorg	Total Phosphate as Phosphorus	PO4-P	0.0951	1.4	Reg-Scr_95	0.0822	1.2	0.0200	mg/L	1.00		NQ	NQ	EPA:365.4	GELC	
XC2scr	23	30	03/16/2004	0.0173	0.27	0.0408	10	Mortandad Canyon	Regional	R-16 S2	863.4	07/19/2022	REG	F	INIT	Geninorg	Total Phosphate as Phosphorus	PO4-P	0.0926	2.3	Reg-Scr_95	0.0822	1.1	0.0200	mg/L	1.00		NQ	NQ	EPA:365.4	GELC	
XC4scr	4	5	11/10/2021	0.392	0.57	0.531	5	Mortandad Canyon	Regional	CrPZ-2a	909.8	07/20/2022	REG	F	INIT	Geninorg	Bromide	Br(-1)	0.570	1.1	Reg-Scr_95	0.067	8.5	0.0670	mg/L	1.00		NQ	NQ	EPA:300.0	GELC	
XC4scr	4	4	11/09/2021	101	119	105.5	4	Mortandad Canyon	Regional	CRPZ-3	939.4	07/20/2022	REG	F	INIT	Geninorg	Hardness	Hardness	105	1	Reg-Scr_95	51	2.1	0.453	mg/L	1.00		NQ	NQ	SM:A2340B	GELC	
XC4scr	4	5	11/10/2021	223	256	237	5	Mortandad Canyon	Regional	CrPZ-2a	909.8	07/20/2022	REG	F	INIT	Metals	Strontium	Sr	237	1	Reg-Scr_95	74.4	3.2	1.00	µg/L	1.00		NQ	NQ	SW-846:6010D	GELC	
XC4scr	54	67	10/21/2008	0.194	0.956	0.6505	66	Sandia Canyon	Intermediate	SCI-2	548.0	07/06/2022	REG	F	INIT	Geninorg	Bromide	Br(-1)	0.800	1.2	Int-Scr_95	0.0716	11.2	0.0670	mg/L	1.00		J+	I6b	EPA:300.0	GELC	
XC4scr	54	74	10/21/2008	198	658	429.5	74	Sandia Canyon	Intermediate	SCI-2	548.0	07/06/2022	REG	F	INIT	Metals	Chromium	Cr	213	0.5	Int-Scr_95	2.72	78.3	3.00	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
XC4scr	54	68	10/21/2008	354	796	430.5	68	Sandia Canyon	Intermediate	SCI-2	548.0	07/06/2022	REG	F	INIT	Geninorg	Total Dissolved Solids	TDS	423	1	Int-Scr_95	135	3.1	3.40	mg/L	1.00		J	I10er	EPA:160.1	GELC	
XC4scr	26	30	09/19/2000	23.6	180	35	30	Sandia Canyon	Intermediate	R-12 S2	504.5	07/15/2022	REG	F	INIT	Metals	Manganese	Mn	33.8	1	Int-Scr_95	8.39	4	2.00	µg/L	1.00		NQ	NQ	SW-846:6010D	GELC	
XC4scr	38	45	03/26/2012	0.0706	0.248	0.1255	40	Sandia Canyon	Regional	R-62	1158.4	07/25/2022	REG	F	INIT	Geninorg	Bromide	Br(-1)	0.168	1.3	Reg-Scr_95	0.067	2.5	0.0670	mg/L	1.00	J	J+	I6b	EPA:300.0	GELC	
XC4scr	85	97	08/30/2007	20.6	54.5	40.1	91	Sandia Canyon	Regional	R-35a	1013.1	07/08/2022	REG	F	INIT	Metals	Boron	B	43.0	1.1	Reg-Scr_95	18.7	2.3	15.0	µg/L	1.00	J	J	J_LAB	SW-846:6010D	GELC	
XC4scr	85	97	08/30/2007	137	199	169	97	Sandia Canyon	Regional	R-35a	1013.1	07/08/2022	REG	F	INIT	Metals	Strontium	Sr	170	1	Reg-Scr_95	74.4	2.3	1.00	µg/L	1.00		NQ	NQ	SW-846:6010D	GELC	
XC4scr	41	50	11/30/2005	161	244	195.5	50	Sandia Canyon	Regional	R-10a	690.0	05/06/2022	REG	F	INIT	Metals	Strontium	Sr	188	1	Reg-Scr_95	74.4	2.5	1.00	µg/L	1.00		NQ	NQ	SW-846:6010D	GELC	
XC4scr	67	89	06/15/2005	25.4	64.6	48.6	88	Mortandad Canyon	Intermediate	MCOI-6	686.0	07/20/2022	REG	F	INIT	Metals	Boron	B	57.0	1.2	Int-Scr_95	16.2	3.5	15.0	µg/L	1.00		NQ	NQ	SW-846:6010D	GELC	
XC4scr	67	87	06/15/2005	0.212	0.703	0.55	84	Mortandad Canyon	Intermediate	MCOI-6	686.0	07/20/2022	REG	F	INIT	Geninorg	Bromide	Br(-1)	0.444	0.8	Int-Scr_95	0.0716	6.2	0.0670	mg/L	1.00		NQ	NQ	EPA:300.0	GELC	
XC4scr	67	92	06/15/2005	29.4	86.6	59	92	Mortandad Canyon	Intermediate	MCOI-6	686.0	07/20/2022	REG	F	INIT	Metals	Chromium	Cr	54.2	0.9	Int-Scr_95	2.72	19.9	3.00	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
XC4scr	67	89	06/15/2005	3.81	26.1	8.75	87	Mortandad Canyon	Intermediate	MCOI-6	686.0	07/20/2022	REG	F	INIT	Metals	Copper	Cu	7.49	0.9	Int-Scr_95	3	2.5	3.00	µg/L	1.00	J	J	J_LAB	SW-846:6010D	GELC	
XC4scr	68	88	06/15/2005	298	527	401	88	Mortandad Canyon	Intermediate	MCOI-6	686.0	07/20/2022	REG	F	INIT	Geninorg	Total Dissolved Solids	TDS	351	0.9	Int-Scr_95	135	2.6	3.40	mg/L	1.00		NQ	NQ	EPA:160.1	GELC	
XC4scr	65	81	02/24/2000	2.6	18.2	11.6	78	Mortandad Canyon	Regional	R-15	958.6	07/15/2022	FD	F	INIT	Metals	Chromium	Cr	13.8	1.2	Reg-Scr_95	6.6	2.1	3.00	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
XC4scr	65	81	02/24/2000	2.6	18.2	11.6	78	Mortandad Canyon	Regional	R-15	958.6	07/15/2022	REG	F	INIT	Metals	Chromium	Cr	13.8	1.2	Reg-Scr_95	6.6	2.1	3.00	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	

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XC4scr	85	91	02/28/2009	0.0667	0.637	0.09885	50	Mortandad Canyon	Regional	R-45 S1	880.0	07/07/2022	REG	F	INIT	Geninorg	Bromide	Br(-1)	0.142	1.4	Reg-Scr_95	0.067	2.1	0.0670	mg/L	1.00	J	J+	I6b	EPA:300.0	GELC	
XC4scr	71	82	05/20/2011	0.0531	11.8	0.3965	78	Mortandad Canyon	Regional	R-61 S1	1125.0	07/06/2022	FD	F	INIT	Geninorg	Total Phosphate as Phosphorus	PO4-P	0.240	0.6	Reg-Scr_95	0.0822	2.9	0.0200	mg/L	1.00		NQ	NQ	EPA:365.4	GELC	
XC4scr	71	82	05/20/2011	0.0531	11.8	0.3965	78	Mortandad Canyon	Regional	R-61 S1	1125.0	07/06/2022	REG	F	INIT	Geninorg	Total Phosphate as Phosphorus	PO4-P	0.214	0.5	Reg-Scr_95	0.0822	2.6	0.0200	mg/L	1.00		NQ	NQ	EPA:365.4	GELC	
XC4scr	87	91	02/17/2009	0.0757	0.181	0.146	46	Mortandad Canyon	Regional	R-44 S1	895.0	07/12/2022	REG	F	INIT	Geninorg	Bromide	Br(-1)	0.142	1	Reg-Scr_95	0.067	2.1	0.0670	mg/L	1.00	J	J-	I6a	EPA:300.0	GELC	
XC4scr	35	48	12/19/2005	152	206	189	48	Mortandad Canyon	Regional	R-16r	600.0	07/22/2022	FD	F	INIT	Metals	Strontium	Sr	189	1	Reg-Scr_95	74.4	2.5	1.00	µg/L	1.00		NQ	NQ	SW-846:6010D	GELC	
XC4scr	35	48	12/19/2005	152	206	189	48	Mortandad Canyon	Regional	R-16r	600.0	07/22/2022	REG	F	INIT	Metals	Strontium	Sr	185	1	Reg-Scr_95	74.4	2.5	1.00	µg/L	1.00		NQ	NQ	SW-846:6010D	GELC	
XC4scr	23	26	05/12/2004	56.4	211	185	26	Mortandad Canyon	Regional	R-16 S2	863.4	07/19/2022	REG	F	INIT	Metals	Strontium	Sr	200	1.1	Reg-Scr_95	74.4	2.7	1.00	µg/L	1.00		NQ	NQ	SW-846:6010D	GELC	
XC4scr	22	28	03/19/2004	3.74	68	43.4	28	Mortandad Canyon	Regional	R-16 S4	1237.0	07/21/2022	REG	F	INIT	Metals	Manganese	Mn	36.5	0.8	Reg-Scr_95	12.1	3	2.00	µg/L	1.00		NQ	NQ	SW-846:6010D	GELC	
XC4scr	22	28	03/19/2004	205	613	227.5	28	Mortandad Canyon	Regional	R-16 S4	1237.0	07/21/2022	REG	F	INIT	Metals	Strontium	Sr	239	1.1	Reg-Scr_95	74.4	3.2	1.00	µg/L	1.00		NQ	NQ	SW-846:6010D	GELC	