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

EMLA-23-BF63-2-1

November 23, 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 November 2022

References:
1. 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.
2. Newport News Nuclear BWXT-Los Alamos, LLC, February 2020. "Westbay Well Reconfiguration Completion Report for R-31," Newport News Nuclear BWXT-Los Alamos, LLC, document EM2020-0023, Los Alamos, New Mexico

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 November 10, 2022, to review groundwater data loaded or released in the 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 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" (Reference 1). 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 (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 instance of a constituent was detected at a concentration that exceeded the NMWQCC groundwater standard or EPA MCL at one location where that 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). EM-LA notified NMED orally, within one business day of the review of the analytical data that showed detection of the contaminant, on November 14**,** 2022 (per Section XXVI.C of the Consent Order).

Analysis of an unfiltered water sample collected from R-31 screen 3 on September 9, 2022, resulted in the measurement of one constituent at a value exceeding its screening level value. Iron was measured at 1290 µg/L, exceeding the 1000-µg/L NMWQCC groundwater standard. As described in the next paragraph, it is probable that the value of iron in the sample is biased high (in comparison to the ambient aquifer).

R-31 initially employed a Westbay sampling system that was designed to sample the groundwater within a screened interval in real time. Results using this system were assessed as unrepresentative of the aquifer (e.g., concentrations of metals such as iron and manganese were elevated). Starting in late 2019 and finishing in January 2020, the well was rehabilitated and reconfigured. The Westbay system was removed, screen 5 was plugged and abandoned, and screens 3 and 4 were retrofitted with a purgeable Baski two-screen sampling system to obtain groundwater samples that would be more representative of the aquifer (Reference 2). While the sampling system upgrade has resulted in samples with lower metals concentrations, nonetheless concentrations remain elevated relative to expected saturation conditions. Extended purge results have also suggested that the recent iron values probably represent a near-well reducing condition given that concentrations of iron and other metals fall as purging progresses. Recent results have been qualified as RC (i.e., probable reducing condition).

Evaluation of well trends is ongoing and includes identifying the relationship between purging volumes and iron concentrations and the representativeness of water quality samples.

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,

For M Lee Bishop

Digitally signed by For M Lee Bishop
Date: 2022.11.18 16:42:53 -07'00'

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 November 2022 that Meet Notification Requirements (EM2022-0860)

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
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SUMMARY OF GROUNDWATER DATA REVIEWED IN NOVEMBER 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 (N3B 2021, 701672) 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 10-22 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 10-22 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" (IR) (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 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 IR. 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" (Risk Assessment Guidance) (NMED 2022, 702141).

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

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 IR.

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, 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 IR

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 IR

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 SCRN LVL—New Mexico Environment Department Table A-1 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

RC—probable reducing condition. A near-well condition likely affects some sample water quality parameter values from those of upgradient ambient water.

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-trinitroxylene

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.

HE4f (validation reason code)—There is evidence of cross-contamination.

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.

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

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.

SV12a—The laboratory control sample percent recovery is less than the lower acceptance limit and greater than or equal to the rejection limit.

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.

REFERENCES

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), September 2021. "Interim Facility-Wide Groundwater Monitoring Plan for the 2022 Monitoring Year, October 2021–September 2022, Revision 1," Newport News Nuclear BWXT-Los Alamos, LLC, document EM2021-0535, Los Alamos, New Mexico. (N3B 2021, 701672)

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 10-22 Groundwater Report

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Canyon	Zone	Location	Screen Depth	Start Date	Fld QC Type Code	Fld Prep Code	Lab Sample Type Code	Analy Suite Code	Analyte Description	Analyte	Std Result	Result/Median	LVL Type/Risk Code	Screen Level	Exceedance Ratio	Std MDL	Std UOM	Dilution Factor	Lab Qualifier	Validation Qualifier	Validation Reason Code	Analy Meth Code	Lab Code	Comment
C1	12	14	08/04/2006	0.34	0.34	0.34	1	Upper Los Alamos Canyon	Intermediate	LAOI(a)-1.1	295.2	09/14/2022	REG	UF	INIT	SVOC	Bis(2-ethylhexyl)phthalate	117-81-7	0.340	1	EPA MCL	6	0.1	0.300	µg/L	1.00	J	J	J_LAB	SW-846:8270E	GELC	
C1	18	23	05/19/2010	10.4	10.4	10.4	1	Water Canyon	Regional	R-30	1140.0	09/08/2022	REG	UF	INIT	SVOC	Benzoic Acid	65-85-0	10.4	1	EPA TAP SCRN LVL	75000	0	5.94	µg/L	1.00	J	J	J_LAB	SW-846:8270E	GELC	
C1	14	16	02/25/2004	1.62	1.62	1.62	1	Upper Los Alamos Canyon	Regional	R-8 S1	705.3	09/07/2022	REG	UF	INIT	SVOC	Bis(2-ethylhexyl)phthalate	117-81-7	1.62	1	EPA MCL	6	0.3	0.289	µg/L	1.00		NQ	NQ	SW-846:8270E	GELC	
C1	14	16	05/21/2009	14.7	15.1	14.9	2	Upper Los Alamos Canyon	Intermediate	TA-53i	600.0	09/13/2022	REG	UF	INIT	SVOC	Benzoic Acid	65-85-0	14.7	1	EPA TAP SCRN LVL	75000	0	6.00	µg/L	1.00	J	J-	SV12a	SW-846:8270E	GELC	
C1	14	16	05/21/2009	14.7	15.1	14.9	2	Upper Los Alamos Canyon	Intermediate	TA-53i	600.0	09/13/2022	FD	UF	INIT	SVOC	Benzoic Acid	65-85-0	15.1	1	EPA TAP SCRN LVL	75000	0	5.99	µg/L	1.00	J	J-	SV12a	SW-846:8270E	GELC	
C2	23	23	07/26/2006	0.0415	0.301	0.1275	20	Upper Los Alamos Canyon	Intermediate	LAOI-3.2a	181.4	09/21/2022	REG	F	INIT	Geninorg	Fluoride	F(-1)	0.301	2.4	LANL Int BG LVL	0.234	1.3	0.0330	mg/L	1.00		NQ	NQ	EPA:300.0	GELC	
C2	22	22	07/26/2006	0.551	4.37	0.8	17	Upper Los Alamos Canyon	Intermediate	LAOI-3.2a	181.4	09/21/2022	REG	F	INIT	Metals	Nickel	Ni	4.37	5.5	LANL Int BG LVL	3.65	1.2	0.600	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
C2	22	24	04/12/2007	0.269	4.47	0.3015	24	Upper Los Alamos Canyon	Regional	R-6	1205.0	09/06/2022	REG	F	INIT	LCMS/MS	Perchlorate	ClO4	4.47	14.8	LANL Reg BG LVL	0.414	10.8	0.0500	µg/L	1.00		NQ	NQ	SW-846:6850	GELC	
C2	9	10	05/30/2001	54.2	120	68.3	10	Upper Los Alamos Canyon	Regional	R-7 S3	895.5	09/15/2022	FD	F	INIT	Geninorg	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	73.0	1.1	LANL Reg BG LVL	72.9	1	1.45	mg/L	1.00		NQ	NQ	EPA:310.1	GELC	
C4	80	95	01/10/2000	145	1110	192	89	Water Canyon	Intermediate	Burning Ground Spring	0.0	08/13/2022	REG	F	RE	Metals	Barium	Ba	716	3.7	LANL Int BG LVL	13.5	53	1.00	µg/L	1.00		NQ	NQ	SW-846:6010D	GELC	
C4	40	48	08/26/2005	87.5	183	117.5	48	Water Canyon	Intermediate	Burning Ground Spring	0.0	08/13/2022	REG	F	RE	Metals	Strontium	Sr	168	1.4	LANL Int BG LVL	59.6	2.8	1.00	µg/L	1.00		NQ	NQ	SW-846:6010D	GELC	
C4	22	23	11/15/2005	34.7	49.3	40.9	23	Upper Los Alamos Canyon	Intermediate	LAOI-3.2	153.3	09/12/2022	REG	F	INIT	Metals	Barium	Ba	34.7	0.8	LANL Int BG LVL	13.5	2.6	1.00	µg/L	1.00		NQ	NQ	SW-846:6010D	GELC	
C4	22	23	11/15/2005	17.8	28.6	23.5	23	Upper Los Alamos Canyon	Intermediate	LAOI-3.2	153.3	09/12/2022	REG	F	INIT	Metals	Calcium	Ca	27.4	1.2	LANL Int BG LVL	10.7	2.6	0.0500	mg/L	1.00		NQ	NQ	SW-846:6010D	GELC	
C4	24	25	11/15/2005	5.15	34.7	20.4	25	Upper Los Alamos Canyon	Intermediate	LAOI-3.2	153.3	09/12/2022	REG	F	INIT	Geninorg	Chloride	Cl(-1)	34.7	1.7	LANL Int BG LVL	3.11	11.2	0.335	mg/L	5.00		NQ	NQ	EPA:300.0	GELC	
C4	22	23	11/15/2005	64	106	86.3	23	Upper Los Alamos Canyon	Intermediate	LAOI-3.2	153.3	09/12/2022	REG	F	INIT	Geninorg	Hardness	Hardness	103	1.2	LANL Int BG LVL	37.8	2.7	0.453	mg/L	1.00		NQ	NQ	SM:A2340B	GELC	
C4	22	23	11/15/2005	3.81	8.44	6.6	23	Upper Los Alamos Canyon	Intermediate	LAOI-3.2	153.3	09/12/2022	REG	F	INIT	Metals	Magnesium	Mg	8.44	1.3	LANL Int BG LVL	3.14	2.7	0.11	mg/L	1.00		NQ	NQ	SW-846:6010D	GELC	
C4	24	25	11/15/2005	1.17	4.48	2.15	25	Upper Los Alamos Canyon	Intermediate	LAOI-3.2	153.3	09/12/2022	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	1.17	0.5	LANL Int BG LVL	0.459	2.5	0.0850	mg/L	5.00		NQ	NQ	EPA:353.2	GELC	
C4	20	21	04/19/2007	1.26	7.63	4.63	21	Upper Los Alamos Canyon	Intermediate	LAOI-3.2	153.3	09/12/2022	REG	F	INIT	LCMS/MS	Perchlorate	ClO4	1.26	0.3	LANL Int BG LVL	0.27	4.7	0.0500	µg/L	1.00		NQ	NQ	SW-846:6850	GELC	

Table 1: NMED 10-22 Groundwater Report

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Canyon	Zone	Location	Screen Depth	Start Date	Fld QC Type Code	Fld Prep Code	Lab Sample Type Code	Analy Suite Code	Analyte Description	Analyte	Std Result	Result/Median	LVL Type/Risk Code	Screen Level	Exceedance Ratio	Std MDL	Std UOM	Dilution Factor	Lab Qualifier	Validation Qualifier	Validation Reason Code	Analy Meth Code	Lab Code	Comment
C4	22	23	11/15/2005	5.36	8.41	7.47	23	Upper Los Alamos Canyon	Intermediate	LAOI-3.2	153.3	09/12/2022	REG	F	INIT	Metals	Potassium	K	7.99	1.1	LANL Int BG LVL	2.35	3.4	0.0500	mg/L	1.00		NQ	NQ	SW-846:6010D	GELC	
C4	22	23	11/15/2005	98.1	247	127	23	Upper Los Alamos Canyon	Intermediate	LAOI-3.2	153.3	09/12/2022	REG	F	INIT	Metals	Strontium	Sr	143	1.1	LANL Int BG LVL	59.6	2.4	1.00	µg/L	1.00		NQ	NQ	SW-846:6010D	GELC	
C4	24	25	11/15/2005	3.66	33.9	9.01	25	Upper Los Alamos Canyon	Intermediate	LAOI-3.2	153.3	09/12/2022	REG	F	INIT	Geninorg	Sulfate	SO4(-2)	18.0	2	LANL Int BG LVL	7.1	2.5	0.133	mg/L	1.00		NQ	NQ	EPA:300.0	GELC	
C4	22	22	07/26/2006	21.2	27.1	24.4	22	Upper Los Alamos Canyon	Intermediate	LAOI-3.2a	181.4	09/21/2022	REG	F	INIT	Metals	Calcium	Ca	26.4	1.1	LANL Int BG LVL	10.7	2.5	0.0500	mg/L	1.00		NQ	NQ	SW-846:6010D	GELC	
C4	23	23	07/26/2006	19.1	28.1	21.7	23	Upper Los Alamos Canyon	Intermediate	LAOI-3.2a	181.4	09/21/2022	REG	F	INIT	Geninorg	Chloride	Cl(-1)	28.1	1.3	LANL Int BG LVL	3.11	9	0.335	mg/L	5.00		NQ	NQ	EPA:300.0	GELC	
C4	22	22	07/26/2006	72.5	91.6	82.3	22	Upper Los Alamos Canyon	Intermediate	LAOI-3.2a	181.4	09/21/2022	REG	F	INIT	Geninorg	Hardness	Hardness	89.4	1.1	LANL Int BG LVL	37.8	2.4	0.453	mg/L	1.00		NQ	NQ	SM:A2340B	GELC	
C4	22	22	07/26/2006	0.406	23.1	3.75	13	Upper Los Alamos Canyon	Intermediate	LAOI-3.2a	181.4	09/21/2022	REG	F	INIT	Metals	Molybdenum	Mo	23.1	6.2	LANL Int BG LVL	2.9	8	0.200	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
C4	23	23	07/26/2006	1.36	3.03	1.78	23	Upper Los Alamos Canyon	Intermediate	LAOI-3.2a	181.4	09/21/2022	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	1.36	0.8	LANL Int BG LVL	0.459	3	0.0850	mg/L	5.00		NQ	NQ	EPA:353.2	GELC	
C4	21	21	02/16/2007	1.34	3.55	2.55	21	Upper Los Alamos Canyon	Intermediate	LAOI-3.2a	181.4	09/21/2022	REG	F	INIT	LCMS/ MS	Perchlorate	ClO4	1.34	0.5	LANL Int BG LVL	0.27	5	0.0500	µg/L	1.00		NQ	NQ	SW-846:6850	GELC	
C4	22	22	07/26/2006	9.09	10.8	10.05	22	Upper Los Alamos Canyon	Intermediate	LAOI-3.2a	181.4	09/21/2022	REG	F	INIT	Metals	Potassium	K	10.1	1	LANL Int BG LVL	2.35	4.3	0.0500	mg/L	1.00		NQ	NQ	SW-846:6010D	GELC	
C4	22	22	07/26/2006	127	171	152	22	Upper Los Alamos Canyon	Intermediate	LAOI-3.2a	181.4	09/21/2022	REG	F	INIT	Metals	Strontium	Sr	166	1.1	LANL Int BG LVL	59.6	2.8	1.00	µg/L	1.00		NQ	NQ	SW-846:6010D	GELC	
C4	23	23	07/26/2006	8.13	16.4	9.85	23	Upper Los Alamos Canyon	Intermediate	LAOI-3.2a	181.4	09/21/2022	REG	F	INIT	Geninorg	Sulfate	SO4(-2)	16.4	1.7	LANL Int BG LVL	7.1	2.3	0.133	mg/L	1.00		J+	l4g	EPA:300.0	GELC	
C4	23	28	05/09/2006	3.56	38.3	22.5	28	Upper Los Alamos Canyon	Intermediate	LAOI-7	240.0	09/23/2022	REG	F	INIT	Geninorg	Chloride	Cl(-1)	27.6	1.2	LANL Int BG LVL	3.11	8.9	0.335	mg/L	5.00		NQ	NQ	EPA:300.0	GELC	
C4	22	27	05/09/2006	5.8	8.91	6.78	27	Upper Los Alamos Canyon	Intermediate	LAOI-7	240.0	09/23/2022	REG	F	INIT	Metals	Magnesium	Mg	6.86	1	LANL Int BG LVL	3.14	2.2	0.11	mg/L	1.00		NQ	NQ	SW-846:6010D	GELC	
C4	20	22	02/15/2007	0.522	0.856	0.6775	22	Upper Los Alamos Canyon	Intermediate	LAOI-7	240.0	09/23/2022	REG	F	INIT	LCMS/ MS	Perchlorate	ClO4	0.565	0.8	LANL Int BG LVL	0.27	2.1	0.0500	µg/L	1.00		NQ	NQ	SW-846:6850	GELC	
C4	22	27	05/09/2006	4.55	5.68	4.99	27	Upper Los Alamos Canyon	Intermediate	LAOI-7	240.0	09/23/2022	REG	F	INIT	Metals	Potassium	K	5.14	1	LANL Int BG LVL	2.35	2.2	0.0500	mg/L	1.00		NQ	NQ	SW-846:6010D	GELC	
C4	99	119	05/17/2005	2.27	7.43	5.53	119	Sandia Canyon	Regional	R-11	855.0	09/06/2022	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	6.90	1.2	LANL Reg BG LVL	0.769	9	0.425	mg/L	25.0		NQ	NQ	EPA:353.2	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	Fld QC Type Code	Fld Prep Code	Lab Sample Type Code	Analy Suite Code	Analyte Description	Analyte	Std Result	Result/Median	LVL Type/Risk Code	Screen Level	Exceedance Ratio	Std MDL	Std UOM	Dilution Factor	Lab Qualifier	Validation Qualifier	Validation Reason Code	Analy Meth Code	Lab Code	Comment
C4	99	119	05/17/2005	5.95	20.2	9.56	119	Sandia Canyon	Regional	R-11	855.0	09/06/2022	REG	F	INIT	Geninorg	Sulfate	SO4(-2)	9.44	1	LANL Reg BG LVL	4.59	2.1	0.133	mg/L	1.00		NQ	NQ	EPA:300.0	GELC	
C4	87	100	08/30/2007	68	408	348	100	Sandia Canyon	Regional	R-35a	1013.1	09/16/2022	REG	F	INIT	Metals	Barium	Ba	339	1	LANL Reg BG LVL	38.1	8.9	1.00	µg/L	1.00		NQ	NQ	SW-846:6010D	GELC	
C4	86	100	08/30/2007	5.97	7.31	6.58	100	Sandia Canyon	Regional	R-35a	1013.1	09/16/2022	REG	F	INIT	Geninorg	Chloride	Cl(-1)	6.50	1	LANL Reg BG LVL	2.7	2.4	0.0670	mg/L	1.00		NQ	NQ	EPA:300.0	GELC	
C4	87	100	08/30/2007	1.2	28.4	8.25	99	Sandia Canyon	Regional	R-35a	1013.1	09/16/2022	REG	F	INIT	Metals	Nickel	Ni	28.4	3.4	LANL Reg BG LVL	2.9	9.8	0.600	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
C4	89	94	02/17/2009	1.99	21.6	12.7	94	Mortandad Canyon	Regional	R-44 S1	895.0	09/15/2022	FD	F	INIT	Geninorg	Chloride	Cl(-1)	21.1	1.7	LANL Reg BG LVL	2.7	7.8	0.670	mg/L	10.0		J+	I4g	EPA:300.0	GELC	
C4	89	94	02/17/2009	1.99	21.6	12.7	94	Mortandad Canyon	Regional	R-44 S1	895.0	09/15/2022	REG	F	INIT	Geninorg	Chloride	Cl(-1)	21.2	1.7	LANL Reg BG LVL	2.7	7.9	0.670	mg/L	10.0		J+	I4g	EPA:300.0	GELC	
C4	89	94	02/17/2009	0.536	109	33.3	67	Mortandad Canyon	Regional	R-44 S1	895.0	09/15/2022	FD	F	INIT	Metals	Nickel	Ni	42.4	1.3	LANL Reg BG LVL	2.9	14.6	0.600	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
C4	89	94	02/17/2009	0.536	109	33.3	67	Mortandad Canyon	Regional	R-44 S1	895.0	09/15/2022	REG	F	INIT	Metals	Nickel	Ni	43.9	1.3	LANL Reg BG LVL	2.9	15.1	0.600	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
C4	89	94	02/17/2009	0.123	3.86	2.08	93	Mortandad Canyon	Regional	R-44 S1	895.0	09/15/2022	FD	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.83	1.4	LANL Reg BG LVL	0.769	3.7	0.0850	mg/L	5.00		NQ	NQ	EPA:353.2	GELC	
C4	89	94	02/17/2009	0.123	3.86	2.08	93	Mortandad Canyon	Regional	R-44 S1	895.0	09/15/2022	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.85	1.4	LANL Reg BG LVL	0.769	3.7	0.0850	mg/L	5.00		NQ	NQ	EPA:353.2	GELC	
C4	89	94	02/17/2009	2.76	21.4	12.55	94	Mortandad Canyon	Regional	R-44 S1	895.0	09/15/2022	FD	F	INIT	Geninorg	Sulfate	SO4(-2)	21.3	1.7	LANL Reg BG LVL	4.59	4.6	1.33	mg/L	10.0		J+	I4g	EPA:300.0	GELC	
C4	89	94	02/17/2009	2.76	21.4	12.55	94	Mortandad Canyon	Regional	R-44 S1	895.0	09/15/2022	REG	F	INIT	Geninorg	Sulfate	SO4(-2)	21.4	1.7	LANL Reg BG LVL	4.59	4.7	1.33	mg/L	10.0		J+	I4g	EPA:300.0	GELC	
C4	87	93	02/28/2009	3	21.5	5.61	93	Mortandad Canyon	Regional	R-45 S1	880.0	09/07/2022	REG	F	INIT	Geninorg	Chloride	Cl(-1)	20.4	3.6	LANL Reg BG LVL	2.7	7.6	0.335	mg/L	5.00		NQ	NQ	EPA:300.0	GELC	
C4	87	93	02/28/2009	0.535	13.8	1.275	78	Mortandad Canyon	Regional	R-45 S1	880.0	09/07/2022	REG	F	INIT	Metals	Nickel	Ni	12.9	10.1	LANL Reg BG LVL	2.9	4.4	0.600	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
C4	87	93	02/28/2009	0.256	3.47	2.84	93	Mortandad Canyon	Regional	R-45 S1	880.0	09/07/2022	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.97	1	LANL Reg BG LVL	0.769	3.9	0.0850	mg/L	5.00		NQ	NQ	EPA:353.2	GELC	
C4	87	93	02/28/2009	4.1	21.4	8.47	93	Mortandad Canyon	Regional	R-45 S1	880.0	09/07/2022	REG	F	INIT	Geninorg	Sulfate	SO4(-2)	19.5	2.3	LANL Reg BG LVL	4.59	4.2	0.665	mg/L	5.00		NQ	NQ	EPA:300.0	GELC	
C4	86	91	03/05/2009	2.74	8.15	4.79	91	Mortandad Canyon	Regional	R-45 S2	974.9	09/07/2022	REG	F	INIT	Geninorg	Chloride	Cl(-1)	8.15	1.7	LANL Reg BG LVL	2.7	3	0.0670	mg/L	1.00		NQ	NQ	EPA:300.0	GELC	
C4	86	96	03/05/2009	6.1	67.6	29	95	Mortandad Canyon	Regional	R-45 S2	974.9	09/07/2022	REG	F	INIT	Metals	Chromium	Cr	67.6	2.3	LANL Reg BG LVL	7.48	9	3.00	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
C4	86	91	03/05/2009	3.37	12.4	5.9	91	Mortandad Canyon	Regional	R-45 S2	974.9	09/07/2022	REG	F	INIT	Geninorg	Sulfate	SO4(-2)	10.2	1.7	LANL Reg BG LVL	4.59	2.2	0.133	mg/L	1.00		NQ	NQ	EPA:300.0	GELC	
C4	16	16	02/23/2004	183	204	193	16	Pueblo Canyon	Intermediate	R-5 S2	372.8	09/19/2022	REG	F	INIT	Metals	Barium	Ba	183	0.9	LANL Int BG LVL	13.5	13.6	1.00	µg/L	1.00		NQ	NQ	SW-846:6010D	GELC	
C4	16	16	02/23/2004	27.9	31.9	30.65	16	Pueblo Canyon	Intermediate	R-5 S2	372.8	09/19/2022	REG	F	INIT	Metals	Calcium	Ca	29.2	1	LANL Int BG LVL	10.7	2.7	0.0500	mg/L	1.00		NQ	NQ	SW-846:6010D	GELC	
C4	19	19	02/23/2004	6.72	8.62	7.37	19	Pueblo Canyon	Intermediate	R-5 S2	372.8	09/19/2022	REG	F	INIT	Geninorg	Chloride	Cl(-1)	7.99	1.1	LANL Int BG LVL	3.11	2.6	0.0670	mg/L	1.00		NQ	NQ	EPA:300.0	GELC	
C4	19	19	02/23/2004	0.992	1.33	1.08	19	Pueblo Canyon	Intermediate	R-5 S2	372.8	09/19/2022	REG	F	INIT	Geninorg	Fluoride	F(-1)	1.29	1.2	LANL Int BG LVL	0.234	5.5	0.0330	mg/L	1.00		NQ	NQ	EPA:300.0	GELC	
C4	13	13	07/25/2006	80.7	92.4	88.1	13	Pueblo Canyon	Intermediate	R-5 S2	372.8	09/19/2022	REG	F	INIT	Geninorg	Hardness	Hardness	85.1	1	LANL Int BG LVL	37.8	2.3	0.453	mg/L	1.00		NQ	NQ	SM:A2340B	GELC	

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C4	20	20	02/23/2004	2.31	3.28	2.855	20	Pueblo Canyon	Intermediate	R-5 S2	372.8	09/19/2022	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.88	1	LANL Int BG LVL	0.459	6.3	0.170	mg/L	10.0		NQ	NQ	EPA:353.2	GELC	
C4	15	15	04/17/2007	1.24	2.35	1.39	15	Pueblo Canyon	Intermediate	R-5 S2	372.8	09/19/2022	REG	F	INIT	LCMS/ MS	Perchlorate	ClO4	1.85	1.3	LANL Int BG LVL	0.27	6.9	0.0500	µg/L	1.00	H	J-	PE9	SW-846:6850	GELC	
C4	16	16	02/23/2004	289	329	309	16	Pueblo Canyon	Intermediate	R-5 S2	372.8	09/19/2022	REG	F	INIT	Metals	Strontium	Sr	308	1	LANL Int BG LVL	59.6	5.2	1.00	µg/L	1.00		NQ	NQ	SW-846:6010D	GELC	
C4	16	16	02/23/2004	2.36	2.9	2.69	16	Pueblo Canyon	Intermediate	R-5 S2	372.8	09/19/2022	REG	F	INIT	Metals	Uranium	U	2.51	0.9	LANL Int BG LVL	0.992	2.5	0.0670	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
C4	88	97	03/06/2010	4.68	22.4	10.7	97	Mortandad Canyon	Regional	R-50 S1	1077.0	09/13/2022	REG	F	INIT	Geninorg	Chloride	Cl(-1)	21.2	2	LANL Reg BG LVL	2.7	7.9	0.335	mg/L	5.00		NQ	NQ	EPA:300.0	GELC	
C4	89	98	03/06/2010	1.51	25.6	6.42	98	Mortandad Canyon	Regional	R-50 S1	1077.0	09/13/2022	REG	F	INIT	Metals	Nickel	Ni	8.17	1.3	LANL Reg BG LVL	2.9	2.8	0.600	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
C4	89	99	03/06/2010	0.398	3.21	2.28	99	Mortandad Canyon	Regional	R-50 S1	1077.0	09/13/2022	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.78	1.2	LANL Reg BG LVL	0.769	3.6	0.0850	mg/L	5.00		NQ	NQ	EPA:353.2	GELC	
C4	88	97	03/06/2010	7.22	21.5	15.3	97	Mortandad Canyon	Regional	R-50 S1	1077.0	09/13/2022	REG	F	INIT	Geninorg	Sulfate	SO4(-2)	19.9	1.3	LANL Reg BG LVL	4.59	4.3	0.665	mg/L	5.00		NQ	NQ	EPA:300.0	GELC	
C4	73	84	05/20/2011	2.03	51	26	83	Mortandad Canyon	Regional	R-61 S1	1125.0	09/12/2022	REG	F	INIT	Metals	Chromium	Cr	39.9	1.5	LANL Reg BG LVL	7.48	5.3	3.00	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
C4	73	84	05/20/2011	0.427	3.3	2.31	84	Mortandad Canyon	Regional	R-61 S1	1125.0	09/12/2022	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.35	1	LANL Reg BG LVL	0.769	3.1	0.170	mg/L	10.0		NQ	NQ	EPA:353.2	GELC	
C4	72	83	05/20/2011	2.96	17	12.3	83	Mortandad Canyon	Regional	R-61 S1	1125.0	09/12/2022	REG	F	INIT	LCMS/ MS	Perchlorate	ClO4	11.3	0.9	LANL Reg BG LVL	0.414	27.3	0.100	µg/L	2.00		NQ	NQ	SW-846:6850	GELC	
C4	25	32	08/24/2005	10.4	18	16.55	32	Upper Los Alamos Canyon	Intermediate	R-6i	602.0	09/06/2022	REG	F	INIT	Geninorg	Chloride	Cl(-1)	10.4	0.6	LANL Int BG LVL	3.11	3.3	0.134	mg/L	2.00		J+	I6b	EPA:300.0	GELC	
C4	25	32	08/24/2005	0.575	1.2	0.708	32	Upper Los Alamos Canyon	Intermediate	R-6i	602.0	09/06/2022	REG	F	INIT	Geninorg	Fluoride	F(-1)	1.20	1.7	LANL Int BG LVL	0.234	5.1	0.0330	mg/L	1.00		NQ	NQ	EPA:300.0	GELC	
C4	25	32	08/24/2005	1.99	5.06	3.76	32	Upper Los Alamos Canyon	Intermediate	R-6i	602.0	09/06/2022	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	1.99	0.5	LANL Int BG LVL	0.459	4.3	0.0850	mg/L	5.00		NQ	NQ	EPA:353.2	GELC	
C4	20	27	04/12/2007	2.81	7.51	6.26	27	Upper Los Alamos Canyon	Intermediate	R-6i	602.0	09/06/2022	REG	F	INIT	LCMS/ MS	Perchlorate	ClO4	2.81	0.4	LANL Int BG LVL	0.27	10.4	0.0500	µg/L	1.00		NQ	NQ	SW-846:6850	GELC	
C4	26	29	08/04/2020	2.13	2.92	2.47	29	Mortandad Canyon	Regional	R-70 S1[a]	963.0	09/19/2022	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.33	0.9	LANL Reg BG LVL	0.769	3	0.170	mg/L	10.0		NQ	NQ	EPA:353.2	GELC	
C4	26	28	08/04/2020	11.1	19.3	15.2	28	Mortandad Canyon	Regional	R-70 S2[a]	1048.0	09/19/2022	REG	F	INIT	Geninorg	Chloride	Cl(-1)	13.2	0.9	LANL Reg BG LVL	2.7	4.9	0.134	mg/L	2.00		J+	I6b	EPA:300.0	GELC	
C4	26	28	08/04/2020	131	272	198	28	Mortandad Canyon	Regional	R-70 S2[a]	1048.0	09/19/2022	REG	F	INIT	Metals	Chromium	Cr	174	0.9	LANL Reg BG LVL	7.48	23.3	3.00	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
C4	26	28	08/04/2020	2.59	4.06	3.625	28	Mortandad Canyon	Regional	R-70 S2[a]	1048.0	09/19/2022	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	3.33	0.9	LANL Reg BG LVL	0.769	4.3	0.170	mg/L	10.0		NQ	NQ	EPA:353.2	GELC	
C4	26	28	08/04/2020	17.5	32.6	24.85	28	Mortandad Canyon	Regional	R-70 S2[a]	1048.0	09/19/2022	REG	F	INIT	Geninorg	Sulfate	SO4(-2)	19.8	0.8	LANL Reg BG LVL	4.59	4.3	0.266	mg/L	2.00		NQ	NQ	EPA:300.0	GELC	
C4	22	29	02/28/2000	10.1	209	179	29	Upper Los Alamos Canyon	Regional	R-9	683.0	09/20/2022	REG	F	INIT	Metals	Barium	Ba	164	0.9	LANL Reg BG LVL	38.1	4.3	1.00	µg/L	1.00		NQ	NQ	SW-846:6010D	GELC	

Table 1: NMED 10-22 Groundwater Report

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Canyon	Zone	Location	Screen Depth	Start Date	Fld QC Type Code	Fld Prep Code	Lab Sample Type Code	Analy Suite Code	Analyte Description	Analyte	Std Result	Result/Median	LVL Type/Risk Code	Screen Level	Exceedance Ratio	Std MDL	Std UOM	Dilution Factor	Lab Qualifier	Validation Qualifier	Validation Reason Code	Analy Meth Code	Lab Code	Comment
C4	23	32	02/28/2000	5.59	7.4	6.025	32	Upper Los Alamos Canyon	Regional	R-9	683.0	09/20/2022	REG	F	INIT	Geninorg	Chloride	Cl(-1)	5.63	0.9	LANL Reg BG LVL	2.7	2.1	0.0670	mg/L	1.00		NQ	NQ	EPA:300.0	GELC	
C4	17	18	09/14/2000	35.1	72.6	49	18	Upper Los Alamos Canyon	Intermediate	R-9i S1	189.1	09/20/2022	REG	F	INIT	Metals	Barium	Ba	35.1	0.7	LANL Int BG LVL	13.5	2.6	1.00	µg/L	1.00		NQ	NQ	SW-846:6010D	GELC	
C4	19	21	09/14/2000	24	46.4	39.4	20	Upper Los Alamos Canyon	Intermediate	R-9i S1	189.1	09/20/2022	REG	F	INIT	Geninorg	Chloride	Cl(-1)	39.6	1	LANL Int BG LVL	3.11	12.7	0.670	mg/L	10.0		NQ	NQ	EPA:300.0	GELC	
C4	13	14	08/29/2008	74.5	96.9	81.95	14	Upper Los Alamos Canyon	Intermediate	R-9i S1	189.1	09/20/2022	REG	F	INIT	Geninorg	Hardness	Hardness	77.3	0.9	LANL Int BG LVL	37.8	2	0.453	mg/L	1.00		NQ	NQ	SM:A2340B	GELC	
C4	17	18	09/14/2000	5.6	8.84	7.07	18	Upper Los Alamos Canyon	Intermediate	R-9i S1	189.1	09/20/2022	REG	F	INIT	Metals	Magnesium	Mg	6.89	1	LANL Int BG LVL	3.14	2.2	0.11	mg/L	1.00		NQ	NQ	SW-846:6010D	GELC	
C4	17	18	09/14/2000	7.18	21	9.005	18	Upper Los Alamos Canyon	Intermediate	R-9i S1	189.1	09/20/2022	REG	F	INIT	Metals	Molybdenum	Mo	7.29	0.8	LANL Int BG LVL	2.9	2.5	0.200	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
C4	17	18	09/14/2000	110	141	125.5	18	Upper Los Alamos Canyon	Intermediate	R-9i S1	189.1	09/20/2022	REG	F	INIT	Metals	Strontium	Sr	121	1	LANL Int BG LVL	59.6	2	1.00	µg/L	1.00		NQ	NQ	SW-846:6010D	GELC	
C4	16	20	05/21/2009	37.8	54.1	41.95	20	Upper Los Alamos Canyon	Intermediate	TA-53i	600.0	09/13/2022	FD	F	INIT	Metals	Barium	Ba	52.1	1.2	LANL Int BG LVL	13.5	3.9	1.00	µg/L	1.00		NQ	NQ	SW-846:6010D	GELC	
C4	16	20	05/21/2009	37.8	54.1	41.95	20	Upper Los Alamos Canyon	Intermediate	TA-53i	600.0	09/13/2022	REG	F	INIT	Metals	Barium	Ba	54.0	1.3	LANL Int BG LVL	13.5	4	1.00	µg/L	1.00		NQ	NQ	SW-846:6010D	GELC	
C4	16	20	05/21/2009	32.5	50.7	38	20	Upper Los Alamos Canyon	Intermediate	TA-53i	600.0	09/13/2022	FD	F	INIT	Metals	Calcium	Ca	50.1	1.3	LANL Int BG LVL	10.7	4.7	0.0500	mg/L	1.00		NQ	NQ	SW-846:6010D	GELC	
C4	16	20	05/21/2009	32.5	50.7	38	20	Upper Los Alamos Canyon	Intermediate	TA-53i	600.0	09/13/2022	REG	F	INIT	Metals	Calcium	Ca	50.7	1.3	LANL Int BG LVL	10.7	4.7	0.0500	mg/L	1.00		NQ	NQ	SW-846:6010D	GELC	
C4	17	21	05/21/2009	25.3	40.6	35.6	21	Upper Los Alamos Canyon	Intermediate	TA-53i	600.0	09/13/2022	FD	F	INIT	Geninorg	Chloride	Cl(-1)	37.8	1.1	LANL Int BG LVL	3.11	12.2	0.670	mg/L	10.0		NQ	NQ	EPA:300.0	GELC	
C4	17	21	05/21/2009	25.3	40.6	35.6	21	Upper Los Alamos Canyon	Intermediate	TA-53i	600.0	09/13/2022	REG	F	INIT	Geninorg	Chloride	Cl(-1)	37.1	1	LANL Int BG LVL	3.11	11.9	0.670	mg/L	10.0		NQ	NQ	EPA:300.0	GELC	
C4	16	20	05/21/2009	109	174	127.5	20	Upper Los Alamos Canyon	Intermediate	TA-53i	600.0	09/13/2022	FD	F	INIT	Geninorg	Hardness	Hardness	172	1.3	LANL Int BG LVL	37.8	4.6	0.453	mg/L	1.00		NQ	NQ	SM:A2340B	GELC	
C4	16	20	05/21/2009	109	174	127.5	20	Upper Los Alamos Canyon	Intermediate	TA-53i	600.0	09/13/2022	REG	F	INIT	Geninorg	Hardness	Hardness	174	1.4	LANL Int BG LVL	37.8	4.6	0.453	mg/L	1.00		NQ	NQ	SM:A2340B	GELC	
C4	16	20	05/21/2009	6.74	11.5	7.94	20	Upper Los Alamos Canyon	Intermediate	TA-53i	600.0	09/13/2022	FD	F	INIT	Metals	Magnesium	Mg	11.3	1.4	LANL Int BG LVL	3.14	3.6	0.11	mg/L	1.00		NQ	NQ	SW-846:6010D	GELC	
C4	16	20	05/21/2009	6.74	11.5	7.94	20	Upper Los Alamos Canyon	Intermediate	TA-53i	600.0	09/13/2022	REG	F	INIT	Metals	Magnesium	Mg	11.5	1.4	LANL Int BG LVL	3.14	3.7	0.11	mg/L	1.00		NQ	NQ	SW-846:6010D	GELC	

Table 1: NMED 10-22 Groundwater Report

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Canyon	Zone	Location	Screen Depth	Start Date	Fld QC Type Code	Fld Prep Code	Lab Sample Type Code	Analy Suite Code	Analyte Description	Analyte	Std Result	Result/Median	LVL Type/Risk Code	Screen Level	Exceedance Ratio	Std MDL	Std UOM	Dilution Factor	Lab Qualifier	Validation Qualifier	Validation Reason Code	Analy Meth Code	Lab Code	Comment
C4	16	20	05/21/2009	76.9	175	131.5	20	Upper Los Alamos Canyon	Intermediate	TA-53i	600.0	09/13/2022	FD	F	INIT	Metals	Molybdenum	Mo	151	1.1	LANL Int BG LVL	2.9	52.1	0.200	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
C4	16	20	05/21/2009	76.9	175	131.5	20	Upper Los Alamos Canyon	Intermediate	TA-53i	600.0	09/13/2022	REG	F	INIT	Metals	Molybdenum	Mo	146	1.1	LANL Int BG LVL	2.9	50.3	0.200	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
C4	17	21	05/21/2009	0.96	1.45	1.09	21	Upper Los Alamos Canyon	Intermediate	TA-53i	600.0	09/13/2022	FD	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	1.29	1.2	LANL Int BG LVL	0.459	2.8	0.0850	mg/L	5.00		NQ	NQ	EPA:353.2	GELC	
C4	17	21	05/21/2009	0.96	1.45	1.09	21	Upper Los Alamos Canyon	Intermediate	TA-53i	600.0	09/13/2022	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	1.28	1.2	LANL Int BG LVL	0.459	2.8	0.0850	mg/L	5.00		NQ	NQ	EPA:353.2	GELC	
C4	16	20	05/21/2009	4.56	6.07	5.36	20	Upper Los Alamos Canyon	Intermediate	TA-53i	600.0	09/13/2022	FD	F	INIT	Metals	Potassium	K	5.79	1.1	LANL Int BG LVL	2.35	2.5	0.0500	mg/L	1.00		NQ	NQ	SW-846:6010D	GELC	
C4	16	20	05/21/2009	4.56	6.07	5.36	20	Upper Los Alamos Canyon	Intermediate	TA-53i	600.0	09/13/2022	REG	F	INIT	Metals	Potassium	K	5.74	1.1	LANL Int BG LVL	2.35	2.4	0.0500	mg/L	1.00		NQ	NQ	SW-846:6010D	GELC	
C4	16	20	05/21/2009	168	276	208	20	Upper Los Alamos Canyon	Intermediate	TA-53i	600.0	09/13/2022	FD	F	INIT	Metals	Strontium	Sr	268	1.3	LANL Int BG LVL	59.6	4.5	1.00	µg/L	1.00		NQ	NQ	SW-846:6010D	GELC	
C4	16	20	05/21/2009	168	276	208	20	Upper Los Alamos Canyon	Intermediate	TA-53i	600.0	09/13/2022	REG	F	INIT	Metals	Strontium	Sr	266	1.3	LANL Int BG LVL	59.6	4.5	1.00	µg/L	1.00		NQ	NQ	SW-846:6010D	GELC	
C4	17	21	05/21/2009	15.4	38.1	19.9	21	Upper Los Alamos Canyon	Intermediate	TA-53i	600.0	09/13/2022	FD	F	INIT	Geninorg	Sulfate	SO4(-2)	36.2	1.8	LANL Int BG LVL	7.1	5.1	1.33	mg/L	10.0		NQ	NQ	EPA:300.0	GELC	
C4	17	21	05/21/2009	15.4	38.1	19.9	21	Upper Los Alamos Canyon	Intermediate	TA-53i	600.0	09/13/2022	REG	F	INIT	Geninorg	Sulfate	SO4(-2)	35.6	1.8	LANL Int BG LVL	7.1	5	1.33	mg/L	10.0		NQ	NQ	EPA:300.0	GELC	
CA	10	12	12/16/2000	250	4170	766.5	12	Ancho Canyon	Regional	R-31 S3	666.3	9/9/2022	REG	F	INIT	Metals	Iron	Fe	1290	1.7	NM GW STD	1000	1.3	30.0	µg/L	1.00		NQ	NQ	SW-846:6010D	GELC	See note b.

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

[b] Value of sample likely biased high. Refer to "1-Day Notification" section above for further details.

Table 2: NMED 10-22 Groundwater Report Addendum

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Canyon	Zone	Location	Screen Depth	Start Date	Fld QC Type Code	Fld Prep Code	Lab Sample Type Code	Analy Suite Code	Analyte Description	Analyte	Std Result	Result/Median	LVL Type/Risk Code	Screen Level	Exceedance Ratio	Std MDL	Std UOM	Dilution Factor	Lab Qualifier	Validation Qualifier	Validation Reason Code	Analy Meth Code	Lab Code	Comment
XC2scr	22	22	07/26/2006	0.616	0.616	0.616	1	Upper Los Alamos Canyon	Intermediate	LAOI-3.2a	181.4	09/21/2022	REG	F	INIT	Metals	Lead	Pb	0.616	1	Int-Scr_95	0.5	1.2	0.500	µg/L	1.00	J	J	J_LAB	SW-846:6020B	GELC	
XC2scr	21	26	12/14/2000	1.45	1.45	1.45	1	Ancho Canyon	Regional	R-31 S4	826.6	09/09/2022	REG	F	INIT	Metals	Lead	Pb	1.45	1	Reg-Scr_95	0.5	2.9	0.500	µg/L	1.00	J	J	J_LAB	SW-846:6020B	GELC	
XC4scr	80	95	01/10/2000	3.6	8.51	5.55	91	Water Canyon	Intermediate	Burning Ground Spring	0.0	08/13/2022	REG	F	RE	Metals	Magnesium	Mg	7.22	1.3	Int-Scr_95	3	2.4	0.11	mg/L	1.00		NQ	NQ	SW-846:6010D	GELC	
XC4scr	24	25	11/15/2005	0.069	1.6	0.8275	16	Upper Los Alamos Canyon	Intermediate	LAOI-3.2	153.3	09/12/2022	REG	F	INIT	Geninorg	Bromide	Br(-1)	1.49	1.8	Int-Scr_95	0.0716	20.8	0.0670	mg/L	1.00		NQ	NQ	EPA:300.0	GELC	
XC4scr	22	23	11/15/2005	1.21	6.5	1.5	23	Upper Los Alamos Canyon	Intermediate	LAOI-3.2	153.3	09/12/2022	REG	F	INIT	Metals	Uranium	U	1.95	1.3	Int-Scr_95	0.614	3.2	0.0670	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
XC4scr	23	23	07/26/2006	0.162	1.64	0.454	23	Upper Los Alamos Canyon	Intermediate	LAOI-3.2a	181.4	09/21/2022	REG	F	INIT	Geninorg	Bromide	Br(-1)	1.64	3.6	Int-Scr_95	0.0716	22.9	0.0670	mg/L	1.00		NQ	NQ	EPA:300.0	GELC	
XC4scr	22	22	07/26/2006	1.1	2.1	1.585	22	Upper Los Alamos Canyon	Intermediate	LAOI-3.2a	181.4	09/21/2022	REG	F	INIT	Metals	Uranium	U	1.71	1.1	Int-Scr_95	0.614	2.8	0.0670	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
XC4scr	22	27	05/09/2006	20.7	29.7	23.8	27	Upper Los Alamos Canyon	Intermediate	LAOI-7	240.0	09/23/2022	REG	F	INIT	Metals	Barium	Ba	25.3	1.1	Int-Scr_95	11.96	2.1	1.00	µg/L	1.00		NQ	NQ	SW-846:6010D	GELC	
XC4scr	23	28	05/09/2006	0.088	0.242	0.136	21	Upper Los Alamos Canyon	Intermediate	LAOI-7	240.0	09/23/2022	REG	F	INIT	Geninorg	Bromide	Br(-1)	0.203	1.5	Int-Scr_95	0.0716	2.8	0.0670	mg/L	1.00		NQ	NQ	EPA:300.0	GELC	
XC4scr	10	12	12/16/2000	87.5	3500	105	12	Ancho Canyon	Regional	R-31 S3	666.3	09/09/2022	REG	F	INIT	Metals	Manganese	Mn	108	1	Reg-Scr_95	12.1	8.9	2.00	µg/L	1.00		NQ	NQ	SW-846:6010D	GELC	
XC4scr	10	12	12/16/2000	3.2	46.2	33.1	10	Ancho Canyon	Regional	R-31 S3	666.3	09/09/2022	REG	F	INIT	Metals	Zinc	Zn	36.2	1.1	Reg-Scr_95	14.4	2.5	3.30	µg/L	1.00		NQ	NQ	SW-846:6010D	GELC	
XC4scr	87	100	08/30/2007	137	199	169	100	Sandia Canyon	Regional	R-35a	1013.1	09/16/2022	REG	F	INIT	Metals	Strontium	Sr	167	1	Reg-Scr_95	74.4	2.2	1.00	µg/L	1.00		NQ	NQ	SW-846:6010D	GELC	
XC4scr	89	94	02/17/2009	0.0757	0.181	0.146	49	Mortandad Canyon	Regional	R-44 S1	895.0	09/15/2022	FD	F	INIT	Geninorg	Bromide	Br(-1)	0.150	1	Reg-Scr_95	0.067	2.2	0.0670	mg/L	1.00	J	J	J_LAB	EPA:300.0	GELC	
XC4scr	89	94	02/17/2009	0.0757	0.181	0.146	49	Mortandad Canyon	Regional	R-44 S1	895.0	09/15/2022	REG	F	INIT	Geninorg	Bromide	Br(-1)	0.149	1	Reg-Scr_95	0.067	2.2	0.0670	mg/L	1.00	J	J	J_LAB	EPA:300.0	GELC	
XC4scr	88	97	03/06/2010	0.0691	0.271	0.127	75	Mortandad Canyon	Regional	R-50 S1	1077.0	09/13/2022	REG	F	INIT	Geninorg	Bromide	Br(-1)	0.188	1.5	Reg-Scr_95	0.067	2.8	0.0670	mg/L	1.00	J	J	J_LAB	EPA:300.0	GELC	
XC4scr	73	84	05/20/2011	0.0531	11.8	0.393	80	Mortandad Canyon	Regional	R-61 S1	1125.0	09/12/2022	REG	F	INIT	Geninorg	Total Phosphate as Phosphorus	PO4-P	0.232	0.6	Reg-Scr_95	0.0822	2.8	0.0200	mg/L	1.00		J+	l4a	EPA:365.4	GELC	
XC4scr	22	29	02/28/2000	39	57.6	47.2	28	Upper Los Alamos Canyon	Regional	R-9	683.0	09/20/2022	REG	F	INIT	Metals	Boron	B	51.6	1.1	Reg-Scr_95	18.7	2.8	15.0	µg/L	1.00		NQ	NQ	SW-846:6010D	GELC	
XC4scr	22	29	02/28/2000	63.5	199	176	29	Upper Los Alamos Canyon	Regional	R-9	683.0	09/20/2022	REG	F	INIT	Metals	Strontium	Sr	183	1	Reg-Scr_95	74.4	2.5	1.00	µg/L	1.00		NQ	NQ	SW-846:6010D	GELC	
XC4scr	17	21	05/21/2009	0.894	2.52	1.8	21	Upper Los Alamos Canyon	Intermediate	TA-53i	600.0	09/13/2022	FD	F	INIT	Geninorg	Bromide	Br(-1)	2.44	1.4	Int-Scr_95	0.0716	34.1	0.0670	mg/L	1.00		NQ	NQ	EPA:300.0	GELC	
XC4scr	17	21	05/21/2009	0.894	2.52	1.8	21	Upper Los Alamos Canyon	Intermediate	TA-53i	600.0	09/13/2022	REG	F	INIT	Geninorg	Bromide	Br(-1)	2.47	1.4	Int-Scr_95	0.0716	34.5	0.0670	mg/L	1.00		NQ	NQ	EPA:300.0	GELC	
XC4scr	17	21	05/21/2009	0.523	0.68	0.625	21	Upper Los Alamos Canyon	Intermediate	TA-53i	600.0	09/13/2022	FD	F	INIT	LCMS/MS	Perchlorate	ClO4	0.532	0.9	Int-Scr_95	0.257	2.1	0.0500	µg/L	1.00		NQ	NQ	SW-846:6850	GELC	
XC4scr	17	21	05/21/2009	0.523	0.68	0.625	21	Upper Los Alamos Canyon	Intermediate	TA-53i	600.0	09/13/2022	REG	F	INIT	LCMS/MS	Perchlorate	ClO4	0.523	0.8	Int-Scr_95	0.257	2	0.0500	µg/L	1.00		NQ	NQ	SW-846:6850	GELC	
XC4scr	17	21	05/21/2009	217	307	242	21	Upper Los Alamos Canyon	Intermediate	TA-53i	600.0	09/13/2022	FD	F	INIT	Geninorg	Total Dissolved Solids	TDS	299	1.2	Int-Scr_95	135	2.2	2.38	mg/L	1.00		J	l10er	EPA:160.1	GELC	
XC4scr	17	21	05/21/2009	217	307	242	21	Upper Los Alamos Canyon	Intermediate	TA-53i	600.0	09/13/2022	REG	F	INIT	Geninorg	Total Dissolved Solids	TDS	294	1.2	Int-Scr_95	135	2.2	2.38	mg/L	1.00		J	l10er	EPA:160.1	GELC	

Table 2: NMED 10-22 Groundwater Report Addendum

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Canyon	Zone	Location	Screen Depth	Start Date	Fld QC Type Code	Fld Prep Code	Lab Sample Type Code	Analy Suite Code	Analyte Description	Analyte	Std Result	Result/Median	LVL Type/Risk Code	Screen Level	Exceedance Ratio	Std MDL	Std UOM	Dilution Factor	Lab Qualifier	Validation Qualifier	Validation Reason Code	Analy Meth Code	Lab Code	Comment
XC4scr	16	20	05/21/2009	0.777	2.03	0.977	20	Upper Los Alamos Canyon	Intermediate	TA-53i	600.0	09/13/2022	FD	F	INIT	Metals	Uranium	U	2.02	2.1	Int-Scr_95	0.614	3.3	0.0670	µg/L	1.00		J+	l4a	SW-846:6020B	GELC	
XC4scr	16	20	05/21/2009	0.777	2.03	0.977	20	Upper Los Alamos Canyon	Intermediate	TA-53i	600.0	09/13/2022	REG	F	INIT	Metals	Uranium	U	2.03	2.1	Int-Scr_95	0.614	3.3	0.0670	µg/L	1.00		J+	l4a	SW-846:6020B	GELC	