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U. S. Nuclear Regulatory Commission
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SUBJECT: COMANCHE PEAK NUCLEAR POWER PLANT
DOCKET NOS. 50-445 AND 50-446
2018 ANNUAL RADIOLOGICAL ENVIRONMENTAL OPERATING REPORT

Dear Sir or Madam:

Vistra Operations Company LLC ("Vistra OpCo") hereby submits the Comanche Peak Nuclear Power Plant (CPNPP) 2018 Annual Radiological Environmental Operating Report. The enclosed report is provided pursuant to CPNPP Technical Specification 5.6.2 and the CPNPP Offsite Dose Calculation Manual. The report covers the period from January 1, 2018 to December 31, 2018.

This communication contains no new commitments regarding CPNPP Units 1 and 2.

Should you have any questions, please contact Jim Barnette at (254) 897-5866 or Bob Knapp at (254) 897-5999.

Sincerely,

Jack C. Hicks

Jack C. Hicks

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A009
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NRR

Enclosure:
1 CPNPP 2018 Annual Radiological Environmental Operating Report

c - Scott A. Morris, Region IV
Natreon Jordan, NRR
Resident Inspectors, Comanche Peak

LUMINANT

COMANCHE PEAK NUCLEAR POWER PLANT

ANNUAL RADIOLOGICAL ENVIRONMENTAL OPERATING REPORT

JANUARY 1, 2018 through DECEMBER 31, 2018

LUMINANT REVIEW and APPROVAL

CREATED BY: Todd Emery 4-1-19
Todd Emery — Date
Radiation Protection Technician

REVIEWED BY: 4-1-19
Kassie Mandrell — Date
Health Physics Supervisor

APPROVED BY: Robert C Knapp 4/1/19
Robert Knapp — Date
Radiation Protection Manager

Documented on RPI-710-2

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Introduction

Results of the Radiological Environmental Monitoring Program for the Comanche Peak Nuclear Power Plant (CPNPP) are contained within this report. This report covers the period from January 1, 2018 through December 31, 2018 and summarizes the results of measurements and analysis of data obtained from environmental samples collected during this same timeframe.

A. Site and Station Description

CPNPP consists of two pressurized water reactor units, each designed to operate at a power level of about 1250 megawatts (electrical). The Station is located on Squaw Creek reservoir in Somervell and Hood counties, about forty miles southwest of Fort Worth, Texas. Unit 1 received a low power operating license February 8, 1990 and achieved initial criticality on April 3, 1990. A full power license for Unit 1 was issued on April 17, 1990 and commercial operation was declared on August 13, 1990. Unit 2 achieved initial criticality on March 24, 1993 and synchronized to the electrical grid on April 9, 1993.

B. Objectives and Overviews of the CPNPP Radiological Environmental Monitoring Program

The United States Nuclear Regulatory Commission (USNRC) regulations require that nuclear power plants be designed, constructed, and operated to keep levels of radioactive material in effluents to unrestricted areas as low as reasonably achievable (ALARA). To assure that these criteria are met, each license authorizing reactor operation includes technical specifications governing the release of radioactive effluents.

In-plant monitoring is used to assure that these predetermined release limits are not exceeded. However, as a precaution against unexpected and undefined processes that might allow undue accumulation of radioactivity in any sector of the environment, a program for monitoring the plant environs is also included.

Sampling locations were selected on the basis of local ecology, meteorology, physical characteristics of the region, and demographic and land use features of the site vicinity. The radiological environmental monitoring program was designed on the basis of the USNRC Branch Technical Position "An Acceptable Radiological Environmental Monitoring Program" on radiological environmental monitoring issued by the Radiological Assessment Branch, Revision 1 (November 1979), the CPNPP Technical Specification "Technical Specifications for Comanche Peak Nuclear Power Plant Units 1 and 2" and the "CPSES Offsite Dose Calculation Manual" (ODCM).

The Radiological Environmental Monitoring Program includes the following:

- The measurement of ambient gamma radiation by Thermal Luminescent dosimetry;
- The determination of airborne gross beta, gamma emitters, and Iodine-131;
- The determination of tritium and gamma emitters in Discharge Pathway surface water;
- The determination of gross beta, tritium, Iodine-131, and gamma emitters in potential drinking water sources;
- The determination of tritium and gamma emitters in ground water and fish;
- The determination of gamma emitters in sediment;
- The determination of gamma emitters in food products and;
- The determination of gamma emitters and Iodine-131 in broadleaf vegetation.

The regulations governing the quantities of radioactivity in reactor effluents allow nuclear power plants to contribute, at most, only a small percentage increase above normal background radioactivity. Background levels at any one location are not constant but vary with time as they are influenced by external events such as cosmic ray bombardment; weapons test fallout, and seasonal variations. These levels also can vary spatially within relatively short distances reflecting variations in geological composition. To differentiate between background radiation levels and increases resulting from operation of CPNPP, the radiological surveys of the plant environs were divided into pre-operational and operational phases.

The pre-operational phase of the program provided a general characterization of the radiation levels and concentrations prevalent in these areas prior to plant operation along with an indication of the degree of natural variation to be expected. The operational phase of the program obtains data which, when considered along with the data obtained in the pre-operational phase, assists in the evaluation of the radiological impact of plant operation.

Pre-operational measurements were conducted at CPNPP from 1981 to 1989. These pre-operational measurements were performed to:

- Evaluate procedures, equipment, and techniques;
- Identify potentially important pathways to be monitored after plant operation;
- Measure background levels and the variations along potentially important pathways;
- Provide baseline data for statistical comparisons with future operational analytical results.

The operational Radiological Environmental Monitoring Program is conducted to:

- Verify that measurable concentrations of radioactive materials and levels of radiation are not higher than expected on the basis of the effluent measurements and modeling of the environmental exposure pathways;
- Verify the effectiveness of in-plant measures used for controlling the release of radioactive materials;
- Identify changes in the areas at and beyond the site boundary that may impact the principal pathways of exposure.

This report documents the **twenty-ninth** year of operational measurements and is submitted in accordance with the requirements of the CPSES Offsite Dose Calculation Manual, Part I, Administrative Control 6.9.1.3. Note: Comanche Peak Steam Electric Station (CPSES) is equivalent to Comanche Peak Nuclear Power Plant (CPNPP).

Program Descriptions and Results

A. Sample Locations

Within a radius of twenty miles of the CPNPP site there are seventy-two (72) sample locations included in the monitoring program. The number of sample points and the specific locations for the sample points were determined by considering locations where the highest off-site environmental concentrations have been predicted from plant effluent source terms, site hydrology, and site meteorological conditions. Other factors considered were applicable regulations, population distribution, and ease of access to sampling stations, availability of samples at desired locations, security and future program integrity. Additionally, an annual land use census is conducted to identify changes in the areas surrounding the plant. If changes are identified that impact the principle pathways of exposure, appropriate changes to the radiological environmental monitoring program are implemented. A copy of the report "Comanche

Peak Nuclear Power Plant Land Use Census" is provided in Appendix A to this report.

Table 1 – Comanche Peak Nuclear Power Plant Radiological Environmental Monitoring Program contains a brief outline of the current program. This table specifies the sample media type, the number of locations for each media type, the sector and distance identifier for each sample location, the sample frequency, the type of analysis required and the frequency each analysis is required to be performed (Analytical Frequency).

Table 2 – Key to Environmental Sampling Locations provides a reference that links the sampling point designations used in procedures and forms to the appropriate physical sample location (sector and distance) and to the correct sample type. This cross-reference enhances the ability to review data and tie the data to the correct sample points and to ensure all samples are collected and analyzed as specified.

Currently there are no milk sample locations within ten miles of the CPNPP site. CPNPP already samples extra broadleaf locations as required due to no milk locations within the ten-mile radius therefore, no changes to the program are necessary. Milk sampling will be resumed if any future annual land use census determines a dairy has been established within the specified area.

Table 1 – Comanche Peak Nuclear Power Plant Radiological Environmental Monitoring Program

Media	Number of Locations	Identification by Sector and Distance (miles)	Sampling Frequency (a)	Analysis	Analytical Frequency (a)
Gamma Exposure	43	N-1.45; N-4.4; N-6.5; N-9.4; NNE-1.1; NNE-5.65; NE-1.7; NE-4.8; ENE-2.5; ENE-5.0; E-0.5; E-1.9; E-3.5; E-4.2; ESE-1.4; ESE-4.7; SE-1.3; SE-3.85; SE-4.6; SSE-1.3; SSE-4.4; SSE-4.5; S-1.5; S-4.2; SSW-1.1; SSW-4.4; SW-0.9; SW-4.8; SW-12.3; WSW-1.0; WSW-5.35; WSW-7.0; W-1.0; W-2.0; W-5.5; WNW-1.0; WNW-5.0; WNW-6.7; NW-1.0; NW-5.7; NW-9.9; NNW-1.35; NNW-4.6	Q, A	Thermo Luminescent (TLD)Dosimetry	Q, A
Air Particulate Air Iodine	8	N-9.4; E-3.5; SSE-4.5; SW-12.3; NW-1.0; N-1.45; SW/WSW-0.95; S/SSW-1.2	W	Gross Beta Gamma Isotopic Filter Gamma Isotopic Charcoal	W QC W
Discharge Pathway Surface Water	4	N-19.3; ESE-1.4; N-1.5; NE-7.4	M(b)	Gamma Isotopic Tritium	M QC
Surface Water & Drinking sources	2	NNW-0.1; N-9.9	M(c)	Gross Beta Gamma Isotopic Iodine-131 Tritium	M M M QC
Ground Water	5	SSE-4.6; W-1.2; WSW-0.1; N-9.8; N-1.45	Q	Gamma Isotopic Tritium	Q Q
Sediment	4	N-9.9; NNE-1.0; NE-7.4; SE-5.3	SA	Gamma Isotopic	SA
Fish	2	NNE-8.0; ENE-2.0	SA	Gamma Isotopic	SA
Food Products	1	ENE-9.0, E-4.2	MH	Gamma Isotopic Iodine-131	MH MH
Broadleaf Vegetation	3	N-1.45; SW-1.0; SW-13.5	M	Gamma Isotopic	M

(a) Frequency codes are: W–Weekly; M-Monthly; Q-Quarterly; QC-Quarterly Composite; MH-Monthly at Harvest; SA-Semiannual; A-Annual

(b) Surface water samples from Squaw Creek are monthly composites of weekly grab samples. Surface water samples from Lake Granbury are monthly grab samples.

(c) Surface water drinking samples are a monthly composite of weekly grab samples.

Table 2
Key to Environmental Sampling Locations

SAMPLING POINT	LOCATION (SECTOR-MILE)	SAMPLE TYPE*	SAMPLING POINT	LOCATION (SECTOR-MILE)	SAMPLE TYPE*
A1	N-1.45	A	R29	SW-12.3	R
A2	N-9.4	A	R30	WSW-1.0	R
A3	E-3.5	A	R31	WSW-5.35	R
A4	SSE-4.5	A	R32	WSW-7.0	R
A5	S/SSW-1.2	A	R33	W-1.0	R
A6	SW-12.3	A	R34	W-2.0	R
A7	SW/WSW-0.95	A	R35	W-5.5	R
A8	NW-1.0	A	R36	WNW-1.0	R
R1	N-1.45	R	R37	WNW-5.0	R
R2	N-4.4	R	R38	WNW-6.7	R
R3	N-6.5	R	R39	NW-1.0	R
R4	N-9.4	R	R40	NW-5.7	R
R5	NNE-1.1	R	R41	NW-9.9	R
R6	NNE-5.65	R	R42	NNW-1.35	R
R7	NE-1.7	R	R43	NNW-4.6	R
R8	NE-4.8	R	SW1	N-1.5	SW
R9	ENE-2.5	R	SW2	N-9.9	SW/DW
R10	ENE-5.0	R	SW3	N-19.9	SW
R11	E-0.5	R	SW4	NE-7.4	SW
R12	E-1.9	R	SW5	ESE-1.4	SW
R13	E-3.5	R	SW6	NNW-0.1	SW/DW
R14	E-4.2	R	GW1	W-1.2	GW/DW
R15	ESE-1.4	R	GW2	WSW-0.1	GW/DW
R16	ESE-4.7	R	GW3	SSE-4.6	GW/DW
R17	SE-1.3	R	GW4	N-9.8	GW/DW
R18	SE-3.85	R	GW5	N-1.45	GW/DW
R19	SE-4.6	R	SS1	NNE-1.0	SS
R20	SSE-1.3	R	SS2	N-9.9	SS
R21	SSE-4.4	R	SS3	NE-7.4	SS
R22	SSE-4.5	R	SS4	SE-5.3	SS
R23	S-1.5	R	F1	ENE-2.0	F
R24	S-4.2	R	F2	NNE-8.0	F
R25	SSW-1.1	R	FP1	ENE-9.0	FP
R26	SSW-4.4	R	FP2	E-4.2	FP
R27	SW-0.9	R	BL1	N-1.45	BL
R28	SW-4.8	R	BL2	SW-1.0	BL
			BL3	SW-13.5	BL

Sample Type*

A – AIR SAMPLE
F – FISH
SS – SHORELINE SEDIMENT
SW – SURFACE WATER
DW – DRINKING WATER
GW – GROUND WATER
R – DIRECT RADIATION
FP – FOOD PRODUCT
BL – BROADLEAF VEGETATION

B. Direct Radiation

Starting in 2013 Thermo Luminescent Dosimeters (TLDs) were used to determine the direct (ambient) radiation levels at the designated monitoring locations. The monitoring locations were chosen according to the criteria given in the USNRC Branch Technical Position on Radiation Monitoring (Revision 1, November 1979). The area around the station was divided into 16 radial sectors of 22-1/2 degrees each, corresponding to the cardinal points of the compass. TLDs were placed in each of these sectors. The TLDs were placed in two rings around the station. An inner ring was located as close as possible to the site boundary and an outer ring was located at a distance of 4 to 6 miles from the station. Eleven additional TLDs were located at points of special interest, including two control locations. For routine direct radiation measurements, two sets of the TLDs were used at each of the 43 monitoring locations. One set of TLDs was exchanged on a quarterly basis and a second set of TLDs was exchanged on a yearly basis. Additional sets of in-transit TLDs were used as control TLDs for the quarterly and annual TLDs.

Mirion Technologies provides and processes Thermo Luminescent Dosimeters (TLDs.) The TLDs are used to determine the direct (ambient) radiation levels in designated monitoring locations. Mirion Technologies is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP.)

D. C. Oakley's report "National Radiation Exposure in the United States", published in 1972, calculated a background radiation dose rate equivalent of 0.22 mR/day for the area surrounding Fort Worth, Texas. This calculated value varies widely with changes in location but represents an appropriate reference value to compare with actual measured TLD doses.

Using data from the pre-operational program for the two years prior to the startup of Unit 1, the quarterly TLDs averaged a calculated dose rate of 0.14 mR/day while the yearly TLDs averaged a calculated dose rate of 0.16 mR/day. The range of measured values from this same two-year period varied from a minimum of 0.11 mR/day to a maximum of 0.22 mR/day.

Table 3 – Environmental Direct Radiation Results contains the measured dose (mR) for each quarterly TLD from each of the 43 monitoring locations. The corresponding quarterly calculated dose rate (mR/day) values are listed as well. The statistical average doses (mR) and dose rate (mR/day) values for each set of quarterly TLDs is also displayed. Additionally, the table includes the total dose (mR) of all four quarters for each specific location. The table also includes the measured dose (mR) for each annual TLD from each of the 43 monitoring locations. The corresponding annual calculated dose rate (mR/day) values are listed as well. The statistical annual average dose (mR) for the entire set of annual TLDs is reported along with the average dose rate (mR/day) for the entire set of annual TLDs.

The measured dose rates of all the quarterly TLDs ranged from a minimum of **0.095 mR/day** to a maximum of **0.206 mR/day** with an average dose rate of **0.136 mR/day**. This resulted in an average quarterly dose of **13 mR** and a total annual dose of **46 mR** for all of the forty-three monitoring stations.

The measured dose rates of all the annual TLDs ranged from a minimum of **0.085 mR/day** to a maximum of **0.167 mR/day** with an average dose rate of **0.125 mR/day**. This resulted in an average annual dose of **12 mR** and a total annual dose average of **45.7 mR** for all of the forty-three monitoring stations.

Comparing the pre-operational data and operational data collected through the year 2018 did not produce any anomalies. The direct radiation dose data was consistent with previous years of data during the pre-operational program. Annual Environmental TLDs were compared against the baseline data established in EV-TR-2015-007304-6 and no anomalies were identified.

Table 6 – TLD Trend Quarterly Average contains the average quarterly TLD data for the five most current years and the Annual totals for 2018 from each of the 43 monitoring locations. The implementation of the Mirion TLDs and the background subtract method used to report the data from the TLDs accounts for the lower values and accounts for consistent response from each location's total quarterly TLDs to the Annual TLDs. See CR-2013-004934 for additional clarification on the background subtraction method.

During the year 2018, there was two exceptions to the TLD Program. CRs are represented by * on Table 3.

CR-2018-006468: During the quarterly environmental TLD change out, it was discovered that R18 annual and quarterly badges were missing.

CR-2019-002077: Location R25 for 2018 4th quarter received unusual elements observed, no dose assigned (defective/damaged DLR).

Table 3 – Environmental Direct Radiation Results
(Units of mR dose and mR/day dose rate)

		1ST QTR	Average	2ND QTR	Average	3RD QTR	Average	4TH QTR	Average	AVG QTR TLD	Quarterly TLD Average
Location		Total	mR/Day	Total	mR/Day	Total	mR/Day	Total	mR/Day	Total	mR/Day
N-1.45	R1	14	0.151	12	0.128	14	0.150	16	0.174	11	0.151
N-4.4	R2	15	0.162	13	0.139	14	0.150	17	0.185	13	0.159
N-6.5	R3	13	0.140	13	0.139	13	0.139	15	0.163	12	0.145
N-9.4	R4	11	0.118	13	0.139	14	0.150	15	0.163	12	0.143
NNE-1.1	R5	10	0.107	10	0.106	13	0.139	12	0.130	8	0.121
NNE-5.65	R6	14	0.151	12	0.128	14	0.150	15	0.163	12	0.148
NE-1.7	R7	9	0.096	10	0.106	11	0.117	12	0.130	8	0.112
NE-4.8	R8	15	0.162	13	0.139	14	0.150	15	0.163	13	0.154
ENE-2.5	R9	15	0.162	15	0.161	15	0.161	16	0.174	13	0.165
ENE-5.0	R10	16	0.173	15	0.161	18	0.194	18	0.195	15	0.137
E-0.5	R11	13	0.140	12	0.128	13	0.139	15	0.163	11	0.143
E-1.9	R12	11	0.118	11	0.117	12	0.128	14	0.152	10	0.129
E-3.5	R13	13	0.140	12	0.128	11	0.117	15	0.163	11	0.137
E-4.2	R14	14	0.151	13	0.139	14	0.150	16	0.174	13	0.154
ESE-1.4	R15	12	0.129	12	0.128	12	0.128	15	0.163	11	0.137
ESE-4.7	R16	12	0.129	13	0.139	14	0.150	16	0.174	12	0.148
SE-1.3	R17	12	0.129	12	0.128	14	0.150	15	0.163	12	0.143
SE-3.85	R18	10	0.107	13	0.139	*	*	15	0.163	11	0.136
SE-4.6	R19	13	0.140	12	0.128	13	0.139	15	0.163	12	0.143
SSE-1.3	R20	12	0.129	12	0.128	16	0.172	15	0.163	11	0.148
SSE-4.4	R21	12	0.129	12	0.128	11	0.117	16	0.174	11	0.137
SSE-4.5	R22	14	0.151	14	0.150	13	0.139	19	0.206	11	0.162
S-1.5	R23	11	0.118	13	0.139	11	0.117	13	0.141	11	0.129
S-4.2	R24	14	0.151	14	0.150	13	0.139	16	0.174	12	0.154
SSW-1.1	R25	12	0.129	14	0.150	15	0.161	*	*	11	0.147
SSW-4.8	R26	12	0.129	12	0.128	13	0.139	16	0.174	12	0.143
SW-0.9	R27	14	0.151	12	0.128	12	0.128	14	0.152	11	0.140
SW-4.8	R28	11	0.118	11	0.117	13	0.139	13	0.141	10	0.129
SW-12.3 (C)	R29	12	0.129	12	0.128	14	0.150	16	0.174	12	0.145
WSW-1.0	R30	12	0.129	12	0.128	15	0.161	15	0.163	12	0.145
WSW-5.35	R31	11	0.118	12	0.128	13	0.139	15	0.163	11	0.137
WSW-7.0 (C)	R32	15	0.162	15	0.161	15	0.161	16	0.174	13	0.165
W-1.0	R33	10	0.107	11	0.117	13	0.139	14	0.152	10	0.129
W-2.0	R34	12	0.129	12	0.128	12	0.128	14	0.152	10	0.134
W-5.5	R35	12	0.129	13	0.139	13	0.139	15	0.163	8	0.143
WNW-1.0	R36	11	0.118	13	0.139	14	0.150	18	0.195	12	0.151
WNW-5.0	R37	14	0.151	13	0.139	13	0.139	17	0.185	12	0.154
WNW-6.7	R38	13	0.140	12	0.128	12	0.128	16	0.174	11	0.143
NW-1.0	R39	13	0.140	12	0.128	12	0.128	15	0.163	11	0.140
NW-5.7	R40	14	0.151	14	0.150	15	0.161	15	0.163	12	0.156
NW-9.9	R41	11	0.118	12	0.128	12	0.128	15	0.163	10	0.134
NNW-1.35	R42	10	0.107	10	0.106	9	0.095	11	0.119	8	0.107
NNW-4.6	R43	16	0.173	14	0.150	14	0.150	17	0.185	13	0.165
AVERAGES		**12**	**0.135**	**12**	**0.133**	**13**	**0.142**	**15**	**0.160**	**13**	**0.136**

Table 6 – TLD Trend Quarterly Average (Five most current years)

Location	2014	2015	2016	2017	2018	2014-2018 mR Avg	Quarterly Baseline	Annual TLD Total	Annual Baseline
							mrem		mrem
R1	11	12	13	13	11	12.25	12.4	45	47
R2	13	14	14	13	13	13.50	14.4	51	53.9
R3	12	13	12	13	12	12.50	14	47	51.7
R4	12	13	12	13	12	12.50	13.4	48	51.2
R5	8	9	9	13	8	9.75	9	33	34.4
R6	12	14	13	13	12	13.00	13.3	47	50.6
R7	8	9	8	13	8	9.50	9	33	35
R8	13	15	13	13	13	13.50	13.8	52	54.2
R9	13	15	14	13	13	13.75	14.7	52	53.8
R10	15	16	15	13	15	14.75	15.8	61	59.1
R11	13	13	12	13	11	12.75	13.8	45	47.7
R12	10	11	12	13	10	11.50	11.6	41	44.5
R13	11	12	12	13	11	12.00	11.4	45	47.9
R14	13	14	13	13	13	13.25	14.4	51	55
R15	12	13	12	13	11	12.50	13.2	46	48.5
R16	12	14	13	13	12	13.00	14.6	48	51.8
R17	12	13	12	13	12	12.50	13.2	50	48.9
R18	11	12	11	13	11	11.75	12.1	11	47.7
R19	11	12	13	13	12	12.25	12.5	47	49.5
R20	11	12	12	13	11	12.00	12.4	45	50.2
R21	12	13	13	13	11	12.75	13	46	53
R22	12	13	12	13	11	12.50	12.6	46	50.2
R23	10	12	12	13	11	11.75	12	43	46.3
R24	13	14	13	13	12	13.25	13.1	50	50.2
R25	12	13	12	13	11	12.50	13.1	46	50.2
R26	12	13	12	13	12	12.50	13.2	47	49.1
R27	12	12	12	13	11	12.25	12.4	46	46.4
R28	11	11	13	13	10	12.00	12.1	41	45.1
R29	11	13	12	13	12	12.25	12.8	47	50.2
R30	12	13	12	13	12	12.50	13.6	49	51.1
R31	12	12	12	13	11	12.25	12.4	44	47.7
R32	13	14	14	13	13	13.50	13.6	52	52.2
R33	10	11	11	13	10	11.25	11.7	41	42.6
R34	10	11	11	13	10	11.25	11.8	42	42.7
R35	11	11	10	13	8	11.25	11.4	34	46.2
R36	12	13	12	13	12	12.50	13.9	49	52.3
R37	12	13	12	13	12	12.50	13.5	48	50.5
R38	11	13	12	13	11	12.25	12.5	45	50.7
R39	11	12	12	13	11	12.00	12.1	43	45.2
R40	12	13	13	13	12	12.75	13.3	50	52.1
R41	11	12	11	13	10	11.75	12.4	42	48.4
R42	8	8	8	13	8	9.25	8	31	30.4
R43	13	14	13	13	13	13.25	14.6	52	52.6
Averages	**12**	**13**	**12**	**13**	**11**	**12**	**13**	**45**	**49**

C. Airborne Program

Air particulate and air iodine samples were collected each week from the eight monitoring locations described in Table 1 – Comanche Peak Nuclear Power Plant Environmental Radiological Monitoring Program (as seen in section II.A). Each air particulate sample was collected by drawing air through a 47 millimeter-diameter glass-fiber filter. Air iodine was collected by drawing air through an impregnated charcoal cartridge which was connected in series behind the air particulate filter. Shipped to an independent laboratory, air particulate filters were analyzed weekly for gross beta activity and were composited quarterly for gamma spectrometry analysis. Charcoal cartridges were analyzed weekly for Iodine-131.

A total of 416 air particulate filters were collected and analyzed for gross beta activity. The reported gross beta activity ranged from a minimum value of **1.91E-02 pCi/m^3** to a maximum value of **7.84E-02 pCi/m^3** (control group excluded). Table 4 – Environmental Airborne Particulate Gross Beta Results contains the reported values of all samples. There were no anomalies noted in the data reported for 2018 when compared to pre-operational and previous operational data. Graph 1 – Environmental Air Sample Gross Beta Results – Maximum and Minimum trends the weekly high and low gross beta values to show the seasonal variation of the results as well as providing indication of consistency between the individual monitoring locations.

A total of 416 charcoal cartridges were analyzed for airborne Iodine-131. Table 5 – Environmental Air Sample Iodine-131 Results contains the reported values of each Iodine-131 analysis, all of which are less than reportable levels.

All air particulate filters were collected and composited quarterly and then analyzed by gamma spectrometry. Typical of pre-operational and previous operational data results, the only radioactive nuclide identified in all the samples was cosmogenic Beryllium-7, a naturally occurring isotope.

During the year 2018, there were five exceptions to the Airborne Program.

CR-2018-000250: Due to losing power on the 25KV loop on Saturday the 6th of January, the environmental air samples stations did not receive the full run time of 168 hours. The stations A-7 (SW/WSW-0.95) and A-5 (S/SSW-1.2).

CR-2018-001611: While performing the weekly environmental run, it was discovered that Air Sample Location A-5 (S/SSW-1.2) only ran for 4 hours and 12 min. Further investigation shows a dead battery on the telemetry unit.

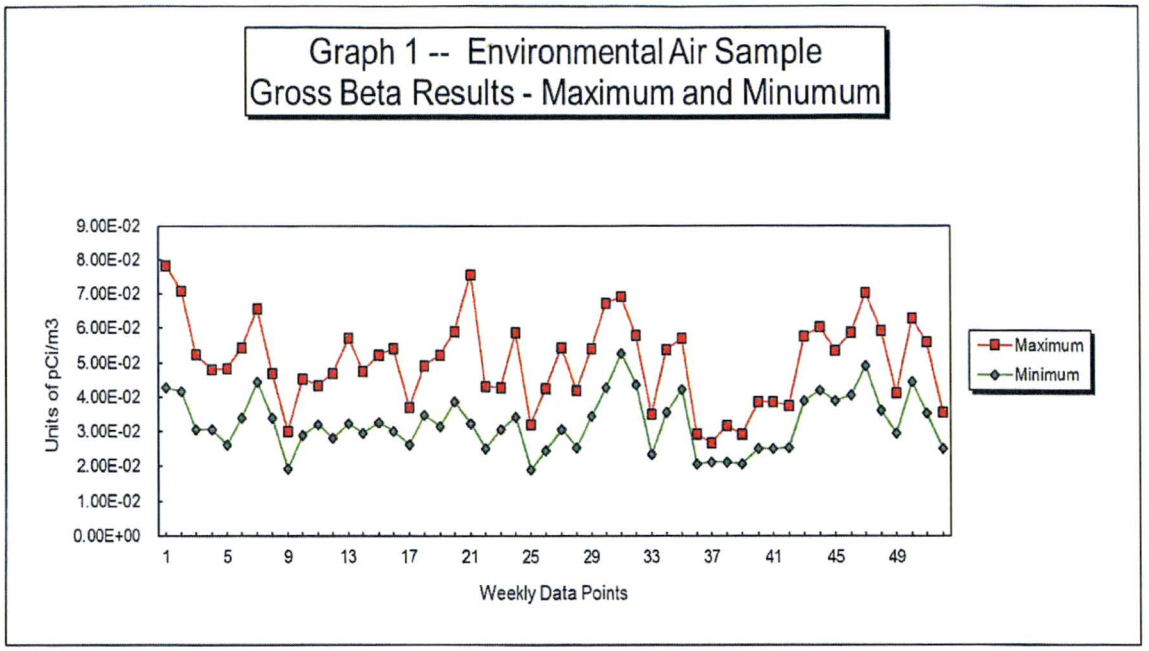
CR-2018-002833; While performing the weekly environmental air sample change out, it was noted that Air Sample Station A-8 and State 1 did not have power for about 68 hours of a total 168 hours. This power outage was due to the 25K loop being out of service.

CR-2018-003671; While performing the weekly air sample collection, location A-3, (Happy Hills Farm), The air sampler run for a total time of 36 hrs and 21 mins. The reason for the short run time was due to transformer work. The unit's power has been restored.

CR-2019-000790; Gel Labs reported a "M" flag for location A-2 from the gross beta result. Lab re-analyzed and verified the result to be satisfactory.

Table 4 -- Environmental Airborne Particulate Gross Beta Results
(Units of pCi/m3)

	A-8	A-7	A-5	A-6	A-4	A-3	A-1	A-2
	Location							
	NW-1.0	SW/WSW-0.95	S/SSW-1.2	SW-12.3	SSE-4.5	E-3.5	N-1.45	N-9.4
Date				Control				Control
01-02-18	7.84E-02	5.97E-02	6.89E-02	6.18E-02	4.27E-02	6.19E-02	7.00E-02	6.78E-02
01-09-18	7.08E-02	6.30E-02	6.02E-02	5.83E-02	4.15E-02	5.31E-02	6.85E-02	6.23E-02
01-16-18	5.24E-02	3.81E-02	4.57E-02	4.51E-02	3.07E-02	4.22E-02	4.20E-02	4.88E-02
01-23-18	4.75E-02	3.80E-02	4.58E-02	4.54E-02	3.07E-02	3.92E-02	4.40E-02	4.79E-02
01-30-18	4.83E-02	2.83E-02	2.62E-02	2.79E-02	3.79E-02	3.84E-02	3.63E-02	3.70E-02
02-06-18	4.90E-02	4.32E-02	3.38E-02	4.42E-02	4.46E-02	3.70E-02	5.44E-02	4.91E-02
02-13-18	5.99E-02	5.28E-02	5.43E-02	5.52E-02	5.10E-02	4.43E-02	5.61E-02	6.56E-02
02-20-18	4.69E-02	3.62E-02	3.40E-02	4.27E-02	4.02E-02	4.11E-02	3.81E-02	4.44E-02
02-27-18	2.73E-02	2.15E-02	3.00E-02	2.48E-02	1.94E-02	2.22E-02	2.39E-02	2.48E-02
03-06-18	4.51E-02	3.73E-02	3.27E-02	3.62E-02	3.68E-02	2.89E-02	3.59E-02	4.02E-02
03-13-18	4.15E-02	3.75E-02	3.20E-02	4.20E-02	3.42E-02	3.50E-02	4.34E-02	3.95E-02
03-20-18	4.68E-02	3.80E-02	3.10E-02	3.48E-02	2.81E-02	3.83E-02	3.64E-02	3.72E-02
03-27-18	5.70E-02	4.18E-02	3.23E-02	3.26E-02	4.80E-02	3.75E-02	4.57E-02	4.13E-02
04-03-18	4.73E-02	3.58E-02	3.28E-02	4.63E-02	3.57E-02	2.95E-02	3.95E-02	4.56E-02
04-10-18	5.20E-02	3.93E-02	3.24E-02	3.66E-02	4.34E-02	3.50E-02	3.96E-02	4.12E-02
04-17-18	5.40E-02	3.68E-02	3.34E-02	4.88E-02	3.96E-02	2.99E-02	4.37E-02	4.76E-02
04-24-18	3.30E-02	2.89E-02	3.30E-02	2.88E-02	2.63E-02	2.78E-02	3.69E-02	3.21E-02
05-01-18	4.55E-02	3.92E-02	3.47E-02	4.90E-02	3.63E-02	3.95E-02	3.93E-02	4.80E-02
05-08-18	5.20E-02	4.62E-02	3.15E-02	4.21E-02	4.58E-02	4.03E-02	4.08E-02	4.19E-02
05-15-18	4.55E-02	5.23E-02	5.00E-02	4.85E-02	3.94E-02	3.86E-02	5.89E-02	5.08E-02
05-22-18	5.61E-02	3.69E-02	3.23E-02	3.95E-02	4.17E-02	7.56E-02	3.39E-02	3.87E-02
05-29-18	4.31E-02	3.14E-02	2.50E-02	3.30E-02	3.22E-02	2.83E-02	2.91E-02	3.26E-02
06-05-18	4.28E-02	4.03E-02	3.07E-02	3.66E-02	3.93E-02	3.02E-02	3.66E-02	3.19E-02
06-12-18	5.82E-02	4.34E-02	3.57E-02	5.86E-02	4.17E-02	3.41E-02	4.17E-02	5.16E-02
06-19-18	2.84E-02	2.53E-02	2.22E-02	2.78E-02	2.29E-02	1.91E-02	2.24E-02	3.21E-02
06-26-18	3.30E-02	3.31E-02	2.45E-02	2.57E-02	2.50E-02	3.30E-02	4.25E-02	2.45E-02
07-03-18	5.42E-02	3.85E-02	3.93E-02	3.96E-02	3.06E-02	3.38E-02	4.74E-02	4.30E-02
07-10-18	4.18E-02	2.87E-02	3.21E-02	2.53E-02	3.68E-02	2.96E-02	3.10E-02	3.86E-02
07-17-18	5.41E-02	4.17E-02	3.45E-02	4.27E-02	4.30E-02	3.49E-02	3.60E-02	3.66E-02
07-24-18	4.42E-02	5.71E-02	4.74E-02	4.73E-02	4.26E-02	6.73E-02	4.88E-02	4.86E-02
07-31-18	6.02E-02	6.62E-02	5.56E-02	5.38E-02	6.92E-02	6.53E-02	5.89E-02	5.28E-02
08-07-18	4.83E-02	4.92E-02	4.44E-02	4.36E-02	4.54E-02	4.48E-02	5.80E-02	5.38E-02
08-14-18	3.24E-02	2.68E-02	2.33E-02	2.81E-02	3.21E-02	3.49E-02	2.99E-02	3.14E-02
08-21-18	3.88E-02	3.69E-02	4.08E-02	3.64E-02	3.75E-02	3.56E-02	5.37E-02	4.10E-02
08-28-18	5.68E-02	4.86E-02	4.71E-02	4.42E-02	5.37E-02	5.70E-02	5.49E-02	4.21E-02
09-04-18	2.22E-02	2.46E-02	2.33E-02	2.07E-02	2.09E-02	2.92E-02	2.55E-02	2.12E-02
09-11-18	2.14E-02	2.54E-02	2.52E-02	2.12E-02	2.17E-02	2.46E-02	2.67E-02	2.41E-02
09-18-18	2.87E-02	2.75E-02	3.17E-02	2.12E-02	2.51E-02	3.02E-02	2.98E-02	2.61E-02
09-25-18	2.68E-02	2.44E-02	2.20E-02	2.30E-02	2.07E-02	2.47E-02	2.93E-02	2.35E-02
10-02-18	3.32E-02	3.87E-02	3.59E-02	2.60E-02	2.50E-02	3.66E-02	3.77E-02	3.22E-02
10-09-18	3.87E-02	3.28E-02	2.75E-02	2.50E-02	3.60E-02	3.04E-02	3.32E-02	3.13E-02
10-16-18	2.54E-02	3.11E-02	2.54E-02	2.68E-02	2.53E-02	2.86E-02	3.57E-02	3.32E-02
10-23-18	5.75E-02	4.98E-02	4.26E-02	3.89E-02	5.03E-02	5.42E-02	5.15E-02	4.42E-02
10-30-18	5.36E-02	5.64E-02	4.20E-02	4.46E-02	4.65E-02	4.80E-02	6.03E-02	5.82E-02
11-06-18	4.65E-02	5.34E-02	3.98E-02	4.46E-02	3.88E-02	4.94E-02	5.18E-02	5.26E-02
11-13-18	5.07E-02	5.20E-02	4.08E-02	4.06E-03	4.61E-02	4.45E-02	5.87E-02	4.64E-02
11-20-18	5.66E-02	5.82E-02	6.22E-02	7.02E-02	6.05E-02	5.97E-02	5.61E-02	4.92E-02
11-27-18	4.96E-02	5.21E-02	4.79E-02	3.62E-02	4.34E-02	5.18E-02	5.93E-02	4.18E-02
12-04-18	4.12E-02	3.67E-02	3.50E-02	2.95E-02	3.72E-02	3.72E-02	3.69E-02	3.25E-02
12-11-18	5.14E-02	5.29E-02	4.85E-02	4.67E-02	4.44E-02	5.22E-02	6.28E-02	6.23E-02
12-18-18	4.59E-02	5.55E-02	3.83E-02	3.53E-02	4.89E-02	5.59E-02	4.72E-02	4.36E-02
12-25-18	3.51E-02	3.07E-02	2.52E-02	2.81E-02	3.51E-02	3.17E-02	3.35E-02	3.55E-02
Required LLD	1.00E-02							



Graph 2 -- Environmental Airborne Particulate Gross Beta Results by Station

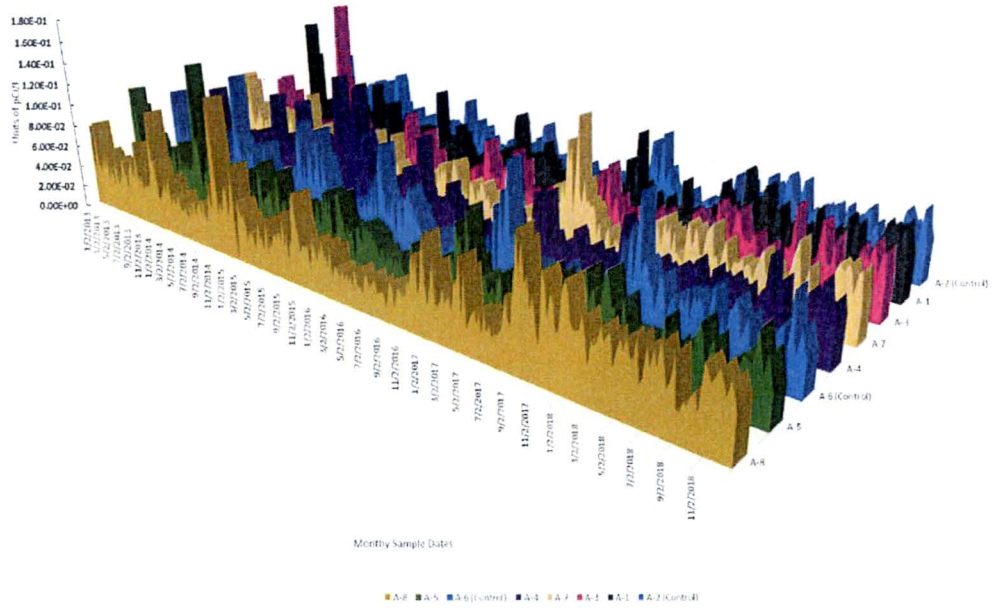


Table 5 -- -- Environmental Air Sample Iodine-131 Results
(Units of pCi/m3)
All sample analysis results is <MDC values listed below in the following table

	A-8	A-7	A-5	A-6	A-4	A-3	A-1	A-2
	Location							
	NW-1.0	SW/WSW-0.95	S/SSW-1.2	SW-12.3	SSE-4.5	E-3.5	N-1.45	N-9.4
Date				Control				Control
01-02-18	5.18E-02	2.44E-02	2.83E-02	2.99E-02	2.77E-02	2.48E-02	2.16E-02	2.23E-02
01-09-18	2.47E-02	4.52E-02	3.65E-02	2.57E-02	2.90E-02	1.58E-02	2.64E-02	1.59E-02
01-16-18	1.15E-02	1.70E-02	7.70E-03	2.95E-02	1.70E-02	1.46E-02	1.38E-02	1.96E-02
01-23-18	1.60E-02	1.83E-02	2.41E-02	1.94E-02	2.02E-02	2.37E-02	1.64E-02	1.81E-02
01-30-18	1.95E-02	2.47E-02	2.37E-02	1.42E-02	2.68E-02	2.34E-02	2.78E-02	2.26E-02
02-06-18	1.27E-02	9.63E-03	1.55E-02	1.07E-02	1.23E-02	9.90E-03	1.09E-02	1.29E-02
02-13-18	1.45E-02	1.62E-02	1.50E-02	1.97E-02	1.67E-02	1.99E-02	1.40E-02	1.03E-02
02-20-18	1.03E-02	1.32E-02	7.49E-03	1.16E-02	1.00E-02	1.05E-02	1.86E-02	9.91E-03
02-27-18	1.04E-02	1.28E-02	3.79E-01	1.38E-02	1.43E-02	1.22E-02	1.05E-02	9.95E-03
03-06-18	1.04E-02	1.19E-02	9.09E-03	8.25E-03	1.20E-02	8.12E-03	1.12E-02	9.00E-03
03-13-18	1.32E-02	1.20E-02	1.41E-02	6.35E-03	1.46E-02	1.33E-02	1.10E-02	1.16E-02
03-20-18	1.09E-02	1.30E-02	1.10E-02	1.08E-02	1.27E-02	1.05E-02	1.16E-02	1.45E-02
03-27-18	1.18E-02	1.18E-02	1.33E-02	9.89E-03	1.17E-02	9.20E-03	1.21E-02	9.01E-03
04-03-18	1.85E-02	1.38E-02	1.70E-02	3.03E-02	1.64E-02	1.24E-02	2.66E-02	1.25E-02
04-10-18	1.04E-02	1.60E-02	1.50E-02	1.50E-02	1.04E-02	8.27E-03	9.92E-03	9.91E-03
04-17-18	1.54E-02	1.59E-02	1.43E-02	1.15E-02	1.32E-02	1.32E-02	1.15E-02	1.03E-02
04-24-18	4.01E-02	3.42E-02	2.98E-02	2.00E-02	2.22E-02	2.29E-02	4.35E-02	3.79E-02
05-01-18	4.93E-02	2.78E-02	2.80E-02	6.61E-03	6.46E-03	2.88E-02	7.12E-03	2.82E-02
05-08-18	1.35E-02	1.00E-02	9.74E-03	1.23E-02	1.26E-02	1.09E-02	1.11E-02	1.65E-02
05-15-18	1.53E-02	1.04E-02	2.20E-02	1.49E-02	1.73E-02	2.56E-02	1.46E-02	1.47E-02
05-22-18	1.71E-02	1.88E-02	1.04E-02	2.09E-02	1.11E-02	4.48E-02	1.52E-02	1.83E-02
05-29-18	1.75E-02	1.41E-02	2.49E-02	2.39E-02	1.86E-02	2.03E-02	1.72E-02	9.15E-03
06-05-18	2.11E-02	2.96E-02	2.33E-02	2.37E-02	2.42E-02	2.72E-02	2.73E-02	1.69E-02
06-12-18	2.23E-02	1.21E-02	1.11E-02	1.55E-02	1.64E-02	1.94E-02	1.39E-02	1.39E-02
06-19-18	1.84E-02	1.65E-02	2.64E-02	2.01E-02	2.10E-02	1.75E-02	1.78E-02	1.90E-02
06-26-18	1.32E-02	1.12E-02	8.27E-03	1.15E-02	1.05E-02	1.73E-02	7.07E-03	1.53E-02
07-03-18	2.20E-02	1.52E-02	1.22E-02	3.69E-02	2.96E-02	2.79E-02	3.13E-02	1.28E-02
07-10-18	2.02E-02	2.33E-02	2.32E-02	1.26E-02	1.95E-02	1.94E-02	2.12E-02	1.71E-02
07-17-18	2.77E-02	3.14E-02	3.36E-02	2.26E-02	2.83E-02	2.29E-02	2.00E-02	2.02E-02
07-24-18	2.50E-02	1.62E-02	2.06E-02	2.70E-02	2.53E-02	1.92E-02	3.11E-02	2.61E-02
07-31-18	3.15E-02	2.75E-02	2.46E-02	2.37E-02	1.43E-02	2.07E-02	1.66E-02	1.21E-02
08-07-18	2.28E-02	3.20E-02	3.88E-02	2.34E-02	4.24E-02	1.83E-02	1.58E-02	2.73E-02
08-14-18	2.37E-02	3.90E-02	2.80E-02	1.21E-02	2.74E-02	2.17E-02	2.95E-02	2.90E-02
08-21-18	2.53E-02	7.06E-03	2.14E-02	1.49E-02	3.68E-02	2.04E-02	2.38E-02	2.17E-02
08-28-18	3.15E-02	2.05E-02	2.93E-02	2.89E-02	1.98E-02	1.01E-02	1.62E-02	1.68E-02
09-04-18	9.56E-03	8.50E-03	1.31E-02	8.17E-03	1.10E-02	1.11E-02	1.22E-02	5.38E-02
09-11-18	3.72E-02	3.09E-02	5.72E-02	3.57E-02	2.75E-02	6.86E-02	2.85E-02	1.55E-02
09-18-18	1.75E-02	1.40E-02	2.07E-02	1.55E-02	1.68E-02	1.59E-02	1.70E-02	1.77E-02
09-25-18	2.15E-02	1.78E-02	1.73E-02	1.07E-02	1.22E-02	1.86E-02	2.25E-02	1.85E-02
10-02-18	2.67E-02	1.79E-02	4.33E-02	2.80E-02	0.00E+00	2.61E-02	3.65E-02	2.87E-02
10-09-18	2.07E-02	2.11E-02	1.88E-02	2.61E-02	1.59E-02	1.84E-02	1.49E-02	1.45E-02
10-16-18	2.61E-02	2.15E-02	3.03E-02	2.51E-02	3.26E-02	2.13E-02	3.15E-02	1.13E-02
10-23-18	1.57E-02	1.68E-02	1.13E-02	1.33E-02	1.37E-02	1.89E-02	1.68E-02	1.94E-02
10-30-18	1.95E-02	2.25E-02	1.17E-02	1.54E-02	1.51E-02	1.65E-02	1.66E-02	2.86E-02
11-06-18	1.41E-02	2.96E-02	1.64E-02	1.99E-02	2.13E-02	1.92E-02	1.98E-02	3.59E-02
11-13-18	2.81E-02	1.91E-02	1.81E-02	1.56E-03	1.12E-02	1.55E-02	1.56E-02	2.33E-02
11-20-18	2.64E-02	3.58E-02	2.31E-02	3.36E-02	1.87E-02	2.39E-02	2.70E-02	1.67E-02
11-27-18	2.78E-02	2.47E-02	1.86E-02	2.51E-02	3.40E-02	2.49E-02	2.64E-02	3.62E-02
12-04-18	2.30E-02	1.70E-02	1.79E-02	2.04E-02	3.19E-02	2.29E-02	1.20E-02	1.74E-02
12-11-18	2.35E-02	2.12E-02	1.69E-02	3.90E-02	1.54E-02	2.52E-02	3.27E-02	2.34E-02
12-18-18	2.89E-02	1.75E-02	1.24E-02	2.25E-01	1.17E-02	2.73E-02	3.58E-02	2.15E-02
12-25-18	2.10E-02	3.84E-02	8.34E-03	2.04E-02	2.45E-02	1.84E-02	2.22E-02	2.16E-02
Required LLD 1.00E-02								

D. Discharge Pathway Surface Water Program

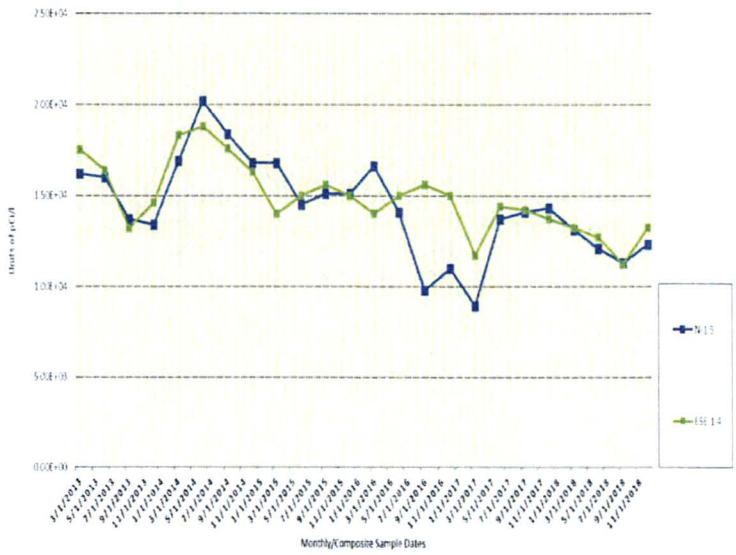
Discharge Pathway Surface water monitoring stations are found at four locations as detailed in Table 1 – Comanche Peak Nuclear Power Plant Radiological Environmental Monitoring Program. Location N-1.5 provides samples representative of Squaw Creek reservoir surface water at a location beyond significant influence of the plant discharge. Location ESE-1.4 provides samples representative of discharges from Squaw Creek reservoir downstream to Squaw Creek and to Lake Granbury via an installed return line. [*NOTE: The installed return line to Lake Granbury has never been used to send water back to Lake Granbury.*] Location NE-7.4 provides samples of Lake Granbury surface water downstream of the discharge from the return line from Squaw Creek reservoir. A control sample is obtained from the Brazos River, upstream of Lake Granbury at location N-19.3. Discharge Pathway Surface water samples from Squaw Creek reservoir locations were collected weekly and composited for monthly gamma isotopic analysis. Samples from Lake Granbury locations were collected monthly and analyzed by gamma spectrometry. All Discharge Pathway Surface Water samples were also composited quarterly by location for tritium analysis.

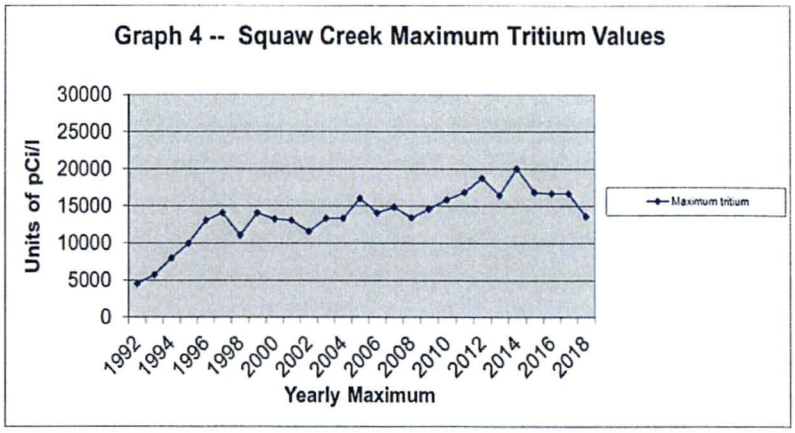
All Discharge Pathways Surface Water samples were collected as required. Forty-eight samples were analyzed by gamma spectrometry. All results for the required radionuclides were reported as less than the required LLDs. Sixteen quarterly composited samples were analyzed for tritium. The results of the reported tritium values for Squaw Creek reservoir were in line with expected concentrations. The tritium values ranged from a high of **1.35E+04** pCi/l to a low of **1.15E+04** pCi/l. The results from Lake Granbury were all less than the required LLDs as expected. The tritium concentration reported in Squaw Creek is well below the action level of **3.0E+4** pCi/l and is following the expected concentration variations based on fuel cycles, power histories and reservoir makeup due to rain and pump transfers from Lake Granbury. Graph 3 – Environmental Surface Water Tritium Results indicates the current results and the short-term trend of the tritium concentration in Squaw Creek reservoir, Squaw Creek spillway, Lake Granbury, and Brazos River (control location). Graph 4 – Squaw Creek Maximum Tritium Values trends the reservoir tritium concentration since it was first detected in 1990 after Unit 1 startup. **Squaw Creek reservoir tritium is a direct product from the operation of CPNPP.**

There should not be any significant changes in the tritium concentrations in the near future and no action levels are anticipated. A review of pre-operational and operational data indicated the 2018 results were both expected and consistent with previous data and that no anomalies had occurred.

During the year 2018, there were no exceptions to the Discharge Pathway Surface Water.

GRAPH 3 -- ENVIROMENTAL SURFACE WATER TRITIUM RESULTS





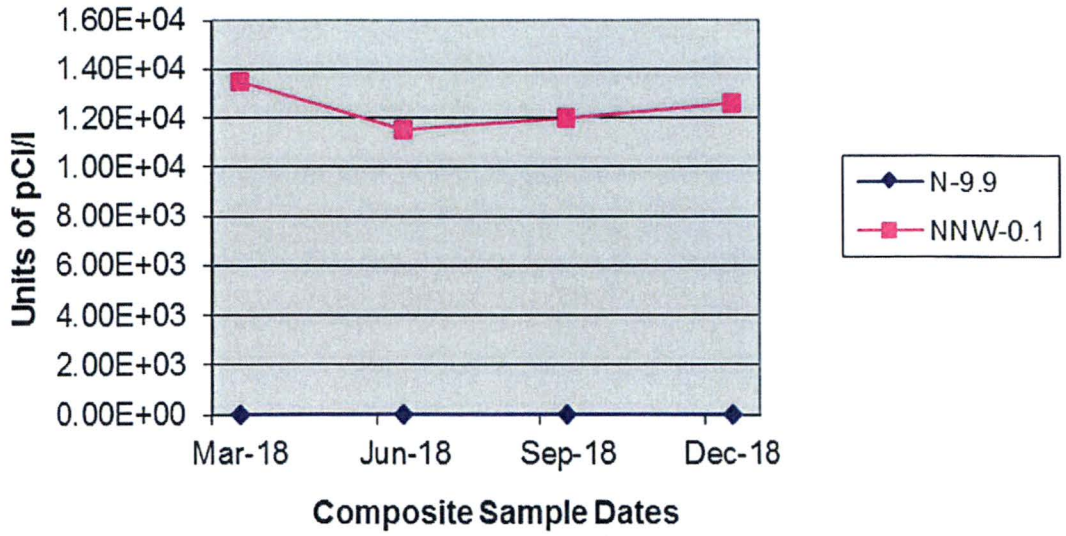
E. Squaw Creek and Lake Granbury Surface Water Program

Surface water was collected at two monitoring locations. Table 1 -- Comanche Peak Nuclear Power Plant Radiological Environmental Monitoring Program details the location and types of analysis required. Samples of water from Squaw Creek reservoir were collected at the monitoring location NNW-0.1. There is not a surface water drinking source within a mile of CPNPP. Monitoring location N-9.9 is used as a surface drinking water location based on the proximity of the City of Granbury intake to the Granbury potable water system. All surface water samples were collected weekly and then composited for Iodine-131 analysis, gamma isotopic analysis, and gross beta analysis on a monthly basis. Tritium analysis was performed on a quarterly basis.

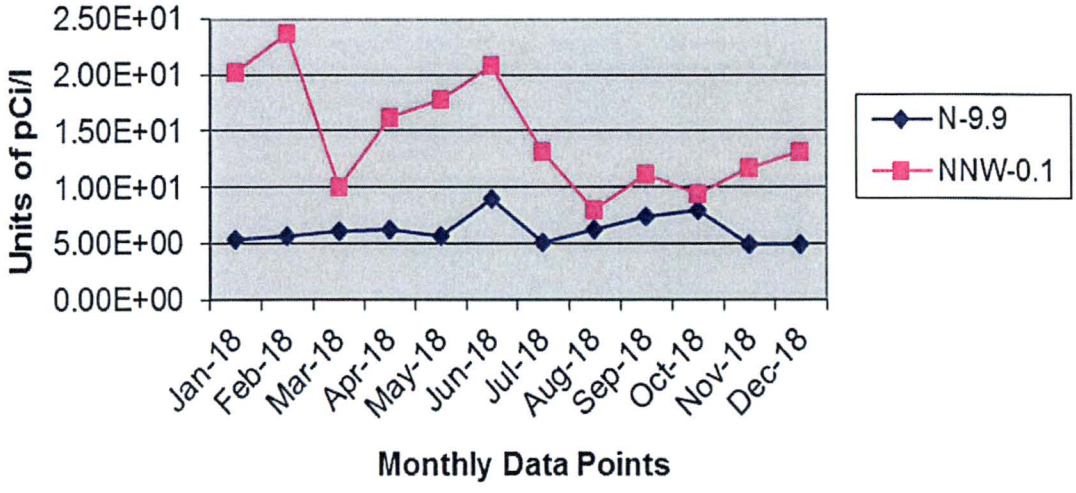
All samples were analyzed for gamma emitting radionuclides. There were no gamma emitting radionuclides identified in any of the twenty-four composite samples. Tritium reported in Squaw Creek reservoir ranged from **1.12E+04 pCi/l to 1.61E+04 pCi/l** and **averaged 1.37E+04 pCi/l.** Tritium reported from all Lake Granbury water samples indicated less than the required LLD as expected. Graph 5 – Environmental Squaw Creek and Lake Granbury Surface Water Tritium Results trends the results reported for the year 2018. Gross Beta results at the indicator location NNW-0.1 ranged from **7.97+00 pCi/l to 2.37E+01 pCi/l** with an average of **15.8E+01 pCi/l.** Gross Beta results at the control location N-9.9 ranged from **4.90E+00 pCi/l to 8.99E+00 pCi/l** with an average of **6.95E+00 pCi/l.** Graph 6 – Environmental Squaw Creek and Lake Granbury Surface Water Gross Beta Results trends the gross beta results for the two monitor locations and indicates no influence from Comanche Peak in the levels detected in the two different bodies of water. Past gross beta results for Lake Granbury have been as high as **8.99E+01 pCi/l**, which is still with in acceptable levels for gross beta. The gross beta results received are within values previously reported and there is no reportable level for gross beta so no action is required at this time.

During the year 2018, there were no exception to the Surface Water Program.

Graph 5 -- Environmental Squaw Creek and Lake Granbury Surface Water Tritium Results



Graph 6 -- Environmental Squaw Creek and Lake Granbury Surface Water Gross Beta Results



F. Ground Water Program

Table 1 – Comanche Peak Nuclear Power Plant Radiological Environmental Monitoring Program specifies the five groundwater monitoring locations. Groundwater supplies in the site area are not affected by plant effluents and are sampled only to provide confirmation that groundwater is not affected by plant discharges. Groundwater samples were collected quarterly and analyzed for gamma isotopes and tritium at each location.

A total of twenty groundwater samples were collected from the five different monitoring locations. There were no radionuclides identified in any of the samples. All required LLDs were met for each required gamma emitting radionuclide. Tritium analysis was performed on twenty samples, all indicated less than the required LLD. The results confirm that plant discharges are having no effect on groundwater in the area surrounding Comanche Peak.

Groundwater samples are taken quarterly in accordance with STA-654, "Groundwater Protection Program".

During the year 2018, there were no exceptions to the Ground Water Program.

G. Sediment Program

Table 1 – Comanche Peak Nuclear Power Plant Radiological Environmental Monitoring Program specifies shoreline sediments were collected at four different monitoring locations. One sample location is along the shore of Squaw Creek Reservoir, one sample location is on Squaw Creek downstream of the dam discharge and two locations are along Lake Granbury's shores. Each sample is collected on a six-month frequency and sent to the contract laboratory for analysis by gamma spectrometry.

The process of shoreline sedimentation is a complex evolution whereby potential radionuclides and stable elements may concentrate in the bottom sediment of particular bodies of water. The concentrations are effected by such things as colloidal particles combining with chelating agents and biological action of bacteria and other benthic organisms. Monitoring of the area shorelines provides one of the first and best indicators of radionuclide deposition.

As expected and in agreement with previous results from both the pre-operational and operational programs, naturally occurring Potassium-40 was detected in all eight samples and Beryillum-7 was detected in one samples. All required radionuclide results were reported as less than the required LLDs. During previous years, both pre-operational and operational, positive indications occasionally had been noted for Cesium-137 however during 2018 there were no positive Cesium-137 results reported. As expected, there were no results in any sediment sample that indicated any direct influence from CPNPP discharges to the local environment.

During the year 2018, there were no exceptions to the Sediment Program

H. Fish Program

Fish samples were collected at two locations. One monitoring location is an area approximately two miles east-northeast of the site on Squaw Creek Reservoir. The second location is on Lake Granbury approximately eight miles north-northeast of the site. Fish sampling is scheduled for the months of April and November. The collected fish are frozen and shipped to the independent laboratory where the edible portions are analyzed for gamma emitting radio-nuclides. Annually, tritium analysis is performed on Squaw Creek fish (CR-2014-013335).

Catfish and Bass samples were analyzed. There were no positive results reported except for the expected Potassium-40, which is naturally occurring in all living organisms. All required radionuclide results were reported as less than the required LLDs. As a result of the fish-sampling program, there were no anomalies noted and no indication of any influence on the surrounding environment from Comanche Peak plant discharges.

No abnormal results were reported by CPNPP or by the State of Texas. As expected, Potassium-40 was the only positive isotope found.

During the year 2018 there were no exceptions to the Fish Program.

I. Food Products Program

Food products (pecans) were collected at the time of harvest. The samples are obtained at monitoring location ENE-9.0 at the time of harvest and are shipped to the contract laboratory for gamma isotopic analysis. There were food products (cucumbers, tomatoes, squash) produced that required monitoring for location E-4.2 in 2018.

Naturally occurring Potassium 40 was detected in the samples as expected and all other required radionuclide results were reported as less than the required LLDs.

During the year 2018, there were no exceptions to the Food Products Program.

J. Broadleaf Program

Broadleaf sample collection is conducted in accordance with the requirements of the Radiological Environmental Monitoring Program. The program specifies the sampling based on the absence of milk monitoring locations. One broadleaf control location is located at SW-13.5 in the vicinity of the previous control milk location. The two indicator locations, N-1.45 and SW-1.0, are located near the site boundaries. The broadleaf samples consist of mainly native grasses and are analyzed for Iodine-131 and gamma emitting isotopes.

All radionuclide analysis met their required LLDs. The naturally occurring radionuclides of Potassium-40 was found in 36 of 36 samples taken and radionuclide Beryllium-7 was present in 35 of 36 samples.

During the year 2018, there were no exception to the Broadleaf Program.

K. Conclusions

Based on the results presented in this report and from comparisons with the pre-operational and operational program results from previous years, it can be concluded that the impact of Comanche Peak on the environment is minimal. The only indication directly attributable to Comanche Peak is the tritium detected in Squaw Creek reservoir.

The tritium in Squaw Creek reservoir is reaching equilibrium and is expected to remain well below the reportable level.

Gross beta trend indications concerning Squaw Creek Reservoir are consistent with previous values and do not indicate any increase due to influence from Comanche Peak. Future data will be evaluated as it is received and will be addressed as necessary.

There were no values reported during the year 2018 that exceeded any NRC reportable limit.

L. Inter Laboratory Comparison and Cross Check Program

GEL Laboratories LLC

GEL Laboratories LLC is the independent contract laboratory that processes the radiological environmental monitoring samples collected by CPNPP. The contract laboratory is required to participate in an Interlaboratory Comparison Program in accordance with the ODCM Control 3.12.3. GEL participates in multiple programs to ensure all environmental media sent to them are analyzed to the proper standards.

GEL Laboratories, LLC (GEL) is a privately owned environmental laboratory. GEL was established as an analytical testing laboratory in 1981. Now a full service lab, their analytical divisions use state of the art equipment and methods to provide a comprehensive array of organic, inorganic, and radiochemical analyses.

GEL administers the QA program in accordance with the Quality Assurance Plan, GL-QSB-001. Their Quality Systems include all quality assurance (QA) policies and quality control (QC) procedures necessary to plan, implement, and assess the work they perform. GEL's QA Program establishes a quality management system (QMS) that governs all of the activities of their organization.

GEL Laboratories NUPIC Audit

Summary

The NUPIC Audit was conducted at GEL Laboratories, 2040 Savage Road, Charleston, SC 29407 during the time period of October 17th-21st, 2016. A Technical Specialist, conducted tours, observations, interviews, reviewed Standard Operating Procedures, and reviewed data. Radiochemical, Radiation Environmental Monitoring Program (REMP), Radiological Effluent, and Ground Water analyses were observed in the various laboratories. Previous Technical Audit reports from GEL were reviewed prior to the audit visit. Recommended actions or deltas from previous audits were pursued during this visit to see how GEL had reconciled these previously identified issues. Additionally, known deviations (data error reports) in data reporting from working through with GEL through EnRad Laboratories were a topic of interest. GEL's Quality Assurance Plan is designed to comply with the specifications outlined in the following NUPIC recognized documents: ANSI N42.23-1996 Measurement and Associated Instrument Quality Assurance for Radiobioassay Laboratories, 10 CFR Part 21 – Reporting of Defects and Noncompliance, 10 CFR Part 50 Appendix B – Quality Assurance Criteria for Nuclear Power Plants and Fuel Reprocessing Plants, 10 CFR Part 61 – Licensing Requirements for Land Disposal of Radioactive Waste, NRC Reg Guide 4.8, and NRC Reg Guide 4.15. At the conclusion of the technical audit, it was found that GEL is in compliance with the quality control standards imposed by the above regulations and those of their Quality Assurance Plan and Standard Operating Procedures.

Technical Specialist Conclusion

The results of this audit were discussed during the Exit Meeting on October 21st, 2016. It was found that GEL is in compliance with the quality control standards imposed by the specifications outlined in the following NUPIC recognized documents: ANSI N42.23-1996 - Measurement and Associated Instrument Quality Assurance for Radiobioassay Laboratories, 10 CFR Part 21 – Reporting of Defects and Noncompliance, 10 CFR Part 50 Appendix B – Quality Assurance Criteria for Nuclear Power Plants and Fuel Reprocessing Plants, 10 CFR Part 61 – Licensing Requirements for Land Disposal of Radioactive Waste, NRC Reg Guide 4.8, and NRC Reg Guide 4.15, and the requirements of their Quality Assurance Plan and their Standard Operating Procedures.

Appendix A Gel Environmental Lab Results

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2018 ANNUAL QUALITY ASSURANCE REPORT

FOR THE

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM (REMP)

2018 ANNUAL QUALITY ASSURANCE REPORT

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RADIOLOGICAL ENVIRONMENTAL

MONITORING PROGRAM (REMP)

Approved By  March 8, 2019

Robert L. Pullano
Director, Quality Systems

Date

Rev. 1

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2018 ANNUAL QUALITY ASSURANCE REPORT FOR THE RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM (REMP)

1. Introduction

GEL Laboratories, LLC (GEL) is a privately owned environmental laboratory dedicated to providing personalized client services of the highest quality. GEL was established as an analytical testing laboratory in 1981. Now a full service lab, our analytical divisions use state of the art equipment and methods to provide a comprehensive array of organic, inorganic, and radiochemical analyses to meet the needs of our clients.

At GEL, quality is emphasized at every level of personnel throughout the company. Management's ongoing commitment to good professional practice and to the quality of our testing services to our customers is demonstrated by their dedication of personnel and resources to develop, implement, assess, and improve our technical and management operations.

The purpose of GEL's quality assurance program is to establish policies, procedures, and processes to meet or exceed the expectations of our clients. To achieve this, all personnel that support these services to our clients are introduced to the program and policies during their initial orientation, and annually thereafter during company-wide training sessions.

GEL's primary goals are to ensure that all measurement data generated are scientifically and legally defensible, of known and acceptable quality per the data quality objectives (DQOs), and thoroughly documented to provide sound support for environmental decisions. In addition, GEL continues to ensure compliance with all contractual requirements, environmental standards, and regulations established by local, state and federal authorities.

GEL administers the QA program in accordance with the Quality Assurance Plan, GL-QS-B-001. Our Quality Systems include all quality assurance (QA) policies and quality control (QC) procedures necessary to plan, implement, and assess the work we perform. GEL's QA Program establishes a quality management system (QMS) that governs all of the activities of our organization.

This report entails the quality assurance program for the proficiency testing and environmental monitoring aspects of GEL for 2018. GEL's QA Program is designed to monitor the quality of analytical processing associated with environmental, radiobioassay, effluent (10 CFR Part 50), and waste (10 CFR Part 61) sample analysis.

This report covers the category of Radiological Environmental Monitoring Program (REMP) and includes:

- Intra-laboratory QC results analyzed during 2018.
- Inter-laboratory QC results analyzed during 2018 where known values are available.

2. Quality Assurance Programs for Inter-laboratory, Intra-laboratory and Third Party Cross-Check

In addition to internal and client audits, our laboratory participates in annual performance evaluation studies conducted by independent providers. We routinely participate in the following types of performance audits:

- Proficiency testing and other inter-laboratory comparisons
- Performance requirements necessary to retain Certifications
- Evaluation of recoveries of certified reference and in-house secondary reference materials using statistical process control data.
- Evaluation of relative percent difference between measurements through SPC data.

We also participate in a number of proficiency testing programs for federal and state agencies and as required by contracts. It is our policy that no proficiency evaluation samples be analyzed in any special manner. Our annual performance evaluation participation generally includes a combination of studies that support the following:

- US Environmental Protection Agency Discharge Monitoring Report, Quality Assurance Program (DMR-QA). Annual national program sponsored by EPA for laboratories engaged in the analysis of samples associated with the NPDES monitoring program. Participation is mandatory for all holders of NPDES permits. The permit holder must analyze for all of the parameters listed on the discharge permit. Parameters include general chemistry, metals, BOD/COD, oil and grease, ammonia, nitrates, etc.

- Department of Energy Mixed Analyte Performance Evaluation Program (MAPEP). A semiannual program developed by DOE in support of DOE contractors performing waste analyses. Participation is required for all laboratories that perform environmental analytical measurements in support of environmental management activities. This program includes radioactive isotopes in water, soil, vegetation and air filters.

- ERA's MRAD-Multimedia Radiochemistry Proficiency test program. This program is for labs seeking certification for radionuclides in wastewater and solid waste. The program is conducted in strict compliance with USEPA National Standards for Water Proficiency study.

- ERA's InterLaB RadCheM Proficiency Testing Program for radiological analyses. This program completes the process of replacing the USEPA EMSL-LV Nuclear Radiation Assessment Division program discontinued in 1998. Laboratories seeking certification for radionuclide analysis in drinking water also use the study. This program is conducted in strict compliance with the USEPA National Standards for Water Proficiency Testing Studies. This program encompasses Uranium by EPA method 200.8 (for drinking water certification in Utah/Primary NELAP), gamma emitters, Gross Alpha/Beta, Iodine-131, naturally occurring radioactive isotopes, Strontium-89/90, and Tritium.

- ERA's Water Pollution (WP) biannual program for waste methodologies includes parameters for both organic and inorganic analytes.

- ERA's Water Supply (WS) biannual program for drinking water methodologies includes parameters for organic and inorganic analytes.

- Environmental Cross-Check Program administered by Eckert & Ziegler Analytics, Inc. This program encompasses radionuclides in water, soil, milk, naturally occurring radioactive isotopes in soil and air filters.

GEL procures single-blind performance evaluation samples from Eckert & Ziegler Analytics to verify the analysis of sample matrices processed at GEL. Samples are received on a quarterly basis. GEL's Third-Party Cross-Check Program provides environmental matrices encountered in a typical nuclear utility REMP. The Third-Party Cross-Check Program is intended to meet or exceed the inter-laboratory comparison program requirements

discussed in NRC Regulatory Guide 4.15. Once performance evaluation samples have been prepared in accordance with the instructions provided by the PT provider, samples are managed and analyzed in the same manner as environmental samples from GEL's clients.

3. Quality Assurance Program for Internal and External Audits

During each annual reporting period, at least one internal assessment of each area of the laboratory is conducted in accordance with the pre-established schedule from Standard Operating Procedure for the Conduct of Quality Audits, GL-QS-E-001. The annual internal audit plan is reviewed for adequacy and includes the scheduled frequency and scope of quality control actions necessary to GEL's QA program. Internal audits are conducted at least annually in accordance with a schedule approved by the Quality Systems Director. Supplier audits are contingent upon the categorization of the supplier, and may or may not be conducted prior to the use of a supplier or subcontractor. Type I suppliers and subcontractors, regardless of how they were initially qualified, are re-evaluated at least once every three years.

In addition, prospective customers audit GEL during pre-contract audits. GEL hosts several external audits each year for both our clients and other programs. These programs include environmental monitoring, waste characterization, and radiobioassay. The following list of programs may audit GEL at least annually or up to every three years depending on the program.

- TNI, The NELAC Institute, National Environmental Laboratory Accreditation Program
- DOECAP, U.S. Department of Energy Consolidated Audit Program
- DOELAP, U.S. Department of Energy Laboratory Accreditation Program
- DOE QSAS, U.S. Department of Energy, Quality Systems for Analytical Services
- ISO/IEC 17025:2005
- A2LA, American Association for Laboratory Accreditation
- DoD ELAP, US Department of Defense Environmental Accreditation Program
- NUPIC, Nuclear Procurement Issues Committee
- South Carolina Department of Health and Environmental Control (SC DHEC)

The annual radiochemistry laboratory internal audit (18-RAD-001) was conducted in May, 2018. One (1) observation, and five (5) recommendation resulted from this assessment. By June, 2018, the appropriate laboratory staff addressed the observation and recommendations.

4. Performance Evaluation Acceptance Criteria for Environmental Sample Analysis

GEL utilized an acceptance protocol based upon two performance models. For those inter-laboratory programs that already have established performance criteria for bias (i.e., MAPEP, and ERA/ELAP), GEL will utilize the criteria for the specific program. For intra-laboratory or third party quality control programs that do not have a specific acceptance criteria (i.e. the Eckert-Ziegler Analytics Environmental Cross-check Program), results will be evaluated in accordance with GEL's internal acceptance criteria.

5. Performance Evaluation Samples

Performance Evaluation (PE) results and internal quality control sample results are evaluated in accordance with GEL acceptance criteria. The first criterion concerns bias, which is defined as the deviation of any one result from the known value. The second criterion concerns precision, which deals with the ability of the measurement to be

replicated by comparison of an individual result with the mean of all results for a given sample set.

At GEL, we also evaluate our analytical performance on a regular basis through statistical process control (SPC) acceptance criteria. Where feasible, this criterion is applied to both measures of precision and accuracy and is specific to sample matrix. We establish environmental process control limits at least annually.

For Radiochemistry analysis, quality control evaluation is based on static limits rather than those that are statistically derived. Our current process control limits are maintained in GEL's AlphaLIMS. We also measure precision with matrix duplicates and/or matrix spike duplicates. The upper and lower control limits (UCL and LCL respectively) for precision are plus or minus three times the standard deviation from the mean of a series of relative percent differences. The static precision criteria for radiochemical analyses are 0 - 20%, for activity levels exceeding the contract required detection limit (CRDL).

6. Quality Control Program for Environmental Sample Analysis

GEL's internal QA Program is designed to include QC functions such as instrumentation calibration checks (to insure proper instrument response), blank samples, instrumentation backgrounds, duplicates, as well as overall staff qualification analyses and statistical process controls. Both quality control and qualification analyses samples are used to be as similar as the matrix type of those samples submitted for analysis by the various laboratory clients. These performance test samples (or performance evaluation samples) are either actual sample submitted in duplicate in order to evaluate the precision of laboratory measurements, or fortified blank samples, which have been given a known quantity of a radioisotope that is in the interest to GEL's clients.

Accuracy (or Bias) is measured through laboratory control samples and/or matrix spikes, as well as surrogates and internal standards. The UCLs and LCLs for accuracy are plus or minus three times the standard deviation from the mean of a series of recoveries. The static limit for most radiochemical analyses is 75 - 125%. Specific instructions for out-of-control situations are provided in the applicable analytical SOP.

GEL's Laboratory Control Standard (LCS) is an aliquot of reagent water or other blank matrix to which known quantities of the method analytes are added in the laboratory. The LCS is analyzed exactly like a sample, and its purpose is to determine whether the methodology is in control, and whether the laboratory is capable of making accurate and precise measurements. Some methods may refer to these samples as Laboratory Fortified Blanks (LFB). The requirement for recovery is between 75 and 125% for radiological analyses excluding drinking water matrix.

$$\text{Bias (\%)} = \frac{\text{(observed concentration)}}{\text{(known concentration)}} * 100\ \%$$

Precision is a data quality indicator of the agreement between measurements of the same property, obtained under similar conditions, and how well they conform to themselves. Precision is usually expressed as standard deviation, variance or range in either absolute or relative (percentage) terms.

GEL's laboratory duplicate (DUP or LCSD) is an aliquot of a sample taken from the same container and processed in the same manner under identical laboratory conditions. The aliquot is analyzed independently from the parent sample and the results are compared to measure precision and accuracy.

If a sample duplicate is analyzed, it will be reported as Relative Percent Difference (RPD). The RPD must be 20 percent or less, if both samples are greater than 5 times the MDC. If both results are less than 5 times MDC, then the RPD must be equal to or less than 100%.

If one result is above the MDC and the other is below the MDC, then the RPD can be calculated using the MDC for the result of the one below the MDC. The RPD must be 100% or less. In the situation where both results are above the MDC but one result is greater than 5 times the MDC and the other is less than 5 times the MDC, the RPD must be less than or equal to 20%. If both results are below MDC, then the limits on % RPD are not applicable.

$$\text{Difference (\%)} = \frac{(\text{high duplicate result} - \text{low duplicate result})}{(\text{average of results})} * 100\ \%$$

7. Summary of Data Results

During 2018, forty-five (45) radioisotopes associated with seven (7) matrix types were analyzed under GEL's Performance Evaluation program in participation with ERA, MAPEP, and Eckert & Ziegler Analytics. Matrix types were representative of client analyses performed during 2018. Of the four hundred fifty-two (452) total results, 98.4% (445 of 452) were found to be acceptable within the PT providers three sigma or other statistical criteria. The list below contains the type of matrix evaluated by GEL.

- Air Filter
- Cartridge
- Water
- Milk
- Soil
- Liquid
- Vegetation

Graphs are provided in Figures 1-9 of this report to allow for the evaluation of trends or biases. These graphs include radioisotopes Cobalt-60, Cesium-137, Tritium, Strontium-90, Gross Alpha, Gross Beta, Iodine-131, Americium-241, and Plutonium-238.

8. Summary of Participation in the Eckert & Ziegler Analytics Environmental Cross-Check Program

Eckert & Ziegler Analytics provided samples for ninety-two (92) individual environmental analyses. The accuracy of each result reported to Eckert & Ziegler Analytics, Inc. is measured by the ratio of GEL's result to the known value. All results fell within GEL's acceptance criteria (100% within acceptance).

9. Summary of Participation in the MAPEP Monitoring Program

MAPEP Series 38 and 39 were analyzed by the laboratory. All one hundred twenty-four (124) analyses fell within the PT provider's acceptance criteria (100% within acceptance).

10. Summary of Participation in the ERA MRaD PT Program

The ERA MRad program provided samples (MRAD-28 and MRAD-29) for one hundred eighty-seven (187) individual environmental analyses. Of the 187 analyses, 97.3% (182 out of 187) of all results fell within the PT provider's acceptance criteria.

11. Summary of Participation in the ERA PT Program

The ERA program provided samples (RAD-112 and RAD-114) for forty-nine (49) individual environmental analyses. Of the 49 analyses, 95.9% (47 out of 49) of all results fell within the PT provider's acceptance criteria.

CARR180226-1150 documents the unacceptable result of Natural Uranium (and mass) via KPA of ERA Study 112, CARR180522-1154 documents the unacceptable results of Uranium-234, Uranium-238, Uranium-Mass and Cobalt-60 in vegetation of ERA MRAD-28, and CARR 181120-1190 documents the unacceptable result of Iron-55 in water of ERA MRAD-29. All corrective actions are summarized in Table 8.

12. Corrective Action Request and Report (CARR)

There are two categories of corrective action at GEL. One is corrective action implemented at the analytical and data review level in accordance with the analytical SOP. The other is formal corrective action documented by the Quality Systems Team in accordance with GL-QS-E-002. A formal corrective action is initiated when a nonconformance reoccurs or is so significant that permanent elimination or prevention of the problem is required. Formal corrective action investigations include root cause analysis.

GEL includes quality requirements in most analytical standard operating procedures to ensure that data are reported only if the quality control criteria are met or the quality control measures that did not meet the acceptance criteria are documented. A formal corrective action is implemented according to GL-QS-E-002 for Conducting Corrective/Preventive Action and Identifying Opportunities for Improvement. Recording and documentation is performed following guidelines stated in GL-QS-E-012 for Client NCR Database Operation.

Any employee at GEL can identify and report a nonconformance and request that corrective action be taken. Any GEL employee can participate on a corrective action team as requested by the QS team or Group Leaders. The steps for conducting corrective action are detailed in GL-QS-E-002. In the event that correctness or validity of the laboratory's test results in doubt, the laboratory will take corrective action. If investigations show that the results have been impacted, affected clients will be informed of the issue in writing within five (5) calendar days of the discovery.

Table 8 provides the status of CARRs for radiological performance testing during 2018. **It has been determined that causes of the failures did not impact any data reported to our clients.**

13. References

1. GEL Quality Assurance Plan, GL-QS-B-001
2. GEL Standard Operating Procedure for the Conduct of Quality Audits, GL-QS-E-001
3. GEL Standard Operating Procedure for Conducting Corrective/Preventive Action and Identifying Opportunities for Improvement, GL-QS-E-002
4. GEL Standard Operating Procedure for AlphaLIMS Documentation of Nonconformance Reporting and Dispositioning and Control of Nonconforming Items, GL-QS-E-004
5. GEL Standard Operating Procedure for Handling Proficiency Evaluation Samples, GL-QS-E-013
6. GEL Standard Operating Procedure for Quality Assurance Measurement Calculations and Processes, GL-QS-E-014
7. 40 CFR Part 136 Guidelines Establishing Test Procedures for the Analysis of Pollutants
8. ISO/IEC 17025-2005, General Requirements for the Competence of Testing and Calibration Laboratories
9. ANSI/ASQC E4-1994, Specifications and Guidelines for Quality Systems for Environmental Data Collection and Environmental Technology Programs, American National Standard
10. 2003 NELAC Standard, National Environmental Laboratory Accreditation Program
11. 2009 TNI Standard, The NELAC Institute, National Environmental Accreditation Program
12. MARLAP, Multi-Agency Radiological Laboratory Analytical Protocols
13. 10 CFR Part 21, Reporting of Defects and Noncompliance
14. 10 CFR Part 50 Appendix B, Quality Assurance Criteria for Nuclear Power Plants and Fuel Reprocessing Plants
15. 10 CFR Part 61, Licensing Requirements for Land Disposal and Radioactive Waste
16. NRC REG Guide 4.15 and NRC REG Guide 4.8

TABLE 1

2018 RADIOLOGICAL PROFICIENCY TESTING RESULTS AND ACCEPTANCE CRITERIA

PT Provider	Quarter / Year	Report Closing / Received Date	Sample Number	Sample Media	Units	Analyte	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation
ERA	1st / 2018	2/26/18	RAD-112	Water	pCi/L	Barium-133	97.6	95.1	80.2 - 105	Acceptable
ERA	1st / 2018	2/26/18	RAD-112	Water	pCi/L	Cesium-134	64.9	65.6	53.4 - 72.2	Acceptable
ERA	1st / 2018	2/26/18	RAD-112	Water	pCi/L	Cesium-137	117	112	101 - 126	Acceptable
ERA	1st / 2018	2/26/18	RAD-112	Water	pCi/L	Cobalt-60	122	114	103 - 126	Acceptable
ERA	1st / 2018	2/26/18	RAD-112	Water	pCi/L	Zinc-65	320	277	249 - 324	Acceptable
ERA	1st / 2018	2/26/18	RAD-112	Water	pCi/L	Gross Alpha	67.7	72.4	38.1 - 89.2	Acceptable
ERA	1st / 2018	2/26/18	RAD-112	Water	pCi/L	Gross Alpha	66.4	72.4	38.1 - 89.2	Acceptable
ERA	1st / 2018	2/26/18	RAD-112	Water	pCi/L	Gross Beta	47.6	54.8	37.5 - 61.7	Acceptable
ERA	1st / 2018	2/26/18	RAD-112	Water	pCi/L	Radium-226	16.2	14.2	10.6 - 16.3	Acceptable
ERA	1st / 2018	2/26/18	RAD-112	Water	pCi/L	Radium-226	16.3	14.2	10.6 - 16.3	Acceptable
ERA	1st / 2018	2/26/18	RAD-112	Water	pCi/L	Radium-226	5	4.21	2.43 - 5.81	Acceptable
ERA	1st / 2018	2/26/18	RAD-112	Water	pCi/L	Radium-228	4.44	4.21	2.43 - 5.81	Acceptable
ERA	1st / 2018	2/26/18	RAD-112	Water	pCi/L	Radium-228	65.4	58.6	47.8 - 64.5	Acceptable
ERA	1st / 2018	2/26/18	RAD-112	Water	pCi/L	Uranium (Nat)	56.4	58.6	47.8-64.5	Acceptable
ERA	1st / 2018	2/26/18	RAD-112	Water	pCi/L	Uranium (Nat)	65.4	58.6	47.8 - 64.5	Not Acceptable
ERA	1st / 2018	2/26/18	RAD-112	Water	µg/L	Uranium (Nat) mass	97.6	86.2	70.3 - 94.9	Not Acceptable
ERA	1st / 2018	2/26/18	RAD-112	Water	µg/L	Uranium (Nat) mass	93.3	86.2	70.3 - 94.9	Acceptable
ERA	1st / 2018	2/26/18	RAD-112	Water	pCi/L	Tritium	20000	21200	18600 - 23300	Acceptable
ERA	1st / 2018	2/26/18	RAD-112	Water	pCi/L	Tritium	20200	21200	18600 - 23300	Acceptable
ERA	1st / 2018	2/26/18	RAD-112	Water	pCi/L	Strontium-89	59.7	65.2	52.9 - 73.2	Acceptable
ERA	1st / 2018	2/26/18	RAD-112	Water	pCi/L	Strontium-89	68.6	65.2	52.9 - 73.2	Acceptable
ERA	1st / 2018	2/26/18	RAD-112	Water	pCi/L	Strontium-90	36.1	39.2	28.8 - 45.1	Acceptable
ERA	1st / 2018	2/26/18	RAD-112	Water	pCi/L	Strontium-90	36.9	39.2	28.8 - 45.1	Acceptable
ERA	1st / 2018	2/26/18	RAD-112	Water	pCi/L	Iodine-131	25.3	28.1	23.4 - 33.0	Acceptable
ERA	1st / 2018	2/26/18	RAD-112	Water	pCi/L	Iodine-131	28.7	28.1	23.4 - 33.0	Acceptable
EZA	1st / 2018	05/11/18	E12100	Cartridge	pCi	Iodine-131	9.20E+01	8.52E+01	0.97	Acceptable
EZA	1st / 2018	05/11/18	E12101	Milk	pCi/L	Strontium-89	9.16E+01	9.01E+01	1.02	Acceptable
EZA	1st / 2018	05/11/18	E12101	Milk	pCi/L	Strontium-90	8.00E+01	1.25E+02	0.64	Acceptable
EZA	1st / 2018	05/11/18	E12102	Milk	pCi/L	Iodine-131	1.05E+02	1.08E+02	0.97	Acceptable
EZA	1st / 2018	05/11/18	E12102	Milk	pCi/L	Cerium-141	7.23E+01	7.70E+01	0.94	Acceptable
EZA	1st / 2018	05/11/18	E12102	Milk	pCi/L	Cobalt-58	1.11E+02	1.14E+02	0.97	Acceptable
EZA	1st / 2018	05/11/18	E12102	Milk	pCi/L	Cobalt-60	1.90E+02	1.87E+02	1.02	Acceptable
EZA	1st / 2018	05/11/18	E12102	Milk	pCi/L	Chromium-51	3.00E+02	3.26E+02	0.92	Acceptable
EZA	1st / 2018	05/11/18	E12102	Milk	pCi/L	Cesium-134	1.58E+02	1.80E+02	0.88	Acceptable
EZA	1st / 2018	05/11/18	E12102	Milk	pCi/L	Cesium-137	1.75E+02	1.72E+02	1.02	Acceptable
EZA	1st / 2018	05/11/18	E12102	Milk	pCi/L	Manganese-54	1.36E+02	1.31E+02	1.04	Acceptable
EZA	1st / 2018	05/11/18	E12102	Milk	pCi/L	Iron-59	1.52E+02	1.39E+02	1.10	Acceptable
EZA	1st / 2018	05/11/18	E12102	Milk	pCi/L	Zinc-65	2.73E+02	2.44E+02	1.12	Acceptable
EZA	1st / 2018	05/11/18	E12103	Water	pCi/L	Iodine-131	9.37E+01	9.10E+01	1.03	Acceptable
EZA	1st / 2018	05/11/18	E12103	Water	pCi/L	Cerium-141	7.86E+01	7.34E+01	1.07	Acceptable
EZA	1st / 2018	05/11/18	E12103	Water	pCi/L	Chromium-51	3.44E+02	3.10E+02	1.11	Acceptable
EZA	1st / 2018	05/11/18	E12103	Water	pCi/L	Cesium-134	1.61E+02	1.71E+02	0.94	Acceptable
EZA	1st / 2018	05/11/18	E12103	Water	pCi/L	Cesium-137	1.64E+02	1.64E+02	1.00	Acceptable
EZA	1st / 2018	05/11/18	E12103	Water	pCi/L	Cobalt-58	1.92E+02	1.78E+02	1.08	Acceptable

EZA	1st / 2018	05/11/18	E12103	Water	pCi/L	Manganese-54	1.36E+02	1.25E+02	1.09	Acceptable
EZA	1st / 2018	05/11/18	E12103	Water	pCi/L	Iron-59	1.48E+02	1.32E+02	1.12	Acceptable
EZA	1st / 2018	05/11/18	E12103	Water	pCi/L	Zinc-65	2.53E+02	2.33E+02	1.09	Acceptable
EZA	1st / 2018	05/11/18	E12103	Water	pCi/L	Cobalt-60	1.92E+02	1.78E+02	1.08	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Soil	pCi/kg	Actinium-228	1300	1240	818 - 1560	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Soil	pCi/kg	Americium-241	97	74.7	40.3 - 106	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Soil	pCi/kg	Bismuth-212	1410	1240	355 - 1850	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Soil	pCi/kg	Bismuth-214	1200	1760	845 - 2620	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Soil	pCi/kg	Cesium-134	4780	5330	3640 - 6370	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Soil	pCi/kg	Cesium-137	4150	4210	3180 - 5320	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Soil	pCi/kg	Cobalt-60	7880	8060	6350 - 9950	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Soil	pCi/kg	Lead-212	1210	1240	865 - 1570	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Soil	pCi/kg	Lead-214	1470	1850	777 - 2910	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Soil	pCi/kg	Plutonium-238	1460	1470	733 - 2230	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Soil	pCi/kg	Plutonium-239	1240	1330	725 - 1910	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Soil	pCi/kg	Potassium-40	10300	10600	7300 - 12700	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Soil	pCi/kg	Strontium-90	2950	4500	1400 - 7010	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Soil	pCi/kg	Thorium-234	2240	1800	680 - 3080	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Soil	pCi/kg	Uranium-234	2190	1820	853 - 2380	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Soil	pCi/kg	Uranium-234	1830	1820	853 - 2380	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Soil	pCi/kg	Uranium-234	1160	1820	853 - 2380	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Soil	pCi/kg	Uranium-238	1530	1800	988 - 2420	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Soil	pCi/kg	Uranium-238	2000	1800	988 - 2420	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Soil	pCi/kg	Uranium-238	2020	1800	988 - 2420	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Soil	pCi/kg	Uranium-Total	4670	3700	2050 - 4780	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Soil	pCi/kg	Uranium-Total	4210	3700	2050 - 4780	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Soil	pCi/kg	Uranium-Total	4020	3700	2050 - 4780	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Soil	pCi/kg	Uranium-Total	2690	3700	2050 - 4780	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Soil	µg/kg	U-Total (mass)	6030	5400	2440 - 7290	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Soil	µg/kg	U-Total (mass)	4880	5400	2440 - 7290	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Soil	µg/kg	U-Total (mass)	6050	5400	2440 - 7290	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Soil	µg/kg	U-Total (mass)	8970	5400	2440 - 7290	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Soil	pCi/kg	Zinc-65	2150	1990	1590 - 2710	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Veg.	pCi/kg	Americium-241	3900	3880	2400 - 5480	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Veg.	pCi/kg	Cesium-134	2150	1950	1290 - 2600	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Veg.	pCi/kg	Cesium-137	2720	2160	1660 - 2910	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Veg.	pCi/kg	Cobalt-60	672	491	385 - 642	Not Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Veg.	pCi/kg	Curium-244	2620	2630	1480 - 3270	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Veg.	pCi/kg	Manganese-54	<32.9	<300	<300	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Veg.	pCi/kg	Plutonium-238	2370	2020	1400 - 2600	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Veg.	pCi/kg	Plutonium-239	4760	4160	2880 - 5270	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Veg.	pCi/kg	Potassium-40	37500	30900	23200 - 39100	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Veg.	pCi/kg	Strontium-90	3220	3330	1880 - 4340	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Veg.	pCi/kg	Uranium-234	5220	4050	2850 - 5170	Not Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Veg.	pCi/kg	Uranium-238	5150	4010	2830 - 5020	Not Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Veg.	pCi/kg	Uranium-Total	10800	8240	5260 - 11100	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Veg.	µg/kg	U-Total (mass)	15500	12100	9290 - 15000	Not Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Veg.	pCi/kg	Zinc-65	3420	2400	1790 - 3560	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Veg.	pCi/kg	Uranium-Total	5690	6290	4260 - 7830	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Veg.	pCi/kg	Uranium-Total	6238	6290	4260 - 7830	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Veg.	µg/kg	U-Total (mass)	8910	9250	6200 - 11700	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Veg.	µg/kg	U-Total (mass)	8440	9250	6200 - 11700	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Veg.	µg/kg	U-Total (mass)	9030	9250	6200 - 11700	Acceptable

ERA	2nd/2018	05/22/18	MRAD-28	Veg.	pCi/kg	Zinc-65	907	853	615 - 1200	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Filter	pCi/Filter	Americium-241	80.6	76.4	47.1 - 103	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Filter	pCi/Filter	Cesium-134	1140	1100	700 - 1360	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Filter	pCi/Filter	Cesium-137	1490	1390	1040 - 1830	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Filter	pCi/Filter	Cobalt-60	1120	1030	797 - 1290	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Filter	pCi/Filter	Iron-55	242	256	79.4 - 500	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Filter	pCi/Filter	Manganese-54	<7.53	<50.0	0.00 - 50.0	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Filter	pCi/Filter	Plutonium-238	54.1	54.3	37.2 - 71.4	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Filter	pCi/Filter	Plutonium-239	58.2	62	44.9 - 81.0	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Filter	pCi/Filter	Strontium-90	52.2	52.4	25.6 - 78.5	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Filter	pCi/Filter	Uranium-234	71.1	73.1	45.3 - 110	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Filter	pCi/Filter	Uranium-234	79	73.1	45.3 - 110	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Filter	pCi/Filter	Uranium-238	70.7	72.4	46.8 - 100	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Filter	pCi/Filter	Uranium-238	77.1	72.4	46.8 - 100	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Filter	pCi/Filter	Uranium-Total	154	149	82.5 - 227	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Filter	pCi/Filter	Uranium-Total	145	149	82.5 - 227	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Filter	pCi/Filter	Uranium-Total	159.5	149	82.5 - 227	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Filter	µg/Filter	U-Total (mass)	230	217	139 - 306	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Filter	µg/Filter	U-Total (mass)	212	217	139 - 306	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Filter	µg/Filter	U-Total (mass)	231	217	139 - 306	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Filter	pCi/Filter	Zinc-65	1160	984	705 - 1360	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Filter	pCi/Filter	Gross Alpha	112	85.5	28.6 - 133	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Filter	pCi/Filter	Gross Beta	54.9	45.2	28.6 - 65.9	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Water	pCi/L	Americium-241	150	140	94.3 - 188	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Water	pCi/L	Cesium-134	2380	2510	1840 - 2880	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Water	pCi/L	Cesium-137	1480	1400	1190 - 1680	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Water	pCi/L	Cobalt-60	2570	2540	2210 - 2970	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Water	pCi/L	Iron-55	923	984	587 - 1340	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Water	pCi/L	Manganese-54	<6.36	<100	0.00 - 100	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Water	pCi/L	Plutonium-238	108	128	94.7 - 159	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Water	pCi/L	Plutonium-239	73.3	85.8	66.6 - 108	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Water	pCi/L	Strontium-90	686	714	465 - 944	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Water	pCi/L	Uranium-234	82.1	90.3	67.8 - 116	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Water	pCi/L	Uranium-234	92	90.3	67.8 - 116	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Water	pCi/L	Uranium-234	87.1	90.3	67.8 - 116	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Water	pCi/L	Uranium-238	86.7	89.5	68.2 - 110	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Water	pCi/L	Uranium-238	84.1	89.5	68.2 - 110	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Water	pCi/L	Uranium-238	98	89.5	68.2 - 110	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Water	pCi/L	Uranium-Total	181	184	135 - 238	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Water	pCi/L	Uranium-Total	173	184	135 - 238	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Water	pCi/L	Uranium-Total	180	184	135 - 238	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Water	pCi/L	Uranium-Total	185	184	135 - 238	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Water	µg/L	U-Total (mass)	270	268	214 - 324	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Water	µg/L	U-Total (mass)	260	268	214 - 324	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Water	µg/L	U-Total (mass)	252	268	214 - 324	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Water	µg/L	U-Total (mass)	276	268	214 - 324	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Water	pCi/L	Zinc-65	2160	1960	1630 - 2470	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Water	pCi/L	Gross Alpha	125	89.5	31.8 - 139	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Water	pCi/L	Gross Beta	59.6	61	34.9 - 90.4	Acceptable
ERA	2nd/2018	05/22/18	MRAD-28	Water	pCi/L	Tritium	18900	19400	13000 - 27700	Acceptable
EZA	2nd/2018	07/07/18	E12171	Cartridge	pCi	Iodine-131	7.22E+01	7.16E+01	1.01	Acceptable
EZA	2nd/2018	07/07/18	E12172	Milk	pCi/L	Strontium-89	9.58E+01	8.46E+01	1.13	Acceptable
EZA	2nd/2018	07/07/18	E12172	Milk	pCi/L	Strontium-90	8.47E+00	1.14E+01	0.74	Acceptable

EZA	2nd/2018	07/07/18	E12173	Milk	pCi/L	Iodine-131	7.89E+01	7.19E+01	1.10	Acceptable
EZA	2nd/2018	07/07/18	E12173	Milk	pCi/L	Cerium-141	9.01E+01	8.22E+01	1.10	Acceptable
EZA	2nd/2018	07/07/18	E12173	Milk	pCi/L	Cobalt-58	9.26E+01	8.90E+01	1.04	Acceptable
EZA	2nd/2018	07/07/18	E12173	Milk	pCi/L	Cobalt-60	1.18E+02	1.13E+02	1.04	Acceptable
EZA	2nd/2018	07/07/18	E12173	Milk	pCi/L	Chromium-51	2.56E+02	2.39E+02	1.08	Acceptable
EZA	2nd/2018	07/07/18	E12173	Milk	pCi/L	Cesium-134	1.10E+02	1.14E+02	0.97	Acceptable
EZA	2nd/2018	07/07/18	E12173	Milk	pCi/L	Cesium-137	1.04E+02	9.88E+01	1.05	Acceptable
EZA	2nd/2018	07/07/18	E12173	Milk	pCi/L	Manganese-54	1.42E+02	1.30E+02	1.09	Acceptable
EZA	2nd/2018	07/07/18	E12173	Milk	pCi/L	Iron-59	8.87E+01	8.60E+01	1.03	Acceptable
EZA	2nd/2018	07/07/18	E12173	Milk	pCi/L	Zinc-65	1.83E+02	1.57E+02	1.16	Acceptable
EZA	2nd/2018	07/07/18	E12174	Water	pCi/L	Iodine-131	7.31E+01	7.44E+01	0.98	Acceptable
EZA	2nd/2018	07/07/18	E12174	Water	pCi/L	Cerium-141	1.02E+02	8.58E+01	1.19	Acceptable
EZA	2nd/2018	07/07/18	E12174	Water	pCi/L	Chromium-51	2.73E+02	2.49E+02	1.10	Acceptable
EZA	2nd/2018	07/07/18	E12174	Water	pCi/L	Cesium-134	1.06E+02	1.19E+02	0.89	Acceptable
EZA	2nd/2018	07/07/18	E12174	Water	pCi/L	Cesium-137	9.86E+01	1.03E+02	0.96	Acceptable
EZA	2nd/2018	07/07/18	E12174	Water	pCi/L	Cobalt-58	9.76E+01	9.29E+01	1.05	Acceptable
EZA	2nd/2018	07/07/18	E12174	Water	pCi/L	Manganese-54	1.47E+02	1.35E+02	1.09	Acceptable
EZA	2nd/2018	07/07/18	E12174	Water	pCi/L	Iron-59	1.08E+02	8.97E+01	1.20	Acceptable
EZA	2nd/2018	07/07/18	E12174	Water	pCi/L	Zinc-65	1.97E+02	1.64E+02	1.20	Acceptable
EZA	2nd/2018	07/07/18	E12174	Water	pCi/L	Cobalt-60	1.22E+02	1.18E+02	1.03	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-MaS38	Soil	Bq/Kg	Americium-241	1.84		False Pos Test	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-MaS38	Soil	Bq/Kg	Cesium-134	1.85		False Pos Test	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-MaS38	Soil	Bq/Kg	Cesium-137	4.85	4.6	Sens. Eval.	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-MaS38	Soil	Bq/Kg	Cobalt-57	798	826	578-1074	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-MaS38	Soil	Bq/Kg	Cobalt-60	581	560	392-728	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-MaS38	Soil	Bq/Kg	Iron-55	67		False Pos Test	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-MaS38	Soil	Bq/Kg	Manganese-54	1060	1010	707-1313	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-MaS38	Soil	Bq/Kg	Nickel-63	1.05		False Pos Test	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-MaS38	Soil	Bq/Kg	Plutonium-238	42.7	45.2	31.6-58.8	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-MaS38	Soil	Bq/Kg	Pu-239/240	46.9	50.8	35.6-66.0	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-MaS38	Soil	Bq/Kg	Potassium-40	649	577	404-750	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-MaS38	Soil	Bq/Kg	Strontium-90	-1.08		False Pos Test	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-MaS38	Soil	Bq/Kg	Technetium-99	890	980	686-1274	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-MaS38	Soil	Bq/Kg	U-234/233	58.9	52.9	37.0-68.8	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-MaS38	Soil	Bq/Kg	Uranium-238	134	141	99-183	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-MaS38	Soil	Bq/Kg	Zinc-65	1060	960	672-1248	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-MaW38	Water	Bq/L	Americium-241	0.685	0.709	0.496-0.922	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-MaW38	Water	Bq/L	Cesium-134	9.140	10.2	7.1-13.3	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-MaW38	Water	Bq/L	Cesium-137	12.8	12.2	8.5-15.9	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-MaW38	Water	Bq/L	Cobalt-57	-0.042		False Pos Test	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-MaW38	Water	Bq/L	Cobalt-60	12.1	11.6	8.1-15.0	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-MaW38	Water	Bq/L	Hydrogen-3	1.14		False Pos Test	Acceptable

MAPEP	2nd/2018	05/31/18	MAPEP-18-MaW38	Water	Bq/L	Iron-55	11.90	11.1	7.8-14.1	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-MaW38	Water	Bq/L	Manganese-54	9.35E-04		False Pos Test	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-MaW38	Water	Bq/L	Nickel-63	14.5	14.0	9.8-18.2	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-MaW38	Water	Bq/L	Plutonium-238	0.014	0.023	Sens. Eval.	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-MaW38	Water	Bq/L	Pu-239/240	0.586	0.600	0.420-0.780	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-MaW38	Water	Bq/L	Potassium-40	-0.23		False Pos Test	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-MaW38	Water	Bq/L	Radium-226	0.249	0.257	0.180-0.334	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-MaW38	Water	Bq/L	Strontium-90	10.70	11.400	8.0-14.8	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-MaW38	Water	Bq/L	Technetium-99	3.84	4.4	3.08-5.68	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-MaW38	Water	Bq/L	Uranium-234/233	0.45	0.43	0.301-0.559	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-MaW38	Water	Bq/L	Uranium-238	0.48	0.44	0.306-0.568	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-MaW38	Water	Bq/L	Zinc-65	15.7	14.30	0.0-18.6	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-RdF38	Filter	ug/sample	Uranium-235	0.076	0.0739	0.0517-0.0961	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-RdF38	Filter	ug/sample	Uranium-238	10.60	10.4	7.3-13.5	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-RdF38	Filter	ug/sample	Uranium-Total	10.68	10.5	7.4-13.7	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-RdF38	Filter	Bq/sample	Americium-241	0.0646	0.0670	0.047-0.087	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-RdF38	Filter	Bq/sample	Cesium-134	0.72	0.675	0.473-0.878	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-RdF38	Filter	Bq/sample	Cesium-137	-0.023		False Pos Test	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-RdF38	Filter	Bq/sample	Cobalt-57	1.22	1.18	0.83-1.53	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-RdF38	Filter	Bq/sample	Cobalt-60	0.010		False Pos Test	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-RdF38	Filter	Bq/sample	Manganese-54	1.08	1.03	0.72-1.34	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-RdF38	Filter	Bq/sample	Plutonium-238	0.0440	0.0445	0.0312-0.0579	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-RdF38	Filter	Bq/sample	Pu-239/240	0.0010		False Pos Test	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-RdF38	Filter	Bq/sample	Strontium-90	0.840	1.010	0.71-1.31	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-RdF38	Filter	Bq/sample	Uranium-234/233	0.121	0.124	0.087-0.161	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-RdF38	Filter	Bq/sample	Uranium-238	0.126	0.126	0.090-0.166	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-RdF38	Filter	Bq/sample	Zinc-65	1.54	1.33	0.93-1.73	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-RdV38	Veg.	Bq/sample	Americium-241	0.107	0.106	0.074-0.138	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-RdV38	Veg.	Bq/sample	Cesium-134	3.17	3.23	2.26-4.2	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-RdV38	Veg.	Bq/sample	Cesium-137	4.03	3.67	2.57-4.77	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-RdV38	Veg.	Bq/sample	Cobalt-57	4.76	4.42	3.09-5.75	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-RdV38	Veg.	Bq/sample	Cobalt-60	2.49	2.3	1.60-2.98	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-RdV38	Veg.	Bq/sample	Manganese-54	3.02	2.66	1.86-3.46	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-RdV38	Veg.	Bq/sample	Plutonium-238	0.0005		False Pos Test	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-RdV38	Veg.	Bq/sample	Pu-239/240	0.0679	0.0770	0.054-0.1	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-RdV38	Veg.	Bq/sample	Strontium-90	0.61	0.675	0.473-0.878	Acceptable

MAPEP	2nd/2018	05/31/18	MAPEP-18-RdV38	Veg.	Bq/sample	Uranium-234/233	0.21	0.179	0.125-0.233	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-RdV38	Veg.	Bq/sample	Uranium-238	0.197	0.186	0.130-0.242	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-RdV38	Veg.	Bq/sample	Zinc-65	0.02		False Pos Test	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-XaW38	Water	Bq/L	Iodine-129	2.00	1.93	1.35-2.51	Acceptable
ERA	3rd / 2018	08/23/18	RAD - 114	Water	pCi/L	Barium-133	28.5	25.6	19.9 - 29.4	Acceptable
ERA	3rd / 2018	08/23/18	RAD - 114	Water	pCi/L	Cesium-134	15.9	15.7	11.4 - 18.2	Acceptable
ERA	3rd / 2018	08/23/18	RAD - 114	Water	pCi/L	Cesium-137	196	192	173 - 213	Acceptable
ERA	3rd / 2018	08/23/18	RAD - 114	Water	pCi/L	Cobalt-60	122	119	107 - 133	Acceptable
ERA	3rd / 2018	08/23/18	RAD - 114	Water	pCi/L	Zinc-65	196	177	159 - 208	Acceptable
ERA	3rd / 2018	08/23/18	RAD - 114	Water	pCi/L	Gross Alpha	15.5	16	7.79 - 22.6	Acceptable
ERA	3rd / 2018	08/23/18	RAD - 114	Water	pCi/L	Gross Alpha	18.2	16	7.79 - 22.6	Acceptable
ERA	3rd / 2018	08/23/18	RAD - 114	Water	pCi/L	Gross Beta	43.6	49	33.2 - 56.1	Acceptable
ERA	3rd / 2018	08/23/18	RAD - 114	Water	pCi/L	Radium-226	8.44	9.08	6.81 - 10.6	Acceptable
ERA	3rd / 2018	08/23/18	RAD - 114	Water	pCi/L	Radium-228	2.72	2.28	1.07 - 3.60	Acceptable
ERA	3rd / 2018	08/23/18	RAD - 114	Water	pCi/L	Radium-228	3.3	2.28	1.07 - 3.60	Acceptable
ERA	3rd / 2018	08/23/18	RAD - 114	Water	pCi/L	Uranium (Nat)	53.6	51.8	42.2 - 57.1	Acceptable
ERA	3rd / 2018	08/23/18	RAD - 114	Water	pCi/L	Uranium (Nat)	50.3	51.8	42.2 - 57.1	Acceptable
ERA	3rd / 2018	08/23/18	RAD - 114	Water	µg/L	Uranium (Nat) mass	80.3	75.5	61.5 - 83.2	Acceptable
ERA	3rd / 2018	08/23/18	RAD - 114	Water	µg/L	Uranium (Nat) mass	78.36	75.5	61.5 - 83.2	Acceptable
ERA	3rd / 2018	08/23/18	RAD - 114	Water	µg/L	Uranium (Nat) mass	77.8	75.5	61.5 - 83.2	Acceptable
ERA	3rd / 2018	08/23/18	RAD - 114	Water	pCi/L	Tritium	19900	20400	17900 - 22400	Acceptable
ERA	3rd / 2018	08/23/18	RAD - 114	Water	pCi/L	Tritium	21200	20400	17900 - 22400	Acceptable
ERA	3rd / 2018	08/23/18	RAD - 114	Water	pCi/L	Strontium-89	61.5	62.7	50.7 - 70.6	Acceptable
ERA	3rd / 2018	08/23/18	RAD - 114	Water	pCi/L	Strontium-89	69	62.7	50.7 - 70.6	Acceptable
ERA	3rd / 2018	08/23/18	RAD - 114	Water	pCi/L	Strontium-90	34.4	40.1	29.5 - 46.1	Acceptable
ERA	3rd / 2018	08/23/18	RAD - 114	Water	pCi/L	Strontium-90	36.2	40.1	29.5 - 46.1	Acceptable
ERA	3rd / 2018	08/23/18	RAD - 114	Water	pCi/L	Iodine-131	25.6	28.1	23.4 - 33.0	Acceptable
ERA	3rd / 2018	08/23/18	RAD - 114	Water	pCi/L	Iodine-131	28.7	28.1	23.4 - 33.0	Acceptable
EZA	3rd/2018	11/12/18	E12240	Cartridge	pCi	Iodine-131	7.95E+01	8.03E+01	0.99	Acceptable
EZA	3rd/2018	11/12/18	E12241	Milk	pCi/L	Strontium-89	8.57E+01	8.17E+01	1.05	Acceptable
EZA	3rd/2018	11/12/18	E12241	Milk	pCi/L	Strontium-90	9.22E+00	1.48E+01	0.62	Acceptable
EZA	3rd/2018	11/12/18	E12242	Milk	pCi/L	Iodine-131	7.18E+01	5.82E+01	1.23	Acceptable
EZA	3rd/2018	11/12/18	E12242	Milk	pCi/L	Cerium-141	1.43E+02	1.28E+02	1.12	Acceptable
EZA	3rd/2018	11/12/18	E12242	Milk	pCi/L	Chromium-51	2.54E+02	2.65E+02	0.96	Acceptable
EZA	3rd/2018	11/12/18	E12242	Milk	pCi/L	Cesium-134	1.18E+02	1.23E+02	0.96	Acceptable
EZA	3rd/2018	11/12/18	E12242	Milk	pCi/L	Cesium-137	1.53E+02	1.47E+02	1.04	Acceptable
EZA	3rd/2018	11/12/18	E12242	Milk	pCi/L	Cobalt-58	1.54E+02	1.44E+02	1.07	Acceptable
EZA	3rd/2018	11/12/18	E12242	Milk	pCi/L	Manganese-54	1.84E+02	1.67E+02	1.09	Acceptable
EZA	3rd/2018	11/12/18	E12242	Milk	pCi/L	Iron-59	1.20E+02	1.19E+02	1.01	Acceptable
EZA	3rd/2018	11/12/18	E12242	Milk	pCi/L	Zinc-65	2.44E+02	2.01E+02	1.22	Acceptable
EZA	3rd/2018	11/12/18	E12242	Milk	pCi/L	Cobalt-60	2.02E+02	1.90E+02	1.06	Acceptable
EZA	3rd/2018	11/12/18	E12243	Water	pCi/L	Iodine-131	6.76E+01	6.25E+01	1.08	Acceptable
EZA	3rd/2018	11/12/18	E12243	Water	pCi/L	Cerium-141	1.48E+02	1.33E+02	1.11	Acceptable
EZA	3rd/2018	11/12/18	E12243	Water	pCi/L	Chromium-51	2.92E+02	2.75E+02	1.06	Acceptable
EZA	3rd/2018	11/12/18	E12243	Water	pCi/L	Cesium-134	1.20E+02	1.28E+02	0.94	Acceptable
EZA	3rd/2018	11/12/18	E12243	Water	pCi/L	Cesium-137	1.64E+02	1.54E+02	1.07	Acceptable
EZA	3rd/2018	11/12/18	E12243	Water	pCi/L	Cobalt-58	1.53E+02	1.50E+02	1.02	Acceptable
EZA	3rd/2018	11/12/18	E12243	Water	pCi/L	Manganese-54	1.91E+02	1.74E+02	1.1	Acceptable
EZA	3rd/2018	11/12/18	E12243	Water	pCi/L	Iron-59	1.39E+02	1.24E+02	1.12	Acceptable
EZA	3rd/2018	11/12/18	E12243	Water	pCi/L	Zinc-65	2.41E+02	2.09E+02	1.15	Acceptable

EZA	3rd/2018	11/12/18	E12243	Water	pCi/L	Cobalt-60	2.09E+02	1.98E+02	1.06	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Soil	pCi/kg	Actinium-228	3740	3280	2030 - 4540	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Soil	pCi/kg	Americium-241	891	937	459 - 1420	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Soil	pCi/kg	Bismuth-212	3990	3400	1810 - 4990	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Soil	pCi/kg	Bismuth-214	1310	1370	841 - 1900	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Soil	pCi/kg	Cesium-134	5710	5400	3200 - 7600	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Soil	pCi/kg	Cesium-137	4160	3910	2340 - 5480	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Soil	pCi/kg	Cobalt-60	4940	4890	3410 - 6370	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Soil	pCi/kg	Lead-212	4250	3380	2050 - 4720	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Soil	pCi/kg	Lead-214	1590	1450	883 - 2020	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Soil	pCi/kg	Manganese-54	<32.6	<1000	<1000	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Soil	pCi/kg	Plutonium-238	1090	1150	662 - 1650	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Soil	pCi/kg	Plutonium-239	735	756	561 - 950	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Soil	pCi/kg	Potassium-40	24800	24300	17300 - 31400	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Soil	pCi/kg	Strontium-90	4580	4340	2240 - 6440	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Soil	pCi/kg	Thorium-234	1610	1470	549 - 2390	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Soil	pCi/kg	Uranium-234	1730	1050	105 - 2370	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Soil	pCi/kg	Uranium-234	1230	1050	105 - 2370	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Soil	pCi/kg	Uranium-234	1060	1050	105 - 2370	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Soil	pCi/kg	Uranium-238	1210	1030	103 - 2740	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Soil	pCi/kg	Uranium-238	1100	1030	103 - 2740	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Soil	pCi/kg	Uranium-238	660	1030	103 - 2740	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Soil	pCi/kg	Uranium-Total	2320	2030	203 - 4560	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Soil	pCi/kg	Uranium-Total	1690	2030	203 - 4560	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Soil	pCi/kg	Uranium-Total	2830	2030	203 - 4560	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Soil	pCi/kg	U-Total (mass)	2010	2420	242 - 6320	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Soil	pCi/kg	U-Total (mass)	3300	2420	242 - 6320	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Soil	µg/kg	U-Total (mass)	2010	2420	242 - 6320	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Soil	µg/kg	U-Total (mass)	3620	2420	242 - 6320	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Soil	µg/kg	Zinc-65	4310	4020	2650 - 5380	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Veg.	pCi/kg	Americium-241	1770	1750	1080 - 2470	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Veg.	pCi/kg	Cesium-134	2000	1970	1310 - 2620	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Veg.	pCi/kg	Cesium-137	692	613	471 - 825	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Veg.	pCi/kg	Cobalt-60	1930	1810	1420 - 2370	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Veg.	pCi/kg	Curium-244	4840	4840	2730 - 6020	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Veg.	pCi/kg	Manganese-54	<52.1	<300	<300	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Veg.	pCi/kg	Plutonium-238	3260	3240	2240 - 4180	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Veg.	pCi/kg	Plutonium-239	3170	3070	2120 - 3890	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Veg.	pCi/kg	Potassium-40	38600	34500	25900 - 43700	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Veg.	pCi/kg	Strontium-90	6220	5930	3340 - 7730	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Veg.	pCi/kg	Uranium-234	1800	1670	1170 - 2130	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Veg.	pCi/kg	Uranium-238	1780	1660	1170 - 2080	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Veg.	pCi/kg	Uranium-Total	3710	3390	2170 - 4570	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Veg.	pCi/kg	U-Total (mass)	5360	4990	3830 - 6180	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Veg.	pCi/kg	Zinc-65	2380	2230	1660 - 3310	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Filter	pCi/Filter	Americium-241	62	64.1	45.8 - 85.5	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Filter	pCi/Filter	Cesium-134	862	921	597 - 1130	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Filter	pCi/Filter	Cesium-137	373	373	306 - 489	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Filter	pCi/Filter	Cobalt-60	1200	1130	960 - 1440	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Filter	pCi/Filter	Iron-55	899	910	332 - 1450	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Filter	pCi/Filter	Manganese-54	<5.41	<50.0	<50.0	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Filter	pCi/Filter	Plutonium-238	34.5	34.9	26.3 - 42.9	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Filter	pCi/Filter	Plutonium-239	11.7	11.2	8.37 - 13.5	Acceptable

ERA	4th/2018	11/20/18	MRAD-29	Filter	pCi/Filter	Strontium-90	87.6	89.4	56.5 - 122	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Filter	pCi/Filter	Uranium-234	55.1	52.1	38.6 - 61.0	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Filter	pCi/Filter	Uranium-234	49	52.1	38.6 - 61.0	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Filter	pCi/Filter	Uranium-238	51.1	51.6	39.0 - 61.6	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Filter	pCi/Filter	Uranium-238	47.4	51.6	39.0 - 61.6	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Filter	pCi/Filter	Uranium-Total	102.5	106	77.4 - 126	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Filter	pCi/Filter	Uranium-Total	103	106	77.4 - 126	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Filter	µg/Filter	U-Total (mass)	153	156	125 - 183	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Filter	µg/Filter	U-Total (mass)	142	156	125 - 183	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Filter	pCi/Filter	Zinc-65	771	660	541 - 1010	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Filter	pCi/Filter	Gross Alpha	54.2	55.3	28.9 - 91.1	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Filter	pCi/Filter	Gross Beta	75.6	86.5	52.4 - 131	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Water	pCi/L	Americium-241	164	172	118 - 220	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Water	pCi/L	Cesium-134	2200	2310	1740 - 2540	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Water	pCi/L	Cesium-137	910	898	769 - 1020	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Water	pCi/L	Cesium-137	910	898	769 - 1020	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Water	pCi/L	Cobalt-60	1630	1510	1300 - 1730	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Water	pCi/L	Iron-55	2610	1580	926 - 2300	Not Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Water	pCi/L	Manganese-54	<6.61	<100	<100	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Water	pCi/L	Plutonium-238	108	141	84.8 - 183	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Water	pCi/L	Plutonium-239	125	163	101 - 201	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Water	pCi/L	Strontium-90	321	275	198 - 340	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Water	pCi/L	Uranium-234	94	91.6	69.7 - 105	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Water	pCi/L	Uranium-234	95.8	91.6	69.7 - 105	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Water	pCi/L	Uranium-234	84.6	91.6	69.7 - 105	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Water	pCi/L	Uranium-238	93.3	90.8	70.4 - 107	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Water	pCi/L	Uranium-238	88.3	90.8	70.4 - 107	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Water	pCi/L	Uranium-238	88.5	90.8	70.4 - 107	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Water	pCi/L	Uranium-238	93.3	90.8	70.4 - 107	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Water	pCi/L	Uranium-Total	184.3	187	146 - 213	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Water	pCi/L	Uranium-Total	178	187	146 - 213	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Water	µg/L	U-Total (mass)	265	273	221 - 310	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Water	pCi/L	Zinc-65	1990	1790	1590 - 2260	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Water	pCi/L	Gross Alpha	166	183	66.8 - 252	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Water	pCi/L	Gross Beta	91	99.4	49.7 - 137	Acceptable
ERA	4th/2018	11/20/18	MRAD-29	Water	pCi/L	Tritium	3030	3020	2280 - 3680	Acceptable
EZA	4th/2018	01/23/19	E12346	Cartridge	pCi	Iodine-131	8.92E+01	8.98E+01	0.99	Acceptable
EZA	4th/2018	01/23/19	E12347	Milk	pCi/L	Strontium-89	8.67E+01	9.19E+01	0.94	Acceptable
EZA	4th/2018	01/23/19	E12347	Milk	pCi/L	Strontium-90	1.07E+01	1.33E+01	0.80	Acceptable
EZA	4th/2018	01/23/19	E12348	Milk	pCi/L	Iodine-131	9.58E+01	9.33E+01	1.03	Acceptable
EZA	4th/2018	01/23/19	E12348	Milk	pCi/L	Cerium-141	1.37E+02	1.33E+02	1.03	Acceptable
EZA	4th/2018	01/23/19	E12348	Milk	pCi/L	Chromium-51	2.66E+02	2.98E+02	0.89	Acceptable
EZA	4th/2018	01/23/19	E12348	Milk	pCi/L	Cesium-134	1.52E+02	1.71E+02	0.89	Acceptable
EZA	4th/2018	01/23/19	E12348	Milk	pCi/L	Cesium-137	1.25E+02	1.21E+02	1.03	Acceptable
EZA	4th/2018	01/23/19	E12348	Milk	pCi/L	Cobalt-58	1.19E+02	1.19E+02	1.00	Acceptable
EZA	4th/2018	01/23/19	E12348	Milk	pCi/L	Manganese-54	1.70E+02	1.54E+02	1.10	Acceptable
EZA	4th/2018	01/23/19	E12348	Milk	pCi/L	Iron-59	1.25E+02	1.14E+02	1.09	Acceptable
EZA	4th/2018	01/23/19	E12348	Milk	pCi/L	Zinc-65	2.75E+02	2.64E+02	1.04	Acceptable
EZA	4th/2018	01/23/19	E12348	Milk	pCi/L	Cobalt-60	2.12E+02	2.12E+02	1.00	Acceptable
EZA	4th/2018	01/23/19	E12349	Water	pCi/L	Iodine-131	8.19E+01	8.04E+01	1.02	Acceptable
EZA	4th/2018	01/23/19	E12349	Water	pCi/L	Cerium-141	1.26E+02	1.24E+02	1.02	Acceptable
EZA	4th/2018	01/23/19	E12349	Water	pCi/L	Chromium-51	3.20E+02	2.78E+02	1.15	Acceptable
EZA	4th/2018	01/23/19	E12349	Water	pCi/L	Cesium-134	1.41E+02	1.60E+02	0.88	Acceptable

EZA	4th/2018	01/23/19	E12349	Water	pCi/L	Cesium-137	1.21E+02	1.13E+02	1.07	Acceptable
EZA	4th/2018	01/23/19	E12349	Water	pCi/L	Cobalt-58	1.09E+02	1.11E+02	0.99	Acceptable
EZA	4th/2018	01/23/19	E12349	Water	pCi/L	Manganese-54	1.51E+02	1.44E+02	1.05	Acceptable
EZA	4th/2018	01/23/19	E12349	Water	pCi/L	Iron-59	1.16E+02	1.07E+02	1.09	Acceptable
EZA	4th/2018	01/23/19	E12349	Water	pCi/L	Zinc-65	2.76E+02	2.46E+02	1.12	Acceptable
EZA	4th/2018	01/23/19	E12349	Water	pCi/L	Cobalt-60	2.06E+02	1.98E+02	1.04	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-MaS39	Soil	Bq/Kg	Americium-241	55.4	55.5	38.9-72.2	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-MaS39	Soil	Bq/Kg	Cesium-134	693.00	781	547-1015	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-MaS39	Soil	Bq/Kg	Cesium-137	598	572	400-744	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-MaS39	Soil	Bq/Kg	Cobalt-57	1080	958	671-1245	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-MaS39	Soil	Bq/Kg	Cobalt-60	596.000	608	426-790	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-MaS39	Soil	Bq/Kg	Iron-55	434	512	358-666	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-MaS39	Soil	Bq/Kg	Manganese-54	0.24		False Pos Test	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-MaS39	Soil	Bq/Kg	Nickel-63	793	765	536-995	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-MaS39	Soil	Bq/Kg	Plutonium-238	55.2	57.0	39.9-74.1	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-MaS39	Soil	Bq/Kg	Pu-239/240	-0.33	0.34	Sens. Eval	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-MaS39	Soil	Bq/Kg	Potassium-40	556	566	396-736	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-MaS39	Soil	Bq/Kg	Strontium-90	162	193	135-251	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-MaS39	Soil	Bq/Kg	Technetium-99	239	252	176-328	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-MaS39	Soil	Bq/Kg	U-234/233	113	160	112-208	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-MaS39	Soil	Bq/Kg	Uranium-238	224	276	193-359	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-MaS39	Soil	Bq/Kg	Zinc-65	537.0	500	350-650	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-MaW39	Water	Bq/L	Americium-241	0.007		False Pos Test	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-MaW39	Water	Bq/L	Cesium-134	7.94	8.7	6.1-11.3	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-MaW39	Water	Bq/L	Cesium-137	7.41	6.9	4.8-9.0	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-MaW39	Water	Bq/L	Cobalt-57	15.1	14.9	10.4-19.4	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-MaW39	Water	Bq/L	Cobalt-60	0.0408		False Pos Test	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-MaW39	Water	Bq/L	Hydrogen-3	331	338	237-439	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-MaW39	Water	Bq/L	Iron-55	8.41	9.0	6.3-11.7	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-MaW39	Water	Bq/L	Manganese-54	13.2	12.5	8.8-16.3	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-MaW39	Water	Bq/L	Nickel-63	6.14	7.0	4.9-9.1	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-MaW39	Water	Bq/L	Plutonium-238	0.591	0.67	0.472-0.876	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-MaW39	Water	Bq/L	Pu-239/240	0.801	0.928	0.650-1.206	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-MaW39	Water	Bq/L	Potassium-40	0.884		False Pos Test	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-MaW39	Water	Bq/L	Radium-226	0.566	0.44	0.309-0.575	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-MaW39	Water	Bq/L	Strontium-90	8.24	9.41	6.59-12.23	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-MaW39	Water	Bq/L	Technetium-99	3.87	3.39	2.73-4.41	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-MaW39	Water	Bq/L	Uranium-234/233	2.13	2.11	1.46-2.74	Acceptable

MAPEP	4th/2018	12/03/18	MAPEP-18-MaW39	Water	Bq/L	Uranium-238	2.170	2.180	1.53-2.83	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-MaW39	Water	Bq/L	Zinc-65	8.52	7.53	5.27-9.79	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-RdF38	Filter	ug/sample	Uranium-235	0.0936	0.0913	0.0650 - 0.1208	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-RdF38	Filter	ug/sample	Uranium-238	13.4	12.7	8.9 - 16.5	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-RdF38	Filter	ug/sample	Uranium-Total	13.5	12.8	9.0 - 16.6	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-RdF38	Filter	Bq/sample	Americium-241	0.0919	0.0913	0.0639 - 0.1187	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-RdF38	Filter	Bq/sample	Cesium-134	0.431	0.444	0.311 - 0.577	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-RdF38	Filter	Bq/sample	Cesium-137	0.338	0.345	0.242 - 0.449	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-RdF38	Filter	Bq/sample	Cobalt-57	0.598	0.592	0.414 - 0.770	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-RdF38	Filter	Bq/sample	Cobalt-60	0.338	0.294	0.206 - 0.382	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-RdF38	Filter	Bq/sample	Manganese-54	0.326	0.266	0.186 - 0.346	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-RdF38	Filter	Bq/sample	Plutonium-238	0.000398	0.0011	Sens. Evaluation	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-RdF38	Filter	Bq/sample	Pu-239/240	0.0672	0.0698	0.0489 - 0.0907	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-RdF38	Filter	Bq/sample	Strontium-90	-0.026		False Pos Test	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-RdF38	Filter	Bq/sample	Uranium-234/233	0.148	0.152	0.106 - 0.198	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-RdF38	Filter	Bq/sample	Uranium-238	0.150	0.158	0.111 - 0.205	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-RdF38	Filter	Bq/sample	Zinc-65	0.229	0.201	Sens. Evaluation	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-RdV38	Veg.	Bq/sample	Americium-241	0.0851	0.0930	0.065-0.121	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-RdV38	Veg.	Bq/sample	Cesium-134	1.74	1.94	1.36-2.52	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-RdV38	Veg.	Bq/sample	Cesium-137	2.42	2.36	1.65-3.07	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-RdV38	Veg.	Bq/sample	Cobalt-57	3.24	3.31	2.32-4.30	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-RdV38	Veg.	Bq/sample	Cobalt-60	1.69	1.68	1.18-2.18	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-RdV38	Veg.	Bq/sample	Manganese-54	2.59	2.53	1.77-3.29	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-RdV38	Veg.	Bq/sample	Plutonium-238	0.0680	0.070	0.049-0.091	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-RdV38	Veg.	Bq/sample	Pu-239/240	0.0605	0.0620	0.043-0.081	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-RdV38	Veg.	Bq/sample	Strontium-90	0.716	0.791	0.554-1.028	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-RdV38	Veg.	Bq/sample	Uranium-234/233	0.136	0.138	0.097-0.179	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-RdV38	Veg.	Bq/sample	Uranium-238	0.140	0.143	0.100-0.186	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-RdV38	Veg.	Bq/sample	Zinc-65	1.51	1.37	0.96-1.78	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-XaW39	Alk. Water	Bq/L	Iodine-129	1.63	1.62	1.13-2.11	Acceptable

TABLE 2
2018 ECKERT & ZIEGLER ANALYTICS PERFORMANCE EVALUATION RESULTS

PT Provider	Quarter / Year	Report Received Date	Sample Number	Sample Media	Unit	Analyte / Nuclide	GEL Value	Known Value	Acceptance Range / Ratio	Evaluation
EZA	1st / 2018	05/11/18	E12100	Cartridge	pCi	Iodine-131	9.20E+01	8.52E+01	0.97	Acceptable
EZA	1st / 2018	05/11/18	E12101	Milk	pCi/L	Strontium-89	9.16E+01	9.01E+01	1.02	Acceptable
EZA	1st / 2018	05/11/18	E12101	Milk	pCi/L	Strontium-90	8.00E+01	1.25E+02	0.64	Acceptable
EZA	1st / 2018	05/11/18	E12102	Milk	pCi/L	Iodine-131	1.05E+02	1.08E+02	0.97	Acceptable
EZA	1st / 2018	05/11/18	E12102	Milk	pCi/L	Cerium-141	7.23E+01	7.70E+01	0.94	Acceptable
EZA	1st / 2018	05/11/18	E12102	Milk	pCi/L	Cobalt-58	1.11E+02	1.14E+02	0.97	Acceptable
EZA	1st / 2018	05/11/18	E12102	Milk	pCi/L	Cobalt-60	1.90E+02	1.87E+02	1.02	Acceptable
EZA	1st / 2018	05/11/18	E12102	Milk	pCi/L	Chromium-51	3.00E+02	3.26E+02	0.92	Acceptable
EZA	1st / 2018	05/11/18	E12102	Milk	pCi/L	Cesium-134	1.58E+02	1.80E+02	0.88	Acceptable
EZA	1st / 2018	05/11/18	E12102	Milk	pCi/L	Cesium-137	1.75E+02	1.72E+02	1.02	Acceptable
EZA	1st / 2018	05/11/18	E12102	Milk	pCi/L	Manganese-54	1.36E+02	1.31E+02	1.04	Acceptable
EZA	1st / 2018	05/11/18	E12102	Milk	pCi/L	Iron-59	1.52E+02	1.39E+02	1.10	Acceptable
EZA	1st / 2018	05/11/18	E12102	Milk	pCi/L	Zinc-65	2.73E+02	2.44E+02	1.12	Acceptable
EZA	1st / 2018	05/11/18	E12103	Water	pCi/L	Iodine-131	9.37E+01	9.10E+01	1.03	Acceptable
EZA	1st / 2018	05/11/18	E12103	Water	pCi/L	Cerium-141	7.86E+01	7.34E+01	1.07	Acceptable
EZA	1st / 2018	05/11/18	E12103	Water	pCi/L	Chromium-51	3.44E+02	3.10E+02	1.11	Acceptable
EZA	1st / 2018	05/11/18	E12103	Water	pCi/L	Cesium-134	1.61E+02	1.71E+02	0.94	Acceptable
EZA	1st / 2018	05/11/18	E12103	Water	pCi/L	Cesium-137	1.64E+02	1.64E+02	1.00	Acceptable
EZA	1st / 2018	05/11/18	E12103	Water	pCi/L	Cobalt-58	1.92E+02	1.78E+02	1.08	Acceptable
EZA	1st / 2018	05/11/18	E12103	Water	pCi/L	Manganese-54	1.36E+02	1.25E+02	1.09	Acceptable
EZA	1st / 2018	05/11/18	E12103	Water	pCi/L	Iron-59	1.48E+02	1.32E+02	1.12	Acceptable
EZA	1st / 2018	05/11/18	E12103	Water	pCi/L	Zinc-65	2.53E+02	2.33E+02	1.09	Acceptable
EZA	1st / 2018	05/11/18	E12103	Water	pCi/L	Cobalt-60	1.92E+02	1.78E+02	1.08	Acceptable
EZA	2nd/2018	07/07/18	E12171	Cartridge	pCi	Iodine-131	7.22E+01	7.16E+01	1.01	Acceptable
EZA	2nd/2018	07/07/18	E12172	Milk	pCi/L	Strontium-89	9.56E+01	8.46E+01	1.13	Acceptable
EZA	2nd/2018	07/07/18	E12172	Milk	pCi/L	Strontium-90	8.47E+00	1.14E+01	0.74	Acceptable
EZA	2nd/2018	07/07/18	E12173	Milk	pCi/L	Iodine-131	7.89E+01	7.19E+01	1.10	Acceptable
EZA	2nd/2018	07/07/18	E12173	Milk	pCi/L	Cerium-141	9.01E+01	8.22E+01	1.10	Acceptable
EZA	2nd/2018	07/07/18	E12173	Milk	pCi/L	Cobalt-58	9.26E+01	8.90E+01	1.04	Acceptable
EZA	2nd/2018	07/07/18	E12173	Milk	pCi/L	Cobalt-60	1.18E+02	1.13E+02	1.04	Acceptable
EZA	2nd/2018	07/07/18	E12173	Milk	pCi/L	Chromium-51	2.58E+02	2.39E+02	1.08	Acceptable
EZA	2nd/2018	07/07/18	E12173	Milk	pCi/L	Cesium-134	1.10E+02	1.14E+02	0.97	Acceptable
EZA	2nd/2018	07/07/18	E12173	Milk	pCi/L	Cesium-137	1.04E+02	9.88E+01	1.05	Acceptable
EZA	2nd/2018	07/07/18	E12173	Milk	pCi/L	Manganese-54	1.42E+02	1.30E+02	1.09	Acceptable
EZA	2nd/2018	07/07/18	E12173	Milk	pCi/L	Iron-59	8.87E+01	8.60E+01	1.03	Acceptable
EZA	2nd/2018	07/07/18	E12173	Milk	pCi/L	Zinc-65	1.83E+02	1.57E+02	1.16	Acceptable
EZA	2nd/2018	07/07/18	E12174	Water	pCi/L	Iodine-131	7.31E+01	7.44E+01	0.98	Acceptable
EZA	2nd/2018	07/07/18	E12174	Water	pCi/L	Cerium-141	1.02E+02	8.58E+01	1.19	Acceptable
EZA	2nd/2018	07/07/18	E12174	Water	pCi/L	Chromium-51	2.73E+02	2.49E+02	1.10	Acceptable
EZA	2nd/2018	07/07/18	E12174	Water	pCi/L	Cesium-134	1.06E+02	1.19E+02	0.89	Acceptable
EZA	2nd/2018	07/07/18	E12174	Water	pCi/L	Cesium-137	9.86E+01	1.03E+02	0.96	Acceptable
EZA	2nd/2018	07/07/18	E12174	Water	pCi/L	Cobalt-58	9.76E+01	9.29E+01	1.05	Acceptable
EZA	2nd/2018	07/07/18	E12174	Water	pCi/L	Manganese-54	1.47E+02	1.35E+02	1.09	Acceptable
EZA	2nd/2018	07/07/18	E12174	Water	pCi/L	Iron-59	1.08E+02	8.97E+01	1.20	Acceptable

EZA	2nd/2018	07/07/18	E12174	Water	pCi/L	Zinc-65	1.97E+02	1.64E+02	1.20	Acceptable
EZA	2nd/2018	07/07/18	E12174	Water	pCi/L	Cobalt-60	1.22E+02	1.18E+02	1.03	Acceptable
EZA	3rd/2018	11/12/18	E12240	Cartridge	pCi	Iodine-131	7.95E+01	8.03E+01	0.99	Acceptable
EZA	3rd/2018	11/12/18	E12241	Milk	pCi/L	Strontium-89	8.57E+01	8.17E+01	1.05	Acceptable
EZA	3rd/2018	11/12/18	E12241	Milk	pCi/L	Strontium-90	9.22E+00	1.48E+01	0.62	Acceptable
EZA	3rd/2018	11/12/18	E12242	Milk	pCi/L	Iodine-131	7.18E+01	5.82E+01	1.23	Acceptable
EZA	3rd/2018	11/12/18	E12242	Milk	pCi/L	Cerium-141	1.43E+02	1.28E+02	1.12	Acceptable
EZA	3rd/2018	11/12/18	E12242	Milk	pCi/L	Chromium-51	2.54E+02	2.65E+02	0.96	Acceptable
EZA	3rd/2018	11/12/18	E12242	Milk	pCi/L	Cesium-134	1.18E+02	1.23E+02	0.96	Acceptable
EZA	3rd/2018	11/12/18	E12242	Milk	pCi/L	Cesium-137	1.53E+02	1.47E+02	1.04	Acceptable
EZA	3rd/2018	11/12/18	E12242	Milk	pCi/L	Cobalt-58	1.54E+02	1.44E+02	1.07	Acceptable
EZA	3rd/2018	11/12/18	E12242	Milk	pCi/L	Manganese-54	1.84E+02	1.67E+02	1.09	Acceptable
EZA	3rd/2018	11/12/18	E12242	Milk	pCi/L	Iron-59	1.20E+02	1.19E+02	1.01	Acceptable
EZA	3rd/2018	11/12/18	E12242	Milk	pCi/L	Zinc-65	2.44E+02	2.01E+02	1.22	Acceptable
EZA	3rd/2018	11/12/18	E12242	Milk	pCi/L	Cobalt-60	2.02E+02	1.90E+02	1.06	Acceptable
EZA	3rd/2018	11/12/18	E12243	Water	pCi/L	Iodine-131	6.76E+01	6.25E+01	1.08	Acceptable
EZA	3rd/2018	11/12/18	E12243	Water	pCi/L	Cerium-141	1.48E+02	1.33E+02	1.11	Acceptable
EZA	3rd/2018	11/12/18	E12243	Water	pCi/L	Chromium-51	2.92E+02	2.75E+02	1.06	Acceptable
EZA	3rd/2018	11/12/18	E12243	Water	pCi/L	Cesium-134	1.20E+02	1.28E+02	0.94	Acceptable
EZA	3rd/2018	11/12/18	E12243	Water	pCi/L	Cesium-137	1.64E+02	1.54E+02	1.07	Acceptable
EZA	3rd/2018	11/12/18	E12243	Water	pCi/L	Cobalt-58	1.53E+02	1.50E+02	1.02	Acceptable
EZA	3rd/2018	11/12/18	E12243	Water	pCi/L	Manganese-54	1.91E+02	1.74E+02	1.1	Acceptable
EZA	3rd/2018	11/12/18	E12243	Water	pCi/L	Iron-59	1.39E+02	1.24E+02	1.12	Acceptable
EZA	3rd/2018	11/12/18	E12243	Water	pCi/L	Zinc-65	2.41E+02	2.09E+02	1.15	Acceptable
EZA	3rd/2018	11/12/18	E12243	Water	pCi/L	Cobalt-60	2.09E+02	1.98E+02	1.06	Acceptable
EZA	4th/2018	01/23/19	E12346	Cartridge	pCi	Iodine-131	8.92E+01	8.98E+01	0.99	Acceptable
EZA	4th/2018	01/23/19	E12347	Milk	pCi/L	Strontium-89	8.67E+01	9.19E+01	0.94	Acceptable
EZA	4th/2018	01/23/19	E12347	Milk	pCi/L	Strontium-90	1.07E+01	1.33E+01	0.80	Acceptable
EZA	4th/2018	01/23/19	E12348	Milk	pCi/L	Iodine-131	9.58E+01	9.33E+01	1.03	Acceptable
EZA	4th/2018	01/23/19	E12348	Milk	pCi/L	Cerium-141	1.37E+02	1.33E+02	1.03	Acceptable
EZA	4th/2018	01/23/19	E12348	Milk	pCi/L	Chromium-51	2.66E+02	2.98E+02	0.89	Acceptable
EZA	4th/2018	01/23/19	E12348	Milk	pCi/L	Cesium-134	1.52E+02	1.71E+02	0.89	Acceptable
EZA	4th/2018	01/23/19	E12348	Milk	pCi/L	Cesium-137	1.25E+02	1.21E+02	1.03	Acceptable
EZA	4th/2018	01/23/19	E12348	Milk	pCi/L	Cobalt-58	1.19E+02	1.19E+02	1.00	Acceptable
EZA	4th/2018	01/23/19	E12348	Milk	pCi/L	Manganese-54	1.70E+02	1.54E+02	1.10	Acceptable
EZA	4th/2018	01/23/19	E12348	Milk	pCi/L	Iron-59	1.25E+02	1.14E+02	1.09	Acceptable
EZA	4th/2018	01/23/19	E12348	Milk	pCi/L	Zinc-65	2.75E+02	2.64E+02	1.04	Acceptable
EZA	4th/2018	01/23/19	E12348	Milk	pCi/L	Cobalt-60	2.12E+02	2.12E+02	1.00	Acceptable
EZA	4th/2018	01/23/19	E12349	Water	pCi/L	Iodine-131	8.19E+01	8.04E+01	1.02	Acceptable
EZA	4th/2018	01/23/19	E12349	Water	pCi/L	Cerium-141	1.26E+02	1.24E+02	1.02	Acceptable
EZA	4th/2018	01/23/19	E12349	Water	pCi/L	Chromium-51	3.20E+02	2.78E+02	1.15	Acceptable
EZA	4th/2018	01/23/19	E12349	Water	pCi/L	Cesium-134	1.41E+02	1.60E+02	0.88	Acceptable
EZA	4th/2018	01/23/19	E12349	Water	pCi/L	Cesium-137	1.21E+02	1.13E+02	1.07	Acceptable
EZA	4th/2018	01/23/19	E12349	Water	pCi/L	Cobalt-58	1.09E+02	1.11E+02	0.99	Acceptable
EZA	4th/2018	01/23/19	E12349	Water	pCi/L	Manganese-54	1.51E+02	1.44E+02	1.05	Acceptable
EZA	4th/2018	01/23/19	E12349	Water	pCi/L	Iron-59	1.16E+02	1.07E+02	1.09	Acceptable
EZA	4th/2018	01/23/19	E12349	Water	pCi/L	Zinc-65	2.76E+02	2.46E+02	1.12	Acceptable
EZA	4th/2018	01/23/19	E12349	Water	pCi/L	Cobalt-60	2.06E+02	1.98E+02	1.04	Acceptable

TABLE 3

2018 DEPARTMENT OF ENERGY MIXED ANALYTE PERFORMANCE EVALUATION PROGRAM (MAPEP) RESULTS

PT Provider	Quarter / Year	Report Received Date	Sample Number	Sample Media	Unit	Analyte / Nuclide	GEL Value	Known value	Acceptance Range/ Ratio	Evaluation
MAPEP	2nd/2018	05/31/18	MAPEP-18-MaS38	Soil	Bq/Kg	Americium-241	1.84		False Pos Test	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-MaS38	Soil	Bq/Kg	Cesium-134	1.85		False Pos Test	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-MaS38	Soil	Bq/Kg	Cesium-137	4.85	4.6	Sens. Eval.	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-MaS38	Soil	Bq/Kg	Cobalt-57	798	826	578-1074	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-MaS38	Soil	Bq/Kg	Cobalt-60	581	560	392-728	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-MaS38	Soil	Bq/Kg	Iron-55	67		False Pos Test	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-MaS38	Soil	Bq/Kg	Manganese-54	1060	1010	707-1313	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-MaS38	Soil	Bq/Kg	Nickel-63	1.05		False Pos Test	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-MaS38	Soil	Bq/Kg	Plutonium-238	42.7	45.2	31.6-58.8	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-MaS38	Soil	Bq/Kg	Plutonium-239/240	46.9	50.8	35.6-66.0	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-MaS38	Soil	Bq/Kg	Potassium-40	649	577	404-750	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-MaS38	Soil	Bq/Kg	Strontium-90	-1.08		False Pos Test	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-MaS38	Soil	Bq/Kg	Technetium-99	890	980	686-1274	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-MaS38	Soil	Bq/Kg	U-234/233	58.9	52.9	37.0-68.8	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-MaS38	Soil	Bq/Kg	Uranium-238	134	141	99-183	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-MaS38	Soil	Bq/Kg	Zinc-65	1060	960	672-1248	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-MaW38	Water	Bq/L	Americium-241	0.685	0.709	0.496-0.922	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-MaW38	Water	Bq/L	Cesium-134	9.140	10.2	7.1-13.3	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-MaW38	Water	Bq/L	Cesium-137	12.8	12.2	8.5-15.9	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-MaW38	Water	Bq/L	Cobalt-57	-0.042		False Pos Test	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-MaW38	Water	Bq/L	Cobalt-60	12.1	11.5	8.1-15.0	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-MaW38	Water	Bq/L	Hydrogen-3	1.14		False Pos Test	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-MaW38	Water	Bq/L	Iron-55	11.90	11.1	7.8-14.1	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-MaW38	Water	Bq/L	Manganese-54	9.35E-04		False Pos Test	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-MaW38	Water	Bq/L	Nickel-63	14.5	14.0	9.8-18.2	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-MaW38	Water	Bq/L	Plutonium-238	0.014	0.023	Sens. Eval.	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-MaW38	Water	Bq/L	Plutonium-239/240	0.586	0.600	0.420-0.780	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-MaW38	Water	Bq/L	Potassium-40	-0.23		False Pos Test	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-MaW38	Water	Bq/L	Radium-226	0.249	0.257	0.180-0.334	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-MaW38	Water	Bq/L	Strontium-90	10.70	11.400	8.0-14.8	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-MaW38	Water	Bq/L	Technetium-99	3.84	4.4	3.08-5.68	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-MaW38	Water	Bq/L	Uranium-234/233	0.45	0.43	0.301-0.559	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-MaW38	Water	Bq/L	Uranium-238	0.48	0.44	0.306-0.568	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-MaW38	Water	Bq/L	Zinc-65	15.7	14.30	0.0-18.6	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-RdF38	Filter	ug/sample	Uranium-235	0.076	0.0739	0.0517-0.0961	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-RdF38	Filter	ug/sample	Uranium-238	10.60	10.4	7.3-13.5	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-RdF38	Filter	ug/sample	Uranium-Total	10.68	10.5	7.4-13.7	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-RdF38	Filter	Bq/sample	Americium-241	0.0646	0.0670	0.047-0.087	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-RdF38	Filter	Bq/sample	Cesium-134	0.72	0.675	0.473-0.878	Acceptable

MAPEP	2nd/2018	05/31/18	MAPEP-18-RdF38	Filter	Bq/sample	Cesium-137	-0.023		False Pos Test	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-RdF38	Filter	Bq/sample	Cobalt-57	1.22	1.18	0.83-1.53	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-RdF38	Filter	Bq/sample	Cobalt-60	0.010		False Pos Test	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-RdF38	Filter	Bq/sample	Manganese-54	1.08	1.03	0.72-1.34	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-RdF38	Filter	Bq/sample	Plutonium-238	0.0440	0.0445	0.0312-0.0579	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-RdF38	Filter	Bq/sample	Plutonium-239/240	0.0010		False Pos Test	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-RdF38	Filter	Bq/sample	Strontium-90	0.840	1.010	0.71-1.31	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-RdF38	Filter	Bq/sample	Uranium-234/233	0.121	0.124	0.087-0.161	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-RdF38	Filter	Bq/sample	Uranium-238	0.126	0.128	0.090-0.166	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-RdF38	Filter	Bq/sample	Zinc-65	1.54	1.33	0.93-1.73	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-RdV38	Vegetation	Bq/sample	Americium-241	0.107	0.106	0.074-0.138	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-RdV38	Vegetation	Bq/sample	Cesium-134	3.17	3.23	2.26-4.2	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-RdV38	Vegetation	Bq/sample	Cesium-137	4.03	3.67	2.57-4.77	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-RdV38	Vegetation	Bq/sample	Cobalt-57	4.76	4.42	3.09-5.75	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-RdV38	Vegetation	Bq/sample	Cobalt-60	2.49	2.3	1.60-2.98	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-RdV38	Vegetation	Bq/sample	Manganese-54	3.02	2.66	1.86-3.46	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-RdV38	Vegetation	Bq/sample	Plutonium-238	0.0005		False Pos Test	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-RdV38	Vegetation	Bq/sample	Plutonium-239/240	0.0679	0.0770	0.054-0.1	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-RdV38	Vegetation	Bq/sample	Strontium-90	0.61	0.675	0.473-0.878	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-RdV38	Vegetation	Bq/sample	Uranium-234/233	0.21	0.179	0.125-0.233	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-RdV38	Vegetation	Bq/sample	Uranium-238	0.197	0.186	0.130-0.242	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-RdV38	Vegetation	Bq/sample	Zinc-65	0.02		False Pos Test	Acceptable
MAPEP	2nd/2018	05/31/18	MAPEP-18-XaW38	Water	Bq/L	Iodine-129	2.00	1.93	1.35-2.51	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-MaS39	Soil	Bq/Kg	Americium-241	55.4	55.5	38.9-72.2	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-MaS39	Soil	Bq/Kg	Cesium-134	693.00	781	547-1015	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-MaS39	Soil	Bq/Kg	Cesium-137	598	572	400-744	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-MaS39	Soil	Bq/Kg	Cobalt-57	1080	958	671-1246	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-MaS39	Soil	Bq/Kg	Cobalt-60	595.000	608	426-790	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-MaS39	Soil	Bq/Kg	Iron-55	434	512	358-666	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-MaS39	Soil	Bq/Kg	Manganese-54	0.24		False Pos Test	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-MaS39	Soil	Bq/Kg	Nickel-63	793	765	536-995	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-MaS39	Soil	Bq/Kg	Plutonium-238	55.2	57.0	39.9-74.1	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-MaS39	Soil	Bq/Kg	Plutonium-239/240	-0.33	0.34	Sens. Eval	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-MaS39	Soil	Bq/Kg	Potassium-40	556	566	396-736	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-MaS39	Soil	Bq/Kg	Strontium-90	162	193	135-251	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-MaS39	Soil	Bq/Kg	Technetium-99	239	252	176-328	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-MaS39	Soil	Bq/Kg	U-234/233	113	160	112-208	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-MaS39	Soil	Bq/Kg	Uranium-238	224	276	193-359	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-MaS39	Soil	Bq/Kg	Zinc-65	537.0	500	350-650	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-MaW39	Water	Bq/L	Americium-241	0.007		False Pos Test	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-MaW39	Water	Bq/L	Cesium-134	7.94	8.7	6.1-11.3	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-MaW39	Water	Bq/L	Cesium-137	7.41	6.9	4.8-9.0	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-MaW39	Water	Bq/L	Cobalt-57	15.1	14.9	10.4-19.4	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-MaW39	Water	Bq/L	Cobalt-60	0.0408		False Pos Test	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-MaW39	Water	Bq/L	Hydrogen-3	331	338	237-439	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-MaW39	Water	Bq/L	Iron-55	8.41	9.0	6.3-11.7	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-MaW39	Water	Bq/L	Manganese-54	13.2	12.5	8.8-16.3	Acceptable

MAPEP	4th/2018	12/03/18	MAPEP-18-MaW39	Water	Bq/L	Nickel-63	6.14	7.0	4.9-9.1	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-MaW39	Water	Bq/L	Plutonium-238	0.591	0.67	0.472-0.876	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-MaW39	Water	Bq/L	Plutonium-239/240	0.801	0.928	0.650-1.206	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-MaW39	Water	Bq/L	Potassium-40	0.884		False Pos Test	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-MaW39	Water	Bq/L	Radium-226	0.566	0.44	0.309-0.575	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-MaW39	Water	Bq/L	Strontium-90	8.24	9.41	6.59-12.23	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-MaW39	Water	Bq/L	Technetium-99	3.87	3.39	2.73-4.41	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-MaW39	Water	Bq/L	Uranium-234/233	2.13	2.11	1.48-2.74	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-MaW39	Water	Bq/L	Uranium-238	2.170	2.180	1.53-2.83	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-MaW39	Water	Bq/L	Zinc-65	8.52	7.53	5.27-9.79	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-RdF38	Filter	ug/sample	Uranium-235	0.0936	0.0913	0.0650 - 0.1208	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-RdF38	Filter	ug/sample	Uranium-238	13.4	12.7	8.9 - 16.5	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-RdF38	Filter	ug/sample	Uranium-Total	13.5	12.8	9.0 - 16.6	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-RdF38	Filter	Bq/sample	Americium-241	0.0919	0.0913	0.0639 - 0.1187	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-RdF38	Filter	Bq/sample	Cesium-134	0.431	0.444	0.311 - 0.577	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-RdF38	Filter	Bq/sample	Cesium-137	0.338	0.345	0.242 - 0.449	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-RdF38	Filter	Bq/sample	Cobalt-57	0.596	0.592	0.414 - 0.770	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-RdF38	Filter	Bq/sample	Cobalt-60	0.338	0.294	0.206 - 0.382	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-RdF38	Filter	Bq/sample	Manganese-54	0.326	0.266	0.186 - 0.346	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-RdF38	Filter	Bq/sample	Plutonium-238	0.000398	0.0011	Sens. Evaluation	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-RdF38	Filter	Bq/sample	Plutonium-239/240	0.0672	0.0698	0.0489 - 0.0907	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-RdF38	Filter	Bq/sample	Strontium-90	-0.026		False Pos Test	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-RdF38	Filter	Bq/sample	Uranium-234/233	0.148	0.152	0.106 - 0.198	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-RdF38	Filter	Bq/sample	Uranium-238	0.150	0.158	0.111 - 0.205	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-RdF38	Filter	Bq/sample	Zinc-65	0.229	0.201	Sens. Evaluation	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-RdV38	Vegetation	Bq/sample	Americium-241	0.0851	0.0930	0.065-0.121	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-RdV38	Vegetation	Bq/sample	Cesium-134	1.74	1.94	1.36-2.52	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-RdV38	Vegetation	Bq/sample	Cesium-137	2.42	2.36	1.65-3.07	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-RdV38	Vegetation	Bq/sample	Cobalt-57	3.24	3.31	2.32-4.30	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-RdV38	Vegetation	Bq/sample	Cobalt-60	1.69	1.68	1.18-2.18	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-RdV38	Vegetation	Bq/sample	Manganese-54	2.59	2.53	1.77-3.29	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-RdV38	Vegetation	Bq/sample	Plutonium-238	0.0680	0.070	0.049-0.091	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-RdV38	Vegetation	Bq/sample	Plutonium-239/240	0.0605	0.0620	0.043-0.081	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-RdV38	Vegetation	Bq/sample	Strontium-90	0.718	0.791	0.554-1.028	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-RdV38	Vegetation	Bq/sample	Uranium-234/233	0.136	0.138	0.097-0.179	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-RdV38	Vegetation	Bq/sample	Uranium-238	0.140	0.143	0.100-0.186	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-RdV38	Vegetation	Bq/sample	Zinc-65	1.51	1.37	0.96-1.78	Acceptable
MAPEP	4th/2018	12/03/18	MAPEP-18-XaW39	Alk. Water	Bq/L	Iodine-129	1.63	1.62	1.13-2.11	Acceptable

TABLE 4

2018 ERA PROGRAM PERFORMANCE EVALUATION RESULTS

PT Provider	Quarter / Year	Report Received Date	Sample Number	Sample Media	Unit	Analyte / Nuclide	GEL Value	Known Value	Acceptance Range	Evaluation
ERA	1st / 2018	2/26/18	RAD-112	Water	pCi/L	Barium-133	97.6	95.1	80.2 - 105	Acceptable
ERA	1st / 2018	2/26/18	RAD-112	Water	pCi/L	Cesium-134	64.9	65.6	53.4 - 72.2	Acceptable
ERA	1st / 2018	2/26/18	RAD-112	Water	pCi/L	Cesium-137	117	112	101 - 126	Acceptable
ERA	1st / 2018	2/26/18	RAD-112	Water	pCi/L	Cobalt-60	122	114	103 - 126	Acceptable
ERA	1st / 2018	2/26/18	RAD-112	Water	pCi/L	Zinc-65	320	277	249 - 324	Acceptable
ERA	1st / 2018	2/26/18	RAD-112	Water	pCi/L	Gross Alpha	67.7	72.4	38.1 - 89.2	Acceptable
ERA	1st / 2018	2/26/18	RAD-112	Water	pCi/L	Gross Alpha	66.4	72.4	38.1 - 89.2	Acceptable
ERA	1st / 2018	2/26/18	RAD-112	Water	pCi/L	Gross Beta	47.6	54.8	37.5 - 61.7	Acceptable
ERA	1st / 2018	2/26/18	RAD-112	Water	pCi/L	Radium-226	16.2	14.2	10.6 - 16.3	Acceptable
ERA	1st / 2018	2/26/18	RAD-112	Water	pCi/L	Radium-226	16.3	14.2	10.6 - 16.3	Acceptable
ERA	1st / 2018	2/26/18	RAD-112	Water	pCi/L	Radium-226	5	4.21	2.43 - 5.81	Acceptable
ERA	1st / 2018	2/26/18	RAD-112	Water	pCi/L	Radium-228	4.44	4.21	2.43 - 5.81	Acceptable
ERA	1st / 2018	2/26/18	RAD-112	Water	pCi/L	Radium-228	65.4	58.6	47.8 - 64.5	Acceptable
ERA	1st / 2018	2/26/18	RAD-112	Water	pCi/L	Uranium (Nat)	56.4	58.6	47.8-64.5	Acceptable
ERA	1st / 2018	2/26/18	RAD-112	Water	pCi/L	Uranium (Nat)	65.4	58.6	47.8 - 64.5	Not Acceptable
ERA	1st / 2018	2/26/18	RAD-112	Water	µg/L	Uranium (Nat) mass	97.6	86.2	70.3 - 94.9	Not Acceptable
ERA	1st / 2018	2/26/18	RAD-112	Water	µg/L	Uranium (Nat) mass	93.3	86.2	70.3 - 94.9	Acceptable
ERA	1st / 2018	2/26/18	RAD-112	Water	pCi/L	Tritium	20000	21200	18600 - 23300	Acceptable
ERA	1st / 2018	2/26/18	RAD-112	Water	pCi/L	Tritium	20200	21200	18600 - 23300	Acceptable
ERA	1st / 2018	2/26/18	RAD-112	Water	pCi/L	Strontium-89	59.7	65.2	52.9 - 73.2	Acceptable
ERA	1st / 2018	2/26/18	RAD-112	Water	pCi/L	Strontium-89	68.6	65.2	52.9 - 73.2	Acceptable
ERA	1st / 2018	2/26/18	RAD-112	Water	pCi/L	Strontium-90	36.1	39.2	28.8 - 45.1	Acceptable
ERA	1st / 2018	2/26/18	RAD-112	Water	pCi/L	Strontium-90	36.9	39.2	28.8 - 45.1	Acceptable
ERA	1st / 2018	2/26/18	RAD-112	Water	pCi/L	Iodine-131	25.3	28.1	23.4 - 33.0	Acceptable
ERA	1st / 2018	2/26/18	RAD-112	Water	pCi/L	Iodine-131	28.6	28.1	23.4 - 33.0	Acceptable
ERA	3rd / 2018	08/23/18	RAD-114	Water	pCi/L	Barium-133	28.5	25.6	19.9 - 29.4	Acceptable
ERA	3rd / 2018	08/23/18	RAD-114	Water	pCi/L	Cesium-134	15.9	15.7	11.4 - 18.2	Acceptable
ERA	3rd / 2018	08/23/18	RAD-114	Water	pCi/L	Cesium-137	196	192	173 - 213	Acceptable
ERA	3rd / 2018	08/23/18	RAD-114	Water	pCi/L	Cobalt-60	122	119	107 - 133	Acceptable
ERA	3rd / 2018	08/23/18	RAD-114	Water	pCi/L	Zinc-65	196	177	159 - 208	Acceptable
ERA	3rd / 2018	08/23/18	RAD-114	Water	pCi/L	Gross Alpha	15.5	16	7.79 - 22.6	Acceptable
ERA	3rd / 2018	08/23/18	RAD-114	Water	pCi/L	Gross Alpha	18.2	16	7.79 - 22.6	Acceptable
ERA	3rd / 2018	08/23/18	RAD-114	Water	pCi/L	Gross Beta	43.6	49	33.2 - 56.1	Acceptable
ERA	3rd / 2018	08/23/18	RAD-114	Water	pCi/L	Radium-226	8.44	9.08	6.81 - 10.6	Acceptable
ERA	3rd / 2018	08/23/18	RAD-114	Water	pCi/L	Radium-228	2.72	2.28	1.07 - 3.60	Acceptable
ERA	3rd / 2018	08/23/18	RAD-114	Water	pCi/L	Radium-228	3.3	2.28	1.07 - 3.60	Acceptable
ERA	3rd / 2018	08/23/18	RAD-114	Water	pCi/L	Uranium (Nat)	53.8	51.8	42.2 - 57.1	Acceptable
ERA	3rd / 2018	08/23/18	RAD-114	Water	pCi/L	Uranium (Nat)	50.3	51.8	42.2 - 57.1	Acceptable
ERA	3rd / 2018	08/23/18	RAD-114	Water	µg/L	Uranium (Nat) mass	80.3	75.5	61.5 - 83.2	Acceptable

ERA	3rd / 2018	08/23/18	RAD-114	Water	µg/L	Uranium (Nat) mass	78.36	75.5	61.5 - 83.2	Acceptable
ERA	3rd / 2018	08/23/18	RAD-114	Water	µg/L	Uranium (Nat) mass	77.8	75.5	61.5 - 83.2	Acceptable
ERA	3rd / 2018	08/23/18	RAD-114	Water	pCi/L	Tritium	19900	20400	17900 - 22400	Acceptable
ERA	3rd / 2018	08/23/18	RAD-114	Water	pCi/L	Tritium	21200	20400	17900 - 22400	Acceptable
ERA	3rd / 2018	08/23/18	RAD-114	Water	pCi/L	Strontium-89	61.5	62.7	50.7 - 70.6	Acceptable
ERA	3rd / 2018	08/23/18	RAD-114	Water	pCi/L	Strontium-89	69	62.7	50.7 - 70.6	Acceptable
ERA	3rd / 2018	08/23/18	RAD-114	Water	pCi/L	Strontium-90	34.4	40.1	29.5 - 46.1	Acceptable
ERA	3rd / 2018	08/23/18	RAD-114	Water	pCi/L	Strontium-90	36.2	40.1	29.5 - 46.1	Acceptable
ERA	3rd / 2018	08/23/18	RAD-114	Water	pCi/L	Iodine-131	25.6	28.1	23.4 - 33.0	Acceptable
ERA	3rd / 2018	08/23/18	RAD-114	Water	pCi/L	Iodine-131	28.7	28.1	23.4 - 33.0	Acceptable

TABLE 5

2018 ERA PROGRAM (MRAD) PERFORMANCE EVALUATION RESULTS

PT Provider	Quarter / Year	Report Received Date	Sample Number	Sample Media	Unit	Analyte / Nuclide	GEL Value	Known value	Acceptance Range	Evaluation
ERA	1st / 2018	2/26/18	RAD-112	Water	pCi/L	Barium-133	97.6	95.1	80.2 - 105	Acceptable
ERA	1st / 2018	2/26/18	RAD-112	Water	pCi/L	Cesium-134	64.9	65.6	53.4 - 72.2	Acceptable
ERA	1st / 2018	2/26/18	RAD-112	Water	pCi/L	Cesium-137	117	112	101 - 126	Acceptable
ERA	1st / 2018	2/26/18	RAD-112	Water	pCi/L	Cobalt-60	122	114	103 - 126	Acceptable
ERA	1st / 2018	2/26/18	RAD-112	Water	pCi/L	Zinc-65	320	277	249 - 324	Acceptable
ERA	1st / 2018	2/26/18	RAD-112	Water	pCi/L	Gross Alpha	67.7	72.4	38.1 - 89.2	Acceptable
ERA	1st / 2018	2/26/18	RAD-112	Water	pCi/L	Gross Alpha	66.4	72.4	38.1 - 89.2	Acceptable
ERA	1st / 2018	2/26/18	RAD-112	Water	pCi/L	Gross Beta	47.6	54.8	37.5 - 61.7	Acceptable
ERA	1st / 2018	2/26/18	RAD-112	Water	pCi/L	Radium-226	16.2	14.2	10.6 - 16.3	Acceptable
ERA	1st / 2018	2/26/18	RAD-112	Water	pCi/L	Radium-226	16.3	14.2	10.6 - 16.3	Acceptable
ERA	1st / 2018	2/26/18	RAD-112	Water	pCi/L	Radium-226	5	4.21	2.43 - 5.81	Acceptable
ERA	1st / 2018	2/26/18	RAD-112	Water	pCi/L	Radium-228	4.44	4.21	2.43 - 5.81	Acceptable
ERA	1st / 2018	2/26/18	RAD-112	Water	pCi/L	Radium-228	65.4	58.6	47.8 - 64.5	Acceptable
ERA	1st / 2018	2/26/18	RAD-112	Water	pCi/L	Uranium (Nat)	56.4	58.6	47.8-64.5	Acceptable
ERA	1st / 2018	2/26/18	RAD-112	Water	pCi/L	Uranium (Nat)	65.4	58.6	47.8 - 64.5	Not Acceptable
ERA	1st / 2018	2/26/18	RAD-112	Water	µg/L	Uranium (Nat) mass	97.6	86.2	70.3 - 94.9	Not Acceptable
ERA	1st / 2018	2/26/18	RAD-112	Water	µg/L	Uranium (Nat) mass	93.3	86.2	70.3 - 94.9	Acceptable
ERA	1st / 2018	2/26/18	RAD-112	Water	pCi/L	Tritium	20000	21200	18600 - 23300	Acceptable
ERA	1st / 2018	2/26/18	RAD-112	Water	pCi/L	Tritium	20200	21200	18600 - 23300	Acceptable
ERA	1st / 2018	2/26/18	RAD-112	Water	pCi/L	Strontium-89	69.7	65.2	52.9 - 73.2	Acceptable
ERA	1st / 2018	2/26/18	RAD-112	Water	pCi/L	Strontium-89	68.6	65.2	52.9 - 73.2	Acceptable
ERA	1st / 2018	2/26/18	RAD-112	Water	pCi/L	Strontium-90	36.1	39.2	28.8 - 45.1	Acceptable
ERA	1st / 2018	2/26/18	RAD-112	Water	pCi/L	Strontium-90	36.9	39.2	28.8 - 45.1	Acceptable
ERA	1st / 2018	2/26/18	RAD-112	Water	pCi/L	Iodine-131	25.3	28.1	23.4 - 33.0	Acceptable
ERA	1st / 2018	2/26/18	RAD-112	Water	pCi/L	Iodine-131	28.6	28.1	23.4 - 33.0	Acceptable
ERA	3rd / 2018	08/23/18	RAD-114	Water	pCi/L	Barium-133	28.5	25.6	19.9 - 29.4	Acceptable
ERA	3rd / 2018	08/23/18	RAD-114	Water	pCi/L	Cesium-134	15.9	15.7	11.4 - 18.2	Acceptable
ERA	3rd / 2018	08/23/18	RAD-114	Water	pCi/L	Cesium-137	196	192	173 - 213	Acceptable
ERA	3rd / 2018	08/23/18	RAD-114	Water	pCi/L	Cobalt-60	122	119	107 - 133	Acceptable
ERA	3rd / 2018	08/23/18	RAD-114	Water	pCi/L	Zinc-65	196	177	159 - 208	Acceptable
ERA	3rd / 2018	08/23/18	RAD-114	Water	pCi/L	Gross Alpha	15.5	16	7.79 - 22.6	Acceptable
ERA	3rd / 2018	08/23/18	RAD-114	Water	pCi/L	Gross Alpha	18.2	16	7.79 - 22.6	Acceptable
ERA	3rd / 2018	08/23/18	RAD-114	Water	pCi/L	Gross Beta	43.6	49	33.2 - 56.1	Acceptable
ERA	3rd / 2018	08/23/18	RAD-114	Water	pCi/L	Radium-226	8.44	9.08	6.81 - 10.6	Acceptable
ERA	3rd / 2018	08/23/18	RAD-114	Water	pCi/L	Radium-228	2.72	2.28	1.07 - 3.60	Acceptable
ERA	3rd / 2018	08/23/18	RAD-114	Water	pCi/L	Radium-228	3.3	2.28	1.07 - 3.60	Acceptable
ERA	3rd / 2018	08/23/18	RAD-114	Water	pCi/L	Uranium (Nat)	53.8	51.8	42.2 - 57.1	Acceptable
ERA	3rd / 2018	08/23/18	RAD-114	Water	pCi/L	Uranium (Nat)	50.3	51.8	42.2 - 57.1	Acceptable
ERA	3rd / 2018	08/23/18	RAD-114	Water	µg/L	Uranium (Nat) mass	80.3	75.5	61.5 - 83.2	Acceptable
ERA	3rd / 2018	08/23/18	RAD-114	Water	µg/L	Uranium (Nat) mass	78.36	75.5	61.5 - 83.2	Acceptable

ERA	3rd / 2018	08/23/18	RAD-114	Water	µg/L	Uranium (Nat) mass	77.8	75.5	61.5 - 83.2	Acceptable
ERA	3rd / 2018	08/23/18	RAD-114	Water	pCi/L	Tritium	19900	20400	17900 - 22400	Acceptable
ERA	3rd / 2018	08/23/18	RAD-114	Water	pCi/L	Tritium	21200	20400	17900 - 22400	Acceptable
ERA	3rd / 2018	08/23/18	RAD-114	Water	pCi/L	Strontium-89	61.5	62.7	50.7 - 70.6	Acceptable
ERA	3rd / 2018	08/23/18	RAD-114	Water	pCi/L	Strontium-89	69	62.7	50.7 - 70.6	Acceptable
ERA	3rd / 2018	08/23/18	RAD-114	Water	pCi/L	Strontium-90	34.4	40.1	29.5 - 46.1	Acceptable
ERA	3rd / 2018	08/23/18	RAD-114	Water	pCi/L	Strontium-90	36.2	40.1	29.5 - 46.1	Acceptable
ERA	3rd / 2018	08/23/18	RAD-114	Water	pCi/L	Iodine-131	25.6	28.1	23.4 - 33.0	Acceptable
ERA	3rd / 2018	08/23/18	RAD-114	Water	pCi/L	Iodine-131	28.7	28.1	23.4 - 33.0	Acceptable

FIGURE 1

COBALT-60 PERFORMANCE EVALUATION RESULTS AND % BIAS

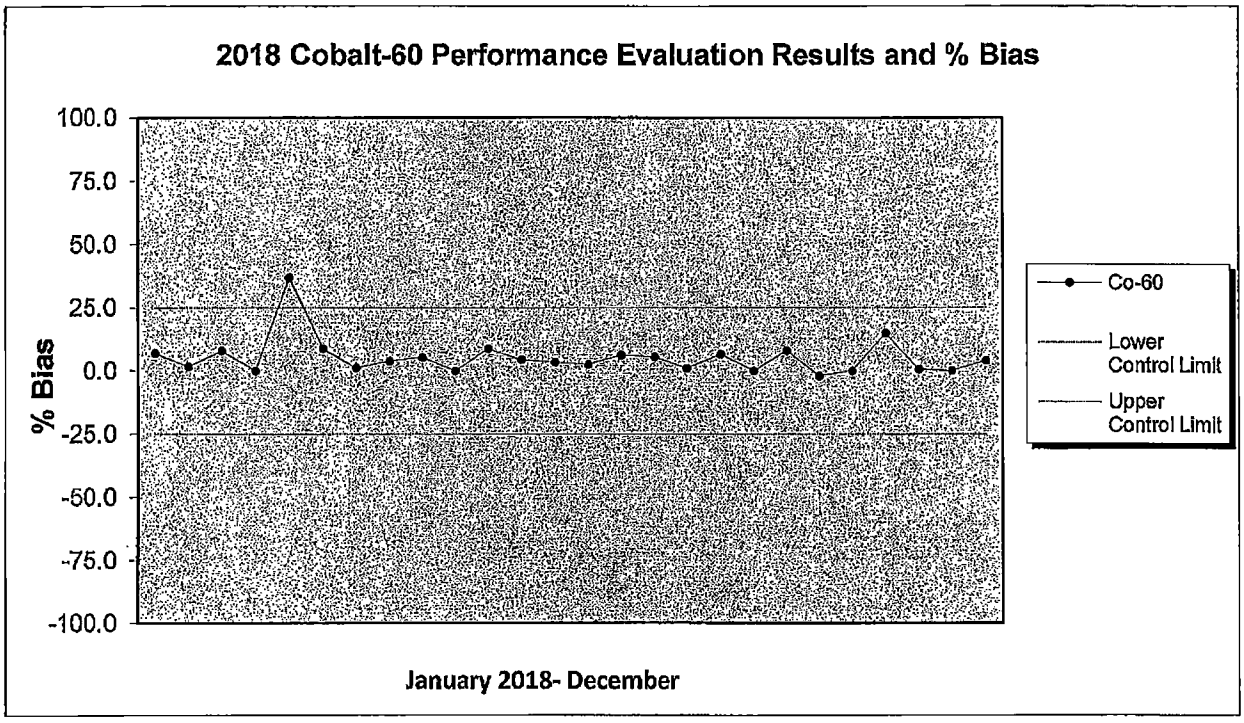

FIGURE 2

CESIUM-137 PERFORMANCE EVALUATION RESULTS AND % BIAS

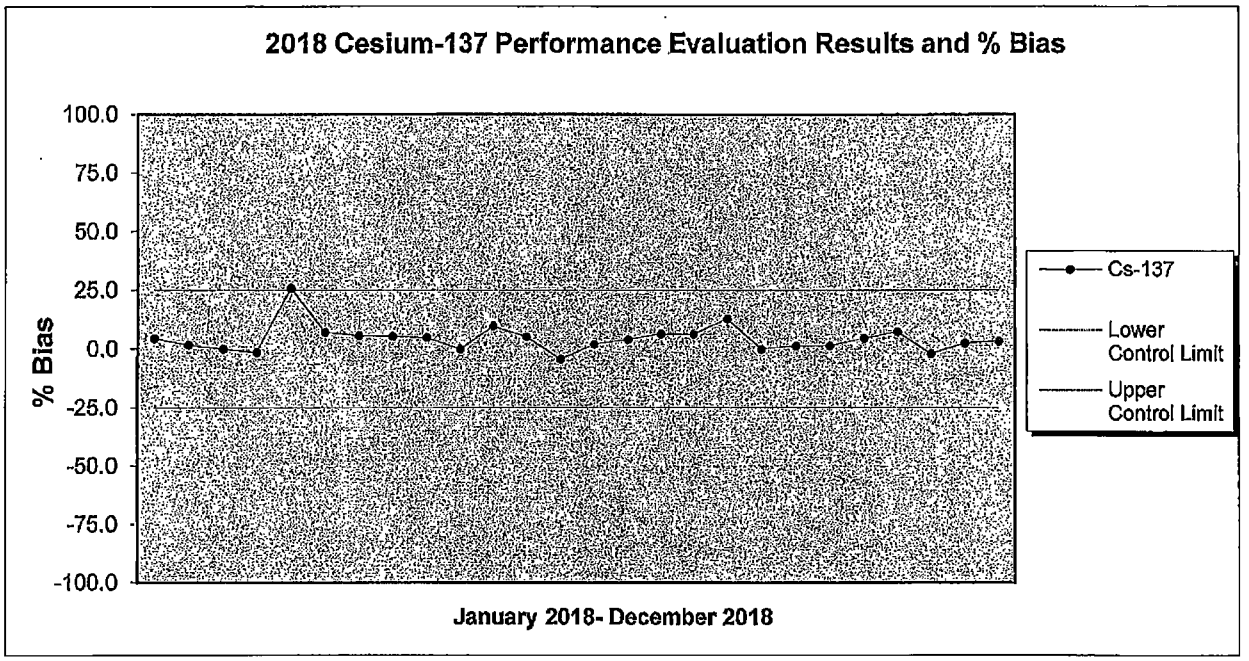

FIGURE 3

TRITIUM PERFORMANCE EVALUATION RESULTS AND % BIAS

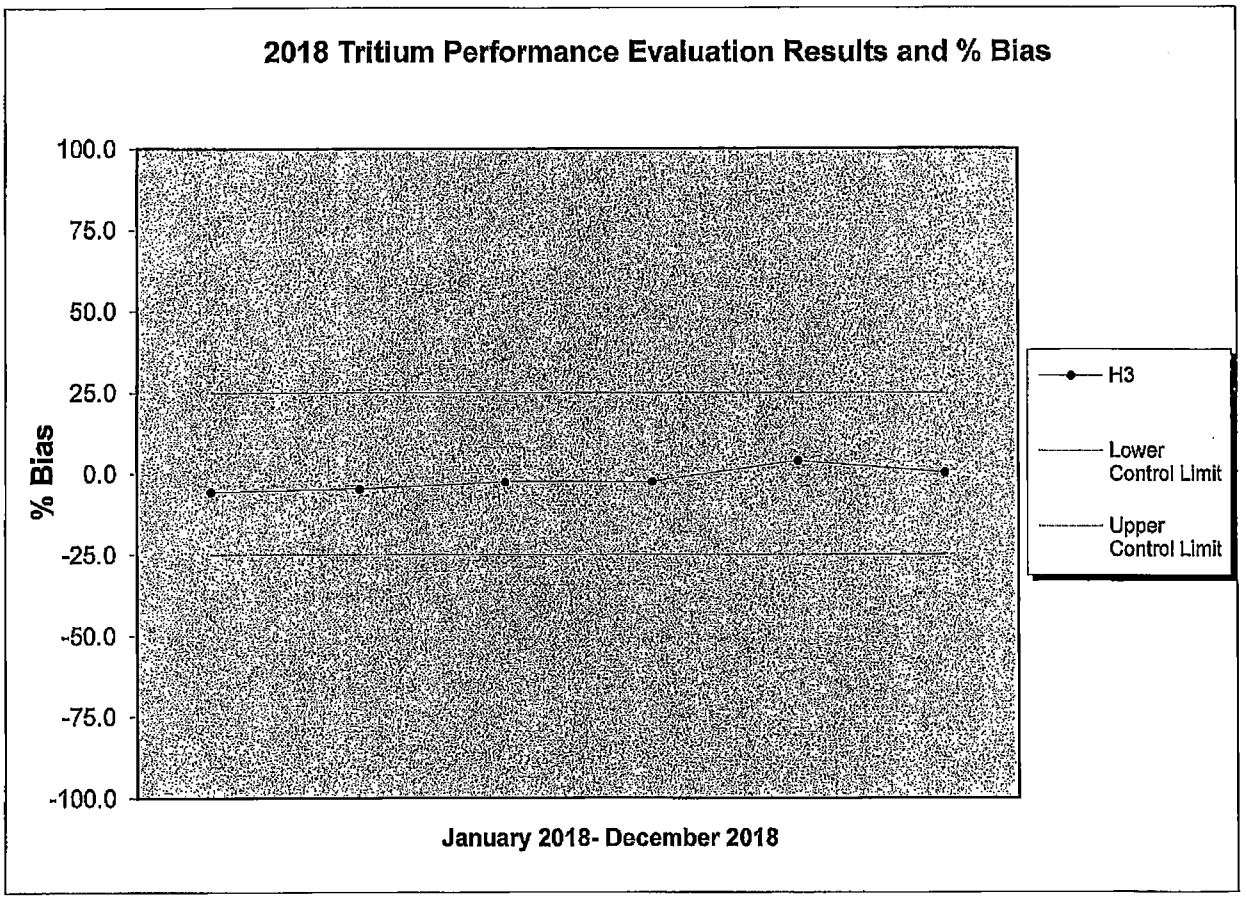

FIGURE 4

STRONTIUM-90 PERFORMANCE EVALUATION RESULTS AND % BIAS

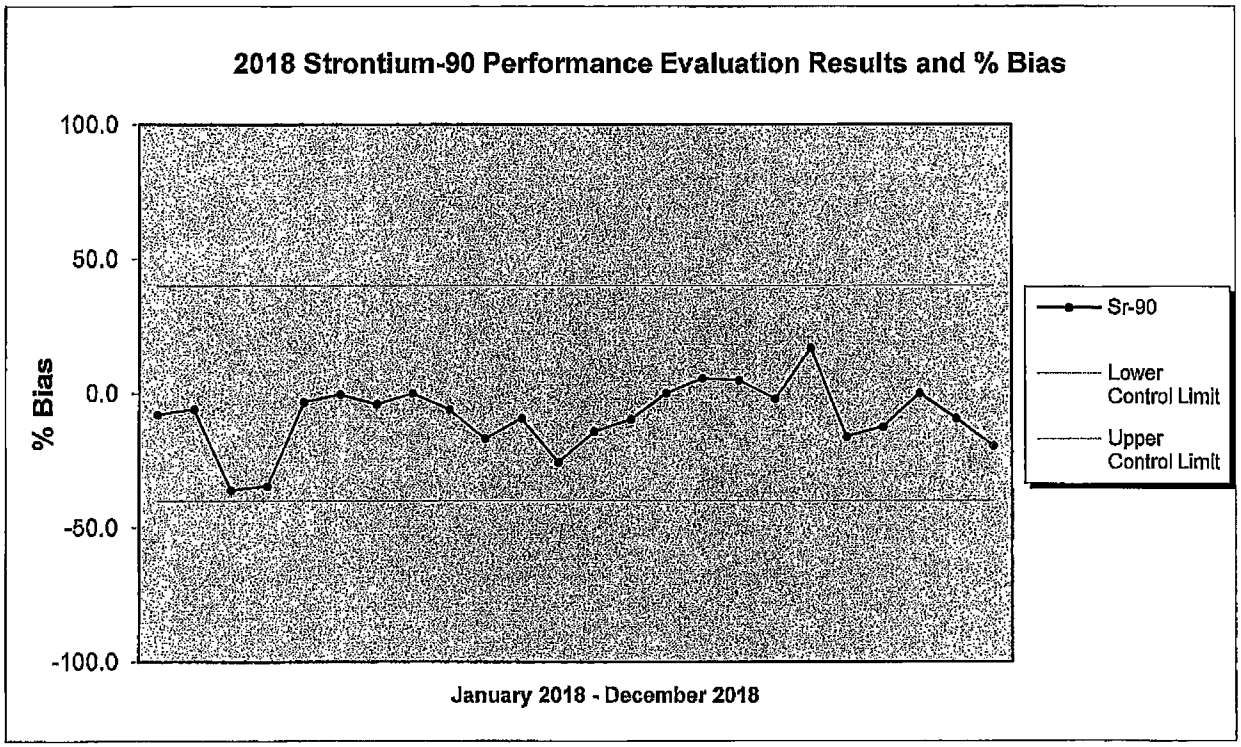

FIGURE 5

GROSS ALPHA PERFORMANCE EVALUATION RESULTS AND % BIAS

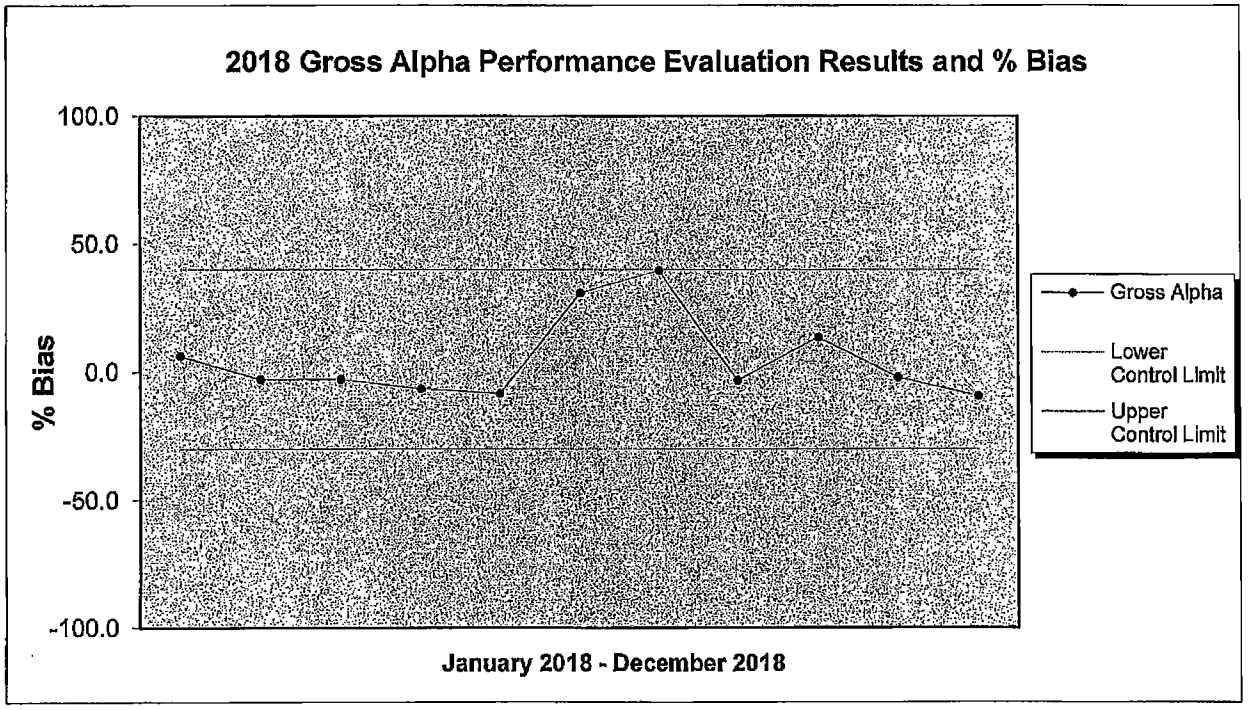

FIGURE 6

GROSS BETA PERFORMANCE EVALUATION RESULTS AND % BIAS

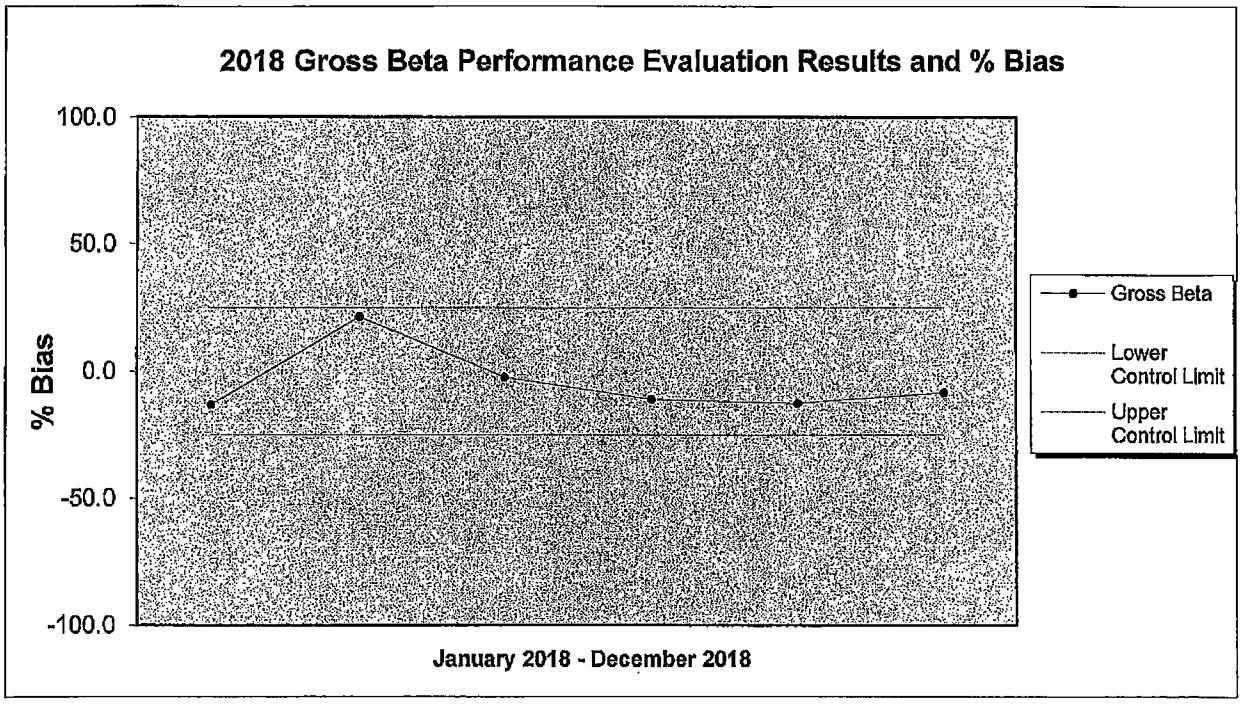

FIGURE 7

IODINE-131 PERFORMANCE EVALUATION RESULTS AND % BIAS

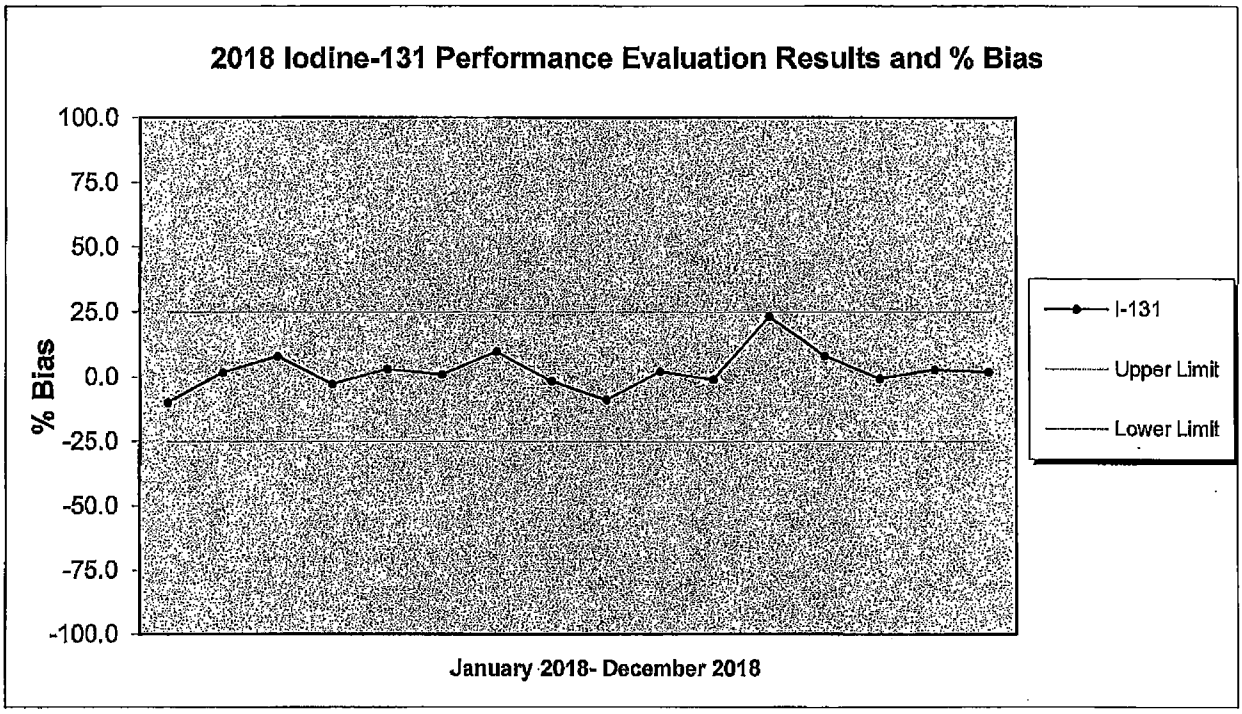

FIGURE 8

AMERICIUM-241 PERFORMANCE EVALUATION RESULTS AND % BIAS

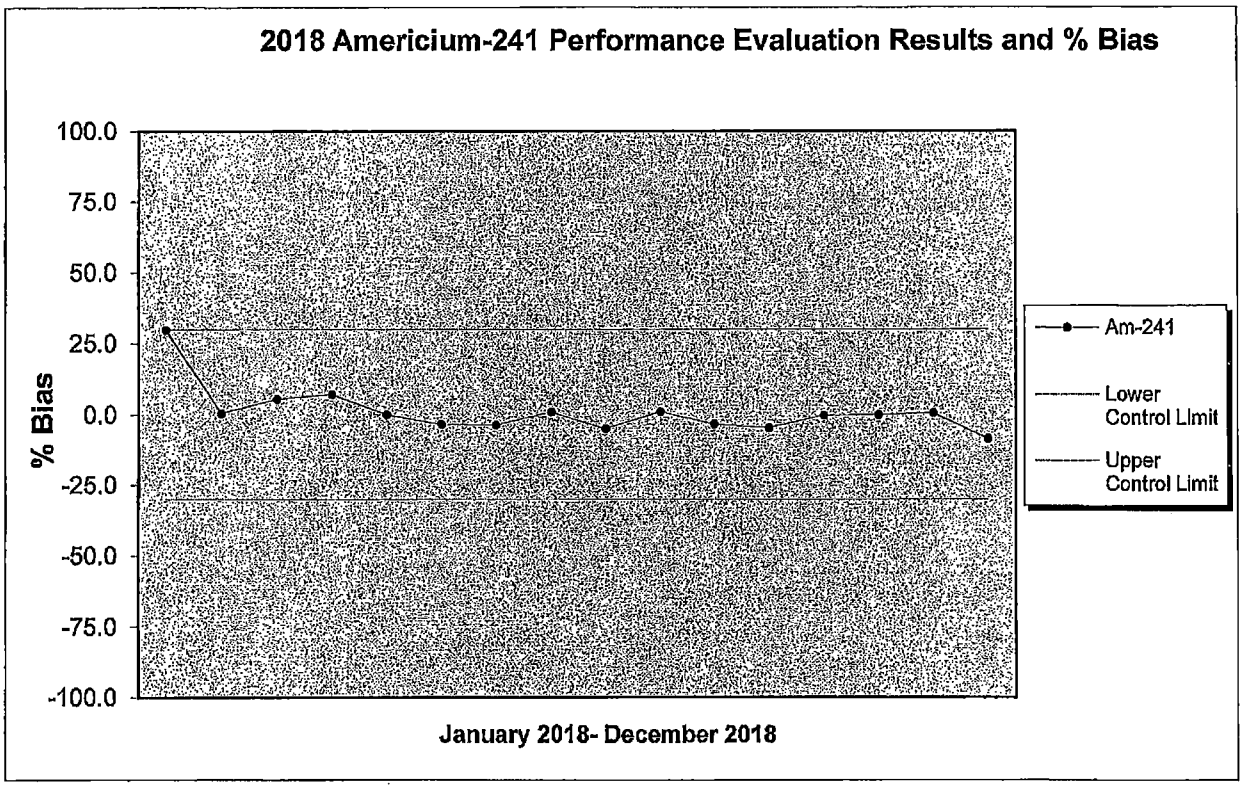

FIGURE 9

PLUTONIUM-238 PERFORMANCE EVALUATION RESULTS AND % BIAS

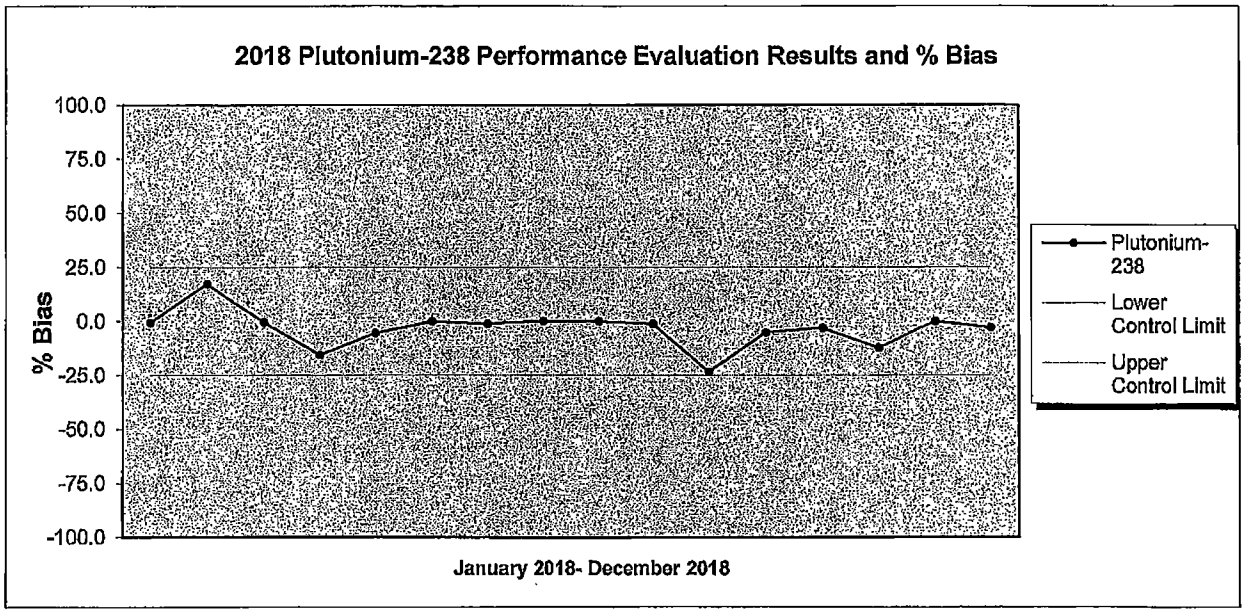

TABLE 6

REMP INTRA-LABORATORY DATA SUMMARY: BIAS AND PRECISION BY MATRIX

2018 Total All REMP Intra-Laboratory Data	Bias Criteria (+ / - 25%)		Precision Criteria (Note 1)	
	WITHIN CRITERIA	OUTSIDE CRITERIA	WITHIN CRITERIA	OUTSIDE CRITERIA
MILK				
Gas Flow Sr 2nd count	34	0	39	0
Gas Flow Total Strontium	18	0	20	0
Gamma Spec Liquid RAD A-013 with Ba, La	28	0	73	0
SOLID				
Gamma Spec Solid RAD A-013	9	0	11	0
LSC Nickel 63	3	0	3	0
Gas Flow Sr 2nd count	4	0	6	0
Gas Flow Total Strontium	3	0	4	0
Gamma Spec Solid RAD A-013 with Iodine	16	0	32	0
FILTER				
Gamma Iodine 131 RAD A-013	0	0	1	0
Gamma Spec Filter RAD A-013	0	0	1	0
Gas Flow Sr 2nd Count	6	0	6	0
Gross A & B	446	0	300	0
Gamma Spec Filter	27	0	66	0
LIQUID				
Alpha Spec Uranium	7	0	9	0
Tritium	155	0	205	0
LSC Iron-55	15	0	20	0
LSC Nickel 63	14	0	14	0
Gamma Iodine-131	21	0	21	0
Alpha Spec Plutonium	9	0	9	0
Gas Flow Sr 2nd count	10	0	9	0
Alpha Spec Am241 Curium	9	0	9	0
Gas Flow Total Strontium	11	0	13	0
Gross Alpha Non Vol Beta	33	0	62	0
Gamma Spec Liquid RAD A-013 with Ba, La	50	0	118	0
Gamma Spec Liquid RAD A-013 with Iodine	21	0	92	0
TISSUE				
Gamma Spec Solid RAD A-013	34	0	35	0
Gas Flow Sr 2nd count	10	0	9	0
Gas Flow Total Strontium	8	0	8	0
Gamma Spec Solid RAD A-013 with Iodine	16	0	14	0
SEA WATER				
LSC Iron-55	1	0	1	0

LSC Nickel 63	1	0	1	0
Gas Flow Total Strontium	1	0	1	0
Gross Alpha Non Vol Beta	1	0	1	0
Gamma Spec Liquid RAD A-013 with Iodine	1	0	1	0
VEGETATION				
Gamma Spec Solid RAD A-013	9	0	11	0
Gas Flow Sr 2nd count	16	0	16	0
Gas Flow Total Strontium	2	0	2	0
Gamma Spec Solid RAD A-013 with Iodine	75	0	91	0
AIR CHARCOAL				
Gamma Iodine 131 RAD A-013	356	0	561	0
Carbon-14 (Ascarite/Soda Lime Filter per Liter)	28	0	28	0
DRINKING WATER				
Tritium	29	0	34	0
LSC Iron-55	15	0	15	0
LSC Nickel 63	15	0	15	0
Gamma Iodine-131	20	0	15	0
Gas Flow Sr 2nd count	6	0	5	0
Gas Flow Total Strontium	14	0	12	0
Gross Alpha Non Vol Beta	50	0	60	0
Gamma Spec Liquid RAD A-013 with Ba, La	15	0	43	0
Gamma Spec Liquid RAD A-013 with Iodine	0	0	8	0
Total	**1672**	**0**	**2130**	**0**

Note 1: The RPD must be 20 percent or less, if both samples are greater than 5 times the MDC. If both results are less than 5 times MDC, then the RPD must be equal to or less than 100%. If one result is above the MDC and the other is below the MDC, then the RPD can be calculated using the MDC for the result of the one below the MDC. The RPD must be 100% or less. In the situation where both results are above the MDC but one result is greater than 5 times the MDC and the other is less than 5 times the MDC, the RPD must be less than or equal to 20%. If both results are below MDC, then the limits on % RPD are not applicable.

TABLE 7

ALL RADIOLOGICAL INTRA-LABORATORY DATA SUMMARY: BIAS AND PRECISION BY MATRIX:

2018 Total All RAD Intra-Laboratory Data	Bias Criteria (+/- 25%)		Precision Criteria (Note 1)	
	WITHIN CRITERIA	OUTSIDE CRITERIA	WITHIN CRITERIA	OUTSIDE CRITERIA
MILK				
Gamma Spec Liquid RAD A-013	3	0	3	0
Gamma Iodine-129	4	0	4	0
Gamma Iodine-131	9	0	95	0
Gas Flow Sr 2nd count	34	0	39	0
Gas Flow Strontium 90	8	0	8	0
Gas Flow Total Strontium	18	0	20	0
Gamma Spec Liquid RAD A-013 with Ba, La	28	0	73	0
Gamma Spec Liquid RAD A-013 with Iodine	3	0	4	0
SOLID				
Gamma Percent Leach	5	0	0	0
Gas Flow Radium 228	85	0	91	0
Tritium	258	0	283	0
Tritium by Pyrolysis	9	0	19	0
Carbon-14	178	0	218	0
Carbon-14 by Pyrolysis	9	0	18	0
LSC Iron-55	105	0	107	0
Alpha Spec Polonium Solid	65	0	95	0
Gamma Nickel 59 RAD A-022	114	0	120	0
LSC Chlorine-36 in Solids	4	0	5	0
Gamma Spec Ra226 RAD A-013	23	0	27	0
Gamma Spec Solid RAD A-013	926	0	1282	0
LSC Nickel 63	186	0	190	0
LSC Plutonium	222	0	226	0
Technetium-99	406	0	440	0
Gamma Spec Filter RAD A-013	0	0	1	0
Gamma Spec Liquid RAD A-013	3	0	3	0
Gross Alpha Beta Soil Leach	23	0	24	0
ICP-MS Technetium-99 in Soil	7	0	4	0
LSC Selenium 79	14	0	13	0
Total Activity,	2	0	2	0
Tritium	16	0	14	0
Alpha Spec Am243	65	0	71	0
Gamma Iodine-129	109	0	122	0
Gross Alpha/Beta	0	0	2	0

Gas Flow Lead 210	2	0	4	0
Total Uranium KPA	3	0	8	0
Alpha Spec Uranium	424	0	499	0
LSC Promethium 147	12	0	18	0
LSC, Rapid Strontium 89 and 90	51	0	61	0
Alpha Spec Thorium	360	0	422	0
Gas Flow Radium 228	0	0	20	0
ICP-MS Uranium-233, 234 in Solid	29	0	34	0
Alpha Spec Plutonium	455	0	488	0
ICP-MS Technetium-99 Prep in Soil	7	0	7	0
LSC Calcium 45	1	0	1	0
Alpha Spec Neptunium	347	0	358	0
Alpha Spec Plutonium	114	0	128	0
Alpha Spec Radium 226	21	0	32	0
Gas Flow Sr 2nd count	22	0	30	0
Gas Flow Strontium 90	244	0	248	0
Gas Flow Total Radium	3	0	0	0
Lucas Cell Radium 226	107	0	126	0
Alpha Spec Am241 Curium	312	0	329	0
Alpha Spec Total Uranium	21	0	32	0
Gas Flow Total Strontium	89	0	92	0
Gross Alpha Beta (F,U) Am Calibration	4	0	4	0
Gross Alpha Non Vol Beta	3	0	3	0
ICP-MS Uranium-233, 234 Prep in Solid	35	0	37	0
ICP-MS Uranium-235, 236, 238 in Solid	48	0	34	0
Alpha Spec Polonium Solid	0	0	1	0
Gamma Spec Solid RAD A-013 with Iodine	16	0	32	0
GFC Chlorine-36 in Solids	7	0	11	0
Gamma Spec Solid RAD A-013 (pCi/Sample)	7	0	7	0
Technetium-99	3	0	3	0
Tritium	5	0	5	0
Alpha Spec Am241 (pCi/Sample)	6	0	8	0
ICP-MS Uranium-234, 235, 236, 238 in Solid	154	0	145	0
ICP-MS Uranium-235, 236, 238 Prep in Solid	34	0	36	0
Alpha Spec Thorium	3	0	6	0
Gross Alpha/Beta (Am/Cs Calibration) Solid	4	0	4	0
ICP-MS U-234, 235, 236, 238 Prep per sample	5	0	4	0
Alpha Spec Uranium	0	0	1	0
Gross Alpha/Beta	352	0	478	0
Alpha Spec Neptunium	3	0	3	0
Alpha Spec Plutonium	4	0	6	0
Gas Flow Strontium 90	3	0	4	0
Gross Alpha/Beta (Americium Calibration) Solid	8	0	9	0

ICP-MS Uranium-234, 235, 236, 238 Prep in Solid	73	0	70	0
Gross Alpha Beta (F,U)	14	0	17	0
FILTER				
Alpha Spec Uranium	7	0	17	0
Alpha Spec Polonium	0	0	3	0
Gamma I-131, filter	4	0	4	0
LSC Plutonium Filter	72	0	104	0
Tritium	52	0	165	0
Tritium by Pyrolysis	2	0	2	0
Carbon-14	15	0	85	0
Carbon-14 by Pyrolysis	2	0	2	0
ICP-MS Tc-99 in Filter	0	0	4	0
Nickel-63	0	0	30	0
LSC Iron-55	51	0	75	0
Gamma Nickel 59 RAD A-022	66	0	86	0
Alpha Spec Californium FPL	0	0	1	0
Gamma Iodine 131 RAD A-013	0	0	1	0
LSC Nickel 63	57	0	73	0
Technetium-99	18	0	76	0
Gamma Spec Filter RAD A-013	124	0	188	0
ICP-MS Tc-99 Prep in Filter	0	0	4	0
LSC Chlorine-36 in Filters	0	0	1	0
Alphaspec Np Filter per Liter	17	0	34	0
Alphaspec Pu Filter per Liter	23	0	26	0
Gamma Iodine-125	2	0	0	0
Gamma Iodine-129	2	0	62	0
Alpha Spec Am243	12	0	18	0
Total Uranium KPA	3	0	8	0
Alpha Spec Uranium	55	0	86	0
LSC Promethium 147	3	0	6	0
LSC, Rapid Strontium 89 and 90	69	0	89	0
Alpha Spec Thorium	35	0	54	0
Gas Flow Radium 228	0	0	1	0
Alpha Spec Plutonium	72	0	121	0
ICP-MS Uranium-233, 234 in Filter	0	0	3	0
Alpha Spec Neptunium	54	0	69	0
Alpha Spec Plutonium	68	0	101	0
Alpha Spec Plutonium	6	0	7	0
Alpha Spec Polonium,(Filter/Liter)	0	0	2	0
Alpha Spec Radium 226	0	0	4	0
Alpha/Beta (Americium Calibration)	1	0	4	0
Gas Flow Sr 2nd Count	50	0	66	0

Gas Flow Strontium 90	67	0	98	0
LSC Plutonium 241 Filter per Liter	27	0	39	0
Lucas Cell Radium-226	0	0	1	0
Alpha Spec Am241Curium	105	0	166	0
Gas Flow Total Strontium	0	0	1	0
ICP-MS Uranium-233, 234 Prep in Filter	0	0	3	0
ICP-MS Uranium-235, 236, 238 in Filter	0	0	4	0
Total Activity in Filter,	0	0	2	0
Alphaspec Am241 Curium Filter per Liter	24	0	40	0
Tritium	79	0	105	0
Gamma Spec Filter RAD A-013 Direct Count	2	0	7	0
Carbon-14	27	0	32	0
GFC Chlorine-36 In Filters PL	1	0	1	0
Gross A & B (Americium Calibration) Liquid	1	0	35	0
Direct Count-Gross Alpha/Beta	70	0	0	0
Gross Alpha/Beta	30	0	40	0
ICP-MS Uranium-234, 235, 236, 238 in Filter	4	0	10	0
ICP-MS Uranium-235, 236, 238 Prep in Filter	0	0	4	0
Alpha Spec U	22	0	51	0
Gross A & B	491	0	353	0
LSC Iron-55	5	0	13	0
Technetium-99	25	0	35	0
Gas Flow Sr-90	21	0	41	0
LSC Nickel 63	30	0	48	0
Gamma Spec Charcoal	7	0	8	0
Gas Flow Pb-210	14	0	32	0
Gas Flow Ra-228	17	0	32	0
Gross Alpha Beta (Flame, Unflame)	5	0	5	0
Direct Count- Alpha/Beta (Americium Calibration)	6	0	0	0
Gamma Iodine 129	29	0	30	0
ICP-MS Uranium-234, 235, 236, 238 Prep in Filter	2	0	5	0
Gamma Spec Filter	64	0	122	0
Lucas Cell Ra-226	14	0	25	0
Alpha Spec Thorium	18	0	38	0
Gross Alpha Beta Am/Cs Cal(Fl, Unfl)	2	0	2	0
LIQUID				
Alpha Spec Uranium	456	0	686	0
Alpha Spec Polonium	10	0	18	0
Gas Flow Radium 228	1	0	1	0
Tritium	1080	0	1204	0
Carbon-14	146	0	170	0
Plutonium	90	0	102	0

Chlorine-36 in Liquids	4	0	4	0
Iodine-131	4	0	1	0
LSC Iron-55	89	0	136	0
Alpha Spec Polonium Solid	1	0	1	0
Gamma Nickel 59 RAD A-022	10	0	29	0
Gamma Iodine 131 RAD A-013	2	0	2	0
Gamma Spec Solid RAD A-013	1	0	1	0
LSC Nickel 63	130	0	171	0
LSC Radon 222	14	0	12	0
Technetium-99	442	0	514	0
Direct Tritium	1	0	1	0
Gamma Spec Liquid RAD A-013	711	0	782	0
Alpha Spec Total U RAD A-011	25	0	34	0
LSC Selenium 79	33	0	34	0
Total Activity,	3	0	4	0
Alpha Spec Am243	23	0	26	0
Gamma Iodine-129	128	0	144	0
Gamma Iodine-131	21	0	21	0
ICP-MS Technetium-99 in Water	5	0	13	0
Gas Flow Lead 210	22	0	33	0
Total Uranium KPA	29	0	78	0
LSC Promethium 147	18	0	19	0
LSC, Rapid Strontium 89 and 90	6	0	10	0
Alpha Spec Polonium	1	0	0	0
Alpha Spec Thorium	212	0	292	0
Gas Flow Radium 228	377	0	416	0
Gas Flow Radium 228	9	0	8	0
Alpha Spec Plutonium	363	0	470	0
LSC Sulfur 35	13	0	13	0
Alpha Spec Neptunium	129	0	191	0
Alpha Spec Plutonium	23	0	28	0
Alpha Spec Radium 226	39	0	47	0
Gas Flow Sr 2nd count	89	0	128	0
Gas Flow Strontium 90	458	0	559	0
Gas Flow Total Radium	58	0	87	0
ICP-MS Technetium-99 Prep in Water	5	0	13	0
ICP-MS Uranium-233, 234 in Liquid	16	0	17	0
LSC Calcium 45	12	0	12	0
Lucas Cell Radium 226	330	0	353	0
Lucas Cell Radium-226	7	0	6	0
Chlorine-36 in Liquids	11	0	14	0
Alpha Spec Am241 Curium	294	0	390	0
Gas Flow Total Strontium	82	0	94	0

Gross Alpha Non Vol Beta	859	0	1095	0
LSC Phosphorus-32	4	0	4	0
ICP-MS Uranium-233, 234 Prep in Liquid	16	0	17	0
Tritium in Drinking Water by EPA 906.0	3	0	3	0
Gamma Spec Liquid RAD A-013 with Ba, La	50	0	127	0
Gamma Spec Liquid RAD A-013 with Iodine	110	0	188	0
Gas Flow Strontium 89 & 90	2	0	1	0
ICP-MS Uranium-235, 236, 238 in Liquid	20	0	18	0
Gas Flow Total Alpha Radium	6	0	2	0
Gross Alpha Co-precipitation	3	0	10	0
ICP-MS Uranium-235, 236, 238 Prep in Liquid	18	0	19	0
Gross Alpha/Beta	0	0	4	0
ICP-MS Uranium-234, 235, 236, 238 in Liquid	100	0	104	0
Gross Alpha Beta (Flame, Unflame)	193	0	197	0
Gross Alpha Beta (Americium Calibration) Liquid	34	0	81	0
ICP-MS Uranium-234, 235, 236, 238 Prep in Liquid	51	0	53	0
Alpha/Beta (Americium Calibration) Drinking Water	18	0	21	0
ECLS-R-GA NJ 48 Hr Rapid Gross Alpha	2	0	2	0
TISSUE				
Gamma Spec Solid RAD A-013	48	0	63	0
Alpha Spec Uranium	4	0	7	0
Alpha Spec Plutonium	10	0	10	0
Gas Flow Sr 2nd count	10	0	9	0
Gas Flow Strontium 90	14	0	14	0
Alpha Spec Am241 Curium	4	0	4	0
Gas Flow Total Strontium	8	0	8	0
Gamma Spec Solid RAD A-013 with Iodine	16	0	14	0
Gross Alpha/Beta	0	0	1	0
SEA WATER				
LSC Iron-55	1	0	1	0
LSC Nickel 63	1	0	1	0
Gas Flow Total Strontium	1	0	1	0
Gross Alpha Non Vol Beta	1	0	1	0
Gamma Spec Liquid RAD A-013 with Iodine	1	0	1	0
VEGETATION				
Carbon-14	5	0	5	0
Gamma Nickel 59 RAD A-022	1	0	1	0
Gamma Spec Solid RAD A-013	24	0	27	0
LSC Nickel 63	1	0	1	0
LSC Plutonium	1	0	1	0
Technetium-99	1	0	1	0
Tritium	1	0	1	0

Gamma Iodine-129	1	0	1	0
Gas Flow Lead 210	2	0	4	0
Alpha Spec Uranium	16	0	21	0
Alpha Spec Thorium	7	0	8	0
Alpha Spec Plutonium	17	0	15	0
Alpha Spec Neptunium	1	0	1	0
Alpha Spec Plutonium	1	0	1	0
Gas Flow Sr 2nd count	16	0	16	0
Gas Flow Strontium 90	15	0	13	0
Gas Flow Total Radium	3	0	3	0
Lucas Cell Radium 226	0	0	1	0
Alpha Spec Am241 Curium	7	0	5	0
Gas Flow Total Strontium	2	0	2	0
Gamma Spec Solid RAD A-013 with Iodine	75	0	91	0
Gamma Spec Solid RAD A-013 (pCi/Sample)	2	0	2	0
Alpha Spec Am241 (pCi/Sample)	2	0	2	0
Alpha Spec Uranium	0	0	2	0
Gross Alpha/Beta	3	0	4	0
Alpha Spec Plutonium	0	0	2	0
Gas Flow Strontium 90	4	0	2	0
AIR CHARCOAL				
Carbon-14	1	0	11	0
Carbon-14	1	0	1	0
Gamma Iodine 131 RAD A-013	356	0	561	0
Gamma Iodine-125	1	0	0	0
Gamma Iodine-129	29	0	9	0
Carbon-14	12	0	10	0
Carbon-14 (Ascarite/Soda Lime Filter per Liter)	28	0	28	0
Gamma Spec Charcoal	8	0	8	0
Gamma Iodine 129	12	0	12	0
Gamma Spec Filter	4	0	4	0
DRINKING WATER				
Alpha Spec Uranium	1	0	1	0
Tritium	29	0	34	0
Iodine-131	0	0	19	0
LSC Iron-55	15	0	15	0
LSC Nickel 63	15	0	15	0
LSC Radon 222	24	0	23	0
Gamma Spec Liquid RAD A-013	6	0	7	0
Gamma Iodine-129	2	0	3	0
Gamma Iodine-131	20	0	15	0
Total Uranium KPA	5	0	10	0
Gas Flow Radium 228	35	0	46	0

Gas Flow Sr 2nd count	6	0	5	0
Gas Flow Strontium 90	7	0	17	0
Lucas Cell Radium-226	32	0	40	0
Gamma Spec Drinking Water RAD A-013	18	0	29	0
Gas Flow Total Strontium	14	0	12	0
Gross Alpha Non Vol Beta	147	0	181	0
Tritium In Drinking Water by EPA 906.0	48	0	62	0
Gamma Spec Liquid RAD A-013 with Ba, La	15	0	43	0
Gamma Spec Liquid RAD A-013 with Iodine	0	0	8	0
Gas Flow Strontium 89 & 90	8	0	6	0
Gas Flow Total Alpha Radium	0	0	1	0
Alpha/Beta (Americium Calibration) Drinking Water	15	0	14	0
ECLS-R-GA NJ 48 Hr Rapid Gross Alpha	6	0	5	0
Total	**17276**	**0**	**21556**	**0**

Note 1: The RPD must be 20 percent or less, if both samples are greater than 5 times the MDC. If both results are less than 5 times MDC, then the RPD must be equal to or less than 100%. If one result is above the MDC and the other is below the MDC, then the RPD can be calculated using the MDC for the result of the one below the MDC. The RPD must be 100% or less. In the situation where both results are above the MDC but one result is greater than 5 times the MDC and the other is less than 5 times the MDC, the RPD must be less than or equal to 20%. If both results are below MDC, then the limits on % RPD are not applicable.

TABLE 8

2018 CORRECTIVE ACTION REPORT SUMMARY

CORRECTIVE ACTION ID# & PE FAILURE	DISPOSITION
CARR180226-1150 ISO Documentation of PT Failures in RAD 112 for Uranium	**Root Cause Analysis** **Natural Uranium (and mass) via KPA – ASTM D1574-97, -02** After a review of the data, it was determined that an unknown error occurred during the preparation and/or analysis of these samples because all quality control criteria were met for the batch. Both reported values fell slightly above the acceptance criteria of the study. **Permanent Corrective/Preventive Actions or Improvements** The laboratory must assume unidentified random errors caused the biases because all quality control criteria were met for the batches. The sample was re-analyzed after the "Not Acceptable" rating was received and a result that fell within the acceptance range was obtained.
CARR180522-1154 ISO Documentation of PT Failures in MRAD-28 for Uranium-234, Uranium-238, Uranium-Total (mass), and Cobalt-60 in Vegetation	**Root Cause Analysis** **Cobalt** The data was reviewed and no anomalies noted. The Duplicate result of the original analysis met the acceptance criteria of the study. The laboratory analyzed a separate aliquot of the sample and while the Co-60 was within limits, the results in general demonstrated a high bias. **Uranium** The data was reviewed and no anomalies noted. A reanalysis was performed and results were within acceptance limits. A homogenization issue is suspected due to additional high bias in other alpha spec parameters. **Permanent Corrective/Preventive Actions or Improvements :** The laboratory will continue to monitor the recoveries of these parameters in both methods for vegetation to ensure that there are no continued issues as well as evaluating the homogenization process. The sample was reanalyzed according to the same procedures as the original results and reanalysis results for the isotopes were within acceptance limits.

CARR181120-1190 ISO Documentation of PT Failure in MRAD-29 for Fe-55 in water.	**Root Cause Analysis** **Iron-55** The data was reviewed and no errors were noted. The laboratory analyzed a separate aliquot of the sample which met replication criteria with in the analysis batch. All other QC met criteria. Due to the high bias being nearly twice the reference value, it is suspected that the laboratory recoded an incorrect aliquot during the analysis process. The typical aliquot for this PT analysis is 20 mL and an aliquot of 10 mL was recorded as the aliquot used. A reanalysis was performed and results were within acceptance limits The laboratory will continue to monitor the recoveries of this parameters to ensure that there are no continued issues in the process. **Permanent Corrective/Preventive Actions or Improvements** None needed at this time. The laboratory must assume unidentified random errors caused the biases because all quality control criteria were met for the batches.

Sample Data For: "A-1"

Matrix	Collect Date	Parmname	Units	Result	MDC	LLD	Qualifier
Air Particulate	1/5/2018 23:00	BETA	pCi/m3	6.85E-02	2.38E-03	1.00E-02	
Air Particulate	1/12/2018 21:51	BETA	pCi/m3	4.20E-02	2.31E-03	1.00E-02	
Air Particulate	1/19/2018 9:47	BETA	pCi/m3	4.40E-02	2.58E-03	1.00E-02	
Air Particulate	1/26/2018 10:06	BETA	pCi/m3	3.63E-02	1.93E-03	1.00E-02	
Air Particulate	2/2/2018 21:55	BETA	pCi/m3	5.44E-02	2.69E-03	1.00E-02	
Air Particulate	2/9/2018 22:22	BETA	pCi/m3	5.61E-02	2.71E-03	1.00E-02	
Air Particulate	2/16/2018 21:54	BETA	pCi/m3	3.81E-02	2.74E-03	1.00E-02	
Air Particulate	2/23/2018 21:27	BETA	pCi/m3	2.39E-02	2.62E-03	1.00E-02	
Air Particulate	3/2/2018 23:20	BETA	pCi/m3	3.59E-02	2.29E-03	1.00E-02	
Air Particulate	3/9/2018 23:43	BETA	pCi/m3	4.34E-02	2.63E-03	1.00E-02	
Air Particulate	3/16/2018 22:33	BETA	pCi/m3	3.64E-02	2.34E-03	1.00E-02	
Air Particulate	3/23/2018 22:27	BETA	pCi/m3	4.57E-02	3.76E-03	1.00E-02	
Air Particulate	3/30/2018 22:09	BETA	pCi/m3	3.95E-02	2.89E-03	1.00E-02	
Air Particulate	4/6/2018 21:24	BETA	pCi/m3	3.96E-02	3.81E-03	1.00E-02	
Air Particulate	4/13/2018 20:39	BETA	pCi/m3	4.37E-02	3.02E-03	1.00E-02	
Air Particulate	4/20/2018 20:55	BETA	pCi/m3	3.69E-02	3.62E-03	1.00E-02	
Air Particulate	4/27/2018 21:11	BETA	pCi/m3	3.93E-02	2.95E-03	1.00E-02	
Air Particulate	5/4/2018 21:44	BETA	pCi/m3	4.08E-02	3.13E-03	1.00E-02	
Air Particulate	5/11/2018 22:18	BETA	pCi/m3	5.89E-02	3.60E-03	1.00E-02	
Air Particulate	2/9/2018 22:32	Actinium-228	pCi/m3	2.35E-04	2.52E-03		U
Air Particulate	2/9/2018 22:32	Antimony-124	pCi/m3	7.06E-05	4.44E-03		U
Air Particulate	2/9/2018 22:32	Antimony-125	pCi/m3	-2.00E-04	1.28E-03		U
Air Particulate	2/9/2018 22:32	Barium-140	pCi/m3	-1.31E-02	4.57E-01		U
Air Particulate	2/9/2018 22:32	Beryllium-7	pCi/m3	1.89E-01	1.49E-02		
Air Particulate	2/9/2018 22:32	Cerium-141	pCi/m3	5.27E-04	4.02E-03		U
Air Particulate	2/9/2018 22:32	Cerium-144	pCi/m3	6.20E-04	2.48E-03		U
Air Particulate	2/9/2018 22:32	Cesium-134	pCi/m3	1.53E-04	6.35E-04	5.00E-02	U
Air Particulate	2/9/2018 22:32	Cesium-137	pCi/m3	-9.11E-05	5.05E-04	6.00E-02	U
Air Particulate	2/9/2018 22:32	Cobalt-57	pCi/m3	2.59E-05	2.80E-04		U
Air Particulate	2/9/2018 22:32	Cobalt-58	pCi/m3	-9.70E-04	7.41E-04		U
Air Particulate	2/9/2018 22:32	Cobalt-60	pCi/m3	-4.28E-05	5.11E-04		U
Air Particulate	2/9/2018 22:32	Iodine-131	pCi/m3	-7.83E-01	0.00E+00		U
Air Particulate	2/9/2018 22:32	Iron-59	pCi/m3	8.28E-04	5.78E-03		U
Air Particulate	2/9/2018 22:32	Lanthanum-140	pCi/m3	6.99E-03	2.28E-01		U
Air Particulate	2/9/2018 22:32	Manganese-54	pCi/m3	3.25E-06	6.33E-04		U
Air Particulate	2/9/2018 22:32	Niobium-95	pCi/m3	4.97E-04	1.61E-03		U
Air Particulate	2/9/2018 22:32	Potassium-40	pCi/m3	1.11E-02	5.62E-03		
Air Particulate	2/9/2018 22:32	Ruthenium-103	pCi/m3	-1.26E-04	2.20E-03		U
Air Particulate	2/9/2018 22:32	Ruthenium-106	pCi/m3	7.82E-04	6.10E-03		U
Air Particulate	2/9/2018 22:32	Selenium-75	pCi/m3	-3.86E-04	7.36E-04		U
Air Particulate	2/9/2018 22:32	Silver-108m	pCi/m3	1.67E-04	4.72E-04		U

Air Particulate	2/9/2018 22:32	Silver-110m	pCi/m3	-2.21E-04	7.58E-04		U
Air Particulate	2/9/2018 22:32	Thorium-228	pCi/m3	-1.18E-04	7.08E-04		U
Air Particulate	2/9/2018 22:32	Zinc-65	pCi/m3	3.72E-04	1.92E-03		U
Air Particulate	2/9/2018 22:32	Zirconium-95	pCi/m3	1.06E-03	2.72E-03		U
Air Particulate	5/18/2018 21:39	BETA	pCi/m3	3.39E-02	2.93E-03	1.00E-02	
Air Particulate	5/25/2018 21:48	BETA	pCi/m3	2.91E-02	2.90E-03	1.00E-02	
Air Particulate	6/1/2018 21:53	BETA	pCi/m3	3.66E-02	2.83E-03	1.00E-02	
Air Particulate	6/8/2018 21:32	BETA	pCi/m3	4.17E-02	2.80E-03	1.00E-02	
Air Particulate	6/15/2018 21:39	BETA	pCi/m3	2.24E-02	2.99E-03	1.00E-02	
Air Particulate	6/22/2018 22:54	BETA	pCi/m3	4.25E-02	2.84E-03	1.00E-02	
Air Particulate	6/29/2018 21:14	BETA	pCi/m3	4.74E-02	3.69E-03	1.00E-02	
Air Particulate	7/6/2018 19:50	BETA	pCi/m3	3.10E-02	2.85E-03	1.00E-02	
Air Particulate	7/13/2018 21:46	BETA	pCi/m3	3.60E-02	2.81E-03	1.00E-02	
Air Particulate	7/20/2018 21:43	BETA	pCi/m3	4.88E-02	2.85E-03	1.00E-02	
Air Particulate	7/27/2018 21:09	BETA	pCi/m3	5.89E-02	2.77E-03	1.00E-02	
Air Particulate	8/3/2018 22:24	BETA	pCi/m3	5.80E-02	2.80E-03	1.00E-02	
Air Particulate	8/10/2018 22:30	BETA	pCi/m3	2.99E-02	2.91E-03	1.00E-02	
Air Particulate	5/11/2018 23:17	Actinium-228	pCi/m3	-4.47E-04	3.02E-03		U
Air Particulate	5/11/2018 23:17	Antimony-124	pCi/m3	-9.51E-04	6.03E-03		U
Air Particulate	5/11/2018 23:17	Antimony-125	pCi/m3	9.80E-04	1.98E-03		U
Air Particulate	5/11/2018 23:17	Barium-140	pCi/m3	2.08E-01	8.95E-01		U
Air Particulate	5/11/2018 23:17	Beryllium-7	pCi/m3	2.13E-01	2.17E-02		
Air Particulate	5/11/2018 23:17	Cerium-141	pCi/m3	-1.07E-03	6.99E-03		U
Air Particulate	5/11/2018 23:17	Cerium-144	pCi/m3	-1.53E-03	3.03E-03		U
Air Particulate	5/11/2018 23:17	Cesium-134	pCi/m3	3.69E-04	9.40E-04	5.00E-02	U
Air Particulate	5/11/2018 23:17	Cesium-137	pCi/m3	6.07E-04	4.10E-04	6.00E-02	UI
Air Particulate	5/11/2018 23:17	Cobalt-57	pCi/m3	6.48E-05	3.90E-04		U
Air Particulate	5/11/2018 23:17	Cobalt-58	pCi/m3	-5.82E-04	1.77E-03		U
Air Particulate	5/11/2018 23:17	Cobalt-60	pCi/m3	1.65E-04	7.04E-04		U
Air Particulate	5/11/2018 23:17	Iodine-131	pCi/m3	2.28E+00	0.00E+00		UI
Air Particulate	5/11/2018 23:17	Iron-59	pCi/m3	-1.25E-03	4.78E-03		U
Air Particulate	5/11/2018 23:17	Lanthanum-140	pCi/m3	1.39E-01	4.41E-01		U
Air Particulate	5/11/2018 23:17	Manganese-54	pCi/m3	-2.59E-04	5.50E-04		U
Air Particulate	5/11/2018 23:17	Niobium-95	pCi/m3	1.57E-04	1.95E-03		U
Air Particulate	5/11/2018 23:17	Potassium-40	pCi/m3	1.04E-02	5.84E-03		UI
Air Particulate	5/11/2018 23:17	Ruthenium-103	pCi/m3	-1.03E-03	2.81E-03		U
Air Particulate	5/11/2018 23:17	Ruthenium-106	pCi/m3	1.15E-03	7.77E-03		U
Air Particulate	5/11/2018 23:17	Selenium-75	pCi/m3	-2.24E-04	1.40E-03		U
Air Particulate	5/11/2018 23:17	Silver-108m	pCi/m3	-8.03E-05	5.27E-04		U
Air Particulate	5/11/2018 23:17	Silver-110m	pCi/m3	-3.35E-04	1.10E-03		U
Air Particulate	5/11/2018 23:17	Thorium-228	pCi/m3	9.27E-04	1.11E-03		U
Air Particulate	5/11/2018 23:17	Zinc-65	pCi/m3	-3.28E-04	1.58E-03		U
Air Particulate	5/11/2018 23:17	Zirconium-95	pCi/m3	-3.24E-04	3.56E-03		U
Air Particulate	8/17/2018 21:13	BETA	pCi/m3	5.37E-02	3.64E-03	1.00E-02	

Air Particulate	8/24/2018 21:47	BETA	pCi/m3	5.48E-02	2.81E-03	1.00E-02	
Air Particulate	8/31/2018 21:30	BETA	pCi/m3	2.55E-02	2.89E-03	1.00E-02	
Air Particulate	9/7/2018 21:41	BETA	pCi/m3	2.67E-02	2.85E-03	1.00E-02	
Air Particulate	9/14/2018 21:43	BETA	pCi/m3	2.98E-02	3.68E-03	1.00E-02	
Air Particulate	9/21/2018 21:26	BETA	pCi/m3	2.93E-02	2.87E-03	1.00E-02	
Air Particulate	9/28/2018 21:52	BETA	pCi/m3	3.77E-02	3.00E-03	1.00E-02	
Air Particulate	10/5/2018 21:51	BETA	pCi/m3	3.32E-02	2.94E-03	1.00E-02	
Air Particulate	10/12/2018 21:27	BETA	pCi/m3	3.57E-02	2.96E-03	1.00E-02	
Air Particulate	10/19/2018 21:11	BETA	pCi/m3	5.15E-02	3.02E-03	1.00E-02	
Air Particulate	10/26/2018 22:00	BETA	pCi/m3	6.03E-02	3.19E-03	1.00E-02	
Air Particulate	11/2/2018 21:46	BETA	pCi/m3	5.18E-02	3.08E-03	1.00E-02	
Air Particulate	11/9/2018 21:01	BETA	pCi/m3	5.87E-02	3.21E-03	1.00E-02	
Air Particulate	8/10/2018 23:10	Actinium-228	pCi/m3	1.12E-03	2.98E-03		U
Air Particulate	8/10/2018 23:10	Antimony-124	pCi/m3	1.40E-03	5.30E-03		U
Air Particulate	8/10/2018 23:10	Antimony-125	pCi/m3	1.68E-05	1.12E-03		U
Air Particulate	8/10/2018 23:10	Barium-140	pCi/m3	1.30E-01	9.35E-01		U
Air Particulate	8/10/2018 23:10	Beryllium-7	pCi/m3	1.36E-01	1.51E-02		
Air Particulate	8/10/2018 23:10	Cerium-141	pCi/m3	4.06E-03	4.86E-03		U
Air Particulate	8/10/2018 23:10	Cerium-144	pCi/m3	-7.02E-04	2.52E-03		U
Air Particulate	8/10/2018 23:10	Cesium-134	pCi/m3	2.34E-04	6.19E-04	5.00E-02	U
Air Particulate	8/10/2018 23:10	Cesium-137	pCi/m3	-1.83E-05	4.91E-04	6.00E-02	U
Air Particulate	8/10/2018 23:10	Cobalt-57	pCi/m3	-1.04E-04	3.12E-04		U
Air Particulate	8/10/2018 23:10	Cobalt-58	pCi/m3	1.92E-04	1.39E-03		U
Air Particulate	8/10/2018 23:10	Cobalt-60	pCi/m3	2.59E-04	8.12E-04		U
Air Particulate	8/10/2018 23:10	Iodine-131	pCi/m3	-4.28E+00	0.00E+00		U
Air Particulate	8/10/2018 23:10	Iron-59	pCi/m3	-1.97E-03	4.04E-03		U
Air Particulate	8/10/2018 23:10	Lanthanum-140	pCi/m3	6.04E-02	3.58E-01		U
Air Particulate	8/10/2018 23:10	Manganese-54	pCi/m3	-1.54E-04	6.80E-04		U
Air Particulate	8/10/2018 23:10	Niobium-95	pCi/m3	1.36E-04	1.51E-03		U
Air Particulate	8/10/2018 23:10	Potassium-40	pCi/m3	1.25E-02	5.78E-03		
Air Particulate	8/10/2018 23:10	Ruthenium-103	pCi/m3	-4.23E-04	2.81E-03		U
Air Particulate	8/10/2018 23:10	Ruthenium-106	pCi/m3	-4.44E-04	5.10E-03		U
Air Particulate	8/10/2018 23:10	Selenium-75	pCi/m3	-9.77E-05	9.41E-04		U
Air Particulate	8/10/2018 23:10	Silver-108m	pCi/m3	5.87E-06	4.11E-04		U
Air Particulate	8/10/2018 23:10	Silver-110m	pCi/m3	-3.32E-04	7.40E-04		U
Air Particulate	8/10/2018 23:10	Thorium-228	pCi/m3	2.14E-04	7.69E-04		U
Air Particulate	8/10/2018 23:10	Zinc-65	pCi/m3	1.61E-04	1.53E-03		U
Air Particulate	8/10/2018 23:10	Zirconium-95	pCi/m3	4.09E-04	3.30E-03		U
Air Particulate	11/16/2018 21:37	BETA	pCi/m3	5.61E-02	3.18E-03	1.00E-02	
Air Particulate	11/23/2018 23:02	BETA	pCi/m3	5.93E-02	3.56E-03	1.00E-02	
Air Particulate	11/30/2018 22:49	BETA	pCi/m3	3.69E-02	2.90E-03	1.00E-02	
Air Particulate	12/7/2018 22:00	BETA	pCi/m3	6.28E-02	3.30E-03	1.00E-02	
Air Particulate	12/14/2018 23:04	BETA	pCi/m3	4.72E-02	3.28E-03	1.00E-02	
Air Particulate	12/21/2018 23:20	BETA	pCi/m3	3.35E-02	2.98E-03	1.00E-02	

Air Particulate	12/28/2018 22:02	BETA	pCi/m3	5.53E-02	3.56E-03	1.00E-02	
Air Particulate	11/9/2018 22:23	Actinium-228	pCi/m3	-2.62E-04	2.64E-03		U
Air Particulate	11/9/2018 22:23	Antimony-124	pCi/m3	-1.79E-04	1.62E-03		U
Air Particulate	11/9/2018 22:23	Antimony-125	pCi/m3	-6.47E-05	1.25E-03		U
Air Particulate	11/9/2018 22:23	Barium-140	pCi/m3	8.57E-04	1.02E-02		U
Air Particulate	11/9/2018 22:23	Beryllium-7	pCi/m3	9.52E-02	5.46E-03		
Air Particulate	11/9/2018 22:23	Cerium-141	pCi/m3	-5.14E-04	7.82E-04		U
Air Particulate	11/9/2018 22:23	Cerium-144	pCi/m3	-8.06E-04	1.94E-03		U
Air Particulate	11/9/2018 22:23	Cesium-134	pCi/m3	1.83E-04	5.89E-04	5.00E-02	U
Air Particulate	11/9/2018 22:23	Cesium-137	pCi/m3	2.17E-04	6.26E-04	6.00E-02	U
Air Particulate	11/9/2018 22:23	Cobalt-57	pCi/m3	4.56E-05	2.61E-04		U
Air Particulate	11/9/2018 22:23	Cobalt-58	pCi/m3	-1.41E-04	5.72E-04		U
Air Particulate	11/9/2018 22:23	Cobalt-60	pCi/m3	-7.56E-05	4.47E-04		U
Air Particulate	11/9/2018 22:23	Iodine-131	pCi/m3	-8.64E-04	7.36E-03		U
Air Particulate	11/9/2018 22:23	Iron-59	pCi/m3	-1.36E-04	1.38E-03		U
Air Particulate	11/9/2018 22:23	Lanthanum-140	pCi/m3	5.66E-04	4.88E-03		U
Air Particulate	11/9/2018 22:23	Manganese-54	pCi/m3	-1.49E-04	4.32E-04		U
Air Particulate	11/9/2018 22:23	Niobium-95	pCi/m3	5.72E-04	4.77E-04		UI
Air Particulate	11/9/2018 22:23	Potassium-40	pCi/m3	1.58E-02	6.55E-03		
Air Particulate	11/9/2018 22:23	Ruthenium-103	pCi/m3	-2.63E-05	7.25E-04		U
Air Particulate	11/9/2018 22:23	Ruthenium-106	pCi/m3	-2.99E-04	5.06E-03		U
Air Particulate	11/9/2018 22:23	Selenium-75	pCi/m3	3.15E-04	6.70E-04		U
Air Particulate	11/9/2018 22:23	Silver-108m	pCi/m3	4.07E-05	3.73E-04		U
Air Particulate	11/9/2018 22:23	Silver-110m	pCi/m3	-2.51E-04	5.82E-04		U
Air Particulate	11/9/2018 22:23	Thorium-228	pCi/m3	3.11E-04	9.28E-04		U
Air Particulate	11/9/2018 22:23	Zinc-65	pCi/m3	5.12E-04	1.48E-03		U
Air Particulate	11/9/2018 22:23	Zirconium-95	pCi/m3	-6.28E-05	1.06E-03		U

Notes:

1. LLDs are a-priori values.
2. MDCs are calculated a-posteriori values.
3. Gamma spectroscopy analysis results are calculated from a measurement using only one gamma energy
4. Air sample volumes are received in units of ft3. GEL converts the units and reports them as m3.

QUALIFIERS:

U Target isotope was analyzed for but not detected above the MDC or LLD.
UI Uncertain identification for gamma spectroscopy.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager f
M Reported result is less than the LLD and greater than the MDC.

DL DL MDC > LLD.

Sample Data For: "A-2"

Matrix	Collect Date	Parmname	Units	Result	MDC	LLD	Qualifier
Air Particulate	1/5/2018 23:28	BETA	pCi/m3	6.23E-02	2.38E-03	1.00E-02	
Air Particulate	1/12/2018 22:20	BETA	pCi/m3	4.88E-02	2.31E-03	1.00E-02	
Air Particulate	1/19/2018 10:16	BETA	pCi/m3	4.79E-02	2.58E-03	1.00E-02	
Air Particulate	1/26/2018 11:45	BETA	pCi/m3	3.70E-02	1.91E-03	1.00E-02	
Air Particulate	2/2/2018 23:39	BETA	pCi/m3	4.91E-02	2.52E-03	1.00E-02	
Air Particulate	2/9/2018 22:55	BETA	pCi/m3	6.56E-02	2.37E-03	1.00E-02	
Air Particulate	2/16/2018 22:29	BETA	pCi/m3	4.44E-02	2.57E-03	1.00E-02	
Air Particulate	2/23/2018 22:40	BETA	pCi/m3	2.48E-02	2.64E-03	1.00E-02	
Air Particulate	3/3/2018 0:30	BETA	pCi/m3	4.02E-02	2.94E-03	1.00E-02	
Air Particulate	3/10/2018 0:53	BETA	pCi/m3	3.95E-02	2.34E-03	1.00E-02	
Air Particulate	3/16/2018 23:37	BETA	pCi/m3	3.72E-02	2.36E-03	1.00E-02	
Air Particulate	3/23/2018 22:18	BETA	pCi/m3	4.13E-02	2.90E-03	1.00E-02	
Air Particulate	3/30/2018 22:00	BETA	pCi/m3	4.56E-02	4.06E-03	1.00E-02	
Air Particulate	4/6/2018 21:51	BETA	pCi/m3	4.12E-02	3.02E-03	1.00E-02	
Air Particulate	4/13/2018 21:14	BETA	pCi/m3	4.76E-02	3.81E-03	1.00E-02	
Air Particulate	4/20/2018 21:40	BETA	pCi/m3	3.21E-02	2.98E-03	1.00E-02	
Air Particulate	4/27/2018 21:48	BETA	pCi/m3	4.80E-02	3.65E-03	1.00E-02	
Air Particulate	5/4/2018 22:12	BETA	pCi/m3	4.19E-02	2.78E-03	1.00E-02	
Air Particulate	5/11/2018 22:54	BETA	pCi/m3	5.08E-02	3.02E-03	1.00E-02	
Air Particulate	2/9/2018 22:48	Actinium-228	pCi/m3	-8.82E-04	2.07E-03		U
Air Particulate	2/9/2018 22:48	Antimony-124	pCi/m3	1.93E-03	5.06E-03		U
Air Particulate	2/9/2018 22:48	Antimony-125	pCi/m3	1.36E-04	1.19E-03		U
Air Particulate	2/9/2018 22:48	Barium-140	pCi/m3	2.51E-02	5.23E-01		U
Air Particulate	2/9/2018 22:48	Beryllium-7	pCi/m3	1.44E-01	1.45E-02		
Air Particulate	2/9/2018 22:48	Cerium-141	pCi/m3	1.85E-04	5.38E-03		U
Air Particulate	2/9/2018 22:48	Cerium-144	pCi/m3	-9.53E-04	2.81E-03		U
Air Particulate	2/9/2018 22:48	Cesium-134	pCi/m3	1.95E-04	7.26E-04	5.00E-02	U
Air Particulate	2/9/2018 22:48	Cesium-137	pCi/m3	-4.60E-06	4.25E-04	6.00E-02	U
Air Particulate	2/9/2018 22:48	Cobalt-57	pCi/m3	-6.28E-05	3.56E-04		U
Air Particulate	2/9/2018 22:48	Cobalt-58	pCi/m3	-1.92E-04	9.49E-04		U
Air Particulate	2/9/2018 22:48	Cobalt-60	pCi/m3	-1.84E-04	5.18E-04		U
Air Particulate	2/9/2018 22:48	Iodine-131	pCi/m3	6.97E-01	0.00E+00		UI
Air Particulate	2/9/2018 22:48	Iron-59	pCi/m3	-7.48E-04	3.75E-03		U
Air Particulate	2/9/2018 22:48	Lanthanum-140	pCi/m3	-9.37E-03	1.78E-01		U
Air Particulate	2/9/2018 22:48	Manganese-54	pCi/m3	-8.33E-05	6.27E-04		U
Air Particulate	2/9/2018 22:48	Niobium-95	pCi/m3	-2.28E-04	1.44E-03		U
Air Particulate	2/9/2018 22:48	Potassium-40	pCi/m3	4.02E-03	8.96E-03		U
Air Particulate	2/9/2018 22:48	Ruthenium-103	pCi/m3	-7.10E-04	1.99E-03		U
Air Particulate	2/9/2018 22:48	Ruthenium-106	pCi/m3	5.10E-05	4.82E-03		U

Air Particulate	2/9/2018 22:48	Selenium-75	pCi/m3	-4.27E-04	7.45E-04		U
Air Particulate	2/9/2018 22:48	Silver-108m	pCi/m3	-2.37E-06	3.78E-04		U
Air Particulate	2/9/2018 22:48	Silver-110m	pCi/m3	-2.24E-04	8.38E-04		U
Air Particulate	2/9/2018 22:48	Thorium-228	pCi/m3	-4.16E-05	9.07E-04		U
Air Particulate	2/9/2018 22:48	Zinc-65	pCi/m3	-3.80E-04	1.34E-03		U
Air Particulate	2/9/2018 22:48	Zirconium-95	pCi/m3	1.59E-03	2.80E-03		U
Air Particulate	5/18/2018 22:24	BETA	pCi/m3	3.87E-02	2.90E-03	1.00E-02	
Air Particulate	5/25/2018 22:57	BETA	pCi/m3	3.26E-02	2.82E-03	1.00E-02	
Air Particulate	6/1/2018 22:56	BETA	pCi/m3	3.19E-02	2.77E-03	1.00E-02	
Air Particulate	6/8/2018 22:14	BETA	pCi/m3	5.16E-02	3.61E-03	1.00E-02	
Air Particulate	6/15/2018 22:26	BETA	pCi/m3	3.21E-02	3.63E-03	1.00E-02	
Air Particulate	6/22/2018 23:51	BETA	pCi/m3	2.45E-02	2.79E-03	1.00E-02	
Air Particulate	6/29/2018 22:33	BETA	pCi/m3	4.30E-02	2.78E-03	1.00E-02	
Air Particulate	7/6/2018 21:25	BETA	pCi/m3	3.86E-02	3.63E-03	1.00E-02	
Air Particulate	7/13/2018 22:52	BETA	pCi/m3	3.66E-02	2.93E-03	1.00E-02	
Air Particulate	7/20/2018 22:26	BETA	pCi/m3	4.86E-02	2.78E-03	1.00E-02	
Air Particulate	7/27/2018 22:09	BETA	pCi/m3	5.28E-02	2.89E-03	1.00E-02	
Air Particulate	8/3/2018 22:16	BETA	pCi/m3	5.38E-02	3.56E-03	1.00E-02	
Air Particulate	8/10/2018 22:06	BETA	pCi/m3	3.14E-02	3.68E-03	1.00E-02	
Air Particulate	5/11/2018 23:27	Actinium-228	pCi/m3	1.68E-03	7.13E-03		U
Air Particulate	5/11/2018 23:27	Antimony-124	pCi/m3	-4.48E-03	8.32E-03		U
Air Particulate	5/11/2018 23:27	Antimony-125	pCi/m3	7.32E-04	3.08E-03		U
Air Particulate	5/11/2018 23:27	Barium-140	pCi/m3	-8.69E-02	1.51E+00		U
Air Particulate	5/11/2018 23:27	Beryllium-7	pCi/m3	1.55E-01	3.79E-02		
Air Particulate	5/11/2018 23:27	Cerium-141	pCi/m3	2.70E-03	1.13E-02		U
Air Particulate	5/11/2018 23:27	Cerium-144	pCi/m3	1.46E-04	4.72E-03		U
Air Particulate	5/11/2018 23:27	Cesium-134	pCi/m3	3.29E-04	1.68E-03	5.00E-02	U
Air Particulate	5/11/2018 23:27	Cesium-137	pCi/m3	-2.32E-06	1.20E-03	6.00E-02	U
Air Particulate	5/11/2018 23:27	Cobalt-57	pCi/m3	-1.55E-04	6.54E-04		U
Air Particulate	5/11/2018 23:27	Cobalt-58	pCi/m3	1.16E-03	3.76E-03		U
Air Particulate	5/11/2018 23:27	Cobalt-60	pCi/m3	4.81E-04	1.32E-03		U
Air Particulate	5/11/2018 23:27	Iodine-131	pCi/m3	4.01E+00	0.00E+00		UI
Air Particulate	5/11/2018 23:27	Iron-59	pCi/m3	-5.98E-04	9.70E-03		U
Air Particulate	5/11/2018 23:27	Lanthanum-140	pCi/m3	1.55E-01	5.50E-01		U
Air Particulate	5/11/2018 23:27	Manganese-54	pCi/m3	-1.44E-03	1.24E-03		U
Air Particulate	5/11/2018 23:27	Niobium-95	pCi/m3	2.02E-03	4.60E-03		U
Air Particulate	5/11/2018 23:27	Potassium-40	pCi/m3	2.44E-03	2.03E-02		U
Air Particulate	5/11/2018 23:27	Ruthenium-103	pCi/m3	-7.72E-04	7.10E-03		U
Air Particulate	5/11/2018 23:27	Ruthenium-106	pCi/m3	-1.03E-03	1.25E-02		U
Air Particulate	5/11/2018 23:27	Selenium-75	pCi/m3	7.67E-05	1.80E-03		U
Air Particulate	5/11/2018 23:27	Silver-108m	pCi/m3	-7.04E-05	9.31E-04		U
Air Particulate	5/11/2018 23:27	Silver-110m	pCi/m3	-2.10E-04	2.70E-03		U
Air Particulate	5/11/2018 23:27	Thorium-228	pCi/m3	5.89E-04	2.19E-03		U
Air Particulate	5/11/2018 23:27	Zinc-65	pCi/m3	1.55E-03	4.23E-03		U

Air Particulate	5/11/2018 23:27	Zirconium-95	pCi/m3	-9.95E-04	7.06E-03		U
Air Particulate	8/17/2018 21:52	BETA	pCi/m3	4.10E-02	2.87E-03	1.00E-02	
Air Particulate	8/24/2018 22:49	BETA	pCi/m3	4.21E-02	2.87E-03	1.00E-02	
Air Particulate	8/31/2018 22:27	BETA	pCi/m3	2.12E-02	2.89E-03	1.00E-02	
Air Particulate	9/7/2018 22:14	BETA	pCi/m3	2.41E-02	2.83E-03	1.00E-02	
Air Particulate	9/14/2018 22:13	BETA	pCi/m3	2.61E-02	2.96E-03	1.00E-02	
Air Particulate	9/21/2018 22:05	BETA	pCi/m3	2.35E-02	3.79E-03	1.00E-02	
Air Particulate	9/28/2018 22:32	BETA	pCi/m3	3.22E-02	2.97E-03	1.00E-02	
Air Particulate	10/5/2018 22:21	BETA	pCi/m3	3.13E-02	2.96E-03	1.00E-02	
Air Particulate	10/12/2018 22:00	BETA	pCi/m3	3.32E-02	3.74E-03	1.00E-02	
Air Particulate	10/19/2018 21:42	BETA	pCi/m3	4.42E-02	2.96E-03	1.00E-02	
Air Particulate	10/26/2018 22:50	BETA	pCi/m3	5.82E-02	3.29E-03	1.00E-02	
Air Particulate	11/2/2018 22:36	BETA	pCi/m3	5.26E-02	3.21E-03	1.00E-02	
Air Particulate	11/9/2018 21:30	BETA	pCi/m3	4.64E-02	3.30E-03	1.00E-02	
Air Particulate	8/11/2018 0:08	Actinium-228	pCi/m3	2.33E-04	2.90E-03		U
Air Particulate	8/11/2018 0:08	Antimony-124	pCi/m3	1.79E-03	6.20E-03		U
Air Particulate	8/11/2018 0:08	Antimony-125	pCi/m3	-2.97E-04	1.34E-03		U
Air Particulate	8/11/2018 0:08	Barium-140	pCi/m3	1.92E-01	1.04E+00		U
Air Particulate	8/11/2018 0:08	Beryllium-7	pCi/m3	1.48E-01	1.48E-02		
Air Particulate	8/11/2018 0:08	Cerium-141	pCi/m3	-4.84E-03	6.70E-03		U
Air Particulate	8/11/2018 0:08	Cerium-144	pCi/m3	-5.67E-04	2.69E-03		U
Air Particulate	8/11/2018 0:08	Cesium-134	pCi/m3	-1.55E-04	4.61E-04	5.00E-02	U
Air Particulate	8/11/2018 0:08	Cesium-137	pCi/m3	1.49E-04	6.06E-04	6.00E-02	U
Air Particulate	8/11/2018 0:08	Cobalt-57	pCi/m3	-2.23E-04	3.01E-04		U
Air Particulate	8/11/2018 0:08	Cobalt-58	pCi/m3	-4.33E-06	1.39E-03		U
Air Particulate	8/11/2018 0:08	Cobalt-60	pCi/m3	-2.19E-05	5.29E-04		U
Air Particulate	8/11/2018 0:08	Iodine-131	pCi/m3	-5.13E+00	0.00E+00		U
Air Particulate	8/11/2018 0:08	Iron-59	pCi/m3	-2.82E-03	5.94E-03		U
Air Particulate	8/11/2018 0:08	Lanthanum-140	pCi/m3	-1.67E-01	2.98E-01		U
Air Particulate	8/11/2018 0:08	Manganese-54	pCi/m3	-3.81E-05	7.60E-04		U
Air Particulate	8/11/2018 0:08	Niobium-95	pCi/m3	2.03E-03	1.66E-03		UI
Air Particulate	8/11/2018 0:08	Potassium-40	pCi/m3	9.48E-03	1.36E-02		U
Air Particulate	8/11/2018 0:08	Ruthenium-103	pCi/m3	1.58E-03	3.36E-03		U
Air Particulate	8/11/2018 0:08	Ruthenium-106	pCi/m3	-1.08E-03	5.53E-03		U
Air Particulate	8/11/2018 0:08	Selenium-75	pCi/m3	-1.24E-04	8.93E-04		U
Air Particulate	8/11/2018 0:08	Silver-108m	pCi/m3	1.57E-04	4.51E-04		U
Air Particulate	8/11/2018 0:08	Silver-110m	pCi/m3	1.53E-04	1.07E-03		U
Air Particulate	8/11/2018 0:08	Thorium-228	pCi/m3	6.03E-05	7.58E-04		U
Air Particulate	8/11/2018 0:08	Zinc-65	pCi/m3	-7.95E-04	1.50E-03		U
Air Particulate	8/11/2018 0:08	Zirconium-95	pCi/m3	1.66E-03	1.79E-03		U
Air Particulate	11/16/2018 22:13	BETA	pCi/m3	4.92E-03	3.27E-03	1.00E-02	M
Air Particulate	11/23/2018 23:58	BETA	pCi/m3	4.18E-02	3.06E-03	1.00E-02	
Air Particulate	11/30/2018 23:44	BETA	pCi/m3	3.25E-02	3.62E-03	1.00E-02	
Air Particulate	12/7/2018 22:59	BETA	pCi/m3	6.23E-02	3.51E-03	1.00E-02	

Air Particulate	12/15/2018 0:03	BETA	pCi/m3	4.36E-02	2.93E-03	1.00E-02	
Air Particulate	12/21/2018 23:58	BETA	pCi/m3	3.55E-02	3.33E-03	1.00E-02	
Air Particulate	12/28/2018 22:36	BETA	pCi/m3	4.90E-02	3.34E-03	1.00E-02	
Air Particulate	11/16/2018 22:13	BETA	pCi/m3	5.96E-02	3.19E-03	1.00E-02	
Air Particulate	11/9/2018 23:08	Actinium-228	pCi/m3	-7.49E-04	2.05E-03		U
Air Particulate	11/9/2018 23:08	Antimony-124	pCi/m3	-2.49E-04	1.33E-03		U
Air Particulate	11/9/2018 23:08	Antimony-125	pCi/m3	-3.76E-04	8.13E-04		U
Air Particulate	11/9/2018 23:08	Barium-140	pCi/m3	-8.13E-04	7.12E-03		U
Air Particulate	11/9/2018 23:08	Beryllium-7	pCi/m3	8.50E-02	4.32E-03		
Air Particulate	11/9/2018 23:08	Cerium-141	pCi/m3	-3.71E-04	6.97E-04		U
Air Particulate	11/9/2018 23:08	Cerium-144	pCi/m3	-1.16E-04	1.70E-03		U
Air Particulate	11/9/2018 23:08	Cesium-134	pCi/m3	9.24E-05	4.46E-04	5.00E-02	U
Air Particulate	11/9/2018 23:08	Cesium-137	pCi/m3	3.95E-04	3.64E-04	6.00E-02	UI
Air Particulate	11/9/2018 23:08	Cobalt-57	pCi/m3	-4.07E-05	2.26E-04		U
Air Particulate	11/9/2018 23:08	Cobalt-58	pCi/m3	-1.32E-05	5.11E-04		U
Air Particulate	11/9/2018 23:08	Cobalt-60	pCi/m3	1.68E-04	4.99E-04		U
Air Particulate	11/9/2018 23:08	Iodine-131	pCi/m3	-1.63E-03	5.11E-03		U
Air Particulate	11/9/2018 23:08	Iron-59	pCi/m3	-1.01E-04	8.67E-04		U
Air Particulate	11/9/2018 23:08	Lanthanum-140	pCi/m3	1.62E-04	2.35E-03		U
Air Particulate	11/9/2018 23:08	Manganese-54	pCi/m3	-1.71E-04	4.15E-04		U
Air Particulate	11/9/2018 23:08	Niobium-95	pCi/m3	-2.17E-04	5.09E-04		U
Air Particulate	11/9/2018 23:08	Potassium-40	pCi/m3	7.93E-03	5.47E-03		UI
Air Particulate	11/9/2018 23:08	Ruthenium-103	pCi/m3	-2.09E-04	5.63E-04		U
Air Particulate	11/9/2018 23:08	Ruthenium-106	pCi/m3	-1.25E-05	2.83E-03		U
Air Particulate	11/9/2018 23:08	Selenium-75	pCi/m3	1.55E-04	5.20E-04		U
Air Particulate	11/9/2018 23:08	Silver-108m	pCi/m3	-1.72E-04	2.78E-04		U
Air Particulate	11/9/2018 23:08	Silver-110m	pCi/m3	1.58E-04	6.21E-04		U
Air Particulate	11/9/2018 23:08	Thorium-228	pCi/m3	-2.43E-04	6.74E-04		U
Air Particulate	11/9/2018 23:08	Zinc-65	pCi/m3	8.08E-06	9.92E-04		U
Air Particulate	11/9/2018 23:08	Zirconium-95	pCi/m3	-5.64E-04	8.40E-04		U

Notes:

1. LLDs are a-priori values.
2. MDCs are calculated a-posteriori values.
3. Gamma spectroscopy analysis results are calculated from a measurement using only one gamma energy
4. Air sample volumes are received in units of ft3. GEL converts the units and reports them as m3.

QUALIFIERS:

U Target isotope was analyzed for but not detected above the MDC or LLD.

UI Uncertain identification for gamma spectroscopy.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager f
M Reported result is less than the LLD and greater than the MDC.
DL DL MDC > LLD.

Sample Data For: "A-3"

Matrix	Collect Date	Parmname	Units	Result	MDC	LLD	Qualifier
Air Particulate	1/5/2018 22:48	BETA	pCi/m3	5.31E-02	2.38E-03	1.00E-02	
Air Particulate	1/12/2018 21:36	BETA	pCi/m3	4.22E-02	2.31E-03	1.00E-02	
Air Particulate	1/19/2018 9:29	BETA	pCi/m3	3.92E-02	2.58E-03	1.00E-02	
Air Particulate	1/26/2018 9:44	BETA	pCi/m3	3.84E-02	1.94E-03	1.00E-02	
Air Particulate	2/2/2018 21:34	BETA	pCi/m3	3.70E-02	2.73E-03	1.00E-02	
Air Particulate	2/9/2018 22:05	BETA	pCi/m3	4.43E-02	2.59E-03	1.00E-02	
Air Particulate	2/16/2018 21:39	BETA	pCi/m3	4.11E-02	2.75E-03	1.00E-02	
Air Particulate	2/23/2018 21:09	BETA	pCi/m3	2.22E-02	2.32E-03	1.00E-02	
Air Particulate	3/2/2018 23:03	BETA	pCi/m3	2.89E-02	2.56E-03	1.00E-02	
Air Particulate	3/9/2018 23:29	BETA	pCi/m3	3.50E-02	2.63E-03	1.00E-02	
Air Particulate	3/16/2018 22:18	BETA	pCi/m3	3.83E-02	2.34E-03	1.00E-02	
Air Particulate	3/23/2018 22:32	BETA	pCi/m3	3.75E-02	2.93E-03	1.00E-02	
Air Particulate	3/30/2018 22:13	BETA	pCi/m3	2.95E-02	3.78E-03	1.00E-02	
Air Particulate	4/6/2018 21:08	BETA	pCi/m3	3.50E-02	3.17E-03	1.00E-02	
Air Particulate	4/13/2018 20:27	BETA	pCi/m3	2.99E-02	3.80E-03	1.00E-02	
Air Particulate	4/20/2018 20:39	BETA	pCi/m3	2.78E-02	2.93E-03	1.00E-02	
Air Particulate	4/27/2018 20:49	BETA	pCi/m3	3.95E-02	2.88E-03	1.00E-02	
Air Particulate	5/4/2018 21:25	BETA	pCi/m3	4.03E-02	3.11E-03	1.00E-02	
Air Particulate	5/11/2018 21:49	BETA	pCi/m3	3.86E-02	2.90E-03	1.00E-02	
Air Particulate	2/9/2018 22:34	Actinium-228	pCi/m3	6.89E-04	2.34E-03		U
Air Particulate	2/9/2018 22:34	Antimony-124	pCi/m3	-1.13E-03	6.42E-03		U
Air Particulate	2/9/2018 22:34	Antimony-125	pCi/m3	5.25E-04	1.39E-03		U
Air Particulate	2/9/2018 22:34	Barium-140	pCi/m3	-1.82E-01	4.46E-01		U
Air Particulate	2/9/2018 22:34	Beryllium-7	pCi/m3	1.39E-01	1.64E-02		
Air Particulate	2/9/2018 22:34	Cerium-141	pCi/m3	5.69E-04	3.70E-03		U
Air Particulate	2/9/2018 22:34	Cerium-144	pCi/m3	9.69E-05	2.47E-03		U
Air Particulate	2/9/2018 22:34	Cesium-134	pCi/m3	1.41E-05	7.34E-04	5.00E-02	U
Air Particulate	2/9/2018 22:34	Cesium-137	pCi/m3	-1.15E-04	4.76E-04	6.00E-02	U
Air Particulate	2/9/2018 22:34	Cobalt-57	pCi/m3	-2.48E-05	3.28E-04		U
Air Particulate	2/9/2018 22:34	Cobalt-58	pCi/m3	-3.55E-04	1.06E-03		U
Air Particulate	2/9/2018 22:34	Cobalt-60	pCi/m3	1.96E-04	6.23E-04		U
Air Particulate	2/9/2018 22:34	Iodine-131	pCi/m3	-9.86E-02	0.00E+00		U
Air Particulate	2/9/2018 22:34	Iron-59	pCi/m3	-2.49E-03	3.62E-03		U
Air Particulate	2/9/2018 22:34	Lanthanum-140	pCi/m3	-2.93E-02	2.20E-01		U
Air Particulate	2/9/2018 22:34	Manganese-54	pCi/m3	-3.57E-04	4.27E-04		U
Air Particulate	2/9/2018 22:34	Niobium-95	pCi/m3	-1.37E-04	1.35E-03		U

Air Particulate	2/9/2018 22:34	Potassium-40	pCi/m3	3.25E-03	5.75E-03		U
Air Particulate	2/9/2018 22:34	Ruthenium-103	pCi/m3	-1.11E-03	1.29E-03		U
Air Particulate	2/9/2018 22:34	Ruthenium-106	pCi/m3	2.34E-04	6.05E-03		U
Air Particulate	2/9/2018 22:34	Selenium-75	pCi/m3	4.85E-04	9.71E-04		U
Air Particulate	2/9/2018 22:34	Silver-108m	pCi/m3	2.70E-05	3.60E-04		U
Air Particulate	2/9/2018 22:34	Silver-110m	pCi/m3	-2.83E-04	7.56E-04		U
Air Particulate	2/9/2018 22:34	Thorium-228	pCi/m3	-1.21E-04	7.96E-04		U
Air Particulate	2/9/2018 22:34	Zinc-65	pCi/m3	2.53E-04	1.70E-03		U
Air Particulate	2/9/2018 22:34	Zirconium-95	pCi/m3	3.57E-04	3.26E-03		U
Air Particulate	5/18/2018 21:09	BETA	pCi/m3	7.56E-02	1.39E-02	1.00E-02	DL
Air Particulate	5/25/2018 21:20	BETA	pCi/m3	2.83E-02	3.08E-03	1.00E-02	
Air Particulate	6/1/2018 21:25	BETA	pCi/m3	3.02E-02	2.93E-03	1.00E-02	
Air Particulate	6/8/2018 21:14	BETA	pCi/m3	3.41E-02	2.84E-03	1.00E-02	
Air Particulate	6/15/2018 21:20	BETA	pCi/m3	1.91E-02	2.97E-03	1.00E-02	
Air Particulate	6/22/2018 22:31	BETA	pCi/m3	3.30E-02	3.58E-03	1.00E-02	
Air Particulate	6/29/2018 21:08	BETA	pCi/m3	3.38E-02	2.86E-03	1.00E-02	
Air Particulate	7/6/2018 19:48	BETA	pCi/m3	2.96E-02	2.77E-03	1.00E-02	
Air Particulate	7/13/2018 21:25	BETA	pCi/m3	3.49E-02	2.86E-03	1.00E-02	
Air Particulate	7/20/2018 21:23	BETA	pCi/m3	6.73E-02	3.50E-03	1.00E-02	
Air Particulate	7/27/2018 20:51	BETA	pCi/m3	6.53E-02	2.84E-03	1.00E-02	
Air Particulate	8/3/2018 21:09	BETA	pCi/m3	4.48E-02	2.79E-03	1.00E-02	
Air Particulate	8/10/2018 21:17	BETA	pCi/m3	3.49E-02	2.83E-03	1.00E-02	
Air Particulate	5/11/2018 23:16	Actinium-228	pCi/m3	8.20E-04	4.51E-03		U
Air Particulate	5/11/2018 23:16	Antimony-124	pCi/m3	1.99E-03	7.72E-03		U
Air Particulate	5/11/2018 23:16	Antimony-125	pCi/m3	1.16E-04	1.93E-03		U
Air Particulate	5/11/2018 23:16	Barium-140	pCi/m3	7.98E-01	1.07E+00		U
Air Particulate	5/11/2018 23:16	Beryllium-7	pCi/m3	1.87E-01	2.07E-02		
Air Particulate	5/11/2018 23:16	Cerium-141	pCi/m3	-1.58E-03	6.46E-03		U
Air Particulate	5/11/2018 23:16	Cerium-144	pCi/m3	-1.75E-04	3.11E-03		U
Air Particulate	5/11/2018 23:16	Cesium-134	pCi/m3	-5.28E-05	7.79E-04	5.00E-02	U
Air Particulate	5/11/2018 23:16	Cesium-137	pCi/m3	-1.12E-04	7.75E-04	6.00E-02	U
Air Particulate	5/11/2018 23:16	Cobalt-57	pCi/m3	2.36E-04	4.92E-04		U
Air Particulate	5/11/2018 23:16	Cobalt-58	pCi/m3	-7.24E-05	1.73E-03		U
Air Particulate	5/11/2018 23:16	Cobalt-60	pCi/m3	-5.64E-04	4.92E-04		U
Air Particulate	5/11/2018 23:16	Iodine-131	pCi/m3	-1.01E+00	0.00E+00		U
Air Particulate	5/11/2018 23:16	Iron-59	pCi/m3	1.72E-03	9.73E-03		U
Air Particulate	5/11/2018 23:16	Lanthanum-140	pCi/m3	1.82E-02	4.20E-01		U
Air Particulate	5/11/2018 23:16	Manganese-54	pCi/m3	-1.99E-04	7.39E-04		U
Air Particulate	5/11/2018 23:16	Niobium-95	pCi/m3	-4.26E-04	2.16E-03		U
Air Particulate	5/11/2018 23:16	Potassium-40	pCi/m3	3.67E-03	6.37E-03		U
Air Particulate	5/11/2018 23:16	Ruthenium-103	pCi/m3	2.95E-03	4.93E-03		U
Air Particulate	5/11/2018 23:16	Ruthenium-106	pCi/m3	-9.18E-04	7.16E-03		U
Air Particulate	5/11/2018 23:16	Selenium-75	pCi/m3	5.31E-05	1.18E-03		U
Air Particulate	5/11/2018 23:16	Silver-108m	pCi/m3	5.25E-04	7.48E-04		U

Air Particulate	5/11/2018 23:16	Silver-110m	pCi/m3	3.53E-04	1.49E-03		U
Air Particulate	5/11/2018 23:16	Thorium-228	pCi/m3	1.44E-03	8.47E-04		UI
Air Particulate	5/11/2018 23:16	Zinc-65	pCi/m3	4.07E-04	2.80E-03		U
Air Particulate	5/11/2018 23:16	Zirconium-95	pCi/m3	-2.15E-03	4.36E-03		U
Air Particulate	8/17/2018 20:55	BETA	pCi/m3	3.56E-02	2.97E-03	1.00E-02	
Air Particulate	8/24/2018 21:30	BETA	pCi/m3	5.70E-02	2.77E-03	1.00E-02	
Air Particulate	8/31/2018 21:14	BETA	pCi/m3	2.92E-02	3.69E-03	1.00E-02	
Air Particulate	9/7/2018 21:16	BETA	pCi/m3	2.46E-02	3.63E-03	1.00E-02	
Air Particulate	9/14/2018 21:18	BETA	pCi/m3	3.02E-02	3.00E-03	1.00E-02	
Air Particulate	9/21/2018 21:04	BETA	pCi/m3	2.47E-02	2.95E-03	1.00E-02	
Air Particulate	9/28/2018 21:30	BETA	pCi/m3	3.66E-02	3.65E-03	1.00E-02	
Air Particulate	10/5/2018 21:32	BETA	pCi/m3	3.04E-02	2.98E-03	1.00E-02	
Air Particulate	10/12/2018 21:07	BETA	pCi/m3	2.86E-02	2.98E-03	1.00E-02	
Air Particulate	10/19/2018 20:51	BETA	pCi/m3	5.42E-02	3.07E-03	1.00E-02	
Air Particulate	10/26/2018 21:42	BETA	pCi/m3	4.80E-02	2.80E-03	1.00E-02	
Air Particulate	11/2/2018 21:26	BETA	pCi/m3	4.94E-02	2.84E-03	1.00E-02	
Air Particulate	11/9/2018 20:40	BETA	pCi/m3	4.45E-02	2.91E-03	1.00E-02	
Air Particulate	8/10/2018 22:44	Actinium-228	pCi/m3	-8.78E-04	2.03E-03		U
Air Particulate	8/10/2018 22:44	Antimony-124	pCi/m3	2.20E-03	5.74E-03		U
Air Particulate	8/10/2018 22:44	Antimony-125	pCi/m3	4.96E-04	1.36E-03		U
Air Particulate	8/10/2018 22:44	Barium-140	pCi/m3	5.13E-02	7.61E-01		U
Air Particulate	8/10/2018 22:44	Beryllium-7	pCi/m3	1.32E-01	1.51E-02		
Air Particulate	8/10/2018 22:44	Cerium-141	pCi/m3	2.70E-03	5.74E-03		U
Air Particulate	8/10/2018 22:44	Cerium-144	pCi/m3	1.02E-05	2.93E-03		U
Air Particulate	8/10/2018 22:44	Cesium-134	pCi/m3	-7.96E-05	6.13E-04	5.00E-02	U
Air Particulate	8/10/2018 22:44	Cesium-137	pCi/m3	-2.54E-04	3.35E-04	6.00E-02	U
Air Particulate	8/10/2018 22:44	Cobalt-57	pCi/m3	-7.01E-05	3.21E-04		U
Air Particulate	8/10/2018 22:44	Cobalt-58	pCi/m3	5.04E-04	1.58E-03		U
Air Particulate	8/10/2018 22:44	Cobalt-60	pCi/m3	1.52E-04	5.88E-04		U
Air Particulate	8/10/2018 22:44	Iodine-131	pCi/m3	8.28E-01	0.00E+00		UI
Air Particulate	8/10/2018 22:44	Iron-59	pCi/m3	-2.11E-03	4.64E-03		U
Air Particulate	8/10/2018 22:44	Lanthanum-140	pCi/m3	1.57E-01	3.95E-01		U
Air Particulate	8/10/2018 22:44	Manganese-54	pCi/m3	3.48E-04	8.02E-04		U
Air Particulate	8/10/2018 22:44	Niobium-95	pCi/m3	-1.08E-04	1.64E-03		U
Air Particulate	8/10/2018 22:44	Potassium-40	pCi/m3	3.51E-03	7.12E-03		U
Air Particulate	8/10/2018 22:44	Ruthenium-103	pCi/m3	-5.85E-04	2.68E-03		U
Air Particulate	8/10/2018 22:44	Ruthenium-106	pCi/m3	1.43E-03	4.93E-03		U
Air Particulate	8/10/2018 22:44	Selenium-75	pCi/m3	-1.78E-04	8.32E-04		U
Air Particulate	8/10/2018 22:44	Silver-108m	pCi/m3	7.52E-05	3.51E-04		U
Air Particulate	8/10/2018 22:44	Silver-110m	pCi/m3	7.91E-04	1.30E-03		U
Air Particulate	8/10/2018 22:44	Thorium-228	pCi/m3	1.67E-04	9.88E-04		U
Air Particulate	8/10/2018 22:44	Zinc-65	pCi/m3	-4.88E-04	1.64E-03		U
Air Particulate	8/10/2018 22:44	Zirconium-95	pCi/m3	7.11E-04	3.00E-03		U
Air Particulate	11/16/2018 21:19	BETA	pCi/m3	5.97E-02	2.89E-03	1.00E-02	

Air Particulate	11/23/2018 22:39	BETA	pCi/m3	5.18E-02	3.43E-03	1.00E-02	
Air Particulate	11/30/2018 22:26	BETA	pCi/m3	3.72E-02	3.00E-03	1.00E-02	
Air Particulate	12/7/2018 21:42	BETA	pCi/m3	5.22E-02	2.95E-03	1.00E-02	
Air Particulate	12/14/2018 22:46	BETA	pCi/m3	5.59E-02	3.49E-03	1.00E-02	
Air Particulate	12/22/2018 9:29	BETA	pCi/m3	3.17E-02	2.98E-03	1.00E-02	
Air Particulate	12/29/2018 19:19	BETA	pCi/m3	5.89E-02	3.31E-03	1.00E-02	
Air Particulate	11/10/2018 8:28	Actinium-228	pCi/m3	-2.21E-04	2.11E-03		U
Air Particulate	11/10/2018 8:28	Antimony-124	pCi/m3	-7.91E-05	1.21E-03		U
Air Particulate	11/10/2018 8:28	Antimony-125	pCi/m3	2.34E-04	9.48E-04		U
Air Particulate	11/10/2018 8:28	Barium-140	pCi/m3	1.91E-03	6.77E-03		U
Air Particulate	11/10/2018 8:28	Beryllium-7	pCi/m3	9.88E-02	5.20E-03		
Air Particulate	11/10/2018 8:28	Cerium-141	pCi/m3	-5.43E-05	9.16E-04		U
Air Particulate	11/10/2018 8:28	Cerium-144	pCi/m3	-1.26E-04	1.86E-03		U
Air Particulate	11/10/2018 8:28	Cesium-134	pCi/m3	6.08E-06	4.81E-04	5.00E-02	U
Air Particulate	11/10/2018 8:28	Cesium-137	pCi/m3	1.63E-04	5.38E-04	6.00E-02	U
Air Particulate	11/10/2018 8:28	Cobalt-57	pCi/m3	-1.83E-05	2.38E-04		U
Air Particulate	11/10/2018 8:28	Cobalt-58	pCi/m3	-2.32E-04	5.65E-04		U
Air Particulate	11/10/2018 8:28	Cobalt-60	pCi/m3	2.05E-04	5.70E-04		U
Air Particulate	11/10/2018 8:28	Iodine-131	pCi/m3	-1.99E-03	5.67E-03		U
Air Particulate	11/10/2018 8:28	Iron-59	pCi/m3	1.77E-04	1.46E-03		U
Air Particulate	11/10/2018 8:28	Lanthanum-140	pCi/m3	6.31E-04	2.73E-03		U
Air Particulate	11/10/2018 8:28	Manganese-54	pCi/m3	-1.15E-04	3.55E-04		U
Air Particulate	11/10/2018 8:28	Niobium-95	pCi/m3	2.63E-04	5.85E-04		U
Air Particulate	11/10/2018 8:28	Potassium-40	pCi/m3	3.10E-03	8.58E-03		U
Air Particulate	11/10/2018 8:28	Ruthenium-103	pCi/m3	-1.09E-06	6.20E-04		U
Air Particulate	11/10/2018 8:28	Ruthenium-106	pCi/m3	3.99E-04	3.85E-03		U
Air Particulate	11/10/2018 8:28	Selenium-75	pCi/m3	-1.00E-04	5.31E-04		U
Air Particulate	11/10/2018 8:28	Silver-108m	pCi/m3	-1.32E-04	2.86E-04		U
Air Particulate	11/10/2018 8:28	Silver-110m	pCi/m3	1.13E-04	5.88E-04		U
Air Particulate	11/10/2018 8:28	Thorium-228	pCi/m3	7.12E-05	6.19E-04		U
Air Particulate	11/10/2018 8:28	Zinc-65	pCi/m3	-1.04E-04	1.02E-03		U
Air Particulate	11/10/2018 8:28	Zirconium-95	pCi/m3	1.38E-04	8.33E-04		U

The data obtained from this website is the most accurate possible at the time of your query and based upon your specific inquiry. This data does not replace the Certificates of Analysis provided by GEL. Certificates of Analysis undergo an additional level of review before being sent to the client that is not

Notes:

1. LLDs are a-priori values.
2. MDCs are calculated a-posteriori values.
3. Gamma spectroscopy analysis results are calculated from a measurement using only one gamma energy
4. Air sample volumes are received in units of ft3. GEL converts the units and reports them as m3.

QUALIFIERS:

U Target isotope was analyzed for but not detected above the MDC or LLD.
UI Uncertain identification for gamma spectroscopy.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager f
M Reported result is less than the LLD and greater than the MDC.
DL DL MDC > LLD.

Sample Data For: "A-4"

Matrix	Collect Date	Parmname	Units	Result	MDC	LLD	Qualifier
Air Particulate	1/5/2018 22:30	BETA	pCi/m3	4.15E-02	2.38E-03	1.00E-02	
Air Particulate	1/12/2018 21:19	BETA	pCi/m3	3.07E-02	2.31E-03	1.00E-02	
Air Particulate	1/19/2018 9:08	BETA	pCi/m3	3.07E-02	2.58E-03	1.00E-02	
Air Particulate	1/26/2018 9:20	BETA	pCi/m3	3.79E-02	1.93E-03	1.00E-02	
Air Particulate	2/2/2018 21:13	BETA	pCi/m3	4.46E-02	2.33E-03	1.00E-02	
Air Particulate	2/9/2018 21:48	BETA	pCi/m3	5.10E-02	2.98E-03	1.00E-02	
Air Particulate	2/16/2018 21:22	BETA	pCi/m3	4.02E-02	2.41E-03	1.00E-02	
Air Particulate	2/23/2018 20:43	BETA	pCi/m3	1.94E-02	2.35E-03	1.00E-02	
Air Particulate	3/2/2018 22:34	BETA	pCi/m3	3.68E-02	2.50E-03	1.00E-02	
Air Particulate	3/9/2018 23:10	BETA	pCi/m3	3.42E-02	2.36E-03	1.00E-02	
Air Particulate	3/16/2018 22:01	BETA	pCi/m3	2.81E-02	2.34E-03	1.00E-02	
Air Particulate	3/23/2018 22:33	BETA	pCi/m3	4.80E-02	4.03E-03	1.00E-02	
Air Particulate	3/30/2018 22:14	BETA	pCi/m3	3.57E-02	2.98E-03	1.00E-02	
Air Particulate	4/6/2018 20:51	BETA	pCi/m3	4.34E-02	3.83E-03	1.00E-02	
Air Particulate	4/13/2018 20:09	BETA	pCi/m3	3.96E-02	3.16E-03	1.00E-02	
Air Particulate	4/20/2018 20:22	BETA	pCi/m3	2.63E-02	2.86E-03	1.00E-02	
Air Particulate	4/27/2018 20:29	BETA	pCi/m3	3.63E-02	3.02E-03	1.00E-02	
Air Particulate	5/4/2018 21:05	BETA	pCi/m3	4.58E-02	3.71E-03	1.00E-02	
Air Particulate	5/11/2018 21:31	BETA	pCi/m3	3.94E-02	2.93E-03	1.00E-02	
Air Particulate	2/9/2018 22:36	Actinium-228	pCi/m3	-8.28E-04	2.01E-03		U
Air Particulate	2/9/2018 22:36	Antimony-124	pCi/m3	-5.66E-04	1.62E-03		U
Air Particulate	2/9/2018 22:36	Antimony-125	pCi/m3	4.76E-04	1.19E-03		U
Air Particulate	2/9/2018 22:36	Barium-140	pCi/m3	-7.58E-02	3.69E-01		U
Air Particulate	2/9/2018 22:36	Beryllium-7	pCi/m3	1.38E-01	1.16E-02		
Air Particulate	2/9/2018 22:36	Cerium-141	pCi/m3	-2.09E-03	4.12E-03		U
Air Particulate	2/9/2018 22:36	Cerium-144	pCi/m3	1.01E-03	2.54E-03		U
Air Particulate	2/9/2018 22:36	Cesium-134	pCi/m3	4.66E-05	6.25E-04	5.00E-02	U
Air Particulate	2/9/2018 22:36	Cesium-137	pCi/m3	-2.90E-04	2.48E-04	6.00E-02	U
Air Particulate	2/9/2018 22:36	Cobalt-57	pCi/m3	-1.34E-04	2.55E-04		U
Air Particulate	2/9/2018 22:36	Cobalt-58	pCi/m3	-1.88E-04	9.86E-04		U
Air Particulate	2/9/2018 22:36	Cobalt-60	pCi/m3	-1.51E-04	5.26E-04		U
Air Particulate	2/9/2018 22:36	Iodine-131	pCi/m3	3.30E-01	0.00E+00		UI
Air Particulate	2/9/2018 22:36	Iron-59	pCi/m3	1.36E-03	5.11E-03		U
Air Particulate	2/9/2018 22:36	Lanthanum-140	pCi/m3	-8.37E-02	1.41E-01		U

Air Particulate	2/9/2018 22:36	Manganese-54	pCi/m3	-2.34E-04	4.99E-04		U
Air Particulate	2/9/2018 22:36	Niobium-95	pCi/m3	0.00E+00	1.11E-03		U
Air Particulate	2/9/2018 22:36	Potassium-40	pCi/m3	1.04E-02	4.43E-03		UI
Air Particulate	2/9/2018 22:36	Ruthenium-103	pCi/m3	-5.98E-04	2.20E-03		U
Air Particulate	2/9/2018 22:36	Ruthenium-106	pCi/m3	-1.39E-03	4.20E-03		U
Air Particulate	2/9/2018 22:36	Selenium-75	pCi/m3	-4.09E-04	7.50E-04		U
Air Particulate	2/9/2018 22:36	Silver-108m	pCi/m3	2.37E-05	3.48E-04		U
Air Particulate	2/9/2018 22:36	Silver-110m	pCi/m3	9.57E-06	8.54E-04		U
Air Particulate	2/9/2018 22:36	Thorium-228	pCi/m3	2.40E-04	8.41E-04		U
Air Particulate	2/9/2018 22:36	Zinc-65	pCi/m3	-7.79E-05	9.65E-04		U
Air Particulate	2/9/2018 22:36	Zirconium-95	pCi/m3	-3.26E-04	2.49E-03		U
Air Particulate	5/18/2018 20:47	BETA	pCi/m3	4.17E-02	3.59E-03	1.00E-02	
Air Particulate	5/25/2018 20:57	BETA	pCi/m3	3.22E-02	3.60E-03	1.00E-02	
Air Particulate	6/1/2018 21:03	BETA	pCi/m3	3.93E-02	3.60E-03	1.00E-02	
Air Particulate	6/8/2018 20:52	BETA	pCi/m3	4.17E-02	2.94E-03	1.00E-02	
Air Particulate	6/15/2018 20:56	BETA	pCi/m3	2.29E-02	2.96E-03	1.00E-02	
Air Particulate	6/22/2018 22:08	BETA	pCi/m3	2.50E-02	2.78E-03	1.00E-02	
Air Particulate	6/29/2018 21:05	BETA	pCi/m3	3.06E-02	2.77E-03	1.00E-02	
Air Particulate	7/6/2018 19:39	BETA	pCi/m3	3.68E-02	2.80E-03	1.00E-02	
Air Particulate	7/13/2018 20:40	BETA	pCi/m3	4.30E-02	3.51E-03	1.00E-02	
Air Particulate	7/20/2018 20:44	BETA	pCi/m3	4.26E-02	2.89E-03	1.00E-02	
Air Particulate	7/27/2018 20:35	BETA	pCi/m3	6.92E-02	3.49E-03	1.00E-02	
Air Particulate	8/3/2018 20:50	BETA	pCi/m3	4.54E-02	2.88E-03	1.00E-02	
Air Particulate	8/10/2018 20:53	BETA	pCi/m3	3.21E-02	2.87E-03	1.00E-02	
Air Particulate	5/11/2018 23:16	Actinium-228	pCi/m3	7.36E-04	3.97E-03		U
Air Particulate	5/11/2018 23:16	Antimony-124	pCi/m3	3.21E-04	9.00E-03		U
Air Particulate	5/11/2018 23:16	Antimony-125	pCi/m3	1.65E-04	1.84E-03		U
Air Particulate	5/11/2018 23:16	Barium-140	pCi/m3	1.73E-01	1.06E+00		U
Air Particulate	5/11/2018 23:16	Beryllium-7	pCi/m3	1.70E-01	2.93E-02		
Air Particulate	5/11/2018 23:16	Cerium-141	pCi/m3	7.60E-04	7.24E-03		U
Air Particulate	5/11/2018 23:16	Cerium-144	pCi/m3	-2.35E-04	3.03E-03		U
Air Particulate	5/11/2018 23:16	Cesium-134	pCi/m3	-2.14E-05	7.56E-04	5.00E-02	U
Air Particulate	5/11/2018 23:16	Cesium-137	pCi/m3	4.24E-04	1.05E-03	6.00E-02	U
Air Particulate	5/11/2018 23:16	Cobalt-57	pCi/m3	3.33E-05	4.19E-04		U
Air Particulate	5/11/2018 23:16	Cobalt-58	pCi/m3	-3.05E-05	2.25E-03		U
Air Particulate	5/11/2018 23:16	Cobalt-60	pCi/m3	2.26E-05	1.03E-03		U
Air Particulate	5/11/2018 23:16	Iodine-131	pCi/m3	1.17E+00	0.00E+00		UI
Air Particulate	5/11/2018 23:16	Iron-59	pCi/m3	4.80E-03	1.10E-02		U
Air Particulate	5/11/2018 23:16	Lanthanum-140	pCi/m3	6.86E-02	4.22E-01		U
Air Particulate	5/11/2018 23:16	Manganese-54	pCi/m3	-4.99E-04	6.00E-04		U
Air Particulate	5/11/2018 23:16	Niobium-95	pCi/m3	5.32E-04	3.03E-03		U
Air Particulate	5/11/2018 23:16	Potassium-40	pCi/m3	8.70E-03	1.86E-02		U
Air Particulate	5/11/2018 23:16	Ruthenium-103	pCi/m3	-9.48E-04	3.98E-03		U
Air Particulate	5/11/2018 23:16	Ruthenium-106	pCi/m3	-6.90E-04	7.22E-03		U

Air Particulate	5/11/2018 23:16	Selenium-75	pCi/m3	-5.32E-04	1.16E-03		U
Air Particulate	5/11/2018 23:16	Silver-108m	pCi/m3	8.24E-05	7.26E-04		U
Air Particulate	5/11/2018 23:16	Silver-110m	pCi/m3	-1.13E-04	1.32E-03		U
Air Particulate	5/11/2018 23:16	Thorium-228	pCi/m3	-2.11E-04	1.19E-03		U
Air Particulate	5/11/2018 23:16	Zinc-65	pCi/m3	5.72E-04	2.18E-03		U
Air Particulate	5/11/2018 23:16	Zirconium-95	pCi/m3	-1.26E-03	4.14E-03		U
Air Particulate	8/17/2018 20:35	BETA	pCi/m3	3.75E-02	2.86E-03	1.00E-02	
Air Particulate	8/24/2018 21:13	BETA	pCi/m3	5.37E-02	3.47E-03	1.00E-02	
Air Particulate	8/31/2018 20:59	BETA	pCi/m3	2.09E-02	2.88E-03	1.00E-02	
Air Particulate	9/7/2018 20:57	BETA	pCi/m3	2.17E-02	2.86E-03	1.00E-02	
Air Particulate	9/14/2018 20:59	BETA	pCi/m3	2.51E-02	3.00E-03	1.00E-02	
Air Particulate	9/21/2018 20:48	BETA	pCi/m3	2.07E-02	3.10E-03	1.00E-02	
Air Particulate	9/28/2018 21:13	BETA	pCi/m3	2.50E-02	2.99E-03	1.00E-02	
Air Particulate	10/5/2018 21:14	BETA	pCi/m3	3.60E-02	3.64E-03	1.00E-02	
Air Particulate	10/12/2018 20:50	BETA	pCi/m3	2.53E-02	3.14E-03	1.00E-02	
Air Particulate	10/19/2018 20:29	BETA	pCi/m3	5.03E-02	3.65E-03	1.00E-02	
Air Particulate	10/26/2018 21:24	BETA	pCi/m3	4.65E-02	3.02E-03	1.00E-02	
Air Particulate	11/2/2018 21:13	BETA	pCi/m3	3.88E-02	3.07E-03	1.00E-02	
Air Particulate	11/9/2018 20:27	BETA	pCi/m3	4.61E-02	3.09E-03	1.00E-02	
Air Particulate	8/10/2018 22:26	Actinium-228	pCi/m3	-6.81E-04	2.69E-03		U
Air Particulate	8/10/2018 22:26	Antimony-124	pCi/m3	7.25E-05	5.20E-03		U
Air Particulate	8/10/2018 22:26	Antimony-125	pCi/m3	-1.22E-05	1.43E-03		U
Air Particulate	8/10/2018 22:26	Barium-140	pCi/m3	2.48E-01	1.01E+00		U
Air Particulate	8/10/2018 22:26	Beryllium-7	pCi/m3	1.19E-01	1.61E-02		
Air Particulate	8/10/2018 22:26	Cerium-141	pCi/m3	-1.36E-03	4.97E-03		U
Air Particulate	8/10/2018 22:26	Cerium-144	pCi/m3	-3.31E-06	2.30E-03		U
Air Particulate	8/10/2018 22:26	Cesium-134	pCi/m3	3.65E-04	7.41E-04	5.00E-02	U
Air Particulate	8/10/2018 22:26	Cesium-137	pCi/m3	1.17E-04	5.81E-04	6.00E-02	U
Air Particulate	8/10/2018 22:26	Cobalt-57	pCi/m3	1.55E-04	3.67E-04		U
Air Particulate	8/10/2018 22:26	Cobalt-58	pCi/m3	8.12E-04	2.13E-03		U
Air Particulate	8/10/2018 22:26	Cobalt-60	pCi/m3	-1.22E-04	8.67E-04		U
Air Particulate	8/10/2018 22:26	Iodine-131	pCi/m3	-3.57E+00	0.00E+00		U
Air Particulate	8/10/2018 22:26	Iron-59	pCi/m3	-5.67E-03	4.57E-03		U
Air Particulate	8/10/2018 22:26	Lanthanum-140	pCi/m3	-1.61E-01	2.03E-01		U
Air Particulate	8/10/2018 22:26	Manganese-54	pCi/m3	-4.57E-05	5.27E-04		U
Air Particulate	8/10/2018 22:26	Niobium-95	pCi/m3	1.32E-03	2.41E-03		U
Air Particulate	8/10/2018 22:26	Potassium-40	pCi/m3	6.51E-03	1.20E-02		U
Air Particulate	8/10/2018 22:26	Ruthenium-103	pCi/m3	-3.70E-05	3.41E-03		U
Air Particulate	8/10/2018 22:26	Ruthenium-106	pCi/m3	1.01E-03	6.43E-03		U
Air Particulate	8/10/2018 22:26	Selenium-75	pCi/m3	5.74E-04	1.15E-03		U
Air Particulate	8/10/2018 22:26	Silver-108m	pCi/m3	1.00E-04	4.50E-04		U
Air Particulate	8/10/2018 22:26	Silver-110m	pCi/m3	-6.03E-06	9.75E-04		U
Air Particulate	8/10/2018 22:26	Thorium-228	pCi/m3	1.46E-05	9.25E-04		U
Air Particulate	8/10/2018 22:26	Zinc-65	pCi/m3	3.30E-04	2.19E-03		U

Air Particulate	8/10/2018 22:26	Zirconium-95	pCi/m3	-1.21E-03	2.81E-03		U
Air Particulate	11/16/2018 21:05	BETA	pCi/m3	6.05E-02	3.06E-03	1.00E-02	
Air Particulate	11/23/2018 22:20	BETA	pCi/m3	4.34E-02	2.82E-03	1.00E-02	
Air Particulate	11/30/2018 22:10	BETA	pCi/m3	3.72E-02	3.53E-03	1.00E-02	
Air Particulate	12/7/2018 21:26	BETA	pCi/m3	4.44E-02	3.31E-03	1.00E-02	
Air Particulate	12/14/2018 22:29	BETA	pCi/m3	4.89E-02	3.26E-03	1.00E-02	
Air Particulate	12/21/2018 22:54	BETA	pCi/m3	3.51E-02	3.56E-03	1.00E-02	
Air Particulate	12/28/2018 21:39	BETA	pCi/m3	4.29E-02	2.98E-03	1.00E-02	
Air Particulate	11/9/2018 21:53	Actinium-228	pCi/m3	-3.10E-05	2.68E-03		U
Air Particulate	11/9/2018 21:53	Antimony-124	pCi/m3	7.26E-04	2.00E-03		U
Air Particulate	11/9/2018 21:53	Antimony-125	pCi/m3	9.17E-04	1.50E-03		U
Air Particulate	11/9/2018 21:53	Barium-140	pCi/m3	3.07E-03	9.86E-03		U
Air Particulate	11/9/2018 21:53	Beryllium-7	pCi/m3	8.56E-02	5.94E-03		
Air Particulate	11/9/2018 21:53	Cerium-141	pCi/m3	1.36E-04	1.06E-03		U
Air Particulate	11/9/2018 21:53	Cerium-144	pCi/m3	-1.66E-04	2.50E-03		U
Air Particulate	11/9/2018 21:53	Cesium-134	pCi/m3	7.80E-05	5.99E-04	5.00E-02	U
Air Particulate	11/9/2018 21:53	Cesium-137	pCi/m3	-1.04E-04	5.59E-04	6.00E-02	U
Air Particulate	11/9/2018 21:53	Cobalt-57	pCi/m3	-8.21E-05	2.90E-04		U
Air Particulate	11/9/2018 21:53	Cobalt-58	pCi/m3	2.21E-04	7.56E-04		U
Air Particulate	11/9/2018 21:53	Cobalt-60	pCi/m3	-3.83E-04	5.11E-04		U
Air Particulate	11/9/2018 21:53	Iodine-131	pCi/m3	-2.43E-03	8.18E-03		U
Air Particulate	11/9/2018 21:53	Iron-59	pCi/m3	2.73E-04	1.65E-03		U
Air Particulate	11/9/2018 21:53	Lanthanum-140	pCi/m3	-4.99E-04	3.02E-03		U
Air Particulate	11/9/2018 21:53	Manganese-54	pCi/m3	1.33E-04	7.34E-04		U
Air Particulate	11/9/2018 21:53	Niobium-95	pCi/m3	-1.93E-04	6.47E-04		U
Air Particulate	11/9/2018 21:53	Potassium-40	pCi/m3	1.77E-02	4.87E-03		
Air Particulate	11/9/2018 21:53	Ruthenium-103	pCi/m3	-1.49E-04	7.07E-04		U
Air Particulate	11/9/2018 21:53	Ruthenium-106	pCi/m3	-8.15E-04	4.51E-03		U
Air Particulate	11/9/2018 21:53	Selenium-75	pCi/m3	1.13E-04	7.13E-04		U
Air Particulate	11/9/2018 21:53	Silver-108m	pCi/m3	2.51E-04	5.08E-04		U
Air Particulate	11/9/2018 21:53	Silver-110m	pCi/m3	2.58E-05	8.82E-04		U
Air Particulate	11/9/2018 21:53	Thorium-228	pCi/m3	-3.90E-05	8.83E-04		U
Air Particulate	11/9/2018 21:53	Zinc-65	pCi/m3	-4.11E-04	8.53E-04		U
Air Particulate	11/9/2018 21:53	Zirconium-95	pCi/m3	4.56E-04	1.45E-03		U

Notes:

1. LLDs are a-priori values.
2. MDCs are calculated a-posteriori values.
3. Gamma spectroscopy analysis results are calculated from a measurement using only one gamma energy
4. Air sample volumes are received in units of ft3. GEL converts the units and reports them as m3.

QUALIFIERS:

U Target isotope was analyzed for but not detected above the MDC or LLD.
UI Uncertain identification for gamma spectroscopy.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager f
M Reported result is less than the LLD and greater than the MDC.
DL DL MDC > LLD.

Sample Data For: "A-5"

Matrix	Collect Date	Parmname	Units	Result	MDC	LLD	Qualifier
Air Particulate	1/12/2018 20:34	BETA	pCi/m3	4.57E-02	2.31E-03	1.00E-02	
Air Particulate	1/19/2018 8:38	BETA	pCi/m3	4.58E-02	2.59E-03	1.00E-02	
Air Particulate	1/26/2018 8:44	BETA	pCi/m3	2.62E-02	1.93E-03	1.00E-02	
Air Particulate	2/2/2018 20:23	BETA	pCi/m3	3.38E-02	2.69E-03	1.00E-02	
Air Particulate	2/9/2018 21:07	BETA	pCi/m3	5.43E-02	2.71E-03	1.00E-02	
Air Particulate	2/16/2018 20:41	BETA	pCi/m3	3.40E-02	2.75E-03	1.00E-02	
Air Particulate	2/23/2018 19:53	BETA	pCi/m3	3.00E-01	1.05E-01	1.00E-02	DL
Air Particulate	3/2/2018 20:44	BETA	pCi/m3	3.27E-02	2.31E-03	1.00E-02	
Air Particulate	3/9/2018 21:03	BETA	pCi/m3	3.20E-02	2.62E-03	1.00E-02	
Air Particulate	3/16/2018 20:56	BETA	pCi/m3	3.10E-02	2.33E-03	1.00E-02	
Air Particulate	3/23/2018 23:03	BETA	pCi/m3	3.23E-02	3.67E-03	1.00E-02	
Air Particulate	3/30/2018 22:47	BETA	pCi/m3	3.28E-02	2.95E-03	1.00E-02	
Air Particulate	4/6/2018 20:11	BETA	pCi/m3	3.24E-02	3.81E-03	1.00E-02	
Air Particulate	4/13/2018 19:21	BETA	pCi/m3	3.34E-02	3.02E-03	1.00E-02	
Air Particulate	4/20/2018 19:28	BETA	pCi/m3	3.30E-02	3.62E-03	1.00E-02	
Air Particulate	4/27/2018 19:43	BETA	pCi/m3	3.47E-02	2.95E-03	1.00E-02	
Air Particulate	5/4/2018 20:05	BETA	pCi/m3	3.15E-02	3.14E-03	1.00E-02	
Air Particulate	5/11/2018 20:23	BETA	pCi/m3	5.00E-02	3.60E-03	1.00E-02	
Air Particulate	2/9/2018 22:53	Actinium-228	pCi/m3	-3.13E-04	3.09E-03		U
Air Particulate	2/9/2018 22:53	Antimony-124	pCi/m3	2.83E-04	5.64E-03		U
Air Particulate	2/9/2018 22:53	Antimony-125	pCi/m3	-3.06E-05	1.15E-03		U
Air Particulate	2/9/2018 22:53	Barium-140	pCi/m3	6.57E-02	5.39E-01		U
Air Particulate	2/9/2018 22:53	Beryllium-7	pCi/m3	1.23E-01	1.11E-02		
Air Particulate	2/9/2018 22:53	Cerium-141	pCi/m3	-3.66E-03	4.66E-03		U
Air Particulate	2/9/2018 22:53	Cerium-144	pCi/m3	2.60E-04	2.82E-03		U
Air Particulate	2/9/2018 22:53	Cesium-134	pCi/m3	-1.82E-06	5.90E-04	5.00E-02	U
Air Particulate	2/9/2018 22:53	Cesium-137	pCi/m3	-1.29E-04	5.00E-04	6.00E-02	U
Air Particulate	2/9/2018 22:53	Cobalt-57	pCi/m3	4.08E-07	3.58E-04		U
Air Particulate	2/9/2018 22:53	Cobalt-58	pCi/m3	5.89E-05	1.51E-03		U
Air Particulate	2/9/2018 22:53	Cobalt-60	pCi/m3	-8.44E-05	7.48E-04		U
Air Particulate	2/9/2018 22:53	Iodine-131	pCi/m3	-3.34E-01	0.00E+00		U
Air Particulate	2/9/2018 22:53	Iron-59	pCi/m3	-9.26E-04	5.70E-03		U

Air Particulate	2/9/2018 22:53	Lanthanum-140	pCi/m3	-1.06E-01	9.81E-02		U
Air Particulate	2/9/2018 22:53	Manganese-54	pCi/m3	-1.88E-04	5.62E-04		U
Air Particulate	2/9/2018 22:53	Niobium-95	pCi/m3	7.89E-05	1.81E-03		U
Air Particulate	2/9/2018 22:53	Potassium-40	pCi/m3	3.29E-03	1.41E-02		U
Air Particulate	2/9/2018 22:53	Ruthenium-103	pCi/m3	4.48E-04	2.83E-03		U
Air Particulate	2/9/2018 22:53	Ruthenium-106	pCi/m3	-9.08E-04	4.92E-03		U
Air Particulate	2/9/2018 22:53	Selenium-75	pCi/m3	-3.74E-04	8.43E-04		U
Air Particulate	2/9/2018 22:53	Silver-108m	pCi/m3	1.89E-05	4.46E-04		U
Air Particulate	2/9/2018 22:53	Silver-110m	pCi/m3	-3.88E-05	1.04E-03		U
Air Particulate	2/9/2018 22:53	Thorium-228	pCi/m3	-7.69E-04	8.29E-04		U
Air Particulate	2/9/2018 22:53	Zinc-65	pCi/m3	2.92E-04	1.60E-03		U
Air Particulate	2/9/2018 22:53	Zirconium-95	pCi/m3	-4.46E-04	2.68E-03		U
Air Particulate	5/18/2018 19:56	BETA	pCi/m3	3.23E-02	2.92E-03	1.00E-02	
Air Particulate	5/25/2018 20:08	BETA	pCi/m3	2.50E-02	2.90E-03	1.00E-02	
Air Particulate	6/1/2018 20:06	BETA	pCi/m3	3.07E-02	2.83E-03	1.00E-02	
Air Particulate	6/8/2018 19:48	BETA	pCi/m3	3.57E-02	2.80E-03	1.00E-02	
Air Particulate	6/15/2018 19:56	BETA	pCi/m3	2.22E-02	2.99E-03	1.00E-02	
Air Particulate	6/22/2018 21:00	BETA	pCi/m3	2.45E-02	2.85E-03	1.00E-02	
Air Particulate	6/29/2018 20:49	BETA	pCi/m3	3.93E-02	3.70E-03	1.00E-02	
Air Particulate	7/6/2018 19:40	BETA	pCi/m3	3.21E-02	2.90E-03	1.00E-02	
Air Particulate	7/13/2018 19:47	BETA	pCi/m3	3.45E-02	2.85E-03	1.00E-02	
Air Particulate	7/20/2018 19:52	BETA	pCi/m3	4.74E-02	2.84E-03	1.00E-02	
Air Particulate	7/27/2018 19:48	BETA	pCi/m3	5.66E-02	2.77E-03	1.00E-02	
Air Particulate	8/3/2018 19:58	BETA	pCi/m3	4.44E-02	2.83E-03	1.00E-02	
Air Particulate	8/10/2018 20:07	BETA	pCi/m3	2.33E-02	2.88E-03	1.00E-02	
Air Particulate	5/11/2018 23:27	Actinium-228	pCi/m3	2.12E-04	3.24E-03		U
Air Particulate	5/11/2018 23:27	Antimony-124	pCi/m3	2.01E-03	7.84E-03		U
Air Particulate	5/11/2018 23:27	Antimony-125	pCi/m3	-5.39E-04	1.54E-03		U
Air Particulate	5/11/2018 23:27	Barium-140	pCi/m3	2.89E-01	1.11E+00		U
Air Particulate	5/11/2018 23:27	Beryllium-7	pCi/m3	1.23E-01	1.96E-02		
Air Particulate	5/11/2018 23:27	Cerium-141	pCi/m3	-2.13E-03	6.63E-03		U
Air Particulate	5/11/2018 23:27	Cerium-144	pCi/m3	-1.82E-04	2.98E-03		U
Air Particulate	5/11/2018 23:27	Cesium-134	pCi/m3	2.11E-04	8.20E-04	5.00E-02	U
Air Particulate	5/11/2018 23:27	Cesium-137	pCi/m3	2.24E-05	8.06E-04	6.00E-02	U
Air Particulate	5/11/2018 23:27	Cobalt-57	pCi/m3	1.53E-04	4.26E-04		U
Air Particulate	5/11/2018 23:27	Cobalt-58	pCi/m3	-1.36E-03	1.05E-03		U
Air Particulate	5/11/2018 23:27	Cobalt-60	pCi/m3	-4.70E-04	5.07E-04		U
Air Particulate	5/11/2018 23:27	Iodine-131	pCi/m3	-4.91E-01	0.00E+00		U
Air Particulate	5/11/2018 23:27	Iron-59	pCi/m3	1.09E-03	8.81E-03		U
Air Particulate	5/11/2018 23:27	Lanthanum-140	pCi/m3	-1.01E-01	2.69E-01		U
Air Particulate	5/11/2018 23:27	Manganese-54	pCi/m3	-9.14E-05	8.61E-04		U
Air Particulate	5/11/2018 23:27	Niobium-95	pCi/m3	2.89E-04	2.46E-03		U
Air Particulate	5/11/2018 23:27	Potassium-40	pCi/m3	4.15E-03	1.71E-02		U
Air Particulate	5/11/2018 23:27	Ruthenium-103	pCi/m3	1.32E-03	5.51E-03		U

Air Particulate	5/11/2018 23:27	Ruthenium-106	pCi/m3	1.02E-03	7.23E-03		U
Air Particulate	5/11/2018 23:27	Selenium-75	pCi/m3	3.45E-04	1.31E-03		U
Air Particulate	5/11/2018 23:27	Silver-108m	pCi/m3	-2.00E-04	4.64E-04		U
Air Particulate	5/11/2018 23:27	Silver-110m	pCi/m3	4.98E-04	1.90E-03		U
Air Particulate	5/11/2018 23:27	Thorium-228	pCi/m3	-1.25E-04	1.05E-03		U
Air Particulate	5/11/2018 23:27	Zinc-65	pCi/m3	-3.62E-04	2.32E-03		U
Air Particulate	5/11/2018 23:27	Zirconium-95	pCi/m3	-4.55E-04	1.67E-03		U
Air Particulate	8/17/2018 19:47	BETA	pCi/m3	4.08E-02	3.64E-03	1.00E-02	
Air Particulate	8/24/2018 20:21	BETA	pCi/m3	4.71E-02	2.81E-03	1.00E-02	
Air Particulate	8/31/2018 20:14	BETA	pCi/m3	2.33E-02	2.89E-03	1.00E-02	
Air Particulate	9/7/2018 20:17	BETA	pCi/m3	2.52E-02	2.87E-03	1.00E-02	
Air Particulate	9/14/2018 20:20	BETA	pCi/m3	3.17E-02	3.84E-03	1.00E-02	
Air Particulate	9/21/2018 19:42	BETA	pCi/m3	2.20E-02	3.00E-03	1.00E-02	
Air Particulate	9/28/2018 20:06	BETA	pCi/m3	3.59E-02	2.98E-03	1.00E-02	
Air Particulate	10/5/2018 20:32	BETA	pCi/m3	2.75E-02	2.95E-03	1.00E-02	
Air Particulate	10/12/2018 20:08	BETA	pCi/m3	2.54E-02	2.96E-03	1.00E-02	
Air Particulate	10/19/2018 19:47	BETA	pCi/m3	4.26E-02	3.02E-03	1.00E-02	
Air Particulate	10/26/2018 20:39	BETA	pCi/m3	4.20E-02	3.18E-03	1.00E-02	
Air Particulate	11/2/2018 20:20	BETA	pCi/m3	3.98E-02	3.09E-03	1.00E-02	
Air Particulate	11/9/2018 19:35	BETA	pCi/m3	4.08E-02	3.20E-03	1.00E-02	
Air Particulate	8/10/2018 20:59	Actinium-228	pCi/m3	2.50E-04	2.33E-03		U
Air Particulate	8/10/2018 20:59	Antimony-124	pCi/m3	-1.50E-03	4.53E-04		U
Air Particulate	8/10/2018 20:59	Antimony-125	pCi/m3	1.11E-04	9.98E-04		U
Air Particulate	8/10/2018 20:59	Barium-140	pCi/m3	1.45E-01	8.92E-01		U
Air Particulate	8/10/2018 20:59	Beryllium-7	pCi/m3	1.48E-01	1.16E-02		
Air Particulate	8/10/2018 20:59	Cerium-141	pCi/m3	6.58E-04	5.65E-03		U
Air Particulate	8/10/2018 20:59	Cerium-144	pCi/m3	3.22E-06	2.40E-03		U
Air Particulate	8/10/2018 20:59	Cesium-134	pCi/m3	1.60E-04	5.66E-04	5.00E-02	U
Air Particulate	8/10/2018 20:59	Cesium-137	pCi/m3	-9.71E-05	4.94E-04	6.00E-02	U
Air Particulate	8/10/2018 20:59	Cobalt-57	pCi/m3	8.14E-05	3.15E-04		U
Air Particulate	8/10/2018 20:59	Cobalt-58	pCi/m3	1.69E-04	1.30E-03		U
Air Particulate	8/10/2018 20:59	Cobalt-60	pCi/m3	5.42E-05	5.44E-04		U
Air Particulate	8/10/2018 20:59	Iodine-131	pCi/m3	-1.82E+00	0.00E+00		U
Air Particulate	8/10/2018 20:59	Iron-59	pCi/m3	-1.44E-03	4.29E-03		U
Air Particulate	8/10/2018 20:59	Lanthanum-140	pCi/m3	-2.68E-02	2.75E-01		U
Air Particulate	8/10/2018 20:59	Manganese-54	pCi/m3	-1.44E-04	4.63E-04		U
Air Particulate	8/10/2018 20:59	Niobium-95	pCi/m3	-6.36E-04	1.77E-03		U
Air Particulate	8/10/2018 20:59	Potassium-40	pCi/m3	1.25E-02	5.86E-03		
Air Particulate	8/10/2018 20:59	Ruthenium-103	pCi/m3	-3.42E-04	2.80E-03		U
Air Particulate	8/10/2018 20:59	Ruthenium-106	pCi/m3	-2.13E-04	5.32E-03		U
Air Particulate	8/10/2018 20:59	Selenium-75	pCi/m3	1.49E-04	9.79E-04		U
Air Particulate	8/10/2018 20:59	Silver-108m	pCi/m3	5.97E-05	3.86E-04		U
Air Particulate	8/10/2018 20:59	Silver-110m	pCi/m3	4.83E-05	7.43E-04		U
Air Particulate	8/10/2018 20:59	Thorium-228	pCi/m3	4.29E-04	8.33E-04		U

Air Particulate	8/10/2018 20:59	Zinc-65	pCi/m3	-1.23E-04	1.27E-03		U
Air Particulate	8/10/2018 20:59	Zirconium-95	pCi/m3	-3.71E-04	2.05E-03		U
Air Particulate	11/16/2018 20:22	BETA	pCi/m3	6.22E-02	3.18E-03	1.00E-02	
Air Particulate	11/23/2018 21:31	BETA	pCi/m3	4.79E-02	3.62E-03	1.00E-02	
Air Particulate	11/30/2018 21:20	BETA	pCi/m3	3.50E-02	2.91E-03	1.00E-02	
Air Particulate	12/7/2018 20:45	BETA	pCi/m3	4.85E-02	3.30E-03	1.00E-02	
Air Particulate	12/14/2018 21:45	BETA	pCi/m3	3.83E-02	3.28E-03	1.00E-02	
Air Particulate	12/21/2018 22:06	BETA	pCi/m3	2.51E-02	2.98E-03	1.00E-02	
Air Particulate	12/28/2018 20:53	BETA	pCi/m3	4.26E-02	3.56E-03	1.00E-02	
Air Particulate	11/9/2018 20:43	Actinium-228	pCi/m3	-9.22E-06	2.59E-03		U
Air Particulate	11/9/2018 20:43	Antimony-124	pCi/m3	-5.12E-04	2.31E-03		U
Air Particulate	11/9/2018 20:43	Antimony-125	pCi/m3	-6.57E-04	1.10E-03		U
Air Particulate	11/9/2018 20:43	Barium-140	pCi/m3	1.48E-03	1.04E-02		U
Air Particulate	11/9/2018 20:43	Beryllium-7	pCi/m3	9.54E-02	6.08E-03		
Air Particulate	11/9/2018 20:43	Cerium-141	pCi/m3	-1.89E-04	1.11E-03		U
Air Particulate	11/9/2018 20:43	Cerium-144	pCi/m3	-7.11E-04	2.34E-03		U
Air Particulate	11/9/2018 20:43	Cesium-134	pCi/m3	-2.51E-05	5.23E-04	5.00E-02	U
Air Particulate	11/9/2018 20:43	Cesium-137	pCi/m3	-1.14E-04	5.42E-04	6.00E-02	U
Air Particulate	11/9/2018 20:43	Cobalt-57	pCi/m3	-3.45E-06	3.23E-04		U
Air Particulate	11/9/2018 20:43	Cobalt-58	pCi/m3	-2.00E-05	7.46E-04		U
Air Particulate	11/9/2018 20:43	Cobalt-60	pCi/m3	-7.51E-06	6.31E-04		U
Air Particulate	11/9/2018 20:43	Iodine-131	pCi/m3	1.17E-03	7.30E-03		U
Air Particulate	11/9/2018 20:43	Iron-59	pCi/m3	-6.54E-04	1.08E-03		U
Air Particulate	11/9/2018 20:43	Lanthanum-140	pCi/m3	-1.87E-03	2.61E-03		U
Air Particulate	11/9/2018 20:43	Manganese-54	pCi/m3	8.57E-04	4.72E-04		UI
Air Particulate	11/9/2018 20:43	Niobium-95	pCi/m3	-5.27E-05	7.01E-04		U
Air Particulate	11/9/2018 20:43	Potassium-40	pCi/m3	4.67E-03	5.37E-03		U
Air Particulate	11/9/2018 20:43	Ruthenium-103	pCi/m3	-2.83E-05	6.98E-04		U
Air Particulate	11/9/2018 20:43	Ruthenium-106	pCi/m3	-2.01E-03	4.65E-03		U
Air Particulate	11/9/2018 20:43	Selenium-75	pCi/m3	1.89E-04	7.03E-04		U
Air Particulate	11/9/2018 20:43	Silver-108m	pCi/m3	6.55E-05	4.29E-04		U
Air Particulate	11/9/2018 20:43	Silver-110m	pCi/m3	-2.05E-05	8.68E-04		U
Air Particulate	11/9/2018 20:43	Thorium-228	pCi/m3	-2.96E-04	9.93E-04		U
Air Particulate	11/9/2018 20:43	Zinc-65	pCi/m3	3.71E-04	1.54E-03		U
Air Particulate	11/9/2018 20:43	Zirconium-95	pCi/m3	-4.77E-04	1.29E-03		U

Notes:

1. LLDs are a-priori values.
2. MDCs are calculated a-posteriori values.
3. Gamma spectroscopy analysis results are calculated from a measurement using only one gamma energy

4. Air sample volumes are received in units of ft3. GEL converts the units and reports them as m3.

QUALIFIERS:

U Target isotope was analyzed for but not detected above the MDC or LLD.
UI Uncertain identification for gamma spectroscopy.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager f
M Reported result is less than the LLD and greater than the MDC.
DL DL MDC > LLD.

Sample Data For: "A-6"

Matrix	Collect Date	Parmname	Units	Result	MDC	LLD	Qualifier
Air Particulate	1/5/2018 22:14	BETA	pCi/m3	5.83E-02	2.38E-03	1.00E-02	
Air Particulate	1/12/2018 21:04	BETA	pCi/m3	4.51E-02	2.31E-03	1.00E-02	
Air Particulate	1/19/2018 8:54	BETA	pCi/m3	4.54E-02	2.58E-03	1.00E-02	
Air Particulate	1/26/2018 9:04	BETA	pCi/m3	2.79E-02	1.94E-03	1.00E-02	
Air Particulate	2/2/2018 20:55	BETA	pCi/m3	4.42E-02	2.49E-03	1.00E-02	
Air Particulate	2/9/2018 21:34	BETA	pCi/m3	5.52E-02	2.36E-03	1.00E-02	
Air Particulate	2/16/2018 21:08	BETA	pCi/m3	4.27E-02	2.58E-03	1.00E-02	
Air Particulate	2/23/2018 20:25	BETA	pCi/m3	2.48E-02	2.66E-03	1.00E-02	
Air Particulate	3/2/2018 22:17	BETA	pCi/m3	3.62E-02	2.91E-03	1.00E-02	
Air Particulate	3/9/2018 22:54	BETA	pCi/m3	4.20E-02	2.63E-03	1.00E-02	
Air Particulate	3/16/2018 21:41	BETA	pCi/m3	3.48E-02	2.34E-03	1.00E-02	
Air Particulate	3/23/2018 22:47	BETA	pCi/m3	3.26E-02	2.83E-03	1.00E-02	
Air Particulate	3/30/2018 22:33	BETA	pCi/m3	4.63E-02	4.14E-03	1.00E-02	
Air Particulate	4/6/2018 20:35	BETA	pCi/m3	3.66E-02	3.02E-03	1.00E-02	
Air Particulate	4/13/2018 19:52	BETA	pCi/m3	4.87E-02	3.81E-03	1.00E-02	
Air Particulate	4/20/2018 20:05	BETA	pCi/m3	2.88E-02	2.99E-03	1.00E-02	
Air Particulate	4/27/2018 20:12	BETA	pCi/m3	4.90E-02	3.65E-03	1.00E-02	
Air Particulate	5/4/2018 20:50	BETA	pCi/m3	4.21E-02	2.78E-03	1.00E-02	
Air Particulate	5/11/2018 21:15	BETA	pCi/m3	4.85E-02	3.03E-03	1.00E-02	
Air Particulate	2/9/2018 16:41	Actinium-228	pCi/m3	1.86E-03	2.97E-03		U
Air Particulate	2/9/2018 16:41	Antimony-124	pCi/m3	-1.35E-04	4.11E-03		U
Air Particulate	2/9/2018 16:41	Antimony-125	pCi/m3	4.80E-04	1.35E-03		U
Air Particulate	2/9/2018 16:41	Barium-140	pCi/m3	2.68E-02	3.89E-01		U
Air Particulate	2/9/2018 16:41	Beryllium-7	pCi/m3	1.66E-01	1.15E-02		
Air Particulate	2/9/2018 16:41	Cerium-141	pCi/m3	-1.05E-03	4.24E-03		U
Air Particulate	2/9/2018 16:41	Cerium-144	pCi/m3	-3.64E-04	2.46E-03		U
Air Particulate	2/9/2018 16:41	Cesium-134	pCi/m3	2.95E-04	6.75E-04	5.00E-02	U
Air Particulate	2/9/2018 16:41	Cesium-137	pCi/m3	1.74E-04	4.97E-04	6.00E-02	U
Air Particulate	2/9/2018 16:41	Cobalt-57	pCi/m3	1.21E-04	3.46E-04		U
Air Particulate	2/9/2018 16:41	Cobalt-58	pCi/m3	-9.61E-05	1.07E-03		U
Air Particulate	2/9/2018 16:41	Cobalt-60	pCi/m3	-1.78E-04	4.81E-04		U

Air Particulate	2/9/2018 16:41	Iodine-131	pCi/m3	4.81E-01	0.00E+00		UI
Air Particulate	2/9/2018 16:41	Iron-59	pCi/m3	9.95E-04	5.40E-03		U
Air Particulate	2/9/2018 16:41	Lanthanum-140	pCi/m3	-1.20E-01	8.79E-02		U
Air Particulate	2/9/2018 16:41	Manganese-54	pCi/m3	1.89E-05	6.17E-04		U
Air Particulate	2/9/2018 16:41	Niobium-95	pCi/m3	-2.86E-05	1.32E-03		U
Air Particulate	2/9/2018 16:41	Potassium-40	pCi/m3	1.09E-02	3.52E-03		
Air Particulate	2/9/2018 16:41	Ruthenium-103	pCi/m3	3.48E-04	2.37E-03		U
Air Particulate	2/9/2018 16:41	Ruthenium-106	pCi/m3	9.27E-04	5.72E-03		U
Air Particulate	2/9/2018 16:41	Selenium-75	pCi/m3	6.42E-05	9.37E-04		U
Air Particulate	2/9/2018 16:41	Silver-108m	pCi/m3	-9.31E-05	3.15E-04		U
Air Particulate	2/9/2018 16:41	Silver-110m	pCi/m3	5.84E-05	8.20E-04		U
Air Particulate	2/9/2018 16:41	Thorium-228	pCi/m3	7.18E-05	8.81E-04		U
Air Particulate	2/9/2018 16:41	Zinc-65	pCi/m3	8.50E-06	1.57E-03		U
Air Particulate	2/9/2018 16:41	Zirconium-95	pCi/m3	5.47E-04	2.81E-03		U
Air Particulate	5/18/2018 20:31	BETA	pCi/m3	3.95E-02	2.89E-03	1.00E-02	
Air Particulate	5/25/2018 20:40	BETA	pCi/m3	3.30E-02	2.84E-03	1.00E-02	
Air Particulate	6/1/2018 20:45	BETA	pCi/m3	3.66E-02	2.79E-03	1.00E-02	
Air Particulate	6/8/2018 20:36	BETA	pCi/m3	5.86E-02	3.61E-03	1.00E-02	
Air Particulate	6/15/2018 20:37	BETA	pCi/m3	2.78E-02	3.63E-03	1.00E-02	
Air Particulate	6/22/2018 21:43	BETA	pCi/m3	2.57E-02	2.79E-03	1.00E-02	
Air Particulate	6/29/2018 21:00	BETA	pCi/m3	3.96E-02	2.78E-03	1.00E-02	
Air Particulate	7/6/2018 19:37	BETA	pCi/m3	2.53E-02	3.73E-03	1.00E-02	
Air Particulate	7/13/2018 20:19	BETA	pCi/m3	4.27E-02	3.01E-03	1.00E-02	
Air Particulate	7/20/2018 20:25	BETA	pCi/m3	4.73E-02	2.77E-03	1.00E-02	
Air Particulate	7/27/2018 20:18	BETA	pCi/m3	5.38E-02	2.89E-03	1.00E-02	
Air Particulate	8/3/2018 20:32	BETA	pCi/m3	4.36E-02	3.55E-03	1.00E-02	
Air Particulate	8/10/2018 20:39	BETA	pCi/m3	2.81E-02	3.67E-03	1.00E-02	
Air Particulate	5/11/2018 23:28	Actinium-228	pCi/m3	-3.32E-04	3.12E-03		U
Air Particulate	5/11/2018 23:28	Antimony-124	pCi/m3	-1.55E-04	6.57E-03		U
Air Particulate	5/11/2018 23:28	Antimony-125	pCi/m3	-2.89E-04	1.67E-03		U
Air Particulate	5/11/2018 23:28	Barium-140	pCi/m3	2.05E-01	8.23E-01		U
Air Particulate	5/11/2018 23:28	Beryllium-7	pCi/m3	1.93E-01	1.06E-02		
Air Particulate	5/11/2018 23:28	Cerium-141	pCi/m3	-2.37E-03	6.81E-03		U
Air Particulate	5/11/2018 23:28	Cerium-144	pCi/m3	7.14E-04	3.84E-03		U
Air Particulate	5/11/2018 23:28	Cesium-134	pCi/m3	3.65E-04	8.74E-04	5.00E-02	U
Air Particulate	5/11/2018 23:28	Cesium-137	pCi/m3	-3.31E-05	7.97E-04	6.00E-02	U
Air Particulate	5/11/2018 23:28	Cobalt-57	pCi/m3	9.07E-05	4.64E-04		U
Air Particulate	5/11/2018 23:28	Cobalt-58	pCi/m3	6.10E-04	1.85E-03		U
Air Particulate	5/11/2018 23:28	Cobalt-60	pCi/m3	3.18E-04	1.24E-03		U
Air Particulate	5/11/2018 23:28	Iodine-131	pCi/m3	3.57E+00	0.00E+00		UI
Air Particulate	5/11/2018 23:28	Iron-59	pCi/m3	4.67E-03	9.68E-03		U
Air Particulate	5/11/2018 23:28	Lanthanum-140	pCi/m3	1.69E-02	4.20E-01		U
Air Particulate	5/11/2018 23:28	Manganese-54	pCi/m3	1.76E-04	8.00E-04		U
Air Particulate	5/11/2018 23:28	Niobium-95	pCi/m3	1.02E-04	1.78E-03		U

Air Particulate	5/11/2018 23:28	Potassium-40	pCi/m3	6.96E-03	9.41E-03		U
Air Particulate	5/11/2018 23:28	Ruthenium-103	pCi/m3	5.10E-04	4.43E-03		U
Air Particulate	5/11/2018 23:28	Ruthenium-106	pCi/m3	1.56E-05	5.43E-03		U
Air Particulate	5/11/2018 23:28	Selenium-75	pCi/m3	5.54E-05	1.49E-03		U
Air Particulate	5/11/2018 23:28	Silver-108m	pCi/m3	-5.31E-05	4.98E-04		U
Air Particulate	5/11/2018 23:28	Silver-110m	pCi/m3	-1.89E-04	1.17E-03		U
Air Particulate	5/11/2018 23:28	Thorium-228	pCi/m3	3.19E-04	1.13E-03		U
Air Particulate	5/11/2018 23:28	Zinc-65	pCi/m3	-3.88E-04	1.89E-03		U
Air Particulate	5/11/2018 23:28	Zirconium-95	pCi/m3	-3.27E-03	2.31E-03		U
Air Particulate	8/17/2018 20:20	BETA	pCi/m3	3.64E-02	2.87E-03	1.00E-02	
Air Particulate	8/24/2018 20:55	BETA	pCi/m3	4.42E-02	2.88E-03	1.00E-02	
Air Particulate	8/31/2018 20:42	BETA	pCi/m3	2.07E-02	2.88E-03	1.00E-02	
Air Particulate	9/7/2018 20:42	BETA	pCi/m3	2.12E-02	2.83E-03	1.00E-02	
Air Particulate	9/14/2018 20:44	BETA	pCi/m3	2.12E-02	2.96E-03	1.00E-02	
Air Particulate	9/21/2018 20:25	BETA	pCi/m3	2.30E-02	3.79E-03	1.00E-02	
Air Particulate	9/28/2018 20:51	BETA	pCi/m3	2.60E-02	2.96E-03	1.00E-02	
Air Particulate	10/5/2018 20:59	BETA	pCi/m3	2.50E-02	2.97E-03	1.00E-02	
Air Particulate	10/12/2018 20:34	BETA	pCi/m3	2.68E-02	3.74E-03	1.00E-02	
Air Particulate	10/19/2018 20:13	BETA	pCi/m3	3.89E-02	2.96E-03	1.00E-02	
Air Particulate	10/26/2018 21:05	BETA	pCi/m3	4.46E-02	3.26E-03	1.00E-02	
Air Particulate	11/2/2018 20:51	BETA	pCi/m3	4.46E-02	3.20E-03	1.00E-02	
Air Particulate	11/9/2018 20:04	BETA	pCi/m3	4.06E-02	3.30E-03	1.00E-02	
Air Particulate	8/10/2018 21:57	Actinium-228	pCi/m3	6.30E-04	2.90E-03		U
Air Particulate	8/10/2018 21:57	Antimony-124	pCi/m3	-1.44E-03	2.71E-03		U
Air Particulate	8/10/2018 21:57	Antimony-125	pCi/m3	4.25E-04	2.11E-03		U
Air Particulate	8/10/2018 21:57	Barium-140	pCi/m3	7.52E-02	9.88E-01		U
Air Particulate	8/10/2018 21:57	Beryllium-7	pCi/m3	9.83E-02	1.72E-02		
Air Particulate	8/10/2018 21:57	Cerium-141	pCi/m3	-4.00E-03	7.92E-03		U
Air Particulate	8/10/2018 21:57	Cerium-144	pCi/m3	7.78E-04	4.10E-03		U
Air Particulate	8/10/2018 21:57	Cesium-134	pCi/m3	2.61E-05	6.31E-04	5.00E-02	U
Air Particulate	8/10/2018 21:57	Cesium-137	pCi/m3	1.60E-04	7.57E-04	6.00E-02	U
Air Particulate	8/10/2018 21:57	Cobalt-57	pCi/m3	-5.17E-05	5.21E-04		U
Air Particulate	8/10/2018 21:57	Cobalt-58	pCi/m3	-4.45E-05	1.68E-03		U
Air Particulate	8/10/2018 21:57	Cobalt-60	pCi/m3	-7.91E-06	8.54E-04		U
Air Particulate	8/10/2018 21:57	Iodine-131	pCi/m3	-3.21E+00	0.00E+00		U
Air Particulate	8/10/2018 21:57	Iron-59	pCi/m3	-2.66E-03	6.02E-03		U
Air Particulate	8/10/2018 21:57	Lanthanum-140	pCi/m3	5.69E-02	3.75E-01		U
Air Particulate	8/10/2018 21:57	Manganese-54	pCi/m3	1.11E-04	9.00E-04		U
Air Particulate	8/10/2018 21:57	Niobium-95	pCi/m3	1.39E-03	2.47E-03		U
Air Particulate	8/10/2018 21:57	Potassium-40	pCi/m3	2.24E-02	6.43E-03		
Air Particulate	8/10/2018 21:57	Ruthenium-103	pCi/m3	-4.47E-04	3.99E-03		U
Air Particulate	8/10/2018 21:57	Ruthenium-106	pCi/m3	-3.83E-04	6.53E-03		U
Air Particulate	8/10/2018 21:57	Selenium-75	pCi/m3	2.47E-04	1.53E-03		U
Air Particulate	8/10/2018 21:57	Silver-108m	pCi/m3	-6.13E-05	4.40E-04		U

Air Particulate	8/10/2018 21:57	Silver-110m	pCi/m3	-8.32E-04	6.84E-04		U
Air Particulate	8/10/2018 21:57	Thorium-228	pCi/m3	-1.98E-04	1.08E-03		U
Air Particulate	8/10/2018 21:57	Zinc-65	pCi/m3	-9.86E-04	1.82E-03		U
Air Particulate	8/10/2018 21:57	Zirconium-95	pCi/m3	-2.21E-04	4.02E-03		U
Air Particulate	11/16/2018 20:47	BETA	pCi/m3	7.02E-02	3.27E-03	1.00E-02	
Air Particulate	11/23/2018 21:59	BETA	pCi/m3	3.62E-02	3.08E-03	1.00E-02	
Air Particulate	11/30/2018 21:47	BETA	pCi/m3	2.95E-02	3.59E-03	1.00E-02	
Air Particulate	12/7/2018 21:10	BETA	pCi/m3	4.67E-02	3.52E-03	1.00E-02	
Air Particulate	12/14/2018 22:15	BETA	pCi/m3	3.53E-02	2.92E-03	1.00E-02	
Air Particulate	12/21/2018 22:35	BETA	pCi/m3	2.81E-02	3.33E-03	1.00E-02	
Air Particulate	12/28/2018 21:19	BETA	pCi/m3	3.92E-02	3.34E-03	1.00E-02	
Air Particulate	11/9/2018 21:26	Actinium-228	pCi/m3	1.82E-04	2.05E-03		U
Air Particulate	11/9/2018 21:26	Antimony-124	pCi/m3	5.00E-04	1.96E-03		U
Air Particulate	11/9/2018 21:26	Antimony-125	pCi/m3	-3.20E-04	9.29E-04		U
Air Particulate	11/9/2018 21:26	Barium-140	pCi/m3	5.04E-03	1.07E-02		U
Air Particulate	11/9/2018 21:26	Beryllium-7	pCi/m3	8.34E-02	4.53E-03		
Air Particulate	11/9/2018 21:26	Cerium-141	pCi/m3	2.50E-04	8.09E-04		U
Air Particulate	11/9/2018 21:26	Cerium-144	pCi/m3	5.45E-04	2.25E-03		U
Air Particulate	11/9/2018 21:26	Cesium-134	pCi/m3	-4.88E-05	5.01E-04	5.00E-02	U
Air Particulate	11/9/2018 21:26	Cesium-137	pCi/m3	-6.03E-05	4.93E-04	6.00E-02	U
Air Particulate	11/9/2018 21:26	Cobalt-57	pCi/m3	9.78E-05	2.75E-04		U
Air Particulate	11/9/2018 21:26	Cobalt-58	pCi/m3	1.73E-05	5.61E-04		U
Air Particulate	11/9/2018 21:26	Cobalt-60	pCi/m3	1.23E-04	5.45E-04		U
Air Particulate	11/9/2018 21:26	Iodine-131	pCi/m3	-3.21E-03	5.07E-03		U
Air Particulate	11/9/2018 21:26	Iron-59	pCi/m3	8.02E-05	1.07E-03		U
Air Particulate	11/9/2018 21:26	Lanthanum-140	pCi/m3	-8.60E-04	2.94E-03		U
Air Particulate	11/9/2018 21:26	Manganese-54	pCi/m3	-7.82E-05	4.77E-04		U
Air Particulate	11/9/2018 21:26	Niobium-95	pCi/m3	1.95E-05	6.58E-04		U
Air Particulate	11/9/2018 21:26	Potassium-40	pCi/m3	1.69E-02	6.70E-03		
Air Particulate	11/9/2018 21:26	Ruthenium-103	pCi/m3	-1.87E-04	5.80E-04		U
Air Particulate	11/9/2018 21:26	Ruthenium-106	pCi/m3	-4.47E-04	4.41E-03		U
Air Particulate	11/9/2018 21:26	Selenium-75	pCi/m3	1.11E-04	6.58E-04		U
Air Particulate	11/9/2018 21:26	Silver-108m	pCi/m3	-7.57E-05	3.19E-04		U
Air Particulate	11/9/2018 21:26	Silver-110m	pCi/m3	1.42E-04	7.57E-04		U
Air Particulate	11/9/2018 21:26	Thorium-228	pCi/m3	-2.94E-04	6.90E-04		U
Air Particulate	11/9/2018 21:26	Zinc-65	pCi/m3	-4.65E-04	1.11E-03		U
Air Particulate	11/9/2018 21:26	Zirconium-95	pCi/m3	-1.79E-04	1.10E-03		U

Notes:

1. LLDs are a-priori values.

2. MDCs are calculated a-posteriori values.
3. Gamma spectroscopy analysis results are calculated from a measurement using only one gamma energy
4. Air sample volumes are received in units of ft3. GEL converts the units and reports them as m3.

QUALIFIERS:

U Target isotope was analyzed for but not detected above the MDC or LLD.
UI Uncertain identification for gamma spectroscopy.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager f
M Reported result is less than the LLD and greater than the MDC.
DL DL MDC > LLD.

Sample Data For: "A-7"

Matrix	Collect Date	Parmname	Units	Result	MDC	LLD	Qualifier
Air Particulate	1/5/2018 21:44	BETA	pCi/m3	6.30E-02	3.61E-03	1.00E-02	
Air Particulate	1/12/2018 20:32	BETA	pCi/m3	3.81E-02	2.31E-03	1.00E-02	
Air Particulate	1/19/2018 8:34	BETA	pCi/m3	3.80E-02	2.58E-03	1.00E-02	
Air Particulate	1/26/2018 8:39	BETA	pCi/m3	2.83E-02	1.94E-03	1.00E-02	
Air Particulate	2/2/2018 20:23	BETA	pCi/m3	4.32E-02	2.72E-03	1.00E-02	
Air Particulate	2/9/2018 21:11	BETA	pCi/m3	5.28E-02	2.59E-03	1.00E-02	
Air Particulate	2/16/2018 20:44	BETA	pCi/m3	3.62E-02	2.75E-03	1.00E-02	
Air Particulate	2/23/2018 19:59	BETA	pCi/m3	2.15E-02	2.36E-03	1.00E-02	
Air Particulate	3/2/2018 20:46	BETA	pCi/m3	3.73E-02	2.59E-03	1.00E-02	
Air Particulate	3/9/2018 21:06	BETA	pCi/m3	3.75E-02	2.34E-03	1.00E-02	
Air Particulate	3/16/2018 20:59	BETA	pCi/m3	3.80E-02	2.33E-03	1.00E-02	
Air Particulate	3/23/2018 22:55	BETA	pCi/m3	4.18E-02	2.88E-03	1.00E-02	
Air Particulate	3/30/2018 22:42	BETA	pCi/m3	3.58E-02	3.85E-03	1.00E-02	
Air Particulate	4/6/2018 20:14	BETA	pCi/m3	3.93E-02	3.17E-03	1.00E-02	
Air Particulate	4/13/2018 19:24	BETA	pCi/m3	3.68E-02	3.81E-03	1.00E-02	
Air Particulate	4/20/2018 19:34	BETA	pCi/m3	2.89E-02	2.93E-03	1.00E-02	
Air Particulate	4/27/2018 19:49	BETA	pCi/m3	3.92E-02	2.88E-03	1.00E-02	
Air Particulate	5/4/2018 20:11	BETA	pCi/m3	4.62E-02	3.10E-03	1.00E-02	
Air Particulate	5/11/2018 20:32	BETA	pCi/m3	5.23E-02	2.89E-03	1.00E-02	
Air Particulate	2/9/2018 22:46	Actinium-228	pCi/m3	8.36E-05	2.83E-03		U
Air Particulate	2/9/2018 22:46	Antimony-124	pCi/m3	9.93E-05	4.98E-03		U
Air Particulate	2/9/2018 22:46	Antimony-125	pCi/m3	4.31E-04	1.50E-03		U
Air Particulate	2/9/2018 22:46	Barium-140	pCi/m3	1.34E-01	5.10E-01		U
Air Particulate	2/9/2018 22:46	Beryllium-7	pCi/m3	1.50E-01	1.32E-02		
Air Particulate	2/9/2018 22:46	Cerium-141	pCi/m3	-4.48E-03	3.60E-03		U
Air Particulate	2/9/2018 22:46	Cerium-144	pCi/m3	1.27E-03	2.80E-03		U
Air Particulate	2/9/2018 22:46	Cesium-134	pCi/m3	2.93E-06	6.79E-04	5.00E-02	U
Air Particulate	2/9/2018 22:46	Cesium-137	pCi/m3	-7.09E-05	3.74E-04	6.00E-02	U
Air Particulate	2/9/2018 22:46	Cobalt-57	pCi/m3	1.29E-04	3.44E-04		U

Air Particulate	2/9/2018 22:46	Cobalt-58	pCi/m3	2.63E-04	1.91E-03		U
Air Particulate	2/9/2018 22:46	Cobalt-60	pCi/m3	-3.70E-06	5.61E-04		U
Air Particulate	2/9/2018 22:46	Iodine-131	pCi/m3	2.01E-01	0.00E+00		UI
Air Particulate	2/9/2018 22:46	Iron-59	pCi/m3	1.00E-03	5.08E-03		U
Air Particulate	2/9/2018 22:46	Lanthanum-140	pCi/m3	-6.06E-02	2.24E-01		U
Air Particulate	2/9/2018 22:46	Manganese-54	pCi/m3	3.80E-04	8.29E-04		U
Air Particulate	2/9/2018 22:46	Niobium-95	pCi/m3	3.02E-04	1.64E-03		U
Air Particulate	2/9/2018 22:46	Potassium-40	pCi/m3	1.08E-02	4.62E-03		UI
Air Particulate	2/9/2018 22:46	Ruthenium-103	pCi/m3	9.76E-04	2.79E-03		U
Air Particulate	2/9/2018 22:46	Ruthenium-106	pCi/m3	1.15E-03	6.06E-03		U
Air Particulate	2/9/2018 22:46	Selenium-75	pCi/m3	-4.18E-04	7.80E-04		U
Air Particulate	2/9/2018 22:46	Silver-108m	pCi/m3	-1.97E-04	4.44E-04		U
Air Particulate	2/9/2018 22:46	Silver-110m	pCi/m3	8.92E-05	1.12E-03		U
Air Particulate	2/9/2018 22:46	Thorium-228	pCi/m3	3.06E-05	8.99E-04		U
Air Particulate	2/9/2018 22:46	Zinc-65	pCi/m3	-3.97E-04	1.38E-03		U
Air Particulate	2/9/2018 22:46	Zirconium-95	pCi/m3	-4.95E-05	2.87E-03		U
Air Particulate	5/18/2018 20:02	BETA	pCi/m3	3.69E-02	3.02E-03	1.00E-02	
Air Particulate	5/25/2018 20:14	BETA	pCi/m3	3.14E-02	3.08E-03	1.00E-02	
Air Particulate	6/1/2018 20:12	BETA	pCi/m3	4.03E-02	2.93E-03	1.00E-02	
Air Particulate	6/8/2018 19:52	BETA	pCi/m3	4.34E-02	2.84E-03	1.00E-02	
Air Particulate	6/15/2018 20:02	BETA	pCi/m3	2.53E-02	2.96E-03	1.00E-02	
Air Particulate	6/22/2018 21:09	BETA	pCi/m3	3.31E-02	3.59E-03	1.00E-02	
Air Particulate	6/29/2018 20:56	BETA	pCi/m3	3.85E-02	2.87E-03	1.00E-02	
Air Particulate	7/6/2018 19:43	BETA	pCi/m3	2.87E-02	2.80E-03	1.00E-02	
Air Particulate	7/13/2018 19:52	BETA	pCi/m3	4.17E-02	2.90E-03	1.00E-02	
Air Particulate	7/20/2018 19:57	BETA	pCi/m3	5.71E-02	3.49E-03	1.00E-02	
Air Particulate	7/27/2018 19:54	BETA	pCi/m3	6.62E-02	2.84E-03	1.00E-02	
Air Particulate	8/3/2018 20:07	BETA	pCi/m3	4.92E-02	2.79E-03	1.00E-02	
Air Particulate	8/10/2018 20:14	BETA	pCi/m3	2.68E-02	2.82E-03	1.00E-02	
Air Particulate	5/11/2018 23:27	Actinium-228	pCi/m3	8.52E-05	1.87E-03		U
Air Particulate	5/11/2018 23:27	Antimony-124	pCi/m3	-5.39E-04	4.59E-03		U
Air Particulate	5/11/2018 23:27	Antimony-125	pCi/m3	4.40E-04	1.19E-03		U
Air Particulate	5/11/2018 23:27	Barium-140	pCi/m3	1.58E-01	6.58E-01		U
Air Particulate	5/11/2018 23:27	Beryllium-7	pCi/m3	1.68E-01	1.31E-02		
Air Particulate	5/11/2018 23:27	Cerium-141	pCi/m3	-9.63E-04	4.73E-03		U
Air Particulate	5/11/2018 23:27	Cerium-144	pCi/m3	5.25E-04	2.41E-03		U
Air Particulate	5/11/2018 23:27	Cesium-134	pCi/m3	-1.18E-04	4.31E-04	5.00E-02	U
Air Particulate	5/11/2018 23:27	Cesium-137	pCi/m3	1.42E-04	3.89E-04	6.00E-02	U
Air Particulate	5/11/2018 23:27	Cobalt-57	pCi/m3	1.65E-04	2.84E-04		U
Air Particulate	5/11/2018 23:27	Cobalt-58	pCi/m3	-2.46E-04	1.07E-03		U
Air Particulate	5/11/2018 23:27	Cobalt-60	pCi/m3	4.29E-06	6.50E-04		U
Air Particulate	5/11/2018 23:27	Iodine-131	pCi/m3	-9.43E-01	0.00E+00		U
Air Particulate	5/11/2018 23:27	Iron-59	pCi/m3	2.03E-03	5.63E-03		U
Air Particulate	5/11/2018 23:27	Lanthanum-140	pCi/m3	8.49E-02	2.92E-01		U

Air Particulate	5/11/2018 23:27	Manganese-54	pCi/m3	2.17E-04	5.20E-04		U
Air Particulate	5/11/2018 23:27	Niobium-95	pCi/m3	7.64E-05	1.42E-03		U
Air Particulate	5/11/2018 23:27	Potassium-40	pCi/m3	1.22E-02	5.10E-03		UI
Air Particulate	5/11/2018 23:27	Ruthenium-103	pCi/m3	1.24E-03	1.99E-03		U
Air Particulate	5/11/2018 23:27	Ruthenium-106	pCi/m3	9.92E-04	4.05E-03		U
Air Particulate	5/11/2018 23:27	Selenium-75	pCi/m3	-2.74E-04	8.45E-04		U
Air Particulate	5/11/2018 23:27	Silver-108m	pCi/m3	1.82E-04	3.54E-04		U
Air Particulate	5/11/2018 23:27	Silver-110m	pCi/m3	7.25E-04	8.77E-04		U
Air Particulate	5/11/2018 23:27	Thorium-228	pCi/m3	6.39E-06	6.80E-04		U
Air Particulate	5/11/2018 23:27	Zinc-65	pCi/m3	-2.36E-04	1.41E-03		U
Air Particulate	5/11/2018 23:27	Zirconium-95	pCi/m3	-4.95E-05	2.29E-03		U
Air Particulate	8/17/2018 19:51	BETA	pCi/m3	3.69E-02	2.97E-03	1.00E-02	
Air Particulate	8/24/2018 20:27	BETA	pCi/m3	4.86E-02	2.77E-03	1.00E-02	
Air Particulate	8/31/2018 20:19	BETA	pCi/m3	2.46E-02	3.69E-03	1.00E-02	
Air Particulate	9/7/2018 20:16	BETA	pCi/m3	2.54E-02	3.65E-03	1.00E-02	
Air Particulate	9/14/2018 20:20	BETA	pCi/m3	2.75E-02	3.14E-03	1.00E-02	
Air Particulate	9/21/2018 19:54	BETA	pCi/m3	2.44E-02	3.09E-03	1.00E-02	
Air Particulate	9/28/2018 20:19	BETA	pCi/m3	3.87E-02	3.64E-03	1.00E-02	
Air Particulate	10/5/2018 20:37	BETA	pCi/m3	3.28E-02	2.98E-03	1.00E-02	
Air Particulate	10/12/2018 20:12	BETA	pCi/m3	3.11E-02	2.98E-03	1.00E-02	
Air Particulate	10/19/2018 19:51	BETA	pCi/m3	4.98E-02	3.07E-03	1.00E-02	
Air Particulate	10/26/2018 20:44	BETA	pCi/m3	5.64E-02	2.79E-03	1.00E-02	
Air Particulate	11/2/2018 20:26	BETA	pCi/m3	5.34E-02	2.85E-03	1.00E-02	
Air Particulate	11/9/2018 19:39	BETA	pCi/m3	5.20E-02	2.90E-03	1.00E-02	
Air Particulate	8/10/2018 21:15	Actinium-228	pCi/m3	-2.16E-04	2.96E-03		U
Air Particulate	8/10/2018 21:15	Antimony-124	pCi/m3	1.86E-03	7.98E-03		U
Air Particulate	8/10/2018 21:15	Antimony-125	pCi/m3	3.09E-04	1.48E-03		U
Air Particulate	8/10/2018 21:15	Barium-140	pCi/m3	7.18E-03	1.05E+00		U
Air Particulate	8/10/2018 21:15	Beryllium-7	pCi/m3	1.39E-01	1.96E-02		
Air Particulate	8/10/2018 21:15	Cerium-141	pCi/m3	1.48E-03	6.82E-03		U
Air Particulate	8/10/2018 21:15	Cerium-144	pCi/m3	-2.04E-04	2.86E-03		U
Air Particulate	8/10/2018 21:15	Cesium-134	pCi/m3	1.64E-04	8.25E-04	5.00E-02	U
Air Particulate	8/10/2018 21:15	Cesium-137	pCi/m3	3.08E-05	7.72E-04	6.00E-02	U
Air Particulate	8/10/2018 21:15	Cobalt-57	pCi/m3	-1.19E-04	3.81E-04		U
Air Particulate	8/10/2018 21:15	Cobalt-58	pCi/m3	-7.10E-04	1.07E-03		U
Air Particulate	8/10/2018 21:15	Cobalt-60	pCi/m3	2.61E-04	1.05E-03		U
Air Particulate	8/10/2018 21:15	Iodine-131	pCi/m3	5.74E+00	0.00E+00		UI
Air Particulate	8/10/2018 21:15	Iron-59	pCi/m3	3.40E-03	9.78E-03		U
Air Particulate	8/10/2018 21:15	Lanthanum-140	pCi/m3	1.55E-01	5.83E-01		U
Air Particulate	8/10/2018 21:15	Manganese-54	pCi/m3	5.20E-05	6.86E-04		U
Air Particulate	8/10/2018 21:15	Niobium-95	pCi/m3	-1.36E-04	2.29E-03		U
Air Particulate	8/10/2018 21:15	Potassium-40	pCi/m3	1.29E-02	8.77E-03		UI
Air Particulate	8/10/2018 21:15	Ruthenium-103	pCi/m3	-2.07E-04	4.05E-03		U
Air Particulate	8/10/2018 21:15	Ruthenium-106	pCi/m3	-9.92E-04	6.58E-03		U

Air Particulate	8/10/2018 21:15	Selenium-75	pCi/m3	5.78E-04	1.25E-03		U
Air Particulate	8/10/2018 21:15	Silver-108m	pCi/m3	9.47E-05	4.79E-04		U
Air Particulate	8/10/2018 21:15	Silver-110m	pCi/m3	-2.01E-05	1.28E-03		U
Air Particulate	8/10/2018 21:15	Thorium-228	pCi/m3	6.55E-04	7.20E-04		U
Air Particulate	8/10/2018 21:15	Zinc-65	pCi/m3	1.53E-03	2.59E-03		U
Air Particulate	8/10/2018 21:15	Zirconium-95	pCi/m3	-3.12E-04	3.60E-03		U
Air Particulate	11/16/2018 20:26	BETA	pCi/m3	5.82E-02	2.89E-03	1.00E-02	
Air Particulate	11/23/2018 21:37	BETA	pCi/m3	5.21E-02	3.49E-03	1.00E-02	
Air Particulate	11/30/2018 21:25	BETA	pCi/m3	3.67E-02	3.02E-03	1.00E-02	
Air Particulate	12/7/2018 20:49	BETA	pCi/m3	5.29E-02	2.95E-03	1.00E-02	
Air Particulate	12/14/2018 21:50	BETA	pCi/m3	5.55E-02	3.49E-03	1.00E-02	
Air Particulate	12/21/2018 22:12	BETA	pCi/m3	3.07E-02	3.34E-03	1.00E-02	
Air Particulate	12/28/2018 20:59	BETA	pCi/m3	4.68E-02	3.33E-03	1.00E-02	
Air Particulate	11/9/2018 20:58	Actinium-228	pCi/m3	-5.70E-04	2.36E-03		U
Air Particulate	11/9/2018 20:58	Antimony-124	pCi/m3	3.84E-04	1.86E-03		U
Air Particulate	11/9/2018 20:58	Antimony-125	pCi/m3	-9.43E-05	1.39E-03		U
Air Particulate	11/9/2018 20:58	Barium-140	pCi/m3	6.34E-04	1.15E-02		U
Air Particulate	11/9/2018 20:58	Beryllium-7	pCi/m3	1.10E-01	6.42E-03		
Air Particulate	11/9/2018 20:58	Cerium-141	pCi/m3	3.90E-04	1.24E-03		U
Air Particulate	11/9/2018 20:58	Cerium-144	pCi/m3	2.25E-04	2.51E-03		U
Air Particulate	11/9/2018 20:58	Cesium-134	pCi/m3	-1.26E-04	5.72E-04	5.00E-02	U
Air Particulate	11/9/2018 20:58	Cesium-137	pCi/m3	4.46E-05	4.07E-04	6.00E-02	U
Air Particulate	11/9/2018 20:58	Cobalt-57	pCi/m3	1.61E-05	3.17E-04		U
Air Particulate	11/9/2018 20:58	Cobalt-58	pCi/m3	-6.51E-05	7.01E-04		U
Air Particulate	11/9/2018 20:58	Cobalt-60	pCi/m3	-2.78E-04	5.80E-04		U
Air Particulate	11/9/2018 20:58	Iodine-131	pCi/m3	-9.32E-04	6.03E-03		U
Air Particulate	11/9/2018 20:58	Iron-59	pCi/m3	-1.81E-04	1.52E-03		U
Air Particulate	11/9/2018 20:58	Lanthanum-140	pCi/m3	-1.10E-03	1.85E-03		U
Air Particulate	11/9/2018 20:58	Manganese-54	pCi/m3	9.77E-05	5.95E-04		U
Air Particulate	11/9/2018 20:58	Niobium-95	pCi/m3	6.45E-05	8.35E-04		U
Air Particulate	11/9/2018 20:58	Potassium-40	pCi/m3	2.12E-03	1.12E-02		U
Air Particulate	11/9/2018 20:58	Ruthenium-103	pCi/m3	1.02E-04	7.64E-04		U
Air Particulate	11/9/2018 20:58	Ruthenium-106	pCi/m3	2.36E-03	6.30E-03		U
Air Particulate	11/9/2018 20:58	Selenium-75	pCi/m3	1.69E-04	7.70E-04		U
Air Particulate	11/9/2018 20:58	Silver-108m	pCi/m3	-9.35E-06	4.12E-04		U
Air Particulate	11/9/2018 20:58	Silver-110m	pCi/m3	-3.68E-04	6.62E-04		U
Air Particulate	11/9/2018 20:58	Thorium-228	pCi/m3	2.10E-04	1.16E-03		U
Air Particulate	11/9/2018 20:58	Zinc-65	pCi/m3	7.08E-05	1.48E-03		U
Air Particulate	11/9/2018 20:58	Zirconium-95	pCi/m3	-2.80E-04	1.21E-03		U

The data obtained from this website is the most accurate possible at the time of your query and based upon your specific inquiry. This data does not replace the Certificates of Analysis provided by GEL. Certificates of Analysis undergo an additional level of review before being sent to the client that is not

Notes:

1. LLDs are a-priori values.
2. MDCs are calculated a-posteriori values.
3. Gamma spectroscopy analysis results are calculated from a measurement using only one gamma energy
4. Air sample volumes are received in units of ft3. GEL converts the units and reports them as m3.

QUALIFIERS:

U Target isotope was analyzed for but not detected above the MDC or LLD.
UI Uncertain identification for gamma spectroscopy.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager f
M Reported result is less than the LLD and greater than the MDC.
DL DL MDC > LLD.

Sample Data For: "A-8"

Matrix	Collect Date	Parmname	Units	Result	MDC	LLD	Qualifier
Air Particulate	1/5/2018 21:36	BETA	pCi/m3	7.08E-02	2.39E-03	1.00E-02	
Air Particulate	1/12/2018 20:23	BETA	pCi/m3	5.24E-02	2.31E-03	1.00E-02	
Air Particulate	1/19/2018 8:24	BETA	pCi/m3	4.75E-02	2.59E-03	1.00E-02	
Air Particulate	1/26/2018 8:29	BETA	pCi/m3	4.83E-02	1.93E-03	1.00E-02	
Air Particulate	2/2/2018 20:12	BETA	pCi/m3	4.90E-02	2.33E-03	1.00E-02	
Air Particulate	2/9/2018 20:59	BETA	pCi/m3	5.99E-02	2.98E-03	1.00E-02	
Air Particulate	2/16/2018 20:32	BETA	pCi/m3	4.69E-02	2.41E-03	1.00E-02	
Air Particulate	2/23/2018 19:42	BETA	pCi/m3	2.73E-02	2.35E-03	1.00E-02	
Air Particulate	3/2/2018 20:17	BETA	pCi/m3	4.51E-02	2.53E-03	1.00E-02	
Air Particulate	3/9/2018 20:35	BETA	pCi/m3	4.15E-02	2.61E-03	1.00E-02	
Air Particulate	3/16/2018 20:41	BETA	pCi/m3	4.68E-02	2.32E-03	1.00E-02	
Air Particulate	3/23/2018 22:46	BETA	pCi/m3	5.70E-02	3.98E-03	1.00E-02	
Air Particulate	3/30/2018 22:32	BETA	pCi/m3	4.73E-02	3.02E-03	1.00E-02	
Air Particulate	4/6/2018 20:02	BETA	pCi/m3	5.20E-02	3.83E-03	1.00E-02	
Air Particulate	4/13/2018 19:11	BETA	pCi/m3	5.40E-02	5.25E-03	1.00E-02	
Air Particulate	4/20/2018 19:18	BETA	pCi/m3	3.30E-02	2.86E-03	1.00E-02	
Air Particulate	4/27/2018 19:34	BETA	pCi/m3	4.55E-02	3.01E-03	1.00E-02	
Air Particulate	5/4/2018 19:50	BETA	pCi/m3	5.20E-02	3.73E-03	1.00E-02	
Air Particulate	5/11/2018 20:07	BETA	pCi/m3	4.55E-02	2.92E-03	1.00E-02	
Air Particulate	2/9/2018 22:37	Actinium-228	pCi/m3	2.46E-03	2.97E-03		U
Air Particulate	2/9/2018 22:37	Antimony-124	pCi/m3	1.23E-03	3.30E-03		U
Air Particulate	2/9/2018 22:37	Antimony-125	pCi/m3	1.02E-04	9.77E-04		U
Air Particulate	2/9/2018 22:37	Barium-140	pCi/m3	-1.42E-01	3.82E-01		U
Air Particulate	2/9/2018 22:37	Beryllium-7	pCi/m3	1.89E-01	1.78E-02		
Air Particulate	2/9/2018 22:37	Cerium-141	pCi/m3	2.48E-03	3.97E-03		U
Air Particulate	2/9/2018 22:37	Cerium-144	pCi/m3	1.07E-03	2.68E-03		U
Air Particulate	2/9/2018 22:37	Cesium-134	pCi/m3	1.05E-04	6.74E-04	5.00E-02	U

Air Particulate	2/9/2018 22:37	Cesium-137	pCi/m3	-1.39E-04	3.96E-04	6.00E-02	U
Air Particulate	2/9/2018 22:37	Cobalt-57	pCi/m3	-4.46E-05	2.88E-04		U
Air Particulate	2/9/2018 22:37	Cobalt-58	pCi/m3	3.77E-04	1.29E-03		U
Air Particulate	2/9/2018 22:37	Cobalt-60	pCi/m3	-5.10E-04	5.58E-04		U
Air Particulate	2/9/2018 22:37	Iodine-131	pCi/m3	-9.72E-01	0.00E+00		U
Air Particulate	2/9/2018 22:37	Iron-59	pCi/m3	1.28E-03	5.07E-03		U
Air Particulate	2/9/2018 22:37	Lanthanum-140	pCi/m3	-6.71E-02	1.23E-01		U
Air Particulate	2/9/2018 22:37	Manganese-54	pCi/m3	1.44E-05	5.48E-04		U
Air Particulate	2/9/2018 22:37	Niobium-95	pCi/m3	-3.82E-04	1.20E-03		U
Air Particulate	2/9/2018 22:37	Potassium-40	pCi/m3	6.00E-03	5.64E-03		UI
Air Particulate	2/9/2018 22:37	Ruthenium-103	pCi/m3	5.17E-04	2.51E-03		U
Air Particulate	2/9/2018 22:37	Ruthenium-106	pCi/m3	3.55E-03	6.49E-03		U
Air Particulate	2/9/2018 22:37	Selenium-75	pCi/m3	-2.54E-04	8.81E-04		U
Air Particulate	2/9/2018 22:37	Silver-108m	pCi/m3	4.78E-06	3.58E-04		U
Air Particulate	2/9/2018 22:37	Silver-110m	pCi/m3	2.57E-04	7.70E-04		U
Air Particulate	2/9/2018 22:37	Thorium-228	pCi/m3	-2.34E-04	7.88E-04		U
Air Particulate	2/9/2018 22:37	Zinc-65	pCi/m3	-4.70E-04	1.54E-03		U
Air Particulate	2/9/2018 22:37	Zirconium-95	pCi/m3	-8.49E-05	2.42E-03		U
Air Particulate	5/18/2018 19:46	BETA	pCi/m3	5.61E-02	3.59E-03	1.00E-02	
Air Particulate	5/25/2018 19:53	BETA	pCi/m3	4.31E-02	3.61E-03	1.00E-02	
Air Particulate	6/1/2018 19:51	BETA	pCi/m3	4.28E-02	3.61E-03	1.00E-02	
Air Particulate	6/8/2018 19:36	BETA	pCi/m3	5.82E-02	2.94E-03	1.00E-02	
Air Particulate	6/15/2018 19:40	BETA	pCi/m3	2.84E-02	2.96E-03	1.00E-02	
Air Particulate	6/22/2018 20:38	BETA	pCi/m3	3.30E-02	2.79E-03	1.00E-02	
Air Particulate	6/29/2018 20:32	BETA	pCi/m3	5.42E-02	2.78E-03	1.00E-02	
Air Particulate	7/6/2018 19:30	BETA	pCi/m3	4.18E-02	2.82E-03	1.00E-02	
Air Particulate	7/13/2018 19:33	BETA	pCi/m3	5.41E-02	3.54E-03	1.00E-02	
Air Particulate	7/20/2018 19:40	BETA	pCi/m3	4.42E-02	2.88E-03	1.00E-02	
Air Particulate	7/27/2018 19:37	BETA	pCi/m3	6.02E-02	3.49E-03	1.00E-02	
Air Particulate	8/3/2018 19:42	BETA	pCi/m3	4.83E-02	2.89E-03	1.00E-02	
Air Particulate	8/10/2018 19:53	BETA	pCi/m3	3.24E-02	2.87E-03	1.00E-02	
Air Particulate	5/11/2018 23:05	Actinium-228	pCi/m3	2.34E-03	4.53E-03		U
Air Particulate	5/11/2018 23:05	Antimony-124	pCi/m3	-2.36E-03	7.12E-03		U
Air Particulate	5/11/2018 23:05	Antimony-125	pCi/m3	-4.19E-04	1.57E-03		U
Air Particulate	5/11/2018 23:05	Barium-140	pCi/m3	-1.53E-01	7.95E-01		U
Air Particulate	5/11/2018 23:05	Beryllium-7	pCi/m3	2.20E-01	2.10E-02		
Air Particulate	5/11/2018 23:05	Cerium-141	pCi/m3	-2.42E-03	7.26E-03		U
Air Particulate	5/11/2018 23:05	Cerium-144	pCi/m3	8.65E-04	3.58E-03		U
Air Particulate	5/11/2018 23:05	Cesium-134	pCi/m3	4.53E-04	1.12E-03	5.00E-02	U
Air Particulate	5/11/2018 23:05	Cesium-137	pCi/m3	2.05E-04	6.57E-04	6.00E-02	U
Air Particulate	5/11/2018 23:05	Cobalt-57	pCi/m3	2.20E-04	5.42E-04		U
Air Particulate	5/11/2018 23:05	Cobalt-58	pCi/m3	-4.84E-04	2.04E-03		U
Air Particulate	5/11/2018 23:05	Cobalt-60	pCi/m3	-2.28E-04	7.27E-04		U
Air Particulate	5/11/2018 23:05	Iodine-131	pCi/m3	-1.16E-01	0.00E+00		U

Air Particulate	5/11/2018 23:05	Iron-59	pCi/m3	-7.51E-04	5.83E-03		U
Air Particulate	5/11/2018 23:05	Lanthanum-140	pCi/m3	3.69E-01	7.42E-01		U
Air Particulate	5/11/2018 23:05	Manganese-54	pCi/m3	4.19E-04	1.05E-03		U
Air Particulate	5/11/2018 23:05	Niobium-95	pCi/m3	-5.58E-04	1.55E-03		U
Air Particulate	5/11/2018 23:05	Potassium-40	pCi/m3	1.14E-02	7.31E-03		UI
Air Particulate	5/11/2018 23:05	Ruthenium-103	pCi/m3	1.66E-03	5.20E-03		U
Air Particulate	5/11/2018 23:05	Ruthenium-106	pCi/m3	1.04E-03	7.27E-03		U
Air Particulate	5/11/2018 23:05	Selenium-75	pCi/m3	-6.58E-04	1.31E-03		U
Air Particulate	5/11/2018 23:05	Silver-108m	pCi/m3	-1.25E-04	5.71E-04		U
Air Particulate	5/11/2018 23:05	Silver-110m	pCi/m3	-1.26E-04	9.57E-04		U
Air Particulate	5/11/2018 23:05	Thorium-228	pCi/m3	6.45E-04	1.22E-03		U
Air Particulate	5/11/2018 23:05	Zinc-65	pCi/m3	-4.33E-04	2.47E-03		U
Air Particulate	5/11/2018 23:05	Zirconium-95	pCi/m3	-3.93E-04	3.08E-03		U
Air Particulate	8/17/2018 19:40	BETA	pCi/m3	3.88E-02	2.87E-03	1.00E-02	
Air Particulate	8/24/2018 20:13	BETA	pCi/m3	5.68E-02	3.47E-03	1.00E-02	
Air Particulate	8/31/2018 20:04	BETA	pCi/m3	2.22E-02	2.88E-03	1.00E-02	
Air Particulate	9/7/2018 20:05	BETA	pCi/m3	2.14E-02	2.86E-03	1.00E-02	
Air Particulate	9/14/2018 20:09	BETA	pCi/m3	2.87E-02	3.00E-03	1.00E-02	
Air Particulate	9/21/2018 19:32	BETA	pCi/m3	2.68E-02	3.10E-03	1.00E-02	
Air Particulate	9/28/2018 19:54	BETA	pCi/m3	3.32E-02	2.97E-03	1.00E-02	
Air Particulate	10/5/2018 20:22	BETA	pCi/m3	3.87E-02	3.64E-03	1.00E-02	
Air Particulate	10/12/2018 19:58	BETA	pCi/m3	2.54E-02	3.22E-03	1.00E-02	
Air Particulate	10/19/2018 19:36	BETA	pCi/m3	5.75E-02	3.65E-03	1.00E-02	
Air Particulate	10/26/2018 20:28	BETA	pCi/m3	5.36E-02	3.01E-03	1.00E-02	
Air Particulate	11/2/2018 20:10	BETA	pCi/m3	4.65E-02	3.08E-03	1.00E-02	
Air Particulate	11/9/2018 19:26	BETA	pCi/m3	5.07E-02	3.08E-03	1.00E-02	
Air Particulate	8/10/2018 20:40	Actinium-228	pCi/m3	-6.34E-04	2.13E-03		U
Air Particulate	8/10/2018 20:40	Antimony-124	pCi/m3	-1.48E-03	2.88E-03		U
Air Particulate	8/10/2018 20:40	Antimony-125	pCi/m3	1.31E-04	1.04E-03		U
Air Particulate	8/10/2018 20:40	Barium-140	pCi/m3	-1.39E-01	7.74E-01		U
Air Particulate	8/10/2018 20:40	Beryllium-7	pCi/m3	1.48E-01	1.28E-02		
Air Particulate	8/10/2018 20:40	Cerium-141	pCi/m3	-6.07E-05	4.63E-03		U
Air Particulate	8/10/2018 20:40	Cerium-144	pCi/m3	5.94E-04	2.36E-03		U
Air Particulate	8/10/2018 20:40	Cesium-134	pCi/m3	-2.61E-04	3.86E-04	5.00E-02	U
Air Particulate	8/10/2018 20:40	Cesium-137	pCi/m3	8.44E-06	3.43E-04	6.00E-02	U
Air Particulate	8/10/2018 20:40	Cobalt-57	pCi/m3	1.64E-04	2.92E-04		U
Air Particulate	8/10/2018 20:40	Cobalt-58	pCi/m3	3.24E-04	1.20E-03		U
Air Particulate	8/10/2018 20:40	Cobalt-60	pCi/m3	1.01E-04	4.87E-04		U
Air Particulate	8/10/2018 20:40	Iodine-131	pCi/m3	2.98E+00	0.00E+00		UI
Air Particulate	8/10/2018 20:40	Iron-59	pCi/m3	8.07E-04	4.62E-03		U
Air Particulate	8/10/2018 20:40	Lanthanum-140	pCi/m3	-2.51E-02	3.08E-01		U
Air Particulate	8/10/2018 20:40	Manganese-54	pCi/m3	1.15E-04	5.15E-04		U
Air Particulate	8/10/2018 20:40	Niobium-95	pCi/m3	1.30E-04	1.39E-03		U
Air Particulate	8/10/2018 20:40	Potassium-40	pCi/m3	1.17E-02	3.47E-03		

Air Particulate	8/10/2018 20:40	Ruthenium-103	pCi/m3	1.15E-03	2.79E-03		U
Air Particulate	8/10/2018 20:40	Ruthenium-106	pCi/m3	-4.86E-04	3.80E-03		U
Air Particulate	8/10/2018 20:40	Selenium-75	pCi/m3	2.19E-06	7.87E-04		U
Air Particulate	8/10/2018 20:40	Silver-108m	pCi/m3	1.66E-04	3.61E-04		U
Air Particulate	8/10/2018 20:40	Silver-110m	pCi/m3	-1.58E-04	5.64E-04		U
Air Particulate	8/10/2018 20:40	Thorium-228	pCi/m3	5.63E-04	6.87E-04		U
Air Particulate	8/10/2018 20:40	Zinc-65	pCi/m3	1.45E-03	1.20E-03		UI
Air Particulate	8/10/2018 20:40	Zirconium-95	pCi/m3	1.43E-03	2.83E-03		U
Air Particulate	11/16/2018 20:13	BETA	pCi/m3	5.66E-02	3.06E-03	1.00E-02	
Air Particulate	11/23/2018 21:21	BETA	pCi/m3	4.96E-02	2.87E-03	1.00E-02	
Air Particulate	11/30/2018 21:09	BETA	pCi/m3	4.12E-02	3.55E-03	1.00E-02	
Air Particulate	12/7/2018 20:35	BETA	pCi/m3	5.14E-02	3.31E-03	1.00E-02	
Air Particulate	12/14/2018 21:36	BETA	pCi/m3	4.59E-02	3.26E-03	1.00E-02	
Air Particulate	12/21/2018 21:58	BETA	pCi/m3	3.51E-02	3.56E-03	1.00E-02	
Air Particulate	12/28/2018 20:44	BETA	pCi/m3	4.81E-02	2.98E-03	1.00E-02	
Air Particulate	11/9/2018 20:33	Actinium-228	pCi/m3	-1.24E-03	2.68E-03		U
Air Particulate	11/9/2018 20:33	Antimony-124	pCi/m3	1.99E-04	1.96E-03		U
Air Particulate	11/9/2018 20:33	Antimony-125	pCi/m3	-2.51E-04	1.28E-03		U
Air Particulate	11/9/2018 20:33	Barium-140	pCi/m3	1.45E-04	9.57E-03		U
Air Particulate	11/9/2018 20:33	Beryllium-7	pCi/m3	9.86E-02	5.86E-03		
Air Particulate	11/9/2018 20:33	Cerium-141	pCi/m3	-7.29E-04	1.20E-03		U
Air Particulate	11/9/2018 20:33	Cerium-144	pCi/m3	-3.74E-04	2.09E-03		U
Air Particulate	11/9/2018 20:33	Cesium-134	pCi/m3	1.35E-05	6.43E-04	5.00E-02	U
Air Particulate	11/9/2018 20:33	Cesium-137	pCi/m3	-9.43E-06	6.01E-04	6.00E-02	U
Air Particulate	11/9/2018 20:33	Cobalt-57	pCi/m3	1.70E-05	3.09E-04		U
Air Particulate	11/9/2018 20:33	Cobalt-58	pCi/m3	-1.00E-04	7.07E-04		U
Air Particulate	11/9/2018 20:33	Cobalt-60	pCi/m3	9.24E-06	6.84E-04		U
Air Particulate	11/9/2018 20:33	Iodine-131	pCi/m3	3.58E-03	7.58E-03		U
Air Particulate	11/9/2018 20:33	Iron-59	pCi/m3	3.53E-04	1.65E-03		U
Air Particulate	11/9/2018 20:33	Lanthanum-140	pCi/m3	3.20E-04	3.32E-03		U
Air Particulate	11/9/2018 20:33	Manganese-54	pCi/m3	-8.96E-05	5.84E-04		U
Air Particulate	11/9/2018 20:33	Niobium-95	pCi/m3	-9.91E-05	7.04E-04		U
Air Particulate	11/9/2018 20:33	Potassium-40	pCi/m3	9.12E-03	6.18E-03		UI
Air Particulate	11/9/2018 20:33	Ruthenium-103	pCi/m3	-5.32E-04	7.04E-04		U
Air Particulate	11/9/2018 20:33	Ruthenium-106	pCi/m3	-9.54E-04	4.47E-03		U
Air Particulate	11/9/2018 20:33	Selenium-75	pCi/m3	2.63E-04	7.64E-04		U
Air Particulate	11/9/2018 20:33	Silver-108m	pCi/m3	-2.82E-04	3.56E-04		U
Air Particulate	11/9/2018 20:33	Silver-110m	pCi/m3	-1.95E-04	7.37E-04		U
Air Particulate	11/9/2018 20:33	Thorium-228	pCi/m3	-2.38E-04	9.80E-04		U
Air Particulate	11/9/2018 20:33	Zinc-65	pCi/m3	2.01E-04	1.18E-03		U
Air Particulate	11/9/2018 20:33	Zirconium-95	pCi/m3	5.15E-04	1.52E-03		U

Notes:

1. LLDs are a-priori values.
2. MDCs are calculated a-posteriori values.
3. Gamma spectroscopy analysis results are calculated from a measurement using only one gamma energy
4. Air sample volumes are received in units of ft3. GEL converts the units and reports them as m3.

QUALIFIERS:

U Target isotope was analyzed for but not detected above the MDC or LLD.
UI Uncertain identification for gamma spectroscopy.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager f
M Reported result is less than the LLD and greater than the MDC.
DL DL MDC > LLD.

Sample Data For: "A-1"

Matrix	Collect Date	Parmname	Units	Result	MDC	LLD	Qualifier
Air Charcoal	1/5/2018 23:00	Iodine-131	pCi/m3	-5.69E-03	2.64E-02	7.00E-02	U
Air Charcoal	1/12/2018 21:51	Iodine-131	pCi/m3	2.25E-04	1.38E-02	7.00E-02	U
Air Charcoal	1/19/2018 9:47	Iodine-131	pCi/m3	-9.20E-03	1.64E-02	7.00E-02	U
Air Charcoal	1/26/2018 10:06	Iodine-131	pCi/m3	-1.27E-02	2.78E-02	7.00E-02	U
Air Charcoal	2/2/2018 21:55	Iodine-131	pCi/m3	-3.05E-03	1.09E-02	7.00E-02	U
Air Charcoal	2/9/2018 22:22	Iodine-131	pCi/m3	-8.28E-03	1.40E-02	7.00E-02	U
Air Charcoal	2/16/2018 21:54	Iodine-131	pCi/m3	1.80E-03	1.86E-02	7.00E-02	U
Air Charcoal	2/23/2018 21:27	Iodine-131	pCi/m3	-1.62E-03	1.05E-02	7.00E-02	U
Air Charcoal	3/2/2018 23:20	Iodine-131	pCi/m3	-8.38E-04	1.12E-02	7.00E-02	U
Air Charcoal	3/9/2018 23:43	Iodine-131	pCi/m3	1.90E-03	1.10E-02	7.00E-02	U
Air Charcoal	3/16/2018 22:33	Iodine-131	pCi/m3	-2.21E-03	1.16E-02	7.00E-02	U
Air Charcoal	3/23/2018 22:27	Iodine-131	pCi/m3	-2.10E-03	1.21E-02	7.00E-02	U
Air Charcoal	3/30/2018 22:09	Iodine-131	pCi/m3	-1.77E-03	2.66E-02	7.00E-02	U
Air Charcoal	4/6/2018 21:24	Iodine-131	pCi/m3	1.68E-03	9.92E-03	7.00E-02	U
Air Charcoal	4/13/2018 20:39	Iodine-131	pCi/m3	-7.65E-04	1.15E-02	7.00E-02	U
Air Charcoal	4/20/2018 20:55	Iodine-131	pCi/m3	8.92E-03	4.35E-02	7.00E-02	U
Air Charcoal	4/27/2018 21:11	Iodine-131	pCi/m3	-2.52E-03	7.12E-03	7.00E-02	U
Air Charcoal	5/4/2018 21:44	Iodine-131	pCi/m3	-7.25E-03	1.11E-02	7.00E-02	U
Air Charcoal	5/11/2018 22:18	Iodine-131	pCi/m3	2.37E-03	1.46E-02	7.00E-02	U
Air Charcoal	5/18/2018 21:39	Iodine-131	pCi/m3	7.95E-04	1.52E-02	7.00E-02	U
Air Charcoal	5/25/2018 21:48	Iodine-131	pCi/m3	1.39E-02	1.72E-02	7.00E-02	U
Air Charcoal	6/1/2018 21:53	Iodine-131	pCi/m3	5.39E-03	2.73E-02	7.00E-02	U
Air Charcoal	6/8/2018 21:32	Iodine-131	pCi/m3	-7.32E-04	1.39E-02	7.00E-02	U
Air Charcoal	6/15/2018 21:39	Iodine-131	pCi/m3	3.40E-03	1.78E-02	7.00E-02	U
Air Charcoal	6/22/2018 22:54	Iodine-131	pCi/m3	-3.57E-03	7.07E-03	7.00E-02	U
Air Charcoal	6/29/2018 21:14	Iodine-131	pCi/m3	1.50E-02	3.13E-02	7.00E-02	U
Air Charcoal	7/6/2018 19:50	Iodine-131	pCi/m3	-4.22E-03	2.12E-02	7.00E-02	U
Air Charcoal	7/13/2018 21:46	Iodine-131	pCi/m3	3.44E-03	2.00E-02	7.00E-02	U
Air Charcoal	7/20/2018 21:43	Iodine-131	pCi/m3	1.25E-02	3.11E-02	7.00E-02	U
Air Charcoal	7/27/2018 21:09	Iodine-131	pCi/m3	-1.03E-02	1.66E-02	7.00E-02	U
Air Charcoal	8/3/2018 22:24	Iodine-131	pCi/m3	-1.02E-02	1.58E-02	7.00E-02	U
Air Charcoal	8/10/2018 22:30	Iodine-131	pCi/m3	5.68E-03	2.95E-02	7.00E-02	U
Air Charcoal	8/17/2018 21:13	Iodine-131	pCi/m3	-5.07E-03	2.38E-02	7.00E-02	U
Air Charcoal	8/24/2018 21:47	Iodine-131	pCi/m3	6.57E-04	1.62E-02	7.00E-02	U
Air Charcoal	8/31/2018 21:30	Iodine-131	pCi/m3	-1.13E-03	1.22E-02	7.00E-02	U
Air Charcoal	9/7/2018 21:41	Iodine-131	pCi/m3	1.01E-03	2.85E-02	7.00E-02	U
Air Charcoal	9/14/2018 21:43	Iodine-131	pCi/m3	-1.48E-03	1.70E-02	7.00E-02	U
Air Charcoal	9/21/2018 21:26	Iodine-131	pCi/m3	4.34E-03	2.25E-02	7.00E-02	U
Air Charcoal	9/28/2018 21:52	Iodine-131	pCi/m3	3.59E-03	3.65E-02	7.00E-02	U
Air Charcoal	10/5/2018 21:51	Iodine-131	pCi/m3	-1.53E-03	1.49E-02	7.00E-02	U
Air Charcoal	10/12/2018 21:27	Iodine-131	pCi/m3	-1.32E-03	3.15E-02	7.00E-02	U

Air Charcoal	10/19/2018 21:11	Iodine-131	pCi/m3	1.42E-04	1.68E-02	7.00E-02	U
Air Charcoal	10/26/2018 22:00	Iodine-131	pCi/m3	6.74E-03	1.66E-02	7.00E-02	U
Air Charcoal	11/2/2018 21:46	Iodine-131	pCi/m3	-1.33E-02	1.98E-02	7.00E-02	U
Air Charcoal	11/9/2018 21:01	Iodine-131	pCi/m3	3.05E-03	1.56E-02	7.00E-02	U
Air Charcoal	11/16/2018 21:37	Iodine-131	pCi/m3	-6.25E-04	2.70E-02	7.00E-02	U
Air Charcoal	11/23/2018 23:02	Iodine-131	pCi/m3	-9.04E-04	2.64E-02	7.00E-02	U
Air Charcoal	11/30/2018 22:49	Iodine-131	pCi/m3	-8.90E-03	1.20E-02	7.00E-02	U
Air Charcoal	12/7/2018 22:00	Iodine-131	pCi/m3	-2.22E-03	3.27E-02	7.00E-02	U
Air Charcoal	12/14/2018 23:04	Iodine-131	pCi/m3	-1.99E-02	3.58E-02	7.00E-02	U
Air Charcoal	12/21/2018 23:20	Iodine-131	pCi/m3	-5.84E-03	2.22E-02	7.00E-02	U
Air Charcoal	12/28/2018 22:02	Iodine-131	pCi/m3	2.05E-04	2.36E-02	7.00E-02	U

Notes:

1. LLDs are a-priori values.
2. MDCs are calculated a-posteriori values.
3. Gamma spectroscopy analysis results are calculated from a measurement using only one gamma
4. Air sample volumes are received in units of ft3. GEL converts the units and reports them as m3.

QUALIFIERS:

U Target isotope was analyzed for but not detected above the MDC or LLD.
UI Uncertain identification for gamma spectroscopy.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project m
M Reported result is less than the LLD and greater than the MDC.
DL DL MDC > LLD.

Sample Data For: "A-2"

Matrix	Collect Date	Parmname	Units	Result	MDC	LLD	Qualifier
Air Charcoal	1/5/2018 23:28	Iodine-131	pCi/m3	-6.78E-03	1.59E-02	7.00E-02	U
Air Charcoal	1/12/2018 22:20	Iodine-131	pCi/m3	5.15E-03	1.96E-02	7.00E-02	U
Air Charcoal	1/19/2018 10:16	Iodine-131	pCi/m3	-5.04E-03	1.81E-02	7.00E-02	U
Air Charcoal	1/26/2018 11:45	Iodine-131	pCi/m3	2.99E-03	2.26E-02	7.00E-02	U
Air Charcoal	2/2/2018 23:39	Iodine-131	pCi/m3	-1.34E-03	1.29E-02	7.00E-02	U
Air Charcoal	2/9/2018 22:55	Iodine-131	pCi/m3	-4.08E-03	1.03E-02	7.00E-02	U
Air Charcoal	2/16/2018 22:29	Iodine-131	pCi/m3	-4.93E-03	9.91E-03	7.00E-02	U
Air Charcoal	2/23/2018 22:40	Iodine-131	pCi/m3	-4.81E-03	9.95E-03	7.00E-02	U
Air Charcoal	3/3/2018 0:30	Iodine-131	pCi/m3	-7.97E-04	9.00E-03	7.00E-02	U
Air Charcoal	3/10/2018 0:53	Iodine-131	pCi/m3	2.52E-03	1.16E-02	7.00E-02	U
Air Charcoal	3/16/2018 23:37	Iodine-131	pCi/m3	5.71E-03	1.45E-02	7.00E-02	U

Air Charcoal	3/23/2018 22:18	Iodine-131	pCi/m3	-4.85E-04	9.01E-03	7.00E-02	U
Air Charcoal	3/30/2018 22:00	Iodine-131	pCi/m3	-4.15E-03	1.25E-02	7.00E-02	U
Air Charcoal	4/6/2018 21:51	Iodine-131	pCi/m3	-2.47E-03	9.91E-03	7.00E-02	U
Air Charcoal	4/13/2018 21:14	Iodine-131	pCi/m3	-3.48E-03	1.03E-02	7.00E-02	U
Air Charcoal	4/20/2018 21:40	Iodine-131	pCi/m3	1.13E-02	3.79E-02	7.00E-02	U
Air Charcoal	4/27/2018 21:48	Iodine-131	pCi/m3	-7.79E-03	2.82E-02	7.00E-02	U
Air Charcoal	5/4/2018 22:12	Iodine-131	pCi/m3	2.29E-03	1.65E-02	7.00E-02	U
Air Charcoal	5/11/2018 22:54	Iodine-131	pCi/m3	1.04E-03	1.47E-02	7.00E-02	U
Air Charcoal	5/18/2018 22:24	Iodine-131	pCi/m3	7.90E-03	1.83E-02	7.00E-02	U
Air Charcoal	5/25/2018 22:57	Iodine-131	pCi/m3	-8.40E-03	9.15E-03	7.00E-02	U
Air Charcoal	6/1/2018 22:56	Iodine-131	pCi/m3	3.63E-03	1.69E-02	7.00E-02	U
Air Charcoal	6/8/2018 22:14	Iodine-131	pCi/m3	-4.78E-03	1.39E-02	7.00E-02	U
Air Charcoal	6/15/2018 22:26	Iodine-131	pCi/m3	3.13E-03	1.90E-02	7.00E-02	U
Air Charcoal	6/22/2018 23:51	Iodine-131	pCi/m3	6.08E-03	1.53E-02	7.00E-02	U
Air Charcoal	6/29/2018 22:33	Iodine-131	pCi/m3	-7.01E-03	1.28E-02	7.00E-02	U
Air Charcoal	7/6/2018 21:25	Iodine-131	pCi/m3	-6.88E-03	1.71E-02	7.00E-02	U
Air Charcoal	7/13/2018 22:52	Iodine-131	pCi/m3	-9.94E-03	2.02E-02	7.00E-02	U
Air Charcoal	7/20/2018 22:26	Iodine-131	pCi/m3	-7.80E-03	2.61E-02	7.00E-02	U
Air Charcoal	7/27/2018 22:09	Iodine-131	pCi/m3	-1.10E-02	1.21E-02	7.00E-02	U
Air Charcoal	8/3/2018 22:16	Iodine-131	pCi/m3	5.38E-03	2.73E-02	7.00E-02	U
Air Charcoal	8/10/2018 22:06	Iodine-131	pCi/m3	1.51E-03	2.90E-02	7.00E-02	U
Air Charcoal	8/17/2018 21:52	Iodine-131	pCi/m3	-2.65E-04	2.17E-02	7.00E-02	U
Air Charcoal	8/24/2018 22:49	Iodine-131	pCi/m3	-7.38E-03	1.68E-02	7.00E-02	U
Air Charcoal	8/31/2018 22:27	Iodine-131	pCi/m3	7.02E-05	1.04E-02	7.00E-02	U
Air Charcoal	9/7/2018 22:14	Iodine-131	pCi/m3	-1.21E-02	1.55E-02	7.00E-02	U
Air Charcoal	9/14/2018 22:13	Iodine-131	pCi/m3	2.63E-03	1.77E-02	7.00E-02	U
Air Charcoal	9/21/2018 22:05	Iodine-131	pCi/m3	6.51E-03	1.85E-02	7.00E-02	U
Air Charcoal	9/28/2018 22:32	Iodine-131	pCi/m3	-5.98E-03	2.87E-02	7.00E-02	U
Air Charcoal	10/5/2018 22:21	Iodine-131	pCi/m3	-4.86E-03	1.45E-02	7.00E-02	U
Air Charcoal	10/12/2018 22:00	Iodine-131	pCi/m3	-1.13E-02	1.13E-02	7.00E-02	U
Air Charcoal	10/19/2018 21:42	Iodine-131	pCi/m3	5.59E-03	1.94E-02	7.00E-02	U
Air Charcoal	10/26/2018 22:50	Iodine-131	pCi/m3	1.82E-02	2.86E-02	7.00E-02	U
Air Charcoal	11/2/2018 22:36	Iodine-131	pCi/m3	-1.92E-03	3.59E-02	7.00E-02	U
Air Charcoal	11/9/2018 21:30	Iodine-131	pCi/m3	8.12E-03	2.33E-02	7.00E-02	U
Air Charcoal	11/16/2018 22:13	Iodine-131	pCi/m3	-9.18E-03	1.67E-02	7.00E-02	U
Air Charcoal	11/23/2018 23:58	Iodine-131	pCi/m3	-3.71E-04	3.62E-02	7.00E-02	U
Air Charcoal	11/30/2018 23:44	Iodine-131	pCi/m3	-1.27E-02	1.74E-02	7.00E-02	U
Air Charcoal	12/7/2018 22:59	Iodine-131	pCi/m3	-3.02E-03	2.34E-02	7.00E-02	U
Air Charcoal	12/15/2018 0:03	Iodine-131	pCi/m3	-7.59E-03	2.15E-02	7.00E-02	U
Air Charcoal	12/21/2018 23:58	Iodine-131	pCi/m3	7.31E-03	2.16E-02	7.00E-02	U
Air Charcoal	12/28/2018 22:36	Iodine-131	pCi/m3	3.73E-03	1.93E-02	7.00E-02	U

Notes:

1. LLDs are a-priori values.
2. MDCs are calculated a-posteriori values.
3. Gamma spectroscopy analysis results are calculated from a measurement using only one gamma
4. Air sample volumes are received in units of ft3. GEL converts the units and reports them as m3.

QUALIFIERS:

U Target isotope was analyzed for but not detected above the MDC or LLD.
UI Uncertain identification for gamma spectroscopy.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project m
M Reported result is less than the LLD and greater than the MDC.
DL DL MDC > LLD.

Sample Data For: "A-3"

Matrix	Collect Date	Parmname	Units	Result	MDC	LLD	Qualifier
Air Charcoal	1/5/2018 22:48	Iodine-131	pCi/m3	-9.21E-03	1.58E-02	7.00E-02	U
Air Charcoal	1/12/2018 21:36	Iodine-131	pCi/m3	-3.55E-03	1.46E-02	7.00E-02	U
Air Charcoal	1/19/2018 9:29	Iodine-131	pCi/m3	-1.57E-03	2.37E-02	7.00E-02	U
Air Charcoal	1/26/2018 9:44	Iodine-131	pCi/m3	5.25E-03	2.34E-02	7.00E-02	U
Air Charcoal	2/2/2018 21:34	Iodine-131	pCi/m3	8.54E-03	9.90E-03	7.00E-02	U
Air Charcoal	2/9/2018 22:05	Iodine-131	pCi/m3	3.12E-03	1.99E-02	7.00E-02	U
Air Charcoal	2/16/2018 21:39	Iodine-131	pCi/m3	2.17E-03	1.05E-02	7.00E-02	U
Air Charcoal	2/23/2018 21:09	Iodine-131	pCi/m3	5.26E-03	1.22E-02	7.00E-02	U
Air Charcoal	3/2/2018 23:03	Iodine-131	pCi/m3	-5.11E-03	8.12E-03	7.00E-02	U
Air Charcoal	3/9/2018 23:29	Iodine-131	pCi/m3	-6.18E-04	1.33E-02	7.00E-02	U
Air Charcoal	3/16/2018 22:18	Iodine-131	pCi/m3	-9.53E-04	1.05E-02	7.00E-02	U
Air Charcoal	3/23/2018 22:32	Iodine-131	pCi/m3	-5.22E-03	9.20E-03	7.00E-02	U
Air Charcoal	3/30/2018 22:13	Iodine-131	pCi/m3	2.76E-02	1.24E-02	7.00E-02	UI
Air Charcoal	4/6/2018 21:08	Iodine-131	pCi/m3	-7.69E-04	8.27E-03	7.00E-02	U
Air Charcoal	4/13/2018 20:27	Iodine-131	pCi/m3	-2.73E-03	1.32E-02	7.00E-02	U
Air Charcoal	4/20/2018 20:39	Iodine-131	pCi/m3	-1.79E-02	2.29E-02	7.00E-02	U
Air Charcoal	4/27/2018 20:49	Iodine-131	pCi/m3	1.35E-03	2.88E-02	7.00E-02	U
Air Charcoal	5/4/2018 21:25	Iodine-131	pCi/m3	-1.01E-03	1.09E-02	7.00E-02	U
Air Charcoal	5/11/2018 21:49	Iodine-131	pCi/m3	-1.97E-03	2.56E-02	7.00E-02	U
Air Charcoal	5/18/2018 21:09	Iodine-131	pCi/m3	-1.19E-03	4.48E-02	7.00E-02	U
Air Charcoal	5/25/2018 21:20	Iodine-131	pCi/m3	4.34E-03	2.03E-02	7.00E-02	U
Air Charcoal	6/1/2018 21:25	Iodine-131	pCi/m3	5.62E-04	2.72E-02	7.00E-02	U
Air Charcoal	6/8/2018 21:14	Iodine-131	pCi/m3	-7.89E-07	1.94E-02	7.00E-02	U
Air Charcoal	6/15/2018 21:20	Iodine-131	pCi/m3	1.48E-03	1.75E-02	7.00E-02	U
Air Charcoal	6/22/2018 22:31	Iodine-131	pCi/m3	3.30E-03	1.73E-02	7.00E-02	U

Air Charcoal	6/29/2018 21:08	Iodine-131	pCi/m3	1.04E-02	2.79E-02	7.00E-02	U
Air Charcoal	7/6/2018 19:48	Iodine-131	pCi/m3	-6.10E-03	1.94E-02	7.00E-02	U
Air Charcoal	7/13/2018 21:25	Iodine-131	pCi/m3	-6.71E-03	2.29E-02	7.00E-02	U
Air Charcoal	7/20/2018 21:23	Iodine-131	pCi/m3	-2.61E-03	1.92E-02	7.00E-02	U
Air Charcoal	7/27/2018 20:51	Iodine-131	pCi/m3	2.07E-04	2.07E-02	7.00E-02	U
Air Charcoal	8/3/2018 21:09	Iodine-131	pCi/m3	-5.68E-03	1.83E-02	7.00E-02	U
Air Charcoal	8/10/2018 21:17	Iodine-131	pCi/m3	-2.25E-03	2.17E-02	7.00E-02	U
Air Charcoal	8/17/2018 20:55	Iodine-131	pCi/m3	-2.64E-03	2.04E-02	7.00E-02	U
Air Charcoal	8/24/2018 21:30	Iodine-131	pCi/m3	-1.03E-03	1.01E-02	7.00E-02	U
Air Charcoal	8/31/2018 21:14	Iodine-131	pCi/m3	-8.42E-03	1.11E-02	7.00E-02	U
Air Charcoal	9/7/2018 21:16	Iodine-131	pCi/m3	2.45E-02	6.86E-02	7.00E-02	U
Air Charcoal	9/14/2018 21:18	Iodine-131	pCi/m3	1.29E-03	1.59E-02	7.00E-02	U
Air Charcoal	9/21/2018 21:04	Iodine-131	pCi/m3	4.13E-03	1.86E-02	7.00E-02	U
Air Charcoal	9/28/2018 21:30	Iodine-131	pCi/m3	6.55E-03	2.61E-02	7.00E-02	U
Air Charcoal	10/5/2018 21:32	Iodine-131	pCi/m3	2.57E-04	1.84E-02	7.00E-02	U
Air Charcoal	10/12/2018 21:07	Iodine-131	pCi/m3	1.21E-03	2.13E-02	7.00E-02	U
Air Charcoal	10/19/2018 20:51	Iodine-131	pCi/m3	5.77E-03	1.89E-02	7.00E-02	U
Air Charcoal	10/26/2018 21:42	Iodine-131	pCi/m3	4.91E-03	1.65E-02	7.00E-02	U
Air Charcoal	11/2/2018 21:26	Iodine-131	pCi/m3	2.57E-03	1.92E-02	7.00E-02	U
Air Charcoal	11/9/2018 20:40	Iodine-131	pCi/m3	1.95E-03	1.55E-02	7.00E-02	U
Air Charcoal	11/16/2018 21:19	Iodine-131	pCi/m3	-1.42E-04	2.39E-02	7.00E-02	U
Air Charcoal	11/23/2018 22:39	Iodine-131	pCi/m3	6.91E-03	2.49E-02	7.00E-02	U
Air Charcoal	11/30/2018 22:26	Iodine-131	pCi/m3	4.82E-05	2.29E-02	7.00E-02	U
Air Charcoal	12/7/2018 21:42	Iodine-131	pCi/m3	2.80E-04	2.52E-02	7.00E-02	U
Air Charcoal	12/14/2018 22:46	Iodine-131	pCi/m3	1.16E-02	2.73E-02	7.00E-02	U
Air Charcoal	12/22/2018 9:29	Iodine-131	pCi/m3	3.52E-03	1.84E-02	7.00E-02	U
Air Charcoal	12/29/2018 19:19	Iodine-131	pCi/m3	2.61E-03	1.63E-02	7.00E-02	U

Notes:

1. LLDs are a-priori values.
2. MDCs are calculated a-posteriori values.
3. Gamma spectroscopy analysis results are calculated from a measurement using only one gamma
4. Air sample volumes are received in units of ft3. GEL converts the units and reports them as m3.

QUALIFIERS:

U Target isotope was analyzed for but not detected above the MDC or LLD.
UI Uncertain identification for gamma spectroscopy.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project m
M Reported result is less than the LLD and greater than the MDC.

DL DL MDC > LLD.

Sample Data For: "A-4"

Matrix	Collect Date	Parmname	Units	Result	MDC	LLD	Qualifier
Air Charcoal	1/5/2018 22:30	Iodine-131	pCi/m3	1.00E-02	2.90E-02	7.00E-02	U
Air Charcoal	1/12/2018 21:19	Iodine-131	pCi/m3	7.39E-03	1.70E-02	7.00E-02	U
Air Charcoal	1/19/2018 9:08	Iodine-131	pCi/m3	6.66E-03	2.02E-02	7.00E-02	U
Air Charcoal	1/26/2018 9:20	Iodine-131	pCi/m3	5.22E-03	2.68E-02	7.00E-02	U
Air Charcoal	2/2/2018 21:13	Iodine-131	pCi/m3	-3.66E-03	1.23E-02	7.00E-02	U
Air Charcoal	2/9/2018 21:48	Iodine-131	pCi/m3	2.67E-03	1.67E-02	7.00E-02	U
Air Charcoal	2/16/2018 21:22	Iodine-131	pCi/m3	1.12E-03	1.00E-02	7.00E-02	U
Air Charcoal	2/23/2018 20:43	Iodine-131	pCi/m3	1.63E-03	1.43E-02	7.00E-02	U
Air Charcoal	3/2/2018 22:34	Iodine-131	pCi/m3	-3.60E-03	1.20E-02	7.00E-02	U
Air Charcoal	3/9/2018 23:10	Iodine-131	pCi/m3	3.89E-03	1.46E-02	7.00E-02	U
Air Charcoal	3/16/2018 22:01	Iodine-131	pCi/m3	1.10E-03	1.27E-02	7.00E-02	U
Air Charcoal	3/23/2018 22:33	Iodine-131	pCi/m3	2.45E-03	1.17E-02	7.00E-02	U
Air Charcoal	3/30/2018 22:14	Iodine-131	pCi/m3	1.72E-02	1.64E-02	7.00E-02	UI
Air Charcoal	4/6/2018 20:51	Iodine-131	pCi/m3	-1.39E-03	1.04E-02	7.00E-02	U
Air Charcoal	4/13/2018 20:09	Iodine-131	pCi/m3	3.06E-03	1.32E-02	7.00E-02	U
Air Charcoal	4/20/2018 20:22	Iodine-131	pCi/m3	-4.74E-03	2.22E-02	7.00E-02	U
Air Charcoal	4/27/2018 20:29	Iodine-131	pCi/m3	-1.00E-02	6.46E-03	7.00E-02	U
Air Charcoal	5/4/2018 21:05	Iodine-131	pCi/m3	3.48E-04	1.26E-02	7.00E-02	U
Air Charcoal	5/11/2018 21:31	Iodine-131	pCi/m3	5.99E-03	1.73E-02	7.00E-02	U
Air Charcoal	5/18/2018 20:47	Iodine-131	pCi/m3	-3.71E-03	1.11E-02	7.00E-02	U
Air Charcoal	5/25/2018 20:57	Iodine-131	pCi/m3	2.11E-03	1.86E-02	7.00E-02	U
Air Charcoal	6/1/2018 21:03	Iodine-131	pCi/m3	6.20E-03	2.42E-02	7.00E-02	U
Air Charcoal	6/8/2018 20:52	Iodine-131	pCi/m3	-2.43E-05	1.64E-02	7.00E-02	U
Air Charcoal	6/15/2018 20:56	Iodine-131	pCi/m3	9.43E-03	2.10E-02	7.00E-02	U
Air Charcoal	6/22/2018 22:08	Iodine-131	pCi/m3	-2.78E-03	1.05E-02	7.00E-02	U
Air Charcoal	6/29/2018 21:05	Iodine-131	pCi/m3	6.62E-03	2.96E-02	7.00E-02	U
Air Charcoal	7/6/2018 19:39	Iodine-131	pCi/m3	-7.73E-03	1.95E-02	7.00E-02	U
Air Charcoal	7/13/2018 20:40	Iodine-131	pCi/m3	3.43E-03	2.83E-02	7.00E-02	U
Air Charcoal	7/20/2018 20:44	Iodine-131	pCi/m3	7.04E-03	2.53E-02	7.00E-02	U
Air Charcoal	7/27/2018 20:35	Iodine-131	pCi/m3	-7.69E-03	1.43E-02	7.00E-02	U
Air Charcoal	8/3/2018 20:50	Iodine-131	pCi/m3	2.07E-02	4.24E-02	7.00E-02	U
Air Charcoal	8/10/2018 20:53	Iodine-131	pCi/m3	2.99E-03	2.74E-02	7.00E-02	U
Air Charcoal	8/17/2018 20:35	Iodine-131	pCi/m3	-1.04E-03	3.68E-02	7.00E-02	U
Air Charcoal	8/24/2018 21:13	Iodine-131	pCi/m3	-5.45E-03	1.98E-02	7.00E-02	U
Air Charcoal	8/31/2018 20:59	Iodine-131	pCi/m3	6.52E-03	1.10E-02	7.00E-02	U
Air Charcoal	9/7/2018 20:57	Iodine-131	pCi/m3	-1.24E-02	2.75E-02	7.00E-02	U
Air Charcoal	9/14/2018 20:59	Iodine-131	pCi/m3	1.75E-03	1.68E-02	7.00E-02	U
Air Charcoal	9/21/2018 20:48	Iodine-131	pCi/m3	-3.73E-03	1.22E-02	7.00E-02	U
Air Charcoal	9/28/2018 21:13	Iodine-131	pCi/m3	-5.36E-03	0.00E+00	7.00E-02	U

Air Charcoal	10/5/2018 21:14	Iodine-131	pCi/m3	-7.83E-03	1.59E-02	7.00E-02	U
Air Charcoal	10/12/2018 20:50	Iodine-131	pCi/m3	-3.12E-03	3.26E-02	7.00E-02	U
Air Charcoal	10/19/2018 20:29	Iodine-131	pCi/m3	-6.16E-04	1.37E-02	7.00E-02	U
Air Charcoal	10/26/2018 21:24	Iodine-131	pCi/m3	-1.16E-03	1.51E-02	7.00E-02	U
Air Charcoal	11/2/2018 21:13	Iodine-131	pCi/m3	-2.18E-03	2.13E-02	7.00E-02	U
Air Charcoal	11/9/2018 20:27	Iodine-131	pCi/m3	-6.65E-03	1.12E-02	7.00E-02	U
Air Charcoal	11/16/2018 21:05	Iodine-131	pCi/m3	8.07E-04	1.87E-02	7.00E-02	U
Air Charcoal	11/23/2018 22:20	Iodine-131	pCi/m3	5.21E-03	3.40E-02	7.00E-02	U
Air Charcoal	11/30/2018 22:10	Iodine-131	pCi/m3	1.43E-03	3.19E-02	7.00E-02	U
Air Charcoal	12/7/2018 21:26	Iodine-131	pCi/m3	-1.56E-03	1.54E-02	7.00E-02	U
Air Charcoal	12/14/2018 22:29	Iodine-131	pCi/m3	-7.60E-03	1.17E-02	7.00E-02	U
Air Charcoal	12/21/2018 22:54	Iodine-131	pCi/m3	2.73E-03	2.45E-02	7.00E-02	U
Air Charcoal	12/28/2018 21:39	Iodine-131	pCi/m3	-5.58E-04	2.23E-02	7.00E-02	U

Notes:

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3. Gamma spectroscopy analysis results are calculated from a measurement using only one gamma
4. Air sample volumes are received in units of ft3. GEL converts the units and reports them as m3.

QUALIFIERS:

U Target isotope was analyzed for but not detected above the MDC or LLD.
UI Uncertain identification for gamma spectroscopy.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project m
M Reported result is less than the LLD and greater than the MDC.
DL DL MDC > LLD.

Sample Data For: "A-5"

Matrix	Collect Date	Parmname	Units	Result	MDC	LLD	Qualifier
Air Charcoal	1/5/2018 21:47	Iodine-131	pCi/m3	5.10E-03	3.65E-02	7.00E-02	U
Air Charcoal	1/12/2018 20:34	Iodine-131	pCi/m3	-9.55E-03	7.70E-03	7.00E-02	U
Air Charcoal	1/19/2018 8:38	Iodine-131	pCi/m3	6.76E-03	2.41E-02	7.00E-02	U
Air Charcoal	1/26/2018 8:44	Iodine-131	pCi/m3	8.62E-03	2.37E-02	7.00E-02	U
Air Charcoal	2/2/2018 20:23	Iodine-131	pCi/m3	2.14E-04	1.55E-02	7.00E-02	U
Air Charcoal	2/9/2018 21:07	Iodine-131	pCi/m3	-5.48E-03	1.50E-02	7.00E-02	U
Air Charcoal	2/16/2018 20:41	Iodine-131	pCi/m3	3.02E-04	7.49E-03	7.00E-02	U
Air Charcoal	2/23/2018 19:53	Iodine-131	pCi/m3	-2.59E-02	3.79E-01	7.00E-02	DLU
Air Charcoal	3/2/2018 20:44	Iodine-131	pCi/m3	-6.17E-03	9.09E-03	7.00E-02	U

Air Charcoal	3/9/2018 21:03	Iodine-131	pCi/m3	9.15E-03	1.41E-02	7.00E-02	U
Air Charcoal	3/16/2018 20:56	Iodine-131	pCi/m3	-3.85E-03	1.10E-02	7.00E-02	U
Air Charcoal	3/23/2018 23:03	Iodine-131	pCi/m3	1.70E-03	1.33E-02	7.00E-02	U
Air Charcoal	3/30/2018 22:47	Iodine-131	pCi/m3	1.73E-03	1.70E-02	7.00E-02	U
Air Charcoal	4/6/2018 20:11	Iodine-131	pCi/m3	1.97E-03	1.50E-02	7.00E-02	U
Air Charcoal	4/13/2018 19:21	Iodine-131	pCi/m3	6.91E-03	1.43E-02	7.00E-02	U
Air Charcoal	4/20/2018 19:28	Iodine-131	pCi/m3	-9.40E-03	2.98E-02	7.00E-02	U
Air Charcoal	4/27/2018 19:43	Iodine-131	pCi/m3	1.97E-03	2.80E-02	7.00E-02	U
Air Charcoal	5/4/2018 20:05	Iodine-131	pCi/m3	-4.12E-03	9.74E-03	7.00E-02	U
Air Charcoal	5/11/2018 20:23	Iodine-131	pCi/m3	1.59E-03	2.20E-02	7.00E-02	U
Air Charcoal	5/18/2018 19:56	Iodine-131	pCi/m3	-4.84E-03	1.04E-02	7.00E-02	U
Air Charcoal	5/25/2018 20:08	Iodine-131	pCi/m3	-8.48E-04	2.49E-02	7.00E-02	U
Air Charcoal	6/1/2018 20:06	Iodine-131	pCi/m3	-3.44E-03	2.33E-02	7.00E-02	U
Air Charcoal	6/8/2018 19:48	Iodine-131	pCi/m3	-2.77E-03	1.11E-02	7.00E-02	U
Air Charcoal	6/15/2018 19:56	Iodine-131	pCi/m3	7.07E-03	2.64E-02	7.00E-02	U
Air Charcoal	6/22/2018 21:00	Iodine-131	pCi/m3	-3.92E-03	8.27E-03	7.00E-02	U
Air Charcoal	6/29/2018 20:49	Iodine-131	pCi/m3	-4.64E-03	1.22E-02	7.00E-02	U
Air Charcoal	7/6/2018 19:40	Iodine-131	pCi/m3	3.48E-03	2.32E-02	7.00E-02	U
Air Charcoal	7/13/2018 19:47	Iodine-131	pCi/m3	-3.47E-03	3.36E-02	7.00E-02	U
Air Charcoal	7/20/2018 19:52	Iodine-131	pCi/m3	8.78E-03	2.06E-02	7.00E-02	U
Air Charcoal	7/27/2018 19:48	Iodine-131	pCi/m3	1.05E-02	2.46E-02	7.00E-02	U
Air Charcoal	8/3/2018 19:58	Iodine-131	pCi/m3	8.04E-03	3.88E-02	7.00E-02	U
Air Charcoal	8/10/2018 20:07	Iodine-131	pCi/m3	3.44E-03	2.80E-02	7.00E-02	U
Air Charcoal	8/17/2018 19:47	Iodine-131	pCi/m3	4.49E-05	2.14E-02	7.00E-02	U
Air Charcoal	8/24/2018 20:21	Iodine-131	pCi/m3	8.17E-03	2.93E-02	7.00E-02	U
Air Charcoal	8/31/2018 20:14	Iodine-131	pCi/m3	3.04E-03	1.31E-02	7.00E-02	U
Air Charcoal	9/7/2018 20:17	Iodine-131	pCi/m3	6.86E-03	5.72E-02	7.00E-02	U
Air Charcoal	9/14/2018 20:20	Iodine-131	pCi/m3	3.15E-03	2.07E-02	7.00E-02	U
Air Charcoal	9/21/2018 19:42	Iodine-131	pCi/m3	-1.20E-02	1.73E-02	7.00E-02	U
Air Charcoal	9/28/2018 20:06	Iodine-131	pCi/m3	5.23E-03	4.33E-02	7.00E-02	U
Air Charcoal	10/5/2018 20:32	Iodine-131	pCi/m3	9.65E-04	1.88E-02	7.00E-02	U
Air Charcoal	10/12/2018 20:08	Iodine-131	pCi/m3	1.10E-02	3.03E-02	7.00E-02	U
Air Charcoal	10/19/2018 19:47	Iodine-131	pCi/m3	-1.29E-02	1.13E-02	7.00E-02	U
Air Charcoal	10/26/2018 20:39	Iodine-131	pCi/m3	-5.41E-03	1.17E-02	7.00E-02	U
Air Charcoal	11/2/2018 20:20	Iodine-131	pCi/m3	-4.03E-03	1.64E-02	7.00E-02	U
Air Charcoal	11/9/2018 19:35	Iodine-131	pCi/m3	1.00E-03	1.81E-02	7.00E-02	U
Air Charcoal	11/16/2018 20:22	Iodine-131	pCi/m3	-2.78E-03	2.31E-02	7.00E-02	U
Air Charcoal	11/23/2018 21:31	Iodine-131	pCi/m3	-1.15E-02	1.86E-02	7.00E-02	U
Air Charcoal	11/30/2018 21:20	Iodine-131	pCi/m3	2.96E-04	1.79E-02	7.00E-02	U
Air Charcoal	12/7/2018 20:45	Iodine-131	pCi/m3	-1.41E-03	1.69E-02	7.00E-02	U
Air Charcoal	12/14/2018 21:45	Iodine-131	pCi/m3	-1.04E-02	1.24E-02	7.00E-02	U
Air Charcoal	12/21/2018 22:06	Iodine-131	pCi/m3	-7.43E-03	8.34E-03	7.00E-02	U
Air Charcoal	12/28/2018 20:53	Iodine-131	pCi/m3	2.79E-03	1.75E-02	7.00E-02	U

The data obtained from this website is the most accurate possible at the time of your query and based upon your specific inquiry. This data does not replace the Certificates of Analysis provided by GEL. Certificates of Analysis undergo an additional level of review before being sent to the

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3. Gamma spectroscopy analysis results are calculated from a measurement using only one gamma
4. Air sample volumes are received in units of ft3. GEL converts the units and reports them as m3.

QUALIFIERS:

U Target isotope was analyzed for but not detected above the MDC or LLD.
UI Uncertain identification for gamma spectroscopy.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project m
M Reported result is less than the LLD and greater than the MDC.
DL DL MDC > LLD.

Sample Data For: "A-6"

Matrix	Collect Date	Parmname	Units	Result	MDC	LLD	Qualifier
Air Charcoal	1/5/2018 22:14	Iodine-131	pCi/m3	1.61E-03	2.57E-02	7.00E-02	U
Air Charcoal	1/12/2018 21:04	Iodine-131	pCi/m3	6.89E-03	2.95E-02	7.00E-02	U
Air Charcoal	1/19/2018 8:54	Iodine-131	pCi/m3	-1.88E-03	1.94E-02	7.00E-02	U
Air Charcoal	1/26/2018 9:04	Iodine-131	pCi/m3	-8.88E-03	1.42E-02	7.00E-02	U
Air Charcoal	2/2/2018 20:55	Iodine-131	pCi/m3	9.60E-03	1.07E-02	7.00E-02	U
Air Charcoal	2/9/2018 21:34	Iodine-131	pCi/m3	1.32E-03	1.97E-02	7.00E-02	U
Air Charcoal	2/16/2018 21:08	Iodine-131	pCi/m3	-8.41E-04	1.16E-02	7.00E-02	U
Air Charcoal	2/23/2018 20:25	Iodine-131	pCi/m3	-2.50E-03	1.38E-02	7.00E-02	U
Air Charcoal	3/2/2018 22:17	Iodine-131	pCi/m3	9.17E-03	8.25E-03	7.00E-02	UI
Air Charcoal	3/9/2018 22:54	Iodine-131	pCi/m3	-4.72E-03	6.35E-03	7.00E-02	U
Air Charcoal	3/16/2018 21:41	Iodine-131	pCi/m3	-3.35E-03	1.08E-02	7.00E-02	U
Air Charcoal	3/23/2018 22:47	Iodine-131	pCi/m3	-2.45E-03	9.89E-03	7.00E-02	U
Air Charcoal	3/30/2018 22:33	Iodine-131	pCi/m3	6.92E-03	3.03E-02	7.00E-02	U
Air Charcoal	4/6/2018 20:35	Iodine-131	pCi/m3	-1.72E-03	1.05E-02	7.00E-02	U
Air Charcoal	4/13/2018 19:52	Iodine-131	pCi/m3	5.32E-04	1.15E-02	7.00E-02	U
Air Charcoal	4/20/2018 20:05	Iodine-131	pCi/m3	-1.47E-02	2.00E-02	7.00E-02	U
Air Charcoal	4/27/2018 20:12	Iodine-131	pCi/m3	-1.31E-03	6.61E-03	7.00E-02	U
Air Charcoal	5/4/2018 20:50	Iodine-131	pCi/m3	1.13E-03	1.23E-02	7.00E-02	U
Air Charcoal	5/11/2018 21:15	Iodine-131	pCi/m3	2.30E-03	1.49E-02	7.00E-02	U
Air Charcoal	5/18/2018 20:31	Iodine-131	pCi/m3	5.21E-03	2.09E-02	7.00E-02	U
Air Charcoal	5/25/2018 20:40	Iodine-131	pCi/m3	1.29E-02	2.39E-02	7.00E-02	U
Air Charcoal	6/1/2018 20:45	Iodine-131	pCi/m3	2.70E-03	2.37E-02	7.00E-02	U

Air Charcoal	6/8/2018 20:36	Iodine-131	pCi/m3	-1.92E-03	1.55E-02	7.00E-02	U
Air Charcoal	6/15/2018 20:37	Iodine-131	pCi/m3	5.27E-03	2.01E-02	7.00E-02	U
Air Charcoal	6/22/2018 21:43	Iodine-131	pCi/m3	-1.37E-03	1.15E-02	7.00E-02	U
Air Charcoal	6/29/2018 21:00	Iodine-131	pCi/m3	1.68E-02	3.69E-02	7.00E-02	U
Air Charcoal	7/6/2018 19:37	Iodine-131	pCi/m3	8.04E-04	1.26E-02	7.00E-02	U
Air Charcoal	7/13/2018 20:19	Iodine-131	pCi/m3	6.10E-03	2.26E-02	7.00E-02	U
Air Charcoal	7/20/2018 20:25	Iodine-131	pCi/m3	1.14E-02	2.70E-02	7.00E-02	U
Air Charcoal	7/27/2018 20:18	Iodine-131	pCi/m3	-1.08E-04	2.37E-02	7.00E-02	U
Air Charcoal	8/3/2018 20:32	Iodine-131	pCi/m3	-2.44E-03	2.34E-02	7.00E-02	U
Air Charcoal	8/10/2018 20:39	Iodine-131	pCi/m3	8.96E-05	1.21E-02	7.00E-02	U
Air Charcoal	8/17/2018 20:20	Iodine-131	pCi/m3	-8.05E-03	1.49E-02	7.00E-02	U
Air Charcoal	8/24/2018 20:55	Iodine-131	pCi/m3	9.19E-03	2.89E-02	7.00E-02	U
Air Charcoal	8/31/2018 20:42	Iodine-131	pCi/m3	-5.02E-03	8.17E-03	7.00E-02	U
Air Charcoal	9/7/2018 20:42	Iodine-131	pCi/m3	4.28E-03	3.57E-02	7.00E-02	U
Air Charcoal	9/14/2018 20:44	Iodine-131	pCi/m3	-3.13E-03	1.55E-02	7.00E-02	U
Air Charcoal	9/21/2018 20:25	Iodine-131	pCi/m3	-6.28E-03	1.07E-02	7.00E-02	U
Air Charcoal	9/28/2018 20:51	Iodine-131	pCi/m3	-1.13E-03	2.80E-02	7.00E-02	U
Air Charcoal	10/5/2018 20:59	Iodine-131	pCi/m3	5.96E-03	2.61E-02	7.00E-02	U
Air Charcoal	10/12/2018 20:34	Iodine-131	pCi/m3	-8.98E-03	2.51E-02	7.00E-02	U
Air Charcoal	10/19/2018 20:13	Iodine-131	pCi/m3	-2.45E-03	1.33E-02	7.00E-02	U
Air Charcoal	10/26/2018 21:05	Iodine-131	pCi/m3	-3.94E-03	1.54E-02	7.00E-02	U
Air Charcoal	11/2/2018 20:51	Iodine-131	pCi/m3	-4.16E-04	1.99E-02	7.00E-02	U
Air Charcoal	11/9/2018 20:04	Iodine-131	pCi/m3	-6.94E-03	1.56E-02	7.00E-02	U
Air Charcoal	11/16/2018 20:47	Iodine-131	pCi/m3	6.28E-03	3.36E-02	7.00E-02	U
Air Charcoal	11/23/2018 21:59	Iodine-131	pCi/m3	9.51E-04	2.51E-02	7.00E-02	U
Air Charcoal	11/30/2018 21:47	Iodine-131	pCi/m3	-1.25E-04	2.04E-02	7.00E-02	U
Air Charcoal	12/7/2018 21:10	Iodine-131	pCi/m3	6.26E-03	3.90E-02	7.00E-02	U
Air Charcoal	12/14/2018 22:15	Iodine-131	pCi/m3	-2.37E-05	2.25E-02	7.00E-02	U
Air Charcoal	12/21/2018 22:35	Iodine-131	pCi/m3	4.40E-04	2.04E-02	7.00E-02	U
Air Charcoal	12/28/2018 21:19	Iodine-131	pCi/m3	4.33E-03	1.83E-02	7.00E-02	U

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4. Air sample volumes are received in units of ft3. GEL converts the units and reports them as m3.

QUALIFIERS:

U Target isotope was analyzed for but not detected above the MDC or LLD.

UI Uncertain identification for gamma spectroscopy.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project m
M Reported result is less than the LLD and greater than the MDC.
DL DL MDC > LLD.

Sample Data For: "A-7"

Matrix	Collect Date	Parmname	Units	Result	MDC	LLD	Qualifier
Air Charcoal	1/5/2018 21:44	Iodine-131	pCi/m3	-5.50E-03	4.52E-02	7.00E-02	U
Air Charcoal	1/12/2018 20:32	Iodine-131	pCi/m3	3.08E-03	1.70E-02	7.00E-02	U
Air Charcoal	1/19/2018 8:34	Iodine-131	pCi/m3	-9.43E-04	1.83E-02	7.00E-02	U
Air Charcoal	1/26/2018 8:39	Iodine-131	pCi/m3	7.81E-03	2.47E-02	7.00E-02	U
Air Charcoal	2/2/2018 20:23	Iodine-131	pCi/m3	-1.87E-03	9.63E-03	7.00E-02	U
Air Charcoal	2/9/2018 21:11	Iodine-131	pCi/m3	-6.58E-05	1.62E-02	7.00E-02	U
Air Charcoal	2/16/2018 20:44	Iodine-131	pCi/m3	2.35E-03	1.32E-02	7.00E-02	U
Air Charcoal	2/23/2018 19:59	Iodine-131	pCi/m3	1.32E-03	1.28E-02	7.00E-02	U
Air Charcoal	3/2/2018 20:46	Iodine-131	pCi/m3	-9.26E-03	1.19E-02	7.00E-02	U
Air Charcoal	3/9/2018 21:06	Iodine-131	pCi/m3	5.35E-03	1.20E-02	7.00E-02	U
Air Charcoal	3/16/2018 20:59	Iodine-131	pCi/m3	6.56E-03	1.30E-02	7.00E-02	U
Air Charcoal	3/23/2018 22:55	Iodine-131	pCi/m3	2.28E-03	1.18E-02	7.00E-02	U
Air Charcoal	3/30/2018 22:42	Iodine-131	pCi/m3	-5.91E-03	1.38E-02	7.00E-02	U
Air Charcoal	4/6/2018 20:14	Iodine-131	pCi/m3	-7.96E-03	1.60E-02	7.00E-02	U
Air Charcoal	4/13/2018 19:24	Iodine-131	pCi/m3	-1.10E-03	1.59E-02	7.00E-02	U
Air Charcoal	4/20/2018 19:34	Iodine-131	pCi/m3	1.18E-02	3.42E-02	7.00E-02	U
Air Charcoal	4/27/2018 19:49	Iodine-131	pCi/m3	3.71E-03	2.78E-02	7.00E-02	U
Air Charcoal	5/4/2018 20:11	Iodine-131	pCi/m3	-1.02E-03	1.00E-02	7.00E-02	U
Air Charcoal	5/11/2018 20:32	Iodine-131	pCi/m3	-3.78E-03	1.04E-02	7.00E-02	U
Air Charcoal	5/18/2018 20:02	Iodine-131	pCi/m3	3.77E-03	1.88E-02	7.00E-02	U
Air Charcoal	5/25/2018 20:14	Iodine-131	pCi/m3	-2.15E-03	1.41E-02	7.00E-02	U
Air Charcoal	6/1/2018 20:12	Iodine-131	pCi/m3	2.24E-03	2.96E-02	7.00E-02	U
Air Charcoal	6/8/2018 19:52	Iodine-131	pCi/m3	-5.79E-04	1.21E-02	7.00E-02	U
Air Charcoal	6/15/2018 20:02	Iodine-131	pCi/m3	1.00E-02	1.65E-02	7.00E-02	U
Air Charcoal	6/22/2018 21:09	Iodine-131	pCi/m3	-1.88E-03	1.12E-02	7.00E-02	U
Air Charcoal	6/29/2018 20:56	Iodine-131	pCi/m3	-9.44E-03	1.52E-02	7.00E-02	U
Air Charcoal	7/6/2018 19:43	Iodine-131	pCi/m3	-9.43E-03	2.33E-02	7.00E-02	U
Air Charcoal	7/13/2018 19:52	Iodine-131	pCi/m3	1.33E-02	3.14E-02	7.00E-02	U
Air Charcoal	7/20/2018 19:57	Iodine-131	pCi/m3	-7.24E-03	1.62E-02	7.00E-02	U
Air Charcoal	7/27/2018 19:54	Iodine-131	pCi/m3	4.39E-03	2.75E-02	7.00E-02	U
Air Charcoal	8/3/2018 20:07	Iodine-131	pCi/m3	1.38E-02	3.20E-02	7.00E-02	U
Air Charcoal	8/10/2018 20:14	Iodine-131	pCi/m3	1.37E-02	3.90E-02	7.00E-02	U
Air Charcoal	8/17/2018 19:51	Iodine-131	pCi/m3	-8.01E-03	7.06E-03	7.00E-02	U
Air Charcoal	8/24/2018 20:27	Iodine-131	pCi/m3	-6.38E-04	2.05E-02	7.00E-02	U
Air Charcoal	8/31/2018 20:19	Iodine-131	pCi/m3	-6.97E-03	8.50E-03	7.00E-02	U
Air Charcoal	9/7/2018 20:16	Iodine-131	pCi/m3	2.06E-04	3.09E-02	7.00E-02	U

Air Charcoal	9/14/2018 20:20	Iodine-131	pCi/m3	-4.80E-03	1.40E-02	7.00E-02	U
Air Charcoal	9/21/2018 19:54	Iodine-131	pCi/m3	8.01E-04	1.78E-02	7.00E-02	U
Air Charcoal	9/28/2018 20:19	Iodine-131	pCi/m3	-2.84E-03	1.79E-02	7.00E-02	U
Air Charcoal	10/5/2018 20:37	Iodine-131	pCi/m3	4.24E-03	2.11E-02	7.00E-02	U
Air Charcoal	10/12/2018 20:12	Iodine-131	pCi/m3	4.26E-03	2.15E-02	7.00E-02	U
Air Charcoal	10/19/2018 19:51	Iodine-131	pCi/m3	4.12E-03	1.68E-02	7.00E-02	U
Air Charcoal	10/26/2018 20:44	Iodine-131	pCi/m3	-1.58E-03	2.25E-02	7.00E-02	U
Air Charcoal	11/2/2018 20:26	Iodine-131	pCi/m3	9.52E-03	2.96E-02	7.00E-02	U
Air Charcoal	11/9/2018 19:39	Iodine-131	pCi/m3	1.22E-03	1.91E-02	7.00E-02	U
Air Charcoal	11/16/2018 20:26	Iodine-131	pCi/m3	6.20E-03	3.58E-02	7.00E-02	U
Air Charcoal	11/23/2018 21:37	Iodine-131	pCi/m3	-2.91E-03	2.47E-02	7.00E-02	U
Air Charcoal	11/30/2018 21:25	Iodine-131	pCi/m3	5.54E-04	1.70E-02	7.00E-02	U
Air Charcoal	12/7/2018 20:49	Iodine-131	pCi/m3	6.14E-03	2.12E-02	7.00E-02	U
Air Charcoal	12/14/2018 21:50	Iodine-131	pCi/m3	-9.16E-03	1.75E-02	7.00E-02	U
Air Charcoal	12/21/2018 22:12	Iodine-131	pCi/m3	2.04E-02	3.84E-02	7.00E-02	U
Air Charcoal	12/28/2018 20:59	Iodine-131	pCi/m3	5.64E-03	2.17E-02	7.00E-02	U

Notes:

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3. Gamma spectroscopy analysis results are calculated from a measurement using only one gamma
4. Air sample volumes are received in units of ft3. GEL converts the units and reports them as m3.

QUALIFIERS:

U Target isotope was analyzed for but not detected above the MDC or LLD.
UI Uncertain identification for gamma spectroscopy.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project m
M Reported result is less than the LLD and greater than the MDC.
DL DL MDC > LLD.

Sample Data For: "A-8"

Matrix	Collect Date	Parmname	Units	Result	MDC	LLD	Qualifier
Air Charcoal	1/5/2018 21:36	Iodine-131	pCi/m3	2.46E-04	2.47E-02	7.00E-02	U
Air Charcoal	1/12/2018 20:23	Iodine-131	pCi/m3	1.05E-02	1.15E-02	7.00E-02	U
Air Charcoal	1/19/2018 8:24	Iodine-131	pCi/m3	-5.56E-03	1.60E-02	7.00E-02	U
Air Charcoal	1/26/2018 8:29	Iodine-131	pCi/m3	3.21E-03	1.95E-02	7.00E-02	U
Air Charcoal	2/2/2018 20:12	Iodine-131	pCi/m3	-1.99E-03	1.27E-02	7.00E-02	U
Air Charcoal	2/9/2018 20:59	Iodine-131	pCi/m3	-4.18E-03	1.45E-02	7.00E-02	U

Air Charcoal	2/16/2018 20:32	Iodine-131	pCi/m3	4.78E-05	1.03E-02	7.00E-02	U
Air Charcoal	2/23/2018 19:42	Iodine-131	pCi/m3	-1.99E-03	1.04E-02	7.00E-02	U
Air Charcoal	3/2/2018 20:17	Iodine-131	pCi/m3	-5.10E-03	1.04E-02	7.00E-02	U
Air Charcoal	3/9/2018 20:35	Iodine-131	pCi/m3	1.10E-03	1.32E-02	7.00E-02	U
Air Charcoal	3/16/2018 20:41	Iodine-131	pCi/m3	-6.41E-04	1.09E-02	7.00E-02	U
Air Charcoal	3/23/2018 22:46	Iodine-131	pCi/m3	3.70E-03	1.18E-02	7.00E-02	U
Air Charcoal	3/30/2018 22:32	Iodine-131	pCi/m3	7.43E-05	1.85E-02	7.00E-02	U
Air Charcoal	4/6/2018 20:02	Iodine-131	pCi/m3	2.72E-03	1.04E-02	7.00E-02	U
Air Charcoal	4/13/2018 19:11	Iodine-131	pCi/m3	-9.20E-03	1.54E-02	7.00E-02	U
Air Charcoal	4/20/2018 19:18	Iodine-131	pCi/m3	-1.79E-03	4.01E-02	7.00E-02	U
Air Charcoal	4/27/2018 19:34	Iodine-131	pCi/m3	-9.51E-03	4.93E-03	7.00E-02	U
Air Charcoal	5/4/2018 19:50	Iodine-131	pCi/m3	-1.88E-03	1.35E-02	7.00E-02	U
Air Charcoal	5/11/2018 20:07	Iodine-131	pCi/m3	3.84E-03	1.53E-02	7.00E-02	U
Air Charcoal	5/18/2018 19:46	Iodine-131	pCi/m3	-1.39E-03	1.71E-02	7.00E-02	U
Air Charcoal	5/25/2018 19:53	Iodine-131	pCi/m3	4.18E-04	1.75E-02	7.00E-02	U
Air Charcoal	6/1/2018 19:51	Iodine-131	pCi/m3	7.44E-03	2.11E-02	7.00E-02	U
Air Charcoal	6/8/2018 19:36	Iodine-131	pCi/m3	1.81E-03	2.23E-02	7.00E-02	U
Air Charcoal	6/15/2018 19:40	Iodine-131	pCi/m3	2.17E-03	1.84E-02	7.00E-02	U
Air Charcoal	6/22/2018 20:38	Iodine-131	pCi/m3	-5.76E-04	1.32E-02	7.00E-02	U
Air Charcoal	6/29/2018 20:32	Iodine-131	pCi/m3	-4.31E-04	2.20E-02	7.00E-02	U
Air Charcoal	7/6/2018 19:30	Iodine-131	pCi/m3	9.48E-04	2.02E-02	7.00E-02	U
Air Charcoal	7/13/2018 19:33	Iodine-131	pCi/m3	5.03E-03	2.77E-02	7.00E-02	U
Air Charcoal	7/20/2018 19:40	Iodine-131	pCi/m3	7.20E-03	2.50E-02	7.00E-02	U
Air Charcoal	7/27/2018 19:37	Iodine-131	pCi/m3	1.27E-02	3.15E-02	7.00E-02	U
Air Charcoal	8/3/2018 19:42	Iodine-131	pCi/m3	-2.94E-03	2.28E-02	7.00E-02	U
Air Charcoal	8/10/2018 19:53	Iodine-131	pCi/m3	2.34E-03	2.37E-02	7.00E-02	U
Air Charcoal	8/17/2018 19:40	Iodine-131	pCi/m3	8.83E-03	2.53E-02	7.00E-02	U
Air Charcoal	8/24/2018 20:13	Iodine-131	pCi/m3	1.43E-02	3.15E-02	7.00E-02	U
Air Charcoal	8/31/2018 20:04	Iodine-131	pCi/m3	3.25E-03	9.56E-03	7.00E-02	U
Air Charcoal	9/7/2018 20:05	Iodine-131	pCi/m3	8.55E-04	3.72E-02	7.00E-02	U
Air Charcoal	9/14/2018 20:09	Iodine-131	pCi/m3	4.84E-03	1.75E-02	7.00E-02	U
Air Charcoal	9/21/2018 19:32	Iodine-131	pCi/m3	7.73E-03	2.15E-02	7.00E-02	U
Air Charcoal	9/28/2018 19:54	Iodine-131	pCi/m3	5.13E-03	2.67E-02	7.00E-02	U
Air Charcoal	10/5/2018 20:22	Iodine-131	pCi/m3	3.63E-03	2.07E-02	7.00E-02	U
Air Charcoal	10/12/2018 19:58	Iodine-131	pCi/m3	-3.12E-03	2.61E-02	7.00E-02	U
Air Charcoal	10/19/2018 19:36	Iodine-131	pCi/m3	2.59E-03	1.57E-02	7.00E-02	U
Air Charcoal	10/26/2018 20:28	Iodine-131	pCi/m3	4.87E-03	1.95E-02	7.00E-02	U
Air Charcoal	11/2/2018 20:10	Iodine-131	pCi/m3	-6.68E-03	1.41E-02	7.00E-02	U
Air Charcoal	11/9/2018 19:26	Iodine-131	pCi/m3	1.18E-02	2.81E-02	7.00E-02	U
Air Charcoal	11/16/2018 20:13	Iodine-131	pCi/m3	2.84E-03	2.64E-02	7.00E-02	U
Air Charcoal	11/23/2018 21:21	Iodine-131	pCi/m3	9.21E-03	2.78E-02	7.00E-02	U
Air Charcoal	11/30/2018 21:09	Iodine-131	pCi/m3	-2.43E-05	2.30E-02	7.00E-02	U
Air Charcoal	12/7/2018 20:35	Iodine-131	pCi/m3	3.82E-03	2.35E-02	7.00E-02	U
Air Charcoal	12/14/2018 21:36	Iodine-131	pCi/m3	-5.91E-03	2.89E-02	7.00E-02	U

Air Charcoal	12/21/2018 21:58	Iodine-131	pCi/m3	3.29E-03	2.10E-02	7.00E-02	U
Air Charcoal	12/28/2018 20:44	Iodine-131	pCi/m3	-1.79E-03	2.51E-02	7.00E-02	U

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QUALIFIERS:

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UI Uncertain identification for gamma spectroscopy.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project m
M Reported result is less than the LLD and greater than the MDC.
DL DL MDC > LLD.

Sample Data For: "F-1"

Matrix	Collect Date	Parmname	Units	Result	MDC	LLD	Qualifier
Catfish	5/8/2018 12:00	Actinium-228	pCi/g	9.18E-03	3.67E-02		U
Catfish	5/8/2018 12:00	Antimony-124	pCi/g	-4.64E-04	1.37E-02		U
Catfish	5/8/2018 12:00	Antimony-125	pCi/g	4.94E-03	2.01E-02		U
Catfish	5/8/2018 12:00	Barium-140	pCi/g	2.06E-02	3.22E-02		U
Catfish	5/8/2018 12:00	Beryllium-7	pCi/g	-1.40E-02	5.05E-02		U
Catfish	5/8/2018 12:00	Cerium-141	pCi/g	1.47E-02	9.84E-03		UI
Catfish	5/8/2018 12:00	Cerium-144	pCi/g	3.23E-03	4.33E-02		U
Catfish	5/8/2018 12:00	Cesium-134	pCi/g	-2.17E-03	7.95E-03	1.30E+02	U
Catfish	5/8/2018 12:00	Cesium-137	pCi/g	-2.80E-03	5.91E-03	1.50E+02	U
Catfish	5/8/2018 12:00	Chromium-51	pCi/g	2.51E-02	5.90E-02		U
Catfish	5/8/2018 12:00	Cobalt-57	pCi/g	1.04E-04	5.74E-03		U
Catfish	5/8/2018 12:00	Cobalt-58	pCi/g	3.91E-04	7.48E-03	1.30E+02	U
Catfish	5/8/2018 12:00	Cobalt-60	pCi/g	-1.06E-03	8.87E-03	1.30E+02	U
Catfish	5/8/2018 12:00	Iodine-131	pCi/g	2.22E-03	1.07E-02		U
Catfish	5/8/2018 12:00	Iron-59	pCi/g	1.71E-03	1.67E-02	2.60E+02	U
Catfish	5/8/2018 12:00	Lanthanum-140	pCi/g	1.47E-03	9.22E-03		U
Catfish	5/8/2018 12:00	Manganese-54	pCi/g	5.64E-06	7.48E-03	1.30E+02	U
Catfish	5/8/2018 12:00	Niobium-95	pCi/g	-1.47E-03	7.74E-03		U
Catfish	5/8/2018 12:00	Potassium-40	pCi/g	2.79E+00	6.87E-02		
Catfish	5/8/2018 12:00	Ruthenium-103	pCi/g	1.18E-03	6.62E-03		U
Catfish	5/8/2018 12:00	Ruthenium-106	pCi/g	4.45E-03	7.01E-02		U
Catfish	5/8/2018 12:00	Selenium-75	pCi/g	2.00E-03	9.78E-03		U
Catfish	5/8/2018 12:00	Silver-108m	pCi/g	-1.02E-03	5.78E-03		U
Catfish	5/8/2018 12:00	Silver-110m	pCi/g	1.22E-03	1.15E-02		U
Catfish	5/8/2018 12:00	Thorium-228	pCi/g	6.12E-03	1.29E-02		U
Catfish	5/8/2018 12:00	Zinc-65	pCi/g	4.77E-03	1.85E-02	2.60E+02	U
Catfish	5/8/2018 12:00	Zirconium-95	pCi/g	-3.46E-04	1.52E-02		U
Bass	5/8/2018 12:00	Actinium-228	pCi/g	7.54E-03	3.86E-02		U
Bass	5/8/2018 12:00	Antimony-124	pCi/g	2.08E-03	1.61E-02		U
Bass	5/8/2018 12:00	Antimony-125	pCi/g	-2.34E-03	1.75E-02		U
Bass	5/8/2018 12:00	Barium-140	pCi/g	7.26E-03	3.90E-02		U
Bass	5/8/2018 12:00	Beryllium-7	pCi/g	1.28E-02	5.38E-02		U
Bass	5/8/2018 12:00	Cerium-141	pCi/g	2.81E-03	1.18E-02		U
Bass	5/8/2018 12:00	Cerium-144	pCi/g	1.42E-02	4.67E-02		U
Bass	5/8/2018 12:00	Cesium-134	pCi/g	6.94E-03	1.12E-02	1.30E+02	U
Bass	5/8/2018 12:00	Cesium-137	pCi/g	1.45E-04	8.60E-03	1.50E+02	U
Bass	5/8/2018 12:00	Chromium-51	pCi/g	-2.41E-02	5.26E-02		U
Bass	5/8/2018 12:00	Cobalt-57	pCi/g	-6.87E-04	5.11E-03		U
Bass	5/8/2018 12:00	Cobalt-58	pCi/g	2.49E-03	9.35E-03	1.30E+02	U
Bass	5/8/2018 12:00	Cobalt-60	pCi/g	8.53E-04	9.65E-03	1.30E+02	U
Bass	5/8/2018 12:00	Iodine-131	pCi/g	-2.08E-03	1.11E-02		U

Bass	5/8/2018 12:00	Iron-59	pCi/g	3.09E-03	2.21E-02	2.60E+02	U
Bass	5/8/2018 12:00	Lanthanum-140	pCi/g	1.98E-03	9.51E-03		U
Bass	5/8/2018 12:00	Manganese-54	pCi/g	1.38E-03	8.12E-03	1.30E+02	U
Bass	5/8/2018 12:00	Niobium-95	pCi/g	4.46E-03	9.02E-03		U
Bass	5/8/2018 12:00	Potassium-40	pCi/g	3.91E+00	5.82E-02		
Bass	5/8/2018 12:00	Ruthenium-103	pCi/g	6.83E-05	7.28E-03		U
Bass	5/8/2018 12:00	Ruthenium-106	pCi/g	4.20E-03	7.36E-02		U
Bass	5/8/2018 12:00	Selenium-75	pCi/g	1.18E-04	8.90E-03		U
Bass	5/8/2018 12:00	Silver-108m	pCi/g	-9.22E-04	5.46E-03		U
Bass	5/8/2018 12:00	Silver-110m	pCi/g	1.15E-03	1.10E-02		U
Bass	5/8/2018 12:00	Thorium-228	pCi/g	2.05E-03	1.58E-02		U
Bass	5/8/2018 12:00	Zinc-65	pCi/g	-4.56E-03	1.90E-02	2.60E+02	U
Bass	5/8/2018 12:00	Zirconium-95	pCi/g	-5.04E-04	1.55E-02		U
Catfish	12/11/2018 12:00	Actinium-228	pCi/g	9.60E-03	4.93E-02		U
Catfish	12/11/2018 12:00	Antimony-124	pCi/g	-6.91E-04	2.40E-02		U
Catfish	12/11/2018 12:00	Antimony-125	pCi/g	-2.42E-03	2.14E-02		U
Catfish	12/11/2018 12:00	Barium-140	pCi/g	-1.77E-02	3.80E-02		U
Catfish	12/11/2018 12:00	Beryllium-7	pCi/g	2.97E-02	7.97E-02		U
Catfish	12/11/2018 12:00	Cerium-141	pCi/g	-4.76E-03	1.34E-02		U
Catfish	12/11/2018 12:00	Cerium-144	pCi/g	1.06E-02	5.17E-02		U
Catfish	12/11/2018 12:00	Cesium-134	pCi/g	1.60E-04	9.67E-03	1.30E+02	U
Catfish	12/11/2018 12:00	Cesium-137	pCi/g	3.16E-03	1.13E-02	1.50E+02	U
Catfish	12/11/2018 12:00	Chromium-51	pCi/g	-2.26E-02	6.67E-02		U
Catfish	12/11/2018 12:00	Cobalt-57	pCi/g	5.88E-04	6.48E-03		U
Catfish	12/11/2018 12:00	Cobalt-58	pCi/g	-1.91E-03	9.73E-03	1.30E+02	U
Catfish	12/11/2018 12:00	Cobalt-60	pCi/g	-1.08E-03	8.89E-03	1.30E+02	U
Catfish	12/11/2018 12:00	Iodine-131	pCi/g	-2.32E-03	1.47E-02		U
Catfish	12/11/2018 12:00	Iron-59	pCi/g	-6.02E-03	2.53E-02	2.60E+02	U
Catfish	12/11/2018 12:00	Lanthanum-140	pCi/g	-4.64E-03	1.38E-02		U
Catfish	12/11/2018 12:00	Manganese-54	pCi/g	8.64E-03	9.71E-03	1.30E+02	U
Catfish	12/11/2018 12:00	Niobium-95	pCi/g	1.98E-03	1.05E-02		U
Catfish	12/11/2018 12:00	Potassium-40	pCi/g	2.93E+00	1.07E-01		
Catfish	12/11/2018 12:00	Ruthenium-103	pCi/g	4.04E-04	8.89E-03		U
Catfish	12/11/2018 12:00	Ruthenium-106	pCi/g	-1.55E-03	8.49E-02		U
Catfish	12/11/2018 12:00	Selenium-75	pCi/g	-3.23E-03	1.05E-02		U
Catfish	12/11/2018 12:00	Silver-108m	pCi/g	-1.98E-04	7.16E-03		U
Catfish	12/11/2018 12:00	Silver-110m	pCi/g	8.65E-04	1.47E-02		U
Catfish	12/11/2018 12:00	Thorium-228	pCi/g	2.34E-03	1.44E-02		U
Catfish	12/11/2018 12:00	Zinc-65	pCi/g	5.31E-04	2.19E-02	2.60E+02	U
Catfish	12/11/2018 12:00	Zirconium-95	pCi/g	2.09E-03	1.40E-02		U
Bass	12/11/2018 12:00	Actinium-228	pCi/g	-6.81E-03	3.42E-02		U
Bass	12/11/2018 12:00	Antimony-124	pCi/g	3.74E-03	2.06E-02		U
Bass	12/11/2018 12:00	Antimony-125	pCi/g	-5.36E-03	1.92E-02		U
Bass	12/11/2018 12:00	Barium-140	pCi/g	5.01E-03	4.07E-02		U

Bass	12/11/2018 12:00	Beryllium-7	pCi/g	6.70E-03	6.89E-02		U
Bass	12/11/2018 12:00	Cerium-141	pCi/g	-3.54E-03	1.32E-02		U
Bass	12/11/2018 12:00	Cerium-144	pCi/g	9.22E-03	4.96E-02		U
Bass	12/11/2018 12:00	Cesium-134	pCi/g	1.22E-04	9.34E-03	1.30E+02	U
Bass	12/11/2018 12:00	Cesium-137	pCi/g	-3.96E-03	7.03E-03	1.50E+02	U
Bass	12/11/2018 12:00	Chromium-51	pCi/g	-1.68E-03	6.67E-02		U
Bass	12/11/2018 12:00	Cobalt-57	pCi/g	1.37E-03	6.92E-03		U
Bass	12/11/2018 12:00	Cobalt-58	pCi/g	7.54E-04	8.75E-03	1.30E+02	U
Bass	12/11/2018 12:00	Cobalt-60	pCi/g	-6.12E-04	1.01E-02	1.30E+02	U
Bass	12/11/2018 12:00	Iodine-131	pCi/g	4.58E-04	1.24E-02		U
Bass	12/11/2018 12:00	Iron-59	pCi/g	9.93E-04	1.95E-02	2.60E+02	U
Bass	12/11/2018 12:00	Lanthanum-140	pCi/g	-2.68E-03	1.04E-02		U
Bass	12/11/2018 12:00	Manganese-54	pCi/g	1.52E-03	8.31E-03	1.30E+02	U
Bass	12/11/2018 12:00	Niobium-95	pCi/g	3.63E-03	9.71E-03		U
Bass	12/11/2018 12:00	Potassium-40	pCi/g	1.52E+00	9.06E-02		
Bass	12/11/2018 12:00	Ruthenium-103	pCi/g	-7.00E-04	9.21E-03		U
Bass	12/11/2018 12:00	Ruthenium-106	pCi/g	2.53E-02	8.66E-02		U
Bass	12/11/2018 12:00	Selenium-75	pCi/g	5.94E-03	1.22E-02		U
Bass	12/11/2018 12:00	Silver-108m	pCi/g	3.59E-03	6.66E-03		U
Bass	12/11/2018 12:00	Silver-110m	pCi/g	4.81E-03	1.28E-02		U
Bass	12/11/2018 12:00	Thorium-228	pCi/g	6.28E-03	1.69E-02		U
Bass	12/11/2018 12:00	Zinc-65	pCi/g	-2.87E-03	1.73E-02	2.60E+02	U
Bass	12/11/2018 12:00	Zirconium-95	pCi/g	3.59E-03	1.59E-02		U

Notes:

1. LLDs are a-priori values.
2. MDCs are calculated a-posteriori values.
3. Gamma spectroscopy analysis results are calculated from a measurement using only one gamr
4. Air sample volumes are received in units of ft3. GEL converts the units and reports them as m3

QUALIFIERS:

U Target isotope was analyzed for but not detected above the MDC or LLD.
UI Uncertain identification for gamma spectroscopy.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project
M Reported result is less than the LLD and greater than the MDC.
DL DL MDC > LLD.

Sample Data For: "F-2"

Matrix	Collect Date	Parmname	Units	Result	MDC	LLD	Qualifier
Catfish	5/8/2018 12:00	Actinium-228	pCi/g	-8.33E-03	3.06E-02		U
Catfish	5/8/2018 12:00	Antimony-124	pCi/g	-8.91E-03	1.30E-02		U
Catfish	5/8/2018 12:00	Antimony-125	pCi/g	-3.92E-03	1.51E-02		U
Catfish	5/8/2018 12:00	Barium-140	pCi/g	-5.11E-04	3.30E-02		U
Catfish	5/8/2018 12:00	Beryllium-7	pCi/g	-2.07E-02	5.10E-02		U
Catfish	5/8/2018 12:00	Cerium-141	pCi/g	1.63E-03	1.05E-02		U
Catfish	5/8/2018 12:00	Cerium-144	pCi/g	-9.56E-03	3.75E-02		U
Catfish	5/8/2018 12:00	Cesium-134	pCi/g	1.58E-03	6.98E-03	1.30E+02	U
Catfish	5/8/2018 12:00	Cesium-137	pCi/g	-1.54E-03	6.92E-03	1.50E+02	U
Catfish	5/8/2018 12:00	Chromium-51	pCi/g	1.33E-03	5.81E-02		U
Catfish	5/8/2018 12:00	Cobalt-57	pCi/g	2.17E-03	5.56E-03		U
Catfish	5/8/2018 12:00	Cobalt-58	pCi/g	-6.33E-04	7.19E-03	1.30E+02	U
Catfish	5/8/2018 12:00	Cobalt-60	pCi/g	9.07E-04	8.20E-03	1.30E+02	U
Catfish	5/8/2018 12:00	Iodine-131	pCi/g	3.54E-03	1.18E-02		U
Catfish	5/8/2018 12:00	Iron-59	pCi/g	-2.33E-03	1.57E-02	2.60E+02	U
Catfish	5/8/2018 12:00	Lanthanum-140	pCi/g	-2.92E-03	8.12E-03		U
Catfish	5/8/2018 12:00	Manganese-54	pCi/g	-2.69E-03	5.28E-03	1.30E+02	U
Catfish	5/8/2018 12:00	Niobium-95	pCi/g	1.25E-03	7.24E-03		U
Catfish	5/8/2018 12:00	Potassium-40	pCi/g	1.86E+00	8.13E-02		
Catfish	5/8/2018 12:00	Ruthenium-103	pCi/g	5.53E-04	6.84E-03		U
Catfish	5/8/2018 12:00	Ruthenium-106	pCi/g	1.20E-02	5.21E-02		U
Catfish	5/8/2018 12:00	Selenium-75	pCi/g	-1.13E-03	8.44E-03		U
Catfish	5/8/2018 12:00	Silver-108m	pCi/g	6.34E-04	5.82E-03		U
Catfish	5/8/2018 12:00	Silver-110m	pCi/g	2.23E-03	9.92E-03		U
Catfish	5/8/2018 12:00	Thorium-228	pCi/g	2.94E-03	1.14E-02		U
Catfish	5/8/2018 12:00	Zinc-65	pCi/g	-1.46E-03	1.53E-02	2.60E+02	U
Catfish	5/8/2018 12:00	Zirconium-95	pCi/g	-1.18E-03	1.23E-02		U
Bass	5/8/2018 12:00	Actinium-228	pCi/g	-5.19E-03	3.06E-02		U
Bass	5/8/2018 12:00	Antimony-124	pCi/g	6.26E-03	1.71E-02		U
Bass	5/8/2018 12:00	Antimony-125	pCi/g	-7.09E-03	1.32E-02		U
Bass	5/8/2018 12:00	Barium-140	pCi/g	-2.80E-03	2.11E-02		U
Bass	5/8/2018 12:00	Beryllium-7	pCi/g	1.15E-04	4.47E-02		U
Bass	5/8/2018 12:00	Cerium-141	pCi/g	-2.32E-03	8.93E-03		U
Bass	5/8/2018 12:00	Cerium-144	pCi/g	4.70E-02	3.18E-02		UI
Bass	5/8/2018 12:00	Cesium-134	pCi/g	1.94E-03	7.96E-03	1.30E+02	U
Bass	5/8/2018 12:00	Cesium-137	pCi/g	1.02E-04	6.19E-03	1.50E+02	U
Bass	5/8/2018 12:00	Chromium-51	pCi/g	-1.02E-02	4.42E-02		U
Bass	5/8/2018 12:00	Cobalt-57	pCi/g	1.47E-03	4.27E-03		U
Bass	5/8/2018 12:00	Cobalt-58	pCi/g	1.34E-03	6.72E-03	1.30E+02	U
Bass	5/8/2018 12:00	Cobalt-60	pCi/g	-8.84E-04	7.01E-03	1.30E+02	U
Bass	5/8/2018 12:00	Iodine-131	pCi/g	2.03E-04	8.64E-03		U
Bass	5/8/2018 12:00	Iron-59	pCi/g	-1.03E-03	1.47E-02	2.60E+02	U
Bass	5/8/2018 12:00	Lanthanum-140	pCi/g	-1.67E-03	5.14E-03		U

Bass	5/8/2018 12:00	Manganese-54	pCi/g	-1.82E-03	5.55E-03	1.30E+02	U
Bass	5/8/2018 12:00	Niobium-95	pCi/g	1.69E-03	6.78E-03		U
Bass	5/8/2018 12:00	Potassium-40	pCi/g	2.95E+00	5.04E-02		
Bass	5/8/2018 12:00	Ruthenium-103	pCi/g	-9.31E-04	5.21E-03		U
Bass	5/8/2018 12:00	Ruthenium-106	pCi/g	1.65E-02	6.12E-02		U
Bass	5/8/2018 12:00	Selenium-75	pCi/g	1.21E-03	7.91E-03		U
Bass	5/8/2018 12:00	Silver-108m	pCi/g	-6.36E-04	5.65E-03		U
Bass	5/8/2018 12:00	Silver-110m	pCi/g	2.17E-03	9.47E-03		U
Bass	5/8/2018 12:00	Thorium-228	pCi/g	7.48E-03	1.26E-02		U
Bass	5/8/2018 12:00	Zinc-65	pCi/g	-3.65E-03	1.51E-02	2.60E+02	U
Bass	5/8/2018 12:00	Zirconium-95	pCi/g	-3.95E-04	1.14E-02		U
Catfish	12/11/2018 12:00	Actinium-228	pCi/g	4.39E-02	4.17E-02		UI
Catfish	12/11/2018 12:00	Antimony-124	pCi/g	-1.12E-03	1.40E-02		U
Catfish	12/11/2018 12:00	Antimony-125	pCi/g	3.67E-03	1.84E-02		U
Catfish	12/11/2018 12:00	Barium-140	pCi/g	4.90E-03	3.69E-02		U
Catfish	12/11/2018 12:00	Beryllium-7	pCi/g	4.20E-02	7.28E-02		U
Catfish	12/11/2018 12:00	Cerium-141	pCi/g	6.21E-03	8.54E-03		U
Catfish	12/11/2018 12:00	Cerium-144	pCi/g	2.70E-02	3.72E-02		U
Catfish	12/11/2018 12:00	Cesium-134	pCi/g	-3.38E-03	9.26E-03	1.30E+02	U
Catfish	12/11/2018 12:00	Cesium-137	pCi/g	1.41E-03	8.56E-03	1.50E+02	U
Catfish	12/11/2018 12:00	Chromium-51	pCi/g	-7.96E-03	6.14E-02		U
Catfish	12/11/2018 12:00	Cobalt-57	pCi/g	1.92E-03	4.65E-03		U
Catfish	12/11/2018 12:00	Cobalt-58	pCi/g	-3.80E-03	8.18E-03	1.30E+02	U
Catfish	12/11/2018 12:00	Cobalt-60	pCi/g	3.28E-03	1.04E-02	1.30E+02	U
Catfish	12/11/2018 12:00	Iodine-131	pCi/g	-2.43E-03	1.12E-02		U
Catfish	12/11/2018 12:00	Iron-59	pCi/g	2.70E-03	1.34E-02	2.60E+02	U
Catfish	12/11/2018 12:00	Lanthanum-140	pCi/g	-7.78E-03	7.37E-03		U
Catfish	12/11/2018 12:00	Manganese-54	pCi/g	1.84E-03	8.71E-03	1.30E+02	U
Catfish	12/11/2018 12:00	Niobium-95	pCi/g	6.04E-03	5.28E-03		UI
Catfish	12/11/2018 12:00	Potassium-40	pCi/g	1.78E+00	6.91E-02		
Catfish	12/11/2018 12:00	Ruthenium-103	pCi/g	1.02E-05	6.77E-03		U
Catfish	12/11/2018 12:00	Ruthenium-106	pCi/g	-5.40E-03	5.33E-02		U
Catfish	12/11/2018 12:00	Selenium-75	pCi/g	6.04E-03	9.74E-03		U
Catfish	12/11/2018 12:00	Silver-108m	pCi/g	4.39E-05	6.67E-03		U
Catfish	12/11/2018 12:00	Silver-110m	pCi/g	1.57E-03	1.04E-02		U
Catfish	12/11/2018 12:00	Thorium-228	pCi/g	2.65E-03	1.40E-02		U
Catfish	12/11/2018 12:00	Zinc-65	pCi/g	6.56E-03	2.45E-02	2.60E+02	U
Catfish	12/11/2018 12:00	Zirconium-95	pCi/g	-1.82E-03	1.28E-02		U
Bass	12/11/2018 12:00	Actinium-228	pCi/g	-4.13E-03	3.66E-02		U
Bass	12/11/2018 12:00	Antimony-124	pCi/g	-3.91E-03	9.67E-03		U
Bass	12/11/2018 12:00	Antimony-125	pCi/g	-2.87E-04	2.00E-02		U
Bass	12/11/2018 12:00	Barium-140	pCi/g	7.56E-03	3.45E-02		U
Bass	12/11/2018 12:00	Beryllium-7	pCi/g	-3.85E-02	5.33E-02		U
Bass	12/11/2018 12:00	Cerium-141	pCi/g	-8.70E-03	1.24E-02		U

Bass	12/11/2018 12:00	Cerium-144	pCi/g	-7.18E-03	4.24E-02		U
Bass	12/11/2018 12:00	Cesium-134	pCi/g	-3.27E-03	8.26E-03	1.30E+02	U
Bass	12/11/2018 12:00	Cesium-137	pCi/g	9.71E-04	8.05E-03	1.50E+02	U
Bass	12/11/2018 12:00	Chromium-51	pCi/g	-2.24E-03	6.46E-02		U
Bass	12/11/2018 12:00	Cobalt-57	pCi/g	4.76E-04	6.08E-03		U
Bass	12/11/2018 12:00	Cobalt-58	pCi/g	4.77E-04	7.54E-03	1.30E+02	U
Bass	12/11/2018 12:00	Cobalt-60	pCi/g	-2.87E-03	8.35E-03	1.30E+02	U
Bass	12/11/2018 12:00	Iodine-131	pCi/g	1.46E-03	1.31E-02		U
Bass	12/11/2018 12:00	Iron-59	pCi/g	2.03E-03	1.61E-02	2.60E+02	U
Bass	12/11/2018 12:00	Lanthanum-140	pCi/g	-3.71E-03	6.69E-03		U
Bass	12/11/2018 12:00	Manganese-54	pCi/g	2.70E-03	7.71E-03	1.30E+02	U
Bass	12/11/2018 12:00	Niobium-95	pCi/g	-2.04E-03	7.73E-03		U
Bass	12/11/2018 12:00	Potassium-40	pCi/g	3.53E+00	8.64E-02		
Bass	12/11/2018 12:00	Ruthenium-103	pCi/g	3.14E-04	7.26E-03		U
Bass	12/11/2018 12:00	Ruthenium-106	pCi/g	-3.20E-02	5.72E-02		U
Bass	12/11/2018 12:00	Selenium-75	pCi/g	2.83E-03	8.80E-03		U
Bass	12/11/2018 12:00	Silver-108m	pCi/g	2.92E-04	6.68E-03		U
Bass	12/11/2018 12:00	Silver-110m	pCi/g	4.76E-04	7.88E-03		U
Bass	12/11/2018 12:00	Thorium-228	pCi/g	5.93E-03	1.38E-02		U
Bass	12/11/2018 12:00	Zinc-65	pCi/g	-4.15E-03	1.94E-02	2.60E+02	U
Bass	12/11/2018 12:00	Zirconium-95	pCi/g	2.60E-03	1.50E-02		U

Notes:

1. LLDs are a-priori values.
2. MDCs are calculated a-posteriori values.
3. Gamma spectroscopy analysis results are calculated from a measurement using only one gamr
4. Air sample volumes are received in units of ft3. GEL converts the units and reports them as m3

QUALIFIERS:

U Target isotope was analyzed for but not detected above the MDC or LLD.
UI Uncertain identification for gamma spectroscopy.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project
M Reported result is less than the LLD and greater than the MDC.
DL DL MDC > LLD.

Sample Data For: "F-3"

Matrix	Collect Date	Parmname	Units	Result	MDC	LLD	Qualifier
Catfish	12/11/2018 12:00	Tritium	pCi/g	3.73E+00	1.37E+00	2.00E+00	

The data obtained from this website is the most accurate possible at the time of your query and based upon your specific inquiry. This data does not replace the Certificates of Analysis provided by GEL. Certificates of Analysis undergo an additional level of review before being

Notes:

1. LLDs are a-priori values.
2. MDCs are calculated a-posteriori values.
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QUALIFIERS:

U Target isotope was analyzed for but not detected above the MDC or LLD.
UI Uncertain identification for gamma spectroscopy.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project
M Reported result is less than the LLD and greater than the MDC.
DL DL MDC > LLD.

Broad Leaf	1/30/2018 9:44	Iodine-131	pCi/kg	-7.48E+00	3.10E+01	6.00E+01	U
Broad Leaf	1/30/2018 9:44	Iron-59	pCi/kg	-1.17E+01	4.54E+01		U
Broad Leaf	1/30/2018 9:44	Lanthanum-140	pCi/kg	-3.17E+01	3.16E+01		U
Broad Leaf	1/30/2018 9:44	Manganese-54	pCi/kg	-6.72E-01	2.40E+01		U
Broad Leaf	1/30/2018 9:44	Niobium-95	pCi/kg	2.28E+01	2.45E+01		U
Broad Leaf	1/30/2018 9:44	Potassium-40	pCi/kg	2.73E+03	2.52E+02		
Broad Leaf	1/30/2018 9:44	Ruthenium-103	pCi/kg	-1.14E+01	2.25E+01		U
Broad Leaf	1/30/2018 9:44	Ruthenium-106	pCi/kg	-1.39E+00	2.17E+02		U
Broad Leaf	1/30/2018 9:44	Selenium-75	pCi/kg	-7.00E+00	2.94E+01		U
Broad Leaf	1/30/2018 9:44	Silver-108m	pCi/kg	-1.83E-01	2.08E+01		U
Broad Leaf	1/30/2018 9:44	Silver-110m	pCi/kg	-1.10E+01	3.40E+01		U
Broad Leaf	1/30/2018 9:44	Thorium-228	pCi/kg	-2.96E+01	5.01E+01		U
Broad Leaf	1/30/2018 9:44	Zinc-65	pCi/kg	1.07E+01	5.23E+01		U
Broad Leaf	1/30/2018 9:44	Zirconium-95	pCi/kg	3.52E+00	4.19E+01		U
Broad Leaf	2/27/2018 9:47	Actinium-228	pCi/kg	2.00E+02	2.10E+02		U
Broad Leaf	2/27/2018 9:47	Antimony-124	pCi/kg	1.67E+01	1.11E+02		U
Broad Leaf	2/27/2018 9:47	Antimony-125	pCi/kg	-1.74E+01	1.07E+02		U
Broad Leaf	2/27/2018 9:47	Barium-140	pCi/kg	-6.02E+01	1.67E+02		U
Broad Leaf	2/27/2018 9:47	Beryllium-7	pCi/kg	1.35E+04	3.34E+02		
Broad Leaf	2/27/2018 9:47	Cerium-141	pCi/kg	-6.79E+01	6.10E+01		U
Broad Leaf	2/27/2018 9:47	Cerium-144	pCi/kg	9.46E+01	2.48E+02		U
Broad Leaf	2/27/2018 9:47	Cesium-134	pCi/kg	-3.85E+00	4.41E+01	6.00E+01	U
Broad Leaf	2/27/2018 9:47	Cesium-137	pCi/kg	-8.46E+00	3.95E+01	8.00E+01	U
Broad Leaf	2/27/2018 9:47	Chromium-51	pCi/kg	-1.97E+02	3.45E+02		U
Broad Leaf	2/27/2018 9:47	Cobalt-57	pCi/kg	-1.85E+00	3.07E+01		U
Broad Leaf	2/27/2018 9:47	Cobalt-58	pCi/kg	-5.23E-01	4.03E+01		U
Broad Leaf	2/27/2018 9:47	Cobalt-60	pCi/kg	-7.25E+00	4.28E+01		U
Broad Leaf	2/27/2018 9:47	Iodine-131	pCi/kg	-5.70E+00	5.15E+01	6.00E+01	U
Broad Leaf	2/27/2018 9:47	Iron-59	pCi/kg	-3.29E+01	7.09E+01		U
Broad Leaf	2/27/2018 9:47	Lanthanum-140	pCi/kg	-5.31E+00	5.34E+01		U
Broad Leaf	2/27/2018 9:47	Manganese-54	pCi/kg	6.41E+00	4.56E+01		U
Broad Leaf	2/27/2018 9:47	Niobium-95	pCi/kg	6.62E+00	4.47E+01		U
Broad Leaf	2/27/2018 9:47	Potassium-40	pCi/kg	5.16E+02	4.14E+02		UI
Broad Leaf	2/27/2018 9:47	Ruthenium-103	pCi/kg	1.72E+01	4.11E+01		U
Broad Leaf	2/27/2018 9:47	Ruthenium-106	pCi/kg	1.23E+02	3.70E+02		U
Broad Leaf	2/27/2018 9:47	Selenium-75	pCi/kg	-4.04E+00	5.44E+01		U
Broad Leaf	2/27/2018 9:47	Silver-108m	pCi/kg	5.04E+00	3.72E+01		U
Broad Leaf	2/27/2018 9:47	Silver-110m	pCi/kg	1.26E+01	5.86E+01		U
Broad Leaf	2/27/2018 9:47	Thorium-228	pCi/kg	-9.12E+01	8.24E+01		U
Broad Leaf	2/27/2018 9:47	Zinc-65	pCi/kg	-1.94E+01	7.90E+01		U
Broad Leaf	2/27/2018 9:47	Zirconium-95	pCi/kg	1.31E+02	8.19E+01		UI
Broad Leaf	3/27/2018 10:39	Actinium-228	pCi/kg	2.59E+01	4.06E+01		U
Broad Leaf	3/27/2018 10:39	Antimony-124	pCi/kg	1.32E+00	2.61E+01		U
Broad Leaf	3/27/2018 10:39	Antimony-125	pCi/kg	1.75E+01	2.83E+01		U

Broad Leaf	3/27/2018 10:39	Barium-140	pCi/kg	-8.94E+00	4.04E+01		U
Broad Leaf	3/27/2018 10:39	Beryllium-7	pCi/kg	2.69E+03	8.10E+01		
Broad Leaf	3/27/2018 10:39	Cerium-141	pCi/kg	-8.84E+00	1.36E+01		U
Broad Leaf	3/27/2018 10:39	Cerium-144	pCi/kg	-1.70E+00	5.15E+01		U
Broad Leaf	3/27/2018 10:39	Cesium-134	pCi/kg	3.08E+00	1.26E+01	6.00E+01	U
Broad Leaf	3/27/2018 10:39	Cesium-137	pCi/kg	-3.85E+00	1.07E+01	8.00E+01	U
Broad Leaf	3/27/2018 10:39	Chromium-51	pCi/kg	5.04E+01	9.01E+01		U
Broad Leaf	3/27/2018 10:39	Cobalt-57	pCi/kg	-3.30E-01	7.07E+00		U
Broad Leaf	3/27/2018 10:39	Cobalt-58	pCi/kg	-3.96E+00	9.74E+00		U
Broad Leaf	3/27/2018 10:39	Cobalt-60	pCi/kg	-8.08E-01	1.21E+01		U
Broad Leaf	3/27/2018 10:39	Iodine-131	pCi/kg	-2.03E-01	1.46E+01	6.00E+01	U
Broad Leaf	3/27/2018 10:39	Iron-59	pCi/kg	-6.07E+00	2.19E+01		U
Broad Leaf	3/27/2018 10:39	Lanthanum-140	pCi/kg	5.10E-01	1.65E+01		U
Broad Leaf	3/27/2018 10:39	Manganese-54	pCi/kg	-1.10E+00	1.07E+01		U
Broad Leaf	3/27/2018 10:39	Niobium-95	pCi/kg	2.07E+00	1.08E+01		U
Broad Leaf	3/27/2018 10:39	Potassium-40	pCi/kg	1.47E+03	8.15E+01		
Broad Leaf	3/27/2018 10:39	Ruthenium-103	pCi/kg	-6.87E-01	9.57E+00		U
Broad Leaf	3/27/2018 10:39	Ruthenium-106	pCi/kg	-2.01E+01	9.03E+01		U
Broad Leaf	3/27/2018 10:39	Selenium-75	pCi/kg	5.79E+00	1.31E+01		U
Broad Leaf	3/27/2018 10:39	Silver-108m	pCi/kg	-3.67E+00	8.14E+00		U
Broad Leaf	3/27/2018 10:39	Silver-110m	pCi/kg	2.74E+00	1.45E+01		U
Broad Leaf	3/27/2018 10:39	Thorium-228	pCi/kg	3.99E+00	2.23E+01		U
Broad Leaf	3/27/2018 10:39	Zinc-65	pCi/kg	1.22E+01	2.54E+01		U
Broad Leaf	3/27/2018 10:39	Zirconium-95	pCi/kg	4.46E+00	1.78E+01		U
Broad Leaf	4/24/2018 9:21	Actinium-228	pCi/kg	2.24E+01	1.13E+02		U
Broad Leaf	4/24/2018 9:21	Antimony-124	pCi/kg	5.35E+00	5.47E+01		U
Broad Leaf	4/24/2018 9:21	Antimony-125	pCi/kg	1.98E+01	6.31E+01		U
Broad Leaf	4/24/2018 9:21	Barium-140	pCi/kg	1.90E+01	9.17E+01		U
Broad Leaf	4/24/2018 9:21	Beryllium-7	pCi/kg	1.08E+03	1.78E+02		
Broad Leaf	4/24/2018 9:21	Cerium-141	pCi/kg	-1.24E+01	2.66E+01		U
Broad Leaf	4/24/2018 9:21	Cerium-144	pCi/kg	-3.56E+00	1.08E+02		U
Broad Leaf	4/24/2018 9:21	Cesium-134	pCi/kg	-4.60E+00	2.41E+01	6.00E+01	U
Broad Leaf	4/24/2018 9:21	Cesium-137	pCi/kg	-6.49E+00	2.09E+01	8.00E+01	U
Broad Leaf	4/24/2018 9:21	Chromium-51	pCi/kg	1.52E+01	1.76E+02		U
Broad Leaf	4/24/2018 9:21	Cobalt-57	pCi/kg	1.77E+00	1.44E+01		U
Broad Leaf	4/24/2018 9:21	Cobalt-58	pCi/kg	-4.60E+00	2.23E+01		U
Broad Leaf	4/24/2018 9:21	Cobalt-60	pCi/kg	9.89E-01	2.70E+01		U
Broad Leaf	4/24/2018 9:21	Iodine-131	pCi/kg	-1.32E+01	2.63E+01	6.00E+01	U
Broad Leaf	4/24/2018 9:21	Iron-59	pCi/kg	1.08E+01	5.00E+01		U
Broad Leaf	4/24/2018 9:21	Lanthanum-140	pCi/kg	-2.12E+01	3.09E+01		U
Broad Leaf	4/24/2018 9:21	Manganese-54	pCi/kg	4.87E+00	2.46E+01		U
Broad Leaf	4/24/2018 9:21	Niobium-95	pCi/kg	4.28E+00	2.28E+01		U
Broad Leaf	4/24/2018 9:21	Potassium-40	pCi/kg	5.94E+03	1.97E+02		
Broad Leaf	4/24/2018 9:21	Ruthenium-103	pCi/kg	-5.13E+00	2.10E+01		U

Broad Leaf	4/24/2018 9:21	Ruthenium-106	pCi/kg	-1.26E+01	2.11E+02		U
Broad Leaf	4/24/2018 9:21	Selenium-75	pCi/kg	-6.28E+00	2.49E+01		U
Broad Leaf	4/24/2018 9:21	Silver-108m	pCi/kg	-6.12E-01	1.88E+01		U
Broad Leaf	4/24/2018 9:21	Silver-110m	pCi/kg	-1.74E-01	3.33E+01		U
Broad Leaf	4/24/2018 9:21	Thorium-228	pCi/kg	6.41E+01	3.17E+01		
Broad Leaf	4/24/2018 9:21	Zinc-65	pCi/kg	-8.74E+00	5.57E+01		U
Broad Leaf	4/24/2018 9:21	Zirconium-95	pCi/kg	1.24E+01	4.17E+01		U
Broad Leaf	5/29/2018 9:50	Actinium-228	pCi/kg	9.60E+01	7.59E+01		UI
Broad Leaf	5/29/2018 9:50	Antimony-124	pCi/kg	1.06E+01	3.63E+01		U
Broad Leaf	5/29/2018 9:50	Antimony-125	pCi/kg	-2.35E+01	3.59E+01		U
Broad Leaf	5/29/2018 9:50	Barium-140	pCi/kg	3.62E+01	6.47E+01		U
Broad Leaf	5/29/2018 9:50	Beryllium-7	pCi/kg	1.28E+03	1.19E+02		
Broad Leaf	5/29/2018 9:50	Cerium-141	pCi/kg	1.77E+01	1.91E+01		U
Broad Leaf	5/29/2018 9:50	Cerium-144	pCi/kg	1.17E+00	8.00E+01		U
Broad Leaf	5/29/2018 9:50	Cesium-134	pCi/kg	4.38E+00	1.70E+01	6.00E+01	U
Broad Leaf	5/29/2018 9:50	Cesium-137	pCi/kg	1.24E+01	1.54E+01	8.00E+01	U
Broad Leaf	5/29/2018 9:50	Chromium-51	pCi/kg	5.39E+01	1.14E+02		U
Broad Leaf	5/29/2018 9:50	Cobalt-57	pCi/kg	2.17E+00	1.03E+01		U
Broad Leaf	5/29/2018 9:50	Cobalt-58	pCi/kg	-5.30E+00	1.36E+01		U
Broad Leaf	5/29/2018 9:50	Cobalt-60	pCi/kg	1.19E+01	1.96E+01		U
Broad Leaf	5/29/2018 9:50	Iodine-131	pCi/kg	4.95E+00	1.97E+01	6.00E+01	U
Broad Leaf	5/29/2018 9:50	Iron-59	pCi/kg	-8.23E-01	3.20E+01		U
Broad Leaf	5/29/2018 9:50	Lanthanum-140	pCi/kg	6.21E+00	2.25E+01		U
Broad Leaf	5/29/2018 9:50	Manganese-54	pCi/kg	-1.72E-01	1.39E+01		U
Broad Leaf	5/29/2018 9:50	Niobium-95	pCi/kg	7.63E-01	1.47E+01		U
Broad Leaf	5/29/2018 9:50	Potassium-40	pCi/kg	4.42E+03	1.46E+02		
Broad Leaf	5/29/2018 9:50	Ruthenium-103	pCi/kg	-5.24E+00	1.33E+01		U
Broad Leaf	5/29/2018 9:50	Ruthenium-106	pCi/kg	1.23E+01	1.37E+02		U
Broad Leaf	5/29/2018 9:50	Selenium-75	pCi/kg	-4.61E+00	1.75E+01		U
Broad Leaf	5/29/2018 9:50	Silver-108m	pCi/kg	-2.59E+00	1.17E+01		U
Broad Leaf	5/29/2018 9:50	Silver-110m	pCi/kg	-7.68E+00	2.03E+01		U
Broad Leaf	5/29/2018 9:50	Thorium-228	pCi/kg	2.90E-01	2.99E+01		U
Broad Leaf	5/29/2018 9:50	Zinc-65	pCi/kg	2.82E+00	3.40E+01		U
Broad Leaf	5/29/2018 9:50	Zirconium-95	pCi/kg	-4.48E+00	2.59E+01		U
Broad Leaf	6/26/2018 11:56	Actinium-228	pCi/kg	4.77E+00	1.24E+02		U
Broad Leaf	6/26/2018 11:56	Antimony-124	pCi/kg	7.39E+00	5.03E+01		U
Broad Leaf	6/26/2018 11:56	Antimony-125	pCi/kg	3.93E+00	6.46E+01		U
Broad Leaf	6/26/2018 11:56	Barium-140	pCi/kg	1.82E+01	8.73E+01		U
Broad Leaf	6/26/2018 11:56	Beryllium-7	pCi/kg	7.81E+02	1.71E+02		
Broad Leaf	6/26/2018 11:56	Cerium-141	pCi/kg	4.50E+00	3.27E+01		U
Broad Leaf	6/26/2018 11:56	Cerium-144	pCi/kg	-1.95E+01	1.29E+02		U
Broad Leaf	6/26/2018 11:56	Cesium-134	pCi/kg	-3.35E+00	2.57E+01	6.00E+01	U
Broad Leaf	6/26/2018 11:56	Cesium-137	pCi/kg	-2.46E+00	2.46E+01	8.00E+01	U
Broad Leaf	6/26/2018 11:56	Chromium-51	pCi/kg	-2.76E+01	1.86E+02		U

Broad Leaf	6/26/2018 11:56	Cobalt-57	pCi/kg	5.25E+00	1.85E+01		U
Broad Leaf	6/26/2018 11:56	Cobalt-58	pCi/kg	1.36E+01	2.61E+01		U
Broad Leaf	6/26/2018 11:56	Cobalt-60	pCi/kg	8.19E+00	2.40E+01		U
Broad Leaf	6/26/2018 11:56	Iodine-131	pCi/kg	3.30E+00	2.84E+01	6.00E+01	U
Broad Leaf	6/26/2018 11:56	Iron-59	pCi/kg	-1.10E+00	4.62E+01		U
Broad Leaf	6/26/2018 11:56	Lanthanum-140	pCi/kg	4.88E+00	3.29E+01		U
Broad Leaf	6/26/2018 11:56	Manganese-54	pCi/kg	1.27E+00	2.36E+01		U
Broad Leaf	6/26/2018 11:56	Niobium-95	pCi/kg	9.04E+00	2.97E+01		U
Broad Leaf	6/26/2018 11:56	Potassium-40	pCi/kg	6.37E+03	2.37E+02		
Broad Leaf	6/26/2018 11:56	Ruthenium-103	pCi/kg	7.95E-01	2.11E+01		U
Broad Leaf	6/26/2018 11:56	Ruthenium-106	pCi/kg	-4.55E+01	1.90E+02		U
Broad Leaf	6/26/2018 11:56	Selenium-75	pCi/kg	5.03E-01	3.00E+01		U
Broad Leaf	6/26/2018 11:56	Silver-108m	pCi/kg	-5.91E+00	2.09E+01		U
Broad Leaf	6/26/2018 11:56	Silver-110m	pCi/kg	2.10E+00	3.18E+01		U
Broad Leaf	6/26/2018 11:56	Thorium-228	pCi/kg	7.16E+01	5.67E+01		UI
Broad Leaf	6/26/2018 11:56	Zinc-65	pCi/kg	7.95E+00	6.00E+01		U
Broad Leaf	6/26/2018 11:56	Zirconium-95	pCi/kg	1.01E+00	4.54E+01		U
Broad Leaf	7/31/2018 9:11	Actinium-228	pCi/kg	3.07E+01	2.10E+02		U
Broad Leaf	7/31/2018 9:11	Antimony-124	pCi/kg	-3.63E-02	7.54E+01		U
Broad Leaf	7/31/2018 9:11	Antimony-125	pCi/kg	-1.78E+01	8.67E+01		U
Broad Leaf	7/31/2018 9:11	Barium-140	pCi/kg	1.78E+01	1.50E+02		U
Broad Leaf	7/31/2018 9:11	Beryllium-7	pCi/kg	1.21E+03	3.17E+02		
Broad Leaf	7/31/2018 9:11	Cerium-141	pCi/kg	-1.28E+01	5.69E+01		U
Broad Leaf	7/31/2018 9:11	Cerium-144	pCi/kg	1.09E+01	2.18E+02		U
Broad Leaf	7/31/2018 9:11	Cesium-134	pCi/kg	-9.75E+00	4.23E+01	6.00E+01	U
Broad Leaf	7/31/2018 9:11	Cesium-137	pCi/kg	9.37E+00	3.76E+01	8.00E+01	U
Broad Leaf	7/31/2018 9:11	Chromium-51	pCi/kg	6.47E+01	3.28E+02		U
Broad Leaf	7/31/2018 9:11	Cobalt-57	pCi/kg	5.93E+00	2.91E+01		U
Broad Leaf	7/31/2018 9:11	Cobalt-58	pCi/kg	-3.79E+00	3.91E+01		U
Broad Leaf	7/31/2018 9:11	Cobalt-60	pCi/kg	-1.18E+00	4.02E+01		U
Broad Leaf	7/31/2018 9:11	Iodine-131	pCi/kg	-1.29E+00	4.87E+01	6.00E+01	U
Broad Leaf	7/31/2018 9:11	Iron-59	pCi/kg	1.74E+01	8.57E+01		U
Broad Leaf	7/31/2018 9:11	Lanthanum-140	pCi/kg	1.76E+00	4.14E+01		U
Broad Leaf	7/31/2018 9:11	Manganese-54	pCi/kg	6.95E+00	3.82E+01		U
Broad Leaf	7/31/2018 9:11	Niobium-95	pCi/kg	2.71E+00	3.76E+01		U
Broad Leaf	7/31/2018 9:11	Potassium-40	pCi/kg	8.76E+03	3.58E+02		
Broad Leaf	7/31/2018 9:11	Ruthenium-103	pCi/kg	-4.16E+00	2.95E+01		U
Broad Leaf	7/31/2018 9:11	Ruthenium-106	pCi/kg	-6.20E+01	3.01E+02		U
Broad Leaf	7/31/2018 9:11	Selenium-75	pCi/kg	-6.25E+00	4.61E+01		U
Broad Leaf	7/31/2018 9:11	Silver-108m	pCi/kg	1.20E+00	3.07E+01		U
Broad Leaf	7/31/2018 9:11	Silver-110m	pCi/kg	5.28E+00	4.34E+01		U
Broad Leaf	7/31/2018 9:11	Thorium-228	pCi/kg	8.11E+01	8.31E+01		U
Broad Leaf	7/31/2018 9:11	Zinc-65	pCi/kg	4.00E+01	9.87E+01		U
Broad Leaf	7/31/2018 9:11	Zirconium-95	pCi/kg	-2.80E+01	5.97E+01		U

Broad Leaf	8/28/2018 10:31	Actinium-228	pCi/kg	5.49E+01	8.09E+01		U
Broad Leaf	8/28/2018 10:31	Antimony-124	pCi/kg	8.06E+00	3.25E+01		U
Broad Leaf	8/28/2018 10:31	Antimony-125	pCi/kg	2.23E+00	3.50E+01		U
Broad Leaf	8/28/2018 10:31	Barium-140	pCi/kg	-4.50E+00	7.29E+01		U
Broad Leaf	8/28/2018 10:31	Beryllium-7	pCi/kg	3.51E+02	1.16E+02		
Broad Leaf	8/28/2018 10:31	Cerium-141	pCi/kg	-1.31E+01	1.97E+01		U
Broad Leaf	8/28/2018 10:31	Cerium-144	pCi/kg	1.02E+01	7.56E+01		U
Broad Leaf	8/28/2018 10:31	Cesium-134	pCi/kg	5.14E+00	1.75E+01	6.00E+01	U
Broad Leaf	8/28/2018 10:31	Cesium-137	pCi/kg	-1.60E+00	1.42E+01	8.00E+01	U
Broad Leaf	8/28/2018 10:31	Chromium-51	pCi/kg	-4.91E+01	1.19E+02		U
Broad Leaf	8/28/2018 10:31	Cobalt-57	pCi/kg	5.86E-01	9.51E+00		U
Broad Leaf	8/28/2018 10:31	Cobalt-58	pCi/kg	3.83E+00	1.47E+01		U
Broad Leaf	8/28/2018 10:31	Cobalt-60	pCi/kg	1.59E+00	1.59E+01		U
Broad Leaf	8/28/2018 10:31	Iodine-131	pCi/kg	3.10E+01	2.24E+01	6.00E+01	UI
Broad Leaf	8/28/2018 10:31	Iron-59	pCi/kg	-5.59E+00	2.95E+01		U
Broad Leaf	8/28/2018 10:31	Lanthanum-140	pCi/kg	-5.11E+00	2.57E+01		U
Broad Leaf	8/28/2018 10:31	Manganese-54	pCi/kg	1.24E+00	1.53E+01		U
Broad Leaf	8/28/2018 10:31	Niobium-95	pCi/kg	-2.18E+00	1.53E+01		U
Broad Leaf	8/28/2018 10:31	Potassium-40	pCi/kg	7.22E+03	1.44E+02		
Broad Leaf	8/28/2018 10:31	Ruthenium-103	pCi/kg	3.47E+00	1.53E+01		U
Broad Leaf	8/28/2018 10:31	Ruthenium-106	pCi/kg	1.30E+01	1.32E+02		U
Broad Leaf	8/28/2018 10:31	Selenium-75	pCi/kg	1.58E+00	1.64E+01		U
Broad Leaf	8/28/2018 10:31	Silver-108m	pCi/kg	3.22E+00	1.19E+01		U
Broad Leaf	8/28/2018 10:31	Silver-110m	pCi/kg	-4.47E+00	1.89E+01		U
Broad Leaf	8/28/2018 10:31	Thorium-228	pCi/kg	3.18E+01	2.25E+01		UI
Broad Leaf	8/28/2018 10:31	Zinc-65	pCi/kg	-1.40E+01	3.32E+01		U
Broad Leaf	8/28/2018 10:31	Zirconium-95	pCi/kg	1.11E+01	2.83E+01		U
Broad Leaf	9/25/2018 10:07	Actinium-228	pCi/kg	4.19E+01	1.21E+02		U
Broad Leaf	9/25/2018 10:07	Antimony-124	pCi/kg	8.27E+00	4.84E+01		U
Broad Leaf	9/25/2018 10:07	Antimony-125	pCi/kg	-4.42E+01	4.81E+01		U
Broad Leaf	9/25/2018 10:07	Barium-140	pCi/kg	-7.39E+00	1.01E+02		U
Broad Leaf	9/25/2018 10:07	Beryllium-7	pCi/kg	1.30E+03	1.94E+02		
Broad Leaf	9/25/2018 10:07	Cerium-141	pCi/kg	1.49E+01	3.66E+01		U
Broad Leaf	9/25/2018 10:07	Cerium-144	pCi/kg	-2.96E+01	1.28E+02		U
Broad Leaf	9/25/2018 10:07	Cesium-134	pCi/kg	-7.07E+00	2.70E+01	6.00E+01	U
Broad Leaf	9/25/2018 10:07	Cesium-137	pCi/kg	-3.20E+00	2.30E+01	8.00E+01	U
Broad Leaf	9/25/2018 10:07	Chromium-51	pCi/kg	-7.35E+01	1.79E+02		U
Broad Leaf	9/25/2018 10:07	Cobalt-57	pCi/kg	1.48E+00	1.67E+01		U
Broad Leaf	9/25/2018 10:07	Cobalt-58	pCi/kg	-5.52E+00	2.37E+01		U
Broad Leaf	9/25/2018 10:07	Cobalt-60	pCi/kg	-1.17E+01	2.51E+01		U
Broad Leaf	9/25/2018 10:07	Iodine-131	pCi/kg	4.21E+00	3.52E+01	6.00E+01	U
Broad Leaf	9/25/2018 10:07	Iron-59	pCi/kg	-2.04E+01	5.01E+01		U
Broad Leaf	9/25/2018 10:07	Lanthanum-140	pCi/kg	-2.91E+00	3.71E+01		U
Broad Leaf	9/25/2018 10:07	Manganese-54	pCi/kg	2.13E+00	2.36E+01		U

Broad Leaf	9/25/2018 10:07	Niobium-95	pCi/kg	-1.26E+01	2.50E+01		U
Broad Leaf	9/25/2018 10:07	Potassium-40	pCi/kg	5.67E+03	2.22E+02		
Broad Leaf	9/25/2018 10:07	Ruthenium-103	pCi/kg	4.31E+00	2.54E+01		U
Broad Leaf	9/25/2018 10:07	Ruthenium-106	pCi/kg	3.77E+01	2.14E+02		U
Broad Leaf	9/25/2018 10:07	Selenium-75	pCi/kg	-1.00E+01	2.71E+01		U
Broad Leaf	9/25/2018 10:07	Silver-108m	pCi/kg	-8.28E+00	1.72E+01		U
Broad Leaf	9/25/2018 10:07	Silver-110m	pCi/kg	7.77E+00	3.17E+01		U
Broad Leaf	9/25/2018 10:07	Thorium-228	pCi/kg	3.03E+01	5.28E+01		U
Broad Leaf	9/25/2018 10:07	Zinc-65	pCi/kg	-9.47E+00	5.13E+01		U
Broad Leaf	9/25/2018 10:07	Zirconium-95	pCi/kg	6.43E+00	4.59E+01		U
Broad Leaf	10/30/2018 10:27	Actinium-228	pCi/kg	2.07E+02	1.94E+02		UI
Broad Leaf	10/30/2018 10:27	Antimony-124	pCi/kg	2.11E+01	9.84E+01		U
Broad Leaf	10/30/2018 10:27	Antimony-125	pCi/kg	1.48E+01	9.92E+01		U
Broad Leaf	10/30/2018 10:27	Barium-140	pCi/kg	-7.59E+00	1.80E+02		U
Broad Leaf	10/30/2018 10:27	Beryllium-7	pCi/kg	9.79E+03	3.03E+02		
Broad Leaf	10/30/2018 10:27	Cerium-141	pCi/kg	-8.07E+01	4.67E+01		U
Broad Leaf	10/30/2018 10:27	Cerium-144	pCi/kg	-2.17E+01	1.71E+02		U
Broad Leaf	10/30/2018 10:27	Cesium-134	pCi/kg	6.08E+00	4.54E+01	6.00E+01	U
Broad Leaf	10/30/2018 10:27	Cesium-137	pCi/kg	-1.06E+01	3.68E+01	8.00E+01	U
Broad Leaf	10/30/2018 10:27	Chromium-51	pCi/kg	5.88E+00	3.16E+02		U
Broad Leaf	10/30/2018 10:27	Cobalt-57	pCi/kg	-2.08E+00	2.17E+01		U
Broad Leaf	10/30/2018 10:27	Cobalt-58	pCi/kg	2.83E+01	4.25E+01		U
Broad Leaf	10/30/2018 10:27	Cobalt-60	pCi/kg	1.79E+01	4.57E+01		U
Broad Leaf	10/30/2018 10:27	Iodine-131	pCi/kg	2.57E+01	5.64E+01	6.00E+01	U
Broad Leaf	10/30/2018 10:27	Iron-59	pCi/kg	-4.83E+01	7.47E+01		U
Broad Leaf	10/30/2018 10:27	Lanthanum-140	pCi/kg	2.09E+00	5.66E+01		U
Broad Leaf	10/30/2018 10:27	Manganese-54	pCi/kg	-1.06E+00	3.95E+01		U
Broad Leaf	10/30/2018 10:27	Niobium-95	pCi/kg	2.76E+01	4.47E+01		U
Broad Leaf	10/30/2018 10:27	Potassium-40	pCi/kg	5.91E+03	3.92E+02		
Broad Leaf	10/30/2018 10:27	Ruthenium-103	pCi/kg	6.67E+00	3.55E+01		U
Broad Leaf	10/30/2018 10:27	Ruthenium-106	pCi/kg	1.29E+02	3.70E+02		U
Broad Leaf	10/30/2018 10:27	Selenium-75	pCi/kg	1.48E+01	4.51E+01		U
Broad Leaf	10/30/2018 10:27	Silver-108m	pCi/kg	2.15E+00	3.03E+01		U
Broad Leaf	10/30/2018 10:27	Silver-110m	pCi/kg	3.12E+01	5.84E+01		U
Broad Leaf	10/30/2018 10:27	Thorium-228	pCi/kg	-3.41E+01	6.97E+01		U
Broad Leaf	10/30/2018 10:27	Zinc-65	pCi/kg	6.02E+01	9.91E+01		U
Broad Leaf	10/30/2018 10:27	Zirconium-95	pCi/kg	-2.69E+01	6.59E+01		U
Broad Leaf	11/27/2018 11:24	Actinium-228	pCi/kg	6.53E+01	1.82E+02		U
Broad Leaf	11/27/2018 11:24	Antimony-124	pCi/kg	-9.98E+00	7.27E+01		U
Broad Leaf	11/27/2018 11:24	Antimony-125	pCi/kg	-2.52E+01	1.01E+02		U
Broad Leaf	11/27/2018 11:24	Barium-140	pCi/kg	3.51E+01	2.03E+02		U
Broad Leaf	11/27/2018 11:24	Beryllium-7	pCi/kg	5.81E+03	3.38E+02		
Broad Leaf	11/27/2018 11:24	Cerium-141	pCi/kg	-2.37E+01	5.63E+01		U
Broad Leaf	11/27/2018 11:24	Cerium-144	pCi/kg	3.47E+01	2.20E+02		U

Broad Leaf	11/27/2018 11:24	Cesium-134	pCi/kg	2.55E+01	4.99E+01	6.00E+01	U
Broad Leaf	11/27/2018 11:24	Cesium-137	pCi/kg	3.79E+00	4.07E+01	8.00E+01	U
Broad Leaf	11/27/2018 11:24	Chromium-51	pCi/kg	-6.51E+01	3.54E+02		U
Broad Leaf	11/27/2018 11:24	Cobalt-57	pCi/kg	-1.70E+01	2.71E+01		U
Broad Leaf	11/27/2018 11:24	Cobalt-58	pCi/kg	-2.10E+01	3.83E+01		U
Broad Leaf	11/27/2018 11:24	Cobalt-60	pCi/kg	1.98E+01	4.02E+01		U
Broad Leaf	11/27/2018 11:24	Iodine-131	pCi/kg	6.68E+00	7.42E+01	6.00E+01	DLU
Broad Leaf	11/27/2018 11:24	Iron-59	pCi/kg	8.78E+00	7.37E+01		U
Broad Leaf	11/27/2018 11:24	Lanthanum-140	pCi/kg	-7.85E+00	5.54E+01		U
Broad Leaf	11/27/2018 11:24	Manganese-54	pCi/kg	1.57E+01	4.34E+01		U
Broad Leaf	11/27/2018 11:24	Niobium-95	pCi/kg	8.10E+00	4.24E+01		U
Broad Leaf	11/27/2018 11:24	Potassium-40	pCi/kg	8.93E+03	3.80E+02		
Broad Leaf	11/27/2018 11:24	Ruthenium-103	pCi/kg	7.11E+00	4.08E+01		U
Broad Leaf	11/27/2018 11:24	Ruthenium-106	pCi/kg	-1.04E+02	3.23E+02		U
Broad Leaf	11/27/2018 11:24	Selenium-75	pCi/kg	7.92E+00	5.12E+01		U
Broad Leaf	11/27/2018 11:24	Silver-108m	pCi/kg	8.81E+00	3.89E+01		U
Broad Leaf	11/27/2018 11:24	Silver-110m	pCi/kg	9.86E-01	5.41E+01		U
Broad Leaf	11/27/2018 11:24	Thorium-228	pCi/kg	-7.93E+01	7.50E+01		U
Broad Leaf	11/27/2018 11:24	Zinc-65	pCi/kg	6.35E+00	8.03E+01		U
Broad Leaf	11/27/2018 11:24	Zirconium-95	pCi/kg	-1.27E+01	7.49E+01		U
Broad Leaf	12/25/2018 10:33	Actinium-228	pCi/kg	2.79E+01	1.13E+02		U
Broad Leaf	12/25/2018 10:33	Antimony-124	pCi/kg	-3.82E+01	6.39E+01		U
Broad Leaf	12/25/2018 10:33	Antimony-125	pCi/kg	4.42E+01	8.19E+01		U
Broad Leaf	12/25/2018 10:33	Barium-140	pCi/kg	5.73E+01	1.34E+02		U
Broad Leaf	12/25/2018 10:33	Beryllium-7	pCi/kg	1.10E+04	2.52E+02		
Broad Leaf	12/25/2018 10:33	Cerium-141	pCi/kg	5.54E+01	3.85E+01		UI
Broad Leaf	12/25/2018 10:33	Cerium-144	pCi/kg	-6.47E+01	1.59E+02		U
Broad Leaf	12/25/2018 10:33	Cesium-134	pCi/kg	9.30E+00	3.26E+01	6.00E+01	U
Broad Leaf	12/25/2018 10:33	Cesium-137	pCi/kg	3.51E+01	3.19E+01	8.00E+01	UI
Broad Leaf	12/25/2018 10:33	Chromium-51	pCi/kg	-2.13E+01	2.58E+02		U
Broad Leaf	12/25/2018 10:33	Cobalt-57	pCi/kg	-8.64E+00	2.06E+01		U
Broad Leaf	12/25/2018 10:33	Cobalt-58	pCi/kg	-5.08E+00	2.85E+01		U
Broad Leaf	12/25/2018 10:33	Cobalt-60	pCi/kg	5.42E+00	3.24E+01		U
Broad Leaf	12/25/2018 10:33	Iodine-131	pCi/kg	1.09E+00	4.10E+01	6.00E+01	U
Broad Leaf	12/25/2018 10:33	Iron-59	pCi/kg	2.70E+01	6.19E+01		U
Broad Leaf	12/25/2018 10:33	Lanthanum-140	pCi/kg	1.78E+01	4.49E+01		U
Broad Leaf	12/25/2018 10:33	Manganese-54	pCi/kg	-8.01E+00	2.80E+01		U
Broad Leaf	12/25/2018 10:33	Niobium-95	pCi/kg	-3.04E+01	3.11E+01		U
Broad Leaf	12/25/2018 10:33	Potassium-40	pCi/kg	2.00E+03	2.77E+02		
Broad Leaf	12/25/2018 10:33	Ruthenium-103	pCi/kg	4.63E+00	2.94E+01		U
Broad Leaf	12/25/2018 10:33	Ruthenium-106	pCi/kg	-2.77E+01	2.71E+02		U
Broad Leaf	12/25/2018 10:33	Selenium-75	pCi/kg	3.44E+00	3.88E+01		U
Broad Leaf	12/25/2018 10:33	Silver-108m	pCi/kg	-1.86E+00	2.69E+01		U
Broad Leaf	12/25/2018 10:33	Silver-110m	pCi/kg	-1.91E+01	3.52E+01		U

Broad Leaf	12/25/2018 10:33	Thorium-228	pCi/kg	2.59E+00	5.15E+01		U
Broad Leaf	12/25/2018 10:33	Zinc-65	pCi/kg	-2.94E+01	6.33E+01		U
Broad Leaf	12/25/2018 10:33	Zirconium-95	pCi/kg	-3.21E+01	5.19E+01		U

The data obtained from this website is the most accurate possible at the time of your query and based upon your specific inquiry. This data does not replace the Certificates of Analysis provided by GEL. Certificates of Analysis undergo an additional level of review before being sent to the client that

Notes:

1. LLDs are a-priori values.
2. MDCs are calculated a-posteriori values.
3. Gamma spectroscopy analysis results are calculated from a measurement using only one gamma en
4. Air sample volumes are received in units of ft3. GEL converts the units and reports them as m3.

QUALIFIERS:

U Target isotope was analyzed for but not detected above the MDC or LLD.
UI Uncertain identification for gamma spectroscopy.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project mana
M Reported result is less than the LLD and greater than the MDC.
DL DL MDC > LLD.

Sample Data For: "BL-2"

Matrix	Collect Date	Parmname	Units	Result	MDC	LLD	Qualifier
Broad Leaf	1/30/2018 8:19	Actinium-228	pCi/kg	-1.05E+02	8.53E+01		U
Broad Leaf	1/30/2018 8:19	Antimony-124	pCi/kg	5.72E+00	4.11E+01		U
Broad Leaf	1/30/2018 8:19	Antimony-125	pCi/kg	4.73E+00	4.88E+01		U
Broad Leaf	1/30/2018 8:19	Barium-140	pCi/kg	-1.67E+01	7.18E+01		U
Broad Leaf	1/30/2018 8:19	Beryllium-7	pCi/kg	5.24E+03	1.40E+02		
Broad Leaf	1/30/2018 8:19	Cerium-141	pCi/kg	4.80E+00	2.55E+01		U
Broad Leaf	1/30/2018 8:19	Cerium-144	pCi/kg	4.06E+00	1.04E+02		U
Broad Leaf	1/30/2018 8:19	Cesium-134	pCi/kg	3.95E-01	1.98E+01	6.00E+01	U
Broad Leaf	1/30/2018 8:19	Cesium-137	pCi/kg	3.72E+00	1.82E+01	8.00E+01	U
Broad Leaf	1/30/2018 8:19	Chromium-51	pCi/kg	-3.16E+01	1.52E+02		U
Broad Leaf	1/30/2018 8:19	Cobalt-57	pCi/kg	-2.44E+00	1.31E+01		U
Broad Leaf	1/30/2018 8:19	Cobalt-58	pCi/kg	1.14E+00	1.69E+01		U
Broad Leaf	1/30/2018 8:19	Cobalt-60	pCi/kg	7.11E+00	2.09E+01		U
Broad Leaf	1/30/2018 8:19	Iodine-131	pCi/kg	-3.56E+00	2.28E+01	6.00E+01	U
Broad Leaf	1/30/2018 8:19	Iron-59	pCi/kg	6.18E+00	3.46E+01		U
Broad Leaf	1/30/2018 8:19	Lanthanum-140	pCi/kg	3.36E+00	2.46E+01		U
Broad Leaf	1/30/2018 8:19	Manganese-54	pCi/kg	-1.55E+00	1.68E+01		U
Broad Leaf	1/30/2018 8:19	Niobium-95	pCi/kg	-1.66E+01	1.90E+01		U
Broad Leaf	1/30/2018 8:19	Potassium-40	pCi/kg	8.66E+02	1.60E+02		

Broad Leaf	1/30/2018 8:19	Ruthenium-103	pCi/kg	-6.11E+00	1.67E+01		U
Broad Leaf	1/30/2018 8:19	Ruthenium-106	pCi/kg	1.06E+02	1.55E+02		U
Broad Leaf	1/30/2018 8:19	Selenium-75	pCi/kg	9.85E+00	2.38E+01		U
Broad Leaf	1/30/2018 8:19	Silver-108m	pCi/kg	-1.34E+00	1.56E+01		U
Broad Leaf	1/30/2018 8:19	Silver-110m	pCi/kg	-1.67E+00	2.33E+01		U
Broad Leaf	1/30/2018 8:19	Thorium-228	pCi/kg	4.35E+00	3.87E+01		U
Broad Leaf	1/30/2018 8:19	Zinc-65	pCi/kg	1.01E+01	3.86E+01		U
Broad Leaf	1/30/2018 8:19	Zirconium-95	pCi/kg	1.89E-01	2.83E+01		U
Broad Leaf	2/27/2018 8:08	Actinium-228	pCi/kg	2.96E+01	1.40E+02		U
Broad Leaf	2/27/2018 8:08	Antimony-124	pCi/kg	2.93E+01	6.72E+01		U
Broad Leaf	2/27/2018 8:08	Antimony-125	pCi/kg	-2.34E+01	7.10E+01		U
Broad Leaf	2/27/2018 8:08	Barium-140	pCi/kg	-1.12E+01	1.12E+02		U
Broad Leaf	2/27/2018 8:08	Beryllium-7	pCi/kg	9.83E+03	2.22E+02		
Broad Leaf	2/27/2018 8:08	Cerium-141	pCi/kg	1.21E+01	4.39E+01		U
Broad Leaf	2/27/2018 8:08	Cerium-144	pCi/kg	7.45E+01	1.63E+02		U
Broad Leaf	2/27/2018 8:08	Cesium-134	pCi/kg	1.15E+01	3.25E+01	6.00E+01	U
Broad Leaf	2/27/2018 8:08	Cesium-137	pCi/kg	5.01E+00	3.09E+01	8.00E+01	U
Broad Leaf	2/27/2018 8:08	Chromium-51	pCi/kg	-1.47E+01	2.44E+02		U
Broad Leaf	2/27/2018 8:08	Cobalt-57	pCi/kg	-1.42E+00	2.08E+01		U
Broad Leaf	2/27/2018 8:08	Cobalt-58	pCi/kg	-7.86E+00	2.59E+01		U
Broad Leaf	2/27/2018 8:08	Cobalt-60	pCi/kg	-1.86E+01	2.98E+01		U
Broad Leaf	2/27/2018 8:08	Iodine-131	pCi/kg	-7.83E+00	3.74E+01	6.00E+01	U
Broad Leaf	2/27/2018 8:08	Iron-59	pCi/kg	-2.71E+01	5.00E+01		U
Broad Leaf	2/27/2018 8:08	Lanthanum-140	pCi/kg	-1.27E+00	3.27E+01		U
Broad Leaf	2/27/2018 8:08	Manganese-54	pCi/kg	-5.82E+00	2.78E+01		U
Broad Leaf	2/27/2018 8:08	Niobium-95	pCi/kg	2.41E+01	2.95E+01		U
Broad Leaf	2/27/2018 8:08	Potassium-40	pCi/kg	1.14E+03	2.85E+02		
Broad Leaf	2/27/2018 8:08	Ruthenium-103	pCi/kg	-2.11E+00	2.79E+01		U
Broad Leaf	2/27/2018 8:08	Ruthenium-106	pCi/kg	-4.71E+01	2.70E+02		U
Broad Leaf	2/27/2018 8:08	Selenium-75	pCi/kg	4.47E+00	3.78E+01		U
Broad Leaf	2/27/2018 8:08	Silver-108m	pCi/kg	7.29E+00	2.47E+01		U
Broad Leaf	2/27/2018 8:08	Silver-110m	pCi/kg	-6.49E+00	3.60E+01		U
Broad Leaf	2/27/2018 8:08	Thorium-228	pCi/kg	7.25E+00	5.21E+01		U
Broad Leaf	2/27/2018 8:08	Zinc-65	pCi/kg	-8.43E-01	5.65E+01		U
Broad Leaf	2/27/2018 8:08	Zirconium-95	pCi/kg	3.87E+00	5.13E+01		U
Broad Leaf	3/27/2018 12:59	Actinium-228	pCi/kg	-3.01E+01	3.85E+01		U
Broad Leaf	3/27/2018 12:59	Antimony-124	pCi/kg	-1.49E+00	2.11E+01		U
Broad Leaf	3/27/2018 12:59	Antimony-125	pCi/kg	-2.55E+00	2.30E+01		U
Broad Leaf	3/27/2018 12:59	Barium-140	pCi/kg	1.42E+01	3.49E+01		U
Broad Leaf	3/27/2018 12:59	Beryllium-7	pCi/kg	4.31E+03	7.07E+01		
Broad Leaf	3/27/2018 12:59	Cerium-141	pCi/kg	-2.92E+00	1.27E+01		U
Broad Leaf	3/27/2018 12:59	Cerium-144	pCi/kg	5.23E+00	5.16E+01		U
Broad Leaf	3/27/2018 12:59	Cesium-134	pCi/kg	-2.86E+00	8.69E+00	6.00E+01	U
Broad Leaf	3/27/2018 12:59	Cesium-137	pCi/kg	8.80E-01	8.91E+00	8.00E+01	U

Broad Leaf	3/27/2018 12:59	Chromium-51	pCi/kg	3.01E+01	8.20E+01		U
Broad Leaf	3/27/2018 12:59	Cobalt-57	pCi/kg	4.36E-01	6.89E+00		U
Broad Leaf	3/27/2018 12:59	Cobalt-58	pCi/kg	-2.74E+00	7.46E+00		U
Broad Leaf	3/27/2018 12:59	Cobalt-60	pCi/kg	4.61E-01	9.77E+00		U
Broad Leaf	3/27/2018 12:59	Iodine-131	pCi/kg	3.72E+00	1.16E+01	6.00E+01	U
Broad Leaf	3/27/2018 12:59	Iron-59	pCi/kg	1.36E+01	1.98E+01		U
Broad Leaf	3/27/2018 12:59	Lanthanum-140	pCi/kg	-3.47E+00	1.14E+01		U
Broad Leaf	3/27/2018 12:59	Manganese-54	pCi/kg	5.54E+00	9.30E+00		U
Broad Leaf	3/27/2018 12:59	Niobium-95	pCi/kg	2.02E+00	9.50E+00		U
Broad Leaf	3/27/2018 12:59	Potassium-40	pCi/kg	1.39E+03	1.02E+02		
Broad Leaf	3/27/2018 12:59	Ruthenium-103	pCi/kg	-1.22E+00	8.55E+00		U
Broad Leaf	3/27/2018 12:59	Ruthenium-106	pCi/kg	-4.64E+00	7.76E+01		U
Broad Leaf	3/27/2018 12:59	Selenium-75	pCi/kg	-5.39E+00	1.11E+01		U
Broad Leaf	3/27/2018 12:59	Silver-108m	pCi/kg	-1.68E+00	6.84E+00		U
Broad Leaf	3/27/2018 12:59	Silver-110m	pCi/kg	4.57E-01	1.18E+01		U
Broad Leaf	3/27/2018 12:59	Thorium-228	pCi/kg	1.62E+01	1.87E+01		U
Broad Leaf	3/27/2018 12:59	Zinc-65	pCi/kg	-2.45E+00	1.89E+01		U
Broad Leaf	3/27/2018 12:59	Zirconium-95	pCi/kg	2.55E+00	1.49E+01		U
Broad Leaf	4/24/2018 8:03	Actinium-228	pCi/kg	-9.57E+00	1.44E+02		U
Broad Leaf	4/24/2018 8:03	Antimony-124	pCi/kg	3.75E+01	8.81E+01		U
Broad Leaf	4/24/2018 8:03	Antimony-125	pCi/kg	-1.43E+01	7.74E+01		U
Broad Leaf	4/24/2018 8:03	Barium-140	pCi/kg	-1.99E+01	1.55E+02		U
Broad Leaf	4/24/2018 8:03	Beryllium-7	pCi/kg	3.27E+03	2.32E+02		
Broad Leaf	4/24/2018 8:03	Cerium-141	pCi/kg	-2.32E+00	4.41E+01		U
Broad Leaf	4/24/2018 8:03	Cerium-144	pCi/kg	2.32E+01	1.60E+02		U
Broad Leaf	4/24/2018 8:03	Cesium-134	pCi/kg	7.88E+00	3.36E+01	6.00E+01	U
Broad Leaf	4/24/2018 8:03	Cesium-137	pCi/kg	3.00E+01	3.14E+01	8.00E+01	U
Broad Leaf	4/24/2018 8:03	Chromium-51	pCi/kg	5.16E+00	2.73E+02		U
Broad Leaf	4/24/2018 8:03	Cobalt-57	pCi/kg	3.31E+00	1.96E+01		U
Broad Leaf	4/24/2018 8:03	Cobalt-58	pCi/kg	-9.72E+00	2.35E+01		U
Broad Leaf	4/24/2018 8:03	Cobalt-60	pCi/kg	9.73E+00	4.05E+01		U
Broad Leaf	4/24/2018 8:03	Iodine-131	pCi/kg	2.32E+01	5.21E+01	6.00E+01	U
Broad Leaf	4/24/2018 8:03	Iron-59	pCi/kg	-9.27E+00	7.15E+01		U
Broad Leaf	4/24/2018 8:03	Lanthanum-140	pCi/kg	-2.75E+01	3.62E+01		U
Broad Leaf	4/24/2018 8:03	Manganese-54	pCi/kg	6.07E+00	2.86E+01		U
Broad Leaf	4/24/2018 8:03	Niobium-95	pCi/kg	1.17E+01	3.87E+01		U
Broad Leaf	4/24/2018 8:03	Potassium-40	pCi/kg	3.23E+03	3.26E+02		
Broad Leaf	4/24/2018 8:03	Ruthenium-103	pCi/kg	-1.28E+01	2.89E+01		U
Broad Leaf	4/24/2018 8:03	Ruthenium-106	pCi/kg	7.83E+00	2.45E+02		U
Broad Leaf	4/24/2018 8:03	Selenium-75	pCi/kg	-1.39E+00	3.24E+01		U
Broad Leaf	4/24/2018 8:03	Silver-108m	pCi/kg	-5.43E+00	2.43E+01		U
Broad Leaf	4/24/2018 8:03	Silver-110m	pCi/kg	6.27E+00	3.84E+01		U
Broad Leaf	4/24/2018 8:03	Thorium-228	pCi/kg	-5.74E+00	6.19E+01		U
Broad Leaf	4/24/2018 8:03	Zinc-65	pCi/kg	2.12E+01	6.90E+01		U

Broad Leaf	4/24/2018 8:03	Zirconium-95	pCi/kg	-1.99E+01	4.26E+01		U
Broad Leaf	5/29/2018 8:37	Actinium-228	pCi/kg	1.41E+01	5.75E+01		U
Broad Leaf	5/29/2018 8:37	Antimony-124	pCi/kg	4.23E+00	2.64E+01		U
Broad Leaf	5/29/2018 8:37	Antimony-125	pCi/kg	-8.67E+00	2.70E+01		U
Broad Leaf	5/29/2018 8:37	Barium-140	pCi/kg	-4.06E-01	4.67E+01		U
Broad Leaf	5/29/2018 8:37	Beryllium-7	pCi/kg	5.89E+02	8.37E+01		
Broad Leaf	5/29/2018 8:37	Cerium-141	pCi/kg	-3.28E+01	1.45E+01		U
Broad Leaf	5/29/2018 8:37	Cerium-144	pCi/kg	1.51E+01	5.89E+01		U
Broad Leaf	5/29/2018 8:37	Cesium-134	pCi/kg	-1.91E+00	1.30E+01	6.00E+01	U
Broad Leaf	5/29/2018 8:37	Cesium-137	pCi/kg	-5.97E+00	1.58E+01	8.00E+01	U
Broad Leaf	5/29/2018 8:37	Chromium-51	pCi/kg	-2.84E+00	9.12E+01		U
Broad Leaf	5/29/2018 8:37	Cobalt-57	pCi/kg	-2.87E+00	7.38E+00		U
Broad Leaf	5/29/2018 8:37	Cobalt-58	pCi/kg	-1.40E+00	1.02E+01		U
Broad Leaf	5/29/2018 8:37	Cobalt-60	pCi/kg	4.85E+00	1.32E+01		U
Broad Leaf	5/29/2018 8:37	Iodine-131	pCi/kg	4.33E+00	1.47E+01	6.00E+01	U
Broad Leaf	5/29/2018 8:37	Iron-59	pCi/kg	1.97E+00	2.29E+01		U
Broad Leaf	5/29/2018 8:37	Lanthanum-140	pCi/kg	-4.35E+00	1.58E+01		U
Broad Leaf	5/29/2018 8:37	Manganese-54	pCi/kg	-1.87E+00	1.09E+01		U
Broad Leaf	5/29/2018 8:37	Niobium-95	pCi/kg	1.11E+01	1.08E+01		UI
Broad Leaf	5/29/2018 8:37	Potassium-40	pCi/kg	4.95E+03	1.12E+02		
Broad Leaf	5/29/2018 8:37	Ruthenium-103	pCi/kg	1.09E+00	1.03E+01		U
Broad Leaf	5/29/2018 8:37	Ruthenium-106	pCi/kg	1.55E+00	9.48E+01		U
Broad Leaf	5/29/2018 8:37	Selenium-75	pCi/kg	1.12E+00	1.30E+01		U
Broad Leaf	5/29/2018 8:37	Silver-108m	pCi/kg	1.64E-01	9.24E+00		U
Broad Leaf	5/29/2018 8:37	Silver-110m	pCi/kg	-4.86E+00	1.58E+01		U
Broad Leaf	5/29/2018 8:37	Thorium-228	pCi/kg	-1.12E+01	2.26E+01		U
Broad Leaf	5/29/2018 8:37	Zinc-65	pCi/kg	-2.12E+00	2.34E+01		U
Broad Leaf	5/29/2018 8:37	Zirconium-95	pCi/kg	8.10E+00	2.01E+01		U
Broad Leaf	6/26/2018 10:10	Actinium-228	pCi/kg	8.86E+01	1.32E+02		U
Broad Leaf	6/26/2018 10:10	Antimony-124	pCi/kg	-9.82E+00	4.57E+01		U
Broad Leaf	6/26/2018 10:10	Antimony-125	pCi/kg	-8.47E+00	5.88E+01		U
Broad Leaf	6/26/2018 10:10	Barium-140	pCi/kg	-1.06E+01	1.08E+02		U
Broad Leaf	6/26/2018 10:10	Beryllium-7	pCi/kg	1.09E+03	1.79E+02		
Broad Leaf	6/26/2018 10:10	Cerium-141	pCi/kg	-2.05E+01	3.03E+01		U
Broad Leaf	6/26/2018 10:10	Cerium-144	pCi/kg	-1.10E+01	1.18E+02		U
Broad Leaf	6/26/2018 10:10	Cesium-134	pCi/kg	7.92E+00	2.85E+01	6.00E+01	U
Broad Leaf	6/26/2018 10:10	Cesium-137	pCi/kg	9.42E+00	2.38E+01	8.00E+01	U
Broad Leaf	6/26/2018 10:10	Chromium-51	pCi/kg	4.42E+01	1.97E+02		U
Broad Leaf	6/26/2018 10:10	Cobalt-57	pCi/kg	3.54E+00	1.51E+01		U
Broad Leaf	6/26/2018 10:10	Cobalt-58	pCi/kg	-8.09E+00	2.09E+01		U
Broad Leaf	6/26/2018 10:10	Cobalt-60	pCi/kg	2.76E+00	2.91E+01		U
Broad Leaf	6/26/2018 10:10	Iodine-131	pCi/kg	3.17E+01	2.88E+01	6.00E+01	UI
Broad Leaf	6/26/2018 10:10	Iron-59	pCi/kg	2.08E+00	4.78E+01		U
Broad Leaf	6/26/2018 10:10	Lanthanum-140	pCi/kg	-9.79E+00	3.16E+01		U

Broad Leaf	6/26/2018 10:10	Manganese-54	pCi/kg	4.16E+00	2.27E+01		U
Broad Leaf	6/26/2018 10:10	Niobium-95	pCi/kg	-3.45E+00	2.44E+01		U
Broad Leaf	6/26/2018 10:10	Potassium-40	pCi/kg	6.48E+03	2.09E+02		
Broad Leaf	6/26/2018 10:10	Ruthenium-103	pCi/kg	2.25E+00	2.29E+01		U
Broad Leaf	6/26/2018 10:10	Ruthenium-106	pCi/kg	-1.29E+02	2.03E+02		U
Broad Leaf	6/26/2018 10:10	Selenium-75	pCi/kg	-1.55E+00	2.62E+01		U
Broad Leaf	6/26/2018 10:10	Silver-108m	pCi/kg	-4.37E+00	1.85E+01		U
Broad Leaf	6/26/2018 10:10	Silver-110m	pCi/kg	3.77E+00	3.20E+01		U
Broad Leaf	6/26/2018 10:10	Thorium-228	pCi/kg	-8.53E+00	4.25E+01		U
Broad Leaf	6/26/2018 10:10	Zinc-65	pCi/kg	-2.45E+01	5.57E+01		U
Broad Leaf	6/26/2018 10:10	Zirconium-95	pCi/kg	-1.11E+01	3.98E+01		U
Broad Leaf	7/31/2018 7:48	Actinium-228	pCi/kg	6.13E+01	2.29E+02		U
Broad Leaf	7/31/2018 7:48	Antimony-124	pCi/kg	5.93E+00	9.87E+01		U
Broad Leaf	7/31/2018 7:48	Antimony-125	pCi/kg	-1.23E+01	1.04E+02		U
Broad Leaf	7/31/2018 7:48	Barium-140	pCi/kg	-2.43E+01	1.72E+02		U
Broad Leaf	7/31/2018 7:48	Beryllium-7	pCi/kg	1.43E+03	3.42E+02		
Broad Leaf	7/31/2018 7:48	Cerium-141	pCi/kg	3.20E+01	5.46E+01		U
Broad Leaf	7/31/2018 7:48	Cerium-144	pCi/kg	9.11E+01	2.36E+02		U
Broad Leaf	7/31/2018 7:48	Cesium-134	pCi/kg	6.77E+00	4.84E+01	6.00E+01	U
Broad Leaf	7/31/2018 7:48	Cesium-137	pCi/kg	-4.73E+00	4.49E+01	8.00E+01	U
Broad Leaf	7/31/2018 7:48	Chromium-51	pCi/kg	2.52E+02	3.08E+02		U
Broad Leaf	7/31/2018 7:48	Cobalt-57	pCi/kg	3.60E+00	2.81E+01		U
Broad Leaf	7/31/2018 7:48	Cobalt-58	pCi/kg	-4.86E+00	3.71E+01		U
Broad Leaf	7/31/2018 7:48	Cobalt-60	pCi/kg	3.60E+01	5.28E+01		U
Broad Leaf	7/31/2018 7:48	Iodine-131	pCi/kg	-2.33E+01	4.86E+01	6.00E+01	U
Broad Leaf	7/31/2018 7:48	Iron-59	pCi/kg	-2.66E+01	7.90E+01		U
Broad Leaf	7/31/2018 7:48	Lanthanum-140	pCi/kg	-1.88E+01	3.91E+01		U
Broad Leaf	7/31/2018 7:48	Manganese-54	pCi/kg	-2.69E-01	4.11E+01		U
Broad Leaf	7/31/2018 7:48	Niobium-95	pCi/kg	-3.91E+01	3.33E+01		U
Broad Leaf	7/31/2018 7:48	Potassium-40	pCi/kg	7.62E+03	4.26E+02		
Broad Leaf	7/31/2018 7:48	Ruthenium-103	pCi/kg	-2.76E+01	3.29E+01		U
Broad Leaf	7/31/2018 7:48	Ruthenium-106	pCi/kg	2.25E+02	3.98E+02		U
Broad Leaf	7/31/2018 7:48	Selenium-75	pCi/kg	1.85E+01	4.92E+01		U
Broad Leaf	7/31/2018 7:48	Silver-108m	pCi/kg	1.02E+01	3.59E+01		U
Broad Leaf	7/31/2018 7:48	Silver-110m	pCi/kg	-4.59E+00	6.29E+01		U
Broad Leaf	7/31/2018 7:48	Thorium-228	pCi/kg	4.25E+01	6.44E+01		U
Broad Leaf	7/31/2018 7:48	Zinc-65	pCi/kg	-5.52E+01	7.74E+01		U
Broad Leaf	7/31/2018 7:48	Zirconium-95	pCi/kg	-9.97E+00	7.26E+01		U
Broad Leaf	8/28/2018 9:14	Actinium-228	pCi/kg	3.10E+00	6.10E+01		U
Broad Leaf	8/28/2018 9:14	Antimony-124	pCi/kg	-5.75E+00	2.94E+01		U
Broad Leaf	8/28/2018 9:14	Antimony-125	pCi/kg	-4.05E+00	3.09E+01		U
Broad Leaf	8/28/2018 9:14	Barium-140	pCi/kg	-7.13E+00	5.43E+01		U
Broad Leaf	8/28/2018 9:14	Beryllium-7	pCi/kg	7.88E+02	1.06E+02		
Broad Leaf	8/28/2018 9:14	Cerium-141	pCi/kg	-3.60E+00	1.78E+01		U

Broad Leaf	8/28/2018 9:14	Cerium-144	pCi/kg	-8.20E+00	6.81E+01		U
Broad Leaf	8/28/2018 9:14	Cesium-134	pCi/kg	-1.85E+00	1.37E+01	6.00E+01	U
Broad Leaf	8/28/2018 9:14	Cesium-137	pCi/kg	1.76E+00	1.37E+01	8.00E+01	U
Broad Leaf	8/28/2018 9:14	Chromium-51	pCi/kg	7.73E+00	1.10E+02		U
Broad Leaf	8/28/2018 9:14	Cobalt-57	pCi/kg	-3.04E+00	8.82E+00		U
Broad Leaf	8/28/2018 9:14	Cobalt-58	pCi/kg	3.25E+00	1.27E+01		U
Broad Leaf	8/28/2018 9:14	Cobalt-60	pCi/kg	3.42E+00	1.50E+01		U
Broad Leaf	8/28/2018 9:14	Iodine-131	pCi/kg	6.40E+00	2.24E+01	6.00E+01	U
Broad Leaf	8/28/2018 9:14	Iron-59	pCi/kg	4.99E+00	2.93E+01		U
Broad Leaf	8/28/2018 9:14	Lanthanum-140	pCi/kg	2.78E+00	1.89E+01		U
Broad Leaf	8/28/2018 9:14	Manganese-54	pCi/kg	2.95E+00	1.38E+01		U
Broad Leaf	8/28/2018 9:14	Niobium-95	pCi/kg	-1.28E+01	1.33E+01		U
Broad Leaf	8/28/2018 9:14	Potassium-40	pCi/kg	6.70E+03	1.13E+02		
Broad Leaf	8/28/2018 9:14	Ruthenium-103	pCi/kg	1.20E+00	1.25E+01		U
Broad Leaf	8/28/2018 9:14	Ruthenium-106	pCi/kg	-1.93E+01	1.16E+02		U
Broad Leaf	8/28/2018 9:14	Selenium-75	pCi/kg	3.35E-01	1.53E+01		U
Broad Leaf	8/28/2018 9:14	Silver-108m	pCi/kg	9.50E-01	1.10E+01		U
Broad Leaf	8/28/2018 9:14	Silver-110m	pCi/kg	-3.72E+00	1.83E+01		U
Broad Leaf	8/28/2018 9:14	Thorium-228	pCi/kg	3.08E+00	2.02E+01		U
Broad Leaf	8/28/2018 9:14	Zinc-65	pCi/kg	4.82E+00	3.12E+01		U
Broad Leaf	8/28/2018 9:14	Zirconium-95	pCi/kg	-1.81E+00	2.33E+01		U
Broad Leaf	9/25/2018 8:13	Actinium-228	pCi/kg	4.26E+01	1.04E+02		U
Broad Leaf	9/25/2018 8:13	Antimony-124	pCi/kg	-4.74E+00	2.43E+01		U
Broad Leaf	9/25/2018 8:13	Antimony-125	pCi/kg	3.67E+00	5.49E+01		U
Broad Leaf	9/25/2018 8:13	Barium-140	pCi/kg	9.56E+01	9.85E+01		U
Broad Leaf	9/25/2018 8:13	Beryllium-7	pCi/kg	1.10E+03	1.59E+02		
Broad Leaf	9/25/2018 8:13	Cerium-141	pCi/kg	-6.43E+00	3.04E+01		U
Broad Leaf	9/25/2018 8:13	Cerium-144	pCi/kg	-3.22E+01	1.12E+02		U
Broad Leaf	9/25/2018 8:13	Cesium-134	pCi/kg	-4.97E+00	1.85E+01	6.00E+01	U
Broad Leaf	9/25/2018 8:13	Cesium-137	pCi/kg	7.15E+00	2.20E+01	8.00E+01	U
Broad Leaf	9/25/2018 8:13	Chromium-51	pCi/kg	4.26E+01	1.81E+02		U
Broad Leaf	9/25/2018 8:13	Cobalt-57	pCi/kg	-1.79E+00	1.47E+01		U
Broad Leaf	9/25/2018 8:13	Cobalt-58	pCi/kg	1.53E+01	1.89E+01		U
Broad Leaf	9/25/2018 8:13	Cobalt-60	pCi/kg	-2.92E+01	2.13E+01		U
Broad Leaf	9/25/2018 8:13	Iodine-131	pCi/kg	-1.21E-01	3.34E+01	6.00E+01	U
Broad Leaf	9/25/2018 8:13	Iron-59	pCi/kg	-4.57E+00	3.43E+01		U
Broad Leaf	9/25/2018 8:13	Lanthanum-140	pCi/kg	-7.28E+00	2.41E+01		U
Broad Leaf	9/25/2018 8:13	Manganese-54	pCi/kg	1.23E+00	2.19E+01		U
Broad Leaf	9/25/2018 8:13	Niobium-95	pCi/kg	-4.50E+00	1.83E+01		U
Broad Leaf	9/25/2018 8:13	Potassium-40	pCi/kg	3.32E+03	2.15E+02		
Broad Leaf	9/25/2018 8:13	Ruthenium-103	pCi/kg	-3.74E+00	1.73E+01		U
Broad Leaf	9/25/2018 8:13	Ruthenium-106	pCi/kg	1.24E+01	1.96E+02		U
Broad Leaf	9/25/2018 8:13	Selenium-75	pCi/kg	2.94E+00	2.57E+01		U
Broad Leaf	9/25/2018 8:13	Silver-108m	pCi/kg	-6.68E+00	1.49E+01		U

Broad Leaf	9/25/2018 8:13	Silver-110m	pCi/kg	-2.19E-01	2.79E+01		U
Broad Leaf	9/25/2018 8:13	Thorium-228	pCi/kg	3.04E+01	3.55E+01		U
Broad Leaf	9/25/2018 8:13	Zinc-65	pCi/kg	4.40E+00	4.53E+01		U
Broad Leaf	9/25/2018 8:13	Zirconium-95	pCi/kg	1.53E+00	3.32E+01		U
Broad Leaf	10/30/2018 9:13	Actinium-228	pCi/kg	1.23E+01	1.05E+02		U
Broad Leaf	10/30/2018 9:13	Antimony-124	pCi/kg	1.21E+01	4.88E+01		U
Broad Leaf	10/30/2018 9:13	Antimony-125	pCi/kg	1.63E+01	5.55E+01		U
Broad Leaf	10/30/2018 9:13	Barium-140	pCi/kg	-3.50E+01	9.12E+01		U
Broad Leaf	10/30/2018 9:13	Beryllium-7	pCi/kg	3.97E+03	1.89E+02		
Broad Leaf	10/30/2018 9:13	Cerium-141	pCi/kg	-3.91E+01	2.86E+01		U
Broad Leaf	10/30/2018 9:13	Cerium-144	pCi/kg	-3.35E+00	1.15E+02		U
Broad Leaf	10/30/2018 9:13	Cesium-134	pCi/kg	-4.15E+00	2.28E+01	6.00E+01	U
Broad Leaf	10/30/2018 9:13	Cesium-137	pCi/kg	6.35E+00	2.21E+01	8.00E+01	U
Broad Leaf	10/30/2018 9:13	Chromium-51	pCi/kg	-7.00E+00	1.80E+02		U
Broad Leaf	10/30/2018 9:13	Cobalt-57	pCi/kg	2.94E+00	1.52E+01		U
Broad Leaf	10/30/2018 9:13	Cobalt-58	pCi/kg	1.29E+01	1.99E+01		U
Broad Leaf	10/30/2018 9:13	Cobalt-60	pCi/kg	-2.01E+00	2.24E+01		U
Broad Leaf	10/30/2018 9:13	Iodine-131	pCi/kg	6.49E+00	3.46E+01	6.00E+01	U
Broad Leaf	10/30/2018 9:13	Iron-59	pCi/kg	-4.77E+00	4.34E+01		U
Broad Leaf	10/30/2018 9:13	Lanthanum-140	pCi/kg	-9.59E+00	2.83E+01		U
Broad Leaf	10/30/2018 9:13	Manganese-54	pCi/kg	-1.39E+00	2.13E+01		U
Broad Leaf	10/30/2018 9:13	Niobium-95	pCi/kg	-3.91E+00	2.13E+01		U
Broad Leaf	10/30/2018 9:13	Potassium-40	pCi/kg	4.81E+03	2.08E+02		
Broad Leaf	10/30/2018 9:13	Ruthenium-103	pCi/kg	7.13E-01	2.15E+01		U
Broad Leaf	10/30/2018 9:13	Ruthenium-106	pCi/kg	-2.92E+00	1.73E+02		U
Broad Leaf	10/30/2018 9:13	Selenium-75	pCi/kg	-2.22E+00	2.65E+01		U
Broad Leaf	10/30/2018 9:13	Silver-108m	pCi/kg	1.76E+01	1.83E+01		U
Broad Leaf	10/30/2018 9:13	Silver-110m	pCi/kg	9.05E+00	3.38E+01		U
Broad Leaf	10/30/2018 9:13	Thorium-228	pCi/kg	6.33E-01	3.68E+01		U
Broad Leaf	10/30/2018 9:13	Zinc-65	pCi/kg	1.49E+00	5.19E+01		U
Broad Leaf	10/30/2018 9:13	Zirconium-95	pCi/kg	2.22E-01	3.48E+01		U
Broad Leaf	11/27/2018 10:03	Actinium-228	pCi/kg	1.09E+02	1.39E+02		U
Broad Leaf	11/27/2018 10:03	Antimony-124	pCi/kg	-3.80E+00	6.32E+01		U
Broad Leaf	11/27/2018 10:03	Antimony-125	pCi/kg	-1.80E+00	7.82E+01		U
Broad Leaf	11/27/2018 10:03	Barium-140	pCi/kg	5.20E+01	1.53E+02		U
Broad Leaf	11/27/2018 10:03	Beryllium-7	pCi/kg	5.21E+03	2.54E+02		
Broad Leaf	11/27/2018 10:03	Cerium-141	pCi/kg	-1.66E+01	4.25E+01		U
Broad Leaf	11/27/2018 10:03	Cerium-144	pCi/kg	2.19E+01	1.58E+02		U
Broad Leaf	11/27/2018 10:03	Cesium-134	pCi/kg	1.10E+01	3.39E+01	6.00E+01	U
Broad Leaf	11/27/2018 10:03	Cesium-137	pCi/kg	3.31E+01	2.86E+01	8.00E+01	UI
Broad Leaf	11/27/2018 10:03	Chromium-51	pCi/kg	2.42E+01	2.73E+02		U
Broad Leaf	11/27/2018 10:03	Cobalt-57	pCi/kg	-1.54E+01	2.05E+01		U
Broad Leaf	11/27/2018 10:03	Cobalt-58	pCi/kg	-2.12E+00	3.09E+01		U
Broad Leaf	11/27/2018 10:03	Cobalt-60	pCi/kg	2.33E+01	3.30E+01		U

Broad Leaf	11/27/2018 10:03	Iodine-131	pCi/kg	1.92E+01	6.02E+01	6.00E+01	DLU
Broad Leaf	11/27/2018 10:03	Iron-59	pCi/kg	7.17E+00	6.09E+01		U
Broad Leaf	11/27/2018 10:03	Lanthanum-140	pCi/kg	-1.41E+01	4.68E+01		U
Broad Leaf	11/27/2018 10:03	Manganese-54	pCi/kg	-1.23E+00	3.03E+01		U
Broad Leaf	11/27/2018 10:03	Niobium-95	pCi/kg	5.76E+00	3.11E+01		U
Broad Leaf	11/27/2018 10:03	Potassium-40	pCi/kg	8.83E+03	2.51E+02		
Broad Leaf	11/27/2018 10:03	Ruthenium-103	pCi/kg	1.52E+01	3.08E+01		U
Broad Leaf	11/27/2018 10:03	Ruthenium-106	pCi/kg	-4.49E+01	2.33E+02		U
Broad Leaf	11/27/2018 10:03	Selenium-75	pCi/kg	-2.60E+00	3.58E+01		U
Broad Leaf	11/27/2018 10:03	Silver-108m	pCi/kg	-1.70E+01	2.64E+01		U
Broad Leaf	11/27/2018 10:03	Silver-110m	pCi/kg	7.90E+00	4.01E+01		U
Broad Leaf	11/27/2018 10:03	Thorium-228	pCi/kg	-4.92E+01	5.56E+01		U
Broad Leaf	11/27/2018 10:03	Zinc-65	pCi/kg	3.28E+01	6.13E+01		U
Broad Leaf	11/27/2018 10:03	Zirconium-95	pCi/kg	-2.75E+01	5.12E+01		U
Broad Leaf	12/25/2018 9:36	Actinium-228	pCi/kg	-1.87E+02	1.62E+02		U
Broad Leaf	12/25/2018 9:36	Antimony-124	pCi/kg	3.41E+01	6.89E+01		U
Broad Leaf	12/25/2018 9:36	Antimony-125	pCi/kg	-6.51E+00	9.15E+01		U
Broad Leaf	12/25/2018 9:36	Barium-140	pCi/kg	4.80E+01	1.50E+02		U
Broad Leaf	12/25/2018 9:36	Beryllium-7	pCi/kg	1.02E+04	2.71E+02		
Broad Leaf	12/25/2018 9:36	Cerium-141	pCi/kg	-4.37E+01	4.86E+01		U
Broad Leaf	12/25/2018 9:36	Cerium-144	pCi/kg	1.85E+01	1.92E+02		U
Broad Leaf	12/25/2018 9:36	Cesium-134	pCi/kg	-4.40E+00	3.24E+01	6.00E+01	U
Broad Leaf	12/25/2018 9:36	Cesium-137	pCi/kg	-2.41E+00	3.34E+01	8.00E+01	U
Broad Leaf	12/25/2018 9:36	Chromium-51	pCi/kg	1.63E+02	3.00E+02		U
Broad Leaf	12/25/2018 9:36	Cobalt-57	pCi/kg	-4.89E+00	2.54E+01		U
Broad Leaf	12/25/2018 9:36	Cobalt-58	pCi/kg	5.66E+00	3.39E+01		U
Broad Leaf	12/25/2018 9:36	Cobalt-60	pCi/kg	1.27E+01	3.82E+01		U
Broad Leaf	12/25/2018 9:36	Iodine-131	pCi/kg	-1.26E+01	4.73E+01	6.00E+01	U
Broad Leaf	12/25/2018 9:36	Iron-59	pCi/kg	-8.12E+00	6.23E+01		U
Broad Leaf	12/25/2018 9:36	Lanthanum-140	pCi/kg	-1.87E+01	4.28E+01		U
Broad Leaf	12/25/2018 9:36	Manganese-54	pCi/kg	-4.18E+00	3.27E+01		U
Broad Leaf	12/25/2018 9:36	Niobium-95	pCi/kg	1.73E+01	3.58E+01		U
Broad Leaf	12/25/2018 9:36	Potassium-40	pCi/kg	4.57E+03	3.20E+02		
Broad Leaf	12/25/2018 9:36	Ruthenium-103	pCi/kg	4.58E+00	3.21E+01		U
Broad Leaf	12/25/2018 9:36	Ruthenium-106	pCi/kg	-4.95E+00	3.04E+02		U
Broad Leaf	12/25/2018 9:36	Selenium-75	pCi/kg	5.22E+00	4.37E+01		U
Broad Leaf	12/25/2018 9:36	Silver-108m	pCi/kg	-9.42E+00	2.80E+01		U
Broad Leaf	12/25/2018 9:36	Silver-110m	pCi/kg	8.00E+00	4.70E+01		U
Broad Leaf	12/25/2018 9:36	Thorium-228	pCi/kg	4.30E+01	7.05E+01		U
Broad Leaf	12/25/2018 9:36	Zinc-65	pCi/kg	8.08E+01	6.00E+01		UI
Broad Leaf	12/25/2018 9:36	Zirconium-95	pCi/kg	2.33E+00	6.02E+01		U

Notes:

1. LLDs are a-priori values.
2. MDCs are calculated a-posteriori values.
3. Gamma spectroscopy analysis results are calculated from a measurement using only one gamma en
4. Air sample volumes are received in units of ft3. GEL converts the units and reports them as m3.

QUALIFIERS:

U Target isotope was analyzed for but not detected above the MDC or LLD.
UI Uncertain identification for gamma spectroscopy.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project mana
M Reported result is less than the LLD and greater than the MDC.
DL DL MDC > LLD.

Sample Data For: "BL-3"

Matrix	Collect Date	Parmname	Units	Result	MDC	LLD	Qualifier
Broad Leaf	1/30/2018 8:48	Actinium-228	pCi/kg	5.34E+01	4.06E+01		UI
Broad Leaf	1/30/2018 8:48	Antimony-124	pCi/kg	6.97E+00	2.75E+01		U
Broad Leaf	1/30/2018 8:48	Antimony-125	pCi/kg	-7.86E+00	2.91E+01		U
Broad Leaf	1/30/2018 8:48	Barium-140	pCi/kg	-2.97E+00	4.51E+01		U
Broad Leaf	1/30/2018 8:48	Beryllium-7	pCi/kg	5.93E+03	9.25E+01		
Broad Leaf	1/30/2018 8:48	Cerium-141	pCi/kg	-2.75E+01	1.71E+01		U
Broad Leaf	1/30/2018 8:48	Cerium-144	pCi/kg	1.32E+00	6.79E+01		U
Broad Leaf	1/30/2018 8:48	Cesium-134	pCi/kg	1.48E+01	1.32E+01	6.00E+01	UI
Broad Leaf	1/30/2018 8:48	Cesium-137	pCi/kg	1.63E+01	1.10E+01	8.00E+01	UI
Broad Leaf	1/30/2018 8:48	Chromium-51	pCi/kg	4.78E+00	1.05E+02		U
Broad Leaf	1/30/2018 8:48	Cobalt-57	pCi/kg	2.04E-01	8.77E+00		U
Broad Leaf	1/30/2018 8:48	Cobalt-58	pCi/kg	-7.30E-01	1.04E+01		U
Broad Leaf	1/30/2018 8:48	Cobalt-60	pCi/kg	2.38E+00	1.28E+01		U
Broad Leaf	1/30/2018 8:48	Iodine-131	pCi/kg	9.73E-01	1.57E+01	6.00E+01	U
Broad Leaf	1/30/2018 8:48	Iron-59	pCi/kg	-3.25E-01	2.09E+01		U
Broad Leaf	1/30/2018 8:48	Lanthanum-140	pCi/kg	-1.12E+01	1.29E+01		U
Broad Leaf	1/30/2018 8:48	Manganese-54	pCi/kg	1.30E+00	1.17E+01		U
Broad Leaf	1/30/2018 8:48	Niobium-95	pCi/kg	7.80E+00	1.15E+01		U
Broad Leaf	1/30/2018 8:48	Potassium-40	pCi/kg	1.72E+03	1.18E+02		
Broad Leaf	1/30/2018 8:48	Ruthenium-103	pCi/kg	3.88E+00	1.15E+01		U
Broad Leaf	1/30/2018 8:48	Ruthenium-106	pCi/kg	-7.37E+00	1.05E+02		U
Broad Leaf	1/30/2018 8:48	Selenium-75	pCi/kg	2.06E+00	1.55E+01		U
Broad Leaf	1/30/2018 8:48	Silver-108m	pCi/kg	2.89E+00	1.03E+01		U
Broad Leaf	1/30/2018 8:48	Silver-110m	pCi/kg	-4.56E+00	1.46E+01		U
Broad Leaf	1/30/2018 8:48	Thorium-228	pCi/kg	3.32E+01	2.05E+01		

Broad Leaf	1/30/2018 8:48	Zinc-65	pCi/kg	2.52E+00	2.34E+01		U
Broad Leaf	1/30/2018 8:48	Zirconium-95	pCi/kg	7.16E+00	1.97E+01		U
Broad Leaf	2/27/2018 8:40	Actinium-228	pCi/kg	-6.60E+01	1.49E+02		U
Broad Leaf	2/27/2018 8:40	Antimony-124	pCi/kg	2.46E+01	7.69E+01		U
Broad Leaf	2/27/2018 8:40	Antimony-125	pCi/kg	-1.07E+00	7.40E+01		U
Broad Leaf	2/27/2018 8:40	Barium-140	pCi/kg	6.13E+01	1.26E+02		U
Broad Leaf	2/27/2018 8:40	Beryllium-7	pCi/kg	1.34E+03	2.47E+02		
Broad Leaf	2/27/2018 8:40	Cerium-141	pCi/kg	-2.39E+01	3.97E+01		U
Broad Leaf	2/27/2018 8:40	Cerium-144	pCi/kg	3.03E+01	1.60E+02		U
Broad Leaf	2/27/2018 8:40	Cesium-134	pCi/kg	1.65E+00	3.41E+01	6.00E+01	U
Broad Leaf	2/27/2018 8:40	Cesium-137	pCi/kg	2.78E+00	3.35E+01	8.00E+01	U
Broad Leaf	2/27/2018 8:40	Chromium-51	pCi/kg	-2.21E+02	2.54E+02		U
Broad Leaf	2/27/2018 8:40	Cobalt-57	pCi/kg	-5.50E+00	1.91E+01		U
Broad Leaf	2/27/2018 8:40	Cobalt-58	pCi/kg	6.90E+00	3.10E+01		U
Broad Leaf	2/27/2018 8:40	Cobalt-60	pCi/kg	3.67E+00	3.97E+01		U
Broad Leaf	2/27/2018 8:40	Iodine-131	pCi/kg	8.29E+00	3.59E+01	6.00E+01	U
Broad Leaf	2/27/2018 8:40	Iron-59	pCi/kg	-4.42E+00	6.03E+01		U
Broad Leaf	2/27/2018 8:40	Lanthanum-140	pCi/kg	8.31E+00	4.64E+01		U
Broad Leaf	2/27/2018 8:40	Manganese-54	pCi/kg	-2.78E+00	2.96E+01		U
Broad Leaf	2/27/2018 8:40	Niobium-95	pCi/kg	-7.22E+00	2.89E+01		U
Broad Leaf	2/27/2018 8:40	Potassium-40	pCi/kg	6.08E+03	3.38E+02		
Broad Leaf	2/27/2018 8:40	Ruthenium-103	pCi/kg	-2.33E+00	2.75E+01		U
Broad Leaf	2/27/2018 8:40	Ruthenium-106	pCi/kg	2.73E+02	2.68E+02		UI
Broad Leaf	2/27/2018 8:40	Selenium-75	pCi/kg	6.15E+00	3.51E+01		U
Broad Leaf	2/27/2018 8:40	Silver-108m	pCi/kg	-1.81E+00	2.48E+01		U
Broad Leaf	2/27/2018 8:40	Silver-110m	pCi/kg	1.58E+01	4.84E+01		U
Broad Leaf	2/27/2018 8:40	Thorium-228	pCi/kg	9.37E+00	4.70E+01		U
Broad Leaf	2/27/2018 8:40	Zinc-65	pCi/kg	1.23E+01	6.99E+01		U
Broad Leaf	2/27/2018 8:40	Zirconium-95	pCi/kg	2.10E+01	5.68E+01		U
Broad Leaf	3/27/2018 12:08	Actinium-228	pCi/kg	-4.07E+01	3.22E+01		U
Broad Leaf	3/27/2018 12:08	Antimony-124	pCi/kg	3.18E+00	1.66E+01		U
Broad Leaf	3/27/2018 12:08	Antimony-125	pCi/kg	-5.69E+00	1.63E+01		U
Broad Leaf	3/27/2018 12:08	Barium-140	pCi/kg	-5.08E+00	2.78E+01		U
Broad Leaf	3/27/2018 12:08	Beryllium-7	pCi/kg	5.49E+02	5.66E+01		
Broad Leaf	3/27/2018 12:08	Cerium-141	pCi/kg	1.31E+00	8.86E+00		U
Broad Leaf	3/27/2018 12:08	Cerium-144	pCi/kg	-6.86E+00	3.54E+01		U
Broad Leaf	3/27/2018 12:08	Cesium-134	pCi/kg	1.38E+00	7.73E+00	6.00E+01	U
Broad Leaf	3/27/2018 12:08	Cesium-137	pCi/kg	5.57E+00	8.10E+00	8.00E+01	U
Broad Leaf	3/27/2018 12:08	Chromium-51	pCi/kg	2.72E+00	5.42E+01		U
Broad Leaf	3/27/2018 12:08	Cobalt-57	pCi/kg	3.08E+00	4.80E+00		U
Broad Leaf	3/27/2018 12:08	Cobalt-58	pCi/kg	-2.81E+00	7.13E+00		U
Broad Leaf	3/27/2018 12:08	Cobalt-60	pCi/kg	-1.98E+00	7.39E+00		U
Broad Leaf	3/27/2018 12:08	Iodine-131	pCi/kg	5.76E+00	8.07E+00	6.00E+01	U
Broad Leaf	3/27/2018 12:08	Iron-59	pCi/kg	2.69E+00	1.39E+01		U

Broad Leaf	3/27/2018 12:08	Lanthanum-140	pCi/kg	2.02E+00	1.07E+01		U
Broad Leaf	3/27/2018 12:08	Manganese-54	pCi/kg	1.37E+00	7.44E+00		U
Broad Leaf	3/27/2018 12:08	Niobium-95	pCi/kg	-8.31E+00	6.63E+00		U
Broad Leaf	3/27/2018 12:08	Potassium-40	pCi/kg	2.73E+03	5.76E+01		
Broad Leaf	3/27/2018 12:08	Ruthenium-103	pCi/kg	9.56E-01	6.34E+00		U
Broad Leaf	3/27/2018 12:08	Ruthenium-106	pCi/kg	1.05E+01	5.93E+01		U
Broad Leaf	3/27/2018 12:08	Selenium-75	pCi/kg	1.19E-03	7.94E+00		U
Broad Leaf	3/27/2018 12:08	Silver-108m	pCi/kg	-1.67E+00	5.67E+00		U
Broad Leaf	3/27/2018 12:08	Silver-110m	pCi/kg	-6.42E+00	8.31E+00		U
Broad Leaf	3/27/2018 12:08	Thorium-228	pCi/kg	6.91E+00	1.11E+01		U
Broad Leaf	3/27/2018 12:08	Zinc-65	pCi/kg	-2.97E+00	1.78E+01		U
Broad Leaf	3/27/2018 12:08	Zirconium-95	pCi/kg	8.49E-01	1.24E+01		U
Broad Leaf	4/24/2018 8:33	Actinium-228	pCi/kg	1.24E+02	1.85E+02		U
Broad Leaf	4/24/2018 8:33	Antimony-124	pCi/kg	-4.01E+01	7.74E+01		U
Broad Leaf	4/24/2018 8:33	Antimony-125	pCi/kg	6.68E+00	8.56E+01		U
Broad Leaf	4/24/2018 8:33	Barium-140	pCi/kg	5.09E+01	1.66E+02		U
Broad Leaf	4/24/2018 8:33	Beryllium-7	pCi/kg	1.16E+04	2.66E+02		
Broad Leaf	4/24/2018 8:33	Cerium-141	pCi/kg	-2.35E+01	4.43E+01		U
Broad Leaf	4/24/2018 8:33	Cerium-144	pCi/kg	2.43E+01	1.68E+02		U
Broad Leaf	4/24/2018 8:33	Cesium-134	pCi/kg	1.47E+01	4.35E+01	6.00E+01	U
Broad Leaf	4/24/2018 8:33	Cesium-137	pCi/kg	1.01E+01	3.79E+01	8.00E+01	U
Broad Leaf	4/24/2018 8:33	Chromium-51	pCi/kg	-3.80E+01	2.72E+02		U
Broad Leaf	4/24/2018 8:33	Cobalt-57	pCi/kg	-1.33E+01	2.11E+01		U
Broad Leaf	4/24/2018 8:33	Cobalt-58	pCi/kg	4.83E-01	3.24E+01		U
Broad Leaf	4/24/2018 8:33	Cobalt-60	pCi/kg	3.24E+01	3.22E+01		UI
Broad Leaf	4/24/2018 8:33	Iodine-131	pCi/kg	7.34E+00	5.34E+01	6.00E+01	U
Broad Leaf	4/24/2018 8:33	Iron-59	pCi/kg	-4.66E+00	7.15E+01		U
Broad Leaf	4/24/2018 8:33	Lanthanum-140	pCi/kg	4.72E-01	6.01E+01		U
Broad Leaf	4/24/2018 8:33	Manganese-54	pCi/kg	4.85E+00	3.42E+01		U
Broad Leaf	4/24/2018 8:33	Niobium-95	pCi/kg	5.21E+00	3.62E+01		U
Broad Leaf	4/24/2018 8:33	Potassium-40	pCi/kg	9.88E+02	3.34E+02		
Broad Leaf	4/24/2018 8:33	Ruthenium-103	pCi/kg	7.80E+00	3.41E+01		U
Broad Leaf	4/24/2018 8:33	Ruthenium-106	pCi/kg	2.72E+01	3.01E+02		U
Broad Leaf	4/24/2018 8:33	Selenium-75	pCi/kg	-7.97E+00	3.70E+01		U
Broad Leaf	4/24/2018 8:33	Silver-108m	pCi/kg	-2.99E+00	2.72E+01		U
Broad Leaf	4/24/2018 8:33	Silver-110m	pCi/kg	2.83E+01	5.22E+01		U
Broad Leaf	4/24/2018 8:33	Thorium-228	pCi/kg	-3.62E+01	7.02E+01		U
Broad Leaf	4/24/2018 8:33	Zinc-65	pCi/kg	-2.43E-01	7.74E+01		U
Broad Leaf	4/24/2018 8:33	Zirconium-95	pCi/kg	6.66E+00	6.77E+01		U
Broad Leaf	5/29/2018 9:07	Actinium-228	pCi/kg	4.63E+00	7.07E+01		U
Broad Leaf	5/29/2018 9:07	Antimony-124	pCi/kg	1.03E+01	3.39E+01		U
Broad Leaf	5/29/2018 9:07	Antimony-125	pCi/kg	-2.32E+00	3.45E+01		U
Broad Leaf	5/29/2018 9:07	Barium-140	pCi/kg	3.47E+01	6.16E+01		U
Broad Leaf	5/29/2018 9:07	Beryllium-7	pCi/kg	2.87E+03	1.16E+02		

Broad Leaf	5/29/2018 9:07	Cerium-141	pCi/kg	-7.90E+00	1.80E+01		U
Broad Leaf	5/29/2018 9:07	Cerium-144	pCi/kg	-4.60E+01	6.69E+01		U
Broad Leaf	5/29/2018 9:07	Cesium-134	pCi/kg	8.47E+00	1.68E+01	6.00E+01	U
Broad Leaf	5/29/2018 9:07	Cesium-137	pCi/kg	3.78E+00	1.56E+01	8.00E+01	U
Broad Leaf	5/29/2018 9:07	Chromium-51	pCi/kg	-3.01E+01	1.11E+02		U
Broad Leaf	5/29/2018 9:07	Cobalt-57	pCi/kg	1.39E+00	8.94E+00		U
Broad Leaf	5/29/2018 9:07	Cobalt-58	pCi/kg	-3.35E-02	1.38E+01		U
Broad Leaf	5/29/2018 9:07	Cobalt-60	pCi/kg	1.09E+01	1.70E+01		U
Broad Leaf	5/29/2018 9:07	Iodine-131	pCi/kg	-1.85E-01	1.88E+01	6.00E+01	U
Broad Leaf	5/29/2018 9:07	Iron-59	pCi/kg	-6.49E+00	2.76E+01		U
Broad Leaf	5/29/2018 9:07	Lanthanum-140	pCi/kg	5.96E-01	1.91E+01		U
Broad Leaf	5/29/2018 9:07	Manganese-54	pCi/kg	1.39E+00	1.33E+01		U
Broad Leaf	5/29/2018 9:07	Niobium-95	pCi/kg	1.01E+01	1.50E+01		U
Broad Leaf	5/29/2018 9:07	Potassium-40	pCi/kg	4.59E+03	1.33E+02		
Broad Leaf	5/29/2018 9:07	Ruthenium-103	pCi/kg	7.64E+00	1.39E+01		U
Broad Leaf	5/29/2018 9:07	Ruthenium-106	pCi/kg	-8.63E+00	1.21E+02		U
Broad Leaf	5/29/2018 9:07	Selenium-75	pCi/kg	8.46E-01	1.74E+01		U
Broad Leaf	5/29/2018 9:07	Silver-108m	pCi/kg	-4.18E-01	1.21E+01		U
Broad Leaf	5/29/2018 9:07	Silver-110m	pCi/kg	3.61E-01	1.87E+01		U
Broad Leaf	5/29/2018 9:07	Thorium-228	pCi/kg	5.29E+00	2.98E+01		U
Broad Leaf	5/29/2018 9:07	Zinc-65	pCi/kg	-4.94E+00	3.23E+01		U
Broad Leaf	5/29/2018 9:07	Zirconium-95	pCi/kg	-1.49E+01	2.35E+01		U
Broad Leaf	6/26/2018 11:05	Actinium-228	pCi/kg	3.93E+00	1.25E+02		U
Broad Leaf	6/26/2018 11:05	Antimony-124	pCi/kg	1.36E+01	5.12E+01		U
Broad Leaf	6/26/2018 11:05	Antimony-125	pCi/kg	-3.10E+00	5.95E+01		U
Broad Leaf	6/26/2018 11:05	Barium-140	pCi/kg	3.29E+01	1.10E+02		U
Broad Leaf	6/26/2018 11:05	Beryllium-7	pCi/kg	2.62E+03	2.25E+02		
Broad Leaf	6/26/2018 11:05	Cerium-141	pCi/kg	2.99E+01	3.46E+01		U
Broad Leaf	6/26/2018 11:05	Cerium-144	pCi/kg	7.82E+01	1.38E+02		U
Broad Leaf	6/26/2018 11:05	Cesium-134	pCi/kg	-2.42E+00	2.51E+01	6.00E+01	U
Broad Leaf	6/26/2018 11:05	Cesium-137	pCi/kg	8.09E-01	2.31E+01	8.00E+01	U
Broad Leaf	6/26/2018 11:05	Chromium-51	pCi/kg	-3.30E+01	2.11E+02		U
Broad Leaf	6/26/2018 11:05	Cobalt-57	pCi/kg	-4.25E+00	1.76E+01		U
Broad Leaf	6/26/2018 11:05	Cobalt-58	pCi/kg	-4.41E+00	2.14E+01		U
Broad Leaf	6/26/2018 11:05	Cobalt-60	pCi/kg	1.11E+01	3.03E+01		U
Broad Leaf	6/26/2018 11:05	Iodine-131	pCi/kg	-1.17E+01	3.47E+01	6.00E+01	U
Broad Leaf	6/26/2018 11:05	Iron-59	pCi/kg	-2.08E+01	4.23E+01		U
Broad Leaf	6/26/2018 11:05	Lanthanum-140	pCi/kg	-2.93E+01	2.60E+01		U
Broad Leaf	6/26/2018 11:05	Manganese-54	pCi/kg	-2.00E+01	1.86E+01		U
Broad Leaf	6/26/2018 11:05	Niobium-95	pCi/kg	1.22E+01	2.70E+01		U
Broad Leaf	6/26/2018 11:05	Potassium-40	pCi/kg	4.74E+03	2.64E+02		
Broad Leaf	6/26/2018 11:05	Ruthenium-103	pCi/kg	-2.91E+00	2.32E+01		U
Broad Leaf	6/26/2018 11:05	Ruthenium-106	pCi/kg	1.14E+01	2.01E+02		U
Broad Leaf	6/26/2018 11:05	Selenium-75	pCi/kg	-9.25E+00	3.11E+01		U

Broad Leaf	6/26/2018 11:05	Silver-108m	pCi/kg	4.63E+00	2.06E+01		U
Broad Leaf	6/26/2018 11:05	Silver-110m	pCi/kg	3.75E+00	3.31E+01		U
Broad Leaf	6/26/2018 11:05	Thorium-228	pCi/kg	2.16E+01	5.08E+01		U
Broad Leaf	6/26/2018 11:05	Zinc-65	pCi/kg	4.75E+00	5.63E+01		U
Broad Leaf	6/26/2018 11:05	Zirconium-95	pCi/kg	-1.12E+01	4.36E+01		U
Broad Leaf	7/31/2018 8:16	Actinium-228	pCi/kg	1.96E+02	1.80E+02		UI
Broad Leaf	7/31/2018 8:16	Antimony-124	pCi/kg	-6.64E+01	7.22E+01		U
Broad Leaf	7/31/2018 8:16	Antimony-125	pCi/kg	3.29E+01	1.12E+02		U
Broad Leaf	7/31/2018 8:16	Barium-140	pCi/kg	-4.08E+01	1.46E+02		U
Broad Leaf	7/31/2018 8:16	Beryllium-7	pCi/kg	2.82E+03	3.18E+02		
Broad Leaf	7/31/2018 8:16	Cerium-141	pCi/kg	6.74E+00	6.09E+01		U
Broad Leaf	7/31/2018 8:16	Cerium-144	pCi/kg	-1.04E+02	2.13E+02		U
Broad Leaf	7/31/2018 8:16	Ceslum-134	pCi/kg	-2.67E+01	3.66E+01	6.00E+01	U
Broad Leaf	7/31/2018 8:16	Cesium-137	pCi/kg	1.11E+01	4.95E+01	8.00E+01	U
Broad Leaf	7/31/2018 8:16	Chromium-51	pCi/kg	4.30E+01	3.52E+02		U
Broad Leaf	7/31/2018 8:16	Cobalt-57	pCi/kg	-3.58E+00	2.93E+01		U
Broad Leaf	7/31/2018 8:16	Cobalt-58	pCi/kg	1.42E+00	4.11E+01		U
Broad Leaf	7/31/2018 8:16	Cobalt-60	pCi/kg	-1.47E+01	4.35E+01		U
Broad Leaf	7/31/2018 8:16	Iodine-131	pCi/kg	-4.74E+00	5.51E+01	6.00E+01	U
Broad Leaf	7/31/2018 8:16	Iron-59	pCi/kg	3.40E+01	9.70E+01		U
Broad Leaf	7/31/2018 8:16	Lanthanum-140	pCi/kg	-1.80E+01	5.69E+01		U
Broad Leaf	7/31/2018 8:16	Manganese-54	pCi/kg	2.18E+01	4.49E+01		U
Broad Leaf	7/31/2018 8:16	Niobium-95	pCi/kg	1.63E+01	4.29E+01		U
Broad Leaf	7/31/2018 8:16	Potassium-40	pCi/kg	3.51E+03	3.18E+02		
Broad Leaf	7/31/2018 8:16	Ruthenium-103	pCi/kg	-1.39E+01	4.05E+01		U
Broad Leaf	7/31/2018 8:16	Ruthenium-106	pCi/kg	1.94E+02	4.04E+02		U
Broad Leaf	7/31/2018 8:16	Selenium-75	pCi/kg	2.51E+01	5.43E+01		U
Broad Leaf	7/31/2018 8:16	Silver-108m	pCi/kg	1.80E+01	3.83E+01		U
Broad Leaf	7/31/2018 8:16	Silver-110m	pCi/kg	7.17E+00	5.77E+01		U
Broad Leaf	7/31/2018 8:16	Thorium-228	pCi/kg	1.85E+01	8.37E+01		U
Broad Leaf	7/31/2018 8:16	Zinc-65	pCi/kg	1.29E+01	8.63E+01		U
Broad Leaf	7/31/2018 8:16	Zirconium-95	pCi/kg	-2.78E+01	7.02E+01		U
Broad Leaf	8/28/2018 9:39	Actinium-228	pCi/kg	1.75E+02	1.17E+02		UI
Broad Leaf	8/28/2018 9:39	Antimony-124	pCi/kg	7.21E+00	5.61E+01		U
Broad Leaf	8/28/2018 9:39	Antimony-125	pCi/kg	-1.95E+01	5.92E+01		U
Broad Leaf	8/28/2018 9:39	Barium-140	pCi/kg	1.76E+01	1.24E+02		U
Broad Leaf	8/28/2018 9:39	Beryllium-7	pCi/kg	4.91E+03	1.90E+02		
Broad Leaf	8/28/2018 9:39	Cerium-141	pCi/kg	-6.56E+00	3.70E+01		U
Broad Leaf	8/28/2018 9:39	Cerium-144	pCi/kg	2.37E+01	1.33E+02		U
Broad Leaf	8/28/2018 9:39	Cesium-134	pCi/kg	3.20E+01	2.71E+01	6.00E+01	UI
Broad Leaf	8/28/2018 9:39	Cesium-137	pCi/kg	8.67E+00	2.78E+01	8.00E+01	U
Broad Leaf	8/28/2018 9:39	Chromium-51	pCi/kg	-3.99E+01	2.16E+02		U
Broad Leaf	8/28/2018 9:39	Cobalt-57	pCi/kg	4.28E+00	1.75E+01		U
Broad Leaf	8/28/2018 9:39	Cobalt-58	pCi/kg	-1.08E+01	2.26E+01		U

Broad Leaf	8/28/2018 9:39	Cobalt-60	pCi/kg	1.33E+01	2.65E+01		U
Broad Leaf	8/28/2018 9:39	Iodine-131	pCi/kg	-1.08E+01	4.23E+01	6.00E+01	U
Broad Leaf	8/28/2018 9:39	Iron-59	pCi/kg	4.17E+00	4.92E+01		U
Broad Leaf	8/28/2018 9:39	Lanthanum-140	pCi/kg	8.73E+00	3.81E+01		U
Broad Leaf	8/28/2018 9:39	Manganese-54	pCi/kg	1.60E+01	2.51E+01		U
Broad Leaf	8/28/2018 9:39	Niobium-95	pCi/kg	8.48E+00	2.82E+01		U
Broad Leaf	8/28/2018 9:39	Potassium-40	pCi/kg	2.18E+03	2.30E+02		
Broad Leaf	8/28/2018 9:39	Ruthenium-103	pCi/kg	-9.89E-01	2.38E+01		U
Broad Leaf	8/28/2018 9:39	Ruthenium-106	pCi/kg	-1.60E+01	2.18E+02		U
Broad Leaf	8/28/2018 9:39	Selenium-75	pCi/kg	5.39E+00	2.99E+01		U
Broad Leaf	8/28/2018 9:39	Silver-108m	pCi/kg	4.11E-01	2.09E+01		U
Broad Leaf	8/28/2018 9:39	Silver-110m	pCi/kg	1.04E+01	3.39E+01		U
Broad Leaf	8/28/2018 9:39	Thorium-228	pCi/kg	7.71E+01	3.58E+01		
Broad Leaf	8/28/2018 9:39	Zinc-65	pCi/kg	1.45E+01	5.61E+01		U
Broad Leaf	8/28/2018 9:39	Zirconium-95	pCi/kg	-5.77E+00	4.59E+01		U
Broad Leaf	9/25/2018 9:05	Actinium-228	pCi/kg	-4.57E+01	1.15E+02		U
Broad Leaf	9/25/2018 9:05	Antimony-124	pCi/kg	-4.95E+00	5.99E+01		U
Broad Leaf	9/25/2018 9:05	Antimony-125	pCi/kg	-1.02E+01	6.79E+01		U
Broad Leaf	9/25/2018 9:05	Barium-140	pCi/kg	-9.56E+00	1.16E+02		U
Broad Leaf	9/25/2018 9:05	Beryllium-7	pCi/kg	2.42E+03	2.43E+02		
Broad Leaf	9/25/2018 9:05	Cerium-141	pCi/kg	4.26E+00	3.90E+01		U
Broad Leaf	9/25/2018 9:05	Cerium-144	pCi/kg	6.21E+01	1.59E+02		U
Broad Leaf	9/25/2018 9:05	Cesium-134	pCi/kg	-8.63E+00	2.57E+01	6.00E+01	U
Broad Leaf	9/25/2018 9:05	Cesium-137	pCi/kg	7.31E+00	3.06E+01	8.00E+01	U
Broad Leaf	9/25/2018 9:05	Chromium-51	pCi/kg	2.36E+01	2.55E+02		U
Broad Leaf	9/25/2018 9:05	Cobalt-57	pCi/kg	5.52E+00	2.10E+01		U
Broad Leaf	9/25/2018 9:05	Cobalt-58	pCi/kg	-5.23E+00	2.37E+01		U
Broad Leaf	9/25/2018 9:05	Cobalt-60	pCi/kg	-4.80E-01	3.43E+01		U
Broad Leaf	9/25/2018 9:05	Iodine-131	pCi/kg	-1.14E+01	4.13E+01	6.00E+01	U
Broad Leaf	9/25/2018 9:05	Iron-59	pCi/kg	-1.79E+01	4.50E+01		U
Broad Leaf	9/25/2018 9:05	Lanthanum-140	pCi/kg	-4.24E+00	4.18E+01		U
Broad Leaf	9/25/2018 9:05	Manganese-54	pCi/kg	-8.39E+00	2.32E+01		U
Broad Leaf	9/25/2018 9:05	Niobium-95	pCi/kg	4.37E+00	2.97E+01		U
Broad Leaf	9/25/2018 9:05	Potassium-40	pCi/kg	2.87E+03	2.94E+02		
Broad Leaf	9/25/2018 9:05	Ruthenium-103	pCi/kg	-6.54E+00	2.52E+01		U
Broad Leaf	9/25/2018 9:05	Ruthenium-106	pCi/kg	-1.26E+02	2.43E+02		U
Broad Leaf	9/25/2018 9:05	Selenium-75	pCi/kg	5.70E+00	3.48E+01		U
Broad Leaf	9/25/2018 9:05	Silver-108m	pCi/kg	1.29E+01	2.52E+01		U
Broad Leaf	9/25/2018 9:05	Silver-110m	pCi/kg	1.28E+01	3.74E+01		U
Broad Leaf	9/25/2018 9:05	Thorium-228	pCi/kg	1.44E+01	5.35E+01		U
Broad Leaf	9/25/2018 9:05	Zinc-65	pCi/kg	-1.07E+00	5.86E+01		U
Broad Leaf	9/25/2018 9:05	Zirconium-95	pCi/kg	6.77E+00	4.39E+01		U
Broad Leaf	10/30/2018 9:44	Actinium-228	pCi/kg	-3.14E+01	1.22E+02		U
Broad Leaf	10/30/2018 9:44	Antimony-124	pCi/kg	9.87E+00	6.34E+01		U

Broad Leaf	10/30/2018 9:44	Antimony-125	pCi/kg	-2.80E+01	5.70E+01		U
Broad Leaf	10/30/2018 9:44	Barium-140	pCi/kg	-6.72E+01	1.20E+02		U
Broad Leaf	10/30/2018 9:44	Beryllium-7	pCi/kg	5.10E+03	2.22E+02		
Broad Leaf	10/30/2018 9:44	Cerium-141	pCi/kg	3.65E+01	3.60E+01		UI
Broad Leaf	10/30/2018 9:44	Cerium-144	pCi/kg	3.07E+01	1.42E+02		U
Broad Leaf	10/30/2018 9:44	Cesium-134	pCi/kg	4.60E+00	2.76E+01	6.00E+01	U
Broad Leaf	10/30/2018 9:44	Cesium-137	pCi/kg	2.32E+00	2.63E+01	8.00E+01	U
Broad Leaf	10/30/2018 9:44	Chromium-51	pCi/kg	1.96E+01	2.27E+02		U
Broad Leaf	10/30/2018 9:44	Cobalt-57	pCi/kg	-1.06E+01	1.65E+01		U
Broad Leaf	10/30/2018 9:44	Cobalt-58	pCi/kg	-5.78E+00	2.30E+01		U
Broad Leaf	10/30/2018 9:44	Cobalt-60	pCi/kg	-3.72E+00	2.92E+01		U
Broad Leaf	10/30/2018 9:44	Iodine-131	pCi/kg	-1.51E+01	3.81E+01	6.00E+01	U
Broad Leaf	10/30/2018 9:44	Iron-59	pCi/kg	8.99E+00	5.63E+01		U
Broad Leaf	10/30/2018 9:44	Lanthanum-140	pCi/kg	-5.67E+00	3.65E+01		U
Broad Leaf	10/30/2018 9:44	Manganese-54	pCi/kg	-5.84E+00	2.45E+01		U
Broad Leaf	10/30/2018 9:44	Niobium-95	pCi/kg	7.01E+00	2.79E+01		U
Broad Leaf	10/30/2018 9:44	Potassium-40	pCi/kg	5.18E+03	2.79E+02		
Broad Leaf	10/30/2018 9:44	Ruthenium-103	pCi/kg	3.56E+00	2.52E+01		U
Broad Leaf	10/30/2018 9:44	Ruthenium-106	pCi/kg	-4.88E+01	2.11E+02		U
Broad Leaf	10/30/2018 9:44	Selenium-75	pCi/kg	-1.70E+01	3.03E+01		U
Broad Leaf	10/30/2018 9:44	Silver-108m	pCi/kg	9.98E+00	2.28E+01		U
Broad Leaf	10/30/2018 9:44	Silver-110m	pCi/kg	5.51E+00	3.59E+01		U
Broad Leaf	10/30/2018 9:44	Thorium-228	pCi/kg	2.35E+01	4.82E+01		U
Broad Leaf	10/30/2018 9:44	Zinc-65	pCi/kg	4.91E-01	6.04E+01		U
Broad Leaf	10/30/2018 9:44	Zirconium-95	pCi/kg	-1.60E+01	4.05E+01		U
Broad Leaf	11/27/2018 10:32	Actinium-228	pCi/kg	8.08E+01	1.18E+02		U
Broad Leaf	11/27/2018 10:32	Antimony-124	pCi/kg	-3.34E+00	5.06E+01		U
Broad Leaf	11/27/2018 10:32	Antimony-125	pCi/kg	-1.99E+01	5.92E+01		U
Broad Leaf	11/27/2018 10:32	Barium-140	pCi/kg	5.48E+01	1.17E+02		U
Broad Leaf	11/27/2018 10:32	Beryllium-7	pCi/kg	1.27E+04	1.83E+02		
Broad Leaf	11/27/2018 10:32	Cerium-141	pCi/kg	-3.69E+01	3.35E+01		U
Broad Leaf	11/27/2018 10:32	Cerium-144	pCi/kg	4.84E+01	1.28E+02		U
Broad Leaf	11/27/2018 10:32	Cesium-134	pCi/kg	-1.08E+01	2.25E+01	6.00E+01	U
Broad Leaf	11/27/2018 10:32	Cesium-137	pCi/kg	2.16E+01	2.61E+01	8.00E+01	U
Broad Leaf	11/27/2018 10:32	Chromium-51	pCi/kg	-5.70E+01	2.00E+02		U
Broad Leaf	11/27/2018 10:32	Cobalt-57	pCi/kg	-3.64E+00	1.58E+01		U
Broad Leaf	11/27/2018 10:32	Cobalt-58	pCi/kg	-6.07E+00	2.17E+01		U
Broad Leaf	11/27/2018 10:32	Cobalt-60	pCi/kg	1.64E+01	2.62E+01		U
Broad Leaf	11/27/2018 10:32	Iodine-131	pCi/kg	2.50E+01	4.15E+01	6.00E+01	U
Broad Leaf	11/27/2018 10:32	Iron-59	pCi/kg	-1.09E+01	4.06E+01		U
Broad Leaf	11/27/2018 10:32	Lanthanum-140	pCi/kg	-2.19E+01	3.30E+01		U
Broad Leaf	11/27/2018 10:32	Manganese-54	pCi/kg	7.47E+00	2.33E+01		U
Broad Leaf	11/27/2018 10:32	Niobium-95	pCi/kg	9.60E+00	2.05E+01		U
Broad Leaf	11/27/2018 10:32	Potassium-40	pCi/kg	1.17E+03	2.02E+02		

Broad Leaf	11/27/2018 10:32	Ruthenium-103	pCi/kg	-8.00E-01	2.26E+01		U
Broad Leaf	11/27/2018 10:32	Ruthenium-106	pCi/kg	-4.74E+01	1.98E+02		U
Broad Leaf	11/27/2018 10:32	Selenium-75	pCi/kg	5.33E+00	2.94E+01		U
Broad Leaf	11/27/2018 10:32	Silver-108m	pCi/kg	-6.34E+00	1.85E+01		U
Broad Leaf	11/27/2018 10:32	Silver-110m	pCi/kg	-2.86E+00	3.17E+01		U
Broad Leaf	11/27/2018 10:32	Thorium-228	pCi/kg	3.32E+00	4.61E+01		U
Broad Leaf	11/27/2018 10:32	Zinc-65	pCi/kg	-1.84E+01	3.95E+01		U
Broad Leaf	11/27/2018 10:32	Zirconium-95	pCi/kg	1.80E+01	4.16E+01		U
Broad Leaf	12/25/2018 9:59	Actinium-228	pCi/kg	-2.58E+01	1.10E+02		U
Broad Leaf	12/25/2018 9:59	Antimony-124	pCi/kg	-1.58E+01	4.93E+01		U
Broad Leaf	12/25/2018 9:59	Antimony-125	pCi/kg	1.54E+01	6.13E+01		U
Broad Leaf	12/25/2018 9:59	Barium-140	pCi/kg	4.30E+01	1.01E+02		U
Broad Leaf	12/25/2018 9:59	Beryllium-7	pCi/kg	9.93E+03	1.80E+02		
Broad Leaf	12/25/2018 9:59	Cerium-141	pCi/kg	-5.61E+01	3.29E+01		U
Broad Leaf	12/25/2018 9:59	Cerium-144	pCi/kg	-1.18E+01	1.24E+02		U
Broad Leaf	12/25/2018 9:59	Cesium-134	pCi/kg	-6.77E+00	2.58E+01	6.00E+01	U
Broad Leaf	12/25/2018 9:59	Cesium-137	pCi/kg	3.41E+00	2.42E+01	8.00E+01	U
Broad Leaf	12/25/2018 9:59	Chromium-51	pCi/kg	-3.00E+01	1.92E+02		U
Broad Leaf	12/25/2018 9:59	Cobalt-57	pCi/kg	1.39E+00	1.57E+01		U
Broad Leaf	12/25/2018 9:59	Cobalt-58	pCi/kg	-3.78E+00	2.29E+01		U
Broad Leaf	12/25/2018 9:59	Cobalt-60	pCi/kg	-2.53E+00	2.59E+01		U
Broad Leaf	12/25/2018 9:59	Iodine-131	pCi/kg	2.22E+00	3.13E+01	6.00E+01	U
Broad Leaf	12/25/2018 9:59	Iron-59	pCi/kg	-8.46E+00	4.44E+01		U
Broad Leaf	12/25/2018 9:59	Lanthanum-140	pCi/kg	-6.36E+00	3.03E+01		U
Broad Leaf	12/25/2018 9:59	Manganese-54	pCi/kg	1.61E-01	2.41E+01		U
Broad Leaf	12/25/2018 9:59	Niobium-95	pCi/kg	-5.58E+00	2.30E+01		U
Broad Leaf	12/25/2018 9:59	Potassium-40	pCi/kg	1.34E+03	2.05E+02		
Broad Leaf	12/25/2018 9:59	Ruthenium-103	pCi/kg	-2.76E+00	2.16E+01		U
Broad Leaf	12/25/2018 9:59	Ruthenium-106	pCi/kg	-4.44E+01	2.03E+02		U
Broad Leaf	12/25/2018 9:59	Selenium-75	pCi/kg	2.51E+00	2.92E+01		U
Broad Leaf	12/25/2018 9:59	Silver-108m	pCi/kg	-1.11E+01	1.92E+01		U
Broad Leaf	12/25/2018 9:59	Silver-110m	pCi/kg	-4.87E+00	3.11E+01		U
Broad Leaf	12/25/2018 9:59	Thorium-228	pCi/kg	1.31E+00	4.65E+01		U
Broad Leaf	12/25/2018 9:59	Zinc-65	pCi/kg	-1.13E+01	5.00E+01		U
Broad Leaf	12/25/2018 9:59	Zirconium-95	pCi/kg	-9.69E+00	3.97E+01		U

The data obtained from this website is the most accurate possible at the time of your query and based upon your specific inquiry. This data does not replace the Certificates of Analysis provided by GEL. Certificates of Analysis undergo an additional level of review before being sent to the client that

Notes:

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2. MDCs are calculated a-posteriori values.
3. Gamma spectroscopy analysis results are calculated from a measurement using only one gamma en

4. Air sample volumes are received in units of ft3. GEL converts the units and reports them as m3.

QUALIFIERS:

U Target isotope was analyzed for but not detected above the MDC or LLD.
UI Uncertain identification for gamma spectroscopy.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project mana
M Reported result is less than the LLD and greater than the MDC.
DL DL MDC > LLD.

Sample Data For: "FP-1"

Matrix	Collect Date	Parmname	Units	Result	MDC	LLD	Qualifier
Food Product	6/5/2018 12:00	Actinium-228	pCi/kg	2.57E+01	8.50E+01		U
Food Product	6/5/2018 12:00	Antimony-124	pCi/kg	4.15E+00	2.61E+01		U
Food Product	6/5/2018 12:00	Antimony-125	pCi/kg	5.11E+00	3.71E+01		U
Food Product	6/5/2018 12:00	Barium-140	pCi/kg	-2.88E+01	4.22E+01		U
Food Product	6/5/2018 12:00	Beryllium-7	pCi/kg	-1.67E+01	1.01E+02		U
Food Product	6/5/2018 12:00	Cerium-141	pCi/kg	1.79E+01	2.16E+01		U
Food Product	6/5/2018 12:00	Cerium-144	pCi/kg	-6.07E+00	9.07E+01		U
Food Product	6/5/2018 12:00	Cesium-134	pCi/kg	-3.08E+00	1.38E+01	6.00E+01	U
Food Product	6/5/2018 12:00	Cesium-137	pCi/kg	-3.97E+00	1.20E+01	8.00E+01	U
Food Product	6/5/2018 12:00	Chromium-51	pCi/kg	-2.39E+01	1.10E+02		U
Food Product	6/5/2018 12:00	Cobalt-57	pCi/kg	-6.73E-01	9.97E+00		U
Food Product	6/5/2018 12:00	Cobalt-58	pCi/kg	1.24E+00	1.55E+01		U
Food Product	6/5/2018 12:00	Cobalt-60	pCi/kg	7.97E-01	2.19E+01		U
Food Product	6/5/2018 12:00	Iodine-131	pCi/kg	9.11E+00	2.08E+01	6.00E+01	U
Food Product	6/5/2018 12:00	Iron-59	pCi/kg	-3.73E+00	2.83E+01		U
Food Product	6/5/2018 12:00	Lanthanum-140	pCi/kg	2.68E-01	1.43E+01		U
Food Product	6/5/2018 12:00	Manganese-54	pCi/kg	-5.81E+00	1.35E+01		U
Food Product	6/5/2018 12:00	Niobium-95	pCi/kg	3.29E+00	1.28E+01		U
Food Product	6/5/2018 12:00	Potassium-40	pCi/kg	1.75E+03	1.68E+02		
Food Product	6/5/2018 12:00	Ruthenium-103	pCi/kg	1.66E+00	1.31E+01		U
Food Product	6/5/2018 12:00	Ruthenium-106	pCi/kg	-1.55E+01	1.11E+02		U
Food Product	6/5/2018 12:00	Selenium-75	pCi/kg	-1.58E+00	1.67E+01		U
Food Product	6/5/2018 12:00	Silver-108m	pCi/kg	-5.55E+00	1.10E+01		U
Food Product	6/5/2018 12:00	Silver-110m	pCi/kg	1.45E+00	1.87E+01		U
Food Product	6/5/2018 12:00	Thorium-228	pCi/kg	1.07E+01	2.98E+01		U
Food Product	6/5/2018 12:00	Zinc-65	pCi/kg	2.19E+00	3.10E+01		U
Food Product	6/5/2018 12:00	Zirconium-95	pCi/kg	3.34E+00	2.48E+01		U
Food Product	6/5/2018 12:00	Carbon-14	pCi/kg	-3.66E+03	4.65E+03	3.00E+03	DLU
Food Product	12/11/2018 12:00	Actinium-228	pCi/kg	3.49E+01	6.67E+01		U
Food Product	12/11/2018 12:00	Antimony-124	pCi/kg	-5.62E-01	2.34E+01		U
Food Product	12/11/2018 12:00	Antimony-125	pCi/kg	-4.79E-01	3.20E+01		U
Food Product	12/11/2018 12:00	Barium-140	pCi/kg	9.38E-01	4.61E+01		U
Food Product	12/11/2018 12:00	Beryllium-7	pCi/kg	2.43E+01	1.08E+02		U
Food Product	12/11/2018 12:00	Cerium-141	pCi/kg	-5.58E+00	1.58E+01		U
Food Product	12/11/2018 12:00	Cerium-144	pCi/kg	3.91E+01	7.06E+01		U
Food Product	12/11/2018 12:00	Cesium-134	pCi/kg	6.49E+00	1.47E+01	6.00E+01	U
Food Product	12/11/2018 12:00	Cesium-137	pCi/kg	-1.14E+00	1.28E+01	8.00E+01	U
Food Product	12/11/2018 12:00	Chromium-51	pCi/kg	-3.17E+01	9.36E+01		U
Food Product	12/11/2018 12:00	Cobalt-57	pCi/kg	4.98E+00	9.08E+00		U
Food Product	12/11/2018 12:00	Cobalt-58	pCi/kg	-1.03E+00	1.17E+01		U
Food Product	12/11/2018 12:00	Cobalt-60	pCi/kg	9.62E-01	1.42E+01		U

Food Product	12/11/2018 12:00	Iodine-131	pCi/kg	2.58E+00	1.29E+01	6.00E+01	U
Food Product	12/11/2018 12:00	Iron-59	pCi/kg	-5.94E+00	2.41E+01		U
Food Product	12/11/2018 12:00	Lanthanum-140	pCi/kg	-8.95E+00	1.57E+01		U
Food Product	12/11/2018 12:00	Manganese-54	pCi/kg	-5.60E+00	1.28E+01		U
Food Product	12/11/2018 12:00	Niobium-95	pCi/kg	3.97E+00	1.47E+01		U
Food Product	12/11/2018 12:00	Potassium-40	pCi/kg	5.50E+03	1.12E+02		
Food Product	12/11/2018 12:00	Ruthenium-103	pCi/kg	1.76E+00	1.18E+01		U
Food Product	12/11/2018 12:00	Ruthenium-106	pCi/kg	4.99E+01	1.16E+02		U
Food Product	12/11/2018 12:00	Selenium-75	pCi/kg	7.92E+00	1.59E+01		U
Food Product	12/11/2018 12:00	Silver-108m	pCi/kg	-1.88E+00	9.23E+00		U
Food Product	12/11/2018 12:00	Silver-110m	pCi/kg	7.59E+00	2.07E+01		U
Food Product	12/11/2018 12:00	Thorium-228	pCi/kg	9.93E+00	2.50E+01		U
Food Product	12/11/2018 12:00	Zinc-65	pCi/kg	-1.00E+01	3.28E+01		U
Food Product	12/11/2018 12:00	Zirconium-95	pCi/kg	-1.41E+00	2.16E+01		U

Notes:

1. LLDs are a-priori values.
2. MDCs are calculated a-posteriori values.
3. Gamma spectroscopy analysis results are calculated from a measurement using only one gamma energ
4. Air sample volumes are received in units of ft3. GEL converts the units and reports them as m3.

QUALIFIERS:

U Target isotope was analyzed for but not detected above the MDC or LLD.
UI Uncertain identification for gamma spectroscopy.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager
M Reported result is less than the LLD and greater than the MDC.
DL DL MDC > LLD.

Sample Data For: "FP-2"

Matrix	Collect Date	Parmname	Units	Result	MDC	LLD	Qualifier
Food Product	9/11/2018 12:00	Actinium-228	pCi/kg	-3.02E+01	5.49E+01		U
Food Product	9/11/2018 12:00	Antimony-124	pCi/kg	-1.06E+01	2.87E+01		U
Food Product	9/11/2018 12:00	Antimony-125	pCi/kg	1.68E+01	3.96E+01		U
Food Product	9/11/2018 12:00	Barium-140	pCi/kg	2.98E+00	7.26E+01		U
Food Product	9/11/2018 12:00	Beryllium-7	pCi/kg	-2.96E+01	1.13E+02		U
Food Product	9/11/2018 12:00	Cerium-141	pCi/kg	-1.24E+00	1.96E+01		U
Food Product	9/11/2018 12:00	Cerium-144	pCi/kg	2.44E+01	7.70E+01		U
Food Product	9/11/2018 12:00	Cesium-134	pCi/kg	2.41E+00	1.52E+01	6.00E+01	U

Food Product	9/11/2018 12:00	Cesium-137	pCi/kg	-3.10E+00	1.33E+01	8.00E+01	U
Food Product	9/11/2018 12:00	Chromium-51	pCi/kg	-4.75E+00	1.14E+02		U
Food Product	9/11/2018 12:00	Cobalt-57	pCi/kg	2.68E+00	1.06E+01		U
Food Product	9/11/2018 12:00	Cobalt-58	pCi/kg	-1.12E+00	1.25E+01		U
Food Product	9/11/2018 12:00	Cobalt-60	pCi/kg	3.67E+00	1.69E+01		U
Food Product	9/11/2018 12:00	Iodine-131	pCi/kg	-9.89E-01	2.28E+01	6.00E+01	U
Food Product	9/11/2018 12:00	Iron-59	pCi/kg	3.32E+00	2.68E+01		U
Food Product	9/11/2018 12:00	Lanthanum-140	pCi/kg	3.60E+00	2.28E+01		U
Food Product	9/11/2018 12:00	Manganese-54	pCi/kg	1.87E+00	1.30E+01		U
Food Product	9/11/2018 12:00	Niobium-95	pCi/kg	-1.18E+00	1.38E+01		U
Food Product	9/11/2018 12:00	Potassium-40	pCi/kg	2.59E+03	4.46E+01		
Food Product	9/11/2018 12:00	Ruthenium-103	pCi/kg	5.54E+00	1.45E+01		U
Food Product	9/11/2018 12:00	Ruthenium-106	pCi/kg	4.52E+01	1.42E+02		U
Food Product	9/11/2018 12:00	Selenium-75	pCi/kg	1.18E+00	1.64E+01		U
Food Product	9/11/2018 12:00	Silver-108m	pCi/kg	-6.42E+00	1.03E+01		U
Food Product	9/11/2018 12:00	Silver-110m	pCi/kg	1.20E+01	2.29E+01		U
Food Product	9/11/2018 12:00	Thorium-228	pCi/kg	8.32E+00	1.75E+01		U
Food Product	9/11/2018 12:00	Zinc-65	pCi/kg	-6.52E+00	2.59E+01		U
Food Product	9/11/2018 12:00	Zirconium-95	pCi/kg	-2.79E+00	2.18E+01		U
Food Product	9/11/2018 12:00	Carbon-14	pCi/kg	-9.50E+03	9.33E+03	3.00E+03	DLU
Food Product	9/11/2018 12:00	Actinium-228	pCi/kg	-4.92E+01	4.09E+01		U
Food Product	9/11/2018 12:00	Antimony-124	pCi/kg	3.74E+00	2.45E+01		U
Food Product	9/11/2018 12:00	Antimony-125	pCi/kg	1.97E+00	2.56E+01		U
Food Product	9/11/2018 12:00	Barium-140	pCi/kg	1.05E+01	5.59E+01		U
Food Product	9/11/2018 12:00	Beryllium-7	pCi/kg	6.88E-01	8.56E+01		U
Food Product	9/11/2018 12:00	Cerium-141	pCi/kg	8.92E-01	1.57E+01		U
Food Product	9/11/2018 12:00	Cerium-144	pCi/kg	-1.30E+01	5.48E+01		U
Food Product	9/11/2018 12:00	Cesium-134	pCi/kg	4.16E+00	1.15E+01	6.00E+01	U
Food Product	9/11/2018 12:00	Cesium-137	pCi/kg	-2.93E+00	1.14E+01	8.00E+01	U
Food Product	9/11/2018 12:00	Chromium-51	pCi/kg	-4.69E+01	8.50E+01		U
Food Product	9/11/2018 12:00	Cobalt-57	pCi/kg	3.08E-01	7.42E+00		U
Food Product	9/11/2018 12:00	Cobalt-58	pCi/kg	1.45E+00	1.20E+01		U
Food Product	9/11/2018 12:00	Cobalt-60	pCi/kg	-2.89E+00	1.16E+01		U
Food Product	9/11/2018 12:00	Iodine-131	pCi/kg	-1.66E+00	1.97E+01	6.00E+01	U
Food Product	9/11/2018 12:00	Iron-59	pCi/kg	-7.94E+00	2.31E+01		U
Food Product	9/11/2018 12:00	Lanthanum-140	pCi/kg	2.75E+00	1.96E+01		U
Food Product	9/11/2018 12:00	Manganese-54	pCi/kg	3.63E+00	1.04E+01		U
Food Product	9/11/2018 12:00	Niobium-95	pCi/kg	8.50E-01	1.08E+01		U
Food Product	9/11/2018 12:00	Potassium-40	pCi/kg	3.07E+03	6.79E+01		
Food Product	9/11/2018 12:00	Ruthenium-103	pCi/kg	-2.77E+00	1.06E+01		U
Food Product	9/11/2018 12:00	Ruthenium-106	pCi/kg	-3.92E+01	7.63E+01		U
Food Product	9/11/2018 12:00	Selenium-75	pCi/kg	-2.43E+00	1.25E+01		U
Food Product	9/11/2018 12:00	Silver-108m	pCi/kg	2.10E+00	9.38E+00		U
Food Product	9/11/2018 12:00	Silver-110m	pCi/kg	7.28E-01	1.31E+01		U

Food Product	9/11/2018 12:00	Thorium-228	pCi/kg	-1.37E+00	1.80E+01		U
Food Product	9/11/2018 12:00	Zinc-65	pCi/kg	-3.70E+00	2.58E+01		U
Food Product	9/11/2018 12:00	Zirconium-95	pCi/kg	-1.66E+00	1.99E+01		U
Food Product	9/11/2018 12:00	Carbon-14	pCi/kg	-1.12E+04	8.90E+03	3.00E+03	DLU

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4. Air sample volumes are received in units of ft3. GEL converts the units and reports them as m3.

QUALIFIERS:

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UI Uncertain identification for gamma spectroscopy.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager
M Reported result is less than the LLD and greater than the MDC.
DL DL MDC > LLD.

Sample Data For: "SS-1"

Matrix	Collect Date	Parmname	Units	Result	MDC	LLD	Qualifier
Sediment	1/30/2018 10:00	Actinium-228	pCi/kg	5.08E+02	7.23E+01		
Sediment	1/30/2018 10:00	Antimony-124	pCi/kg	2.03E+01	5.48E+01		U
Sediment	1/30/2018 10:00	Antimony-125	pCi/kg	-2.49E+01	6.51E+01		U
Sediment	1/30/2018 10:00	Barium-140	pCi/kg	1.93E+01	1.29E+02		U
Sediment	1/30/2018 10:00	Beryllium-7	pCi/kg	5.14E+02	1.83E+02		UI
Sediment	1/30/2018 10:00	Bismuth-214	pCi/kg	2.90E+02	5.41E+01		
Sediment	1/30/2018 10:00	Cerium-141	pCi/kg	2.27E+00	4.57E+01		U
Sediment	1/30/2018 10:00	Cerium-144	pCi/kg	-6.77E+01	1.59E+02		U
Sediment	1/30/2018 10:00	Cesium-134	pCi/kg	2.68E+01	3.29E+01	1.50E+02	U
Sediment	1/30/2018 10:00	Cesium-137	pCi/kg	4.24E+01	2.49E+01	1.80E+02	UI
Sediment	1/30/2018 10:00	Chromium-51	pCi/kg	-4.12E+01	2.32E+02		U
Sediment	1/30/2018 10:00	Cobalt-57	pCi/kg	4.42E+00	2.25E+01		U
Sediment	1/30/2018 10:00	Cobalt-58	pCi/kg	-1.04E+01	1.97E+01		U
Sediment	1/30/2018 10:00	Cobalt-60	pCi/kg	8.74E+00	2.86E+01		U
Sediment	1/30/2018 10:00	Iodine-131	pCi/kg	-1.92E+01	4.08E+01		U
Sediment	1/30/2018 10:00	Iron-59	pCi/kg	1.57E+01	5.22E+01		U
Sediment	1/30/2018 10:00	Lanthanum-140	pCi/kg	1.16E+01	4.23E+01		U
Sediment	1/30/2018 10:00	Lead-212	pCi/kg	3.70E+02	4.57E+01		
Sediment	1/30/2018 10:00	Lead-214	pCi/kg	3.48E+02	5.48E+01		
Sediment	1/30/2018 10:00	Manganese-54	pCi/kg	8.20E+00	2.51E+01		U
Sediment	1/30/2018 10:00	Niobium-95	pCi/kg	-3.74E+00	2.65E+01		U
Sediment	1/30/2018 10:00	Potassium-40	pCi/kg	5.16E+03	2.27E+02		
Sediment	1/30/2018 10:00	Radium-226	pCi/kg	2.90E+02	5.41E+01		
Sediment	1/30/2018 10:00	Ruthenium-103	pCi/kg	6.78E-01	2.51E+01		U
Sediment	1/30/2018 10:00	Ruthenium-106	pCi/kg	-4.20E+00	2.50E+02		U
Sediment	1/30/2018 10:00	Selenium-75	pCi/kg	-8.84E+00	3.20E+01		U
Sediment	1/30/2018 10:00	Silver-108m	pCi/kg	-9.01E-01	2.17E+01		U
Sediment	1/30/2018 10:00	Silver-110m	pCi/kg	3.39E+00	3.21E+01		U
Sediment	1/30/2018 10:00	Thallium-208	pCi/kg	1.31E+02	2.59E+01		
Sediment	1/30/2018 10:00	Thorium-228	pCi/kg	3.70E+02	4.57E+01		
Sediment	1/30/2018 10:00	Thorium-230	pCi/kg	2.90E+02	5.41E+01		
Sediment	1/30/2018 10:00	Zinc-65	pCi/kg	2.44E+01	5.66E+01		U
Sediment	1/30/2018 10:00	Zirconium-95	pCi/kg	6.96E+00	4.45E+01		U
Sediment	7/10/2018 9:28	Actinium-228	pCi/kg	5.81E+02	1.94E+02		
Sediment	7/10/2018 9:28	Antimony-124	pCi/kg	7.24E+01	1.85E+02		U
Sediment	7/10/2018 9:28	Antimony-125	pCi/kg	-6.65E+01	1.12E+02		U
Sediment	7/10/2018 9:28	Barium-140	pCi/kg	2.81E+01	2.90E+02		U
Sediment	7/10/2018 9:28	Beryllium-7	pCi/kg	3.32E+02	6.03E+02		U
Sediment	7/10/2018 9:28	Bismuth-214	pCi/kg	2.98E+02	1.32E+02		
Sediment	7/10/2018 9:28	Cerium-141	pCi/kg	-1.39E+01	9.34E+01		U
Sediment	7/10/2018 9:28	Cerium-144	pCi/kg	9.44E+01	3.66E+02		U

Sediment	7/10/2018 9:28	Cesium-134	pCi/kg	-1.53E+01	5.15E+01	1.50E+02	U
Sediment	7/10/2018 9:28	Cesium-137	pCi/kg	2.36E+01	5.75E+01	1.80E+02	U
Sediment	7/10/2018 9:28	Chromium-51	pCi/kg	-1.17E+02	4.88E+02		U
Sediment	7/10/2018 9:28	Cobalt-57	pCi/kg	1.51E+01	4.67E+01		U
Sediment	7/10/2018 9:28	Cobalt-58	pCi/kg	-2.91E+00	3.94E+01		U
Sediment	7/10/2018 9:28	Cobalt-60	pCi/kg	1.55E+01	7.12E+01		U
Sediment	7/10/2018 9:28	Iodine-131	pCi/kg	-3.43E+00	8.64E+01		U
Sediment	7/10/2018 9:28	Iron-59	pCi/kg	-5.54E+01	1.11E+02		U
Sediment	7/10/2018 9:28	Lanthanum-140	pCi/kg	-9.68E+00	8.72E+01		U
Sediment	7/10/2018 9:28	Lead-212	pCi/kg	3.57E+02	8.97E+01		
Sediment	7/10/2018 9:28	Lead-214	pCi/kg	2.20E+02	1.28E+02		
Sediment	7/10/2018 9:28	Manganese-54	pCi/kg	6.24E+00	5.73E+01		U
Sediment	7/10/2018 9:28	Niobium-95	pCi/kg	5.29E+00	5.53E+01		U
Sediment	7/10/2018 9:28	Potassium-40	pCi/kg	6.16E+03	6.86E+02		
Sediment	7/10/2018 9:28	Radium-226	pCi/kg	2.98E+02	1.32E+02		
Sediment	7/10/2018 9:28	Ruthenium-103	pCi/kg	-1.98E+01	5.21E+01		U
Sediment	7/10/2018 9:28	Ruthenium-106	pCi/kg	-6.86E+01	4.98E+02		U
Sediment	7/10/2018 9:28	Selenium-75	pCi/kg	5.72E+00	7.25E+01		U
Sediment	7/10/2018 9:28	Silver-108m	pCi/kg	-4.78E+00	4.79E+01		U
Sediment	7/10/2018 9:28	Silver-110m	pCi/kg	-6.29E+01	5.54E+01		U
Sediment	7/10/2018 9:28	Thallium-208	pCi/kg	1.12E+02	5.06E+01		
Sediment	7/10/2018 9:28	Thorium-228	pCi/kg	3.57E+02	8.97E+01		
Sediment	7/10/2018 9:28	Thorium-230	pCi/kg	2.98E+02	1.32E+02		
Sediment	7/10/2018 9:28	Zinc-65	pCi/kg	3.57E+01	1.16E+02		U
Sediment	7/10/2018 9:28	Zirconium-95	pCi/kg	4.05E+01	1.19E+02		U

The data obtained from this website is the most accurate possible at the time of your query and based upon your specific inquiry. This data does not replace the Certificates of Analysis provided by GEL. Certificates of Analysis undergo an additional level of review before being sent to the

Notes:

1. LLDs are a-priori values.
2. MDCs are calculated a-posteriori values.
3. Gamma spectroscopy analysis results are calculated from a measurement using only one gamma
4. Air sample volumes are received in units of ft3. GEL converts the units and reports them as m3.

QUALIFIERS:

U Target isotope was analyzed for but not detected above the MDC or LLD.
UI Uncertain identification for gamma spectroscopy.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project ma
M Reported result is less than the LLD and greater than the MDC.
DL DL MDC > LLD.

Sample Data For: "SS-2"

Matrix	Collect Date	Parmname	Units	Result	MDC	LLD	Qualifier
Sediment	1/30/2018 12:30	Actinium-228	pCi/kg	1.94E+02	1.06E+02		
Sediment	1/30/2018 12:30	Antimony-124	pCi/kg	-1.06E+01	7.08E+01		U
Sediment	1/30/2018 12:30	Antimony-125	pCi/kg	1.52E+01	7.41E+01		U
Sediment	1/30/2018 12:30	Barium-140	pCi/kg	1.92E+00	1.11E+02		U
Sediment	1/30/2018 12:30	Beryllium-7	pCi/kg	1.24E+02	2.09E+02		U
Sediment	1/30/2018 12:30	Bismuth-214	pCi/kg	2.63E+02	6.22E+01		
Sediment	1/30/2018 12:30	Cerium-141	pCi/kg	-1.64E+01	3.39E+01		U
Sediment	1/30/2018 12:30	Cerium-144	pCi/kg	3.27E+01	1.30E+02		U
Sediment	1/30/2018 12:30	Cesium-134	pCi/kg	1.89E+01	3.60E+01	1.50E+02	U
Sediment	1/30/2018 12:30	Cesium-137	pCi/kg	-2.79E-01	3.09E+01	1.80E+02	U
Sediment	1/30/2018 12:30	Chromium-51	pCi/kg	-2.44E+01	2.12E+02		U
Sediment	1/30/2018 12:30	Cobalt-57	pCi/kg	1.12E+00	1.64E+01		U
Sediment	1/30/2018 12:30	Cobalt-58	pCi/kg	1.29E+00	3.10E+01		U
Sediment	1/30/2018 12:30	Cobalt-60	pCi/kg	-3.48E+00	2.83E+01		U
Sediment	1/30/2018 12:30	Iodine-131	pCi/kg	2.99E+01	3.96E+01		U
Sediment	1/30/2018 12:30	Iron-59	pCi/kg	-1.61E+01	4.86E+01		U
Sediment	1/30/2018 12:30	Lanthanum-140	pCi/kg	-7.22E-01	4.34E+01		U
Sediment	1/30/2018 12:30	Lead-212	pCi/kg	6.39E+01	3.79E+01		
Sediment	1/30/2018 12:30	Lead-214	pCi/kg	1.43E+02	5.12E+01		
Sediment	1/30/2018 12:30	Manganese-54	pCi/kg	8.16E+00	3.04E+01		U
Sediment	1/30/2018 12:30	Niobium-95	pCi/kg	6.90E+00	3.04E+01		U
Sediment	1/30/2018 12:30	Potassium-40	pCi/kg	7.36E+02	2.11E+02		
Sediment	1/30/2018 12:30	Radium-226	pCi/kg	2.63E+02	6.22E+01		
Sediment	1/30/2018 12:30	Ruthenium-103	pCi/kg	2.44E+00	2.84E+01		U
Sediment	1/30/2018 12:30	Ruthenium-106	pCi/kg	-3.19E+01	2.72E+02		U
Sediment	1/30/2018 12:30	Selenium-75	pCi/kg	-3.21E+00	3.32E+01		U
Sediment	1/30/2018 12:30	Silver-108m	pCi/kg	1.11E+00	1.93E+01		U
Sediment	1/30/2018 12:30	Silver-110m	pCi/kg	-9.09E+00	3.81E+01		U
Sediment	1/30/2018 12:30	Thallium-208	pCi/kg	1.28E+01	2.72E+01		U
Sediment	1/30/2018 12:30	Thorium-228	pCi/kg	6.39E+01	3.79E+01		
Sediment	1/30/2018 12:30	Thorium-230	pCi/kg	2.63E+02	6.22E+01		
Sediment	1/30/2018 12:30	Zinc-65	pCi/kg	5.39E+00	5.85E+01		U
Sediment	1/30/2018 12:30	Zirconium-95	pCi/kg	-3.46E+00	4.65E+01		U
Sediment	7/10/2018 10:32	Actinium-228	pCi/kg	7.28E+02	2.03E+02		
Sediment	7/10/2018 10:32	Antimony-124	pCi/kg	2.14E+01	9.23E+01		U
Sediment	7/10/2018 10:32	Antimony-125	pCi/kg	1.15E+01	1.38E+02		U
Sediment	7/10/2018 10:32	Barium-140	pCi/kg	1.95E+02	2.98E+02		U
Sediment	7/10/2018 10:32	Beryllium-7	pCi/kg	7.24E+02	3.73E+02		
Sediment	7/10/2018 10:32	Bismuth-214	pCi/kg	6.64E+02	9.83E+01		
Sediment	7/10/2018 10:32	Cerium-141	pCi/kg	1.93E-01	8.56E+01		U
Sediment	7/10/2018 10:32	Cerium-144	pCi/kg	-6.62E+01	2.80E+02		U

Sediment	7/10/2018 10:32	Cesium-134	pCi/kg	5.06E+01	7.39E+01	1.50E+02	U
Sediment	7/10/2018 10:32	Cesium-137	pCi/kg	3.82E+01	5.36E+01	1.80E+02	U
Sediment	7/10/2018 10:32	Chromium-51	pCi/kg	-6.71E+01	4.69E+02		U
Sediment	7/10/2018 10:32	Cobalt-57	pCi/kg	-8.64E-01	3.33E+01		U
Sediment	7/10/2018 10:32	Cobalt-58	pCi/kg	-1.33E+01	4.34E+01		U
Sediment	7/10/2018 10:32	Cobalt-60	pCi/kg	-1.98E+01	4.18E+01		U
Sediment	7/10/2018 10:32	Iodine-131	pCi/kg	1.17E+01	1.05E+02		U
Sediment	7/10/2018 10:32	Iron-59	pCi/kg	3.81E+01	1.12E+02		U
Sediment	7/10/2018 10:32	Lanthanum-140	pCi/kg	-3.35E+01	3.66E+01		U
Sediment	7/10/2018 10:32	Lead-212	pCi/kg	5.87E+02	8.70E+01		
Sediment	7/10/2018 10:32	Lead-214	pCi/kg	5.05E+02	9.91E+01		
Sediment	7/10/2018 10:32	Manganese-54	pCi/kg	1.27E+01	4.22E+01		U
Sediment	7/10/2018 10:32	Niobium-95	pCi/kg	1.82E+01	6.86E+01		U
Sediment	7/10/2018 10:32	Potassium-40	pCi/kg	7.58E+03	4.53E+02		
Sediment	7/10/2018 10:32	Radium-226	pCi/kg	6.64E+02	9.83E+01		
Sediment	7/10/2018 10:32	Ruthenium-103	pCi/kg	2.03E+00	4.72E+01		U
Sediment	7/10/2018 10:32	Ruthenium-106	pCi/kg	6.04E+01	4.59E+02		U
Sediment	7/10/2018 10:32	Selenium-75	pCi/kg	4.31E+00	6.61E+01		U
Sediment	7/10/2018 10:32	Silver-108m	pCi/kg	-6.21E+00	4.83E+01		U
Sediment	7/10/2018 10:32	Silver-110m	pCi/kg	1.74E+01	7.76E+01		U
Sediment	7/10/2018 10:32	Thallium-208	pCi/kg	1.57E+02	5.19E+01		
Sediment	7/10/2018 10:32	Thorium-228	pCi/kg	5.87E+02	8.70E+01		
Sediment	7/10/2018 10:32	Thorium-230	pCi/kg	6.64E+02	9.83E+01		
Sediment	7/10/2018 10:32	Zinc-65	pCi/kg	1.40E+01	9.73E+01		U
Sediment	7/10/2018 10:32	Zirconium-95	pCi/kg	-1.14E+01	8.29E+01		U

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QUALIFIERS:

U Target isotope was analyzed for but not detected above the MDC or LLD.
UI Uncertain identification for gamma spectroscopy.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project ma
M Reported result is less than the LLD and greater than the MDC.
DL DL MDC > LLD.

Sample Data For: "SS-3"

Matrix	Collect Date	Parmname	Units	Result	MDC	LLD	Qualifier
Sediment	1/30/2018 10:31	Actinium-228	pCi/kg	4.79E+02	1.22E+02		
Sediment	1/30/2018 10:31	Antimony-124	pCi/kg	-1.95E+01	2.82E+01		U
Sediment	1/30/2018 10:31	Antimony-125	pCi/kg	5.81E+00	9.30E+01		U
Sediment	1/30/2018 10:31	Barium-140	pCi/kg	4.79E+01	1.53E+02		U
Sediment	1/30/2018 10:31	Beryllium-7	pCi/kg	2.17E+02	3.70E+02		U
Sediment	1/30/2018 10:31	Bismuth-214	pCi/kg	4.43E+02	7.40E+01		
Sediment	1/30/2018 10:31	Cerium-141	pCi/kg	8.93E+00	4.27E+01		U
Sediment	1/30/2018 10:31	Cerium-144	pCi/kg	1.01E+01	1.65E+02		U
Sediment	1/30/2018 10:31	Cesium-134	pCi/kg	-1.44E+00	4.37E+01	1.50E+02	U
Sediment	1/30/2018 10:31	Cesium-137	pCi/kg	2.50E+01	4.76E+01	1.80E+02	U
Sediment	1/30/2018 10:31	Chromium-51	pCi/kg	4.30E+01	2.81E+02		U
Sediment	1/30/2018 10:31	Cobalt-57	pCi/kg	5.83E+00	2.23E+01		U
Sediment	1/30/2018 10:31	Cobalt-58	pCi/kg	-1.21E+01	2.62E+01		U
Sediment	1/30/2018 10:31	Cobalt-60	pCi/kg	7.60E+00	3.56E+01		U
Sediment	1/30/2018 10:31	Iodine-131	pCi/kg	1.25E+01	4.85E+01		U
Sediment	1/30/2018 10:31	Iron-59	pCi/kg	2.75E+01	8.00E+01		U
Sediment	1/30/2018 10:31	Lanthanum-140	pCi/kg	2.49E+00	5.17E+01		U
Sediment	1/30/2018 10:31	Lead-212	pCi/kg	4.98E+02	4.45E+01		
Sediment	1/30/2018 10:31	Lead-214	pCi/kg	5.50E+02	5.98E+01		
Sediment	1/30/2018 10:31	Manganese-54	pCi/kg	-2.58E+00	3.17E+01		U
Sediment	1/30/2018 10:31	Niobium-95	pCi/kg	-8.34E+00	3.91E+01		U
Sediment	1/30/2018 10:31	Potassium-40	pCi/kg	7.36E+03	4.59E+02		
Sediment	1/30/2018 10:31	Radium-226	pCi/kg	4.43E+02	7.40E+01		
Sediment	1/30/2018 10:31	Ruthenium-103	pCi/kg	3.94E+00	3.54E+01		U
Sediment	1/30/2018 10:31	Ruthenium-106	pCi/kg	-7.16E+01	2.60E+02		U
Sediment	1/30/2018 10:31	Selenium-75	pCi/kg	-3.91E+00	3.82E+01		U
Sediment	1/30/2018 10:31	Silver-108m	pCi/kg	2.64E+00	2.86E+01		U
Sediment	1/30/2018 10:31	Silver-110m	pCi/kg	-9.36E+00	4.09E+01		U
Sediment	1/30/2018 10:31	Thallium-208	pCi/kg	1.62E+02	3.35E+01		
Sediment	1/30/2018 10:31	Thorium-228	pCi/kg	4.98E+02	4.45E+01		
Sediment	1/30/2018 10:31	Thorium-230	pCi/kg	4.43E+02	7.40E+01		
Sediment	1/30/2018 10:31	Zinc-65	pCi/kg	1.45E+01	7.58E+01		U
Sediment	1/30/2018 10:31	Zirconium-95	pCi/kg	-1.62E+00	5.77E+01		U
Sediment	7/10/2018 10:03	Actinium-228	pCi/kg	1.10E+02	1.56E+02		U
Sediment	7/10/2018 10:03	Antimony-124	pCi/kg	-1.57E+01	5.10E+01		U
Sediment	7/10/2018 10:03	Antimony-125	pCi/kg	-4.64E+01	5.70E+01		U
Sediment	7/10/2018 10:03	Barium-140	pCi/kg	-8.56E+00	1.30E+02		U
Sediment	7/10/2018 10:03	Beryllium-7	pCi/kg	-2.96E+01	2.40E+02		U
Sediment	7/10/2018 10:03	Bismuth-214	pCi/kg	1.60E+02	4.48E+01		
Sediment	7/10/2018 10:03	Cerium-141	pCi/kg	-1.56E-02	3.83E+01		U
Sediment	7/10/2018 10:03	Cerium-144	pCi/kg	-9.89E+00	1.42E+02		U

Sediment	7/10/2018 10:03	Cesium-134	pCi/kg	1.05E+01	3.39E+01	1.50E+02	U
Sediment	7/10/2018 10:03	Cesium-137	pCi/kg	-4.39E+00	1.45E+01	1.80E+02	U
Sediment	7/10/2018 10:03	Chromium-51	pCi/kg	1.04E+02	2.71E+02		U
Sediment	7/10/2018 10:03	Cobalt-57	pCi/kg	-6.77E+00	1.70E+01		U
Sediment	7/10/2018 10:03	Cobalt-58	pCi/kg	1.45E+00	2.90E+01		U
Sediment	7/10/2018 10:03	Cobalt-60	pCi/kg	-4.46E+00	2.91E+01		U
Sediment	7/10/2018 10:03	Iodine-131	pCi/kg	-1.62E+01	5.04E+01		U
Sediment	7/10/2018 10:03	Iron-59	pCi/kg	-7.88E+00	3.95E+01		U
Sediment	7/10/2018 10:03	Lanthanum-140	pCi/kg	-3.43E+01	2.71E+01		U
Sediment	7/10/2018 10:03	Lead-212	pCi/kg	8.81E+01	4.70E+01		
Sediment	7/10/2018 10:03	Lead-214	pCi/kg	2.12E+02	1.12E+02		
Sediment	7/10/2018 10:03	Manganese-54	pCi/kg	1.09E+00	2.77E+01		U
Sediment	7/10/2018 10:03	Niobium-95	pCi/kg	-2.22E+00	2.95E+01		U
Sediment	7/10/2018 10:03	Potassium-40	pCi/kg	1.91E+03	2.74E+02		
Sediment	7/10/2018 10:03	Radium-226	pCi/kg	1.60E+02	4.48E+01		
Sediment	7/10/2018 10:03	Ruthenium-103	pCi/kg	-1.07E+01	2.71E+01		U
Sediment	7/10/2018 10:03	Ruthenium-106	pCi/kg	-3.51E+01	2.44E+02		U
Sediment	7/10/2018 10:03	Selenium-75	pCi/kg	7.07E+00	3.80E+01		U
Sediment	7/10/2018 10:03	Silver-108m	pCi/kg	-7.27E+00	1.99E+01		U
Sediment	7/10/2018 10:03	Silver-110m	pCi/kg	-2.02E+01	2.89E+01		U
Sediment	7/10/2018 10:03	Thallium-208	pCi/kg	4.34E+01	2.30E+01		
Sediment	7/10/2018 10:03	Thorium-228	pCi/kg	8.81E+01	4.70E+01		
Sediment	7/10/2018 10:03	Thorium-230	pCi/kg	1.60E+02	4.48E+01		
Sediment	7/10/2018 10:03	Zinc-65	pCi/kg	7.33E+00	5.70E+01		U
Sediment	7/10/2018 10:03	Zirconium-95	pCi/kg	4.37E+00	5.12E+01		U

Notes:

1. LLDs are a-priori values.
2. MDCs are calculated a-posteriori values.
3. Gamma spectroscopy analysis results are calculated from a measurement using only one gamma
4. Air sample volumes are received in units of ft3. GEL converts the units and reports them as m3.

QUALIFIERS:

U Target isotope was analyzed for but not detected above the MDC or LLD.
UI Uncertain identification for gamma spectroscopy.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project ma
M Reported result is less than the LLD and greater than the MDC.
DL DL MDC > LLD.

Sample Data For: "SS-4"

Matrix	Collect Date	Parmname	Units	Result	MDC	LLD	Qualifier
Sediment	1/30/2018 9:14	Actinium-228	pCi/kg	4.81E+02	1.63E+02		
Sediment	1/30/2018 9:14	Antimony-124	pCi/kg	6.33E+01	1.12E+02		U
Sediment	1/30/2018 9:14	Antimony-125	pCi/kg	-4.66E+01	8.54E+01		U
Sediment	1/30/2018 9:14	Barium-140	pCi/kg	-7.47E+01	1.54E+02		U
Sediment	1/30/2018 9:14	Beryllium-7	pCi/kg	3.30E+02	3.81E+02		U
Sediment	1/30/2018 9:14	Bismuth-214	pCi/kg	4.53E+02	7.85E+01		
Sediment	1/30/2018 9:14	Cerium-141	pCi/kg	-2.43E+01	5.85E+01		U
Sediment	1/30/2018 9:14	Cerium-144	pCi/kg	-6.46E+01	2.12E+02		U
Sediment	1/30/2018 9:14	Cesium-134	pCi/kg	1.99E+01	5.38E+01	1.50E+02	U
Sediment	1/30/2018 9:14	Cesium-137	pCi/kg	8.27E+01	4.04E+01	1.80E+02	UI
Sediment	1/30/2018 9:14	Chromium-51	pCi/kg	2.82E+01	3.44E+02		U
Sediment	1/30/2018 9:14	Cobalt-57	pCi/kg	1.29E+00	2.49E+01		U
Sediment	1/30/2018 9:14	Cobalt-58	pCi/kg	3.49E+00	4.43E+01		U
Sediment	1/30/2018 9:14	Cobalt-60	pCi/kg	-1.66E+01	3.88E+01		U
Sediment	1/30/2018 9:14	Iodine-131	pCi/kg	-2.24E+01	5.63E+01		U
Sediment	1/30/2018 9:14	Iron-59	pCi/kg	-4.08E+00	7.15E+01		U
Sediment	1/30/2018 9:14	Lanthanum-140	pCi/kg	2.21E+00	5.62E+01		U
Sediment	1/30/2018 9:14	Lead-212	pCi/kg	5.43E+02	6.58E+01		
Sediment	1/30/2018 9:14	Lead-214	pCi/kg	3.41E+02	9.06E+01		
Sediment	1/30/2018 9:14	Manganese-54	pCi/kg	1.76E+01	4.68E+01		U
Sediment	1/30/2018 9:14	Niobium-95	pCi/kg	2.37E+01	5.11E+01		U
Sediment	1/30/2018 9:14	Potassium-40	pCi/kg	7.66E+03	4.79E+02		
Sediment	1/30/2018 9:14	Radium-226	pCi/kg	4.53E+02	7.85E+01		
Sediment	1/30/2018 9:14	Ruthenium-103	pCi/kg	-5.01E+00	4.00E+01		U
Sediment	1/30/2018 9:14	Ruthenium-106	pCi/kg	-2.02E+02	3.21E+02		U
Sediment	1/30/2018 9:14	Selenium-75	pCi/kg	1.23E+00	5.30E+01		U
Sediment	1/30/2018 9:14	Silver-108m	pCi/kg	7.44E+00	3.47E+01		U
Sediment	1/30/2018 9:14	Silver-110m	pCi/kg	-3.87E+00	5.35E+01		U
Sediment	1/30/2018 9:14	Thallium-208	pCi/kg	1.79E+02	3.69E+01		
Sediment	1/30/2018 9:14	Thorium-228	pCi/kg	5.43E+02	6.58E+01		
Sediment	1/30/2018 9:14	Thorium-230	pCi/kg	4.53E+02	7.85E+01		
Sediment	1/30/2018 9:14	Zinc-65	pCi/kg	2.12E+01	9.72E+01		U
Sediment	1/30/2018 9:14	Zirconium-95	pCi/kg	-3.91E+00	7.51E+01		U
Sediment	7/10/2018 8:42	Actinium-228	pCi/kg	6.84E+02	1.62E+02		
Sediment	7/10/2018 8:42	Antimony-124	pCi/kg	7.22E+00	9.61E+01		U
Sediment	7/10/2018 8:42	Antimony-125	pCi/kg	3.46E-01	1.32E+02		U
Sediment	7/10/2018 8:42	Barium-140	pCi/kg	-8.21E+00	2.32E+02		U
Sediment	7/10/2018 8:42	Beryllium-7	pCi/kg	4.63E+01	4.22E+02		U
Sediment	7/10/2018 8:42	Bismuth-214	pCi/kg	4.17E+02	8.55E+01		
Sediment	7/10/2018 8:42	Cerium-141	pCi/kg	5.82E+00	5.84E+01		U
Sediment	7/10/2018 8:42	Cerium-144	pCi/kg	-3.36E+00	1.99E+02		U

Sediment	7/10/2018 8:42	Cesium-134	pCi/kg	3.26E+01	6.50E+01	1.50E+02	U
Sediment	7/10/2018 8:42	Cesium-137	pCi/kg	5.13E+01	5.64E+01	1.80E+02	U
Sediment	7/10/2018 8:42	Chromium-51	pCi/kg	5.37E+01	4.10E+02		U
Sediment	7/10/2018 8:42	Cobalt-57	pCi/kg	9.73E+00	2.73E+01		U
Sediment	7/10/2018 8:42	Cobalt-58	pCi/kg	-2.47E+00	4.38E+01		U
Sediment	7/10/2018 8:42	Cobalt-60	pCi/kg	-1.43E+01	4.39E+01		U
Sediment	7/10/2018 8:42	Iodine-131	pCi/kg	-3.72E+01	6.91E+01		U
Sediment	7/10/2018 8:42	Iron-59	pCi/kg	1.25E+01	9.96E+01		U
Sediment	7/10/2018 8:42	Lanthanum-140	pCi/kg	7.93E+00	6.90E+01		U
Sediment	7/10/2018 8:42	Lead-212	pCi/kg	5.44E+02	7.77E+01		
Sediment	7/10/2018 8:42	Lead-214	pCi/kg	4.62E+02	2.22E+02		
Sediment	7/10/2018 8:42	Manganese-54	pCi/kg	-3.59E+00	5.47E+01		U
Sediment	7/10/2018 8:42	Niobium-95	pCi/kg	-2.88E+01	4.80E+01		U
Sediment	7/10/2018 8:42	Potassium-40	pCi/kg	8.09E+03	2.96E+02		
Sediment	7/10/2018 8:42	Radium-226	pCi/kg	4.17E+02	8.55E+01		
Sediment	7/10/2018 8:42	Ruthenium-103	pCi/kg	1.48E+00	3.84E+01		U
Sediment	7/10/2018 8:42	Ruthenium-106	pCi/kg	-2.23E+00	3.90E+02		U
Sediment	7/10/2018 8:42	Selenium-75	pCi/kg	-7.85E+00	4.58E+01		U
Sediment	7/10/2018 8:42	Silver-108m	pCi/kg	-2.44E+01	3.62E+01		U
Sediment	7/10/2018 8:42	Silver-110m	pCi/kg	-8.66E+00	6.87E+01		U
Sediment	7/10/2018 8:42	Thallium-208	pCi/kg	1.65E+02	5.23E+01		
Sediment	7/10/2018 8:42	Thorium-228	pCi/kg	5.44E+02	7.77E+01		
Sediment	7/10/2018 8:42	Thorium-230	pCi/kg	4.17E+02	8.55E+01		
Sediment	7/10/2018 8:42	Zinc-65	pCi/kg	3.12E+01	1.13E+02		U
Sediment	7/10/2018 8:42	Zirconium-95	pCi/kg	-1.18E+01	8.25E+01		U

The data obtained from this website is the most accurate possible at the time of your query and based upon your specific inquiry. This data does not replace the Certificates of Analysis provided by GEL. Certificates of Analysis undergo an additional level of review before being sent to the

Notes:

1. LLDs are a-priori values.
2. MDCs are calculated a-posteriori values.
3. Gamma spectroscopy analysis results are calculated from a measurement using only one gamma
4. Air sample volumes are received in units of ft3. GEL converts the units and reports them as m3.

QUALIFIERS:

U Target isotope was analyzed for but not detected above the MDC or LLD.
UI Uncertain identification for gamma spectroscopy.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project ma
M Reported result is less than the LLD and greater than the MDC.
DL DL MDC > LLD.

Sample Data For: "GW-1"

Matrix	Collect Date	Parmname	Units	Result	MDC	LLD	Qualifier
Ground Water	3/27/2018 13:06	Actinium-228	pCi/L	6.97E+00	6.36E+00		UI
Ground Water	3/27/2018 13:06	Antimony-124	pCi/L	1.78E+00	4.03E+00		U
Ground Water	3/27/2018 13:06	Antimony-125	pCi/L	-1.27E+00	3.68E+00		U
Ground Water	3/27/2018 13:06	Barium-140	pCi/L	-1.40E+00	7.16E+00	1.50E+01	U
Ground Water	3/27/2018 13:06	Beryllium-7	pCi/L	-3.29E+00	1.29E+01		U
Ground Water	3/27/2018 13:06	Cerium-141	pCi/L	-1.37E+00	2.68E+00		U
Ground Water	3/27/2018 13:06	Cerium-144	pCi/L	1.28E+00	9.99E+00		U
Ground Water	3/27/2018 13:06	Cesium-134	pCi/L	7.24E-02	1.61E+00	1.50E+01	U
Ground Water	3/27/2018 13:06	Cesium-137	pCi/L	8.68E-01	1.57E+00	1.80E+01	U
Ground Water	3/27/2018 13:06	Chromium-51	pCi/L	-2.13E+00	1.36E+01		U
Ground Water	3/27/2018 13:06	Cobalt-57	pCi/L	-2.61E-01	1.29E+00		U
Ground Water	3/27/2018 13:06	Cobalt-58	pCi/L	7.40E-01	1.51E+00	1.50E+01	U
Ground Water	3/27/2018 13:06	Cobalt-60	pCi/L	1.84E-01	1.53E+00	1.50E+01	U
Ground Water	3/27/2018 13:06	Iodine-131	pCi/L	-2.67E-01	2.70E+00		U
Ground Water	3/27/2018 13:06	Iron-59	pCi/L	9.71E-01	3.06E+00	3.00E+01	U
Ground Water	3/27/2018 13:06	Lanthanum-140	pCi/L	-1.82E-01	2.80E+00	1.50E+01	U
Ground Water	3/27/2018 13:06	Manganese-54	pCi/L	-6.46E-02	1.44E+00	1.50E+01	U
Ground Water	3/27/2018 13:06	Niobium-95	pCi/L	-7.44E-01	1.40E+00	1.50E+01	U
Ground Water	3/27/2018 13:06	Potassium-40	pCi/L	-1.71E+01	2.08E+01		U
Ground Water	3/27/2018 13:06	Ruthenium-103	pCi/L	-1.83E-01	1.49E+00		U
Ground Water	3/27/2018 13:06	Ruthenium-106	pCi/L	-5.17E+00	1.14E+01		U
Ground Water	3/27/2018 13:06	Selenium-75	pCi/L	-8.31E-01	1.93E+00		U
Ground Water	3/27/2018 13:06	Silver-108m	pCi/L	-3.81E-01	1.27E+00		U
Ground Water	3/27/2018 13:06	Silver-110m	pCi/L	-5.47E-01	1.90E+00		U
Ground Water	3/27/2018 13:06	Thorium-228	pCi/L	7.31E-01	3.23E+00		U
Ground Water	3/27/2018 13:06	Zinc-65	pCi/L	2.08E+00	3.28E+00	3.00E+01	U
Ground Water	3/27/2018 13:06	Zirconium-95	pCi/L	-2.72E-01	2.45E+00	1.50E+01	U
Ground Water	3/27/2018 13:06	Tritium	pCi/L	-1.08E+02	5.38E+02	2.00E+03	U
Ground Water	6/26/2018 10:22	Actinium-228	pCi/L	-8.37E+00	6.51E+00		U
Ground Water	6/26/2018 10:22	Antimony-124	pCi/L	-2.35E-01	3.43E+00		U
Ground Water	6/26/2018 10:22	Antimony-125	pCi/L	1.83E+00	3.90E+00		U
Ground Water	6/26/2018 10:22	Barium-140	pCi/L	2.49E+00	6.14E+00	1.50E+01	U
Ground Water	6/26/2018 10:22	Beryllium-7	pCi/L	7.95E-02	1.16E+01		U
Ground Water	6/26/2018 10:22	Cerium-141	pCi/L	-4.29E+00	2.10E+00		U
Ground Water	6/26/2018 10:22	Cerium-144	pCi/L	2.44E-01	8.06E+00		U
Ground Water	6/26/2018 10:22	Cesium-134	pCi/L	-3.75E-01	1.49E+00	1.50E+01	U
Ground Water	6/26/2018 10:22	Cesium-137	pCi/L	7.95E-02	1.51E+00	1.80E+01	U
Ground Water	6/26/2018 10:22	Chromium-51	pCi/L	1.15E+00	1.22E+01		U
Ground Water	6/26/2018 10:22	Cobalt-57	pCi/L	-3.59E-01	1.03E+00		U
Ground Water	6/26/2018 10:22	Cobalt-58	pCi/L	-1.21E-01	1.47E+00	1.50E+01	U
Ground Water	6/26/2018 10:22	Cobalt-60	pCi/L	-3.44E-01	1.45E+00	1.50E+01	U

Ground Water	6/26/2018 10:22	Iodine-131	pCi/L	-6.47E-02	1.88E+00		U
Ground Water	6/26/2018 10:22	Iron-59	pCi/L	1.46E-01	2.96E+00	3.00E+01	U
Ground Water	6/26/2018 10:22	Lanthanum-140	pCi/L	-1.91E+00	1.90E+00	1.50E+01	U
Ground Water	6/26/2018 10:22	Manganese-54	pCi/L	-2.02E-01	1.40E+00	1.50E+01	U
Ground Water	6/26/2018 10:22	Niobium-95	pCi/L	-4.16E-02	1.41E+00	1.50E+01	U
Ground Water	6/26/2018 10:22	Potassium-40	pCi/L	4.74E+01	1.30E+01		
Ground Water	6/26/2018 10:22	Ruthenium-103	pCi/L	-6.80E-01	1.43E+00		U
Ground Water	6/26/2018 10:22	Ruthenium-106	pCi/L	-1.20E-03	1.32E+01		U
Ground Water	6/26/2018 10:22	Selenium-75	pCi/L	-6.85E-01	1.72E+00		U
Ground Water	6/26/2018 10:22	Silver-108m	pCi/L	1.45E-02	1.25E+00		U
Ground Water	6/26/2018 10:22	Silver-110m	pCi/L	5.58E-01	2.04E+00		U
Ground Water	6/26/2018 10:22	Thorium-228	pCi/L	2.17E+00	2.90E+00		U
Ground Water	6/26/2018 10:22	Zinc-65	pCi/L	1.13E+00	2.93E+00	3.00E+01	U
Ground Water	6/26/2018 10:22	Zirconium-95	pCi/L	-8.24E-01	2.32E+00	1.50E+01	U
Ground Water	6/26/2018 10:22	Tritium	pCi/L	-1.90E+02	5.93E+02	2.00E+03	U
Ground Water	9/25/2018 8:05	Actinium-228	pCi/L	-1.60E+00	6.40E+00		U
Ground Water	9/25/2018 8:05	Antimony-124	pCi/L	-1.08E+00	3.13E+00		U
Ground Water	9/25/2018 8:05	Antimony-125	pCi/L	-8.06E-01	3.24E+00		U
Ground Water	9/25/2018 8:05	Barium-140	pCi/L	2.69E+00	6.96E+00	1.50E+01	U
Ground Water	9/25/2018 8:05	Beryllium-7	pCi/L	-6.30E-01	1.07E+01		U
Ground Water	9/25/2018 8:05	Cerium-141	pCi/L	-1.19E-01	2.28E+00		U
Ground Water	9/25/2018 8:05	Cerium-144	pCi/L	2.78E-01	8.42E+00		U
Ground Water	9/25/2018 8:05	Cesium-134	pCi/L	2.18E-01	1.41E+00	1.50E+01	U
Ground Water	9/25/2018 8:05	Cesium-137	pCi/L	1.38E-01	1.25E+00	1.80E+01	U
Ground Water	9/25/2018 8:05	Chromium-51	pCi/L	6.67E+00	1.32E+01		U
Ground Water	9/25/2018 8:05	Cobalt-57	pCi/L	-3.02E-01	1.12E+00		U
Ground Water	9/25/2018 8:05	Cobalt-58	pCi/L	6.22E-01	1.44E+00	1.50E+01	U
Ground Water	9/25/2018 8:05	Cobalt-60	pCi/L	-1.91E+00	1.39E+00	1.50E+01	U
Ground Water	9/25/2018 8:05	Iodine-131	pCi/L	-2.29E-01	2.62E+00		U
Ground Water	9/25/2018 8:05	Iron-59	pCi/L	8.20E-01	2.76E+00	3.00E+01	U
Ground Water	9/25/2018 8:05	Lanthanum-140	pCi/L	-1.34E+00	2.23E+00	1.50E+01	U
Ground Water	9/25/2018 8:05	Manganese-54	pCi/L	2.61E-01	1.25E+00	1.50E+01	U
Ground Water	9/25/2018 8:05	Niobium-95	pCi/L	5.16E-01	1.45E+00	1.50E+01	U
Ground Water	9/25/2018 8:05	Potassium-40	pCi/L	1.92E+01	1.14E+01		UI
Ground Water	9/25/2018 8:05	Ruthenium-103	pCi/L	6.63E-01	1.34E+00		U
Ground Water	9/25/2018 8:05	Ruthenium-106	pCi/L	-2.70E+00	1.07E+01		U
Ground Water	9/25/2018 8:05	Selenium-75	pCi/L	1.03E-01	1.72E+00		U
Ground Water	9/25/2018 8:05	Silver-108m	pCi/L	-6.98E-02	1.07E+00		U
Ground Water	9/25/2018 8:05	Silver-110m	pCi/L	-3.92E-01	1.53E+00		U
Ground Water	9/25/2018 8:05	Thorium-228	pCi/L	7.74E-01	2.29E+00		U
Ground Water	9/25/2018 8:05	Zinc-65	pCi/L	-9.28E-01	2.48E+00	3.00E+01	U
Ground Water	9/25/2018 8:05	Zirconium-95	pCi/L	2.46E-01	2.27E+00	1.50E+01	U
Ground Water	9/25/2018 8:05	Tritium	pCi/L	5.45E+01	5.63E+02	2.00E+03	U
Ground Water	12/25/2018 9:33	Tritium	pCi/L	-3.59E+01	4.14E+02	2.00E+03	U

Ground Water	12/25/2018 9:33	Actinium-228	pCi/L	2.17E+00	5.04E+00		U
Ground Water	12/25/2018 9:33	Antimony-124	pCi/L	-7.61E-01	2.95E+00		U
Ground Water	12/25/2018 9:33	Antimony-125	pCi/L	1.89E+00	4.01E+00		U
Ground Water	12/25/2018 9:33	Barium-140	pCi/L	-2.08E+00	8.84E+00	1.50E+01	U
Ground Water	12/25/2018 9:33	Beryllium-7	pCi/L	-3.09E+00	1.29E+01		U
Ground Water	12/25/2018 9:33	Cerium-141	pCi/L	-8.68E-01	2.80E+00		U
Ground Water	12/25/2018 9:33	Cerium-144	pCi/L	-3.21E+00	9.82E+00		U
Ground Water	12/25/2018 9:33	Cesium-134	pCi/L	6.45E-01	1.70E+00	1.50E+01	U
Ground Water	12/25/2018 9:33	Cesium-137	pCi/L	7.97E-01	1.55E+00	1.80E+01	U
Ground Water	12/25/2018 9:33	Chromium-51	pCi/L	-2.74E+00	1.47E+01		U
Ground Water	12/25/2018 9:33	Cobalt-57	pCi/L	-1.30E-01	1.34E+00		U
Ground Water	12/25/2018 9:33	Cobalt-58	pCi/L	-4.81E-01	1.43E+00	1.50E+01	U
Ground Water	12/25/2018 9:33	Cobalt-60	pCi/L	5.09E-01	1.60E+00	1.50E+01	U
Ground Water	12/25/2018 9:33	Iodine-131	pCi/L	1.47E+00	3.59E+00		U
Ground Water	12/25/2018 9:33	Iron-59	pCi/L	2.55E-02	3.39E+00	3.00E+01	U
Ground Water	12/25/2018 9:33	Lanthanum-140	pCi/L	-1.18E+00	2.64E+00	1.50E+01	U
Ground Water	12/25/2018 9:33	Manganese-54	pCi/L	2.40E-01	1.49E+00	1.50E+01	U
Ground Water	12/25/2018 9:33	Niobium-95	pCi/L	1.19E+00	1.28E+00	1.50E+01	U
Ground Water	12/25/2018 9:33	Potassium-40	pCi/L	1.96E+01	1.51E+01		UI
Ground Water	12/25/2018 9:33	Ruthenium-103	pCi/L	-4.05E-01	1.57E+00		U
Ground Water	12/25/2018 9:33	Ruthenium-106	pCi/L	-3.12E-01	1.30E+01		U
Ground Water	12/25/2018 9:33	Selenium-75	pCi/L	1.25E-01	2.04E+00		U
Ground Water	12/25/2018 9:33	Silver-108m	pCi/L	-2.75E-01	1.28E+00		U
Ground Water	12/25/2018 9:33	Silver-110m	pCi/L	-4.83E-01	1.90E+00		U
Ground Water	12/25/2018 9:33	Thorium-228	pCi/L	4.57E+00	3.67E+00		UI
Ground Water	12/25/2018 9:33	Zinc-65	pCi/L	1.09E+00	3.04E+00	3.00E+01	U
Ground Water	12/25/2018 9:33	Zirconium-95	pCi/L	-6.63E-01	2.59E+00	1.50E+01	U

Notes:

1. LLDs are a-priori values.
2. MDCs are calculated a-posteriori values.
3. Gamma spectroscopy analysis results are calculated from a measurement using only one gamma energ
4. Air sample volumes are received in units of ft3. GEL converts the units and reports them as m3.

QUALIFIERS:

U Target isotope was analyzed for but not detected above the MDC or LLD.
UI Uncertain identification for gamma spectroscopy.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project manage
M Reported result is less than the LLD and greater than the MDC.

DL DL MDC > LLD.

Sample Data For: "GW-2"

line.

Matrix	Collect Date	Parmname	Units	Result	MDC	LLD	Qualifier
Ground Water	3/27/2018 12:48	Actinium-228	pCi/L	5.37E+00	6.36E+00		U
Ground Water	3/27/2018 12:48	Antimony-124	pCi/L	-7.40E-01	3.69E+00		U
Ground Water	3/27/2018 12:48	Antimony-125	pCi/L	6.18E-01	4.48E+00		U
Ground Water	3/27/2018 12:48	Barium-140	pCi/L	3.71E-01	8.88E+00	1.50E+01	U
Ground Water	3/27/2018 12:48	Beryllium-7	pCi/L	-7.77E+00	1.35E+01		U
Ground Water	3/27/2018 12:48	Cerium-141	pCi/L	5.47E-01	2.61E+00		U
Ground Water	3/27/2018 12:48	Cerium-144	pCi/L	1.46E+00	9.56E+00		U
Ground Water	3/27/2018 12:48	Cesium-134	pCi/L	-7.63E-01	1.88E+00	1.50E+01	U
Ground Water	3/27/2018 12:48	Cesium-137	pCi/L	6.94E-01	1.82E+00	1.80E+01	U
Ground Water	3/27/2018 12:48	Chromium-51	pCi/L	-6.24E+00	1.49E+01		U
Ground Water	3/27/2018 12:48	Cobalt-57	pCi/L	5.60E-01	1.24E+00		U
Ground Water	3/27/2018 12:48	Cobalt-58	pCi/L	5.44E-01	1.71E+00	1.50E+01	U
Ground Water	3/27/2018 12:48	Cobalt-60	pCi/L	-2.11E-01	1.69E+00	1.50E+01	U
Ground Water	3/27/2018 12:48	Iodine-131	pCi/L	-6.02E-01	2.90E+00		U
Ground Water	3/27/2018 12:48	Iron-59	pCi/L	-2.12E+00	3.59E+00	3.00E+01	U
Ground Water	3/27/2018 12:48	Lanthanum-140	pCi/L	-7.81E-01	3.00E+00	1.50E+01	U
Ground Water	3/27/2018 12:48	Manganese-54	pCi/L	1.46E-03	1.70E+00	1.50E+01	U
Ground Water	3/27/2018 12:48	Niobium-95	pCi/L	-9.06E-01	1.73E+00	1.50E+01	U
Ground Water	3/27/2018 12:48	Potassium-40	pCi/L	2.77E+01	1.53E+01		UI
Ground Water	3/27/2018 12:48	Ruthenium-103	pCi/L	-4.84E-01	1.64E+00		U
Ground Water	3/27/2018 12:48	Ruthenium-106	pCi/L	-3.94E+00	1.47E+01		U
Ground Water	3/27/2018 12:48	Selenium-75	pCi/L	7.39E-01	2.18E+00		U
Ground Water	3/27/2018 12:48	Silver-108m	pCi/L	-8.30E-02	1.42E+00		U
Ground Water	3/27/2018 12:48	Silver-110m	pCi/L	-5.07E-01	2.20E+00		U
Ground Water	3/27/2018 12:48	Thorium-228	pCi/L	1.61E+00	2.71E+00		U
Ground Water	3/27/2018 12:48	Zinc-65	pCi/L	5.84E-01	3.30E+00	3.00E+01	U
Ground Water	3/27/2018 12:48	Zirconium-95	pCi/L	-7.54E-01	3.16E+00	1.50E+01	U
Ground Water	3/27/2018 12:48	Tritium	pCi/L	4.37E+01	5.16E+02	2.00E+03	U
Ground Water	6/26/2018 10:32	Actinium-228	pCi/L	4.00E+00	5.74E+00		U
Ground Water	6/26/2018 10:32	Antimony-124	pCi/L	-1.06E+00	2.29E+00		U
Ground Water	6/26/2018 10:32	Antimony-125	pCi/L	1.26E-01	3.01E+00		U
Ground Water	6/26/2018 10:32	Barium-140	pCi/L	-9.47E-02	4.82E+00	1.50E+01	U
Ground Water	6/26/2018 10:32	Beryllium-7	pCi/L	-3.34E+00	9.87E+00		U
Ground Water	6/26/2018 10:32	Cerium-141	pCi/L	6.50E-01	1.91E+00		U
Ground Water	6/26/2018 10:32	Cerium-144	pCi/L	-1.69E+00	7.31E+00		U
Ground Water	6/26/2018 10:32	Cesium-134	pCi/L	-6.78E-02	1.28E+00	1.50E+01	U
Ground Water	6/26/2018 10:32	Cesium-137	pCi/L	-1.80E+00	1.23E+00	1.80E+01	U
Ground Water	6/26/2018 10:32	Chromium-51	pCi/L	-3.74E+00	9.27E+00		U
Ground Water	6/26/2018 10:32	Cobalt-57	pCi/L	1.44E-01	9.71E-01		U

Ground Water	6/26/2018 10:32	Cobalt-58	pCi/L	-7.42E-01	1.10E+00	1.50E+01	U
Ground Water	6/26/2018 10:32	Cobalt-60	pCi/L	1.90E-01	1.19E+00	1.50E+01	U
Ground Water	6/26/2018 10:32	Iodine-131	pCi/L	3.52E-01	1.56E+00		U
Ground Water	6/26/2018 10:32	Iron-59	pCi/L	9.02E-02	2.36E+00	3.00E+01	U
Ground Water	6/26/2018 10:32	Lanthanum-140	pCi/L	3.76E-01	1.73E+00	1.50E+01	U
Ground Water	6/26/2018 10:32	Manganese-54	pCi/L	-2.73E-01	1.14E+00	1.50E+01	U
Ground Water	6/26/2018 10:32	Niobium-95	pCi/L	2.71E-01	1.26E+00	1.50E+01	U
Ground Water	6/26/2018 10:32	Potassium-40	pCi/L	2.42E+01	1.14E+01		UI
Ground Water	6/26/2018 10:32	Ruthenium-103	pCi/L	3.72E-03	1.18E+00		U
Ground Water	6/26/2018 10:32	Ruthenium-106	pCi/L	2.13E+00	1.11E+01		U
Ground Water	6/26/2018 10:32	Selenium-75	pCi/L	1.44E-01	1.54E+00		U
Ground Water	6/26/2018 10:32	Silver-108m	pCi/L	6.26E-01	1.01E+00		U
Ground Water	6/26/2018 10:32	Silver-110m	pCi/L	-7.05E-01	1.45E+00		U
Ground Water	6/26/2018 10:32	Thorium-228	pCi/L	-4.73E-01	2.48E+00		U
Ground Water	6/26/2018 10:32	Zinc-65	pCi/L	1.10E+00	2.26E+00	3.00E+01	U
Ground Water	6/26/2018 10:32	Zirconium-95	pCi/L	-8.37E-01	2.00E+00	1.50E+01	U
Ground Water	6/26/2018 10:32	Tritium	pCi/L	-1.06E+02	6.00E+02	2.00E+03	U
Ground Water	9/25/2018 8:31	Actinium-228	pCi/L	4.97E-01	7.29E+00		U
Ground Water	9/25/2018 8:31	Antimony-124	pCi/L	6.29E-01	3.56E+00		U
Ground Water	9/25/2018 8:31	Antimony-125	pCi/L	-6.71E-02	3.86E+00		U
Ground Water	9/25/2018 8:31	Barium-140	pCi/L	-7.07E-01	8.00E+00	1.50E+01	U
Ground Water	9/25/2018 8:31	Beryllium-7	pCi/L	-8.21E-01	1.20E+01		U
Ground Water	9/25/2018 8:31	Cerium-141	pCi/L	-1.31E+00	2.96E+00		U
Ground Water	9/25/2018 8:31	Cerium-144	pCi/L	-1.40E+00	1.08E+01		U
Ground Water	9/25/2018 8:31	Cesium-134	pCi/L	-2.05E-01	1.47E+00	1.50E+01	U
Ground Water	9/25/2018 8:31	Cesium-137	pCi/L	-8.48E-01	1.54E+00	1.80E+01	U
Ground Water	9/25/2018 8:31	Chromium-51	pCi/L	-2.35E+00	1.44E+01		U
Ground Water	9/25/2018 8:31	Cobalt-57	pCi/L	-2.89E-01	1.37E+00		U
Ground Water	9/25/2018 8:31	Cobalt-58	pCi/L	-4.51E-01	1.38E+00	1.50E+01	U
Ground Water	9/25/2018 8:31	Cobalt-60	pCi/L	-3.30E-01	1.39E+00	1.50E+01	U
Ground Water	9/25/2018 8:31	Iodine-131	pCi/L	-1.12E+00	3.17E+00		U
Ground Water	9/25/2018 8:31	Iron-59	pCi/L	-2.54E-01	3.12E+00	3.00E+01	U
Ground Water	9/25/2018 8:31	Lanthanum-140	pCi/L	-1.22E+00	2.48E+00	1.50E+01	U
Ground Water	9/25/2018 8:31	Manganese-54	pCi/L	1.44E-01	1.52E+00	1.50E+01	U
Ground Water	9/25/2018 8:31	Niobium-95	pCi/L	6.19E-01	1.64E+00	1.50E+01	U
Ground Water	9/25/2018 8:31	Potassium-40	pCi/L	-2.29E+01	2.11E+01		U
Ground Water	9/25/2018 8:31	Ruthenium-103	pCi/L	-1.06E-01	1.49E+00		U
Ground Water	9/25/2018 8:31	Ruthenium-106	pCi/L	5.19E+00	1.29E+01		U
Ground Water	9/25/2018 8:31	Selenium-75	pCi/L	-1.24E-01	2.08E+00		U
Ground Water	9/25/2018 8:31	Silver-108m	pCi/L	-3.62E-01	1.25E+00		U
Ground Water	9/25/2018 8:31	Silver-110m	pCi/L	-1.02E-01	1.78E+00		U
Ground Water	9/25/2018 8:31	Thorium-228	pCi/L	2.03E+00	3.44E+00		U
Ground Water	9/25/2018 8:31	Zinc-65	pCi/L	-1.04E+00	2.86E+00	3.00E+01	U
Ground Water	9/25/2018 8:31	Zirconium-95	pCi/L	1.20E+00	2.75E+00	1.50E+01	U

Ground Water	9/25/2018 8:31	Tritium	pCi/L	-9.71E+00	5.55E+02	2.00E+03	U
Ground Water	12/25/2018 9:06	Tritium	pCi/L	-3.82E+01	2.68E+02	2.00E+03	U
Ground Water	12/25/2018 9:06	Actinium-228	pCi/L	-2.32E+00	7.09E+00		U
Ground Water	12/25/2018 9:06	Antimony-124	pCi/L	2.23E-01	3.95E+00		U
Ground Water	12/25/2018 9:06	Antimony-125	pCi/L	1.12E+00	4.27E+00		U
Ground Water	12/25/2018 9:06	Barium-140	pCi/L	-6.40E+00	8.47E+00	1.50E+01	U
Ground Water	12/25/2018 9:06	Beryllium-7	pCi/L	9.15E+00	1.45E+01		U
Ground Water	12/25/2018 9:06	Cerium-141	pCi/L	1.12E+00	2.81E+00		U
Ground Water	12/25/2018 9:06	Cerium-144	pCi/L	-3.23E+00	1.01E+01		U
Ground Water	12/25/2018 9:06	Cesium-134	pCi/L	-7.03E-01	1.60E+00	1.50E+01	U
Ground Water	12/25/2018 9:06	Cesium-137	pCi/L	9.69E-01	1.60E+00	1.80E+01	U
Ground Water	12/25/2018 9:06	Chromium-51	pCi/L	1.62E+00	1.57E+01		U
Ground Water	12/25/2018 9:06	Cobalt-57	pCi/L	-7.86E-02	1.34E+00		U
Ground Water	12/25/2018 9:06	Cobalt-58	pCi/L	-7.29E-01	1.45E+00	1.50E+01	U
Ground Water	12/25/2018 9:06	Cobalt-60	pCi/L	-4.82E-01	1.43E+00	1.50E+01	U
Ground Water	12/25/2018 9:06	Iodine-131	pCi/L	-1.02E+00	3.43E+00		U
Ground Water	12/25/2018 9:06	Iron-59	pCi/L	-1.33E+00	3.12E+00	3.00E+01	U
Ground Water	12/25/2018 9:06	Lanthanum-140	pCi/L	-1.20E+00	2.81E+00	1.50E+01	U
Ground Water	12/25/2018 9:06	Manganese-54	pCi/L	-4.29E-02	1.49E+00	1.50E+01	U
Ground Water	12/25/2018 9:06	Niobium-95	pCi/L	4.30E-01	1.53E+00	1.50E+01	U
Ground Water	12/25/2018 9:06	Potassium-40	pCi/L	-1.99E+01	2.35E+01		U
Ground Water	12/25/2018 9:06	Ruthenium-103	pCi/L	3.95E-01	1.62E+00		U
Ground Water	12/25/2018 9:06	Ruthenium-106	pCi/L	7.36E-01	1.36E+01		U
Ground Water	12/25/2018 9:06	Selenium-75	pCi/L	6.39E-01	2.13E+00		U
Ground Water	12/25/2018 9:06	Silver-108m	pCi/L	-4.43E-01	1.33E+00		U
Ground Water	12/25/2018 9:06	Silver-110m	pCi/L	1.03E-01	1.93E+00		U
Ground Water	12/25/2018 9:06	Thorium-228	pCi/L	-1.23E+00	3.33E+00		U
Ground Water	12/25/2018 9:06	Zinc-65	pCi/L	1.31E+00	3.29E+00	3.00E+01	U
Ground Water	12/25/2018 9:06	Zirconium-95	pCi/L	-5.11E-01	2.48E+00	1.50E+01	U

Notes:

1. LLDs are a-priori values.
2. MDCs are calculated a-posteriori values.
3. Gamma spectroscopy analysis results are calculated from a measurement using only one gamma energ
4. Air sample volumes are received in units of ft3. GEL converts the units and reports them as m3.

QUALIFIERS:

U Target isotope was analyzed for but not detected above the MDC or LLD.
UI Uncertain identification for gamma spectroscopy.

X Lab-specific qualifier-please see case narrative, data summary package or contact your project manage
M Reported result is less than the LLD and greater than the MDC.
DL DL MDC > LLD.

Sample Data For: "GW-3"

Matrix	Collect Date	Parmname	Units	Result	MDC	LLD	Qualifier
Ground Water	3/27/2018 11:14	Actinium-228	pCi/L	4.03E+00	7.55E+00		U
Ground Water	3/27/2018 11:14	Antimony-124	pCi/L	-1.07E+00	3.71E+00		U
Ground Water	3/27/2018 11:14	Antimony-125	pCi/L	-7.02E-03	4.40E+00		U
Ground Water	3/27/2018 11:14	Barium-140	pCi/L	-2.87E+00	7.52E+00	1.50E+01	U
Ground Water	3/27/2018 11:14	Beryllium-7	pCi/L	4.44E-01	1.41E+01		U
Ground Water	3/27/2018 11:14	Cerium-141	pCi/L	-2.94E-03	2.84E+00		U
Ground Water	3/27/2018 11:14	Cerium-144	pCi/L	2.67E+00	1.11E+01		U
Ground Water	3/27/2018 11:14	Cesium-134	pCi/L	-1.27E+00	1.72E+00	1.50E+01	U
Ground Water	3/27/2018 11:14	Cesium-137	pCi/L	-9.34E-01	1.52E+00	1.80E+01	U
Ground Water	3/27/2018 11:14	Chromium-51	pCi/L	3.32E+00	1.64E+01		U
Ground Water	3/27/2018 11:14	Cobalt-57	pCi/L	-2.89E-01	1.39E+00		U
Ground Water	3/27/2018 11:14	Cobalt-58	pCi/L	-1.52E-01	1.63E+00	1.50E+01	U
Ground Water	3/27/2018 11:14	Cobalt-60	pCi/L	-2.55E-01	1.69E+00	1.50E+01	U
Ground Water	3/27/2018 11:14	Iodine-131	pCi/L	2.83E-01	2.91E+00		U
Ground Water	3/27/2018 11:14	Iron-59	pCi/L	-2.13E-01	3.27E+00	3.00E+01	U
Ground Water	3/27/2018 11:14	Lanthanum-140	pCi/L	-3.73E-01	3.15E+00	1.50E+01	U
Ground Water	3/27/2018 11:14	Manganese-54	pCi/L	-2.04E-01	1.46E+00	1.50E+01	U
Ground Water	3/27/2018 11:14	Niobium-95	pCi/L	3.01E-01	1.73E+00	1.50E+01	U
Ground Water	3/27/2018 11:14	Potassium-40	pCi/L	-2.30E+01	2.34E+01		U
Ground Water	3/27/2018 11:14	Ruthenium-103	pCi/L	1.39E-01	1.62E+00		U
Ground Water	3/27/2018 11:14	Ruthenium-106	pCi/L	5.73E+00	1.45E+01		U
Ground Water	3/27/2018 11:14	Selenium-75	pCi/L	-5.36E-01	2.10E+00		U
Ground Water	3/27/2018 11:14	Silver-108m	pCi/L	3.33E-01	1.46E+00		U
Ground Water	3/27/2018 11:14	Silver-110m	pCi/L	-4.03E-01	2.11E+00		U
Ground Water	3/27/2018 11:14	Thorium-228	pCi/L	-2.64E-01	3.79E+00		U
Ground Water	3/27/2018 11:14	Zinc-65	pCi/L	1.88E+00	3.19E+00	3.00E+01	U
Ground Water	3/27/2018 11:14	Zirconium-95	pCi/L	-1.64E+00	2.35E+00	1.50E+01	U
Ground Water	3/27/2018 11:14	Tritium	pCi/L	-1.99E+02	5.61E+02	2.00E+03	U
Ground Water	6/26/2018 11:20	Actinium-228	pCi/L	2.71E+00	6.45E+00		U
Ground Water	6/26/2018 11:20	Antimony-124	pCi/L	8.62E-02	3.34E+00		U
Ground Water	6/26/2018 11:20	Antimony-125	pCi/L	-2.31E-01	3.67E+00		U
Ground Water	6/26/2018 11:20	Barium-140	pCi/L	-5.71E-01	5.61E+00	1.50E+01	U
Ground Water	6/26/2018 11:20	Beryllium-7	pCi/L	4.67E+00	1.24E+01		U
Ground Water	6/26/2018 11:20	Cerium-141	pCi/L	-2.87E-01	2.35E+00		U
Ground Water	6/26/2018 11:20	Cerium-144	pCi/L	2.87E+00	9.96E+00		U
Ground Water	6/26/2018 11:20	Cesium-134	pCi/L	3.75E-01	1.58E+00	1.50E+01	U
Ground Water	6/26/2018 11:20	Cesium-137	pCi/L	3.78E-01	1.55E+00	1.80E+01	U

Ground Water	6/26/2018 11:20	Chromium-51	pCi/L	3.57E+00	1.21E+01		U
Ground Water	6/26/2018 11:20	Cobalt-57	pCi/L	2.31E-01	1.34E+00		U
Ground Water	6/26/2018 11:20	Cobalt-58	pCi/L	2.57E-01	1.29E+00	1.50E+01	U
Ground Water	6/26/2018 11:20	Cobalt-60	pCi/L	1.50E-01	1.44E+00	1.50E+01	U
Ground Water	6/26/2018 11:20	Iodine-131	pCi/L	5.61E-01	1.82E+00		U
Ground Water	6/26/2018 11:20	Iron-59	pCi/L	-3.37E-01	2.59E+00	3.00E+01	U
Ground Water	6/26/2018 11:20	Lanthanum-140	pCi/L	-4.64E-01	1.97E+00	1.50E+01	U
Ground Water	6/26/2018 11:20	Manganese-54	pCi/L	-9.32E-02	1.46E+00	1.50E+01	U
Ground Water	6/26/2018 11:20	Niobium-95	pCi/L	4.39E-01	1.54E+00	1.50E+01	U
Ground Water	6/26/2018 11:20	Potassium-40	pCi/L	1.89E+01	1.35E+01		UI
Ground Water	6/26/2018 11:20	Ruthenium-103	pCi/L	-4.41E-01	1.33E+00		U
Ground Water	6/26/2018 11:20	Ruthenium-106	pCi/L	-1.65E+00	1.32E+01		U
Ground Water	6/26/2018 11:20	Selenium-75	pCi/L	2.15E-01	1.71E+00		U
Ground Water	6/26/2018 11:20	Silver-108m	pCi/L	1.01E+00	1.32E+00		U
Ground Water	6/26/2018 11:20	Silver-110m	pCi/L	-8.14E-01	1.81E+00		U
Ground Water	6/26/2018 11:20	Thorium-228	pCi/L	9.75E-01	2.92E+00		U
Ground Water	6/26/2018 11:20	Zinc-65	pCi/L	6.63E-01	3.06E+00	3.00E+01	U
Ground Water	6/26/2018 11:20	Zirconium-95	pCi/L	7.39E-02	2.53E+00	1.50E+01	U
Ground Water	6/26/2018 11:20	Tritium	pCi/L	-8.86E+01	5.94E+02	2.00E+03	U
Ground Water	9/25/2018 9:22	Actinium-228	pCi/L	-2.87E+00	6.77E+00		U
Ground Water	9/25/2018 9:22	Antimony-124	pCi/L	5.63E-01	3.81E+00		U
Ground Water	9/25/2018 9:22	Antimony-125	pCi/L	-4.97E-01	3.87E+00		U
Ground Water	9/25/2018 9:22	Barium-140	pCi/L	-2.85E-02	8.45E+00	1.50E+01	U
Ground Water	9/25/2018 9:22	Beryllium-7	pCi/L	9.04E-02	1.35E+01		U
Ground Water	9/25/2018 9:22	Cerium-141	pCi/L	-1.03E+00	2.81E+00		U
Ground Water	9/25/2018 9:22	Cerium-144	pCi/L	-2.77E+00	1.00E+01		U
Ground Water	9/25/2018 9:22	Cesium-134	pCi/L	3.36E-01	1.54E+00	1.50E+01	U
Ground Water	9/25/2018 9:22	Cesium-137	pCi/L	3.60E-02	1.52E+00	1.80E+01	U
Ground Water	9/25/2018 9:22	Chromium-51	pCi/L	4.56E+00	1.59E+01		U
Ground Water	9/25/2018 9:22	Cobalt-57	pCi/L	-5.13E-01	1.31E+00		U
Ground Water	9/25/2018 9:22	Cobalt-58	pCi/L	1.05E+00	1.31E+00	1.50E+01	U
Ground Water	9/25/2018 9:22	Cobalt-60	pCi/L	-7.05E-02	1.64E+00	1.50E+01	U
Ground Water	9/25/2018 9:22	Iodine-131	pCi/L	3.14E-01	3.33E+00		U
Ground Water	9/25/2018 9:22	Iron-59	pCi/L	1.29E+00	3.07E+00	3.00E+01	U
Ground Water	9/25/2018 9:22	Lanthanum-140	pCi/L	-3.68E+00	2.76E+00	1.50E+01	U
Ground Water	9/25/2018 9:22	Manganese-54	pCi/L	-1.64E+00	1.25E+00	1.50E+01	U
Ground Water	9/25/2018 9:22	Niobium-95	pCi/L	2.11E-01	1.56E+00	1.50E+01	U
Ground Water	9/25/2018 9:22	Potassium-40	pCi/L	-3.91E+00	2.36E+01		U
Ground Water	9/25/2018 9:22	Ruthenium-103	pCi/L	-1.52E-02	1.57E+00		U
Ground Water	9/25/2018 9:22	Ruthenium-106	pCi/L	-1.48E-01	1.34E+01		U
Ground Water	9/25/2018 9:22	Selenium-75	pCi/L	-1.15E+00	1.97E+00		U
Ground Water	9/25/2018 9:22	Silver-108m	pCi/L	3.27E-01	1.28E+00		U
Ground Water	9/25/2018 9:22	Silver-110m	pCi/L	-3.19E-02	1.95E+00		U
Ground Water	9/25/2018 9:22	Thorium-228	pCi/L	3.05E+00	3.50E+00		U

Ground Water	9/25/2018 9:22	Zinc-65	pCi/L	-1.45E+00	3.10E+00	3.00E+01	U
Ground Water	9/25/2018 9:22	Zirconium-95	pCi/L	-1.53E-01	2.49E+00	1.50E+01	U
Ground Water	9/25/2018 9:22	Tritium	pCi/L	5.52E+01	5.64E+02	2.00E+03	U
Ground Water	12/25/2018 10:15	Tritium	pCi/L	-1.12E+02	2.73E+02	2.00E+03	U
Ground Water	12/25/2018 10:15	Actinium-228	pCi/L	-5.01E+00	6.21E+00		U
Ground Water	12/25/2018 10:15	Antimony-124	pCi/L	1.29E+00	3.68E+00		U
Ground Water	12/25/2018 10:15	Antimony-125	pCi/L	8.96E-01	3.61E+00		U
Ground Water	12/25/2018 10:15	Barium-140	pCi/L	-1.16E-01	7.98E+00	1.50E+01	U
Ground Water	12/25/2018 10:15	Beryllium-7	pCi/L	7.93E+00	1.29E+01		U
Ground Water	12/25/2018 10:15	Cerium-141	pCi/L	-3.73E+00	2.52E+00		U
Ground Water	12/25/2018 10:15	Cerium-144	pCi/L	7.43E-01	8.80E+00		U
Ground Water	12/25/2018 10:15	Cesium-134	pCi/L	3.81E-01	1.42E+00	1.50E+01	U
Ground Water	12/25/2018 10:15	Cesium-137	pCi/L	2.48E-02	1.41E+00	1.80E+01	U
Ground Water	12/25/2018 10:15	Chromium-51	pCi/L	-1.02E+00	1.37E+01		U
Ground Water	12/25/2018 10:15	Cobalt-57	pCi/L	-3.09E-02	1.14E+00		U
Ground Water	12/25/2018 10:15	Cobalt-58	pCi/L	-7.22E-02	1.35E+00	1.50E+01	U
Ground Water	12/25/2018 10:15	Cobalt-60	pCi/L	-1.65E-02	1.43E+00	1.50E+01	U
Ground Water	12/25/2018 10:15	Iodine-131	pCi/L	-7.73E-01	3.12E+00		U
Ground Water	12/25/2018 10:15	Iron-59	pCi/L	-1.02E+00	2.57E+00	3.00E+01	U
Ground Water	12/25/2018 10:15	Lanthanum-140	pCi/L	-1.36E-01	2.75E+00	1.50E+01	U
Ground Water	12/25/2018 10:15	Manganese-54	pCi/L	-8.78E-02	1.26E+00	1.50E+01	U
Ground Water	12/25/2018 10:15	Niobium-95	pCi/L	-8.28E-01	1.46E+00	1.50E+01	U
Ground Water	12/25/2018 10:15	Potassium-40	pCi/L	1.04E+01	1.25E+01		U
Ground Water	12/25/2018 10:15	Ruthenium-103	pCi/L	7.25E-01	1.41E+00		U
Ground Water	12/25/2018 10:15	Ruthenium-106	pCi/L	1.49E+00	1.25E+01		U
Ground Water	12/25/2018 10:15	Selenium-75	pCi/L	-6.25E-01	1.82E+00		U
Ground Water	12/25/2018 10:15	Silver-108m	pCi/L	-3.39E-01	1.11E+00		U
Ground Water	12/25/2018 10:15	Silver-110m	pCi/L	3.26E-01	1.93E+00		U
Ground Water	12/25/2018 10:15	Thorium-228	pCi/L	2.19E+00	2.33E+00		U
Ground Water	12/25/2018 10:15	Zinc-65	pCi/L	5.34E-01	2.87E+00	3.00E+01	U
Ground Water	12/25/2018 10:15	Zirconium-95	pCi/L	-5.42E-01	2.34E+00	1.50E+01	U

The data obtained from this website is the most accurate possible at the time of your query and based upon your specific inquiry. This data does not replace the Certificates of Analysis provided by GEL. Certificates of Analysis undergo an additional level of review before being sent to the client that is not

Notes:

1. LLDs are a-priori values.
2. MDCs are calculated a-posteriori values.
3. Gamma spectroscopy analysis results are calculated from a measurement using only one gamma energ
4. Air sample volumes are received in units of ft3. GEL converts the units and reports them as m3.

QUALIFIERS:

U Target isotope was analyzed for but not detected above the MDC or LLD.
UI Uncertain identification for gamma spectroscopy.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project manage
M Reported result is less than the LLD and greater than the MDC.
DL DL MDC > LLD.

Sample Data For: "GW-4"

Matrix	Collect Date	Parmname	Units	Result	MDC	LLD	Qualifier
Ground Water	3/27/2018 9:36	Actinium-228	pCi/L	6.14E+00	7.10E+00		U
Ground Water	3/27/2018 9:36	Antimony-124	pCi/L	4.91E-01	3.39E+00		U
Ground Water	3/27/2018 9:36	Antimony-125	pCi/L	-6.63E-01	3.54E+00		U
Ground Water	3/27/2018 9:36	Barium-140	pCi/L	1.52E+00	6.71E+00	1.50E+01	U
Ground Water	3/27/2018 9:36	Beryllium-7	pCi/L	2.64E+00	1.16E+01		U
Ground Water	3/27/2018 9:36	Cerium-141	pCi/L	4.44E-01	2.51E+00		U
Ground Water	3/27/2018 9:36	Cerium-144	pCi/L	5.41E+00	9.38E+00		U
Ground Water	3/27/2018 9:36	Cesium-134	pCi/L	-1.67E-01	1.41E+00	1.50E+01	U
Ground Water	3/27/2018 9:36	Cesium-137	pCi/L	-2.79E-01	1.44E+00	1.80E+01	U
Ground Water	3/27/2018 9:36	Chromium-51	pCi/L	2.39E+00	1.40E+01		U
Ground Water	3/27/2018 9:36	Cobalt-57	pCi/L	4.52E-02	1.21E+00		U
Ground Water	3/27/2018 9:36	Cobalt-58	pCi/L	6.53E-01	1.44E+00	1.50E+01	U
Ground Water	3/27/2018 9:36	Cobalt-60	pCi/L	-5.79E-01	1.33E+00	1.50E+01	U
Ground Water	3/27/2018 9:36	Iodine-131	pCi/L	2.01E+00	2.67E+00		U
Ground Water	3/27/2018 9:36	Iron-59	pCi/L	3.89E+00	2.93E+00	3.00E+01	UI
Ground Water	3/27/2018 9:36	Lanthanum-140	pCi/L	-3.59E-02	2.61E+00	1.50E+01	U
Ground Water	3/27/2018 9:36	Manganese-54	pCi/L	-3.67E-01	1.21E+00	1.50E+01	U
Ground Water	3/27/2018 9:36	Niobium-95	pCi/L	-2.81E-01	1.40E+00	1.50E+01	U
Ground Water	3/27/2018 9:36	Potassium-40	pCi/L	-1.88E+01	2.07E+01		U
Ground Water	3/27/2018 9:36	Ruthenium-103	pCi/L	-1.04E-01	1.43E+00		U
Ground Water	3/27/2018 9:36	Ruthenium-106	pCi/L	-3.39E+00	1.22E+01		U
Ground Water	3/27/2018 9:36	Selenium-75	pCi/L	5.74E-01	1.96E+00		U
Ground Water	3/27/2018 9:36	Silver-108m	pCi/L	-2.14E-01	1.22E+00		U
Ground Water	3/27/2018 9:36	Silver-110m	pCi/L	5.75E-01	1.96E+00		U
Ground Water	3/27/2018 9:36	Thorium-228	pCi/L	2.46E+00	3.03E+00		U
Ground Water	3/27/2018 9:36	Zinc-65	pCi/L	-7.35E-01	2.56E+00	3.00E+01	U
Ground Water	3/27/2018 9:36	Zirconium-95	pCi/L	1.16E+00	2.71E+00	1.50E+01	U
Ground Water	3/27/2018 9:36	Tritium	pCi/L	-2.54E+02	5.55E+02	2.00E+03	U
Ground Water	6/26/2018 12:56	Actinium-228	pCi/L	4.66E+00	6.10E+00		U
Ground Water	6/26/2018 12:56	Antimony-124	pCi/L	-1.26E+00	2.64E+00		U
Ground Water	6/26/2018 12:56	Antimony-125	pCi/L	2.72E-01	3.36E+00		U
Ground Water	6/26/2018 12:56	Barium-140	pCi/L	2.76E-01	4.97E+00	1.50E+01	U
Ground Water	6/26/2018 12:56	Beryllium-7	pCi/L	-9.21E-01	1.03E+01		U
Ground Water	6/26/2018 12:56	Cerium-141	pCi/L	-5.33E-01	2.08E+00		U
Ground Water	6/26/2018 12:56	Cerium-144	pCi/L	-1.82E+00	8.25E+00		U

Ground Water	6/26/2018 12:56	Cesium-134	pCi/L	6.84E-01	1.29E+00	1.50E+01	U
Ground Water	6/26/2018 12:56	Cesium-137	pCi/L	4.68E-01	1.29E+00	1.80E+01	U
Ground Water	6/26/2018 12:56	Chromium-51	pCi/L	-2.12E+00	1.07E+01		U
Ground Water	6/26/2018 12:56	Cobalt-57	pCi/L	7.07E-01	1.07E+00		U
Ground Water	6/26/2018 12:56	Cobalt-58	pCi/L	-6.72E-01	9.75E-01	1.50E+01	U
Ground Water	6/26/2018 12:56	Cobalt-60	pCi/L	4.96E-01	1.38E+00	1.50E+01	U
Ground Water	6/26/2018 12:56	Iodine-131	pCi/L	-8.92E-02	1.70E+00		U
Ground Water	6/26/2018 12:56	Iron-59	pCi/L	-4.47E-01	2.39E+00	3.00E+01	U
Ground Water	6/26/2018 12:56	Lanthanum-140	pCi/L	-1.92E-01	1.65E+00	1.50E+01	U
Ground Water	6/26/2018 12:56	Manganese-54	pCi/L	3.60E-01	1.14E+00	1.50E+01	U
Ground Water	6/26/2018 12:56	Niobium-95	pCi/L	-2.03E-01	1.30E+00	1.50E+01	U
Ground Water	6/26/2018 12:56	Potassium-40	pCi/L	2.16E+01	1.21E+01		UI
Ground Water	6/26/2018 12:56	Ruthenium-103	pCi/L	1.48E-01	1.19E+00		U
Ground Water	6/26/2018 12:56	Ruthenium-106	pCi/L	3.90E+00	1.17E+01		U
Ground Water	6/26/2018 12:56	Selenium-75	pCi/L	-4.41E-01	1.62E+00		U
Ground Water	6/26/2018 12:56	Silver-108m	pCi/L	-7.63E-01	1.04E+00		U
Ground Water	6/26/2018 12:56	Silver-110m	pCi/L	-4.90E-01	1.62E+00		U
Ground Water	6/26/2018 12:56	Thorium-228	pCi/L	2.63E-01	2.77E+00		U
Ground Water	6/26/2018 12:56	Zinc-65	pCi/L	8.37E-01	2.59E+00	3.00E+01	U
Ground Water	6/26/2018 12:56	Zirconium-95	pCi/L	3.26E-01	2.04E+00	1.50E+01	U
Ground Water	6/26/2018 12:56	Tritium	pCi/L	-2.08E+02	5.95E+02	2.00E+03	U
Ground Water	9/25/2018 10:57	Actinium-228	pCi/L	4.84E+00	6.63E+00		U
Ground Water	9/25/2018 10:57	Antimony-124	pCi/L	-1.20E+00	3.02E+00		U
Ground Water	9/25/2018 10:57	Antimony-125	pCi/L	-1.50E+00	3.25E+00		U
Ground Water	9/25/2018 10:57	Barium-140	pCi/L	-2.19E+00	6.91E+00	1.50E+01	U
Ground Water	9/25/2018 10:57	Beryllium-7	pCi/L	-4.74E+00	1.12E+01		U
Ground Water	9/25/2018 10:57	Cerium-141	pCi/L	-1.64E-01	2.52E+00		U
Ground Water	9/25/2018 10:57	Cerium-144	pCi/L	-4.07E+00	8.93E+00		U
Ground Water	9/25/2018 10:57	Cesium-134	pCi/L	6.09E-01	1.41E+00	1.50E+01	U
Ground Water	9/25/2018 10:57	Cesium-137	pCi/L	-1.66E-01	1.33E+00	1.80E+01	U
Ground Water	9/25/2018 10:57	Chromium-51	pCi/L	1.54E+00	1.34E+01		U
Ground Water	9/25/2018 10:57	Cobalt-57	pCi/L	-1.74E-01	1.18E+00		U
Ground Water	9/25/2018 10:57	Cobalt-58	pCi/L	5.28E-01	1.31E+00	1.50E+01	U
Ground Water	9/25/2018 10:57	Cobalt-60	pCi/L	3.29E-01	1.46E+00	1.50E+01	U
Ground Water	9/25/2018 10:57	Iodine-131	pCi/L	-5.29E-01	3.05E+00		U
Ground Water	9/25/2018 10:57	Iron-59	pCi/L	-1.20E+00	2.48E+00	3.00E+01	U
Ground Water	9/25/2018 10:57	Lanthanum-140	pCi/L	7.73E-02	2.79E+00	1.50E+01	U
Ground Water	9/25/2018 10:57	Manganese-54	pCi/L	2.93E-01	1.43E+00	1.50E+01	U
Ground Water	9/25/2018 10:57	Niobium-95	pCi/L	9.20E-01	1.54E+00	1.50E+01	U
Ground Water	9/25/2018 10:57	Potassium-40	pCi/L	1.51E+01	1.17E+01		UI
Ground Water	9/25/2018 10:57	Ruthenium-103	pCi/L	8.31E-02	1.41E+00		U
Ground Water	9/25/2018 10:57	Ruthenium-106	pCi/L	-2.37E+00	1.18E+01		U
Ground Water	9/25/2018 10:57	Selenium-75	pCi/L	1.18E+00	1.89E+00		U
Ground Water	9/25/2018 10:57	Silver-108m	pCi/L	3.02E-01	1.24E+00		U

Ground Water	9/25/2018 10:57	Silver-110m	pCi/L	-4.75E-01	1.58E+00		U
Ground Water	9/25/2018 10:57	Thorium-228	pCi/L	-8.97E-01	3.03E+00		U
Ground Water	9/25/2018 10:57	Zinc-65	pCi/L	1.43E+00	2.87E+00	3.00E+01	U
Ground Water	9/25/2018 10:57	Zirconium-95	pCi/L	-1.06E+00	2.37E+00	1.50E+01	U
Ground Water	9/25/2018 10:57	Tritium	pCi/L	1.03E+02	5.66E+02	2.00E+03	U
Ground Water	12/25/2018 11:12	Tritium	pCi/L	-1.14E+01	2.64E+02	2.00E+03	U
Ground Water	12/25/2018 11:12	Actinium-228	pCi/L	3.73E+00	4.59E+00		U
Ground Water	12/25/2018 11:12	Antimony-124	pCi/L	-7.97E-01	2.91E+00		U
Ground Water	12/25/2018 11:12	Antimony-125	pCi/L	3.56E-01	3.34E+00		U
Ground Water	12/25/2018 11:12	Barium-140	pCi/L	3.65E+00	7.62E+00	1.50E+01	U
Ground Water	12/25/2018 11:12	Beryllium-7	pCi/L	-1.73E+00	1.13E+01		U
Ground Water	12/25/2018 11:12	Cerium-141	pCi/L	-5.48E-01	2.37E+00		U
Ground Water	12/25/2018 11:12	Cerium-144	pCi/L	1.87E+00	8.55E+00		U
Ground Water	12/25/2018 11:12	Cesium-134	pCi/L	4.64E-01	1.43E+00	1.50E+01	U
Ground Water	12/25/2018 11:12	Cesium-137	pCi/L	4.60E-01	1.33E+00	1.80E+01	U
Ground Water	12/25/2018 11:12	Chromium-51	pCi/L	-1.02E+00	1.23E+01		U
Ground Water	12/25/2018 11:12	Cobalt-57	pCi/L	3.29E-01	1.11E+00		U
Ground Water	12/25/2018 11:12	Cobalt-58	pCi/L	-1.39E-01	1.23E+00	1.50E+01	U
Ground Water	12/25/2018 11:12	Cobalt-60	pCi/L	-1.76E-01	1.15E+00	1.50E+01	U
Ground Water	12/25/2018 11:12	Iodine-131	pCi/L	7.59E-02	2.97E+00		U
Ground Water	12/25/2018 11:12	Iron-59	pCi/L	-1.95E-01	2.92E+00	3.00E+01	U
Ground Water	12/25/2018 11:12	Lanthanum-140	pCi/L	-7.79E-01	2.50E+00	1.50E+01	U
Ground Water	12/25/2018 11:12	Manganese-54	pCi/L	-4.30E-01	1.22E+00	1.50E+01	U
Ground Water	12/25/2018 11:12	Niobium-95	pCi/L	2.94E-01	1.41E+00	1.50E+01	U
Ground Water	12/25/2018 11:12	Potassium-40	pCi/L	7.59E+00	1.09E+01		U
Ground Water	12/25/2018 11:12	Ruthenium-103	pCi/L	-1.01E+00	1.35E+00		U
Ground Water	12/25/2018 11:12	Ruthenium-106	pCi/L	4.36E+00	1.22E+01		U
Ground Water	12/25/2018 11:12	Selenium-75	pCi/L	-3.16E-01	1.75E+00		U
Ground Water	12/25/2018 11:12	Silver-108m	pCi/L	-1.85E-02	1.05E+00		U
Ground Water	12/25/2018 11:12	Silver-110m	pCi/L	-4.78E-01	1.66E+00		U
Ground Water	12/25/2018 11:12	Thorium-228	pCi/L	-1.95E+00	2.68E+00		U
Ground Water	12/25/2018 11:12	Zinc-65	pCi/L	-1.13E+00	2.55E+00	3.00E+01	U
Ground Water	12/25/2018 11:12	Zirconium-95	pCi/L	-5.51E-01	2.21E+00	1.50E+01	U

Notes:

1. LLDs are a-priori values.
2. MDCs are calculated a-posteriori values.
3. Gamma spectroscopy analysis results are calculated from a measurement using only one gamma energ
4. Air sample volumes are received in units of ft3. GEL converts the units and reports them as m3.

QUALIFIERS:

U Target isotope was analyzed for but not detected above the MDC or LLD.
UI Uncertain identification for gamma spectroscopy.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager
M Reported result is less than the LLD and greater than the MDC.
DL DL MDC > LLD.

Sample Data For: "GW-5"

Matrix	Collect Date	Parmname	Units	Result	MDC	LLD	Qualifier
Ground Water	3/27/2018 10:22	Actinium-228	pCi/L	8.12E+00	6.08E+00		
Ground Water	3/27/2018 10:22	Antimony-124	pCi/L	-2.66E+00	4.20E+00		U
Ground Water	3/27/2018 10:22	Antimony-125	pCi/L	-1.47E+00	4.33E+00		U
Ground Water	3/27/2018 10:22	Barium-140	pCi/L	2.73E-01	9.03E+00	1.50E+01	U
Ground Water	3/27/2018 10:22	Beryllium-7	pCi/L	-8.12E+00	1.41E+01		U
Ground Water	3/27/2018 10:22	Cerium-141	pCi/L	6.09E-01	2.98E+00		U
Ground Water	3/27/2018 10:22	Cerium-144	pCi/L	-9.87E-01	1.15E+01		U
Ground Water	3/27/2018 10:22	Cesium-134	pCi/L	2.33E-01	1.88E+00	1.50E+01	U
Ground Water	3/27/2018 10:22	Cesium-137	pCi/L	5.28E-01	1.80E+00	1.80E+01	U
Ground Water	3/27/2018 10:22	Chromium-51	pCi/L	5.10E+00	1.65E+01		U
Ground Water	3/27/2018 10:22	Cobalt-57	pCi/L	2.32E-01	1.52E+00		U
Ground Water	3/27/2018 10:22	Cobalt-58	pCi/L	6.48E-02	1.58E+00	1.50E+01	U
Ground Water	3/27/2018 10:22	Cobalt-60	pCi/L	-1.39E-01	1.91E+00	1.50E+01	U
Ground Water	3/27/2018 10:22	Iodine-131	pCi/L	4.66E-01	3.19E+00		U
Ground Water	3/27/2018 10:22	Iron-59	pCi/L	-4.63E-01	3.02E+00	3.00E+01	U
Ground Water	3/27/2018 10:22	Lanthanum-140	pCi/L	-7.81E-02	3.04E+00	1.50E+01	U
Ground Water	3/27/2018 10:22	Manganese-54	pCi/L	5.25E-01	1.76E+00	1.50E+01	U
Ground Water	3/27/2018 10:22	Niobium-95	pCi/L	2.73E-01	1.85E+00	1.50E+01	U
Ground Water	3/27/2018 10:22	Potassium-40	pCi/L	1.95E+01	1.91E+01		UI
Ground Water	3/27/2018 10:22	Ruthenium-103	pCi/L	-6.64E-01	1.73E+00		U
Ground Water	3/27/2018 10:22	Ruthenium-106	pCi/L	9.63E+00	1.62E+01		U
Ground Water	3/27/2018 10:22	Selenium-75	pCi/L	1.25E-01	2.29E+00		U
Ground Water	3/27/2018 10:22	Silver-108m	pCi/L	5.46E-01	1.63E+00		U
Ground Water	3/27/2018 10:22	Silver-110m	pCi/L	-1.55E-01	2.21E+00		U
Ground Water	3/27/2018 10:22	Thorium-228	pCi/L	1.21E-01	4.07E+00		U
Ground Water	3/27/2018 10:22	Zinc-65	pCi/L	5.69E-01	3.61E+00	3.00E+01	U
Ground Water	3/27/2018 10:22	Zirconium-95	pCi/L	-4.33E-01	3.14E+00	1.50E+01	U
Ground Water	3/27/2018 10:22	Tritium	pCi/L	-2.60E+02	5.67E+02	2.00E+03	U
Ground Water	6/26/2018 12:00	Actinium-228	pCi/L	-4.38E+00	5.52E+00		U
Ground Water	6/26/2018 12:00	Antimony-124	pCi/L	1.57E-01	2.99E+00		U
Ground Water	6/26/2018 12:00	Antimony-125	pCi/L	-5.38E-01	3.21E+00		U
Ground Water	6/26/2018 12:00	Barium-140	pCi/L	1.23E-01	4.59E+00	1.50E+01	U
Ground Water	6/26/2018 12:00	Beryllium-7	pCi/L	-5.43E+00	9.03E+00		U

Ground Water	6/26/2018 12:00	Cerium-141	pCi/L	-1.56E+00	1.99E+00		U
Ground Water	6/26/2018 12:00	Cerium-144	pCi/L	-1.72E+00	7.66E+00		U
Ground Water	6/26/2018 12:00	Cesium-134	pCi/L	-1.08E-02	1.27E+00	1.50E+01	U
Ground Water	6/26/2018 12:00	Cesium-137	pCi/L	-4.00E-01	1.25E+00	1.80E+01	U
Ground Water	6/26/2018 12:00	Chromium-51	pCi/L	4.54E+00	1.06E+01		U
Ground Water	6/26/2018 12:00	Cobalt-57	pCi/L	-1.32E-02	1.02E+00		U
Ground Water	6/26/2018 12:00	Cobalt-58	pCi/L	9.60E-02	1.11E+00	1.50E+01	U
Ground Water	6/26/2018 12:00	Cobalt-60	pCi/L	-2.86E-01	1.09E+00	1.50E+01	U
Ground Water	6/26/2018 12:00	Iodine-131	pCi/L	4.27E-01	1.58E+00		U
Ground Water	6/26/2018 12:00	Iron-59	pCi/L	5.93E-03	2.35E+00	3.00E+01	U
Ground Water	6/26/2018 12:00	Lanthanum-140	pCi/L	1.77E-01	1.66E+00	1.50E+01	U
Ground Water	6/26/2018 12:00	Manganese-54	pCi/L	8.53E-01	1.14E+00	1.50E+01	U
Ground Water	6/26/2018 12:00	Niobium-95	pCi/L	5.00E-01	1.10E+00	1.50E+01	U
Ground Water	6/26/2018 12:00	Potassium-40	pCi/L	1.72E+01	1.13E+01		UI
Ground Water	6/26/2018 12:00	Ruthenium-103	pCi/L	-1.61E-01	1.12E+00		U
Ground Water	6/26/2018 12:00	Ruthenium-106	pCi/L	5.53E+00	1.15E+01		U
Ground Water	6/26/2018 12:00	Selenium-75	pCi/L	-6.87E-01	1.48E+00		U
Ground Water	6/26/2018 12:00	Silver-108m	pCi/L	-4.52E-01	9.84E-01		U
Ground Water	6/26/2018 12:00	Silver-110m	pCi/L	1.15E-01	1.55E+00		U
Ground Water	6/26/2018 12:00	Thorium-228	pCi/L	-1.38E+00	2.72E+00		UI
Ground Water	6/26/2018 12:00	Zinc-65	pCi/L	-1.33E-01	2.66E+00	3.00E+01	U
Ground Water	6/26/2018 12:00	Zirconium-95	pCi/L	-3.47E-01	1.92E+00	1.50E+01	U
Ground Water	6/26/2018 12:00	Tritium	pCi/L	-3.88E+02	5.83E+02	2.00E+03	U
Ground Water	9/25/2018 9:55	Actinium-228	pCi/L	4.92E+00	8.29E+00		U
Ground Water	9/25/2018 9:55	Antimony-124	pCi/L	1.94E+00	4.36E+00		U
Ground Water	9/25/2018 9:55	Antimony-125	pCi/L	2.77E+00	4.93E+00		U
Ground Water	9/25/2018 9:55	Barium-140	pCi/L	8.19E-01	9.53E+00	1.50E+01	U
Ground Water	9/25/2018 9:55	Beryllium-7	pCi/L	5.52E+00	1.58E+01		U
Ground Water	9/25/2018 9:55	Cerium-141	pCi/L	7.91E-01	2.77E+00		U
Ground Water	9/25/2018 9:55	Cerium-144	pCi/L	-4.00E-01	1.00E+01		U
Ground Water	9/25/2018 9:55	Cesium-134	pCi/L	1.82E-01	1.92E+00	1.50E+01	U
Ground Water	9/25/2018 9:55	Cesium-137	pCi/L	-3.48E-01	1.74E+00	1.80E+01	U
Ground Water	9/25/2018 9:55	Chromium-51	pCi/L	8.54E+00	1.82E+01		U
Ground Water	9/25/2018 9:55	Cobalt-57	pCi/L	1.70E-01	1.33E+00		U
Ground Water	9/25/2018 9:55	Cobalt-58	pCi/L	5.50E-01	1.89E+00	1.50E+01	U
Ground Water	9/25/2018 9:55	Cobalt-60	pCi/L	-2.83E-01	1.81E+00	1.50E+01	U
Ground Water	9/25/2018 9:55	Iodine-131	pCi/L	1.81E+00	3.88E+00		U
Ground Water	9/25/2018 9:55	Iron-59	pCi/L	2.19E+00	4.08E+00	3.00E+01	U
Ground Water	9/25/2018 9:55	Lanthanum-140	pCi/L	1.26E+00	3.49E+00	1.50E+01	U
Ground Water	9/25/2018 9:55	Manganese-54	pCi/L	-1.22E+00	1.64E+00	1.50E+01	U
Ground Water	9/25/2018 9:55	Niobium-95	pCi/L	3.05E-01	1.99E+00	1.50E+01	U
Ground Water	9/25/2018 9:55	Potassium-40	pCi/L	-2.53E+01	2.61E+01		U
Ground Water	9/25/2018 9:55	Ruthenium-103	pCi/L	-2.87E-01	1.76E+00		U
Ground Water	9/25/2018 9:55	Ruthenium-106	pCi/L	1.44E+01	1.60E+01		U

Ground Water	9/25/2018 9:55	Selenium-75	pCi/L	1.87E-01	2.29E+00		U
Ground Water	9/25/2018 9:55	Silver-108m	pCi/L	-4.55E-01	1.58E+00		U
Ground Water	9/25/2018 9:55	Silver-110m	pCi/L	-3.39E-01	2.36E+00		U
Ground Water	9/25/2018 9:55	Thorium-228	pCi/L	1.18E+00	3.43E+00		U
Ground Water	9/25/2018 9:55	Zinc-65	pCi/L	1.20E+00	3.64E+00	3.00E+01	U
Ground Water	9/25/2018 9:55	Zirconium-95	pCi/L	1.39E+00	3.33E+00	1.50E+01	U
Ground Water	9/25/2018 9:55	Tritium	pCi/L	1.16E+02	5.64E+02	2.00E+03	U
Ground Water	12/25/2018 10:37	Tritium	pCi/L	-1.67E+02	2.77E+02	2.00E+03	U
Ground Water	12/25/2018 10:37	Actinium-228	pCi/L	-3.07E+00	6.82E+00		U
Ground Water	12/25/2018 10:37	Antimony-124	pCi/L	9.89E-01	3.26E+00		U
Ground Water	12/25/2018 10:37	Antimony-125	pCi/L	8.96E-02	3.65E+00		U
Ground Water	12/25/2018 10:37	Barium-140	pCi/L	-3.88E+00	8.68E+00	1.50E+01	U
Ground Water	12/25/2018 10:37	Beryllium-7	pCi/L	-4.06E-01	1.22E+01		U
Ground Water	12/25/2018 10:37	Cerium-141	pCi/L	-9.15E-01	2.73E+00		U
Ground Water	12/25/2018 10:37	Cerium-144	pCi/L	8.87E+00	9.64E+00		U
Ground Water	12/25/2018 10:37	Cesium-134	pCi/L	-7.06E-02	1.44E+00	1.50E+01	U
Ground Water	12/25/2018 10:37	Cesium-137	pCi/L	6.78E-01	1.49E+00	1.80E+01	U
Ground Water	12/25/2018 10:37	Chromium-51	pCi/L	2.83E+00	1.45E+01		U
Ground Water	12/25/2018 10:37	Cobalt-57	pCi/L	-5.85E-01	1.30E+00		U
Ground Water	12/25/2018 10:37	Cobalt-58	pCi/L	-3.71E-01	1.37E+00	1.50E+01	U
Ground Water	12/25/2018 10:37	Cobalt-60	pCi/L	8.02E-01	1.42E+00	1.50E+01	U
Ground Water	12/25/2018 10:37	Iodine-131	pCi/L	1.94E+00	3.58E+00		U
Ground Water	12/25/2018 10:37	Iron-59	pCi/L	7.81E-01	2.83E+00	3.00E+01	U
Ground Water	12/25/2018 10:37	Lanthanum-140	pCi/L	2.32E-01	2.64E+00	1.50E+01	U
Ground Water	12/25/2018 10:37	Manganese-54	pCi/L	-1.25E-01	1.31E+00	1.50E+01	U
Ground Water	12/25/2018 10:37	Niobium-95	pCi/L	-1.76E-02	1.53E+00	1.50E+01	U
Ground Water	12/25/2018 10:37	Potassium-40	pCi/L	-9.90E+00	2.28E+01		U
Ground Water	12/25/2018 10:37	Ruthenium-103	pCi/L	-8.98E-02	1.51E+00		U
Ground Water	12/25/2018 10:37	Ruthenium-106	pCi/L	2.12E+00	1.17E+01		U
Ground Water	12/25/2018 10:37	Selenium-75	pCi/L	-3.22E-01	2.01E+00		U
Ground Water	12/25/2018 10:37	Silver-108m	pCi/L	9.87E-02	1.15E+00		U
Ground Water	12/25/2018 10:37	Silver-110m	pCi/L	-7.06E-01	1.67E+00		U
Ground Water	12/25/2018 10:37	Thorium-228	pCi/L	-3.08E-01	3.25E+00		U
Ground Water	12/25/2018 10:37	Zinc-65	pCi/L	9.21E-01	2.69E+00	3.00E+01	U
Ground Water	12/25/2018 10:37	Zirconium-95	pCi/L	-1.30E+00	2.21E+00	1.50E+01	U

Notes:

1. LLDs are a-priori values.
2. MDCs are calculated a-posteriori values.
3. Gamma spectroscopy analysis results are calculated from a measurement using only one gamma energ

4. Air sample volumes are received in units of ft3. GEL converts the units and reports them as m3.

QUALIFIERS:

U Target isotope was analyzed for but not detected above the MDC or LLD.
UI Uncertain identification for gamma spectroscopy.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project manage
M Reported result is less than the LLD and greater than the MDC.
DL DL MDC > LLD.

Sample Data For: "SW-2"

Matrix	Collect Date	Parmname	Units	Result	MDC	LLD	Qualifier
Surface Drinking	1/15/2018 23:31	Actinium-228	pCi/L	-4.04E+00	5.33E+00		U
Surface Drinking	1/15/2018 23:31	Antimony-124	pCi/L	1.64E+00	3.55E+00		U
Surface Drinking	1/15/2018 23:31	Antimony-125	pCi/L	9.68E-01	3.58E+00		U
Surface Drinking	1/15/2018 23:31	Barium-140	pCi/L	-5.92E+00	1.31E+01	1.50E+01	U
Surface Drinking	1/15/2018 23:31	Beryllium-7	pCi/L	-3.33E+00	1.25E+01		U
Surface Drinking	1/15/2018 23:31	Cerium-141	pCi/L	-7.91E+00	3.27E+00		U
Surface Drinking	1/15/2018 23:31	Cerium-144	pCi/L	1.55E+00	9.24E+00		U
Surface Drinking	1/15/2018 23:31	Cesium-134	pCi/L	6.35E-01	1.35E+00	1.50E+01	U
Surface Drinking	1/15/2018 23:31	Cesium-137	pCi/L	7.21E-01	1.30E+00	1.80E+01	U
Surface Drinking	1/15/2018 23:31	Chromium-51	pCi/L	-6.20E+00	1.72E+01		U
Surface Drinking	1/15/2018 23:31	Cobalt-57	pCi/L	7.07E-02	1.25E+00		U
Surface Drinking	1/15/2018 23:31	Cobalt-58	pCi/L	-5.24E-01	1.33E+00	1.50E+01	U
Surface Drinking	1/15/2018 23:31	Cobalt-60	pCi/L	6.65E-01	1.23E+00	1.50E+01	U
Surface Drinking	1/15/2018 23:31	Iodine-131	pCi/L	-1.96E+00	8.30E+00		U
Surface Drinking	1/15/2018 23:31	Iron-59	pCi/L	-4.26E-01	2.91E+00	3.00E+01	U
Surface Drinking	1/15/2018 23:31	Lanthanum-140	pCi/L	-8.72E-01	4.63E+00	1.50E+01	U
Surface Drinking	1/15/2018 23:31	Manganese-54	pCi/L	-1.28E+00	1.16E+00	1.50E+01	U
Surface Drinking	1/15/2018 23:31	Niobium-95	pCi/L	-1.57E+00	1.51E+00	1.50E+01	U
Surface Drinking	1/15/2018 23:31	Potassium-40	pCi/L	9.42E+00	1.18E+01		U
Surface Drinking	1/15/2018 23:31	Ruthenium-103	pCi/L	2.84E-01	1.71E+00		U
Surface Drinking	1/15/2018 23:31	Ruthenium-106	pCi/L	-1.89E+00	1.12E+01		U
Surface Drinking	1/15/2018 23:31	Selenium-75	pCi/L	-3.02E-01	1.85E+00		U
Surface Drinking	1/15/2018 23:31	Silver-108m	pCi/L	-1.56E-02	1.08E+00		U
Surface Drinking	1/15/2018 23:31	Silver-110m	pCi/L	-2.43E+00	1.63E+00		U
Surface Drinking	1/15/2018 23:31	Thorium-228	pCi/L	1.49E+00	2.33E+00		U
Surface Drinking	1/15/2018 23:31	Zinc-65	pCi/L	-4.92E-02	2.79E+00	3.00E+01	U
Surface Drinking	1/15/2018 23:31	Zirconium-95	pCi/L	3.49E-01	2.42E+00	1.50E+01	U
Surface Drinking	1/15/2018 23:31	Iodine-131	pCi/L	6.72E-01	9.05E-01	1.00E+00	U
Surface Drinking	1/15/2018 23:31	BETA	pCi/L	5.38E+00	3.94E+00	4.00E+00	
Surface Drinking	2/14/2018 11:01	Actinium-228	pCi/L	-3.18E+00	5.66E+00		U
Surface Drinking	2/14/2018 11:01	Antimony-124	pCi/L	-8.21E-01	3.31E+00		U
Surface Drinking	2/14/2018 11:01	Antimony-125	pCi/L	7.30E-02	3.09E+00		U
Surface Drinking	2/14/2018 11:01	Barium-140	pCi/L	3.40E+00	1.19E+01	1.50E+01	U
Surface Drinking	2/14/2018 11:01	Beryllium-7	pCi/L	2.12E+00	1.31E+01		U
Surface Drinking	2/14/2018 11:01	Cerium-141	pCi/L	5.57E-01	2.66E+00		U
Surface Drinking	2/14/2018 11:01	Cerium-144	pCi/L	-2.71E+00	7.39E+00		U
Surface Drinking	2/14/2018 11:01	Cesium-134	pCi/L	1.48E-01	1.22E+00	1.50E+01	U
Surface Drinking	2/14/2018 11:01	Cesium-137	pCi/L	-7.89E-02	1.15E+00	1.80E+01	U
Surface Drinking	2/14/2018 11:01	Chromium-51	pCi/L	-7.45E+00	1.44E+01		U
Surface Drinking	2/14/2018 11:01	Cobalt-57	pCi/L	-5.54E-01	1.03E+00		U
Surface Drinking	2/14/2018 11:01	Cobalt-58	pCi/L	-4.56E-01	1.17E+00	1.50E+01	U

Surface Drinking	2/14/2018 11:01	Cobalt-60	pCi/L	-3.21E-02	1.12E+00	1.50E+01	U
Surface Drinking	2/14/2018 11:01	Iodine-131	pCi/L	-1.99E+00	5.88E+00		U
Surface Drinking	2/14/2018 11:01	Iron-59	pCi/L	-2.40E-01	2.85E+00	3.00E+01	U
Surface Drinking	2/14/2018 11:01	Lanthanum-140	pCi/L	1.19E+00	4.04E+00	1.50E+01	U
Surface Drinking	2/14/2018 11:01	Manganese-54	pCi/L	-3.88E-01	1.04E+00	1.50E+01	U
Surface Drinking	2/14/2018 11:01	Niobium-95	pCi/L	4.68E-01	1.44E+00	1.50E+01	U
Surface Drinking	2/14/2018 11:01	Potassium-40	pCi/L	2.30E+01	1.13E+01		UI
Surface Drinking	2/14/2018 11:01	Ruthenium-103	pCi/L	5.56E-01	1.41E+00		U
Surface Drinking	2/14/2018 11:01	Ruthenium-106	pCi/L	-2.21E+00	1.01E+01		U
Surface Drinking	2/14/2018 11:01	Selenium-75	pCi/L	8.20E-01	1.75E+00		U
Surface Drinking	2/14/2018 11:01	Silver-108m	pCi/L	3.00E-01	1.01E+00		U
Surface Drinking	2/14/2018 11:01	Silver-110m	pCi/L	2.06E-01	1.61E+00		U
Surface Drinking	2/14/2018 11:01	Thorium-228	pCi/L	1.93E+00	2.75E+00		U
Surface Drinking	2/14/2018 11:01	Zinc-65	pCi/L	-2.56E-01	2.55E+00	3.00E+01	U
Surface Drinking	2/14/2018 11:01	Zirconium-95	pCi/L	8.06E-01	2.44E+00	1.50E+01	U
Surface Drinking	2/14/2018 11:01	Iodine-131	pCi/L	-6.77E-02	9.19E-01	1.00E+00	U
Surface Drinking	2/14/2018 11:01	BETA	pCi/L	5.62E+00	4.11E+00	4.00E+00	DL
Surface Drinking	3/14/2018 10:01	Actinium-228	pCi/L	-2.47E+00	7.15E+00		U
Surface Drinking	3/14/2018 10:01	Antimony-124	pCi/L	-6.05E-01	4.53E+00		U
Surface Drinking	3/14/2018 10:01	Antimony-125	pCi/L	-1.27E-01	4.25E+00		U
Surface Drinking	3/14/2018 10:01	Barium-140	pCi/L	6.87E-01	1.67E+01	1.50E+01	DLU
Surface Drinking	3/14/2018 10:01	Beryllium-7	pCi/L	-2.66E+00	1.57E+01		U
Surface Drinking	3/14/2018 10:01	Cerium-141	pCi/L	3.79E+00	3.82E+00		U
Surface Drinking	3/14/2018 10:01	Cerium-144	pCi/L	1.12E+00	1.19E+01		U
Surface Drinking	3/14/2018 10:01	Cesium-134	pCi/L	7.32E-01	1.74E+00	1.50E+01	U
Surface Drinking	3/14/2018 10:01	Cesium-137	pCi/L	-7.08E-02	1.56E+00	1.80E+01	U
Surface Drinking	3/14/2018 10:01	Chromium-51	pCi/L	1.11E+00	2.18E+01		U
Surface Drinking	3/14/2018 10:01	Cobalt-57	pCi/L	4.71E-01	1.55E+00		U
Surface Drinking	3/14/2018 10:01	Cobalt-58	pCi/L	-3.47E-01	1.71E+00	1.50E+01	U
Surface Drinking	3/14/2018 10:01	Cobalt-60	pCi/L	1.56E-01	1.63E+00	1.50E+01	U
Surface Drinking	3/14/2018 10:01	Iodine-131	pCi/L	1.91E+00	9.36E+00		U
Surface Drinking	3/14/2018 10:01	Iron-59	pCi/L	6.65E-01	3.69E+00	3.00E+01	U
Surface Drinking	3/14/2018 10:01	Lanthanum-140	pCi/L	-1.83E+00	5.13E+00	1.50E+01	U
Surface Drinking	3/14/2018 10:01	Manganese-54	pCi/L	4.28E-01	1.57E+00	1.50E+01	U
Surface Drinking	3/14/2018 10:01	Niobium-95	pCi/L	8.65E-03	1.84E+00	1.50E+01	U
Surface Drinking	3/14/2018 10:01	Potassium-40	pCi/L	2.08E+00	1.47E+01		U
Surface Drinking	3/14/2018 10:01	Ruthenium-103	pCi/L	4.82E-01	1.95E+00		U
Surface Drinking	3/14/2018 10:01	Ruthenium-106	pCi/L	1.31E+00	1.48E+01		U
Surface Drinking	3/14/2018 10:01	Selenium-75	pCi/L	-1.35E+00	2.28E+00		U
Surface Drinking	3/14/2018 10:01	Silver-108m	pCi/L	-7.89E-03	1.37E+00		U
Surface Drinking	3/14/2018 10:01	Silver-110m	pCi/L	-2.80E-01	2.07E+00		U
Surface Drinking	3/14/2018 10:01	Thorium-228	pCi/L	3.12E+00	2.84E+00		UI
Surface Drinking	3/14/2018 10:01	Zinc-65	pCi/L	-6.71E-01	3.05E+00	3.00E+01	U
Surface Drinking	3/14/2018 10:01	Zirconium-95	pCi/L	5.48E-01	3.06E+00	1.50E+01	U

Surface Drinking	3/14/2018 10:01	Iodine-131	pCi/L	2.55E-01	9.22E-01	1.00E+00	U
Surface Drinking	3/14/2018 10:01	BETA	pCi/L	6.09E+00	2.65E+00	4.00E+00	
Surface Drinking	4/12/2018 22:22	Actinium-228	pCi/L	5.24E+00	5.84E+00		U
Surface Drinking	4/12/2018 22:22	Antimony-124	pCi/L	6.46E-01	2.90E+00		U
Surface Drinking	4/12/2018 22:22	Antimony-125	pCi/L	4.13E-01	3.45E+00		U
Surface Drinking	4/12/2018 22:22	Barium-140	pCi/L	-1.51E+00	1.15E+01	1.50E+01	U
Surface Drinking	4/12/2018 22:22	Beryllium-7	pCi/L	3.68E-01	1.24E+01		U
Surface Drinking	4/12/2018 22:22	Cerium-141	pCi/L	-2.12E+00	2.88E+00		U
Surface Drinking	4/12/2018 22:22	Cerium-144	pCi/L	-4.90E-01	8.74E+00		U
Surface Drinking	4/12/2018 22:22	Cesium-134	pCi/L	3.69E-01	1.37E+00	1.50E+01	U
Surface Drinking	4/12/2018 22:22	Cesium-137	pCi/L	3.61E-01	1.25E+00	1.80E+01	U
Surface Drinking	4/12/2018 22:22	Chromium-51	pCi/L	-5.97E-01	1.63E+01		U
Surface Drinking	4/12/2018 22:22	Cobalt-57	pCi/L	3.19E-01	1.16E+00		U
Surface Drinking	4/12/2018 22:22	Cobalt-58	pCi/L	9.87E-01	1.36E+00	1.50E+01	U
Surface Drinking	4/12/2018 22:22	Cobalt-60	pCi/L	1.41E-01	1.31E+00	1.50E+01	U
Surface Drinking	4/12/2018 22:22	Iodine-131	pCi/L	-1.16E+00	6.63E+00		U
Surface Drinking	4/12/2018 22:22	Iron-59	pCi/L	7.98E+00	3.23E+00	3.00E+01	UI
Surface Drinking	4/12/2018 22:22	Lanthanum-140	pCi/L	-9.78E-01	3.64E+00	1.50E+01	U
Surface Drinking	4/12/2018 22:22	Manganese-54	pCi/L	9.50E-02	1.26E+00	1.50E+01	U
Surface Drinking	4/12/2018 22:22	Niobium-95	pCi/L	-5.85E-01	1.41E+00	1.50E+01	U
Surface Drinking	4/12/2018 22:22	Potassium-40	pCi/L	2.00E+01	1.15E+01		
Surface Drinking	4/12/2018 22:22	Ruthenium-103	pCi/L	1.51E-01	1.55E+00		U
Surface Drinking	4/12/2018 22:22	Ruthenium-106	pCi/L	4.15E+00	1.13E+01		U
Surface Drinking	4/12/2018 22:22	Selenium-75	pCi/L	-4.19E-01	1.80E+00		U
Surface Drinking	4/12/2018 22:22	Silver-108m	pCi/L	-3.52E-01	1.03E+00		U
Surface Drinking	4/12/2018 22:22	Silver-110m	pCi/L	-2.70E-01	1.58E+00		U
Surface Drinking	4/12/2018 22:22	Thorium-228	pCi/L	1.59E+00	2.99E+00		U
Surface Drinking	4/12/2018 22:22	Zinc-65	pCi/L	7.73E-01	2.72E+00	3.00E+01	U
Surface Drinking	4/12/2018 22:22	Zirconium-95	pCi/L	-2.70E-01	2.42E+00	1.50E+01	U
Surface Drinking	4/12/2018 22:22	Iodine-131	pCi/L	3.15E-01	9.69E-01	1.00E+00	U
Surface Drinking	4/12/2018 22:22	BETA	pCi/L	6.17E+00	2.04E+00	4.00E+00	
Surface Drinking	2/12/2018 22:01	Tritium	pCi/L	1.94E+02	4.48E+02	2.00E+03	U
Surface Drinking	5/15/2018 10:50	Actinium-228	pCi/L	-3.12E+00	6.88E+00		U
Surface Drinking	5/15/2018 10:50	Antimony-124	pCi/L	2.60E+00	5.19E+00		U
Surface Drinking	5/15/2018 10:50	Antimony-125	pCi/L	-9.99E-01	3.60E+00		U
Surface Drinking	5/15/2018 10:50	Barium-140	pCi/L	-6.77E-01	1.89E+01	1.50E+01	DLU
Surface Drinking	5/15/2018 10:50	Beryllium-7	pCi/L	-2.33E+00	1.52E+01		U
Surface Drinking	5/15/2018 10:50	Cerium-141	pCi/L	-5.80E+00	3.20E+00		U
Surface Drinking	5/15/2018 10:50	Cerium-144	pCi/L	6.23E+00	8.69E+00		U
Surface Drinking	5/15/2018 10:50	Cesium-134	pCi/L	-4.38E-01	1.51E+00	1.50E+01	U
Surface Drinking	5/15/2018 10:50	Cesium-137	pCi/L	-2.82E-01	1.31E+00	1.80E+01	U
Surface Drinking	5/15/2018 10:50	Chromium-51	pCi/L	1.80E+00	1.93E+01		U
Surface Drinking	5/15/2018 10:50	Cobalt-57	pCi/L	-3.99E-01	1.14E+00		U
Surface Drinking	5/15/2018 10:50	Cobalt-58	pCi/L	-1.20E+00	1.65E+00	1.50E+01	U

Surface Drinking	5/15/2018 10:50	Cobalt-60	pCi/L	3.56E-01	1.70E+00	1.50E+01	U
Surface Drinking	5/15/2018 10:50	Iodine-131	pCi/L	5.39E+00	1.18E+01		U
Surface Drinking	5/15/2018 10:50	Iron-59	pCi/L	-1.59E+00	3.88E+00	3.00E+01	U
Surface Drinking	5/15/2018 10:50	Lanthanum-140	pCi/L	-1.50E+00	5.85E+00	1.50E+01	U
Surface Drinking	5/15/2018 10:50	Manganese-54	pCi/L	4.68E-01	1.52E+00	1.50E+01	U
Surface Drinking	5/15/2018 10:50	Niobium-95	pCi/L	6.88E-01	1.91E+00	1.50E+01	U
Surface Drinking	5/15/2018 10:50	Potassium-40	pCi/L	-1.37E+01	2.37E+01		U
Surface Drinking	5/15/2018 10:50	Ruthenium-103	pCi/L	-1.37E-02	1.94E+00		U
Surface Drinking	5/15/2018 10:50	Ruthenium-106	pCi/L	-2.96E-01	1.29E+01		U
Surface Drinking	5/15/2018 10:50	Selenium-75	pCi/L	-1.41E-01	1.99E+00		U
Surface Drinking	5/15/2018 10:50	Silver-108m	pCi/L	-3.77E-01	1.19E+00		U
Surface Drinking	5/15/2018 10:50	Silver-110m	pCi/L	6.17E-01	2.08E+00		U
Surface Drinking	5/15/2018 10:50	Thorium-228	pCi/L	2.06E+00	2.32E+00		U
Surface Drinking	5/15/2018 10:50	Zinc-65	pCi/L	5.62E-01	3.26E+00	3.00E+01	U
Surface Drinking	5/15/2018 10:50	Zirconium-95	pCi/L	6.85E-01	3.30E+00	1.50E+01	U
Surface Drinking	5/15/2018 10:50	Iodine-131	pCi/L	-2.51E-02	7.35E-01	1.00E+00	U
Surface Drinking	5/15/2018 10:50	BETA	pCi/L	5.63E+00	3.83E+00	4.00E+00	
Surface Drinking	6/13/2018 23:43	Actinium-228	pCi/L	4.71E-01	6.99E+00		U
Surface Drinking	6/13/2018 23:43	Antimony-124	pCi/L	-1.60E-01	3.85E+00		U
Surface Drinking	6/13/2018 23:43	Antimony-125	pCi/L	1.31E+00	3.89E+00		U
Surface Drinking	6/13/2018 23:43	Barium-140	pCi/L	2.61E+00	1.11E+01	1.50E+01	U
Surface Drinking	6/13/2018 23:43	Beryllium-7	pCi/L	1.06E+00	1.35E+01		U
Surface Drinking	6/13/2018 23:43	Cerium-141	pCi/L	-4.81E-01	2.73E+00		U
Surface Drinking	6/13/2018 23:43	Cerium-144	pCi/L	3.58E+00	8.63E+00		U
Surface Drinking	6/13/2018 23:43	Cesium-134	pCi/L	1.84E-01	1.64E+00	1.50E+01	U
Surface Drinking	6/13/2018 23:43	Cesium-137	pCi/L	7.76E-01	1.53E+00	1.80E+01	U
Surface Drinking	6/13/2018 23:43	Chromium-51	pCi/L	-8.23E-01	1.71E+01		U
Surface Drinking	6/13/2018 23:43	Cobalt-57	pCi/L	-4.54E-01	1.12E+00		U
Surface Drinking	6/13/2018 23:43	Cobalt-58	pCi/L	3.45E-01	1.61E+00	1.50E+01	U
Surface Drinking	6/13/2018 23:43	Cobalt-60	pCi/L	-7.75E-02	1.59E+00	1.50E+01	U
Surface Drinking	6/13/2018 23:43	Iodine-131	pCi/L	1.11E+00	5.54E+00		U
Surface Drinking	6/13/2018 23:43	Iron-59	pCi/L	4.64E-01	3.49E+00	3.00E+01	U
Surface Drinking	6/13/2018 23:43	Lanthanum-140	pCi/L	5.91E-01	4.14E+00	1.50E+01	U
Surface Drinking	6/13/2018 23:43	Manganese-54	pCi/L	-3.41E-01	1.38E+00	1.50E+01	U
Surface Drinking	6/13/2018 23:43	Niobium-95	pCi/L	-5.11E-01	1.56E+00	1.50E+01	U
Surface Drinking	6/13/2018 23:43	Potassium-40	pCi/L	-1.23E+01	2.32E+01		U
Surface Drinking	6/13/2018 23:43	Ruthenium-103	pCi/L	3.74E-01	1.65E+00		U
Surface Drinking	6/13/2018 23:43	Ruthenium-106	pCi/L	8.73E+00	1.36E+01		U
Surface Drinking	6/13/2018 23:43	Selenium-75	pCi/L	-4.11E-01	1.83E+00		U
Surface Drinking	6/13/2018 23:43	Silver-108m	pCi/L	3.24E-01	1.28E+00		U
Surface Drinking	6/13/2018 23:43	Silver-110m	pCi/L	-1.12E-01	2.06E+00		U
Surface Drinking	6/13/2018 23:43	Thorium-228	pCi/L	-2.90E+00	2.97E+00		U
Surface Drinking	6/13/2018 23:43	Zinc-65	pCi/L	2.86E-01	3.20E+00	3.00E+01	U
Surface Drinking	6/13/2018 23:43	Zirconium-95	pCi/L	-4.02E-01	2.74E+00	1.50E+01	U

Surface Drinking	6/13/2018 23:43	Iodine-131	pCi/L	-3.79E-01	9.49E-01	1.00E+00	U
Surface Drinking	6/13/2018 23:43	BETA	pCi/L	8.99E+00	4.15E+00	4.00E+00	DL
Surface Drinking	7/16/2018 10:16	Actinium-228	pCi/L	-4.95E+00	6.10E+00		U
Surface Drinking	7/16/2018 10:16	Antimony-124	pCi/L	-4.01E-01	3.19E+00		U
Surface Drinking	7/16/2018 10:16	Antimony-125	pCi/L	-2.00E-01	3.63E+00		U
Surface Drinking	7/16/2018 10:16	Barium-140	pCi/L	1.49E+00	1.22E+01	1.50E+01	U
Surface Drinking	7/16/2018 10:16	Beryllium-7	pCi/L	9.58E-01	1.34E+01		U
Surface Drinking	7/16/2018 10:16	Cerium-141	pCi/L	-8.22E-02	3.47E+00		U
Surface Drinking	7/16/2018 10:16	Cerium-144	pCi/L	-2.73E+00	9.69E+00		U
Surface Drinking	7/16/2018 10:16	Cesium-134	pCi/L	7.88E-01	1.45E+00	1.50E+01	U
Surface Drinking	7/16/2018 10:16	Cesium-137	pCi/L	1.90E-01	1.33E+00	1.80E+01	U
Surface Drinking	7/16/2018 10:16	Chromium-51	pCi/L	-5.92E+00	1.63E+01		U
Surface Drinking	7/16/2018 10:16	Cobalt-57	pCi/L	-1.75E-01	1.34E+00		U
Surface Drinking	7/16/2018 10:16	Cobalt-58	pCi/L	-1.86E-03	1.47E+00	1.50E+01	U
Surface Drinking	7/16/2018 10:16	Cobalt-60	pCi/L	-1.00E-01	1.37E+00	1.50E+01	U
Surface Drinking	7/16/2018 10:16	Iodine-131	pCi/L	-2.08E+00	6.42E+00		U
Surface Drinking	7/16/2018 10:16	Iron-59	pCi/L	-8.38E-01	3.17E+00	3.00E+01	U
Surface Drinking	7/16/2018 10:16	Lanthanum-140	pCi/L	-6.86E-02	4.11E+00	1.50E+01	U
Surface Drinking	7/16/2018 10:16	Manganese-54	pCi/L	-6.14E-01	1.25E+00	1.50E+01	U
Surface Drinking	7/16/2018 10:16	Niobium-95	pCi/L	2.31E-01	1.64E+00	1.50E+01	U
Surface Drinking	7/16/2018 10:16	Potassium-40	pCi/L	1.34E+00	1.22E+01		U
Surface Drinking	7/16/2018 10:16	Ruthenium-103	pCi/L	3.56E-01	1.73E+00		U
Surface Drinking	7/16/2018 10:16	Ruthenium-106	pCi/L	2.75E+00	1.17E+01		U
Surface Drinking	7/16/2018 10:16	Selenium-75	pCi/L	-5.25E-01	1.95E+00		U
Surface Drinking	7/16/2018 10:16	Silver-108m	pCi/L	1.83E-01	1.20E+00		U
Surface Drinking	7/16/2018 10:16	Silver-110m	pCi/L	1.08E+00	1.87E+00		U
Surface Drinking	7/16/2018 10:16	Thorium-228	pCi/L	-1.12E+00	3.00E+00		U
Surface Drinking	7/16/2018 10:16	Zinc-65	pCi/L	1.52E+00	3.01E+00	3.00E+01	U
Surface Drinking	7/16/2018 10:16	Zirconium-95	pCi/L	8.35E-01	2.62E+00	1.50E+01	U
Surface Drinking	7/16/2018 10:16	Iodine-131	pCi/L	-1.47E-01	7.30E-01	1.00E+00	U
Surface Drinking	7/16/2018 10:16	BETA	pCi/L	5.05E+00	2.57E+00	4.00E+00	
Surface Drinking	5/14/2018 11:43	Tritium	pCi/L	-1.60E+02	5.95E+02	2.00E+03	U
Surface Drinking	8/14/2018 23:05	Actinium-228	pCi/L	2.35E+00	6.07E+00		U
Surface Drinking	8/14/2018 23:05	Antimony-124	pCi/L	7.85E-01	3.44E+00		U
Surface Drinking	8/14/2018 23:05	Antimony-125	pCi/L	2.89E-02	3.39E+00		U
Surface Drinking	8/14/2018 23:05	Barium-140	pCi/L	5.68E+00	1.46E+01	1.50E+01	U
Surface Drinking	8/14/2018 23:05	Beryllium-7	pCi/L	6.02E+01	1.29E+01		
Surface Drinking	8/14/2018 23:05	Cerium-141	pCi/L	-1.35E+01	2.97E+00		U
Surface Drinking	8/14/2018 23:05	Cerium-144	pCi/L	-2.94E+00	8.35E+00		U
Surface Drinking	8/14/2018 23:05	Cesium-134	pCi/L	5.84E-01	1.53E+00	1.50E+01	U
Surface Drinking	8/14/2018 23:05	Cesium-137	pCi/L	-3.06E-01	1.31E+00	1.80E+01	U
Surface Drinking	8/14/2018 23:05	Chromium-51	pCi/L	5.81E+00	1.82E+01		U
Surface Drinking	8/14/2018 23:05	Cobalt-57	pCi/L	-3.18E-01	1.08E+00		U
Surface Drinking	8/14/2018 23:05	Cobalt-58	pCi/L	4.77E-01	1.55E+00	1.50E+01	U

Surface Drinking	8/14/2018 23:05	Cobalt-60	pCi/L	7.21E-01	1.51E+00	1.50E+01	U
Surface Drinking	8/14/2018 23:05	Iodine-131	pCi/L	-2.28E+00	8.00E+00		U
Surface Drinking	8/14/2018 23:05	Iron-59	pCi/L	7.65E-01	3.50E+00	3.00E+01	U
Surface Drinking	8/14/2018 23:05	Lanthanum-140	pCi/L	-3.64E-01	4.03E+00	1.50E+01	U
Surface Drinking	8/14/2018 23:05	Manganese-54	pCi/L	-3.48E-01	1.20E+00	1.50E+01	U
Surface Drinking	8/14/2018 23:05	Niobium-95	pCi/L	1.40E+00	1.45E+00	1.50E+01	U
Surface Drinking	8/14/2018 23:05	Potassium-40	pCi/L	8.08E+02	1.24E+01		
Surface Drinking	8/14/2018 23:05	Ruthenium-103	pCi/L	-5.65E-01	1.64E+00		U
Surface Drinking	8/14/2018 23:05	Ruthenium-106	pCi/L	-2.64E+00	1.16E+01		U
Surface Drinking	8/14/2018 23:05	Selenium-75	pCi/L	1.66E-01	1.90E+00		U
Surface Drinking	8/14/2018 23:05	Silver-108m	pCi/L	5.18E-01	1.17E+00		U
Surface Drinking	8/14/2018 23:05	Silver-110m	pCi/L	2.24E-01	1.81E+00		U
Surface Drinking	8/14/2018 23:05	Thorium-228	pCi/L	6.41E-01	3.04E+00		U
Surface Drinking	8/14/2018 23:05	Zinc-65	pCi/L	-2.81E-01	3.22E+00	3.00E+01	U
Surface Drinking	8/14/2018 23:05	Zirconium-95	pCi/L	-1.49E+00	2.61E+00	1.50E+01	U
Surface Drinking	8/14/2018 23:05	Iodine-131	pCi/L	3.30E-01	8.91E-01	1.00E+00	U
Surface Drinking	8/14/2018 23:05	BETA	pCi/L	6.28E+00	3.25E+00	4.00E+00	
Surface Drinking	9/13/2018 10:43	Actinium-228	pCi/L	3.83E+00	5.47E+00		U
Surface Drinking	9/13/2018 10:43	Antimony-124	pCi/L	-5.36E-02	3.15E+00		U
Surface Drinking	9/13/2018 10:43	Antimony-125	pCi/L	2.69E-01	2.99E+00		U
Surface Drinking	9/13/2018 10:43	Barium-140	pCi/L	-4.94E+00	1.02E+01	1.50E+01	U
Surface Drinking	9/13/2018 10:43	Beryllium-7	pCi/L	-1.12E+01	1.13E+01		U
Surface Drinking	9/13/2018 10:43	Cerium-141	pCi/L	-1.18E+00	2.65E+00		U
Surface Drinking	9/13/2018 10:43	Cerium-144	pCi/L	-3.49E-01	7.67E+00		U
Surface Drinking	9/13/2018 10:43	Cesium-134	pCi/L	3.92E-01	1.23E+00	1.50E+01	U
Surface Drinking	9/13/2018 10:43	Cesium-137	pCi/L	-2.75E-01	1.10E+00	1.80E+01	U
Surface Drinking	9/13/2018 10:43	Chromium-51	pCi/L	-3.15E+00	1.40E+01		U
Surface Drinking	9/13/2018 10:43	Cobalt-57	pCi/L	-1.55E-01	9.76E-01		U
Surface Drinking	9/13/2018 10:43	Cobalt-58	pCi/L	-4.26E-01	1.14E+00	1.50E+01	U
Surface Drinking	9/13/2018 10:43	Cobalt-60	pCi/L	-9.82E-01	1.26E+00	1.50E+01	U
Surface Drinking	9/13/2018 10:43	Iodine-131	pCi/L	2.00E+00	5.87E+00		U
Surface Drinking	9/13/2018 10:43	Iron-59	pCi/L	1.40E+00	2.78E+00	3.00E+01	U
Surface Drinking	9/13/2018 10:43	Lanthanum-140	pCi/L	-3.61E-01	3.58E+00	1.50E+01	U
Surface Drinking	9/13/2018 10:43	Manganese-54	pCi/L	1.26E-01	1.11E+00	1.50E+01	U
Surface Drinking	9/13/2018 10:43	Niobium-95	pCi/L	2.21E+00	1.18E+00	1.50E+01	UI
Surface Drinking	9/13/2018 10:43	Potassium-40	pCi/L	2.26E+01	1.17E+01		
Surface Drinking	9/13/2018 10:43	Ruthenium-103	pCi/L	-8.32E-01	1.44E+00		U
Surface Drinking	9/13/2018 10:43	Ruthenium-106	pCi/L	-7.21E-01	9.87E+00		U
Surface Drinking	9/13/2018 10:43	Selenium-75	pCi/L	7.22E-02	1.63E+00		U
Surface Drinking	9/13/2018 10:43	Silver-108m	pCi/L	5.20E-02	9.90E-01		U
Surface Drinking	9/13/2018 10:43	Silver-110m	pCi/L	4.05E-01	1.51E+00		U
Surface Drinking	9/13/2018 10:43	Thorium-228	pCi/L	4.78E-01	2.59E+00		U
Surface Drinking	9/13/2018 10:43	Zinc-65	pCi/L	-1.04E-01	2.47E+00	3.00E+01	U
Surface Drinking	9/13/2018 10:43	Zirconium-95	pCi/L	-1.62E-01	2.16E+00	1.50E+01	U

Surface Drinking	9/13/2018 10:43	Iodine-131	pCi/L	6.40E-01	7.73E-01	1.00E+00	U
Surface Drinking	9/13/2018 10:43	BETA	pCi/L	7.31E+00	3.73E+00	4.00E+00	
Surface Drinking	10/15/2018 23:03	Actinium-228	pCi/L	1.24E+01	5.38E+00		
Surface Drinking	10/15/2018 23:03	Antimony-124	pCi/L	-6.31E-01	4.20E+00		U
Surface Drinking	10/15/2018 23:03	Antimony-125	pCi/L	7.84E-01	3.74E+00		U
Surface Drinking	10/15/2018 23:03	Barium-140	pCi/L	4.07E+00	1.69E+01	1.50E+01	DLU
Surface Drinking	10/15/2018 23:03	Beryllium-7	pCi/L	2.63E+00	1.57E+01		U
Surface Drinking	10/15/2018 23:03	Cerium-141	pCi/L	-5.41E+00	3.15E+00		U
Surface Drinking	10/15/2018 23:03	Cerium-144	pCi/L	-9.24E-01	8.85E+00		U
Surface Drinking	10/15/2018 23:03	Cesium-134	pCi/L	2.19E-01	1.63E+00	1.50E+01	U
Surface Drinking	10/15/2018 23:03	Cesium-137	pCi/L	-3.79E-01	1.55E+00	1.80E+01	U
Surface Drinking	10/15/2018 23:03	Chromium-51	pCi/L	-1.89E+00	1.88E+01		U
Surface Drinking	10/15/2018 23:03	Cobalt-57	pCi/L	3.33E-01	1.17E+00		U
Surface Drinking	10/15/2018 23:03	Cobalt-58	pCi/L	1.82E-01	1.66E+00	1.50E+01	U
Surface Drinking	10/15/2018 23:03	Cobalt-60	pCi/L	2.52E-01	1.57E+00	1.50E+01	U
Surface Drinking	10/15/2018 23:03	Iodine-131	pCi/L	-4.97E+00	9.20E+00		U
Surface Drinking	10/15/2018 23:03	Iron-59	pCi/L	2.23E+00	4.33E+00	3.00E+01	U
Surface Drinking	10/15/2018 23:03	Lanthanum-140	pCi/L	-2.05E+00	5.01E+00	1.50E+01	U
Surface Drinking	10/15/2018 23:03	Manganese-54	pCi/L	-2.62E-01	1.45E+00	1.50E+01	U
Surface Drinking	10/15/2018 23:03	Niobium-95	pCi/L	-5.08E-01	1.74E+00	1.50E+01	U
Surface Drinking	10/15/2018 23:03	Potassium-40	pCi/L	5.12E+01	1.56E+01		
Surface Drinking	10/15/2018 23:03	Ruthenium-103	pCi/L	-1.49E+00	1.88E+00		U
Surface Drinking	10/15/2018 23:03	Ruthenium-106	pCi/L	-2.78E+00	1.32E+01		U
Surface Drinking	10/15/2018 23:03	Selenium-75	pCi/L	-4.29E-01	1.99E+00		U
Surface Drinking	10/15/2018 23:03	Silver-108m	pCi/L	5.79E-01	1.26E+00		U
Surface Drinking	10/15/2018 23:03	Silver-110m	pCi/L	-1.41E+00	2.06E+00		U
Surface Drinking	10/15/2018 23:03	Thorium-228	pCi/L	-4.67E-02	2.86E+00		U
Surface Drinking	10/15/2018 23:03	Zinc-65	pCi/L	-1.07E+00	3.09E+00	3.00E+01	U
Surface Drinking	10/15/2018 23:03	Zirconium-95	pCi/L	7.06E-01	3.29E+00	1.50E+01	U
Surface Drinking	10/15/2018 23:03	Iodine-131	pCi/L	-6.08E-02	7.16E-01	1.00E+00	U
Surface Drinking	10/15/2018 23:03	BETA	pCi/L	7.92E+00	3.60E+00	4.00E+00	
Surface Drinking	8/13/2018 10:43	Tritium	pCi/L	1.63E+02	4.94E+02	2.00E+03	U
Surface Drinking	11/14/2018 11:41	Actinium-228	pCi/L	-7.07E+00	6.43E+00		U
Surface Drinking	11/14/2018 11:41	Antimony-124	pCi/L	1.37E+00	4.27E+00		U
Surface Drinking	11/14/2018 11:41	Antimony-125	pCi/L	-6.85E-01	3.94E+00		U
Surface Drinking	11/14/2018 11:41	Barium-140	pCi/L	-4.84E-01	1.48E+01	1.50E+01	U
Surface Drinking	11/14/2018 11:41	Beryllium-7	pCi/L	1.30E+01	1.52E+01		U
Surface Drinking	11/14/2018 11:41	Cerium-141	pCi/L	3.61E-01	3.39E+00		U
Surface Drinking	11/14/2018 11:41	Cerium-144	pCi/L	4.16E+00	1.03E+01		U
Surface Drinking	11/14/2018 11:41	Cesium-134	pCi/L	-1.40E-01	1.56E+00	1.50E+01	U
Surface Drinking	11/14/2018 11:41	Cesium-137	pCi/L	5.39E-01	1.57E+00	1.80E+01	U
Surface Drinking	11/14/2018 11:41	Chromium-51	pCi/L	4.63E+00	1.82E+01		U
Surface Drinking	11/14/2018 11:41	Cobalt-57	pCi/L	8.48E-01	1.41E+00		U
Surface Drinking	11/14/2018 11:41	Cobalt-58	pCi/L	-1.38E-01	1.54E+00	1.50E+01	U

Surface Drinking	11/14/2018 11:41	Cobalt-60	pCi/L	9.99E-02	1.45E+00	1.50E+01	U
Surface Drinking	11/14/2018 11:41	Iodine-131	pCi/L	-1.03E+00	7.61E+00		U
Surface Drinking	11/14/2018 11:41	Iron-59	pCi/L	-2.53E-01	3.42E+00	3.00E+01	U
Surface Drinking	11/14/2018 11:41	Lanthanum-140	pCi/L	-1.19E+00	4.98E+00	1.50E+01	U
Surface Drinking	11/14/2018 11:41	Manganese-54	pCi/L	-6.20E-01	1.37E+00	1.50E+01	U
Surface Drinking	11/14/2018 11:41	Niobium-95	pCi/L	1.78E-02	1.65E+00	1.50E+01	U
Surface Drinking	11/14/2018 11:41	Potassium-40	pCi/L	2.16E+00	2.07E+01		U
Surface Drinking	11/14/2018 11:41	Ruthenium-103	pCi/L	-1.74E+00	1.85E+00		U
Surface Drinking	11/14/2018 11:41	Ruthenium-106	pCi/L	-6.63E+00	1.27E+01		U
Surface Drinking	11/14/2018 11:41	Selenium-75	pCi/L	-8.78E-01	1.94E+00		U
Surface Drinking	11/14/2018 11:41	Silver-108m	pCi/L	-2.83E-01	1.28E+00		U
Surface Drinking	11/14/2018 11:41	Silver-110m	pCi/L	4.38E-01	2.06E+00		U
Surface Drinking	11/14/2018 11:41	Thorium-228	pCi/L	3.62E-01	2.94E+00		U
Surface Drinking	11/14/2018 11:41	Zinc-65	pCi/L	8.89E-01	3.23E+00	3.00E+01	U
Surface Drinking	11/14/2018 11:41	Zirconium-95	pCi/L	-7.67E-02	3.00E+00	1.50E+01	U
Surface Drinking	11/14/2018 11:41	Iodine-131	pCi/L	-1.20E-01	8.34E-01	1.00E+00	U
Surface Drinking	11/14/2018 11:41	BETA	pCi/L	4.98E+00	5.94E+00	4.00E+00	DL
Surface Drinking	12/13/2018 10:47	Actinium-228	pCi/L	-9.92E-01	7.30E+00		U
Surface Drinking	12/13/2018 10:47	Antimony-124	pCi/L	1.22E+00	4.75E+00		U
Surface Drinking	12/13/2018 10:47	Antimony-125	pCi/L	-1.19E+00	3.84E+00		U
Surface Drinking	12/13/2018 10:47	Barium-140	pCi/L	-2.26E+00	1.56E+01	1.50E+01	DLU
Surface Drinking	12/13/2018 10:47	Beryllium-7	pCi/L	-1.43E+00	1.42E+01		U
Surface Drinking	12/13/2018 10:47	Cerium-141	pCi/L	-4.09E+00	3.60E+00		U
Surface Drinking	12/13/2018 10:47	Cerium-144	pCi/L	-1.55E+00	1.03E+01		U
Surface Drinking	12/13/2018 10:47	Cesium-134	pCi/L	7.33E-01	1.74E+00	1.50E+01	U
Surface Drinking	12/13/2018 10:47	Cesium-137	pCi/L	9.74E-01	1.47E+00	1.80E+01	U
Surface Drinking	12/13/2018 10:47	Chromium-51	pCi/L	-2.32E+00	2.04E+01		U
Surface Drinking	12/13/2018 10:47	Cobalt-57	pCi/L	-1.96E-01	1.32E+00		U
Surface Drinking	12/13/2018 10:47	Cobalt-58	pCi/L	3.60E-01	1.67E+00	1.50E+01	U
Surface Drinking	12/13/2018 10:47	Cobalt-60	pCi/L	1.59E+00	1.83E+00	1.50E+01	U
Surface Drinking	12/13/2018 10:47	Iodine-131	pCi/L	-2.32E+00	9.28E+00		U
Surface Drinking	12/13/2018 10:47	Iron-59	pCi/L	1.13E+00	3.99E+00	3.00E+01	U
Surface Drinking	12/13/2018 10:47	Lanthanum-140	pCi/L	4.98E+00	6.45E+00	1.50E+01	U
Surface Drinking	12/13/2018 10:47	Manganese-54	pCi/L	-1.70E-01	1.38E+00	1.50E+01	U
Surface Drinking	12/13/2018 10:47	Niobium-95	pCi/L	-2.30E-02	1.75E+00	1.50E+01	U
Surface Drinking	12/13/2018 10:47	Potassium-40	pCi/L	7.58E+00	1.41E+01		U
Surface Drinking	12/13/2018 10:47	Ruthenium-103	pCi/L	1.42E-01	2.05E+00		U
Surface Drinking	12/13/2018 10:47	Ruthenium-106	pCi/L	-8.75E-02	1.31E+01		U
Surface Drinking	12/13/2018 10:47	Selenium-75	pCi/L	-3.18E-01	2.03E+00		U
Surface Drinking	12/13/2018 10:47	Silver-108m	pCi/L	-7.00E-01	1.16E+00		U
Surface Drinking	12/13/2018 10:47	Silver-110m	pCi/L	-3.99E-01	1.95E+00		U
Surface Drinking	12/13/2018 10:47	Thorium-228	pCi/L	4.20E-01	3.44E+00		U
Surface Drinking	12/13/2018 10:47	Zinc-65	pCi/L	-4.64E-01	3.05E+00	3.00E+01	U
Surface Drinking	12/13/2018 10:47	Zirconium-95	pCi/L	-1.16E+00	2.80E+00	1.50E+01	U

Surface Drinking	12/13/2018 10:47	Iodine-131	pCi/L	5.17E-01	7.94E-01	1.00E+00	U
Surface Drinking	12/13/2018 10:47	BETA	pCi/L	4.90E+00	2.64E+00	4.00E+00	
Surface Drinking	11/12/2018 22:47	Tritium	pCi/L	-7.75E+01	5.93E+02	2.00E+03	U

The data obtained from this website is the most accurate possible at the time of your query and based upon your specific inquiry. This data does not replace the Certificates of Analysis provided by GEL. Certificates of Analysis undergo an additional level of review before being sent to the client that is not

Notes:

1. LLDs are a-priori values.
2. MDCs are calculated a-posteriori values.
3. Gamma spectroscopy analysis results are calculated from a measurement using only one gamma energy l
4. Air sample volumes are received in units of ft3. GEL converts the units and reports them as m3.

QUALIFIERS:

U Target isotope was analyzed for but not detected above the MDC or LLD.
UI Uncertain identification for gamma spectroscopy.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager fc
M Reported result is less than the LLD and greater than the MDC.
DL DL MDC > LLD.

Sample Data For: "SW-6"

Matrix	Collect Date	Parmname	Units	Result	MDC	LLD	Qualifier
Surface Drinking	1/15/2018 19:34	Actinium-228	pCi/L	-5.02E+00	7.35E+00		U
Surface Drinking	1/15/2018 19:34	Antimony-124	pCi/L	-1.23E+00	4.08E+00		U
Surface Drinking	1/15/2018 19:34	Antimony-125	pCi/L	2.79E+00	4.24E+00		U
Surface Drinking	1/15/2018 19:34	Barium-140	pCi/L	-4.85E+00	1.66E+01	1.50E+01	DLU
Surface Drinking	1/15/2018 19:34	Beryllium-7	pCi/L	-1.67E+00	1.52E+01		U
Surface Drinking	1/15/2018 19:34	Cerium-141	pCi/L	1.11E+00	3.85E+00		U
Surface Drinking	1/15/2018 19:34	Cerium-144	pCi/L	-1.21E-01	1.06E+01		U
Surface Drinking	1/15/2018 19:34	Cesium-134	pCi/L	1.16E+00	1.60E+00	1.50E+01	U
Surface Drinking	1/15/2018 19:34	Cesium-137	pCi/L	4.35E-01	1.58E+00	1.80E+01	U
Surface Drinking	1/15/2018 19:34	Chromium-51	pCi/L	1.12E+00	2.02E+01		U
Surface Drinking	1/15/2018 19:34	Cobalt-57	pCi/L	8.27E-01	1.47E+00		U
Surface Drinking	1/15/2018 19:34	Cobalt-58	pCi/L	-1.25E-01	1.55E+00	1.50E+01	U
Surface Drinking	1/15/2018 19:34	Cobalt-60	pCi/L	8.85E-01	1.80E+00	1.50E+01	U
Surface Drinking	1/15/2018 19:34	Iodine-131	pCi/L	-3.04E+00	1.03E+01		U
Surface Drinking	1/15/2018 19:34	Iron-59	pCi/L	-1.74E+00	3.31E+00	3.00E+01	U
Surface Drinking	1/15/2018 19:34	Lanthanum-140	pCi/L	-2.38E+00	5.49E+00	1.50E+01	U
Surface Drinking	1/15/2018 19:34	Manganese-54	pCi/L	2.41E-01	1.49E+00	1.50E+01	U
Surface Drinking	1/15/2018 19:34	Niobium-95	pCi/L	4.29E-01	1.76E+00	1.50E+01	U
Surface Drinking	1/15/2018 19:34	Potassium-40	pCi/L	3.20E+01	1.51E+01		UI

Surface Drinking	1/15/2018 19:34	Ruthenium-103	pCi/L	3.14E-01	1.90E+00		U
Surface Drinking	1/15/2018 19:34	Ruthenium-106	pCi/L	-1.25E+00	1.28E+01		U
Surface Drinking	1/15/2018 19:34	Selenium-75	pCi/L	-5.08E-01	2.09E+00		U
Surface Drinking	1/15/2018 19:34	Silver-108m	pCi/L	-7.85E-02	1.17E+00		U
Surface Drinking	1/15/2018 19:34	Silver-110m	pCi/L	-1.45E-02	1.97E+00		U
Surface Drinking	1/15/2018 19:34	Thorium-228	pCi/L	1.03E+00	3.50E+00		U
Surface Drinking	1/15/2018 19:34	Zinc-65	pCi/L	-1.41E-01	3.17E+00	3.00E+01	U
Surface Drinking	1/15/2018 19:34	Zirconium-95	pCi/L	-5.93E-01	2.89E+00	1.50E+01	U
Surface Drinking	1/15/2018 19:34	Iodine-131	pCi/L	-4.80E-01	9.16E-01	1.00E+00	U
Surface Drinking	1/15/2018 19:34	BETA	pCi/L	2.02E+01	6.28E+00	4.00E+00	DL
Surface Drinking	2/14/2018 7:31	Actinium-228	pCi/L	-4.42E+00	6.19E+00		U
Surface Drinking	2/14/2018 7:31	Antimony-124	pCi/L	-7.59E-01	3.23E+00		U
Surface Drinking	2/14/2018 7:31	Antimony-125	pCi/L	-1.38E+00	3.29E+00		U
Surface Drinking	2/14/2018 7:31	Barium-140	pCi/L	6.13E-01	1.33E+01	1.50E+01	U
Surface Drinking	2/14/2018 7:31	Beryllium-7	pCi/L	1.69E+00	1.35E+01		U
Surface Drinking	2/14/2018 7:31	Cerium-141	pCi/L	-1.77E+00	2.90E+00		U
Surface Drinking	2/14/2018 7:31	Cerium-144	pCi/L	1.45E+00	8.47E+00		U
Surface Drinking	2/14/2018 7:31	Cesium-134	pCi/L	-5.25E-01	1.33E+00	1.50E+01	U
Surface Drinking	2/14/2018 7:31	Cesium-137	pCi/L	8.42E-01	1.31E+00	1.80E+01	U
Surface Drinking	2/14/2018 7:31	Chromium-51	pCi/L	-5.89E-01	1.63E+01		U
Surface Drinking	2/14/2018 7:31	Cobalt-57	pCi/L	9.00E-02	1.12E+00		U
Surface Drinking	2/14/2018 7:31	Cobalt-58	pCi/L	-2.55E-01	1.39E+00	1.50E+01	U
Surface Drinking	2/14/2018 7:31	Cobalt-60	pCi/L	5.42E-01	1.46E+00	1.50E+01	U
Surface Drinking	2/14/2018 7:31	Iodine-131	pCi/L	-4.15E-02	6.92E+00		U
Surface Drinking	2/14/2018 7:31	Iron-59	pCi/L	1.75E+00	3.37E+00	3.00E+01	U
Surface Drinking	2/14/2018 7:31	Lanthanum-140	pCi/L	-2.54E+00	3.81E+00	1.50E+01	U
Surface Drinking	2/14/2018 7:31	Manganese-54	pCi/L	-8.89E-02	1.31E+00	1.50E+01	U
Surface Drinking	2/14/2018 7:31	Niobium-95	pCi/L	-1.63E+00	1.50E+00	1.50E+01	U
Surface Drinking	2/14/2018 7:31	Potassium-40	pCi/L	1.08E+01	1.16E+01		U
Surface Drinking	2/14/2018 7:31	Ruthenium-103	pCi/L	-1.15E+00	1.68E+00		U
Surface Drinking	2/14/2018 7:31	Ruthenium-106	pCi/L	2.08E+00	1.13E+01		U
Surface Drinking	2/14/2018 7:31	Selenium-75	pCi/L	6.90E-01	1.82E+00		U
Surface Drinking	2/14/2018 7:31	Silver-108m	pCi/L	1.82E-01	1.16E+00		U
Surface Drinking	2/14/2018 7:31	Silver-110m	pCi/L	1.03E+00	1.88E+00		U
Surface Drinking	2/14/2018 7:31	Thorium-228	pCi/L	1.46E+00	2.72E+00		U
Surface Drinking	2/14/2018 7:31	Zinc-65	pCi/L	-1.27E+00	2.50E+00	3.00E+01	U
Surface Drinking	2/14/2018 7:31	Zirconium-95	pCi/L	2.20E-01	2.59E+00	1.50E+01	U
Surface Drinking	2/14/2018 7:31	Iodine-131	pCi/L	2.26E-01	8.83E-01	1.00E+00	U
Surface Drinking	2/14/2018 7:31	BETA	pCi/L	2.37E+01	6.49E+00	4.00E+00	DL
Surface Drinking	3/14/2018 10:17	Actinium-228	pCi/L	1.05E+01	5.06E+00		
Surface Drinking	3/14/2018 10:17	Antimony-124	pCi/L	1.43E+00	4.14E+00		U
Surface Drinking	3/14/2018 10:17	Antimony-125	pCi/L	5.56E-01	3.95E+00		U
Surface Drinking	3/14/2018 10:17	Barium-140	pCi/L	-4.13E+00	1.49E+01	1.50E+01	U
Surface Drinking	3/14/2018 10:17	Beryllium-7	pCi/L	3.54E+00	1.50E+01		U

Surface Drinking	3/14/2018 10:17	Cerium-141	pCi/L	-3.11E+00	3.71E+00		U
Surface Drinking	3/14/2018 10:17	Cerium-144	pCi/L	3.37E+00	1.08E+01		U
Surface Drinking	3/14/2018 10:17	Cesium-134	pCi/L	8.27E-01	1.69E+00	1.50E+01	U
Surface Drinking	3/14/2018 10:17	Cesium-137	pCi/L	-9.81E-02	1.55E+00	1.80E+01	U
Surface Drinking	3/14/2018 10:17	Chromium-51	pCi/L	-2.69E+00	1.87E+01		U
Surface Drinking	3/14/2018 10:17	Cobalt-57	pCi/L	-1.81E-01	1.40E+00		U
Surface Drinking	3/14/2018 10:17	Cobalt-58	pCi/L	4.55E-01	1.69E+00	1.50E+01	U
Surface Drinking	3/14/2018 10:17	Cobalt-60	pCi/L	-5.06E-01	1.52E+00	1.50E+01	U
Surface Drinking	3/14/2018 10:17	Iodine-131	pCi/L	-1.27E-01	8.40E+00		U
Surface Drinking	3/14/2018 10:17	Iron-59	pCi/L	6.80E-01	3.84E+00	3.00E+01	U
Surface Drinking	3/14/2018 10:17	Lanthanum-140	pCi/L	1.76E-02	5.68E+00	1.50E+01	U
Surface Drinking	3/14/2018 10:17	Manganese-54	pCi/L	2.27E-01	1.43E+00	1.50E+01	U
Surface Drinking	3/14/2018 10:17	Niobium-95	pCi/L	-3.80E-01	1.63E+00	1.50E+01	U
Surface Drinking	3/14/2018 10:17	Potassium-40	pCi/L	4.68E+01	1.28E+01		
Surface Drinking	3/14/2018 10:17	Ruthenium-103	pCi/L	-7.30E-01	1.91E+00		U
Surface Drinking	3/14/2018 10:17	Ruthenium-106	pCi/L	6.62E+00	1.35E+01		U
Surface Drinking	3/14/2018 10:17	Selenium-75	pCi/L	-3.12E-01	2.13E+00		U
Surface Drinking	3/14/2018 10:17	Silver-108m	pCi/L	2.56E-01	1.33E+00		U
Surface Drinking	3/14/2018 10:17	Silver-110m	pCi/L	-1.83E-01	1.98E+00		U
Surface Drinking	3/14/2018 10:17	Thorium-228	pCi/L	-3.19E+00	3.32E+00		U
Surface Drinking	3/14/2018 10:17	Zinc-65	pCi/L	4.23E-01	3.27E+00	3.00E+01	U
Surface Drinking	3/14/2018 10:17	Zirconium-95	pCi/L	4.15E-01	2.80E+00	1.50E+01	U
Surface Drinking	3/14/2018 10:17	Iodine-131	pCi/L	1.63E-01	9.41E-01	1.00E+00	U
Surface Drinking	3/14/2018 10:17	BETA	pCi/L	1.00E+01	4.63E+00	4.00E+00	DL
Surface Drinking	4/12/2018 19:26	Actinium-228	pCi/L	1.21E+01	5.71E+00		UI
Surface Drinking	4/12/2018 19:26	Antimony-124	pCi/L	-4.07E-02	3.29E+00		U
Surface Drinking	4/12/2018 19:26	Antimony-125	pCi/L	1.75E+00	3.25E+00		U
Surface Drinking	4/12/2018 19:26	Barium-140	pCi/L	5.61E-01	1.10E+01	1.50E+01	U
Surface Drinking	4/12/2018 19:26	Beryllium-7	pCi/L	-5.15E+00	1.18E+01		U
Surface Drinking	4/12/2018 19:26	Cerium-141	pCi/L	2.40E+00	2.57E+00		U
Surface Drinking	4/12/2018 19:26	Cerium-144	pCi/L	3.08E+00	8.19E+00		U
Surface Drinking	4/12/2018 19:26	Cesium-134	pCi/L	-1.11E+00	1.34E+00	1.50E+01	U
Surface Drinking	4/12/2018 19:26	Cesium-137	pCi/L	-1.36E-02	1.23E+00	1.80E+01	U
Surface Drinking	4/12/2018 19:26	Chromium-51	pCi/L	-3.63E+00	1.45E+01		U
Surface Drinking	4/12/2018 19:26	Cobalt-57	pCi/L	-2.48E-01	1.08E+00		U
Surface Drinking	4/12/2018 19:26	Cobalt-58	pCi/L	-4.09E-01	1.19E+00	1.50E+01	U
Surface Drinking	4/12/2018 19:26	Cobalt-60	pCi/L	-1.18E+00	1.15E+00	1.50E+01	U
Surface Drinking	4/12/2018 19:26	Iodine-131	pCi/L	3.03E-01	6.32E+00		U
Surface Drinking	4/12/2018 19:26	Iron-59	pCi/L	-2.92E-01	2.86E+00	3.00E+01	U
Surface Drinking	4/12/2018 19:26	Lanthanum-140	pCi/L	2.25E+00	4.24E+00	1.50E+01	U
Surface Drinking	4/12/2018 19:26	Manganese-54	pCi/L	5.37E-01	1.17E+00	1.50E+01	U
Surface Drinking	4/12/2018 19:26	Niobium-95	pCi/L	-3.52E-01	1.41E+00	1.50E+01	U
Surface Drinking	4/12/2018 19:26	Potassium-40	pCi/L	2.40E+01	1.21E+01		
Surface Drinking	4/12/2018 19:26	Ruthenium-103	pCi/L	-2.80E-01	1.48E+00		U

Surface Drinking	4/12/2018 19:26	Ruthenium-106	pCi/L	-6.16E+00	1.04E+01		U
Surface Drinking	4/12/2018 19:26	Selenium-75	pCi/L	-6.09E-01	1.68E+00		U
Surface Drinking	4/12/2018 19:26	Silver-108m	pCi/L	-5.01E-01	1.05E+00		U
Surface Drinking	4/12/2018 19:26	Silver-110m	pCi/L	-3.36E-01	1.56E+00		U
Surface Drinking	4/12/2018 19:26	Thorium-228	pCi/L	2.37E+00	2.80E+00		U
Surface Drinking	4/12/2018 19:26	Zinc-65	pCi/L	-2.44E-01	2.40E+00	3.00E+01	U
Surface Drinking	4/12/2018 19:26	Zirconium-95	pCi/L	5.40E-01	2.49E+00	1.50E+01	U
Surface Drinking	4/12/2018 19:26	Iodine-131	pCi/L	-1.18E-03	8.17E-01	1.00E+00	U
Surface Drinking	4/12/2018 19:26	BETA	pCi/L	1.62E+01	4.23E+00	4.00E+00	DL
Surface Drinking	2/12/2018 22:17	Tritium	pCi/L	1.35E+04	4.43E+02	2.00E+03	
Surface Drinking	5/15/2018 7:42	Actinium-228	pCi/L	-2.96E+00	6.86E+00		U
Surface Drinking	5/15/2018 7:42	Antimony-124	pCi/L	1.79E+00	4.19E+00		U
Surface Drinking	5/15/2018 7:42	Antimony-125	pCi/L	1.12E+00	3.79E+00		U
Surface Drinking	5/15/2018 7:42	Barium-140	pCi/L	4.51E-01	1.64E+01	1.50E+01	DLU
Surface Drinking	5/15/2018 7:42	Beryllium-7	pCi/L	3.22E+00	1.49E+01		U
Surface Drinking	5/15/2018 7:42	Cerium-141	pCi/L	-1.33E+00	3.05E+00		U
Surface Drinking	5/15/2018 7:42	Cerium-144	pCi/L	-4.99E-01	8.44E+00		U
Surface Drinking	5/15/2018 7:42	Cesium-134	pCi/L	8.70E-01	1.69E+00	1.50E+01	U
Surface Drinking	5/15/2018 7:42	Cesium-137	pCi/L	6.22E-01	1.60E+00	1.80E+01	U
Surface Drinking	5/15/2018 7:42	Chromium-51	pCi/L	2.12E+00	1.87E+01		U
Surface Drinking	5/15/2018 7:42	Cobalt-57	pCi/L	-1.99E-01	1.06E+00		U
Surface Drinking	5/15/2018 7:42	Cobalt-58	pCi/L	-6.13E-01	1.58E+00	1.50E+01	U
Surface Drinking	5/15/2018 7:42	Cobalt-60	pCi/L	4.48E-01	1.65E+00	1.50E+01	U
Surface Drinking	5/15/2018 7:42	Iodine-131	pCi/L	5.62E+00	9.20E+00		U
Surface Drinking	5/15/2018 7:42	Iron-59	pCi/L	-6.13E-01	3.80E+00	3.00E+01	U
Surface Drinking	5/15/2018 7:42	Lanthanum-140	pCi/L	-9.81E-01	5.34E+00	1.50E+01	U
Surface Drinking	5/15/2018 7:42	Manganese-54	pCi/L	1.96E-01	1.53E+00	1.50E+01	U
Surface Drinking	5/15/2018 7:42	Niobium-95	pCi/L	6.64E-01	1.51E+00	1.50E+01	U
Surface Drinking	5/15/2018 7:42	Potassium-40	pCi/L	3.11E+01	1.38E+01		
Surface Drinking	5/15/2018 7:42	Ruthenium-103	pCi/L	1.04E+00	1.96E+00		U
Surface Drinking	5/15/2018 7:42	Ruthenium-106	pCi/L	9.16E+00	1.41E+01		U
Surface Drinking	5/15/2018 7:42	Selenium-75	pCi/L	-1.52E-01	1.93E+00		U
Surface Drinking	5/15/2018 7:42	Silver-108m	pCi/L	9.80E-02	1.28E+00		U
Surface Drinking	5/15/2018 7:42	Silver-110m	pCi/L	7.36E-01	2.23E+00		U
Surface Drinking	5/15/2018 7:42	Thorium-228	pCi/L	2.04E+00	2.75E+00		U
Surface Drinking	5/15/2018 7:42	Zinc-65	pCi/L	-1.27E+00	3.00E+00	3.00E+01	U
Surface Drinking	5/15/2018 7:42	Zirconium-95	pCi/L	-4.84E-01	2.95E+00	1.50E+01	U
Surface Drinking	5/15/2018 7:42	Iodine-131	pCi/L	-5.63E-02	9.02E-01	1.00E+00	U
Surface Drinking	5/15/2018 7:42	BETA	pCi/L	1.78E+01	7.12E+00	4.00E+00	DL
Surface Drinking	6/13/2018 20:26	Actinium-228	pCi/L	7.28E+00	7.53E+00		U
Surface Drinking	6/13/2018 20:26	Antimony-124	pCi/L	-7.61E-01	3.79E+00		U
Surface Drinking	6/13/2018 20:26	Antimony-125	pCi/L	-2.54E+00	4.00E+00		U
Surface Drinking	6/13/2018 20:26	Barium-140	pCi/L	9.70E-01	1.26E+01	1.50E+01	U
Surface Drinking	6/13/2018 20:26	Beryllium-7	pCi/L	3.47E+00	1.45E+01		U

Surface Drinking	6/13/2018 20:26	Cerium-141	pCi/L	2.89E-01	2.60E+00		U
Surface Drinking	6/13/2018 20:26	Cerium-144	pCi/L	-2.23E+00	8.02E+00		U
Surface Drinking	6/13/2018 20:26	Cesium-134	pCi/L	7.63E-02	1.70E+00	1.50E+01	U
Surface Drinking	6/13/2018 20:26	Cesium-137	pCi/L	6.08E-01	1.69E+00	1.80E+01	U
Surface Drinking	6/13/2018 20:26	Chromium-51	pCi/L	-4.43E+00	1.58E+01		U
Surface Drinking	6/13/2018 20:26	Cobalt-57	pCi/L	3.20E-02	1.01E+00		U
Surface Drinking	6/13/2018 20:26	Cobalt-58	pCi/L	-3.02E-01	1.69E+00	1.50E+01	U
Surface Drinking	6/13/2018 20:26	Cobalt-60	pCi/L	2.82E-01	1.72E+00	1.50E+01	U
Surface Drinking	6/13/2018 20:26	Iodine-131	pCi/L	-2.63E+00	5.10E+00		U
Surface Drinking	6/13/2018 20:26	Iron-59	pCi/L	4.41E-01	3.89E+00	3.00E+01	U
Surface Drinking	6/13/2018 20:26	Lanthanum-140	pCi/L	2.58E+00	4.78E+00	1.50E+01	U
Surface Drinking	6/13/2018 20:26	Manganese-54	pCi/L	2.15E-01	1.60E+00	1.50E+01	U
Surface Drinking	6/13/2018 20:26	Niobium-95	pCi/L	2.28E-01	1.76E+00	1.50E+01	U
Surface Drinking	6/13/2018 20:26	Potassium-40	pCi/L	8.04E+00	1.42E+01		U
Surface Drinking	6/13/2018 20:26	Ruthenium-103	pCi/L	2.83E-01	1.85E+00		U
Surface Drinking	6/13/2018 20:26	Ruthenium-106	pCi/L	2.25E+00	1.43E+01		U
Surface Drinking	6/13/2018 20:26	Selenium-75	pCi/L	-9.45E-01	1.84E+00		U
Surface Drinking	6/13/2018 20:26	Silver-108m	pCi/L	-2.76E+00	1.26E+00		U
Surface Drinking	6/13/2018 20:26	Silver-110m	pCi/L	-3.85E-01	2.16E+00		U
Surface Drinking	6/13/2018 20:26	Thorium-228	pCi/L	7.69E-01	3.04E+00		U
Surface Drinking	6/13/2018 20:26	Zinc-65	pCi/L	-4.06E-01	3.59E+00	3.00E+01	U
Surface Drinking	6/13/2018 20:26	Zirconium-95	pCi/L	-4.92E-01	3.11E+00	1.50E+01	U
Surface Drinking	6/13/2018 20:26	Iodine-131	pCi/L	7.41E-03	8.41E-01	1.00E+00	U
Surface Drinking	6/13/2018 20:26	BETA	pCi/L	2.07E+01	8.50E+00	4.00E+00	DL
Surface Drinking	7/16/2018 7:20	Actinium-228	pCi/L	-2.59E+00	6.05E+00		U
Surface Drinking	7/16/2018 7:20	Antimony-124	pCi/L	-1.85E-01	3.70E+00		U
Surface Drinking	7/16/2018 7:20	Antimony-125	pCi/L	6.79E-03	3.60E+00		U
Surface Drinking	7/16/2018 7:20	Barium-140	pCi/L	-2.86E+00	1.22E+01	1.50E+01	U
Surface Drinking	7/16/2018 7:20	Beryllium-7	pCi/L	-1.83E+00	1.33E+01		U
Surface Drinking	7/16/2018 7:20	Cerium-141	pCi/L	-2.05E+00	3.04E+00		U
Surface Drinking	7/16/2018 7:20	Cerium-144	pCi/L	2.34E-01	9.23E+00		U
Surface Drinking	7/16/2018 7:20	Cesium-134	pCi/L	9.90E-01	1.42E+00	1.50E+01	U
Surface Drinking	7/16/2018 7:20	Cesium-137	pCi/L	6.97E-02	1.38E+00	1.80E+01	U
Surface Drinking	7/16/2018 7:20	Chromium-51	pCi/L	3.67E+00	1.83E+01		U
Surface Drinking	7/16/2018 7:20	Cobalt-57	pCi/L	-7.37E-01	1.19E+00		U
Surface Drinking	7/16/2018 7:20	Cobalt-58	pCi/L	-5.47E-01	1.36E+00	1.50E+01	U
Surface Drinking	7/16/2018 7:20	Cobalt-60	pCi/L	-2.43E-01	1.17E+00	1.50E+01	U
Surface Drinking	7/16/2018 7:20	Iodine-131	pCi/L	2.40E+00	6.54E+00		U
Surface Drinking	7/16/2018 7:20	Iron-59	pCi/L	1.07E+00	3.47E+00	3.00E+01	U
Surface Drinking	7/16/2018 7:20	Lanthanum-140	pCi/L	-5.40E+00	3.61E+00	1.50E+01	U
Surface Drinking	7/16/2018 7:20	Manganese-54	pCi/L	-2.28E-01	1.23E+00	1.50E+01	U
Surface Drinking	7/16/2018 7:20	Niobium-95	pCi/L	1.65E-01	1.52E+00	1.50E+01	U
Surface Drinking	7/16/2018 7:20	Potassium-40	pCi/L	2.30E+01	1.37E+01		UI
Surface Drinking	7/16/2018 7:20	Ruthenium-103	pCi/L	-3.16E-02	1.58E+00		U

Surface Drinking	7/16/2018 7:20	Ruthenium-106	pCi/L	-4.95E+00	1.16E+01		U
Surface Drinking	7/16/2018 7:20	Selenium-75	pCi/L	1.91E-01	2.04E+00		U
Surface Drinking	7/16/2018 7:20	Silver-108m	pCi/L	3.55E-01	1.29E+00		U
Surface Drinking	7/16/2018 7:20	Silver-110m	pCi/L	6.94E-01	1.99E+00		U
Surface Drinking	7/16/2018 7:20	Thorium-228	pCi/L	2.51E+00	3.08E+00		U
Surface Drinking	7/16/2018 7:20	Zinc-65	pCi/L	9.62E-01	2.80E+00	3.00E+01	U
Surface Drinking	7/16/2018 7:20	Zirconium-95	pCi/L	-3.76E-01	2.63E+00	1.50E+01	U
Surface Drinking	7/16/2018 7:20	Iodine-131	pCi/L	1.91E-03	8.82E-01	1.00E+00	U
Surface Drinking	7/16/2018 7:20	BETA	pCi/L	1.32E+01	6.63E+00	4.00E+00	DL
Surface Drinking	5/14/2018 8:26	Tritium	pCi/L	1.15E+04	5.64E+02	2.00E+03	
Surface Drinking	8/14/2018 20:03	Actinium-228	pCi/L	4.16E+00	6.24E+00		U
Surface Drinking	8/14/2018 20:03	Antimony-124	pCi/L	-1.93E+00	3.19E+00		U
Surface Drinking	8/14/2018 20:03	Antimony-125	pCi/L	-1.14E+00	3.15E+00		U
Surface Drinking	8/14/2018 20:03	Barium-140	pCi/L	4.95E+00	1.44E+01	1.50E+01	U
Surface Drinking	8/14/2018 20:03	Beryllium-7	pCi/L	-2.38E+00	1.27E+01		U
Surface Drinking	8/14/2018 20:03	Cerium-141	pCi/L	1.54E+00	3.30E+00		U
Surface Drinking	8/14/2018 20:03	Cerium-144	pCi/L	5.07E+00	9.69E+00		U
Surface Drinking	8/14/2018 20:03	Cesium-134	pCi/L	-3.26E-02	1.37E+00	1.50E+01	U
Surface Drinking	8/14/2018 20:03	Cesium-137	pCi/L	-2.36E-01	1.21E+00	1.80E+01	U
Surface Drinking	8/14/2018 20:03	Chromium-51	pCi/L	-8.75E+00	1.70E+01		U
Surface Drinking	8/14/2018 20:03	Cobalt-57	pCi/L	8.03E-01	1.31E+00		U
Surface Drinking	8/14/2018 20:03	Cobalt-58	pCi/L	-8.66E-01	1.27E+00	1.50E+01	U
Surface Drinking	8/14/2018 20:03	Cobalt-60	pCi/L	6.44E-01	1.45E+00	1.50E+01	U
Surface Drinking	8/14/2018 20:03	Iodine-131	pCi/L	-5.32E-01	8.24E+00		U
Surface Drinking	8/14/2018 20:03	Iron-59	pCi/L	-2.30E-01	3.15E+00	3.00E+01	U
Surface Drinking	8/14/2018 20:03	Lanthanum-140	pCi/L	5.38E-02	4.90E+00	1.50E+01	U
Surface Drinking	8/14/2018 20:03	Manganese-54	pCi/L	-1.67E-01	1.19E+00	1.50E+01	U
Surface Drinking	8/14/2018 20:03	Niobium-95	pCi/L	5.48E-01	1.56E+00	1.50E+01	U
Surface Drinking	8/14/2018 20:03	Potassium-40	pCi/L	4.06E+01	1.26E+01		
Surface Drinking	8/14/2018 20:03	Ruthenium-103	pCi/L	-1.37E+00	1.57E+00		U
Surface Drinking	8/14/2018 20:03	Ruthenium-106	pCi/L	2.26E+00	1.15E+01		U
Surface Drinking	8/14/2018 20:03	Selenium-75	pCi/L	4.08E-01	1.95E+00		U
Surface Drinking	8/14/2018 20:03	Silver-108m	pCi/L	4.74E-01	1.14E+00		U
Surface Drinking	8/14/2018 20:03	Silver-110m	pCi/L	-9.60E-02	1.68E+00		U
Surface Drinking	8/14/2018 20:03	Thorium-228	pCi/L	3.12E+00	3.04E+00		UI
Surface Drinking	8/14/2018 20:03	Zinc-65	pCi/L	4.92E-01	2.67E+00	3.00E+01	U
Surface Drinking	8/14/2018 20:03	Zirconium-95	pCi/L	-6.47E-01	2.37E+00	1.50E+01	U
Surface Drinking	8/14/2018 20:03	Iodine-131	pCi/L	3.20E-01	9.10E-01	1.00E+00	U
Surface Drinking	8/14/2018 20:03	BETA	pCi/L	7.63E+00	7.97E+00	4.00E+00	DL
Surface Drinking	9/13/2018 7:24	Actinium-228	pCi/L	2.94E+00	5.46E+00		U
Surface Drinking	9/13/2018 7:24	Antimony-124	pCi/L	-1.69E-01	3.95E+00		U
Surface Drinking	9/13/2018 7:24	Antimony-125	pCi/L	4.09E-01	3.99E+00		U
Surface Drinking	9/13/2018 7:24	Barium-140	pCi/L	-1.04E+00	1.35E+01	1.50E+01	U
Surface Drinking	9/13/2018 7:24	Beryllium-7	pCi/L	4.93E+00	1.53E+01		U

Surface Drinking	9/13/2018 7:24	Cerium-141	pCi/L	1.92E-01	3.52E+00		U
Surface Drinking	9/13/2018 7:24	Cerium-144	pCi/L	-4.32E+00	1.05E+01		U
Surface Drinking	9/13/2018 7:24	Cesium-134	pCi/L	3.74E-01	1.69E+00	1.50E+01	U
Surface Drinking	9/13/2018 7:24	Cesium-137	pCi/L	4.77E-02	1.48E+00	1.80E+01	U
Surface Drinking	9/13/2018 7:24	Chromium-51	pCi/L	1.61E+00	1.93E+01		U
Surface Drinking	9/13/2018 7:24	Cobalt-57	pCi/L	3.96E-02	1.42E+00		U
Surface Drinking	9/13/2018 7:24	Cobalt-58	pCi/L	-5.01E-01	1.42E+00	1.50E+01	U
Surface Drinking	9/13/2018 7:24	Cobalt-60	pCi/L	-2.00E+00	1.77E+00	1.50E+01	U
Surface Drinking	9/13/2018 7:24	Iodine-131	pCi/L	-6.26E-01	7.70E+00		U
Surface Drinking	9/13/2018 7:24	Iron-59	pCi/L	-1.54E+00	3.46E+00	3.00E+01	U
Surface Drinking	9/13/2018 7:24	Lanthanum-140	pCi/L	-1.68E+00	4.66E+00	1.50E+01	U
Surface Drinking	9/13/2018 7:24	Manganese-54	pCi/L	1.72E-01	1.42E+00	1.50E+01	U
Surface Drinking	9/13/2018 7:24	Nioblum-95	pCi/L	-8.58E-02	1.67E+00	1.50E+01	U
Surface Drinking	9/13/2018 7:24	Potassium-40	pCi/L	2.65E+01	1.61E+01		UI
Surface Drinking	9/13/2018 7:24	Ruthenium-103	pCi/L	1.42E-01	1.80E+00		U
Surface Drinking	9/13/2018 7:24	Ruthenium-106	pCi/L	9.43E-01	1.26E+01		U
Surface Drinking	9/13/2018 7:24	Selenium-75	pCi/L	-1.29E-01	2.15E+00		U
Surface Drinking	9/13/2018 7:24	Silver-108m	pCi/L	9.75E-02	1.27E+00		U
Surface Drinking	9/13/2018 7:24	Silver-110m	pCi/L	1.30E-01	2.00E+00		U
Surface Drinking	9/13/2018 7:24	Thorium-228	pCi/L	-2.07E+00	3.46E+00		U
Surface Drinking	9/13/2018 7:24	Zinc-65	pCi/L	8.84E-01	3.11E+00	3.00E+01	U
Surface Drinking	9/13/2018 7:24	Zirconium-95	pCi/L	1.58E-01	3.04E+00	1.50E+01	U
Surface Drinking	9/13/2018 7:24	Iodine-131	pCi/L	2.88E-01	9.32E-01	1.00E+00	U
Surface Drinking	9/13/2018 7:24	BETA	pCi/L	1.11E+01	8.05E+00	4.00E+00	DL
Surface Drinking	10/15/2018 20:08	Actinium-228	pCi/L	-2.42E+00	5.28E+00		U
Surface Drinking	10/15/2018 20:08	Antimony-124	pCi/L	-3.82E-01	3.06E+00		U
Surface Drinking	10/15/2018 20:08	Antimony-125	pCi/L	-3.07E+00	2.79E+00		U
Surface Drinking	10/15/2018 20:08	Barium-140	pCi/L	-1.24E+00	1.27E+01	1.50E+01	U
Surface Drinking	10/15/2018 20:08	Beryllium-7	pCi/L	3.78E+00	1.21E+01		U
Surface Drinking	10/15/2018 20:08	Cerium-141	pCi/L	-4.19E+00	2.81E+00		U
Surface Drinking	10/15/2018 20:08	Cerium-144	pCi/L	7.55E+00	7.12E+00		UI
Surface Drinking	10/15/2018 20:08	Cesium-134	pCi/L	-8.44E-01	1.24E+00	1.50E+01	U
Surface Drinking	10/15/2018 20:08	Cesium-137	pCi/L	3.82E-01	1.09E+00	1.80E+01	U
Surface Drinking	10/15/2018 20:08	Chromium-51	pCi/L	3.33E+00	1.50E+01		U
Surface Drinking	10/15/2018 20:08	Cobalt-57	pCi/L	-2.78E-01	9.85E-01		U
Surface Drinking	10/15/2018 20:08	Cobalt-58	pCi/L	-6.01E-01	1.22E+00	1.50E+01	U
Surface Drinking	10/15/2018 20:08	Cobalt-60	pCi/L	-2.76E-01	1.18E+00	1.50E+01	U
Surface Drinking	10/15/2018 20:08	Iodine-131	pCi/L	-8.81E-01	6.89E+00		U
Surface Drinking	10/15/2018 20:08	Iron-59	pCi/L	-4.43E-01	2.60E+00	3.00E+01	U
Surface Drinking	10/15/2018 20:08	Lanthanum-140	pCi/L	1.06E-01	4.47E+00	1.50E+01	U
Surface Drinking	10/15/2018 20:08	Manganese-54	pCi/L	-2.66E-01	1.16E+00	1.50E+01	U
Surface Drinking	10/15/2018 20:08	Niobium-95	pCi/L	3.45E-01	1.34E+00	1.50E+01	U
Surface Drinking	10/15/2018 20:08	Potassium-40	pCi/L	-3.91E+00	2.05E+01		U
Surface Drinking	10/15/2018 20:08	Ruthenium-103	pCi/L	-4.83E-01	1.55E+00		U

Surface Drinking	10/15/2018 20:08	Ruthenium-106	pCi/L	1.29E-01	9.65E+00		U
Surface Drinking	10/15/2018 20:08	Selenium-75	pCi/L	-4.51E-01	1.63E+00		U
Surface Drinking	10/15/2018 20:08	Silver-108m	pCi/L	4.90E-01	1.06E+00		U
Surface Drinking	10/15/2018 20:08	Silver-110m	pCi/L	-2.95E-02	1.46E+00		U
Surface Drinking	10/15/2018 20:08	Thorium-228	pCi/L	2.27E-01	2.09E+00		U
Surface Drinking	10/15/2018 20:08	Zinc-65	pCi/L	7.88E-01	2.31E+00	3.00E+01	U
Surface Drinking	10/15/2018 20:08	Zirconium-95	pCi/L	8.70E-01	2.37E+00	1.50E+01	U
Surface Drinking	10/15/2018 20:08	Iodine-131	pCi/L	-1.90E-01	8.39E-01	1.00E+00	U
Surface Drinking	10/15/2018 20:08	BETA	pCi/L	9.37E+00	8.53E+00	4.00E+00	DL
Surface Drinking	8/13/2018 7:24	Tritium	pCi/L	1.20E+04	4.29E+02	2.00E+03	
Surface Drinking	11/14/2018 8:31	Actinium-228	pCi/L	-3.78E+00	7.26E+00		U
Surface Drinking	11/14/2018 8:31	Antimony-124	pCi/L	1.93E-01	4.27E+00		U
Surface Drinking	11/14/2018 8:31	Antimony-125	pCi/L	-2.94E-02	3.84E+00		U
Surface Drinking	11/14/2018 8:31	Barium-140	pCi/L	-1.05E+01	1.34E+01	1.50E+01	U
Surface Drinking	11/14/2018 8:31	Beryllium-7	pCi/L	-6.87E+00	1.43E+01		U
Surface Drinking	11/14/2018 8:31	Cerium-141	pCi/L	-5.21E-01	3.75E+00		U
Surface Drinking	11/14/2018 8:31	Cerium-144	pCi/L	-1.87E+00	1.07E+01		U
Surface Drinking	11/14/2018 8:31	Cesium-134	pCi/L	9.10E-01	1.69E+00	1.50E+01	U
Surface Drinking	11/14/2018 8:31	Cesium-137	pCi/L	9.62E-01	1.58E+00	1.80E+01	U
Surface Drinking	11/14/2018 8:31	Chromium-51	pCi/L	5.99E+00	1.93E+01		U
Surface Drinking	11/14/2018 8:31	Cobalt-57	pCi/L	-2.39E-01	1.46E+00		U
Surface Drinking	11/14/2018 8:31	Cobalt-58	pCi/L	4.38E-02	1.68E+00	1.50E+01	U
Surface Drinking	11/14/2018 8:31	Cobalt-60	pCi/L	-1.23E-01	1.56E+00	1.50E+01	U
Surface Drinking	11/14/2018 8:31	Iodine-131	pCi/L	5.52E-01	8.03E+00		U
Surface Drinking	11/14/2018 8:31	Iron-59	pCi/L	-3.26E-01	3.46E+00	3.00E+01	U
Surface Drinking	11/14/2018 8:31	Lanthanum-140	pCi/L	-2.78E+00	4.26E+00	1.50E+01	U
Surface Drinking	11/14/2018 8:31	Manganese-54	pCi/L	-3.00E-01	1.50E+00	1.50E+01	U
Surface Drinking	11/14/2018 8:31	Niobium-95	pCi/L	6.18E-01	1.81E+00	1.50E+01	U
Surface Drinking	11/14/2018 8:31	Potassium-40	pCi/L	-1.48E+01	2.42E+01		U
Surface Drinking	11/14/2018 8:31	Ruthenium-103	pCi/L	7.68E-01	1.94E+00		U
Surface Drinking	11/14/2018 8:31	Ruthenium-106	pCi/L	5.01E+00	1.33E+01		U
Surface Drinking	11/14/2018 8:31	Selenium-75	pCi/L	-8.81E-01	2.12E+00		U
Surface Drinking	11/14/2018 8:31	Silver-108m	pCi/L	-6.94E-02	1.23E+00		U
Surface Drinking	11/14/2018 8:31	Silver-110m	pCi/L	-8.25E-01	1.85E+00		U
Surface Drinking	11/14/2018 8:31	Thorium-228	pCi/L	5.60E-01	2.66E+00		U
Surface Drinking	11/14/2018 8:31	Zinc-65	pCi/L	1.98E+00	3.31E+00	3.00E+01	U
Surface Drinking	11/14/2018 8:31	Zirconium-95	pCi/L	5.81E-01	3.01E+00	1.50E+01	U
Surface Drinking	11/14/2018 8:31	Iodine-131	pCi/L	4.09E-01	7.46E-01	1.00E+00	U
Surface Drinking	11/14/2018 8:31	BETA	pCi/L	9.78E+00	1.17E+01	4.00E+00	DL
Surface Drinking	12/13/2018 8:13	Actinium-228	pCi/L	-2.30E+00	5.84E+00		U
Surface Drinking	12/13/2018 8:13	Antimony-124	pCi/L	-9.77E-01	3.01E+00		U
Surface Drinking	12/13/2018 8:13	Antimony-125	pCi/L	-5.94E-02	3.12E+00		U
Surface Drinking	12/13/2018 8:13	Barium-140	pCi/L	-3.00E+00	1.30E+01	1.50E+01	U
Surface Drinking	12/13/2018 8:13	Beryllium-7	pCi/L	3.41E-01	1.26E+01		U

Surface Drinking	12/13/2018 8:13	Cerium-141	pCi/L	-1.99E+00	2.85E+00		U
Surface Drinking	12/13/2018 8:13	Cerium-144	pCi/L	1.93E+00	7.82E+00		U
Surface Drinking	12/13/2018 8:13	Cesium-134	pCi/L	-5.11E-01	1.22E+00	1.50E+01	U
Surface Drinking	12/13/2018 8:13	Cesium-137	pCi/L	-2.78E-01	1.18E+00	1.80E+01	U
Surface Drinking	12/13/2018 8:13	Chromium-51	pCi/L	-4.91E+00	1.62E+01		U
Surface Drinking	12/13/2018 8:13	Cobalt-57	pCi/L	-7.27E-02	1.01E+00		U
Surface Drinking	12/13/2018 8:13	Cobalt-58	pCi/L	3.30E-01	1.47E+00	1.50E+01	U
Surface Drinking	12/13/2018 8:13	Cobalt-60	pCi/L	-2.38E-01	1.17E+00	1.50E+01	U
Surface Drinking	12/13/2018 8:13	Iodine-131	pCi/L	9.54E-01	7.97E+00		U
Surface Drinking	12/13/2018 8:13	Iron-59	pCi/L	-9.84E-01	2.92E+00	3.00E+01	U
Surface Drinking	12/13/2018 8:13	Lanthanum-140	pCi/L	-3.32E+00	4.09E+00	1.50E+01	U
Surface Drinking	12/13/2018 8:13	Manganese-54	pCi/L	-2.42E-01	1.16E+00	1.50E+01	U
Surface Drinking	12/13/2018 8:13	Niobium-95	pCi/L	7.13E-01	1.52E+00	1.50E+01	U
Surface Drinking	12/13/2018 8:13	Potassium-40	pCi/L	1.87E+01	1.17E+01		UI
Surface Drinking	12/13/2018 8:13	Ruthenium-103	pCi/L	2.51E-01	1.54E+00		U
Surface Drinking	12/13/2018 8:13	Ruthenium-106	pCi/L	2.75E+00	1.14E+01		U
Surface Drinking	12/13/2018 8:13	Selenium-75	pCi/L	-2.34E-01	1.68E+00		U
Surface Drinking	12/13/2018 8:13	Silver-108m	pCi/L	5.23E-02	1.04E+00		U
Surface Drinking	12/13/2018 8:13	Silver-110m	pCi/L	-1.69E-01	1.65E+00		U
Surface Drinking	12/13/2018 8:13	Thorium-228	pCi/L	1.48E+00	2.55E+00		U
Surface Drinking	12/13/2018 8:13	Zinc-65	pCi/L	2.34E-03	2.49E+00	3.00E+01	U
Surface Drinking	12/13/2018 8:13	Zirconium-95	pCi/L	-8.21E-01	2.31E+00	1.50E+01	U
Surface Drinking	12/13/2018 8:13	Iodine-131	pCi/L	1.58E-01	8.45E-01	1.00E+00	U
Surface Drinking	12/13/2018 8:13	BETA	pCi/L	1.31E+01	6.84E+00	4.00E+00	DL
Surface Drinking	11/12/2018 20:13	Tritium	pCi/L	1.26E+04	5.97E+02	2.00E+03	

Notes:

1. LLDs are a-priori values.
2. MDCs are calculated a-posteriori values.
3. Gamma spectroscopy analysis results are calculated from a measurement using only one gamma energy l
4. Air sample volumes are received in units of ft3. GEL converts the units and reports them as m3.

QUALIFIERS:

U Target isotope was analyzed for but not detected above the MDC or LLD.
UI Uncertain identification for gamma spectroscopy.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager fc
M Reported result is less than the LLD and greater than the MDC.
DL DL MDC > LLD.

Sample Data For: "SW-1"

Matrix	Collect Date	Parmname	Units	Result	MDC	LLD	Qualifier
Surface Water	1/15/2018 21:52	Actinium-228	pCi/L	1.77E+00	6.99E+00		U
Surface Water	1/15/2018 21:52	Antimony-124	pCi/L	8.05E-01	4.15E+00		U
Surface Water	1/15/2018 21:52	Antimony-125	pCi/L	1.42E+00	4.03E+00		U
Surface Water	1/15/2018 21:52	Barium-140	pCi/L	-4.80E+00	1.49E+01	1.50E+01	U
Surface Water	1/15/2018 21:52	Beryllium-7	pCi/L	-3.01E+00	1.52E+01		U
Surface Water	1/15/2018 21:52	Cerium-141	pCi/L	9.16E-01	3.49E+00		U
Surface Water	1/15/2018 21:52	Cerium-144	pCi/L	-6.14E-01	1.04E+01		U
Surface Water	1/15/2018 21:52	Cesium-134	pCi/L	1.51E-01	1.57E+00	1.50E+01	U
Surface Water	1/15/2018 21:52	Cesium-137	pCi/L	5.06E-02	1.49E+00	1.80E+01	U
Surface Water	1/15/2018 21:52	Chromium-51	pCi/L	-4.51E+00	1.93E+01		U
Surface Water	1/15/2018 21:52	Cobalt-57	pCi/L	6.64E-01	1.40E+00		U
Surface Water	1/15/2018 21:52	Cobalt-58	pCi/L	-3.40E-01	1.44E+00	1.50E+01	U
Surface Water	1/15/2018 21:52	Cobalt-60	pCi/L	-9.22E-03	1.56E+00	1.50E+01	U
Surface Water	1/15/2018 21:52	Iodine-131	pCi/L	-2.03E+00	8.94E+00		U
Surface Water	1/15/2018 21:52	Iron-59	pCi/L	-1.10E+00	3.62E+00	3.00E+01	U
Surface Water	1/15/2018 21:52	Lanthanum-140	pCi/L	3.33E-01	5.23E+00	1.50E+01	U
Surface Water	1/15/2018 21:52	Manganese-54	pCi/L	1.81E-01	1.42E+00	1.50E+01	U
Surface Water	1/15/2018 21:52	Niobium-95	pCi/L	-2.02E+00	1.71E+00	1.50E+01	U
Surface Water	1/15/2018 21:52	Potassium-40	pCi/L	8.56E+00	1.43E+01		U
Surface Water	1/15/2018 21:52	Ruthenium-103	pCi/L	-7.02E-01	1.76E+00		U
Surface Water	1/15/2018 21:52	Ruthenium-106	pCi/L	1.13E+00	1.30E+01		U
Surface Water	1/15/2018 21:52	Selenium-75	pCi/L	-3.90E-01	2.13E+00		U
Surface Water	1/15/2018 21:52	Silver-108m	pCi/L	1.50E-01	1.29E+00		U
Surface Water	1/15/2018 21:52	Silver-110m	pCi/L	-1.63E-01	2.01E+00		U
Surface Water	1/15/2018 21:52	Thorium-228	pCi/L	-1.76E+00	3.63E+00		U
Surface Water	1/15/2018 21:52	Zinc-65	pCi/L	-1.98E-01	2.92E+00	3.00E+01	U
Surface Water	1/15/2018 21:52	Zirconium-95	pCi/L	-5.62E-01	3.14E+00	1.50E+01	U
Surface Water	2/14/2018 9:53	Actinium-228	pCi/L	-2.52E+00	6.06E+00		U
Surface Water	2/14/2018 9:53	Antimony-124	pCi/L	-5.68E-01	3.67E+00		U
Surface Water	2/14/2018 9:53	Antimony-125	pCi/L	1.47E+00	3.76E+00		U
Surface Water	2/14/2018 9:53	Barium-140	pCi/L	-8.58E-01	1.31E+01	1.50E+01	U
Surface Water	2/14/2018 9:53	Beryllium-7	pCi/L	1.02E+01	1.47E+01		U
Surface Water	2/14/2018 9:53	Cerium-141	pCi/L	-6.79E-01	2.99E+00		U
Surface Water	2/14/2018 9:53	Cerium-144	pCi/L	-4.99E-01	8.81E+00		U
Surface Water	2/14/2018 9:53	Cesium-134	pCi/L	-4.96E-01	1.53E+00	1.50E+01	U
Surface Water	2/14/2018 9:53	Cesium-137	pCi/L	2.24E-01	1.27E+00	1.80E+01	U
Surface Water	2/14/2018 9:53	Chromium-51	pCi/L	-8.67E-01	1.68E+01		U
Surface Water	2/14/2018 9:53	Cobalt-57	pCi/L	3.70E-01	1.22E+00		U
Surface Water	2/14/2018 9:53	Cobalt-58	pCi/L	2.73E-02	1.41E+00	1.50E+01	U
Surface Water	2/14/2018 9:53	Cobalt-60	pCi/L	-3.82E-01	1.33E+00	1.50E+01	U
Surface Water	2/14/2018 9:53	Iodine-131	pCi/L	-5.41E-01	7.03E+00		U

Surface Water	2/14/2018 9:53	Iron-59	pCi/L	-8.71E-01	3.45E+00	3.00E+01	U
Surface Water	2/14/2018 9:53	Lanthanum-140	pCi/L	3.00E-02	4.84E+00	1.50E+01	U
Surface Water	2/14/2018 9:53	Manganese-54	pCi/L	4.91E-01	1.36E+00	1.50E+01	U
Surface Water	2/14/2018 9:53	Niobium-95	pCi/L	-1.80E+00	1.45E+00	1.50E+01	U
Surface Water	2/14/2018 9:53	Potassium-40	pCi/L	2.47E+01	1.43E+01		UI
Surface Water	2/14/2018 9:53	Ruthenium-103	pCi/L	-1.81E-01	1.66E+00		U
Surface Water	2/14/2018 9:53	Ruthenium-106	pCi/L	-2.28E+00	1.12E+01		U
Surface Water	2/14/2018 9:53	Selenium-75	pCi/L	3.61E-01	1.84E+00		U
Surface Water	2/14/2018 9:53	Silver-108m	pCi/L	-3.40E-01	1.08E+00		U
Surface Water	2/14/2018 9:53	Silver-110m	pCi/L	4.58E-01	1.82E+00		U
Surface Water	2/14/2018 9:53	Thorium-228	pCi/L	-1.58E+00	3.01E+00		U
Surface Water	2/14/2018 9:53	Zinc-65	pCi/L	-3.23E-01	2.76E+00	3.00E+01	U
Surface Water	2/14/2018 9:53	Zirconium-95	pCi/L	-6.42E-01	2.58E+00	1.50E+01	U
Surface Water	3/14/2018 10:09	Actinium-228	pCi/L	3.37E+00	6.34E+00		U
Surface Water	3/14/2018 10:09	Antimony-124	pCi/L	3.20E+00	3.88E+00		U
Surface Water	3/14/2018 10:09	Antimony-125	pCi/L	7.77E-01	3.86E+00		U
Surface Water	3/14/2018 10:09	Barium-140	pCi/L	4.34E+00	1.49E+01	1.50E+01	U
Surface Water	3/14/2018 10:09	Beryllium-7	pCi/L	-7.40E+00	1.47E+01		U
Surface Water	3/14/2018 10:09	Cerium-141	pCi/L	-1.38E+00	3.44E+00		U
Surface Water	3/14/2018 10:09	Cerium-144	pCi/L	1.98E+00	9.80E+00		U
Surface Water	3/14/2018 10:09	Cesium-134	pCi/L	-2.55E-01	1.50E+00	1.50E+01	U
Surface Water	3/14/2018 10:09	Cesium-137	pCi/L	4.68E-01	1.50E+00	1.80E+01	U
Surface Water	3/14/2018 10:09	Chromium-51	pCi/L	-2.52E+00	1.79E+01		U
Surface Water	3/14/2018 10:09	Cobalt-57	pCi/L	2.85E-01	1.36E+00		U
Surface Water	3/14/2018 10:09	Cobalt-58	pCi/L	6.13E-01	1.71E+00	1.50E+01	U
Surface Water	3/14/2018 10:09	Cobalt-60	pCi/L	2.97E-01	1.46E+00	1.50E+01	U
Surface Water	3/14/2018 10:09	Iodine-131	pCi/L	4.97E-01	7.92E+00		U
Surface Water	3/14/2018 10:09	Iron-59	pCi/L	-1.72E+00	3.37E+00	3.00E+01	U
Surface Water	3/14/2018 10:09	Lanthanum-140	pCi/L	1.48E-01	5.10E+00	1.50E+01	U
Surface Water	3/14/2018 10:09	Manganese-54	pCi/L	-1.37E-01	1.34E+00	1.50E+01	U
Surface Water	3/14/2018 10:09	Niobium-95	pCi/L	-8.89E-03	1.77E+00	1.50E+01	U
Surface Water	3/14/2018 10:09	Potassium-40	pCi/L	3.48E+01	1.32E+01		
Surface Water	3/14/2018 10:09	Ruthenium-103	pCi/L	-3.10E-01	1.93E+00		U
Surface Water	3/14/2018 10:09	Ruthenium-106	pCi/L	6.61E-01	1.29E+01		U
Surface Water	3/14/2018 10:09	Selenium-75	pCi/L	4.61E-01	1.93E+00		U
Surface Water	3/14/2018 10:09	Silver-108m	pCi/L	-3.28E-01	1.22E+00		U
Surface Water	3/14/2018 10:09	Silver-110m	pCi/L	-1.36E+00	1.76E+00		U
Surface Water	3/14/2018 10:09	Thorium-228	pCi/L	2.70E+00	2.86E+00		U
Surface Water	3/14/2018 10:09	Zinc-65	pCi/L	9.09E-01	2.93E+00	3.00E+01	U
Surface Water	3/14/2018 10:09	Zirconium-95	pCi/L	9.24E-01	2.93E+00	1.50E+01	U
Surface Water	4/12/2018 21:37	Actinium-228	pCi/L	4.12E+00	6.13E+00		U
Surface Water	4/12/2018 21:37	Antimony-124	pCi/L	-5.22E-02	4.14E+00		U
Surface Water	4/12/2018 21:37	Antimony-125	pCi/L	-1.16E-01	3.79E+00		U
Surface Water	4/12/2018 21:37	Barium-140	pCi/L	1.27E+01	1.59E+01	1.50E+01	DLU

Surface Water	4/12/2018 21:37	Beryllium-7	pCi/L	8.73E+00	1.55E+01		U
Surface Water	4/12/2018 21:37	Cerium-141	pCi/L	-7.51E+00	3.30E+00		U
Surface Water	4/12/2018 21:37	Cerium-144	pCi/L	1.43E+00	1.00E+01		U
Surface Water	4/12/2018 21:37	Cesium-134	pCi/L	-2.63E-01	1.53E+00	1.50E+01	U
Surface Water	4/12/2018 21:37	Cesium-137	pCi/L	-5.76E-03	1.46E+00	1.80E+01	U
Surface Water	4/12/2018 21:37	Chromium-51	pCi/L	-1.08E+01	1.69E+01		U
Surface Water	4/12/2018 21:37	Cobalt-57	pCi/L	3.46E-02	1.38E+00		U
Surface Water	4/12/2018 21:37	Cobalt-58	pCi/L	-2.74E-01	1.57E+00	1.50E+01	U
Surface Water	4/12/2018 21:37	Cobalt-60	pCi/L	3.54E-01	1.47E+00	1.50E+01	U
Surface Water	4/12/2018 21:37	Iodine-131	pCi/L	1.05E+00	7.43E+00		U
Surface Water	4/12/2018 21:37	Iron-59	pCi/L	-3.79E-02	3.60E+00	3.00E+01	U
Surface Water	4/12/2018 21:37	Lanthanum-140	pCi/L	-6.82E-01	4.30E+00	1.50E+01	U
Surface Water	4/12/2018 21:37	Manganese-54	pCi/L	-1.16E+00	1.38E+00	1.50E+01	U
Surface Water	4/12/2018 21:37	Niobium-95	pCi/L	3.11E-01	1.89E+00	1.50E+01	U
Surface Water	4/12/2018 21:37	Potassium-40	pCi/L	3.13E+01	1.44E+01		
Surface Water	4/12/2018 21:37	Ruthenium-103	pCi/L	5.06E-01	1.91E+00		U
Surface Water	4/12/2018 21:37	Ruthenium-106	pCi/L	1.39E+00	1.36E+01		U
Surface Water	4/12/2018 21:37	Selenium-75	pCi/L	8.72E-01	1.96E+00		U
Surface Water	4/12/2018 21:37	Silver-108m	pCi/L	-1.58E-01	1.23E+00		U
Surface Water	4/12/2018 21:37	Silver-110m	pCi/L	3.08E-02	1.91E+00		U
Surface Water	4/12/2018 21:37	Thorium-228	pCi/L	4.33E+00	2.42E+00		
Surface Water	4/12/2018 21:37	Zinc-65	pCi/L	9.18E-01	2.92E+00	3.00E+01	U
Surface Water	4/12/2018 21:37	Zirconium-95	pCi/L	-9.42E-02	2.92E+00	1.50E+01	U
Surface Water	2/12/2018 22:09	Tritium	pCi/L	1.31E+04	4.40E+02	2.00E+03	
Surface Water	5/15/2018 9:53	Actinium-228	pCi/L	8.50E+00	5.10E+00		
Surface Water	5/15/2018 9:53	Antimony-124	pCi/L	-1.70E+00	4.23E+00		U
Surface Water	5/15/2018 9:53	Antimony-125	pCi/L	4.44E-01	4.01E+00		U
Surface Water	5/15/2018 9:53	Barium-140	pCi/L	1.19E+01	1.72E+01	1.50E+01	DLU
Surface Water	5/15/2018 9:53	Beryllium-7	pCi/L	-1.68E+00	1.44E+01		U
Surface Water	5/15/2018 9:53	Cerium-141	pCi/L	-7.41E-02	3.41E+00		U
Surface Water	5/15/2018 9:53	Cerium-144	pCi/L	6.59E-01	9.97E+00		U
Surface Water	5/15/2018 9:53	Cesium-134	pCi/L	9.53E-02	1.58E+00	1.50E+01	U
Surface Water	5/15/2018 9:53	Cesium-137	pCi/L	3.84E-01	1.63E+00	1.80E+01	U
Surface Water	5/15/2018 9:53	Chromium-51	pCi/L	-4.69E-01	1.89E+01		U
Surface Water	5/15/2018 9:53	Cobalt-57	pCi/L	-2.35E-01	1.29E+00		U
Surface Water	5/15/2018 9:53	Cobalt-58	pCi/L	5.56E-01	1.77E+00	1.50E+01	U
Surface Water	5/15/2018 9:53	Cobalt-60	pCi/L	9.52E-02	1.57E+00	1.50E+01	U
Surface Water	5/15/2018 9:53	Iodine-131	pCi/L	3.61E+00	9.32E+00		U
Surface Water	5/15/2018 9:53	Iron-59	pCi/L	1.52E+00	3.80E+00	3.00E+01	U
Surface Water	5/15/2018 9:53	Lanthanum-140	pCi/L	4.76E-01	5.36E+00	1.50E+01	U
Surface Water	5/15/2018 9:53	Manganese-54	pCi/L	1.52E-01	1.61E+00	1.50E+01	U
Surface Water	5/15/2018 9:53	Niobium-95	pCi/L	4.55E-01	1.82E+00	1.50E+01	U
Surface Water	5/15/2018 9:53	Potassium-40	pCi/L	4.71E+00	1.53E+01		U
Surface Water	5/15/2018 9:53	Ruthenium-103	pCi/L	-2.85E-01	1.90E+00		U

Surface Water	5/15/2018 9:53	Ruthenium-106	pCi/L	-6.86E-01	1.32E+01		U
Surface Water	5/15/2018 9:53	Selenium-75	pCi/L	8.62E-01	2.15E+00		U
Surface Water	5/15/2018 9:53	Silver-108m	pCi/L	-4.46E-01	1.15E+00		U
Surface Water	5/15/2018 9:53	Silver-110m	pCi/L	1.32E+00	2.24E+00		U
Surface Water	5/15/2018 9:53	Thorium-228	pCi/L	4.40E+00	3.26E+00		UI
Surface Water	5/15/2018 9:53	Zinc-65	pCi/L	4.19E-01	3.36E+00	3.00E+01	U
Surface Water	5/15/2018 9:53	Zirconium-95	pCi/L	-9.39E-01	3.07E+00	1.50E+01	U
Surface Water	6/13/2018 22:58	Actinium-228	pCi/L	-2.99E+00	5.71E+00		U
Surface Water	6/13/2018 22:58	Antimony-124	pCi/L	-3.41E-01	2.94E+00		U
Surface Water	6/13/2018 22:58	Antimony-125	pCi/L	-2.51E+00	3.16E+00		U
Surface Water	6/13/2018 22:58	Barium-140	pCi/L	4.06E-01	1.04E+01	1.50E+01	U
Surface Water	6/13/2018 22:58	Beryllium-7	pCi/L	-2.15E+00	1.17E+01		U
Surface Water	6/13/2018 22:58	Cerium-141	pCi/L	-4.75E+00	2.86E+00		U
Surface Water	6/13/2018 22:58	Cerium-144	pCi/L	1.29E+00	9.21E+00		U
Surface Water	6/13/2018 22:58	Cesium-134	pCi/L	6.41E-01	1.38E+00	1.50E+01	U
Surface Water	6/13/2018 22:58	Cesium-137	pCi/L	5.10E-02	1.23E+00	1.80E+01	U
Surface Water	6/13/2018 22:58	Chromium-51	pCi/L	-1.48E+01	1.46E+01		U
Surface Water	6/13/2018 22:58	Cobalt-57	pCi/L	3.74E-01	1.25E+00		U
Surface Water	6/13/2018 22:58	Cobalt-58	pCi/L	6.42E-01	1.29E+00	1.50E+01	U
Surface Water	6/13/2018 22:58	Cobalt-60	pCi/L	-2.77E-02	1.24E+00	1.50E+01	U
Surface Water	6/13/2018 22:58	Iodine-131	pCi/L	2.26E+00	5.03E+00		U
Surface Water	6/13/2018 22:58	Iron-59	pCi/L	-1.61E-01	2.86E+00	3.00E+01	U
Surface Water	6/13/2018 22:58	Lanthanum-140	pCi/L	-8.46E-01	3.36E+00	1.50E+01	U
Surface Water	6/13/2018 22:58	Manganese-54	pCi/L	-1.11E-01	1.20E+00	1.50E+01	U
Surface Water	6/13/2018 22:58	Niobium-95	pCi/L	2.68E-01	1.35E+00	1.50E+01	U
Surface Water	6/13/2018 22:58	Potassium-40	pCi/L	7.56E+00	1.25E+01		U
Surface Water	6/13/2018 22:58	Ruthenium-103	pCi/L	-3.45E-01	1.44E+00		U
Surface Water	6/13/2018 22:58	Ruthenium-106	pCi/L	1.92E+00	1.13E+01		U
Surface Water	6/13/2018 22:58	Selenium-75	pCi/L	-6.38E-01	1.80E+00		U
Surface Water	6/13/2018 22:58	Silver-108m	pCi/L	1.29E-01	1.09E+00		U
Surface Water	6/13/2018 22:58	Silver-110m	pCi/L	-1.24E+00	1.70E+00		U
Surface Water	6/13/2018 22:58	Thorium-228	pCi/L	2.71E+00	2.86E+00		U
Surface Water	6/13/2018 22:58	Zinc-65	pCi/L	5.99E-01	2.66E+00	3.00E+01	U
Surface Water	6/13/2018 22:58	Zirconium-95	pCi/L	-1.51E+00	2.18E+00	1.50E+01	U
Surface Water	7/16/2018 9:24	Actinium-228	pCi/L	4.26E+00	7.59E+00		U
Surface Water	7/16/2018 9:24	Antimony-124	pCi/L	8.08E-01	4.40E+00		U
Surface Water	7/16/2018 9:24	Antimony-125	pCi/L	2.77E+00	4.29E+00		U
Surface Water	7/16/2018 9:24	Barium-140	pCi/L	-9.83E+00	1.48E+01	1.50E+01	U
Surface Water	7/16/2018 9:24	Beryllium-7	pCi/L	3.77E+00	1.47E+01		U
Surface Water	7/16/2018 9:24	Cerium-141	pCi/L	-6.92E+00	3.56E+00		U
Surface Water	7/16/2018 9:24	Cerium-144	pCi/L	-1.47E+00	1.13E+01		U
Surface Water	7/16/2018 9:24	Cesium-134	pCi/L	-2.50E-01	1.53E+00	1.50E+01	U
Surface Water	7/16/2018 9:24	Cesium-137	pCi/L	5.14E-01	1.66E+00	1.80E+01	U
Surface Water	7/16/2018 9:24	Chromium-51	pCi/L	3.10E+00	1.95E+01		U

Surface Water	7/16/2018 9:24	Cobalt-57	pCi/L	6.52E-01	1.70E+00		U
Surface Water	7/16/2018 9:24	Cobalt-58	pCi/L	1.44E+00	1.95E+00	1.50E+01	U
Surface Water	7/16/2018 9:24	Cobalt-60	pCi/L	-4.25E-01	1.51E+00	1.50E+01	U
Surface Water	7/16/2018 9:24	Iodine-131	pCi/L	3.16E+00	7.50E+00		U
Surface Water	7/16/2018 9:24	Iron-59	pCi/L	8.09E-01	3.87E+00	3.00E+01	U
Surface Water	7/16/2018 9:24	Lanthanum-140	pCi/L	-1.21E+00	4.52E+00	1.50E+01	U
Surface Water	7/16/2018 9:24	Manganese-54	pCi/L	1.06E+00	1.05E+00	1.50E+01	UI
Surface Water	7/16/2018 9:24	Niobium-95	pCi/L	1.45E+00	1.73E+00	1.50E+01	U
Surface Water	7/16/2018 9:24	Potassium-40	pCi/L	3.30E+00	1.48E+01		U
Surface Water	7/16/2018 9:24	Ruthenium-103	pCi/L	-1.50E+00	1.87E+00		U
Surface Water	7/16/2018 9:24	Ruthenium-106	pCi/L	4.76E-01	1.40E+01		U
Surface Water	7/16/2018 9:24	Selenium-75	pCi/L	-8.45E-02	2.08E+00		U
Surface Water	7/16/2018 9:24	Silver-108m	pCi/L	4.44E-01	1.39E+00		U
Surface Water	7/16/2018 9:24	Silver-110m	pCi/L	-3.79E-01	2.06E+00		U
Surface Water	7/16/2018 9:24	Thorium-228	pCi/L	-7.60E-01	3.23E+00		U
Surface Water	7/16/2018 9:24	Zinc-65	pCi/L	-1.14E+00	3.28E+00	3.00E+01	U
Surface Water	7/16/2018 9:24	Zirconium-95	pCi/L	1.01E+00	3.13E+00	1.50E+01	U
Surface Water	5/14/2018 10:58	Tritium	pCi/L	1.21E+04	5.85E+02	2.00E+03	
Surface Water	8/14/2018 22:06	Actinium-228	pCi/L	-2.48E+00	5.59E+00		U
Surface Water	8/14/2018 22:06	Antimony-124	pCi/L	6.04E-01	3.74E+00		U
Surface Water	8/14/2018 22:06	Antimony-125	pCi/L	-4.72E-01	3.42E+00		U
Surface Water	8/14/2018 22:06	Barium-140	pCi/L	2.80E-01	1.38E+01	1.50E+01	U
Surface Water	8/14/2018 22:06	Beryllium-7	pCi/L	-3.79E+00	1.25E+01		U
Surface Water	8/14/2018 22:06	Cerium-141	pCi/L	-6.34E-01	3.12E+00		U
Surface Water	8/14/2018 22:06	Cerium-144	pCi/L	1.95E+00	8.91E+00		U
Surface Water	8/14/2018 22:06	Cesium-134	pCi/L	1.03E+00	1.48E+00	1.50E+01	U
Surface Water	8/14/2018 22:06	Cesium-137	pCi/L	3.97E-01	1.24E+00	1.80E+01	U
Surface Water	8/14/2018 22:06	Chromium-51	pCi/L	8.28E-01	1.65E+01		U
Surface Water	8/14/2018 22:06	Cobalt-57	pCi/L	1.75E-01	1.16E+00		U
Surface Water	8/14/2018 22:06	Cobalt-58	pCi/L	2.54E-01	1.40E+00	1.50E+01	U
Surface Water	8/14/2018 22:06	Cobalt-60	pCi/L	-4.87E-02	1.19E+00	1.50E+01	U
Surface Water	8/14/2018 22:06	Iodine-131	pCi/L	1.28E+00	7.77E+00		U
Surface Water	8/14/2018 22:06	Iron-59	pCi/L	7.49E-01	3.43E+00	3.00E+01	U
Surface Water	8/14/2018 22:06	Lanthanum-140	pCi/L	8.39E-01	5.12E+00	1.50E+01	U
Surface Water	8/14/2018 22:06	Manganese-54	pCi/L	3.46E-01	1.31E+00	1.50E+01	U
Surface Water	8/14/2018 22:06	Niobium-95	pCi/L	-1.24E+00	1.57E+00	1.50E+01	U
Surface Water	8/14/2018 22:06	Potassium-40	pCi/L	4.19E+00	2.31E+01		U
Surface Water	8/14/2018 22:06	Ruthenium-103	pCi/L	2.44E-01	1.65E+00		U
Surface Water	8/14/2018 22:06	Ruthenium-106	pCi/L	2.39E+00	1.16E+01		U
Surface Water	8/14/2018 22:06	Selenium-75	pCi/L	2.05E-02	1.77E+00		U
Surface Water	8/14/2018 22:06	Silver-108m	pCi/L	-2.88E-01	1.07E+00		U
Surface Water	8/14/2018 22:06	Silver-110m	pCi/L	-1.13E-01	1.65E+00		U
Surface Water	8/14/2018 22:06	Thorium-228	pCi/L	-1.88E-01	2.74E+00		U
Surface Water	8/14/2018 22:06	Zinc-65	pCi/L	-8.98E-01	2.71E+00	3.00E+01	U

Surface Water	8/14/2018 22:06	Zirconium-95	pCi/L	5.01E-01	2.66E+00	1.50E+01	U
Surface Water	9/13/2018 10:03	Actinium-228	pCi/L	2.95E-01	5.35E+00		U
Surface Water	9/13/2018 10:03	Antimony-124	pCi/L	-1.13E+00	2.54E+00		U
Surface Water	9/13/2018 10:03	Antimony-125	pCi/L	-6.15E-01	2.68E+00		U
Surface Water	9/13/2018 10:03	Barium-140	pCi/L	3.97E+00	1.06E+01	1.50E+01	U
Surface Water	9/13/2018 10:03	Beryllium-7	pCi/L	3.22E+00	1.09E+01		U
Surface Water	9/13/2018 10:03	Cerium-141	pCi/L	6.88E-01	2.42E+00		U
Surface Water	9/13/2018 10:03	Cerium-144	pCi/L	-1.23E+00	7.30E+00		U
Surface Water	9/13/2018 10:03	Cesium-134	pCi/L	-2.61E-01	1.10E+00	1.50E+01	U
Surface Water	9/13/2018 10:03	Cesium-137	pCi/L	1.26E-01	1.12E+00	1.80E+01	U
Surface Water	9/13/2018 10:03	Chromium-51	pCi/L	2.88E+00	1.35E+01		U
Surface Water	9/13/2018 10:03	Cobalt-57	pCi/L	-2.56E-01	9.41E-01		U
Surface Water	9/13/2018 10:03	Cobalt-58	pCi/L	-2.19E-02	1.17E+00	1.50E+01	U
Surface Water	9/13/2018 10:03	Cobalt-60	pCi/L	-1.44E+00	1.40E+00	1.50E+01	U
Surface Water	9/13/2018 10:03	Iodine-131	pCi/L	1.04E+00	5.50E+00		U
Surface Water	9/13/2018 10:03	Iron-59	pCi/L	-8.42E-01	2.47E+00	3.00E+01	U
Surface Water	9/13/2018 10:03	Lanthanum-140	pCi/L	-2.44E+00	3.23E+00	1.50E+01	U
Surface Water	9/13/2018 10:03	Manganese-54	pCi/L	-9.18E-02	1.11E+00	1.50E+01	U
Surface Water	9/13/2018 10:03	Niobium-95	pCi/L	6.49E-02	1.20E+00	1.50E+01	U
Surface Water	9/13/2018 10:03	Potassium-40	pCi/L	1.30E+01	1.04E+01		UI
Surface Water	9/13/2018 10:03	Ruthenium-103	pCi/L	3.06E-01	1.34E+00		U
Surface Water	9/13/2018 10:03	Ruthenium-106	pCi/L	1.93E+00	9.57E+00		U
Surface Water	9/13/2018 10:03	Selenium-75	pCi/L	-4.20E-01	1.49E+00		U
Surface Water	9/13/2018 10:03	Silver-108m	pCi/L	3.21E-01	9.37E-01		U
Surface Water	9/13/2018 10:03	Silver-110m	pCi/L	-2.77E-01	1.39E+00		U
Surface Water	9/13/2018 10:03	Thorium-228	pCi/L	2.70E-01	2.51E+00		U
Surface Water	9/13/2018 10:03	Zinc-65	pCi/L	3.67E-01	2.36E+00	3.00E+01	U
Surface Water	9/13/2018 10:03	Zirconium-95	pCi/L	6.36E-01	2.27E+00	1.50E+01	U
Surface Water	10/15/2018 22:05	Actinium-228	pCi/L	-4.08E+00	5.64E+00		U
Surface Water	10/15/2018 22:05	Antimony-124	pCi/L	-9.91E-01	3.27E+00		U
Surface Water	10/15/2018 22:05	Antimony-125	pCi/L	1.43E-01	3.53E+00		U
Surface Water	10/15/2018 22:05	Barium-140	pCi/L	3.95E+00	1.43E+01	1.50E+01	U
Surface Water	10/15/2018 22:05	Beryllium-7	pCi/L	6.59E+00	1.35E+01		U
Surface Water	10/15/2018 22:05	Cerium-141	pCi/L	-2.49E+00	3.07E+00		U
Surface Water	10/15/2018 22:05	Cerium-144	pCi/L	-1.18E+00	8.84E+00		U
Surface Water	10/15/2018 22:05	Cesium-134	pCi/L	2.16E-02	1.27E+00	1.50E+01	U
Surface Water	10/15/2018 22:05	Cesium-137	pCi/L	8.71E-02	1.30E+00	1.80E+01	U
Surface Water	10/15/2018 22:05	Chromium-51	pCi/L	-5.35E+00	1.75E+01		U
Surface Water	10/15/2018 22:05	Cobalt-57	pCi/L	-1.75E-01	1.11E+00		U
Surface Water	10/15/2018 22:05	Cobalt-58	pCi/L	5.27E-01	1.38E+00	1.50E+01	U
Surface Water	10/15/2018 22:05	Cobalt-60	pCi/L	-7.83E-02	1.24E+00	1.50E+01	U
Surface Water	10/15/2018 22:05	Iodine-131	pCi/L	1.69E+00	8.14E+00		U
Surface Water	10/15/2018 22:05	Iron-59	pCi/L	3.76E-01	3.27E+00	3.00E+01	U
Surface Water	10/15/2018 22:05	Lanthanum-140	pCi/L	4.03E-01	4.61E+00	1.50E+01	U

Surface Water	10/15/2018 22:05	Manganese-54	pCi/L	5.10E-01	1.23E+00	1.50E+01	U
Surface Water	10/15/2018 22:05	Niobium-95	pCi/L	2.09E+00	1.31E+00	1.50E+01	UI
Surface Water	10/15/2018 22:05	Potassium-40	pCi/L	6.44E+00	1.19E+01		U
Surface Water	10/15/2018 22:05	Ruthenium-103	pCi/L	4.64E-01	1.67E+00		U
Surface Water	10/15/2018 22:05	Ruthenium-106	pCi/L	-6.24E+00	1.11E+01		U
Surface Water	10/15/2018 22:05	Selenium-75	pCi/L	-2.77E-01	1.90E+00		U
Surface Water	10/15/2018 22:05	Silver-108m	pCi/L	1.87E-01	1.13E+00		U
Surface Water	10/15/2018 22:05	Silver-110m	pCi/L	6.87E-01	1.86E+00		U
Surface Water	10/15/2018 22:05	Thorium-228	pCi/L	1.31E+00	2.45E+00		U
Surface Water	10/15/2018 22:05	Zinc-65	pCi/L	-5.76E-01	2.77E+00	3.00E+01	U
Surface Water	10/15/2018 22:05	Zirconium-95	pCi/L	-7.75E-01	2.38E+00	1.50E+01	U
Surface Water	8/13/2018 10:03	Tritium	pCi/L	1.13E+04	4.31E+02	2.00E+03	
Surface Water	11/14/2018 10:41	Actinium-228	pCi/L	3.82E-01	6.33E+00		U
Surface Water	11/14/2018 10:41	Antimony-124	pCi/L	-1.56E+00	3.66E+00		U
Surface Water	11/14/2018 10:41	Antimony-125	pCi/L	-1.28E-01	3.59E+00		U
Surface Water	11/14/2018 10:41	Barium-140	pCi/L	-1.63E+01	1.26E+01	1.50E+01	U
Surface Water	11/14/2018 10:41	Beryllium-7	pCi/L	6.99E+00	1.38E+01		U
Surface Water	11/14/2018 10:41	Cerium-141	pCi/L	-4.72E+00	2.93E+00		U
Surface Water	11/14/2018 10:41	Cerium-144	pCi/L	3.66E+00	8.93E+00		U
Surface Water	11/14/2018 10:41	Cesium-134	pCi/L	9.55E-01	1.65E+00	1.50E+01	U
Surface Water	11/14/2018 10:41	Cesium-137	pCi/L	3.04E-01	1.42E+00	1.80E+01	U
Surface Water	11/14/2018 10:41	Chromium-51	pCi/L	1.27E+00	1.80E+01		U
Surface Water	11/14/2018 10:41	Cobalt-57	pCi/L	2.18E-02	1.16E+00		U
Surface Water	11/14/2018 10:41	Cobalt-58	pCi/L	7.42E-01	1.45E+00	1.50E+01	U
Surface Water	11/14/2018 10:41	Cobalt-60	pCi/L	-6.45E-01	1.36E+00	1.50E+01	U
Surface Water	11/14/2018 10:41	Iodine-131	pCi/L	-1.29E-01	7.36E+00		U
Surface Water	11/14/2018 10:41	Iron-59	pCi/L	-5.66E-03	3.63E+00	3.00E+01	U
Surface Water	11/14/2018 10:41	Lanthanum-140	pCi/L	7.22E-01	4.79E+00	1.50E+01	U
Surface Water	11/14/2018 10:41	Manganese-54	pCi/L	7.43E-02	1.31E+00	1.50E+01	U
Surface Water	11/14/2018 10:41	Niobium-95	pCi/L	-2.28E-02	1.63E+00	1.50E+01	U
Surface Water	11/14/2018 10:41	Potassium-40	pCi/L	1.51E+01	1.51E+01		UI
Surface Water	11/14/2018 10:41	Ruthenium-103	pCi/L	-5.25E-01	1.66E+00		U
Surface Water	11/14/2018 10:41	Ruthenium-106	pCi/L	3.30E+00	1.29E+01		U
Surface Water	11/14/2018 10:41	Selenium-75	pCi/L	-5.72E-01	1.90E+00		U
Surface Water	11/14/2018 10:41	Silver-108m	pCi/L	-1.90E-01	1.14E+00		U
Surface Water	11/14/2018 10:41	Silver-110m	pCi/L	-2.87E+00	1.95E+00		U
Surface Water	11/14/2018 10:41	Thorium-228	pCi/L	1.92E+00	3.01E+00		U
Surface Water	11/14/2018 10:41	Zinc-65	pCi/L	-8.01E-02	2.92E+00	3.00E+01	U
Surface Water	11/14/2018 10:41	Zirconium-95	pCi/L	8.95E-01	2.90E+00	1.50E+01	U
Surface Water	12/13/2018 10:11	Actinium-228	pCi/L	4.07E+00	5.40E+00		U
Surface Water	12/13/2018 10:11	Antimony-124	pCi/L	8.58E-01	4.30E+00		U
Surface Water	12/13/2018 10:11	Antimony-125	pCi/L	3.39E-01	3.91E+00		U
Surface Water	12/13/2018 10:11	Barium-140	pCi/L	5.81E+00	1.72E+01	1.50E+01	DLU
Surface Water	12/13/2018 10:11	Beryllium-7	pCi/L	-2.73E+00	1.47E+01		U

Surface Water	12/13/2018 10:11	Cerium-141	pCi/L	-2.65E+00	3.34E+00		U
Surface Water	12/13/2018 10:11	Cerium-144	pCi/L	-3.86E+00	9.35E+00		U
Surface Water	12/13/2018 10:11	Cesium-134	pCi/L	3.76E-01	1.67E+00	1.50E+01	U
Surface Water	12/13/2018 10:11	Cesium-137	pCi/L	-2.00E-01	1.48E+00	1.80E+01	U
Surface Water	12/13/2018 10:11	Chromium-51	pCi/L	-8.76E+00	1.84E+01		U
Surface Water	12/13/2018 10:11	Cobalt-57	pCi/L	1.28E-01	1.31E+00		U
Surface Water	12/13/2018 10:11	Cobalt-58	pCi/L	-1.62E-01	1.68E+00	1.50E+01	U
Surface Water	12/13/2018 10:11	Cobalt-60	pCi/L	6.89E-01	1.63E+00	1.50E+01	U
Surface Water	12/13/2018 10:11	Iodine-131	pCi/L	-4.35E+00	8.84E+00		U
Surface Water	12/13/2018 10:11	Iron-59	pCi/L	3.56E-01	3.88E+00	3.00E+01	U
Surface Water	12/13/2018 10:11	Lanthanum-140	pCi/L	-1.67E+00	5.38E+00	1.50E+01	U
Surface Water	12/13/2018 10:11	Manganese-54	pCi/L	4.04E-03	1.42E+00	1.50E+01	U
Surface Water	12/13/2018 10:11	Niobium-95	pCi/L	4.68E-02	1.68E+00	1.50E+01	U
Surface Water	12/13/2018 10:11	Potassium-40	pCi/L	1.19E+01	1.72E+01		U
Surface Water	12/13/2018 10:11	Ruthenium-103	pCi/L	-3.01E-01	1.84E+00		U
Surface Water	12/13/2018 10:11	Ruthenium-106	pCi/L	7.16E-01	1.31E+01		U
Surface Water	12/13/2018 10:11	Selenium-75	pCi/L	-1.12E-01	2.01E+00		U
Surface Water	12/13/2018 10:11	Silver-108m	pCi/L	-2.90E-01	1.27E+00		U
Surface Water	12/13/2018 10:11	Silver-110m	pCi/L	-8.01E-01	1.95E+00		U
Surface Water	12/13/2018 10:11	Thorium-228	pCi/L	-5.60E-01	3.13E+00		U
Surface Water	12/13/2018 10:11	Zinc-65	pCi/L	1.26E+00	3.40E+00	3.00E+01	U
Surface Water	12/13/2018 10:11	Zirconium-95	pCi/L	-5.17E-01	3.03E+00	1.50E+01	U
Surface Water	11/12/2018 22:11	Tritium	pCi/L	1.23E+04	5.89E+02	2.00E+03	

Notes:

1. LLDs are a-priori values.
2. MDCs are calculated a-posteriori values.
3. Gamma spectroscopy analysis results are calculated from a measurement using only one gamma energ
4. Air sample volumes are received in units of ft3. GEL converts the units and reports them as m3.

QUALIFIERS:

U Target isotope was analyzed for but not detected above the MDC or LLD.
UI Uncertain identification for gamma spectroscopy.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project manage
M Reported result is less than the LLD and greater than the MDC.
DL DL MDC > LLD.

Sample Data For: "SW-3"

Matrix	Collect Date	Parmname	Units	Result	MDC	LLD	Qualifier
Surface Water	1/30/2018 11:49	Actinium-228	pCi/L	-5.17E-01	6.45E+00		U
Surface Water	1/30/2018 11:49	Antimony-124	pCi/L	1.04E+00	3.43E+00		U
Surface Water	1/30/2018 11:49	Antimony-125	pCi/L	-2.13E+00	3.57E+00		U
Surface Water	1/30/2018 11:49	Barium-140	pCi/L	-2.07E+00	7.24E+00	1.50E+01	U
Surface Water	1/30/2018 11:49	Beryllium-7	pCi/L	2.51E+00	1.27E+01		U
Surface Water	1/30/2018 11:49	Cerium-141	pCi/L	5.37E-01	2.39E+00		U
Surface Water	1/30/2018 11:49	Cerium-144	pCi/L	-5.89E-01	8.77E+00		U
Surface Water	1/30/2018 11:49	Cesium-134	pCi/L	3.51E-01	1.43E+00	1.50E+01	U
Surface Water	1/30/2018 11:49	Cesium-137	pCi/L	-1.58E-01	1.29E+00	1.80E+01	U
Surface Water	1/30/2018 11:49	Chromium-51	pCi/L	1.23E+00	1.30E+01		U
Surface Water	1/30/2018 11:49	Cobalt-57	pCi/L	-5.92E-01	1.11E+00		U
Surface Water	1/30/2018 11:49	Cobalt-58	pCi/L	-1.57E+00	1.25E+00	1.50E+01	U
Surface Water	1/30/2018 11:49	Cobalt-60	pCi/L	7.15E-01	1.38E+00	1.50E+01	U
Surface Water	1/30/2018 11:49	Iodine-131	pCi/L	-1.07E+00	2.62E+00		U
Surface Water	1/30/2018 11:49	Iron-59	pCi/L	3.90E-01	2.88E+00	3.00E+01	U
Surface Water	1/30/2018 11:49	Lanthanum-140	pCi/L	-1.62E+00	2.36E+00	1.50E+01	U
Surface Water	1/30/2018 11:49	Manganese-54	pCi/L	-6.22E-02	1.34E+00	1.50E+01	U
Surface Water	1/30/2018 11:49	Niobium-95	pCi/L	-1.13E+00	1.52E+00	1.50E+01	U
Surface Water	1/30/2018 11:49	Potassium-40	pCi/L	2.81E+01	1.41E+01		
Surface Water	1/30/2018 11:49	Ruthenium-103	pCi/L	-4.74E-02	1.55E+00		U
Surface Water	1/30/2018 11:49	Ruthenium-106	pCi/L	-3.02E+00	1.21E+01		U
Surface Water	1/30/2018 11:49	Selenium-75	pCi/L	-6.29E-01	1.90E+00		U
Surface Water	1/30/2018 11:49	Silver-108m	pCi/L	-1.01E+00	1.14E+00		U
Surface Water	1/30/2018 11:49	Silver-110m	pCi/L	8.19E-02	1.78E+00		U
Surface Water	1/30/2018 11:49	Thorium-228	pCi/L	2.38E-01	2.47E+00		U
Surface Water	1/30/2018 11:49	Zinc-65	pCi/L	3.20E-01	2.73E+00	3.00E+01	U
Surface Water	1/30/2018 11:49	Zirconium-95	pCi/L	-6.60E-01	2.35E+00	1.50E+01	U
Surface Water	2/27/2018 11:02	Actinium-228	pCi/L	8.64E-01	6.47E+00		U
Surface Water	2/27/2018 11:02	Antimony-124	pCi/L	8.67E-01	3.40E+00		U
Surface Water	2/27/2018 11:02	Antimony-125	pCi/L	2.19E+00	3.84E+00		U
Surface Water	2/27/2018 11:02	Barium-140	pCi/L	1.26E-01	6.72E+00	1.50E+01	U
Surface Water	2/27/2018 11:02	Beryllium-7	pCi/L	1.72E+00	1.20E+01		U
Surface Water	2/27/2018 11:02	Cerium-141	pCi/L	7.32E-02	2.39E+00		U
Surface Water	2/27/2018 11:02	Cerium-144	pCi/L	-4.42E+00	9.01E+00		U
Surface Water	2/27/2018 11:02	Cesium-134	pCi/L	1.26E+00	1.37E+00	1.50E+01	U
Surface Water	2/27/2018 11:02	Cesium-137	pCi/L	6.31E-02	1.42E+00	1.80E+01	U
Surface Water	2/27/2018 11:02	Chromium-51	pCi/L	-1.49E+00	1.29E+01		U
Surface Water	2/27/2018 11:02	Cobalt-57	pCi/L	-6.82E-01	1.11E+00		U
Surface Water	2/27/2018 11:02	Cobalt-58	pCi/L	4.93E-01	1.24E+00	1.50E+01	U
Surface Water	2/27/2018 11:02	Cobalt-60	pCi/L	1.75E-01	1.49E+00	1.50E+01	U
Surface Water	2/27/2018 11:02	Iodine-131	pCi/L	2.07E-01	2.44E+00		U
Surface Water	2/27/2018 11:02	Iron-59	pCi/L	-2.64E-01	2.65E+00	3.00E+01	U
Surface Water	2/27/2018 11:02	Lanthanum-140	pCi/L	-1.10E+00	2.20E+00	1.50E+01	U

Surface Water	2/27/2018 11:02	Manganese-54	pCi/L	-4.19E-01	1.27E+00	1.50E+01	U
Surface Water	2/27/2018 11:02	Niobium-95	pCi/L	2.76E-01	1.42E+00	1.50E+01	U
Surface Water	2/27/2018 11:02	Potassium-40	pCi/L	9.97E+00	1.52E+01		U
Surface Water	2/27/2018 11:02	Ruthenium-103	pCi/L	2.33E-01	1.46E+00		U
Surface Water	2/27/2018 11:02	Ruthenium-106	pCi/L	-2.58E+00	1.24E+01		U
Surface Water	2/27/2018 11:02	Selenium-75	pCi/L	2.37E-01	1.84E+00		U
Surface Water	2/27/2018 11:02	Silver-108m	pCi/L	-7.50E-02	1.11E+00		U
Surface Water	2/27/2018 11:02	Silver-110m	pCi/L	-7.31E-01	1.71E+00		U
Surface Water	2/27/2018 11:02	Thorium-228	pCi/L	-2.52E-01	3.08E+00		U
Surface Water	2/27/2018 11:02	Zinc-65	pCi/L	8.27E-01	2.59E+00	3.00E+01	U
Surface Water	2/27/2018 11:02	Zirconium-95	pCi/L	4.85E-01	2.54E+00	1.50E+01	U
Surface Water	3/27/2018 9:02	Actinium-228	pCi/L	1.17E+01	8.37E+00		UI
Surface Water	3/27/2018 9:02	Antimony-124	pCi/L	-2.00E-01	4.94E+00		U
Surface Water	3/27/2018 9:02	Antimony-125	pCi/L	2.24E+00	4.70E+00		U
Surface Water	3/27/2018 9:02	Barium-140	pCi/L	-2.32E+00	8.26E+00	1.50E+01	U
Surface Water	3/27/2018 9:02	Beryllium-7	pCi/L	6.25E+00	1.56E+01		U
Surface Water	3/27/2018 9:02	Cerium-141	pCi/L	3.98E-01	2.89E+00		U
Surface Water	3/27/2018 9:02	Cerium-144	pCi/L	7.26E-01	1.15E+01		U
Surface Water	3/27/2018 9:02	Cesium-134	pCi/L	1.28E-01	1.91E+00	1.50E+01	U
Surface Water	3/27/2018 9:02	Cesium-137	pCi/L	4.11E-01	1.82E+00	1.80E+01	U
Surface Water	3/27/2018 9:02	Chromium-51	pCi/L	-5.70E-01	1.62E+01		U
Surface Water	3/27/2018 9:02	Cobalt-57	pCi/L	3.02E-01	1.44E+00		U
Surface Water	3/27/2018 9:02	Cobalt-58	pCi/L	-6.42E-01	1.74E+00	1.50E+01	U
Surface Water	3/27/2018 9:02	Cobalt-60	pCi/L	3.06E-01	2.14E+00	1.50E+01	U
Surface Water	3/27/2018 9:02	Iodine-131	pCi/L	1.17E+00	3.18E+00		U
Surface Water	3/27/2018 9:02	Iron-59	pCi/L	-1.31E-01	3.90E+00	3.00E+01	U
Surface Water	3/27/2018 9:02	Lanthanum-140	pCi/L	9.09E-01	3.59E+00	1.50E+01	U
Surface Water	3/27/2018 9:02	Manganese-54	pCi/L	9.04E-02	1.79E+00	1.50E+01	U
Surface Water	3/27/2018 9:02	Niobium-95	pCi/L	-6.35E-01	1.71E+00	1.50E+01	U
Surface Water	3/27/2018 9:02	Potassium-40	pCi/L	1.79E+01	1.96E+01		U
Surface Water	3/27/2018 9:02	Ruthenium-103	pCi/L	-1.29E+00	1.72E+00		U
Surface Water	3/27/2018 9:02	Ruthenium-106	pCi/L	-8.73E+00	1.42E+01		U
Surface Water	3/27/2018 9:02	Selenium-75	pCi/L	-2.23E+00	2.33E+00		U
Surface Water	3/27/2018 9:02	Silver-108m	pCi/L	3.25E-01	1.55E+00		U
Surface Water	3/27/2018 9:02	Silver-110m	pCi/L	-2.23E-03	2.53E+00		U
Surface Water	3/27/2018 9:02	Thorium-228	pCi/L	-1.99E+00	3.65E+00		U
Surface Water	3/27/2018 9:02	Zinc-65	pCi/L	-5.30E-01	3.59E+00	3.00E+01	U
Surface Water	3/27/2018 9:02	Zirconium-95	pCi/L	-3.13E-02	3.26E+00	1.50E+01	U
Surface Water	4/24/2018 11:15	Actinium-228	pCi/L	-3.71E+00	6.85E+00		U
Surface Water	4/24/2018 11:15	Antimony-124	pCi/L	1.96E+00	3.48E+00		U
Surface Water	4/24/2018 11:15	Antimony-125	pCi/L	6.38E-01	3.95E+00		U
Surface Water	4/24/2018 11:15	Barium-140	pCi/L	5.07E+00	8.05E+00	1.50E+01	U
Surface Water	4/24/2018 11:15	Beryllium-7	pCi/L	2.64E+00	1.32E+01		U
Surface Water	4/24/2018 11:15	Cerium-141	pCi/L	-1.22E+00	2.86E+00		U

Surface Water	4/24/2018 11:15	Cerium-144	pCi/L	-1.49E+00	1.05E+01		U
Surface Water	4/24/2018 11:15	Cesium-134	pCi/L	-2.89E-01	1.39E+00	1.50E+01	U
Surface Water	4/24/2018 11:15	Cesium-137	pCi/L	4.18E-01	1.64E+00	1.80E+01	U
Surface Water	4/24/2018 11:15	Chromium-51	pCi/L	1.59E+00	1.39E+01		U
Surface Water	4/24/2018 11:15	Cobalt-57	pCi/L	-4.35E-01	1.38E+00		U
Surface Water	4/24/2018 11:15	Cobalt-58	pCi/L	-6.35E-01	1.43E+00	1.50E+01	U
Surface Water	4/24/2018 11:15	Cobalt-60	pCi/L	5.59E-01	1.68E+00	1.50E+01	U
Surface Water	4/24/2018 11:15	Iodine-131	pCi/L	2.48E-01	2.61E+00		U
Surface Water	4/24/2018 11:15	Iron-59	pCi/L	9.58E-01	2.68E+00	3.00E+01	U
Surface Water	4/24/2018 11:15	Lanthanum-140	pCi/L	-9.86E-01	2.16E+00	1.50E+01	U
Surface Water	4/24/2018 11:15	Manganese-54	pCi/L	9.82E-01	1.47E+00	1.50E+01	U
Surface Water	4/24/2018 11:15	Niobium-95	pCi/L	6.15E-01	1.46E+00	1.50E+01	U
Surface Water	4/24/2018 11:15	Potassium-40	pCi/L	1.24E+01	1.34E+01		U
Surface Water	4/24/2018 11:15	Ruthenium-103	pCi/L	-8.85E-01	1.45E+00		U
Surface Water	4/24/2018 11:15	Ruthenium-106	pCi/L	2.53E+00	1.31E+01		U
Surface Water	4/24/2018 11:15	Selenium-75	pCi/L	4.35E-01	2.06E+00		U
Surface Water	4/24/2018 11:15	Silver-108m	pCi/L	-3.95E-02	1.35E+00		U
Surface Water	4/24/2018 11:15	Silver-110m	pCi/L	4.83E-01	2.00E+00		U
Surface Water	4/24/2018 11:15	Thorium-228	pCi/L	1.31E+00	3.20E+00		U
Surface Water	4/24/2018 11:15	Zinc-65	pCi/L	-5.76E-01	2.78E+00	3.00E+01	U
Surface Water	4/24/2018 11:15	Zirconium-95	pCi/L	-7.27E-02	2.58E+00	1.50E+01	U
Surface Water	2/27/2018 10:25	Tritium	pCi/L	6.02E+01	4.43E+02	2.00E+03	U
Surface Water	5/29/2018 13:03	Actinium-228	pCi/L	-2.26E+00	7.88E+00		U
Surface Water	5/29/2018 13:03	Antimony-124	pCi/L	-2.90E-01	5.15E+00		U
Surface Water	5/29/2018 13:03	Antimony-125	pCi/L	6.35E-01	4.49E+00		U
Surface Water	5/29/2018 13:03	Barium-140	pCi/L	5.47E+00	9.12E+00	1.50E+01	U
Surface Water	5/29/2018 13:03	Beryllium-7	pCi/L	8.34E+00	1.55E+01		U
Surface Water	5/29/2018 13:03	Cerium-141	pCi/L	-2.89E+00	2.71E+00		U
Surface Water	5/29/2018 13:03	Cerium-144	pCi/L	-1.32E+00	1.00E+01		U
Surface Water	5/29/2018 13:03	Cesium-134	pCi/L	7.40E-01	2.04E+00	1.50E+01	U
Surface Water	5/29/2018 13:03	Cesium-137	pCi/L	2.23E-01	1.91E+00	1.80E+01	U
Surface Water	5/29/2018 13:03	Chromium-51	pCi/L	4.96E+00	1.63E+01		U
Surface Water	5/29/2018 13:03	Cobalt-57	pCi/L	-5.19E-01	1.30E+00		U
Surface Water	5/29/2018 13:03	Cobalt-58	pCi/L	-1.47E+00	1.51E+00	1.50E+01	U
Surface Water	5/29/2018 13:03	Cobalt-60	pCi/L	2.76E-01	1.96E+00	1.50E+01	U
Surface Water	5/29/2018 13:03	Iodine-131	pCi/L	2.40E-01	3.22E+00		U
Surface Water	5/29/2018 13:03	Iron-59	pCi/L	-2.02E+00	3.54E+00	3.00E+01	U
Surface Water	5/29/2018 13:03	Lanthanum-140	pCi/L	-2.93E-01	3.33E+00	1.50E+01	U
Surface Water	5/29/2018 13:03	Manganese-54	pCi/L	-2.09E-01	1.60E+00	1.50E+01	U
Surface Water	5/29/2018 13:03	Niobium-95	pCi/L	-2.28E-01	1.71E+00	1.50E+01	U
Surface Water	5/29/2018 13:03	Potassium-40	pCi/L	4.58E+00	1.71E+01		U
Surface Water	5/29/2018 13:03	Ruthenium-103	pCi/L	-4.71E-01	1.70E+00		U
Surface Water	5/29/2018 13:03	Ruthenium-106	pCi/L	-2.22E+00	1.58E+01		U
Surface Water	5/29/2018 13:03	Selenium-75	pCi/L	-2.81E-01	2.10E+00		U

Surface Water	5/29/2018 13:03	Silver-108m	pCi/L	-2.62E-01	1.44E+00		U
Surface Water	5/29/2018 13:03	Silver-110m	pCi/L	-2.19E-01	2.39E+00		U
Surface Water	5/29/2018 13:03	Thorium-228	pCi/L	4.32E+00	3.75E+00		UI
Surface Water	5/29/2018 13:03	Zinc-65	pCi/L	2.80E-01	4.00E+00	3.00E+01	U
Surface Water	5/29/2018 13:03	Zirconium-95	pCi/L	6.31E-01	3.14E+00	1.50E+01	U
Surface Water	6/26/2018 13:48	Actinium-228	pCi/L	-6.02E-01	5.97E+00		U
Surface Water	6/26/2018 13:48	Antimony-124	pCi/L	5.21E-02	2.85E+00		U
Surface Water	6/26/2018 13:48	Antimony-125	pCi/L	2.96E+00	3.91E+00		U
Surface Water	6/26/2018 13:48	Barium-140	pCi/L	1.64E+00	5.54E+00	1.50E+01	U
Surface Water	6/26/2018 13:48	Beryllium-7	pCi/L	1.19E+00	1.10E+01		U
Surface Water	6/26/2018 13:48	Cerium-141	pCi/L	-1.21E+00	2.16E+00		U
Surface Water	6/26/2018 13:48	Cerium-144	pCi/L	-6.49E+00	8.66E+00		U
Surface Water	6/26/2018 13:48	Cesium-134	pCi/L	7.04E-02	1.47E+00	1.50E+01	U
Surface Water	6/26/2018 13:48	Cesium-137	pCi/L	2.51E-01	1.29E+00	1.80E+01	U
Surface Water	6/26/2018 13:48	Chromium-51	pCi/L	5.89E+00	1.17E+01		U
Surface Water	6/26/2018 13:48	Cobalt-57	pCi/L	4.67E-02	1.14E+00		U
Surface Water	6/26/2018 13:48	Cobalt-58	pCi/L	3.84E-01	1.18E+00	1.50E+01	U
Surface Water	6/26/2018 13:48	Cobalt-60	pCi/L	3.54E-01	1.20E+00	1.50E+01	U
Surface Water	6/26/2018 13:48	Iodine-131	pCi/L	-4.86E-01	1.58E+00		U
Surface Water	6/26/2018 13:48	Iron-59	pCi/L	5.86E-02	2.55E+00	3.00E+01	U
Surface Water	6/26/2018 13:48	Lanthanum-140	pCi/L	-1.31E-01	1.81E+00	1.50E+01	U
Surface Water	6/26/2018 13:48	Manganese-54	pCi/L	1.00E+00	1.37E+00	1.50E+01	U
Surface Water	6/26/2018 13:48	Niobium-95	pCi/L	3.27E-01	1.22E+00	1.50E+01	U
Surface Water	6/26/2018 13:48	Potassium-40	pCi/L	3.11E+00	1.23E+01		U
Surface Water	6/26/2018 13:48	Ruthenium-103	pCi/L	-6.32E-01	1.25E+00		U
Surface Water	6/26/2018 13:48	Ruthenium-106	pCi/L	-1.90E+00	1.13E+01		U
Surface Water	6/26/2018 13:48	Selenium-75	pCi/L	3.55E-01	1.79E+00		U
Surface Water	6/26/2018 13:48	Silver-108m	pCi/L	1.21E+00	1.16E+00		UI
Surface Water	6/26/2018 13:48	Silver-110m	pCi/L	-2.86E-01	1.52E+00		U
Surface Water	6/26/2018 13:48	Thorium-228	pCi/L	5.19E-01	2.86E+00		U
Surface Water	6/26/2018 13:48	Zinc-65	pCi/L	-4.39E-01	2.70E+00	3.00E+01	U
Surface Water	6/26/2018 13:48	Zirconium-95	pCi/L	4.83E-01	2.23E+00	1.50E+01	U
Surface Water	7/31/2018 10:50	Actinium-228	pCi/L	8.28E-01	1.39E+01		U
Surface Water	7/31/2018 10:50	Antimony-124	pCi/L	-1.78E+00	4.31E+00		U
Surface Water	7/31/2018 10:50	Antimony-125	pCi/L	2.73E-02	6.81E+00		U
Surface Water	7/31/2018 10:50	Barium-140	pCi/L	2.30E+01	1.00E+01	1.50E+01	UI
Surface Water	7/31/2018 10:50	Beryllium-7	pCi/L	4.87E+00	2.45E+01		U
Surface Water	7/31/2018 10:50	Cerium-141	pCi/L	4.43E+00	4.73E+00		U
Surface Water	7/31/2018 10:50	Cerium-144	pCi/L	-8.45E+00	1.73E+01		U
Surface Water	7/31/2018 10:50	Cesium-134	pCi/L	-1.23E+00	3.07E+00	1.50E+01	U
Surface Water	7/31/2018 10:50	Cesium-137	pCi/L	3.38E-01	3.00E+00	1.80E+01	U
Surface Water	7/31/2018 10:50	Chromium-51	pCi/L	-4.27E+00	2.26E+01		U
Surface Water	7/31/2018 10:50	Cobalt-57	pCi/L	-2.55E-01	2.41E+00		U
Surface Water	7/31/2018 10:50	Cobalt-58	pCi/L	-3.02E-01	2.85E+00	1.50E+01	U

Surface Water	7/31/2018 10:50	Cobalt-60	pCi/L	5.49E+00	4.18E+00	1.50E+01	UI
Surface Water	7/31/2018 10:50	Iodine-131	pCi/L	-8.87E-02	3.39E+00		U
Surface Water	7/31/2018 10:50	Iron-59	pCi/L	-1.64E+00	4.18E+00	3.00E+01	U
Surface Water	7/31/2018 10:50	Lanthanum-140	pCi/L	-1.07E-01	3.87E+00	1.50E+01	U
Surface Water	7/31/2018 10:50	Manganese-54	pCi/L	2.75E-01	2.99E+00	1.50E+01	U
Surface Water	7/31/2018 10:50	Niobium-95	pCi/L	1.17E+00	2.81E+00	1.50E+01	U
Surface Water	7/31/2018 10:50	Potassium-40	pCi/L	2.40E+00	3.28E+01		U
Surface Water	7/31/2018 10:50	Ruthenium-103	pCi/L	-6.30E-01	2.67E+00		U
Surface Water	7/31/2018 10:50	Ruthenium-106	pCi/L	-1.03E+01	2.50E+01		U
Surface Water	7/31/2018 10:50	Selenium-75	pCi/L	1.32E+00	3.82E+00		U
Surface Water	7/31/2018 10:50	Silver-108m	pCi/L	-2.11E-01	2.33E+00		U
Surface Water	7/31/2018 10:50	Silver-110m	pCi/L	6.58E-01	3.95E+00		U
Surface Water	7/31/2018 10:50	Thorium-228	pCi/L	1.44E+00	5.63E+00		U
Surface Water	7/31/2018 10:50	Zinc-65	pCi/L	8.39E-01	6.38E+00	3.00E+01	U
Surface Water	7/31/2018 10:50	Zirconium-95	pCi/L	2.10E+00	5.09E+00	1.50E+01	U
Surface Water	5/26/2018 0:31	Tritium	pCi/L	-8.72E+01	5.89E+02	2.00E+03	U
Surface Water	8/28/2018 12:17	Actinium-228	pCi/L	-3.78E+00	6.12E+00		U
Surface Water	8/28/2018 12:17	Antimony-124	pCi/L	4.14E-01	3.09E+00		U
Surface Water	8/28/2018 12:17	Antimony-125	pCi/L	3.79E-01	3.25E+00		U
Surface Water	8/28/2018 12:17	Barium-140	pCi/L	4.08E-01	6.63E+00	1.50E+01	U
Surface Water	8/28/2018 12:17	Beryllium-7	pCi/L	3.73E+00	1.01E+01		U
Surface Water	8/28/2018 12:17	Cerium-141	pCi/L	-5.84E-01	2.32E+00		U
Surface Water	8/28/2018 12:17	Cerium-144	pCi/L	-4.92E-01	8.29E+00		U
Surface Water	8/28/2018 12:17	Cesium-134	pCi/L	1.15E+00	1.41E+00	1.50E+01	U
Surface Water	8/28/2018 12:17	Cesium-137	pCi/L	-4.50E-01	1.21E+00	1.80E+01	U
Surface Water	8/28/2018 12:17	Chromium-51	pCi/L	-3.94E+00	1.20E+01		U
Surface Water	8/28/2018 12:17	Cobalt-57	pCi/L	-1.97E-01	1.12E+00		U
Surface Water	8/28/2018 12:17	Cobalt-58	pCi/L	-5.68E-01	1.14E+00	1.50E+01	U
Surface Water	8/28/2018 12:17	Cobalt-60	pCi/L	3.63E-01	1.49E+00	1.50E+01	U
Surface Water	8/28/2018 12:17	Iodine-131	pCi/L	-2.67E-01	2.43E+00		U
Surface Water	8/28/2018 12:17	Iron-59	pCi/L	9.60E-01	2.64E+00	3.00E+01	U
Surface Water	8/28/2018 12:17	Lanthanum-140	pCi/L	-4.66E-01	1.93E+00	1.50E+01	U
Surface Water	8/28/2018 12:17	Manganese-54	pCi/L	4.46E-01	1.35E+00	1.50E+01	U
Surface Water	8/28/2018 12:17	Niobium-95	pCi/L	4.26E-01	1.36E+00	1.50E+01	U
Surface Water	8/28/2018 12:17	Potassium-40	pCi/L	1.87E+01	1.24E+01		UI
Surface Water	8/28/2018 12:17	Ruthenium-103	pCi/L	-5.88E-01	1.24E+00		U
Surface Water	8/28/2018 12:17	Ruthenium-106	pCi/L	3.37E+00	1.15E+01		U
Surface Water	8/28/2018 12:17	Selenium-75	pCi/L	-4.07E-01	1.65E+00		U
Surface Water	8/28/2018 12:17	Silver-108m	pCi/L	1.81E-01	1.07E+00		U
Surface Water	8/28/2018 12:17	Silver-110m	pCi/L	1.60E-01	1.65E+00		U
Surface Water	8/28/2018 12:17	Thorium-228	pCi/L	3.51E-01	2.85E+00		U
Surface Water	8/28/2018 12:17	Zinc-65	pCi/L	9.01E-01	2.81E+00	3.00E+01	U
Surface Water	8/28/2018 12:17	Zirconium-95	pCi/L	4.41E-01	2.24E+00	1.50E+01	U
Surface Water	9/25/2018 11:45	Actinium-228	pCi/L	-6.53E+00	7.43E+00		U

Surface Water	9/25/2018 11:45	Antimony-124	pCi/L	-1.18E+00	2.91E+00		U
Surface Water	9/25/2018 11:45	Antimony-125	pCi/L	-1.98E-01	3.72E+00		U
Surface Water	9/25/2018 11:45	Barium-140	pCi/L	7.60E-02	7.94E+00	1.50E+01	U
Surface Water	9/25/2018 11:45	Beryllium-7	pCi/L	-3.20E+00	1.25E+01		U
Surface Water	9/25/2018 11:45	Cerium-141	pCi/L	-1.62E+00	2.68E+00		U
Surface Water	9/25/2018 11:45	Cerium-144	pCi/L	4.07E-01	9.12E+00		U
Surface Water	9/25/2018 11:45	Cesium-134	pCi/L	2.50E-01	1.50E+00	1.50E+01	U
Surface Water	9/25/2018 11:45	Cesium-137	pCi/L	1.16E+00	1.37E+00	1.80E+01	U
Surface Water	9/25/2018 11:45	Chromium-51	pCi/L	5.83E+00	1.48E+01		U
Surface Water	9/25/2018 11:45	Cobalt-57	pCi/L	3.40E-01	1.24E+00		U
Surface Water	9/25/2018 11:45	Cobalt-58	pCi/L	4.10E-01	1.45E+00	1.50E+01	U
Surface Water	9/25/2018 11:45	Cobalt-60	pCi/L	2.53E-01	1.48E+00	1.50E+01	U
Surface Water	9/25/2018 11:45	Iodine-131	pCi/L	-3.18E-01	3.09E+00		U
Surface Water	9/25/2018 11:45	Iron-59	pCi/L	1.03E+00	3.19E+00	3.00E+01	U
Surface Water	9/25/2018 11:45	Lanthanum-140	pCi/L	-1.10E+00	2.75E+00	1.50E+01	U
Surface Water	9/25/2018 11:45	Manganese-54	pCi/L	-1.49E+00	1.20E+00	1.50E+01	U
Surface Water	9/25/2018 11:45	Niobium-95	pCi/L	8.64E-01	1.46E+00	1.50E+01	U
Surface Water	9/25/2018 11:45	Potassium-40	pCi/L	6.06E+00	1.45E+01		U
Surface Water	9/25/2018 11:45	Ruthenium-103	pCi/L	-1.27E-01	1.51E+00		U
Surface Water	9/25/2018 11:45	Ruthenium-106	pCi/L	-1.66E+00	1.20E+01		U
Surface Water	9/25/2018 11:45	Selenium-75	pCi/L	1.19E+00	1.93E+00		U
Surface Water	9/25/2018 11:45	Silver-108m	pCi/L	-7.48E-02	1.28E+00		U
Surface Water	9/25/2018 11:45	Silver-110m	pCi/L	7.53E-01	2.04E+00		U
Surface Water	9/25/2018 11:45	Thorium-228	pCi/L	1.01E+00	2.51E+00		U
Surface Water	9/25/2018 11:45	Zinc-65	pCi/L	-4.93E-01	2.78E+00	3.00E+01	U
Surface Water	9/25/2018 11:45	Zirconium-95	pCi/L	1.12E+00	2.83E+00	1.50E+01	U
Surface Water	10/30/2018 12:07	Actinium-228	pCi/L	-5.49E+00	6.74E+00		U
Surface Water	10/30/2018 12:07	Antimony-124	pCi/L	1.76E+00	3.71E+00		U
Surface Water	10/30/2018 12:07	Antimony-125	pCi/L	-5.65E+00	4.04E+00		U
Surface Water	10/30/2018 12:07	Barium-140	pCi/L	-1.63E+00	7.12E+00	1.50E+01	U
Surface Water	10/30/2018 12:07	Beryllium-7	pCi/L	2.92E+00	1.35E+01		U
Surface Water	10/30/2018 12:07	Cerium-141	pCi/L	-3.23E+00	2.74E+00		U
Surface Water	10/30/2018 12:07	Cerium-144	pCi/L	-2.25E+00	1.00E+01		U
Surface Water	10/30/2018 12:07	Cesium-134	pCi/L	-2.02E-01	1.45E+00	1.50E+01	U
Surface Water	10/30/2018 12:07	Cesium-137	pCi/L	7.80E-02	1.44E+00	1.80E+01	U
Surface Water	10/30/2018 12:07	Chromium-51	pCi/L	-6.64E+00	1.34E+01		U
Surface Water	10/30/2018 12:07	Cobalt-57	pCi/L	-2.47E-01	1.32E+00		U
Surface Water	10/30/2018 12:07	Cobalt-58	pCi/L	-8.11E-01	1.33E+00	1.50E+01	U
Surface Water	10/30/2018 12:07	Cobalt-60	pCi/L	-2.51E-01	1.39E+00	1.50E+01	U
Surface Water	10/30/2018 12:07	Iodine-131	pCi/L	3.37E-02	2.69E+00		U
Surface Water	10/30/2018 12:07	Iron-59	pCi/L	-1.05E+00	3.34E+00	3.00E+01	U
Surface Water	10/30/2018 12:07	Lanthanum-140	pCi/L	2.54E+00	2.55E+00	1.50E+01	U
Surface Water	10/30/2018 12:07	Manganese-54	pCi/L	4.25E-01	1.54E+00	1.50E+01	U
Surface Water	10/30/2018 12:07	Niobium-95	pCi/L	-1.45E+00	1.58E+00	1.50E+01	U

Surface Water	10/30/2018 12:07	Potassium-40	pCi/L	3.89E-02	2.37E+01		U
Surface Water	10/30/2018 12:07	Ruthenium-103	pCi/L	-4.27E-01	1.54E+00		U
Surface Water	10/30/2018 12:07	Ruthenium-106	pCi/L	-3.31E+00	1.36E+01		U
Surface Water	10/30/2018 12:07	Selenium-75	pCi/L	-1.48E-01	1.94E+00		U
Surface Water	10/30/2018 12:07	Silver-108m	pCi/L	3.31E-01	1.36E+00		U
Surface Water	10/30/2018 12:07	Silver-110m	pCi/L	-2.71E-01	1.75E+00		U
Surface Water	10/30/2018 12:07	Thorium-228	pCi/L	1.24E+00	2.67E+00		U
Surface Water	10/30/2018 12:07	Zinc-65	pCi/L	-1.05E+00	3.06E+00	3.00E+01	U
Surface Water	10/30/2018 12:07	Zirconium-95	pCi/L	6.69E-01	2.58E+00	1.50E+01	U
Surface Water	8/28/2018 11:17	Tritium	pCi/L	1.91E+01	4.13E+02	2.00E+03	U
Surface Water	11/27/2018 13:31	Actinium-228	pCi/L	3.82E-01	6.34E+00		U
Surface Water	11/27/2018 13:31	Antimony-124	pCi/L	-1.73E+00	2.80E+00		U
Surface Water	11/27/2018 13:31	Antimony-125	pCi/L	-9.72E-02	3.51E+00		U
Surface Water	11/27/2018 13:31	Barium-140	pCi/L	-6.14E-01	7.19E+00	1.50E+01	U
Surface Water	11/27/2018 13:31	Beryllium-7	pCi/L	3.89E+00	1.19E+01		U
Surface Water	11/27/2018 13:31	Cerium-141	pCi/L	2.42E+00	2.35E+00		UI
Surface Water	11/27/2018 13:31	Cerium-144	pCi/L	1.24E+00	9.15E+00		U
Surface Water	11/27/2018 13:31	Cesium-134	pCi/L	-3.63E-01	1.39E+00	1.50E+01	U
Surface Water	11/27/2018 13:31	Cesium-137	pCi/L	4.16E-01	1.42E+00	1.80E+01	U
Surface Water	11/27/2018 13:31	Chromium-51	pCi/L	4.05E+00	1.30E+01		U
Surface Water	11/27/2018 13:31	Cobalt-57	pCi/L	1.54E-01	1.15E+00		U
Surface Water	11/27/2018 13:31	Cobalt-58	pCi/L	2.97E-01	1.31E+00	1.50E+01	U
Surface Water	11/27/2018 13:31	Cobalt-60	pCi/L	5.81E-01	1.43E+00	1.50E+01	U
Surface Water	11/27/2018 13:31	Iodine-131	pCi/L	1.34E+00	2.55E+00		U
Surface Water	11/27/2018 13:31	Iron-59	pCi/L	-4.01E-01	2.83E+00	3.00E+01	U
Surface Water	11/27/2018 13:31	Lanthanum-140	pCi/L	-5.12E-01	2.07E+00	1.50E+01	U
Surface Water	11/27/2018 13:31	Manganese-54	pCi/L	3.59E-01	1.31E+00	1.50E+01	U
Surface Water	11/27/2018 13:31	Niobium-95	pCi/L	-5.44E-01	1.27E+00	1.50E+01	U
Surface Water	11/27/2018 13:31	Potassium-40	pCi/L	4.27E+00	1.43E+01		U
Surface Water	11/27/2018 13:31	Ruthenium-103	pCi/L	3.46E-01	1.38E+00		U
Surface Water	11/27/2018 13:31	Ruthenium-106	pCi/L	3.34E+00	1.19E+01		U
Surface Water	11/27/2018 13:31	Selenium-75	pCi/L	-5.85E-02	1.76E+00		U
Surface Water	11/27/2018 13:31	Silver-108m	pCi/L	-1.95E-01	1.17E+00		U
Surface Water	11/27/2018 13:31	Silver-110m	pCi/L	-7.00E-02	1.80E+00		U
Surface Water	11/27/2018 13:31	Thorium-228	pCi/L	3.55E+00	3.01E+00		UI
Surface Water	11/27/2018 13:31	Zinc-65	pCi/L	2.48E-01	2.83E+00	3.00E+01	U
Surface Water	11/27/2018 13:31	Zirconium-95	pCi/L	8.66E-01	2.45E+00	1.50E+01	U
Surface Water	12/25/2018 11:58	Actinium-228	pCi/L	7.33E+00	6.53E+00		UI
Surface Water	12/25/2018 11:58	Antimony-124	pCi/L	-5.63E-01	4.21E+00		U
Surface Water	12/25/2018 11:58	Antimony-125	pCi/L	-5.48E-02	4.67E+00		U
Surface Water	12/25/2018 11:58	Barium-140	pCi/L	5.62E+00	1.05E+01	1.50E+01	U
Surface Water	12/25/2018 11:58	Beryllium-7	pCi/L	-2.00E+00	1.56E+01		U
Surface Water	12/25/2018 11:58	Cerium-141	pCi/L	6.32E-01	3.30E+00		U
Surface Water	12/25/2018 11:58	Cerium-144	pCi/L	-4.18E+00	1.15E+01		U

Surface Water	12/25/2018 11:58	Cesium-134	pCi/L	7.15E-01	1.90E+00	1.50E+01	U
Surface Water	12/25/2018 11:58	Cesium-137	pCi/L	-5.85E-01	1.79E+00	1.80E+01	U
Surface Water	12/25/2018 11:58	Chromium-51	pCi/L	2.20E+00	1.66E+01		U
Surface Water	12/25/2018 11:58	Cobalt-57	pCi/L	8.95E-02	1.57E+00		U
Surface Water	12/25/2018 11:58	Cobalt-58	pCi/L	-4.31E-01	1.70E+00	1.50E+01	U
Surface Water	12/25/2018 11:58	Cobalt-60	pCi/L	-2.37E-01	1.82E+00	1.50E+01	U
Surface Water	12/25/2018 11:58	Iodine-131	pCi/L	3.63E+00	4.14E+00		U
Surface Water	12/25/2018 11:58	Iron-59	pCi/L	1.19E+00	4.04E+00	3.00E+01	U
Surface Water	12/25/2018 11:58	Lanthanum-140	pCi/L	-1.41E+00	3.00E+00	1.50E+01	U
Surface Water	12/25/2018 11:58	Manganese-54	pCi/L	-2.74E-01	1.71E+00	1.50E+01	U
Surface Water	12/25/2018 11:58	Niobium-95	pCi/L	8.10E-04	1.93E+00	1.50E+01	U
Surface Water	12/25/2018 11:58	Potassium-40	pCi/L	7.34E+00	1.72E+01		U
Surface Water	12/25/2018 11:58	Ruthenium-103	pCi/L	-3.41E-01	1.97E+00		U
Surface Water	12/25/2018 11:58	Ruthenium-106	pCi/L	-6.46E+00	1.44E+01		U
Surface Water	12/25/2018 11:58	Selenium-75	pCi/L	-1.01E-01	2.17E+00		U
Surface Water	12/25/2018 11:58	Silver-108m	pCi/L	4.42E-01	1.58E+00		U
Surface Water	12/25/2018 11:58	Silver-110m	pCi/L	8.93E-01	2.47E+00		U
Surface Water	12/25/2018 11:58	Thorium-228	pCi/L	-8.49E-01	3.53E+00		U
Surface Water	12/25/2018 11:58	Zinc-65	pCi/L	-4.06E+00	3.44E+00	3.00E+01	U
Surface Water	12/25/2018 11:58	Zirconium-95	pCi/L	-6.67E-01	2.91E+00	1.50E+01	U
Surface Water	11/27/2018 12:02	Tritium	pCi/L	1.80E+02	4.43E+02	2.00E+03	U

Notes:

1. LLDs are a-priori values.
2. MDCs are calculated a-posteriori values.
3. Gamma spectroscopy analysis results are calculated from a measurement using only one gamma energ
4. Air sample volumes are received in units of ft3. GEL converts the units and reports them as m3.

QUALIFIERS:

U Target isotope was analyzed for but not detected above the MDC or LLD.
UI Uncertain identification for gamma spectroscopy.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project manage
M Reported result is less than the LLD and greater than the MDC.
DL DL MDC > LLD.

Sample Data For: "SW-4"

Matrix	Collect Date	Parmname	Units	Result	MDC	LLD	Qualifier
Surface Water	1/30/2018 10:30	Actinium-228	pCi/L	-5.22E+00	7.42E+00		U

Surface Water	1/30/2018 10:30	Antimony-124	pCi/L	1.72E+00	3.90E+00		U
Surface Water	1/30/2018 10:30	Antimony-125	pCi/L	-8.00E-01	3.72E+00		U
Surface Water	1/30/2018 10:30	Barium-140	pCi/L	5.17E+00	8.32E+00	1.50E+01	U
Surface Water	1/30/2018 10:30	Beryllium-7	pCi/L	4.11E+00	1.23E+01		U
Surface Water	1/30/2018 10:30	Cerium-141	pCi/L	-1.52E+00	2.49E+00		U
Surface Water	1/30/2018 10:30	Cerium-144	pCi/L	5.12E+00	9.50E+00		U
Surface Water	1/30/2018 10:30	Cesium-134	pCi/L	-3.76E-01	1.59E+00	1.50E+01	U
Surface Water	1/30/2018 10:30	Cesium-137	pCi/L	1.23E+00	1.76E+00	1.80E+01	U
Surface Water	1/30/2018 10:30	Chromium-51	pCi/L	3.87E+00	1.45E+01		U
Surface Water	1/30/2018 10:30	Cobalt-57	pCi/L	1.27E-02	1.22E+00		U
Surface Water	1/30/2018 10:30	Cobalt-58	pCi/L	-3.42E-01	1.44E+00	1.50E+01	U
Surface Water	1/30/2018 10:30	Cobalt-60	pCi/L	4.58E-01	1.53E+00	1.50E+01	U
Surface Water	1/30/2018 10:30	Iodine-131	pCi/L	-2.17E-01	2.73E+00		U
Surface Water	1/30/2018 10:30	Iron-59	pCi/L	-1.89E-01	2.87E+00	3.00E+01	U
Surface Water	1/30/2018 10:30	Lanthanum-140	pCi/L	4.11E-01	3.01E+00	1.50E+01	U
Surface Water	1/30/2018 10:30	Manganese-54	pCi/L	-4.14E-01	1.38E+00	1.50E+01	U
Surface Water	1/30/2018 10:30	Niobium-95	pCi/L	5.95E-01	1.52E+00	1.50E+01	U
Surface Water	1/30/2018 10:30	Potassium-40	pCi/L	1.06E+01	1.58E+01		U
Surface Water	1/30/2018 10:30	Ruthenium-103	pCi/L	1.51E-01	1.45E+00		U
Surface Water	1/30/2018 10:30	Ruthenium-106	pCi/L	-1.30E+00	1.24E+01		U
Surface Water	1/30/2018 10:30	Selenium-75	pCi/L	-4.49E-01	1.84E+00		U
Surface Water	1/30/2018 10:30	Silver-108m	pCi/L	1.47E-01	1.27E+00		U
Surface Water	1/30/2018 10:30	Silver-110m	pCi/L	1.80E-01	2.01E+00		U
Surface Water	1/30/2018 10:30	Thorium-228	pCi/L	2.12E+00	2.60E+00		U
Surface Water	1/30/2018 10:30	Zinc-65	pCi/L	4.04E-01	3.18E+00	3.00E+01	U
Surface Water	1/30/2018 10:30	Zirconium-95	pCi/L	1.59E+00	2.83E+00	1.50E+01	U
Surface Water	2/27/2018 10:18	Actinium-228	pCi/L	3.59E+00	7.16E+00		U
Surface Water	2/27/2018 10:18	Antimony-124	pCi/L	8.47E-01	3.74E+00		U
Surface Water	2/27/2018 10:18	Antimony-125	pCi/L	1.50E+00	3.47E+00		U
Surface Water	2/27/2018 10:18	Barium-140	pCi/L	1.04E+00	7.65E+00	1.50E+01	U
Surface Water	2/27/2018 10:18	Beryllium-7	pCi/L	-6.04E-01	1.24E+01		U
Surface Water	2/27/2018 10:18	Cerium-141	pCi/L	-1.86E+00	2.63E+00		U
Surface Water	2/27/2018 10:18	Cerium-144	pCi/L	1.27E+00	1.02E+01		U
Surface Water	2/27/2018 10:18	Cesium-134	pCi/L	4.15E-01	1.55E+00	1.50E+01	U
Surface Water	2/27/2018 10:18	Cesium-137	pCi/L	1.40E+00	1.67E+00	1.80E+01	U
Surface Water	2/27/2018 10:18	Chromium-51	pCi/L	-2.28E+01	1.28E+01		U
Surface Water	2/27/2018 10:18	Cobalt-57	pCi/L	1.91E-01	1.35E+00		U
Surface Water	2/27/2018 10:18	Cobalt-58	pCi/L	1.23E-01	1.52E+00	1.50E+01	U
Surface Water	2/27/2018 10:18	Cobalt-60	pCi/L	-4.72E-01	1.37E+00	1.50E+01	U
Surface Water	2/27/2018 10:18	Iodine-131	pCi/L	3.65E-01	2.57E+00		U
Surface Water	2/27/2018 10:18	Iron-59	pCi/L	-1.01E+00	3.03E+00	3.00E+01	U
Surface Water	2/27/2018 10:18	Lanthanum-140	pCi/L	3.58E-01	2.51E+00	1.50E+01	U
Surface Water	2/27/2018 10:18	Manganese-54	pCi/L	1.50E+00	1.44E+00	1.50E+01	UI
Surface Water	2/27/2018 10:18	Niobium-95	pCi/L	5.92E-02	1.35E+00	1.50E+01	U

Surface Water	2/27/2018 10:18	Potassium-40	pCi/L	-1.44E+01	2.26E+01		U
Surface Water	2/27/2018 10:18	Ruthenium-103	pCi/L	-6.50E-01	1.45E+00		U
Surface Water	2/27/2018 10:18	Ruthenium-106	pCi/L	-3.40E+00	1.28E+01		U
Surface Water	2/27/2018 10:18	Selenium-75	pCi/L	2.59E-01	2.03E+00		U
Surface Water	2/27/2018 10:18	Silver-108m	pCi/L	2.91E-01	1.32E+00		U
Surface Water	2/27/2018 10:18	Silver-110m	pCi/L	-4.76E-01	1.93E+00		U
Surface Water	2/27/2018 10:18	Thorium-228	pCi/L	1.64E-01	3.31E+00		U
Surface Water	2/27/2018 10:18	Zinc-65	pCi/L	1.10E+00	3.13E+00	3.00E+01	U
Surface Water	2/27/2018 10:18	Zirconium-95	pCi/L	-7.78E-01	2.52E+00	1.50E+01	U
Surface Water	3/27/2018 10:07	Actinium-228	pCi/L	5.98E+00	6.45E+00		U
Surface Water	3/27/2018 10:07	Antimony-124	pCi/L	-9.55E-01	4.45E+00		U
Surface Water	3/27/2018 10:07	Antimony-125	pCi/L	-3.47E-01	4.71E+00		U
Surface Water	3/27/2018 10:07	Barium-140	pCi/L	-4.11E+00	8.92E+00	1.50E+01	U
Surface Water	3/27/2018 10:07	Beryllium-7	pCi/L	-6.93E+00	1.57E+01		U
Surface Water	3/27/2018 10:07	Cerium-141	pCi/L	3.81E-01	2.45E+00		U
Surface Water	3/27/2018 10:07	Cerium-144	pCi/L	2.49E+00	9.20E+00		U
Surface Water	3/27/2018 10:07	Cesium-134	pCi/L	-3.06E-01	2.09E+00	1.50E+01	U
Surface Water	3/27/2018 10:07	Cesium-137	pCi/L	5.78E-01	1.93E+00	1.80E+01	U
Surface Water	3/27/2018 10:07	Chromium-51	pCi/L	5.40E+00	1.56E+01		U
Surface Water	3/27/2018 10:07	Cobalt-57	pCi/L	-2.70E-01	1.15E+00		U
Surface Water	3/27/2018 10:07	Cobalt-58	pCi/L	-9.93E-01	1.76E+00	1.50E+01	U
Surface Water	3/27/2018 10:07	Cobalt-60	pCi/L	2.24E-01	2.06E+00	1.50E+01	U
Surface Water	3/27/2018 10:07	Iodine-131	pCi/L	2.66E-01	3.01E+00		U
Surface Water	3/27/2018 10:07	Iron-59	pCi/L	-1.41E+00	3.86E+00	3.00E+01	U
Surface Water	3/27/2018 10:07	Lanthanum-140	pCi/L	-8.92E-01	3.24E+00	1.50E+01	U
Surface Water	3/27/2018 10:07	Manganese-54	pCi/L	9.65E-02	1.90E+00	1.50E+01	U
Surface Water	3/27/2018 10:07	Niobium-95	pCi/L	2.20E-01	2.04E+00	1.50E+01	U
Surface Water	3/27/2018 10:07	Potassium-40	pCi/L	-7.29E+00	2.96E+01		U
Surface Water	3/27/2018 10:07	Ruthenium-103	pCi/L	-7.33E-01	1.82E+00		U
Surface Water	3/27/2018 10:07	Ruthenium-106	pCi/L	-7.05E-01	1.69E+01		U
Surface Water	3/27/2018 10:07	Selenium-75	pCi/L	1.25E+00	2.27E+00		U
Surface Water	3/27/2018 10:07	Silver-108m	pCi/L	-4.59E-02	1.49E+00		U
Surface Water	3/27/2018 10:07	Silver-110m	pCi/L	1.17E+00	2.47E+00		U
Surface Water	3/27/2018 10:07	Thorium-228	pCi/L	2.35E+00	2.70E+00		U
Surface Water	3/27/2018 10:07	Zinc-65	pCi/L	-1.97E+00	3.49E+00	3.00E+01	U
Surface Water	3/27/2018 10:07	Zirconium-95	pCi/L	6.48E-01	3.59E+00	1.50E+01	U
Surface Water	4/24/2018 9:48	Actinium-228	pCi/L	-3.69E+00	6.59E+00		U
Surface Water	4/24/2018 9:48	Antimony-124	pCi/L	-9.37E-01	2.91E+00		U
Surface Water	4/24/2018 9:48	Antimony-125	pCi/L	-6.08E-01	3.50E+00		U
Surface Water	4/24/2018 9:48	Barium-140	pCi/L	1.86E+00	7.20E+00	1.50E+01	U
Surface Water	4/24/2018 9:48	Beryllium-7	pCi/L	2.46E+00	1.19E+01		U
Surface Water	4/24/2018 9:48	Cerium-141	pCi/L	-1.70E+00	2.31E+00		U
Surface Water	4/24/2018 9:48	Cerium-144	pCi/L	6.22E-01	8.56E+00		U
Surface Water	4/24/2018 9:48	Cesium-134	pCi/L	7.54E-01	1.56E+00	1.50E+01	U

Surface Water	4/24/2018 9:48	Cesium-137	pCi/L	-2.86E-01	1.41E+00	1.80E+01	U
Surface Water	4/24/2018 9:48	Chromium-51	pCi/L	7.51E+00	1.34E+01		U
Surface Water	4/24/2018 9:48	Cobalt-57	pCi/L	-3.17E-01	1.13E+00		U
Surface Water	4/24/2018 9:48	Cobalt-58	pCi/L	-1.15E-01	1.36E+00	1.50E+01	U
Surface Water	4/24/2018 9:48	Cobalt-60	pCi/L	-1.55E-01	1.38E+00	1.50E+01	U
Surface Water	4/24/2018 9:48	Iodine-131	pCi/L	5.14E-02	2.41E+00		U
Surface Water	4/24/2018 9:48	Iron-59	pCi/L	4.96E-01	2.81E+00	3.00E+01	U
Surface Water	4/24/2018 9:48	Lanthanum-140	pCi/L	-2.21E+00	1.98E+00	1.50E+01	U
Surface Water	4/24/2018 9:48	Manganese-54	pCi/L	-3.87E-02	1.31E+00	1.50E+01	U
Surface Water	4/24/2018 9:48	Niobium-95	pCi/L	-4.14E-01	1.36E+00	1.50E+01	U
Surface Water	4/24/2018 9:48	Potassium-40	pCi/L	3.14E+00	1.30E+01		U
Surface Water	4/24/2018 9:48	Ruthenium-103	pCi/L	-6.54E-02	1.38E+00		U
Surface Water	4/24/2018 9:48	Ruthenium-106	pCi/L	-2.87E-01	1.20E+01		U
Surface Water	4/24/2018 9:48	Selenium-75	pCi/L	-3.81E-01	1.79E+00		U
Surface Water	4/24/2018 9:48	Silver-108m	pCi/L	5.16E-02	1.23E+00		U
Surface Water	4/24/2018 9:48	Silver-110m	pCi/L	2.81E-01	1.92E+00		U
Surface Water	4/24/2018 9:48	Thorium-228	pCi/L	-3.09E-01	2.87E+00		U
Surface Water	4/24/2018 9:48	Zinc-65	pCi/L	6.42E-01	2.59E+00	3.00E+01	U
Surface Water	4/24/2018 9:48	Zirconium-95	pCi/L	-2.66E-01	2.41E+00	1.50E+01	U
Surface Water	2/27/2018 10:18	Tritium	pCi/L	2.44E+02	4.53E+02	2.00E+03	U
Surface Water	5/29/2018 10:24	Actinium-228	pCi/L	-3.90E+00	8.48E+00		U
Surface Water	5/29/2018 10:24	Antimony-124	pCi/L	-7.29E-01	4.36E+00		U
Surface Water	5/29/2018 10:24	Antimony-125	pCi/L	1.11E+00	4.87E+00		U
Surface Water	5/29/2018 10:24	Barium-140	pCi/L	1.38E+00	9.68E+00	1.50E+01	U
Surface Water	5/29/2018 10:24	Beryllium-7	pCi/L	2.43E-01	1.56E+01		U
Surface Water	5/29/2018 10:24	Cerium-141	pCi/L	-1.17E+00	2.68E+00		U
Surface Water	5/29/2018 10:24	Cerium-144	pCi/L	-6.67E-01	9.30E+00		U
Surface Water	5/29/2018 10:24	Cesium-134	pCi/L	-4.22E-02	2.10E+00	1.50E+01	U
Surface Water	5/29/2018 10:24	Cesium-137	pCi/L	4.95E-01	2.11E+00	1.80E+01	U
Surface Water	5/29/2018 10:24	Chromium-51	pCi/L	-1.05E+00	1.53E+01		U
Surface Water	5/29/2018 10:24	Cobalt-57	pCi/L	-4.21E-01	1.21E+00		U
Surface Water	5/29/2018 10:24	Cobalt-58	pCi/L	-1.93E-01	1.90E+00	1.50E+01	U
Surface Water	5/29/2018 10:24	Cobalt-60	pCi/L	1.84E+00	2.06E+00	1.50E+01	U
Surface Water	5/29/2018 10:24	Iodine-131	pCi/L	-1.09E+00	3.22E+00		U
Surface Water	5/29/2018 10:24	Iron-59	pCi/L	1.05E+01	4.27E+00	3.00E+01	UI
Surface Water	5/29/2018 10:24	Lanthanum-140	pCi/L	-9.49E-01	2.93E+00	1.50E+01	U
Surface Water	5/29/2018 10:24	Manganese-54	pCi/L	-2.08E-01	1.64E+00	1.50E+01	U
Surface Water	5/29/2018 10:24	Niobium-95	pCi/L	3.02E-02	2.13E+00	1.50E+01	U
Surface Water	5/29/2018 10:24	Potassium-40	pCi/L	5.45E+00	1.80E+01		U
Surface Water	5/29/2018 10:24	Ruthenium-103	pCi/L	-2.49E-01	1.86E+00		U
Surface Water	5/29/2018 10:24	Ruthenium-106	pCi/L	2.60E+00	1.65E+01		U
Surface Water	5/29/2018 10:24	Selenium-75	pCi/L	1.50E+00	2.12E+00		U
Surface Water	5/29/2018 10:24	Silver-108m	pCi/L	8.16E-03	1.49E+00		U
Surface Water	5/29/2018 10:24	Silver-110m	pCi/L	-4.96E-01	2.61E+00		U

Surface Water	5/29/2018 10:24	Thorium-228	pCi/L	2.76E+00	2.64E+00		UI
Surface Water	5/29/2018 10:24	Zinc-65	pCi/L	-1.48E+00	3.81E+00	3.00E+01	U
Surface Water	5/29/2018 10:24	Zirconium-95	pCi/L	2.68E+00	3.74E+00	1.50E+01	U
Surface Water	6/26/2018 12:28	Actinium-228	pCi/L	4.02E+00	6.33E+00		U
Surface Water	6/26/2018 12:28	Antimony-124	pCi/L	-4.62E-01	2.80E+00		U
Surface Water	6/26/2018 12:28	Antimony-125	pCi/L	2.30E+00	3.70E+00		U
Surface Water	6/26/2018 12:28	Barium-140	pCi/L	3.00E+00	5.02E+00	1.50E+01	U
Surface Water	6/26/2018 12:28	Beryllium-7	pCi/L	2.17E+00	9.85E+00		U
Surface Water	6/26/2018 12:28	Cerium-141	pCi/L	1.44E+00	2.09E+00		U
Surface Water	6/26/2018 12:28	Cerium-144	pCi/L	1.83E+00	8.59E+00		U
Surface Water	6/26/2018 12:28	Cesium-134	pCi/L	4.52E-01	1.36E+00	1.50E+01	U
Surface Water	6/26/2018 12:28	Cesium-137	pCi/L	2.50E-01	1.26E+00	1.80E+01	U
Surface Water	6/26/2018 12:28	Chromium-51	pCi/L	-7.33E-01	1.11E+01		U
Surface Water	6/26/2018 12:28	Cobalt-57	pCi/L	-5.52E-01	1.10E+00		U
Surface Water	6/26/2018 12:28	Cobalt-58	pCi/L	3.77E-02	1.17E+00	1.50E+01	U
Surface Water	6/26/2018 12:28	Cobalt-60	pCi/L	3.02E-01	1.35E+00	1.50E+01	U
Surface Water	6/26/2018 12:28	Iodine-131	pCi/L	8.01E-01	1.73E+00		U
Surface Water	6/26/2018 12:28	Iron-59	pCi/L	-8.40E-01	2.30E+00	3.00E+01	U
Surface Water	6/26/2018 12:28	Lanthanum-140	pCi/L	9.12E-01	1.69E+00	1.50E+01	U
Surface Water	6/26/2018 12:28	Manganese-54	pCi/L	5.30E-01	1.23E+00	1.50E+01	U
Surface Water	6/26/2018 12:28	Niobium-95	pCi/L	-1.99E-02	1.32E+00	1.50E+01	U
Surface Water	6/26/2018 12:28	Potassium-40	pCi/L	2.31E+00	1.11E+01		U
Surface Water	6/26/2018 12:28	Ruthenium-103	pCi/L	4.53E-01	1.24E+00		U
Surface Water	6/26/2018 12:28	Ruthenium-106	pCi/L	-2.71E+00	1.08E+01		U
Surface Water	6/26/2018 12:28	Selenium-75	pCi/L	-6.97E-01	1.61E+00		U
Surface Water	6/26/2018 12:28	Silver-108m	pCi/L	-1.99E-01	1.09E+00		U
Surface Water	6/26/2018 12:28	Silver-110m	pCi/L	1.44E+00	1.87E+00		U
Surface Water	6/26/2018 12:28	Thorium-228	pCi/L	4.55E-01	3.00E+00		U
Surface Water	6/26/2018 12:28	Zinc-65	pCi/L	7.60E-01	2.41E+00	3.00E+01	U
Surface Water	6/26/2018 12:28	Zirconium-95	pCi/L	1.63E+00	2.17E+00	1.50E+01	U
Surface Water	7/31/2018 9:20	Actinium-228	pCi/L	1.16E+00	1.17E+01		U
Surface Water	7/31/2018 9:20	Antimony-124	pCi/L	1.74E+00	6.32E+00		U
Surface Water	7/31/2018 9:20	Antimony-125	pCi/L	-2.38E+00	6.43E+00		U
Surface Water	7/31/2018 9:20	Barium-140	pCi/L	-3.97E+00	9.34E+00	1.50E+01	U
Surface Water	7/31/2018 9:20	Beryllium-7	pCi/L	-2.03E+00	2.25E+01		U
Surface Water	7/31/2018 9:20	Cerium-141	pCi/L	1.30E+00	4.37E+00		U
Surface Water	7/31/2018 9:20	Cerium-144	pCi/L	4.23E+00	1.79E+01		U
Surface Water	7/31/2018 9:20	Cesium-134	pCi/L	3.15E-02	2.96E+00	1.50E+01	U
Surface Water	7/31/2018 9:20	Cesium-137	pCi/L	6.34E-02	2.70E+00	1.80E+01	U
Surface Water	7/31/2018 9:20	Chromium-51	pCi/L	7.01E+00	2.46E+01		U
Surface Water	7/31/2018 9:20	Cobalt-57	pCi/L	5.06E-01	2.41E+00		U
Surface Water	7/31/2018 9:20	Cobalt-58	pCi/L	-4.82E-01	2.32E+00	1.50E+01	U
Surface Water	7/31/2018 9:20	Cobalt-60	pCi/L	1.28E+00	2.85E+00	1.50E+01	U
Surface Water	7/31/2018 9:20	Iodine-131	pCi/L	-1.56E+00	2.88E+00		U

Surface Water	7/31/2018 9:20	Iron-59	pCi/L	1.81E-01	4.27E+00	3.00E+01	U
Surface Water	7/31/2018 9:20	Lanthanum-140	pCi/L	-1.78E+00	3.51E+00	1.50E+01	U
Surface Water	7/31/2018 9:20	Manganese-54	pCi/L	-2.79E-01	2.70E+00	1.50E+01	U
Surface Water	7/31/2018 9:20	Niobium-95	pCi/L	6.59E-01	2.98E+00	1.50E+01	U
Surface Water	7/31/2018 9:20	Potassium-40	pCi/L	2.51E+01	2.45E+01		UI
Surface Water	7/31/2018 9:20	Ruthenium-103	pCi/L	-5.53E-01	2.40E+00		U
Surface Water	7/31/2018 9:20	Ruthenium-106	pCi/L	-2.78E-01	2.35E+01		U
Surface Water	7/31/2018 9:20	Selenium-75	pCi/L	1.10E-01	3.43E+00		U
Surface Water	7/31/2018 9:20	Silver-108m	pCi/L	2.37E-01	2.12E+00		U
Surface Water	7/31/2018 9:20	Silver-110m	pCi/L	5.18E-02	3.58E+00		U
Surface Water	7/31/2018 9:20	Thorium-228	pCi/L	2.73E+00	5.65E+00		U
Surface Water	7/31/2018 9:20	Zinc-65	pCi/L	-1.54E-01	5.28E+00	3.00E+01	U
Surface Water	7/31/2018 9:20	Zirconium-95	pCi/L	1.15E+00	5.20E+00	1.50E+01	U
Surface Water	5/25/2018 23:08	Tritium	pCi/L	-1.49E+01	5.88E+02	2.00E+03	U
Surface Water	8/28/2018 10:46	Actinium-228	pCi/L	-1.90E+00	6.43E+00		U
Surface Water	8/28/2018 10:46	Antimony-124	pCi/L	-7.68E-01	3.12E+00		U
Surface Water	8/28/2018 10:46	Antimony-125	pCi/L	-1.35E+00	3.61E+00		U
Surface Water	8/28/2018 10:46	Barium-140	pCi/L	1.52E+00	7.47E+00	1.50E+01	U
Surface Water	8/28/2018 10:46	Beryllium-7	pCi/L	-6.30E-01	1.21E+01		U
Surface Water	8/28/2018 10:46	Cerium-141	pCi/L	1.12E+00	2.47E+00		U
Surface Water	8/28/2018 10:46	Cerium-144	pCi/L	4.78E+00	9.81E+00		U
Surface Water	8/28/2018 10:46	Cesium-134	pCi/L	2.17E-01	1.38E+00	1.50E+01	U
Surface Water	8/28/2018 10:46	Cesium-137	pCi/L	-2.74E-01	1.40E+00	1.80E+01	U
Surface Water	8/28/2018 10:46	Chromium-51	pCi/L	-1.31E+00	1.39E+01		U
Surface Water	8/28/2018 10:46	Cobalt-57	pCi/L	1.44E+00	1.24E+00	.	UI
Surface Water	8/28/2018 10:46	Cobalt-58	pCi/L	2.70E-01	1.38E+00	1.50E+01	U
Surface Water	8/28/2018 10:46	Cobalt-60	pCi/L	4.41E-01	1.41E+00	1.50E+01	U
Surface Water	8/28/2018 10:46	Iodine-131	pCi/L	4.41E-01	2.79E+00		U
Surface Water	8/28/2018 10:46	Iron-59	pCi/L	3.62E-01	2.52E+00	3.00E+01	U
Surface Water	8/28/2018 10:46	Lanthanum-140	pCi/L	-6.98E-01	2.08E+00	1.50E+01	U
Surface Water	8/28/2018 10:46	Manganese-54	pCi/L	-1.34E-02	1.24E+00	1.50E+01	U
Surface Water	8/28/2018 10:46	Niobium-95	pCi/L	2.25E-02	1.35E+00	1.50E+01	U
Surface Water	8/28/2018 10:46	Potassium-40	pCi/L	-9.37E+00	2.43E+01		U
Surface Water	8/28/2018 10:46	Ruthenium-103	pCi/L	-1.54E-01	1.48E+00		U
Surface Water	8/28/2018 10:46	Ruthenium-106	pCi/L	3.69E+00	1.30E+01		U
Surface Water	8/28/2018 10:46	Selenium-75	pCi/L	-4.17E-01	1.95E+00		U
Surface Water	8/28/2018 10:46	Silver-108m	pCi/L	1.03E-01	1.23E+00		U
Surface Water	8/28/2018 10:46	Silver-110m	pCi/L	-2.15E-02	1.52E+00		U
Surface Water	8/28/2018 10:46	Thorium-228	pCi/L	-3.27E+00	2.99E+00		U
Surface Water	8/28/2018 10:46	Zinc-65	pCi/L	1.26E+00	2.92E+00	3.00E+01	U
Surface Water	8/28/2018 10:46	Zirconium-95	pCi/L	8.81E-01	2.33E+00	1.50E+01	U
Surface Water	9/25/2018 10:28	Actinium-228	pCi/L	1.01E+01	8.65E+00		UI
Surface Water	9/25/2018 10:28	Antimony-124	pCi/L	-1.08E+00	3.77E+00		U
Surface Water	9/25/2018 10:28	Antimony-125	pCi/L	9.04E-01	4.28E+00		U

Surface Water	9/25/2018 10:28	Barium-140	pCi/L	3.76E-01	9.48E+00	1.50E+01	U
Surface Water	9/25/2018 10:28	Beryllium-7	pCi/L	2.86E+00	1.54E+01		U
Surface Water	9/25/2018 10:28	Cerium-141	pCi/L	-2.67E+00	3.26E+00		U
Surface Water	9/25/2018 10:28	Cerium-144	pCi/L	-5.97E+00	1.13E+01		U
Surface Water	9/25/2018 10:28	Cesium-134	pCi/L	-1.70E-01	1.77E+00	1.50E+01	U
Surface Water	9/25/2018 10:28	Cesium-137	pCi/L	1.18E+00	1.86E+00	1.80E+01	U
Surface Water	9/25/2018 10:28	Chromium-51	pCi/L	7.96E-01	1.70E+01		U
Surface Water	9/25/2018 10:28	Cobalt-57	pCi/L	2.85E-01	1.51E+00		U
Surface Water	9/25/2018 10:28	Cobalt-58	pCi/L	3.04E-02	1.68E+00	1.50E+01	U
Surface Water	9/25/2018 10:28	Cobalt-60	pCi/L	-7.99E-02	1.73E+00	1.50E+01	U
Surface Water	9/25/2018 10:28	Iodine-131	pCi/L	-7.14E-02	3.62E+00		U
Surface Water	9/25/2018 10:28	Iron-59	pCi/L	-3.47E-01	3.81E+00	3.00E+01	U
Surface Water	9/25/2018 10:28	Lanthanum-140	pCi/L	-7.00E-01	3.08E+00	1.50E+01	U
Surface Water	9/25/2018 10:28	Manganese-54	pCi/L	-8.20E-01	1.60E+00	1.50E+01	U
Surface Water	9/25/2018 10:28	Niobium-95	pCi/L	7.43E-01	1.89E+00	1.50E+01	U
Surface Water	9/25/2018 10:28	Potassium-40	pCi/L	6.50E+01	1.72E+01		
Surface Water	9/25/2018 10:28	Ruthenium-103	pCi/L	-1.22E+00	1.70E+00		U
Surface Water	9/25/2018 10:28	Ruthenium-106	pCi/L	4.73E+00	1.57E+01		U
Surface Water	9/25/2018 10:28	Selenium-75	pCi/L	1.03E+00	2.35E+00		U
Surface Water	9/25/2018 10:28	Silver-108m	pCi/L	7.01E-01	1.53E+00		U
Surface Water	9/25/2018 10:28	Silver-110m	pCi/L	-1.45E-01	2.23E+00		U
Surface Water	9/25/2018 10:28	Thorium-228	pCi/L	-2.80E+00	4.11E+00		U
Surface Water	9/25/2018 10:28	Zinc-65	pCi/L	-4.72E-01	3.35E+00	3.00E+01	U
Surface Water	9/25/2018 10:28	Zirconium-95	pCi/L	7.26E-01	3.22E+00	1.50E+01	U
Surface Water	8/28/2018 9:54	Tritium	pCi/L	4.97E+02	4.28E+02	2.00E+03	M
Surface Water	11/27/2018 12:08	Actinium-228	pCi/L	2.40E+00	7.07E+00		U
Surface Water	11/27/2018 12:08	Antimony-124	pCi/L	3.75E+00	4.06E+00		U
Surface Water	11/27/2018 12:08	Antimony-125	pCi/L	1.70E-01	4.00E+00		U
Surface Water	11/27/2018 12:08	Barium-140	pCi/L	2.33E+00	7.62E+00	1.50E+01	U
Surface Water	11/27/2018 12:08	Beryllium-7	pCi/L	-2.91E+00	1.28E+01		U
Surface Water	11/27/2018 12:08	Cerium-141	pCi/L	-1.96E+00	2.71E+00		U
Surface Water	11/27/2018 12:08	Cerium-144	pCi/L	2.60E+00	1.02E+01		U
Surface Water	11/27/2018 12:08	Cesium-134	pCi/L	-1.87E-01	1.67E+00	1.50E+01	U
Surface Water	11/27/2018 12:08	Cesium-137	pCi/L	6.79E-01	1.54E+00	1.80E+01	U
Surface Water	11/27/2018 12:08	Chromium-51	pCi/L	1.33E+00	1.50E+01		U
Surface Water	11/27/2018 12:08	Cobalt-57	pCi/L	3.89E-01	1.31E+00		U
Surface Water	11/27/2018 12:08	Cobalt-58	pCi/L	8.44E-01	1.57E+00	1.50E+01	U
Surface Water	11/27/2018 12:08	Cobalt-60	pCi/L	1.13E-02	1.75E+00	1.50E+01	U
Surface Water	11/27/2018 12:08	Iodine-131	pCi/L	-5.23E-01	2.69E+00		U
Surface Water	11/27/2018 12:08	Iron-59	pCi/L	4.90E-02	3.10E+00	3.00E+01	U
Surface Water	11/27/2018 12:08	Lanthanum-140	pCi/L	-1.50E+00	2.20E+00	1.50E+01	U
Surface Water	11/27/2018 12:08	Manganese-54	pCi/L	1.84E-01	1.56E+00	1.50E+01	U
Surface Water	11/27/2018 12:08	Niobium-95	pCi/L	5.29E-01	1.60E+00	1.50E+01	U
Surface Water	11/27/2018 12:08	Potassium-40	pCi/L	4.60E+00	1.62E+01		U

Surface Water	11/27/2018 12:08	Ruthenium-103	pCi/L	1.94E-01	1.53E+00		U
Surface Water	11/27/2018 12:08	Ruthenium-106	pCi/L	8.91E+00	1.33E+01		U
Surface Water	11/27/2018 12:08	Selenium-75	pCi/L	2.39E-01	2.06E+00		U
Surface Water	11/27/2018 12:08	Silver-108m	pCi/L	3.55E-01	1.35E+00		U
Surface Water	11/27/2018 12:08	Silver-110m	pCi/L	-4.32E-01	1.96E+00		U
Surface Water	11/27/2018 12:08	Thorium-228	pCi/L	2.42E+00	3.62E+00		U
Surface Water	11/27/2018 12:08	Zinc-65	pCi/L	-6.25E-01	3.12E+00	3.00E+01	U
Surface Water	11/27/2018 12:08	Zirconium-95	pCi/L	-4.28E-01	2.54E+00	1.50E+01	U
Surface Water	12/25/2018 10:49	Actinium-228	pCi/L	6.55E+00	7.23E+00		U
Surface Water	12/25/2018 10:49	Antimony-124	pCi/L	1.16E+00	3.87E+00		U
Surface Water	12/25/2018 10:49	Antimony-125	pCi/L	-4.35E-01	3.92E+00		U
Surface Water	12/25/2018 10:49	Barium-140	pCi/L	4.74E+00	9.01E+00	1.50E+01	U
Surface Water	12/25/2018 10:49	Beryllium-7	pCi/L	-2.48E+00	1.25E+01		U
Surface Water	12/25/2018 10:49	Cerium-141	pCi/L	-6.02E+00	2.75E+00		U
Surface Water	12/25/2018 10:49	Cerium-144	pCi/L	-5.73E+00	9.58E+00		U
Surface Water	12/25/2018 10:49	Cesium-134	pCi/L	3.45E-02	1.67E+00	1.50E+01	U
Surface Water	12/25/2018 10:49	Cesium-137	pCi/L	6.57E-01	1.41E+00	1.80E+01	U
Surface Water	12/25/2018 10:49	Chromium-51	pCi/L	-2.83E+00	1.40E+01		U
Surface Water	12/25/2018 10:49	Cobalt-57	pCi/L	-1.21E-02	1.22E+00		U
Surface Water	12/25/2018 10:49	Cobalt-58	pCi/L	-1.60E-01	1.43E+00	1.50E+01	U
Surface Water	12/25/2018 10:49	Cobalt-60	pCi/L	1.86E-01	1.49E+00	1.50E+01	U
Surface Water	12/25/2018 10:49	Iodine-131	pCi/L	-6.39E-01	3.36E+00		U
Surface Water	12/25/2018 10:49	Iron-59	pCi/L	7.03E-01	2.95E+00	3.00E+01	U
Surface Water	12/25/2018 10:49	Lanthanum-140	pCi/L	-3.10E-01	2.61E+00	1.50E+01	U
Surface Water	12/25/2018 10:49	Manganese-54	pCi/L	7.04E-01	1.47E+00	1.50E+01	U
Surface Water	12/25/2018 10:49	Niobium-95	pCi/L	7.65E-01	1.42E+00	1.50E+01	U
Surface Water	12/25/2018 10:49	Potassium-40	pCi/L	-1.18E+01	1.99E+01		U
Surface Water	12/25/2018 10:49	Ruthenium-103	pCi/L	9.00E-01	1.57E+00		U
Surface Water	12/25/2018 10:49	Ruthenium-106	pCi/L	5.59E+00	1.36E+01		U
Surface Water	12/25/2018 10:49	Selenium-75	pCi/L	1.07E-01	1.92E+00		U
Surface Water	12/25/2018 10:49	Silver-108m	pCi/L	-1.08E+00	1.24E+00		U
Surface Water	12/25/2018 10:49	Silver-110m	pCi/L	-6.06E-01	1.81E+00		U
Surface Water	12/25/2018 10:49	Thorium-228	pCi/L	1.39E+00	2.55E+00		U
Surface Water	12/25/2018 10:49	Zinc-65	pCi/L	1.56E+00	3.27E+00	3.00E+01	U
Surface Water	12/25/2018 10:49	Zirconium-95	pCi/L	2.40E-01	2.62E+00	1.50E+01	U
Surface Water	11/27/2018 10:49	Tritium	pCi/L	-2.11E+02	5.95E+02	2.00E+03	U

The data obtained from this website is the most accurate possible at the time of your query and based upon your specific inquiry. This data does not replace the Certificates of Analysis provided by GEL. Certificates of Analysis undergo an additional level of review before being sent to the client that is not

Notes:

1. LLDs are a-priori values.
2. MDCs are calculated a-posteriori values.

3. Gamma spectroscopy analysis results are calculated from a measurement using only one gamma energ
4. Air sample volumes are received in units of ft3. GEL converts the units and reports them as m3.

QUALIFIERS:

U Target isotope was analyzed for but not detected above the MDC or LLD.
UI Uncertain identification for gamma spectroscopy.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager
M Reported result is less than the LLD and greater than the MDC.
DL DL MDC > LLD.

Sample Data For: "SW-5"

Matrix	Collect Date	Parmname	Units	Result	MDC	LLD	Qualifier
Surface Water	1/15/2018 21:22	Actinium-228	pCi/L	6.70E+00	4.62E+00		UI
Surface Water	1/15/2018 21:22	Antimony-124	pCi/L	8.31E-02	3.87E+00		U
Surface Water	1/15/2018 21:22	Antimony-125	pCi/L	-5.69E-01	3.37E+00		U
Surface Water	1/15/2018 21:22	Barium-140	pCi/L	-1.88E+00	1.42E+01	1.50E+01	U
Surface Water	1/15/2018 21:22	Beryllium-7	pCi/L	1.82E+00	1.39E+01		U
Surface Water	1/15/2018 21:22	Cerium-141	pCi/L	9.48E-02	3.18E+00		U
Surface Water	1/15/2018 21:22	Cerium-144	pCi/L	1.37E+00	9.72E+00		U
Surface Water	1/15/2018 21:22	Cesium-134	pCi/L	4.67E-01	1.51E+00	1.50E+01	U
Surface Water	1/15/2018 21:22	Cesium-137	pCi/L	1.29E-01	1.36E+00	1.80E+01	U
Surface Water	1/15/2018 21:22	Chromium-51	pCi/L	1.47E+01	1.79E+01		U
Surface Water	1/15/2018 21:22	Cobalt-57	pCi/L	3.81E-01	1.25E+00		U
Surface Water	1/15/2018 21:22	Cobalt-58	pCi/L	-2.11E-01	1.48E+00	1.50E+01	U
Surface Water	1/15/2018 21:22	Cobalt-60	pCi/L	-2.19E-01	1.32E+00	1.50E+01	U
Surface Water	1/15/2018 21:22	Iodine-131	pCi/L	6.81E-02	8.25E+00		U
Surface Water	1/15/2018 21:22	Iron-59	pCi/L	-2.69E-01	3.43E+00	3.00E+01	U
Surface Water	1/15/2018 21:22	Lanthanum-140	pCi/L	-2.38E+00	4.15E+00	1.50E+01	U
Surface Water	1/15/2018 21:22	Manganese-54	pCi/L	9.83E-02	1.37E+00	1.50E+01	U
Surface Water	1/15/2018 21:22	Niobium-95	pCi/L	1.16E+00	1.52E+00	1.50E+01	U
Surface Water	1/15/2018 21:22	Potassium-40	pCi/L	3.07E+00	2.38E+01		U
Surface Water	1/15/2018 21:22	Ruthenium-103	pCi/L	3.71E-01	1.61E+00		U
Surface Water	1/15/2018 21:22	Ruthenium-106	pCi/L	7.81E+00	1.31E+01		U
Surface Water	1/15/2018 21:22	Selenium-75	pCi/L	4.69E-01	1.96E+00		U
Surface Water	1/15/2018 21:22	Silver-108m	pCi/L	1.25E-01	1.21E+00		U
Surface Water	1/15/2018 21:22	Silver-110m	pCi/L	2.25E-01	1.93E+00		U
Surface Water	1/15/2018 21:22	Thorium-228	pCi/L	-1.99E+00	3.03E+00		U
Surface Water	1/15/2018 21:22	Zinc-65	pCi/L	1.15E+00	2.98E+00	3.00E+01	U
Surface Water	1/15/2018 21:22	Zirconium-95	pCi/L	1.66E+00	2.90E+00	1.50E+01	U
Surface Water	2/14/2018 9:24	Actinium-228	pCi/L	1.75E+00	7.20E+00		U
Surface Water	2/14/2018 9:24	Antimony-124	pCi/L	8.38E-01	4.32E+00		U
Surface Water	2/14/2018 9:24	Antimony-125	pCi/L	4.45E-01	4.05E+00		U

Surface Water	2/14/2018 9:24	Barium-140	pCi/L	-3.15E+00	1.45E+01	1.50E+01	U
Surface Water	2/14/2018 9:24	Beryllium-7	pCi/L	4.89E+00	1.63E+01		U
Surface Water	2/14/2018 9:24	Cerium-141	pCi/L	-1.30E+00	3.44E+00		U
Surface Water	2/14/2018 9:24	Cerium-144	pCi/L	4.97E+00	1.11E+01		U
Surface Water	2/14/2018 9:24	Cesium-134	pCi/L	5.25E-01	1.70E+00	1.50E+01	U
Surface Water	2/14/2018 9:24	Cesium-137	pCi/L	5.00E-01	1.71E+00	1.80E+01	U
Surface Water	2/14/2018 9:24	Chromium-51	pCi/L	1.41E-01	1.97E+01		U
Surface Water	2/14/2018 9:24	Cobalt-57	pCi/L	-2.00E-01	1.46E+00		U
Surface Water	2/14/2018 9:24	Cobalt-58	pCi/L	3.01E-01	1.85E+00	1.50E+01	U
Surface Water	2/14/2018 9:24	Cobalt-60	pCi/L	1.88E-01	1.56E+00	1.50E+01	U
Surface Water	2/14/2018 9:24	Iodine-131	pCi/L	-7.05E-01	8.39E+00		U
Surface Water	2/14/2018 9:24	Iron-59	pCi/L	1.04E+00	4.03E+00	3.00E+01	U
Surface Water	2/14/2018 9:24	Lanthanum-140	pCi/L	-1.31E+00	4.77E+00	1.50E+01	U
Surface Water	2/14/2018 9:24	Manganese-54	pCi/L	2.15E-01	1.51E+00	1.50E+01	U
Surface Water	2/14/2018 9:24	Niobium-95	pCi/L	7.18E-01	1.77E+00	1.50E+01	U
Surface Water	2/14/2018 9:24	Potassium-40	pCi/L	6.69E+00	1.60E+01		U
Surface Water	2/14/2018 9:24	Ruthenium-103	pCi/L	-1.51E-01	1.98E+00		U
Surface Water	2/14/2018 9:24	Ruthenium-106	pCi/L	5.60E-01	1.49E+01		U
Surface Water	2/14/2018 9:24	Selenium-75	pCi/L	-8.02E-01	2.01E+00		U
Surface Water	2/14/2018 9:24	Silver-108m	pCi/L	4.43E-01	1.39E+00		U
Surface Water	2/14/2018 9:24	Silver-110m	pCi/L	1.85E-02	1.99E+00		U
Surface Water	2/14/2018 9:24	Thorium-228	pCi/L	1.18E-01	3.19E+00		U
Surface Water	2/14/2018 9:24	Zinc-65	pCi/L	-5.66E-01	3.12E+00	3.00E+01	U
Surface Water	2/14/2018 9:24	Zirconium-95	pCi/L	-8.49E-01	3.18E+00	1.50E+01	U
Surface Water	3/14/2018 10:12	Actinium-228	pCi/L	9.60E+00	6.45E+00		UI
Surface Water	3/14/2018 10:12	Antimony-124	pCi/L	4.14E-01	4.06E+00		U
Surface Water	3/14/2018 10:12	Antimony-125	pCi/L	-6.36E-01	3.50E+00		U
Surface Water	3/14/2018 10:12	Barium-140	pCi/L	-3.40E+00	1.37E+01	1.50E+01	U
Surface Water	3/14/2018 10:12	Beryllium-7	pCi/L	-1.76E+00	1.33E+01		U
Surface Water	3/14/2018 10:12	Cerium-141	pCi/L	9.92E-01	2.78E+00		U
Surface Water	3/14/2018 10:12	Cerium-144	pCi/L	4.82E+00	8.43E+00		U
Surface Water	3/14/2018 10:12	Cesium-134	pCi/L	-2.57E-01	1.40E+00	1.50E+01	U
Surface Water	3/14/2018 10:12	Cesium-137	pCi/L	5.71E-01	1.42E+00	1.80E+01	U
Surface Water	3/14/2018 10:12	Chromium-51	pCi/L	-9.39E+00	1.81E+01		U
Surface Water	3/14/2018 10:12	Cobalt-57	pCi/L	-7.79E-01	1.12E+00		U
Surface Water	3/14/2018 10:12	Cobalt-58	pCi/L	-3.78E-01	1.38E+00	1.50E+01	U
Surface Water	3/14/2018 10:12	Cobalt-60	pCi/L	-1.05E+00	1.35E+00	1.50E+01	U
Surface Water	3/14/2018 10:12	Iodine-131	pCi/L	-1.55E+00	7.21E+00		U
Surface Water	3/14/2018 10:12	Iron-59	pCi/L	-1.52E+00	3.25E+00	3.00E+01	U
Surface Water	3/14/2018 10:12	Lanthanum-140	pCi/L	-5.78E-01	4.86E+00	1.50E+01	U
Surface Water	3/14/2018 10:12	Manganese-54	pCi/L	4.33E-01	1.44E+00	1.50E+01	U
Surface Water	3/14/2018 10:12	Niobium-95	pCi/L	-2.31E-01	1.64E+00	1.50E+01	U
Surface Water	3/14/2018 10:12	Potassium-40	pCi/L	1.06E+01	1.40E+01		U
Surface Water	3/14/2018 10:12	Ruthenium-103	pCi/L	-9.19E-01	1.69E+00		U

Surface Water	3/14/2018 10:12	Ruthenium-106	pCi/L	1.30E-01	1.21E+01		U
Surface Water	3/14/2018 10:12	Selenium-75	pCi/L	-1.09E-01	1.87E+00		U
Surface Water	3/14/2018 10:12	Silver-108m	pCi/L	4.76E-01	1.26E+00		U
Surface Water	3/14/2018 10:12	Silver-110m	pCi/L	-4.35E-01	1.78E+00		U
Surface Water	3/14/2018 10:12	Thorium-228	pCi/L	1.36E-01	2.95E+00		U
Surface Water	3/14/2018 10:12	Zinc-65	pCi/L	-2.77E-04	2.81E+00	3.00E+01	U
Surface Water	3/14/2018 10:12	Zirconium-95	pCi/L	-7.27E-01	2.88E+00	1.50E+01	U
Surface Water	4/12/2018 21:10	Actinium-228	pCi/L	-2.89E+00	5.90E+00		U
Surface Water	4/12/2018 21:10	Antimony-124	pCi/L	3.00E-01	3.29E+00		U
Surface Water	4/12/2018 21:10	Antimony-125	pCi/L	-6.15E-01	3.17E+00		U
Surface Water	4/12/2018 21:10	Barium-140	pCi/L	-5.93E+00	1.13E+01	1.50E+01	U
Surface Water	4/12/2018 21:10	Beryllium-7	pCi/L	3.80E+00	1.25E+01		U
Surface Water	4/12/2018 21:10	Cerium-141	pCi/L	-2.08E+00	2.68E+00		U
Surface Water	4/12/2018 21:10	Cerium-144	pCi/L	3.34E+00	8.10E+00		U
Surface Water	4/12/2018 21:10	Cesium-134	pCi/L	3.39E-02	1.22E+00	1.50E+01	U
Surface Water	4/12/2018 21:10	Cesium-137	pCi/L	-1.05E+00	1.76E+00	1.80E+01	U
Surface Water	4/12/2018 21:10	Chromium-51	pCi/L	-8.93E-01	1.49E+01		U
Surface Water	4/12/2018 21:10	Cobalt-57	pCi/L	-2.73E-01	1.07E+00		U
Surface Water	4/12/2018 21:10	Cobalt-58	pCi/L	-8.37E-01	1.12E+00	1.50E+01	U
Surface Water	4/12/2018 21:10	Cobalt-60	pCi/L	4.43E-01	1.27E+00	1.50E+01	U
Surface Water	4/12/2018 21:10	Iodine-131	pCi/L	-1.75E+00	6.14E+00		U
Surface Water	4/12/2018 21:10	Iron-59	pCi/L	1.63E+00	3.02E+00	3.00E+01	U
Surface Water	4/12/2018 21:10	Lanthanum-140	pCi/L	-2.41E+00	4.13E+00	1.50E+01	U
Surface Water	4/12/2018 21:10	Manganese-54	pCi/L	-2.62E-01	1.12E+00	1.50E+01	U
Surface Water	4/12/2018 21:10	Niobium-95	pCi/L	2.93E-01	1.48E+00	1.50E+01	U
Surface Water	4/12/2018 21:10	Potassium-40	pCi/L	-8.97E+00	2.12E+01		U
Surface Water	4/12/2018 21:10	Ruthenium-103	pCi/L	3.58E-01	1.58E+00		U
Surface Water	4/12/2018 21:10	Ruthenium-106	pCi/L	-3.71E+00	1.01E+01		U
Surface Water	4/12/2018 21:10	Selenium-75	pCi/L	-2.25E-01	1.67E+00		U
Surface Water	4/12/2018 21:10	Silver-108m	pCi/L	-3.80E-01	1.04E+00		U
Surface Water	4/12/2018 21:10	Silver-110m	pCi/L	2.24E-01	1.65E+00		U
Surface Water	4/12/2018 21:10	Thorium-228	pCi/L	1.32E+00	2.79E+00		U
Surface Water	4/12/2018 21:10	Zinc-65	pCi/L	6.35E-01	2.68E+00	3.00E+01	U
Surface Water	4/12/2018 21:10	Zirconium-95	pCi/L	-9.77E-02	2.39E+00	1.50E+01	U
Surface Water	2/12/2018 22:12	Tritium	pCi/L	1.32E+04	4.48E+02	2.00E+03	
Surface Water	5/15/2018 9:29	Actinium-228	pCi/L	-6.57E-01	7.13E+00		U
Surface Water	5/15/2018 9:29	Antimony-124	pCi/L	2.08E-01	4.70E+00		U
Surface Water	5/15/2018 9:29	Antimony-125	pCi/L	-7.55E-01	3.63E+00		U
Surface Water	5/15/2018 9:29	Barium-140	pCi/L	1.46E+00	1.61E+01	1.50E+01	DLU
Surface Water	5/15/2018 9:29	Beryllium-7	pCi/L	-1.57E+00	1.44E+01		U
Surface Water	5/15/2018 9:29	Cerium-141	pCi/L	-5.30E+00	3.08E+00		U
Surface Water	5/15/2018 9:29	Cerium-144	pCi/L	1.29E+00	8.97E+00		U
Surface Water	5/15/2018 9:29	Cesium-134	pCi/L	-2.89E-01	1.54E+00	1.50E+01	U
Surface Water	5/15/2018 9:29	Cesium-137	pCi/L	-2.29E-01	1.45E+00	1.80E+01	U

Surface Water	5/15/2018 9:29	Chromium-51	pCi/L	5.55E+00	1.94E+01		U
Surface Water	5/15/2018 9:29	Cobalt-57	pCi/L	-2.38E-01	1.17E+00		U
Surface Water	5/15/2018 9:29	Cobalt-58	pCi/L	-8.64E-01	1.67E+00	1.50E+01	U
Surface Water	5/15/2018 9:29	Cobalt-60	pCi/L	3.23E-01	1.76E+00	1.50E+01	U
Surface Water	5/15/2018 9:29	Iodine-131	pCi/L	5.48E-01	9.09E+00		U
Surface Water	5/15/2018 9:29	Iron-59	pCi/L	-1.35E+00	4.01E+00	3.00E+01	U
Surface Water	5/15/2018 9:29	Lanthanum-140	pCi/L	-3.25E+00	6.07E+00	1.50E+01	U
Surface Water	5/15/2018 9:29	Manganese-54	pCi/L	-4.96E-01	1.45E+00	1.50E+01	U
Surface Water	5/15/2018 9:29	Niobium-95	pCi/L	1.11E+00	1.81E+00	1.50E+01	U
Surface Water	5/15/2018 9:29	Potassium-40	pCi/L	1.55E+01	1.68E+01		U
Surface Water	5/15/2018 9:29	Ruthenium-103	pCi/L	-7.87E-01	1.87E+00		U
Surface Water	5/15/2018 9:29	Ruthenium-106	pCi/L	5.32E-01	1.35E+01		U
Surface Water	5/15/2018 9:29	Selenium-75	pCi/L	2.90E-01	1.96E+00		U
Surface Water	5/15/2018 9:29	Silver-108m	pCi/L	1.43E-01	1.24E+00		U
Surface Water	5/15/2018 9:29	Silver-110m	pCi/L	1.12E+00	2.20E+00		U
Surface Water	5/15/2018 9:29	Thorium-228	pCi/L	4.08E+00	3.24E+00		UI
Surface Water	5/15/2018 9:29	Zinc-65	pCi/L	4.19E-01	3.40E+00	3.00E+01	U
Surface Water	5/15/2018 9:29	Zirconium-95	pCi/L	3.06E-01	2.91E+00	1.50E+01	U
Surface Water	6/13/2018 22:29	Actinium-228	pCi/L	-3.30E+00	5.03E+00		U
Surface Water	6/13/2018 22:29	Antimony-124	pCi/L	-1.67E+00	2.66E+00		U
Surface Water	6/13/2018 22:29	Antimony-125	pCi/L	-4.50E-02	3.03E+00		U
Surface Water	6/13/2018 22:29	Barium-140	pCi/L	-3.05E+00	8.67E+00	1.50E+01	U
Surface Water	6/13/2018 22:29	Beryllium-7	pCi/L	1.53E+00	1.07E+01		U
Surface Water	6/13/2018 22:29	Cerium-141	pCi/L	4.27E-01	2.37E+00		U
Surface Water	6/13/2018 22:29	Cerium-144	pCi/L	-1.18E+00	7.71E+00		U
Surface Water	6/13/2018 22:29	Cesium-134	pCi/L	4.37E-01	1.25E+00	1.50E+01	U
Surface Water	6/13/2018 22:29	Cesium-137	pCi/L	-9.56E-02	1.16E+00	1.80E+01	U
Surface Water	6/13/2018 22:29	Chromium-51	pCi/L	-1.03E+00	1.35E+01		U
Surface Water	6/13/2018 22:29	Cobalt-57	pCi/L	9.33E-02	1.03E+00		U
Surface Water	6/13/2018 22:29	Cobalt-58	pCi/L	1.87E-01	1.20E+00	1.50E+01	U
Surface Water	6/13/2018 22:29	Cobalt-60	pCi/L	1.60E-01	1.13E+00	1.50E+01	U
Surface Water	6/13/2018 22:29	Iodine-131	pCi/L	-6.58E-01	4.42E+00		U
Surface Water	6/13/2018 22:29	Iron-59	pCi/L	-1.94E-01	2.61E+00	3.00E+01	U
Surface Water	6/13/2018 22:29	Lanthanum-140	pCi/L	-2.14E+00	2.88E+00	1.50E+01	U
Surface Water	6/13/2018 22:29	Manganese-54	pCi/L	5.57E-01	1.26E+00	1.50E+01	U
Surface Water	6/13/2018 22:29	Niobium-95	pCi/L	-2.51E-01	1.25E+00	1.50E+01	U
Surface Water	6/13/2018 22:29	Potassium-40	pCi/L	1.30E+01	1.10E+01		UI
Surface Water	6/13/2018 22:29	Ruthenium-103	pCi/L	-4.51E-01	1.35E+00		U
Surface Water	6/13/2018 22:29	Ruthenium-106	pCi/L	-2.06E+00	9.53E+00		U
Surface Water	6/13/2018 22:29	Selenium-75	pCi/L	5.20E-01	1.68E+00		U
Surface Water	6/13/2018 22:29	Silver-108m	pCi/L	1.77E-01	1.01E+00		U
Surface Water	6/13/2018 22:29	Silver-110m	pCi/L	7.45E-01	1.56E+00		U
Surface Water	6/13/2018 22:29	Thorium-228	pCi/L	-3.67E-01	2.50E+00		U
Surface Water	6/13/2018 22:29	Zinc-65	pCi/L	4.12E-01	2.59E+00	3.00E+01	U

Surface Water	6/13/2018 22:29	Zirconium-95	pCi/L	-6.05E-01	2.17E+00	1.50E+01	U
Surface Water	7/16/2018 9:00	Actinium-228	pCi/L	-7.76E+00	6.27E+00		U
Surface Water	7/16/2018 9:00	Antimony-124	pCi/L	4.32E-01	3.68E+00		U
Surface Water	7/16/2018 9:00	Antimony-125	pCi/L	4.45E-01	3.61E+00		U
Surface Water	7/16/2018 9:00	Barium-140	pCi/L	9.62E-01	1.18E+01	1.50E+01	U
Surface Water	7/16/2018 9:00	Beryllium-7	pCi/L	-4.64E+00	1.28E+01		U
Surface Water	7/16/2018 9:00	Cerium-141	pCi/L	-1.50E+00	2.88E+00		U
Surface Water	7/16/2018 9:00	Cerium-144	pCi/L	-1.85E+00	8.76E+00		U
Surface Water	7/16/2018 9:00	Cesium-134	pCi/L	-2.84E-02	1.41E+00	1.50E+01	U
Surface Water	7/16/2018 9:00	Cesium-137	pCi/L	1.35E+00	1.26E+00	1.80E+01	UI
Surface Water	7/16/2018 9:00	Chromium-51	pCi/L	1.15E+01	1.57E+01		U
Surface Water	7/16/2018 9:00	Cobalt-57	pCi/L	4.37E-01	1.17E+00		U
Surface Water	7/16/2018 9:00	Cobalt-58	pCi/L	-1.77E-02	1.47E+00	1.50E+01	U
Surface Water	7/16/2018 9:00	Cobalt-60	pCi/L	3.73E-01	1.39E+00	1.50E+01	U
Surface Water	7/16/2018 9:00	Iodine-131	pCi/L	-2.49E+00	6.52E+00		U
Surface Water	7/16/2018 9:00	Iron-59	pCi/L	-1.09E-01	3.14E+00	3.00E+01	U
Surface Water	7/16/2018 9:00	Lanthanum-140	pCi/L	-1.44E+00	3.62E+00	1.50E+01	U
Surface Water	7/16/2018 9:00	Manganese-54	pCi/L	7.80E-01	1.34E+00	1.50E+01	U
Surface Water	7/16/2018 9:00	Niobium-95	pCi/L	5.27E-01	1.39E+00	1.50E+01	U
Surface Water	7/16/2018 9:00	Potassium-40	pCi/L	2.19E+01	1.21E+01		
Surface Water	7/16/2018 9:00	Ruthenium-103	pCi/L	1.57E+00	1.89E+00		U
Surface Water	7/16/2018 9:00	Ruthenium-106	pCi/L	6.02E-01	1.17E+01		U
Surface Water	7/16/2018 9:00	Selenium-75	pCi/L	1.22E+00	1.94E+00		U
Surface Water	7/16/2018 9:00	Silver-108m	pCi/L	-4.15E-02	1.18E+00		U
Surface Water	7/16/2018 9:00	Silver-110m	pCi/L	-5.87E-01	1.78E+00		U
Surface Water	7/16/2018 9:00	Thorium-228	pCi/L	3.31E-01	2.98E+00		U
Surface Water	7/16/2018 9:00	Zinc-65	pCi/L	-2.64E+00	2.72E+00	3.00E+01	U
Surface Water	7/16/2018 9:00	Zirconium-95	pCi/L	-6.36E-02	2.71E+00	1.50E+01	U
Surface Water	5/14/2018 10:29	Tritium	pCi/L	1.27E+04	5.86E+02	2.00E+03	
Surface Water	8/14/2018 21:43	Actinium-228	pCi/L	-4.78E+00	6.90E+00		U
Surface Water	8/14/2018 21:43	Antimony-124	pCi/L	-7.78E-01	3.72E+00		U
Surface Water	8/14/2018 21:43	Antimony-125	pCi/L	2.60E-01	3.98E+00		U
Surface Water	8/14/2018 21:43	Barium-140	pCi/L	4.44E+00	1.70E+01	1.50E+01	DLU
Surface Water	8/14/2018 21:43	Beryllium-7	pCi/L	-1.91E+00	1.47E+01		U
Surface Water	8/14/2018 21:43	Cerium-141	pCi/L	-2.03E+00	3.15E+00		U
Surface Water	8/14/2018 21:43	Cerium-144	pCi/L	-4.16E+00	8.75E+00		U
Surface Water	8/14/2018 21:43	Cesium-134	pCi/L	-5.50E-01	1.49E+00	1.50E+01	U
Surface Water	8/14/2018 21:43	Cesium-137	pCi/L	2.35E-01	1.54E+00	1.80E+01	U
Surface Water	8/14/2018 21:43	Chromium-51	pCi/L	-4.99E+00	1.96E+01		U
Surface Water	8/14/2018 21:43	Cobalt-57	pCi/L	2.27E-01	1.17E+00		U
Surface Water	8/14/2018 21:43	Cobalt-58	pCi/L	1.60E-01	1.66E+00	1.50E+01	U
Surface Water	8/14/2018 21:43	Cobalt-60	pCi/L	-5.74E-01	1.52E+00	1.50E+01	U
Surface Water	8/14/2018 21:43	Iodine-131	pCi/L	1.73E+00	9.42E+00		U
Surface Water	8/14/2018 21:43	Iron-59	pCi/L	-6.25E-01	3.71E+00	3.00E+01	U

Surface Water	8/14/2018 21:43	Lanthanum-140	pCi/L	-7.70E-01	5.86E+00	1.50E+01	U
Surface Water	8/14/2018 21:43	Manganese-54	pCi/L	3.01E-01	1.56E+00	1.50E+01	U
Surface Water	8/14/2018 21:43	Niobium-95	pCi/L	-1.84E+00	1.79E+00	1.50E+01	U
Surface Water	8/14/2018 21:43	Potassium-40	pCi/L	1.49E+01	1.47E+01		UI
Surface Water	8/14/2018 21:43	Ruthenium-103	pCi/L	-4.77E-01	1.99E+00		U
Surface Water	8/14/2018 21:43	Ruthenium-106	pCi/L	1.95E+00	1.36E+01		U
Surface Water	8/14/2018 21:43	Selenium-75	pCi/L	-1.02E-02	2.04E+00		U
Surface Water	8/14/2018 21:43	Silver-108m	pCi/L	6.47E-01	1.37E+00		U
Surface Water	8/14/2018 21:43	Silver-110m	pCi/L	-3.51E-01	2.08E+00		U
Surface Water	8/14/2018 21:43	Thorium-228	pCi/L	1.12E+00	2.92E+00		U
Surface Water	8/14/2018 21:43	Zinc-65	pCi/L	-4.63E-01	3.09E+00	3.00E+01	U
Surface Water	8/14/2018 21:43	Zirconium-95	pCi/L	-1.65E+00	3.18E+00	1.50E+01	U
Surface Water	9/13/2018 9:30	Actinium-228	pCi/L	4.70E+00	6.47E+00		U
Surface Water	9/13/2018 9:30	Antimony-124	pCi/L	2.00E+00	4.38E+00		U
Surface Water	9/13/2018 9:30	Antimony-125	pCi/L	9.03E-01	3.92E+00		U
Surface Water	9/13/2018 9:30	Barium-140	pCi/L	-3.85E-01	1.49E+01	1.50E+01	U
Surface Water	9/13/2018 9:30	Beryllium-7	pCi/L	-3.07E+00	1.44E+01		U
Surface Water	9/13/2018 9:30	Cerium-141	pCi/L	-2.59E+00	3.14E+00		U
Surface Water	9/13/2018 9:30	Cerium-144	pCi/L	-3.40E+00	8.49E+00		U
Surface Water	9/13/2018 9:30	Cesium-134	pCi/L	1.59E-01	1.69E+00	1.50E+01	U
Surface Water	9/13/2018 9:30	Cesium-137	pCi/L	4.79E-02	1.54E+00	1.80E+01	U
Surface Water	9/13/2018 9:30	Chromium-51	pCi/L	2.14E+01	1.83E+01		UI
Surface Water	9/13/2018 9:30	Cobalt-57	pCi/L	9.45E-01	1.08E+00		U
Surface Water	9/13/2018 9:30	Cobalt-58	pCi/L	1.45E-01	1.74E+00	1.50E+01	U
Surface Water	9/13/2018 9:30	Cobalt-60	pCi/L	3.96E-01	1.58E+00	1.50E+01	U
Surface Water	9/13/2018 9:30	Iodine-131	pCi/L	1.59E+00	7.59E+00		U
Surface Water	9/13/2018 9:30	Iron-59	pCi/L	-1.69E+00	3.75E+00	3.00E+01	U
Surface Water	9/13/2018 9:30	Lanthanum-140	pCi/L	-1.27E+00	4.98E+00	1.50E+01	U
Surface Water	9/13/2018 9:30	Manganese-54	pCi/L	-4.69E-01	1.40E+00	1.50E+01	U
Surface Water	9/13/2018 9:30	Niobium-95	pCi/L	5.11E-01	1.79E+00	1.50E+01	U
Surface Water	9/13/2018 9:30	Potassium-40	pCi/L	5.65E+00	1.32E+01		U
Surface Water	9/13/2018 9:30	Ruthenium-103	pCi/L	-5.78E-01	1.88E+00		U
Surface Water	9/13/2018 9:30	Ruthenium-106	pCi/L	-2.96E+00	1.37E+01		U
Surface Water	9/13/2018 9:30	Selenium-75	pCi/L	1.05E+00	2.03E+00		U
Surface Water	9/13/2018 9:30	Silver-108m	pCi/L	4.91E-01	1.28E+00		U
Surface Water	9/13/2018 9:30	Silver-110m	pCi/L	-1.73E-03	2.11E+00		U
Surface Water	9/13/2018 9:30	Thorium-228	pCi/L	1.27E+00	2.43E+00		U
Surface Water	9/13/2018 9:30	Zinc-65	pCi/L	-1.59E+00	2.97E+00	3.00E+01	U
Surface Water	9/13/2018 9:30	Zirconium-95	pCi/L	-2.19E+00	2.87E+00	1.50E+01	U
Surface Water	10/15/2018 21:42	Actinium-228	pCi/L	2.26E+00	4.15E+00		U
Surface Water	10/15/2018 21:42	Antimony-124	pCi/L	-2.68E-01	3.56E+00		U
Surface Water	10/15/2018 21:42	Antimony-125	pCi/L	3.20E-01	3.28E+00		U
Surface Water	10/15/2018 21:42	Barium-140	pCi/L	-3.24E-01	1.36E+01	1.50E+01	U
Surface Water	10/15/2018 21:42	Beryllium-7	pCi/L	-3.82E+00	1.28E+01		U

Surface Water	10/15/2018 21:42	Cerium-141	pCi/L	9.47E-01	2.97E+00		U
Surface Water	10/15/2018 21:42	Cerium-144	pCi/L	-4.33E-01	7.89E+00		U
Surface Water	10/15/2018 21:42	Cesium-134	pCi/L	8.89E-01	1.24E+00	1.50E+01	U
Surface Water	10/15/2018 21:42	Cesium-137	pCi/L	-1.19E+00	1.70E+00	1.80E+01	U
Surface Water	10/15/2018 21:42	Chromium-51	pCi/L	-1.07E+01	1.57E+01		U
Surface Water	10/15/2018 21:42	Cobalt-57	pCi/L	1.14E-01	1.06E+00		U
Surface Water	10/15/2018 21:42	Cobalt-58	pCi/L	-2.51E-01	1.29E+00	1.50E+01	U
Surface Water	10/15/2018 21:42	Cobalt-60	pCi/L	2.19E-01	1.32E+00	1.50E+01	U
Surface Water	10/15/2018 21:42	Iodine-131	pCi/L	-1.92E+00	7.55E+00		U
Surface Water	10/15/2018 21:42	Iron-59	pCi/L	-8.65E-01	3.02E+00	3.00E+01	U
Surface Water	10/15/2018 21:42	Lanthanum-140	pCi/L	-2.14E+00	4.50E+00	1.50E+01	U
Surface Water	10/15/2018 21:42	Manganese-54	pCi/L	-2.60E-01	1.20E+00	1.50E+01	U
Surface Water	10/15/2018 21:42	Niobium-95	pCi/L	-1.94E+00	1.40E+00	1.50E+01	U
Surface Water	10/15/2018 21:42	Potassium-40	pCi/L	-5.89E+00	1.99E+01		U
Surface Water	10/15/2018 21:42	Ruthenium-103	pCi/L	-1.04E+00	1.54E+00		U
Surface Water	10/15/2018 21:42	Ruthenium-106	pCi/L	2.30E+00	1.14E+01		U
Surface Water	10/15/2018 21:42	Selenium-75	pCi/L	1.32E-01	1.73E+00		U
Surface Water	10/15/2018 21:42	Silver-108m	pCi/L	7.37E-01	1.15E+00		U
Surface Water	10/15/2018 21:42	Silver-110m	pCi/L	-5.34E-01	1.68E+00		U
Surface Water	10/15/2018 21:42	Thorium-228	pCi/L	8.76E-01	2.94E+00		U
Surface Water	10/15/2018 21:42	Zinc-65	pCi/L	6.24E-02	2.65E+00	3.00E+01	U
Surface Water	10/15/2018 21:42	Zirconium-95	pCi/L	3.53E-01	2.27E+00	1.50E+01	U
Surface Water	8/13/2018 9:30	Tritium	pCi/L	1.12E+04	4.29E+02	2.00E+03	
Surface Water	11/14/2018 10:15	Actinium-228	pCi/L	-2.07E+00	5.95E+00		U
Surface Water	11/14/2018 10:15	Antimony-124	pCi/L	-4.49E-01	3.44E+00		U
Surface Water	11/14/2018 10:15	Antimony-125	pCi/L	6.55E-01	3.28E+00		U
Surface Water	11/14/2018 10:15	Barium-140	pCi/L	3.06E+00	1.22E+01	1.50E+01	U
Surface Water	11/14/2018 10:15	Beryllium-7	pCi/L	-4.78E+00	1.21E+01		U
Surface Water	11/14/2018 10:15	Cerium-141	pCi/L	-2.38E-01	2.73E+00		U
Surface Water	11/14/2018 10:15	Cerium-144	pCi/L	1.99E+00	8.34E+00		U
Surface Water	11/14/2018 10:15	Cesium-134	pCi/L	2.70E-01	1.35E+00	1.50E+01	U
Surface Water	11/14/2018 10:15	Cesium-137	pCi/L	-1.02E+00	1.70E+00	1.80E+01	U
Surface Water	11/14/2018 10:15	Chromium-51	pCi/L	-5.74E+00	1.49E+01		U
Surface Water	11/14/2018 10:15	Cobalt-57	pCi/L	3.21E-02	1.08E+00		U
Surface Water	11/14/2018 10:15	Cobalt-58	pCi/L	1.06E-01	1.42E+00	1.50E+01	U
Surface Water	11/14/2018 10:15	Cobalt-60	pCi/L	-3.58E-01	1.14E+00	1.50E+01	U
Surface Water	11/14/2018 10:15	Iodine-131	pCi/L	2.00E-02	6.55E+00		U
Surface Water	11/14/2018 10:15	Iron-59	pCi/L	2.81E+00	3.26E+00	3.00E+01	U
Surface Water	11/14/2018 10:15	Lanthanum-140	pCi/L	5.28E-02	4.19E+00	1.50E+01	U
Surface Water	11/14/2018 10:15	Manganese-54	pCi/L	-2.24E-01	1.14E+00	1.50E+01	U
Surface Water	11/14/2018 10:15	Niobium-95	pCi/L	3.45E-01	1.44E+00	1.50E+01	U
Surface Water	11/14/2018 10:15	Potassium-40	pCi/L	1.09E+01	1.23E+01		U
Surface Water	11/14/2018 10:15	Ruthenium-103	pCi/L	7.76E-02	1.49E+00		U
Surface Water	11/14/2018 10:15	Ruthenium-106	pCi/L	-1.07E-01	1.07E+01		U

Surface Water	11/14/2018 10:15	Selenium-75	pCi/L	-6.30E-02	1.71E+00		U
Surface Water	11/14/2018 10:15	Silver-108m	pCi/L	-3.48E-02	1.04E+00		U
Surface Water	11/14/2018 10:15	Silver-110m	pCi/L	-1.51E-01	1.58E+00		U
Surface Water	11/14/2018 10:15	Thorium-228	pCi/L	-2.64E+00	2.81E+00		U
Surface Water	11/14/2018 10:15	Zinc-65	pCi/L	7.15E-01	2.44E+00	3.00E+01	U
Surface Water	11/14/2018 10:15	Zirconium-95	pCi/L	7.27E-01	2.62E+00	1.50E+01	U
Surface Water	12/13/2018 9:53	Actinium-228	pCi/L	3.62E-01	5.85E+00		U
Surface Water	12/13/2018 9:53	Antimony-124	pCi/L	1.87E-01	3.77E+00		U
Surface Water	12/13/2018 9:53	Antimony-125	pCi/L	-1.88E+00	3.32E+00		U
Surface Water	12/13/2018 9:53	Barium-140	pCi/L	2.55E+00	1.49E+01	1.50E+01	U
Surface Water	12/13/2018 9:53	Beryllium-7	pCi/L	-1.59E+00	1.36E+01		U
Surface Water	12/13/2018 9:53	Cerium-141	pCi/L	-2.14E+00	2.77E+00		U
Surface Water	12/13/2018 9:53	Cerium-144	pCi/L	-3.88E+00	7.38E+00		U
Surface Water	12/13/2018 9:53	Cesium-134	pCi/L	1.13E+00	1.60E+00	1.50E+01	U
Surface Water	12/13/2018 9:53	Cesium-137	pCi/L	6.98E-01	1.46E+00	1.80E+01	U
Surface Water	12/13/2018 9:53	Chromium-51	pCi/L	1.47E+01	1.65E+01		U
Surface Water	12/13/2018 9:53	Cobalt-57	pCi/L	3.22E-01	9.77E-01		U
Surface Water	12/13/2018 9:53	Cobalt-58	pCi/L	-3.65E-01	1.48E+00	1.50E+01	U
Surface Water	12/13/2018 9:53	Cobalt-60	pCi/L	-4.05E-01	1.26E+00	1.50E+01	U
Surface Water	12/13/2018 9:53	Iodine-131	pCi/L	1.97E+00	8.31E+00		U
Surface Water	12/13/2018 9:53	Iron-59	pCi/L	-7.12E-01	3.23E+00	3.00E+01	U
Surface Water	12/13/2018 9:53	Lanthanum-140	pCi/L	-1.21E+00	5.04E+00	1.50E+01	U
Surface Water	12/13/2018 9:53	Manganese-54	pCi/L	3.86E-01	1.35E+00	1.50E+01	U
Surface Water	12/13/2018 9:53	Niobium-95	pCi/L	7.38E-01	1.74E+00	1.50E+01	U
Surface Water	12/13/2018 9:53	Potassium-40	pCi/L	2.38E+01	1.39E+01		UI
Surface Water	12/13/2018 9:53	Ruthenium-103	pCi/L	-5.13E-01	1.66E+00		U
Surface Water	12/13/2018 9:53	Ruthenium-106	pCi/L	5.81E+00	1.33E+01		U
Surface Water	12/13/2018 9:53	Selenium-75	pCi/L	-3.66E-01	1.79E+00		U
Surface Water	12/13/2018 9:53	Silver-108m	pCi/L	2.36E-01	1.13E+00		U
Surface Water	12/13/2018 9:53	Silver-110m	pCi/L	1.04E-01	1.93E+00		U
Surface Water	12/13/2018 9:53	Thorium-228	pCi/L	-5.40E-01	2.56E+00		U
Surface Water	12/13/2018 9:53	Zinc-65	pCi/L	4.01E-01	3.01E+00	3.00E+01	U
Surface Water	12/13/2018 9:53	Zirconium-95	pCi/L	5.63E-01	2.88E+00	1.50E+01	U
Surface Water	11/12/2018 21:53	Tritium	pCi/L	1.32E+04	5.99E+02	2.00E+03	

Notes:

1. LLDs are a-priori values.
2. MDCs are calculated a-posteriori values.
3. Gamma spectroscopy analysis results are calculated from a measurement using only one gamma energ
4. Air sample volumes are received in units of ft3. GEL converts the units and reports them as m3.

QUALIFIERS:

U Target isotope was analyzed for but not detected above the MDC or LLD.
UI Uncertain identification for gamma spectroscopy.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project manage
M Reported result is less than the LLD and greater than the MDC.
DL DL MDC > LLD.

Appendix B

Comanche Peak Nuclear Power Plant
Land Use Census
2018

COPY

LAND USE CENSUS 2018

The Land Use Census identified receptors within a five (5) mile radius of the plant in each of the sixteen (16) meteorological sectors. The Land Use Census was conducted June 4-7, 2018 and includes the following items:

1. Evaluation of the 2018 Land Use Census
2. Nearest Resident by Sector, Distance, X/Q and D/Q
3. Nearest Garden by Sector, Distance and D/Q
4. Nearest Milk Animal by Sector, Distance and D/Q
5. Population by Sector and Distance
6. Environmental Sample Locations Table
7. Environmental Monitoring Locations Map – 2 Mile Radius
8. 5 Mile Sector and Road Map with Field Data*
9. Environmental Monitoring Locations Map – all sample locations*

*These maps are vaulted along with this census. Copies of this census will not contain a copy of these maps unless specifically requested.

Evaluation of the 2018 Land Use Census

The results of the 2018 Land Use Census were reviewed for impact on the Radiological Environmental Monitoring Program (REMP). The specific areas reviewed, that could be affected by changes found in the land use census, were the sampling requirements for milk, broadleaf vegetation and food products.

Reviewing the milk sampling requirements from the ODCM Table 3.12-1 requires that samples are to be obtained from milking animals in three locations within a 5 km distance having the highest potential dose. If none are available, samples are acceptable from milking animals in locations 5 to 8 km distance where doses are calculated to be greater than 1 mRem per year. A sample is also required at a control location. There are currently no identified milking animals (cow or goat) within the specified distances therefore; there are no current milk samples during the year 2018.

If no milk samples are available, the broadleaf vegetation sampling specified in ODCM Table 3.12-1 will be performed. Broadleaf sample requirements are such that samples of broadleaf vegetation are to be collected from each of two offsite locations of the highest predicted annual average D/Q if milk sampling is not performed at all the required locations. Currently, broadleaf vegetation samples are collected at two indicator locations (N - 1.45 and SW - 1.0) and one control location (SW - 13.5). These indicator locations are near the site boundary in sectors where broadleaf vegetation is available and D/Q is high. Therefore, no change to the broadleaf sampling program is required.

Food product sample requirements of ODCM Table 3.12-1 requires that one sample of each principal class of food product be collected from any area that is irrigated with water in which liquid plant waste has been discharged. Of the gardens identified in the land use census, no gardens are located in any area that irrigates with water in which liquid plant wastes are discharged. Currently, food products are sampled from two locations (ENE - 9.0) and (E-4.2) when in season. The location ENE-9.0 is for pecans at time of harvest and location E-4.2 will continue to be a major source of food products sold to the public.

The location E-4.2 had cucumbers which were collected from this location as a conservative measure. This garden does not meet the ODCM Table 3.12-1 requirements because the products are not irrigated by water in which liquid plant wastes have been discharged.

Calculated values for the associated X/Q and D/Q values for each controlling receptor location and pathway are included along with the receptor distances in the data tables of this land use census. The values used to determine potential dose due to radioactive effluent discharges are the highest calculated values based on annual average values. The following values are based on the original pre-operational and subsequent Comanche Peak 3 and 4 new build calculations which identified predominant wind direction, structures affecting potential release patterns, and area population. The annual average X/Q used for dose calculations is 3.30E-6, tritium X/Q is 4.36E-6, and the D/Q value is 3.34 E-8. All these values are conservative based on the 2017 Land Use Census data and therefore no changes are required in the dose calculation parameters as verified by the field data.

* X/Q units are Sec/cubic meter * D/Q units are inverse square meters

Nearest Resident by Sector, Distance, X/Q and D/Q

Sector	Distance (Miles)	X/Q	D/Q
N	2.6	6.39E-07	3.50E-09
NNE	2.5	4.20E-07	2.00E-09
NE	2.5	2.90E-07	1.00E-09
ENE	2.6	2.20E-07	5.77E-10
E	2.5	2.70E-07	5.80E-10
ESE	2.2	4.02E-07	9.00E-10
SE	2.0	7.1E-07	2.80E-09
SSE	1.5	1.10E-06	6.60E-09
S	1.5	8.50E-07	5.20E-09
SSW	1.8	5.04 E-7	2.42 E-9
SW	0.8	3.56E-06	1.85E-08
WSW	0.8	3.92E-06	1.63E-08
W	1.6	7.64E-07	2.50E-09
WNW	2.5	4.70E-07	1.40E-09
NW	4.8	2.52E-07	6.20E-10
NNW	2.2	1.12E-06	5.16E-09

Note: The Annual Average X/Q used for dose calculations is 3.30E-06 sec/cubic meter.
The Tritium value X/Q used for dose calculations is 4.36E-06 sec/cubic meter.
The Annual Average D/Q used for dose calculations is 3.34E-08 inverse square meters.

Nearest Garden by Sector, Distance and D/Q

Sector	Distance (Miles)*	D/Q
N	None	None
NNE	None	None
NE	None	None
ENE	None	None
E	4.2	2.00E-10
ESE	None	None
SE	None	None
SSE	None	None
S	None	None
SSW	None	None
SW	None	None
WSW	None	None
W	None	None
WNW	None	None
NW	None	None
NNW	None	None

Nearest Milk Animal by Sector, Distance and D/Q

Sector	Distance (Miles)*	D/Q
N	None	None
NNE	None	None
NE	None	None
ENE	None	None
E	None	None
ESE	None	None
SE	None	None
SSE	None	None
S	None	None
SSW	None	None
SW	None	None
WSW	None	None
W	None	None
WNW	None	None
NW	None	None
NNW	None	None

*No Milk samples are currently being collected.

Population by Sector and Distance

Sector	0-1	1-2	2-3	3-4	4-5	Total
N	-	-	12	71	107	190
NNE	-	-	8	71	59	138
NE	-	-	170	169	303	642
ENE	-	-	107	27	20	154
E	-	-	180	198	37	415
ESE	-	-	88	107	147	342
SE	-	-	205	407	109	721
SSE	-	96	133	118	2646	2933
S	-	30	123	59	297	509
SSW	-	6	8	8	70	92
SW	8	104	8	85	51	256
WSW	36	157	8	6	-	207
W	-	103	10	17	12	142
WNW	-	-	13	52	136	201
NW	-	-	-	-	7	7
NNW	-	-	5	44	49	98
TOTAL	44	496	1078	1439	4050	7047

The average number of residents per house was obtained from North Central Texas Council of Governments for Hood and Somervell Counties. The number of residents per house is 2.46 and 2.58, respectively. (http://www.indexmundi.com/facts/united-states/quick-facts/texas/average-household-size#table)

Hood County, Texas/ Somervell County, Texas

Age

- Persons under 5 years 5.8% / 5.0%
- Persons under 18 years 21.3% / 22.6%
- Persons 65 years and older 24.5% / 18.7%

(Population estimates as of July,1 2017)

Environmental Sample Locations Table

Sampling Point	Location	Sample Type*
A1	N-1.45 (Squaw Creek Park)	A
A2	N-9.4 (Granbury)	A
A3	E-3.5 (Children's Home)	A
A4	SSE-4.5 (Glen Rose)	A
A5	S/SSW-1.2	A
A6	SW-12.3 (CONTROL)	A
A7	SW/WSW-0.95	A
A8	NW-1.0	A
R1	N-1.45 (Squaw Creek Park)	R
R2	N-4.4	R
R3	N-6.5	R
R4	N-9.4 (Granbury)	R
R5	NNE-1.1	R
R6	NNE-5.65	R
R7	NE-1.7	R
R8	NE-4.8	R
R9	ENE-2.5	R
R10	ENE-5.0	R
R11	E-0.5	R
R12	E-1.9	R
R13	E-3.5 (Children's Home)	R
R14	E-4.2	R
R15	ESE-1.4	R
R16	ESE-4.7	R
R17	SE-1.3	R
R18	SE-3.85	R

Environmental Sample Locations Table (cont.)

Sampling Point	Location	Sample Type*
R19	SE-4.6	R
R20	SSE-1.3	R
R21	SSE-4.4 (Glen Rose)	R
R22	SSE-4.5 (Glen Rose)	R
R23	S-1.5	R
R24	S-4.2	R
R25	SSW-1.1	R
R26	SSW-4.4 (State Park)	R
R27	SW-0.9	R
R28	SW-4.8 (Girl Scout Camp)	R
R29	SW-12.3 (CONTROL)	R
R30	WSW-1.0	R
R31	WSW-5.35	R
R32	WSW-7.0 (CONTROL)	R
R33	W-1.0	R
R34	W-2.0	R
R35	W-5.5	R
R36	WNW-1.0	R
R37	WNW-5.0	R
R38	WNW-6.7	R
R39	NW-1.0	R
R40	NW-5.7	R
R41	NW-9.9 (Tolar)	R
R42	NNW-1.35	R
R43	NNW-4.6	R

Environmental Sample Locations Table (cont.)

Sampling Point	Location	Sample Type*
SW1	N-1.5 (Squaw Creek Reservoir Marina)	SW
SW2	N-9.9 (Lake Granbury)	SW/DW[1]
SW3	N-19.3 (CONTROL-Brazos River)	SW
SW4	NE-7.4 (Lake Granbury)	SW
SW5	ESE-1.4 (Squaw Creek Reservoir)	SW[2]
SW6	NNW-0.1 (Squaw Creek Reservoir)	SW/DW[2, 3]
GW1	W-1.2 (Security Rifle Range)	GW[7]
GW2	WSW-0.1 (Somerville Water district)	GW[3, 4,6]
GW3	SSE-4.6 (Glen Rose – Somerville Water District)	GW[4]
GW4	N-9.8 (Granbury)	GW[1, 4,6]
GW5	N-1.45 (Squaw Creek Park)	GW[4]
SS1	NNE-1.0 (Squaw Creek Reservoir)	SS
SS2	N-9.9 (Lake Granbury)	SS
SS3	NE-7.4 (Lake Granbury)	SS
SS4	SE-5.3 (Squaw Creek)	SS
F1	ENE-2.0 (Squaw Creek Reservoir)	F
F2	NNE-8.0 (Lake Granbury)	F
FP1	ENE-9.0 (Leonard Bros. Pecan Farm)	FP
FP2	E-4.2 (Hornick's Produce Farm)	FP

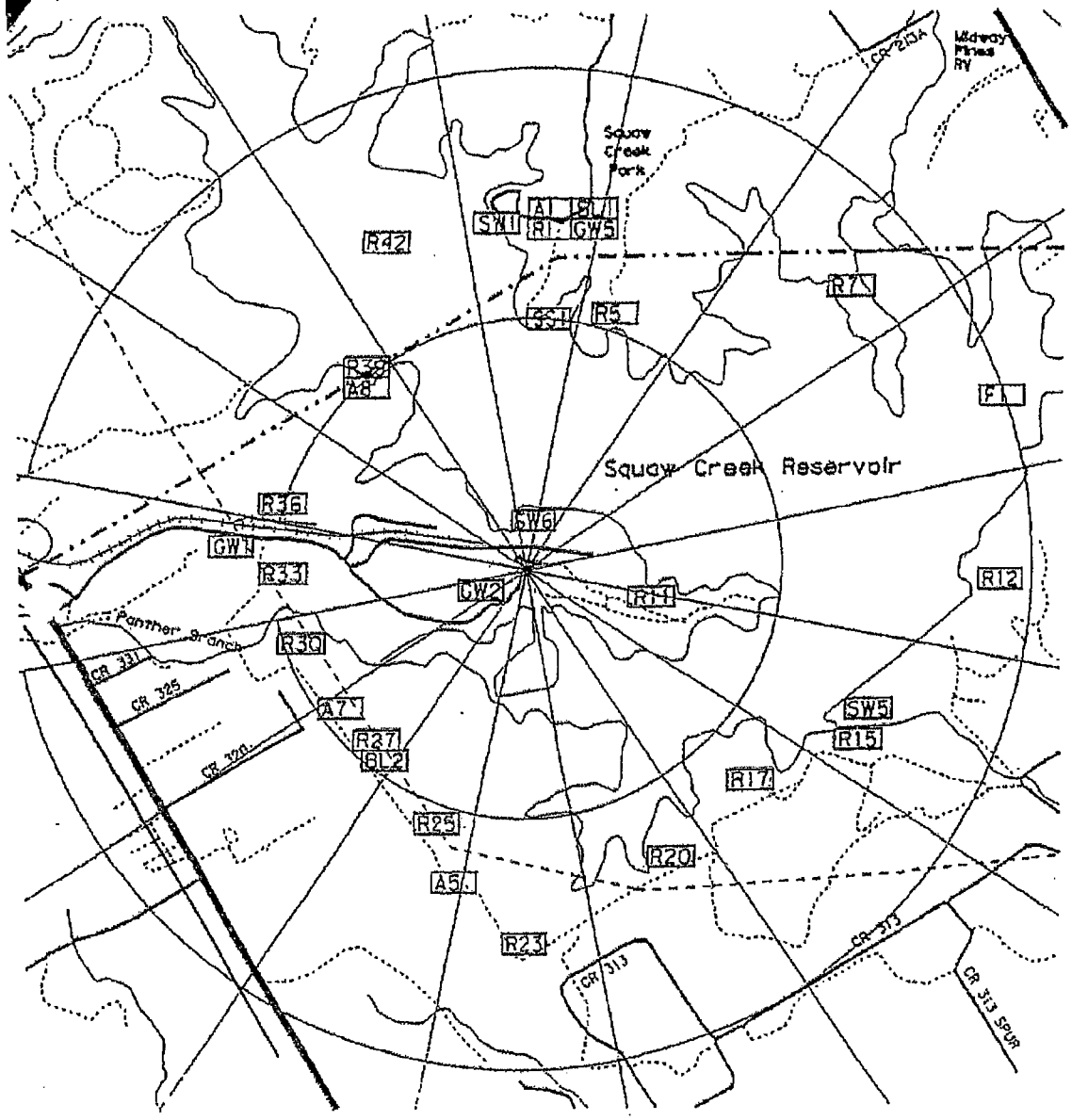
Environmental Sample Locations Table (cont.)

Sampling Point	Location	Sample Type*
BL1	N-1.45	BL
BL2	SW-1.0	BL[5]
BL3	SW-13.5 (CONTROL)	BL[5]

*Sample Type: A - Air Sample; R - Direct Radiation; SW - Surface Water; DW - Drinking Water GW - Ground Water; SS - Shoreline Sediments; M - Milk; F - Fish; FP - Food Products; BL - Broadleaf Vegetation

NOTES:

1. The municipal water system for the City of Granbury is supplied by surface water from Lake Granbury (location SW2) and ground water (location GW4). Each of these supplies is sampled. These samples are not required for compliance with Radiological Effluent Control 3/4.12.1, Table 3.12-1, because they are not affected by plant discharges.
2. This sample (location SW6) is representative of discharges from Squaw Creek Reservoir both down Squaw Creek and to Lake Granbury via the return line to Lake Granbury if used.
3. Plant potable water could be supplied by surface water from Squaw Creek Reservoir (location SW6) or ground water from onsite wells (location GW2) but is currently supplied by the Somerville County Water District from the Wheeler Branch Reservoir. Each of these possible sources of water were sampled.
4. Ground water supplies in the plant site area are not affected by plant liquid effluents as discussed in CPSES FSAR Section 2.4.13. However, they are monitored for radioactivity IAW the requirements of the Radiological Effluent Control 3/4.12.1, Table 3.12-1.
5. Broadleaf sampling will be performed at the specified locations if milk samples are unavailable from any location.
6. Plant Potable Water (GW2) and Glen Rose (GW3) are supplied from surface water by the Somerville Water District from the Wheeler Branch Reservoir.
7. CPNPP Security Rifle Range (GW1) is supplied by a local Well.



Environmental Sample Locations Map - 2 Mile Radius