NEXTera® ENERGY SEABROOK

April 30, 2021
Docket No. 50-443
SBK-L-21044

U. S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, D.C. 20555-0001

Seabrook Station
2020 Annual Radiological Environmental Operating Report

Pursuant to the requirements of 10 CFR 50.36a(a)(2) and Seabrook Station Technical Specification 6.8.1.3, NextEra Energy Seabrook, LLC submits the 2020 Annual Radiological Environmental Operating Report. The report summarizes the implementation of the NextEra Energy Seabrook, LLC Radiological Environmental Monitoring Program (REMP). Attachment 1 to the report is the complete data set for the REMP samples.

A copy of this report is also being provided to the Commonwealth of Massachusetts, Department of Public Health; and the State of New Hampshire, Bureau of Radiological Health.

Should you require further information regarding this matter, please contact David Robinson, Chemistry and Radiation Protection Department Manager, at (603) 773-7496.

Sincerely,

NextEra Energy Seabrook, LLC

Matthew Levander
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cc: with enclosure

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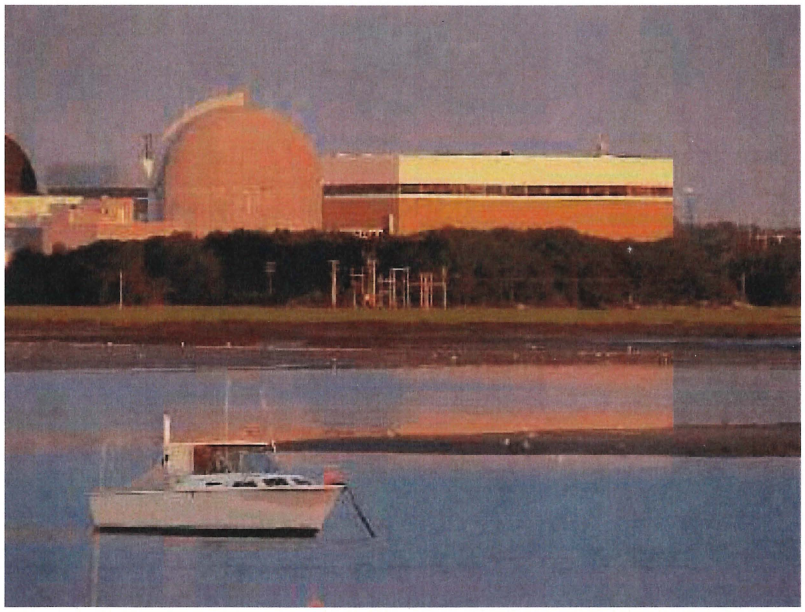
NEXTera ENERGY SEABROOK

2020 Annual Radiological Environmental Operating Report



April 2021

SEABROOK STATION

ANNUAL RADIOLOGICAL ENVIRONMENTAL OPERATING REPORT

For the Period

January - December 2020

Docket No. 50-443

Prepared By:

NextEra Energy Seabrook, LLC
Chemistry Department
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And

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Executive Summary

Both the plant operations and Dry Fuel Storage Radiological Environmental Monitoring Programs (REMP) for Seabrook Station operated successfully for the period of January through December 2020. This report describes the REMP and its implementation as required by Technical Specifications and as defined in the Offsite Dose Calculation Manual (ODCM). It also contains analytical results, data evaluation, dose assessment (as needed), and data trends for each environmental sample medium. Also included are the results of the Land Use Census, historical data, and the environmental laboratory performance in the Quality Assurance Inter-comparison Program required by the ODCM.

Radioactivity levels in the vicinity of Seabrook Station from January 1 through December 31, 2020 in air, water, sediment, milk, fish, food crops, and vegetation, as well as direct radiation measurements have been analyzed, evaluated, and summarized. The results of the REMP are intended to supplement the results of the radiological effluent monitoring by verifying that any measurable concentration of radioactive materials and levels of radiation are not higher than expected on the basis of the effluent measurement and modeling of the environmental exposure pathways.

Radiation and radioactivity in the environment is monitored within a 10-mile radius of the site. Two types of samples are taken. The first type, control samples, is collected from areas that are beyond measurable influence of Seabrook Station. These samples are used as reference data. Normal background radiation levels, or radiation present due to causes other than Seabrook Station, can thus be compared to the environment surrounding the nuclear power station. Indicator samples are the second sample type obtained. These samples show how much measureable radiation or radioactivity (if any) is contributed to the environment by the site. Indicator samples are taken from areas close to the station where any plant contribution will be at the highest potential concentration. The ODCM minimum required plant operations REMP included the collection for 2020 of at least 576 samples, with a total of 2416 individual measurement analyses. In 2020, the total number of sample analysis sets (both required and non-required) equaled 827 taken from 98 locations around Seabrook Station. These were collected from aquatic, atmospheric, and terrestrial environments. An estimated 5095 individual measurement analyses were performed on these samples. The plant operations radiological environmental monitoring program is outlined in Table 2.0-1. Radiation environmental monitoring associated with Dry Fuel Storage (DFS) in 2020 included an additional 19 TLD direct radiation measurements beyond those listed as being part of the REMP. The DFS environmental monitoring program is shown on Table 4.0-1.

Prior to station operation, samples were collected and analyzed to determine the amount of radioactivity present in the area. The resulting values are used as a "pre-operational baseline." Current analysis results from the indicator samples are compared to both current control sample values and the pre-operational baseline to determine if changes in radioactivity levels are attributable to station operations.

A report is required to be submitted to the Nuclear Regulatory Commission when the level of radioactivity as a result of plant operations in an environmental sampling medium at a specified location exceeds the reporting level limits specified in the ODCM when averaged over any calendar quarter. Also, when more than one of the radionuclides is detected in the sampling medium, this report shall be submitted if:

$$\frac{\text{Concentration (1)}}{\text{Limit Level (1)}} + \frac{\text{Concentration (2)}}{\text{Limit Level (2)}} + \ldots \geq 1.0$$

Based on the analytical results of environmental samples during 2020, Seabrook Station reporting levels were not exceeded.

All off-site radioactivity detected was attributable to either naturally-occurring radionuclides, previous nuclear weapons tests, the Fukushima Daiichi nuclear accident in Japan on March 11, 2011, or other man-made sources.

In 2020, the maximum whole body dose to the hypothetically exposed individual due to Seabrook Station effluents and operations was estimated to be 0.0809 mrem. This whole body dose is the sum of all the exposure pathways for liquid and gaseous effluents, plus the direct whole body dose from station sources. This total represents approximately 0.324% of the whole body dose limits for a member of the public as set forth in 40CFR190.

The average effective dose per individual in the U.S. population from ubiquitous or background radiation sources is about 3.11 mSv/yr (311 mrem/yr), with another 3.00 mSv/yr (300 mrem/yr) resulting from medical procedures and imaging (NCRP Report No. 160, "Ionizing Radiation Exposure of the Population of the United States" (2009)). The estimate for natural background includes radon gas which has always been present but has not always been included in previous estimates. In some regions of the country, the amount of natural radiation is significantly higher. Residents of Colorado, for example, receive an additional 60 mrem/yr due to the increase in cosmic and terrestrial radiation levels. In fact, for every 100 feet above sea level, a person will receive an additional 1 mrem/yr from cosmic radiation. In several regions of the world, naturally high concentrations of uranium and radium deposits result in doses of several thousand mrem/yr to their residents (CRC Handbook. "Radioecology: Nuclear Energy and the Environment", F. Ward Whicker and Vincent Schultz, Volume I, 1982).

Analytical results are divided into four categories based on exposure pathways: Airborne, direct radiation, ingestion, and waterborne. Each of these pathways is described below:

- The airborne exposure pathway includes airborne iodine and airborne particulate. The 2020 results were similar to previous years, excluding the Fukushima Daiichi event in 2011. There was no notable increase in natural products and no detectable fission products or other plant-related radionuclides in the airborne particulate media during the year.

- The direct exposure pathway measures environmental radiation exposures by use of thermoluminescent dosimeters (TLDs). TLD results have indicated a trend that compares with previous years which reflect the natural variability of background radiation from one location to another. The exposure rate response at some individual monitoring stations has exhibited step changes at some point in the past that appear to be related to changes in local conditions in the area of the dosimeter measurement. These step observations have been noted at various locations (both control and indicator stations) with no correlation with distance from Seabrook Station, leading to the conclusion that the changes in local TLD responses are not related to Seabrook operations. As a result, no detectable radiation contribution from Seabrook Station sources was identified via TLD environmental measurements off-site during the course of 2020 from either plant operations or from the spent fuel in the Dry Fuel Storage Facility.

- The ingestion exposure pathway includes milk, fish, shellfish, terrestrial food products and leafy vegetation samples. The gamma spectroscopy analyses indicated the most prominent positive results were for potassium-40 (K-40) at average environmental levels. Other naturally-occurring radionuclides were also periodically detected. However, past world-wide nuclear events such as atmospheric testing of nuclear weapons and the Fukushima Daiichi nuclear accident did result in detectable fallout of fission related radioactivity (Cs-137) in milk. Neither fish, shellfish, nor terrestrial food products (strawberries, blueberries and tomatoes) had any detectable fission product related radioactivity. No radionuclides related to plant effluents were detected in any of these sample media during 2020. For the one fission product (Cs-137) detected in milk, the concentration falls within the range of past and pre-operational measurements and can be attributed to past weapons testing fallout.

- The waterborne exposure pathway includes surface (ocean) water, drinking water supply, shallow well water, sea algae (Irish Moss) and sediment. Water samples were analyzed for tritium, gross-beta and gamma-emitting radionuclides. Irish Moss was analyzed for gamma-emitting radionuclides. Tritium was not identified in the water samples analyzed. For groundwater, the gross beta activity detected at all locations is similar to what was detected in the pre-operational program and is consistent with results from previous years of commercial operations. Gamma analysis of samples indicated no plant-related gamma-emitting radionuclides above detection limits.

The results of the 2020 REMP continue to clearly demonstrate that there is no significant short term or chronic long-term radiological impact on the environment in the vicinity of Seabrook Station from plant operations and that there is no detectable impact to members of the public associated with the DFS facility. The REMP monitoring did detect local area fallout related to past global nuclear events, such as atmospheric weapons testing and the Japanese nuclear accident in March 2011, thereby demonstrating the sensitivity and capability of the REMP to detect low level radiological changes in the environment and the likely source. The

REMP confirmed that plant effluents in 2020 did not contribute measurable radiation exposure to the general public. This finding is consistent with previous years' monitoring conclusions. As a result, no increasing or changing trends in plant related radiological impacts on the environment are found.

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1.0 Introduction

NextEra Energy Seabrook, LLC's Radiological Environmental Monitoring Program (REMP) consists of two interconnected sample collection and measurement schedules that look for environmental influences from: (1) plant operations which release to the environment radioactive materials in liquid and gaseous effluents, and direct radiation from plant facilities inside the power block Protected Area, and (2) direct radiation from used fuel placed in the Dry Fuel Storage (DFS) facility located in the West Southwest sector approximately 0.38 miles from the Containment Building. Several monitoring locations provide data that are shared or used in the assessment of both plant and DFS operations.

The plant operations REMP at Seabrook Station has been designed and carried out to achieve the following specific objectives:

- To provide an indication of the appearance or accumulation of any radioactive material in the environment caused by the operation of the nuclear power station.
- To provide assurance to regulatory agencies and the public that the station's environmental impact is known and within anticipated limits.
- To verify the adequacy and proper functioning of station effluent controls and monitoring systems.
- To provide standby monitoring capability for rapid assessment of risk to the general public in the event of unanticipated or accidental releases of radioactive material.

In July 2008, the plant operations REMP was supplemented with the DFS environmental monitoring for direct radiation when used nuclear fuel assemblies were for the first time transferred to the on-site DFS facility located WSW of the power block.

NextEra Energy Seabrook, LLC staff collected the terrestrial samples. Normandeau Associates, Inc. collected the marine and sediment samples. After initial sample preparation for shipment, the samples were sent to GEL Laboratories, Inc. of Charleston, SC for analysis. The Environmental Dosimetry Company located in Sterling, MA processed the environmental TLDs for the entire year.

This report is a summary of the findings of the REMP for 2020. It is being provided in compliance with Part A of Seabrook Station's ODCM and Technical Specification 6.8.1.3.

2.0 Plant Operations Environmental Monitoring Program

Table 2.0-1 outlines the plant operations monitoring program as specified in the Seabrook Station ODCM, Part B, Section 4. Table 2.0-2 lists the operational sampling stations and their specific locations (distances are measured from the center of the Unit 1 Containment Building). The sampling locations are shown on maps in Figures 2.1 through 2.6. The sampling and analysis program as described above fulfills the minimum requirements for environmental sample collection and analysis as contained in ODCM Table A.9.1-1, and includes additional sampling of various pathways and locations beyond the minimum requirements.

Below are listed the two-letter media codes and what they represent:

AP	Air Particulate
CF	Charcoal Filter
TM	Milk
WG	Ground Water
WS	Surface (Sea) Water
SE	Sediment
FH	Fish
HA	Lobsters
MU	Mussels (Shellfish – edible portion only)
MS	Mussels (Shellfish – shell portion only)
TL	Direct Radiation (TLD)
AL	Irish Moss (algae)
TF	Food Crop
TG	Vegetation (broad-leaf)

Table 2.0-1

Plant Operations Radiological Environmental Monitoring Program

Media	Sampling Frequency	Required Analyses
Air Particulate (AP)	-Bi-Weekly -Quarterly Composite	Gross Beta Gamma spectroscopy
Charcoal Filter (CF)	-Bi-Weekly	I-131
Milk (TM)*	-Monthly (Semimonthly when animals are on pasture)	Gamma spectroscopy I-131
Surface (Sea) Water (WS)	-Monthly -Quarterly Composite	Gamma spectroscopy H-3 (composite)
Sediment (SE)	-Semiannually	Gamma spectroscopy
Fish & Invertebrates (FH, HA, MU)	-Quarterly or -Semiannually	Gamma spectroscopy
Direct Radiation (TL)	-Quarterly	Integrated gamma exposure
Irish Moss (AL)	-Semiannually	Gamma spectroscopy
Ground Water (WG)	-Quarterly	Gamma spectroscopy Gross Beta H-3
Food Crops (TF)	-Monthly/Growing Season	Gamma spectroscopy
Vegetation (TG)	-Monthly/Growing Season	Gamma spectroscopy I-131

* Note that broad leaf vegetation is substituted for milk due to insufficient number of required milk sampling locations in the site area.

Table 2.0-2

Plant Operations Radiological Environmental Monitoring Locations[a] [b]
2020

Station Code (Media - Sta. No.)	Station Description	Zone	Approx. Distance From Plant (km)	Direction From Plant
AP/CF-01+	PSNH Barge Landing Area	1	2.6	ESE
AP/CF-02+	Hampton Marina (Harbor Rd)	1	2.5	E
AP/CF-03+	Southwest Boundary (Rock Pile)	1	1.0	SW
AP/CF-04+	West Boundary (Plate Yard)	1	1.2	W
AP/CF-05	Winnacunnet High School	1	4.0	NNE
AP/CF-07+	PSNH Substation	1	5.7	NNW
AP/CF-08	E&H Substation	1	3.4	SSE
AP/CF-09+	Georgetown Electric Light Co.	2	21.4	SSW
TM-15	Hampton Falls, NH	1	6.9	NW
WG-01	Seabrook Town Wells	1	5.6	W
WG-13	Seabrook Station Well No.13	1	1.0	N
WG-14	Brimmer's Lane	1	1.3	NNW
WS-01+	Hampton-Discharge Area	1	5.1	E
WS-51+	Ipswich Bay	2	26.2	SSE
WS-10 *	Seabrook Marsh	1	0.18	SSE
SE-02	Hampton-Discharge Area	1	5.2	E
SE-07	Hampton Beach	1	3.3	E
SE-08+	Seabrook Beach	1	3.3	ESE
SE-52	Ipswich Bay	2	26.2	SSE
SE-57	Plum Island Beach	2	22.4	SSE
FH-03+	Hampton-Discharge Area	1	5.0	ESE
FH-53+	Ipswich Bay	2	23.3	SSE
FH-06	Hampton-Discharge Area	1	5.2	E
HA-04+	Hampton-Discharge Area	1	5.1	E
HA-54+	Ipswich Bay	2	27.9	SSE
MU-06+	Hampton-Discharge Area	1	5.2	E
MU-09	Hampton Harbor	1	2.5	E
MU-56+	Ipswich Bay	2	28.6	SSE
MU-59	Plum Island	2	22.0	SSE
MS-06	Hampton-Discharge Area	1	5.2	E
MS-56	Ipswich Bay	2	28.6	SSE
AL-05	Hampton-Discharge Area	1	5.2	E
AL-55	Ipswich Bay	2	28.7	SSE
TF-02	Hampton Falls, NH	1	5.0	WNW
TF-03	Salisbury, MA	1	5.1	SW
TF-06	Ipswich, MA	2	26.0	S

Table 2.0-2 (Cont'd)

Plant Operations Radiological Environmental Monitoring Locations[a] [b]
2020

Station Code (Media - Sta. No.)	Station Description	Zone	Approx. Distance From Plant (km)	Direction From Plant
TG-08+	North Access Rd, Site Boundary	1	1.05	W
TG-09+	General Office Bld. Site Boundary	1	0.97	SW
TG-10+	Georgetown Electric Light Co.	2	21.4	SSW
TL-01+	Brimmer's Lane, Hampton Falls	I	0.97	N
TL-02+	Landing Road, Hampton	I	3.0	NNE
TL-03+	Glade Path, Hampton Beach	I	2.9	NE
TL-04+	Island Path, Hampton Beach	I	2.3	ENE
TL-05+	Harbor Road, Hampton Beach	I	2.5	E
TL-06+	PSNH Barge Landing Area	I	2.7	ESE
TL-07+	Cross Road, Seabrook Beach	I	2.6	SE
TL-08+	Farm Lane, Seabrook	I	1.3	SSE
TL-09+	Farm Lane, Seabrook	I	1.3	S
TL-10+	Site Boundary Fence	I	1.1	SSW
TL-11+	Site Boundary Fence	I	1.0	SW
TL-12+	Site Boundary Fence	I	1.2	WSW
TL-13+	Inside Site Boundary	I	1.2	W
TL-14+	Trailer Park, Seabrook	I	1.3	WNW
TL-15+	Brimmer's Lane, Hampton Falls	I	1.4	NW
TL-16+	Brimmer's Lane Hampton Falls	I	1.2	NNW
TL-17+	South Road, North Hampton	0	7.8	N
TL-18+	Mill Road, North Hampton	0	7.6	NNE
TL-19+	Appledore Avenue, North Hampton	0	7.7	NE
TL-20+	Ashworth Avenue, Hampton Beach	0	3.2	ENE
TL-21+	Route 1A, Seabrook Beach	0	3.7	SE
TL-22+	Cable Avenue, Salisbury Beach	0	7.6	SSE
TL-23+	Ferry Road, Salisbury	0	8.1	S
TL-24+	Ferry Lots Lane, Salisbury	0	7.2	SSW
TL-25+	Elm Street, Amesbury	0	7.6	SW
TL-26+	Route 107A, Amesbury	0	8.1	WSW
TL-27+	Highland St. S. Hampton	0	7.5	W
TL-28+	Rte. 150, Kensington	0	7.5	WNW
TL-29+	Frying Pan Ln., Hampton Falls	0	7.2	NW
TL-30+	Route 27, Hampton	0	7.6	NNW

Table 2.0-2 (Cont'd)

Plant Operations Radiological Environmental Monitoring Locations[a] [b]
2020

Station Code (Media - Sta. No.)	Station Description	Zone	Approx. Distance From Plant (km)	Direction From Plant
TL-31+	Alumni Drive, Hampton	S	3.8	NNE
TL-32+	Seabrook Elementary School	S	2.0	S
TL-33+	Dock Area, Newburyport	S	9.8	S
TL-34+	Bow Street, Exeter	S	12.0	NW
TL-35+	Lincoln Ackerman School	S	2.3	NNW
TL-36+	Route 97, Georgetown	2	22.6	SSW
TL-37+	Post Office Plaistow, NH	2	21.5	WSW
TL-38+	Emerson St. Hampstead, NH	2	27.7	W
TL-39+	Fremont, NH	2	27.0	WNW
TL-40+	Newmarket, NH	2	21.6	NNW
TL-41	Portsmouth, NH	2	21.0	NNE
TL-42	Ipswich, MA	2	22.8	SSE
TL-44	Education (Science & Nature) Center	S	0.6	SW
TL-45	Hampton Fire Station	S	4.4	NE
TL-46	Seabrook Beach (near Police Station)	S	2.8	ESE
TL-47	Hampton Falls, NH	S	4.1	WNW

Zone indices are: 1 = Indicator Stations; 2 = Control Stations; 0 = Outer Ring TLD;
I = Inner Ring TLD; S = Special Interest TLD

\+ = Sample Locations required by the Off-Site Dose Calculation Manual (ODCM)
* Note that WS-10 is the same location as WS-02 reported in previous reports.

(a) Dry Fuel Storage (DFS) locations are listed on Table 4.0-1.

(b) Table reflects those locations included in the 2020 sample collection program.

Figure 2.1 Radiological Environmental Monitoring Locations Within 4 Km of Seabrook Station

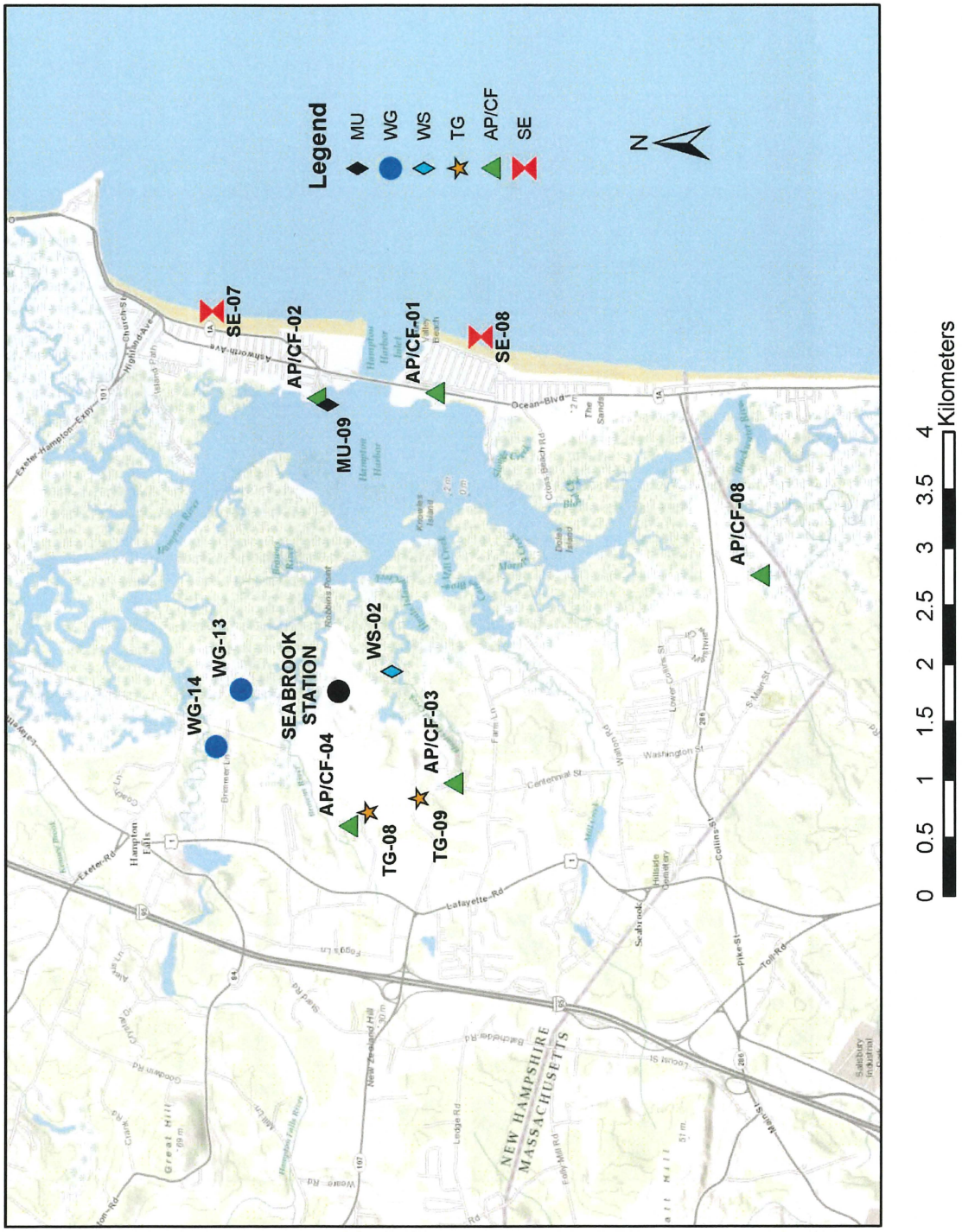


Figure 2.2 Radiological Environmental Monitoring Locations Between 4 & 12 Km of Seabrook Station

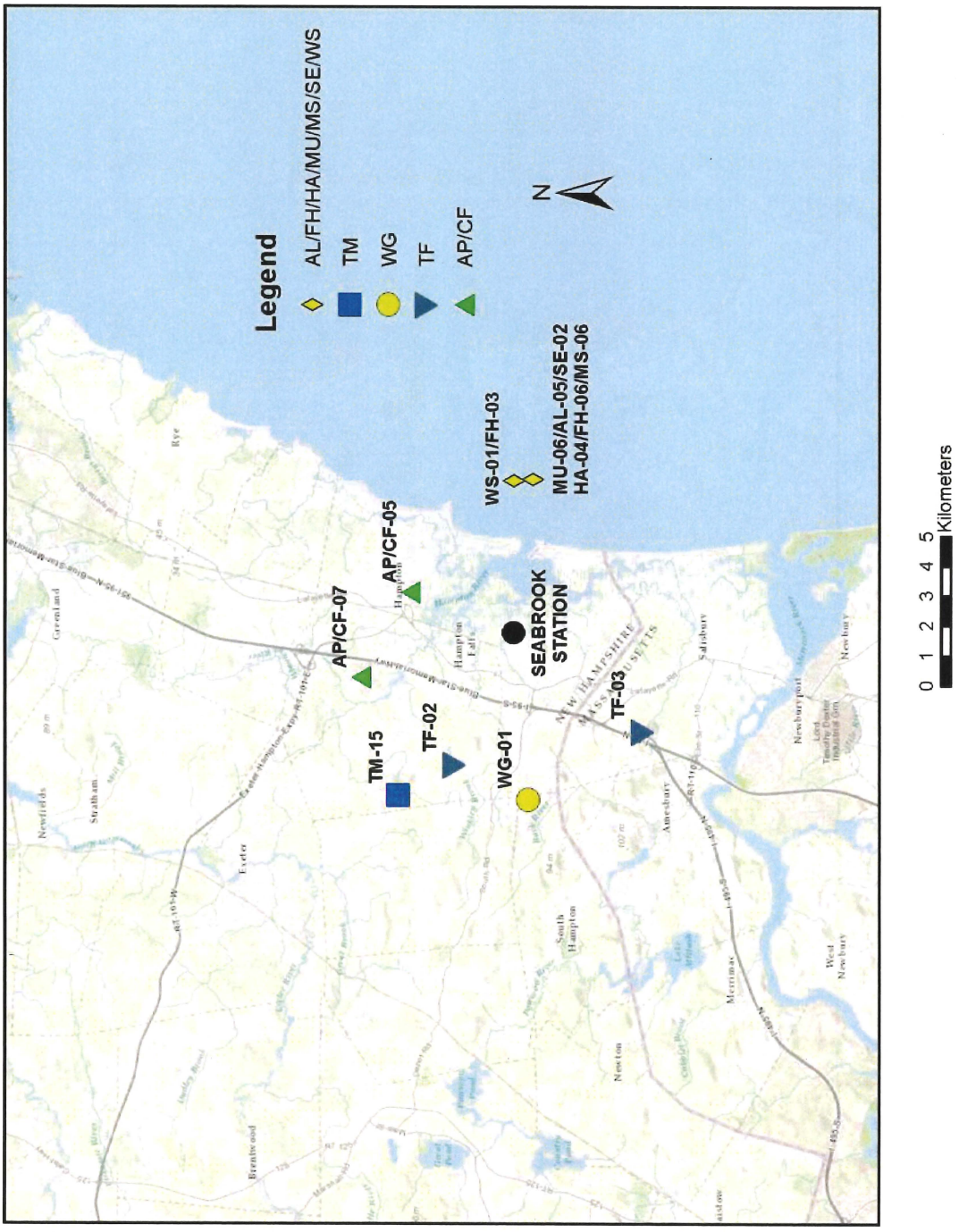


Figure 2.3 Radiological Environmental Monitoring Locations Outside 12 Km of Seabrook Station

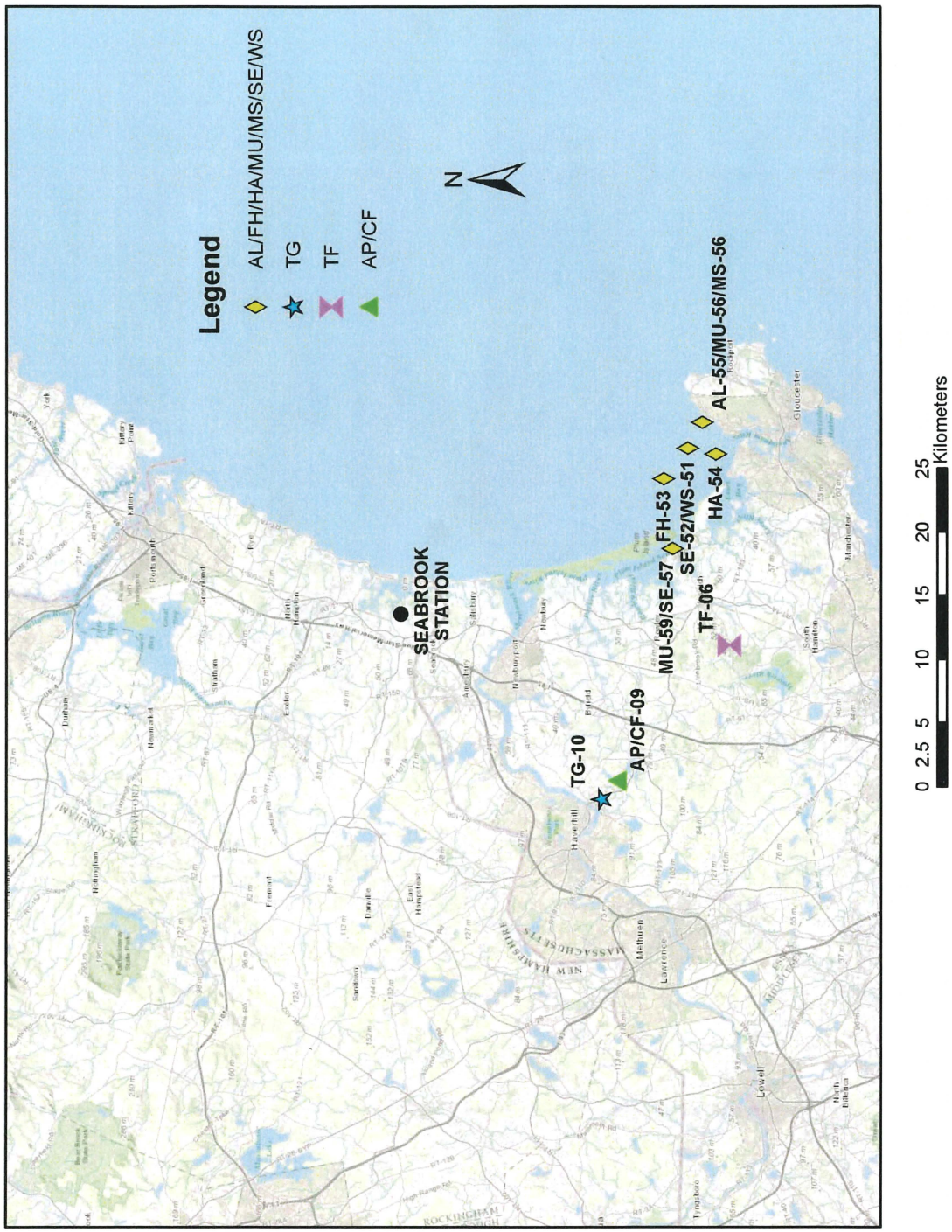


Figure 2.4 Direct Radiation Monitoring Locations Within 4 Km of Seabrook Station

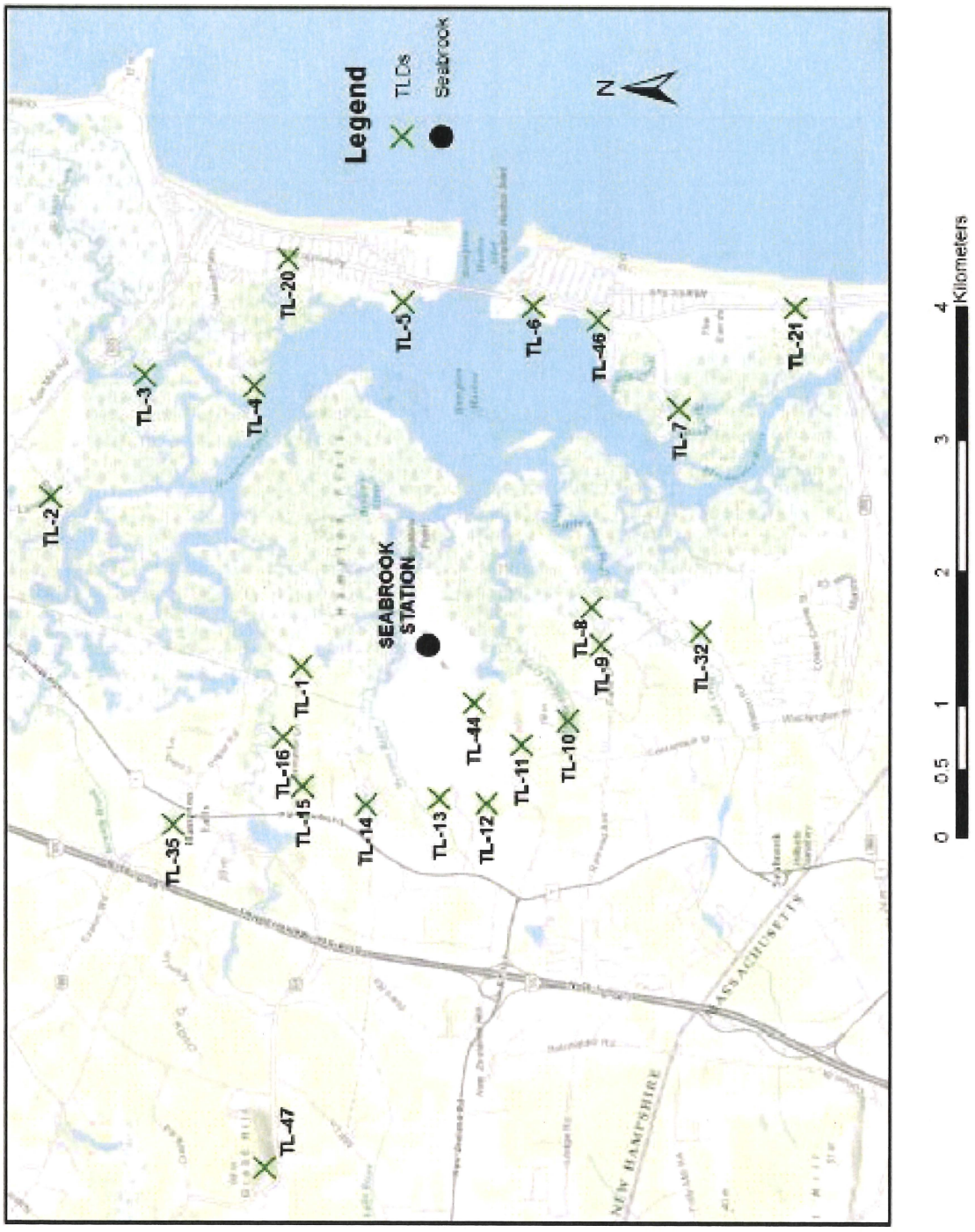


Figure 2.5 Direct Radiation Monitoring Locations Between 4 & 12 Km of Seabrook Station

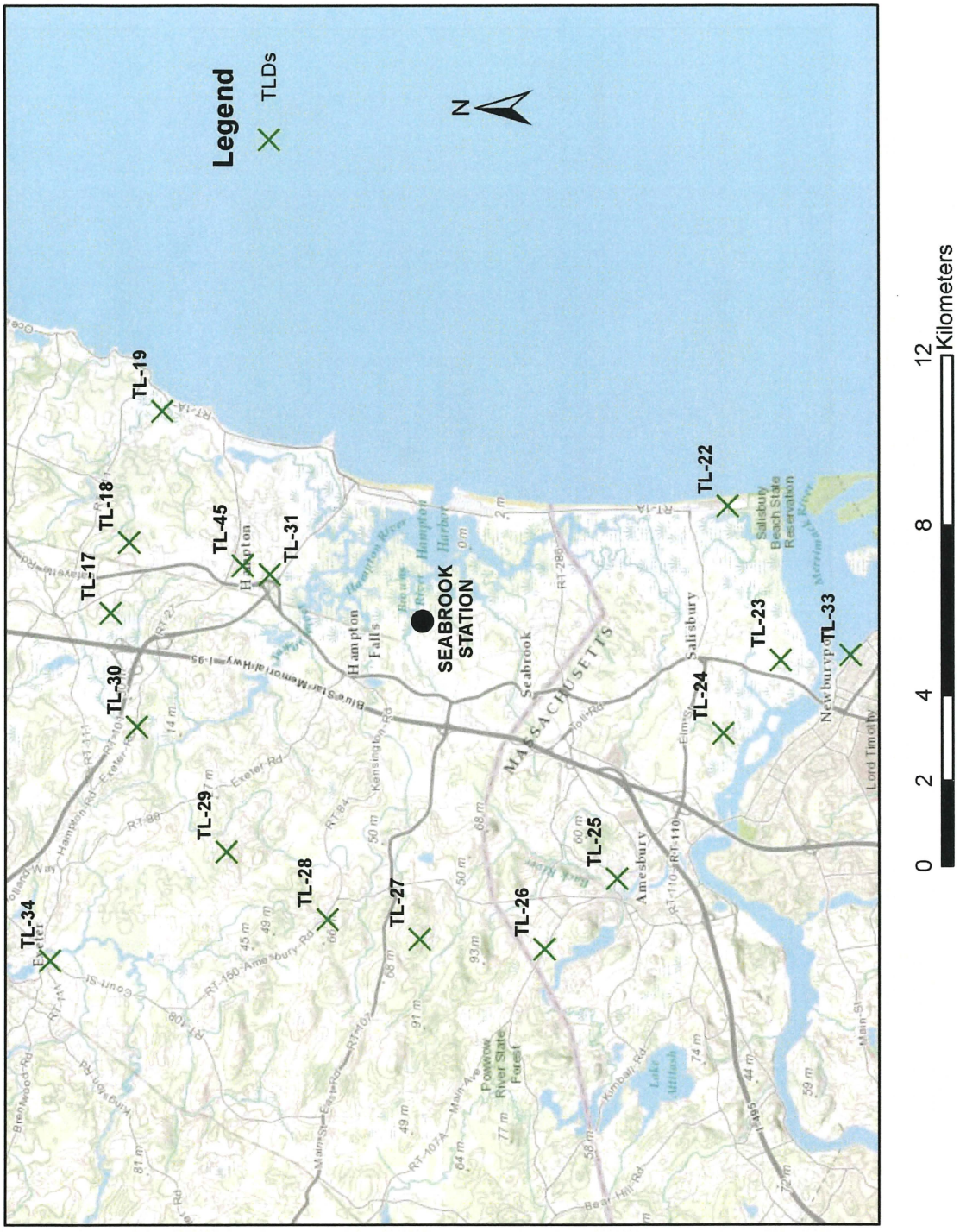
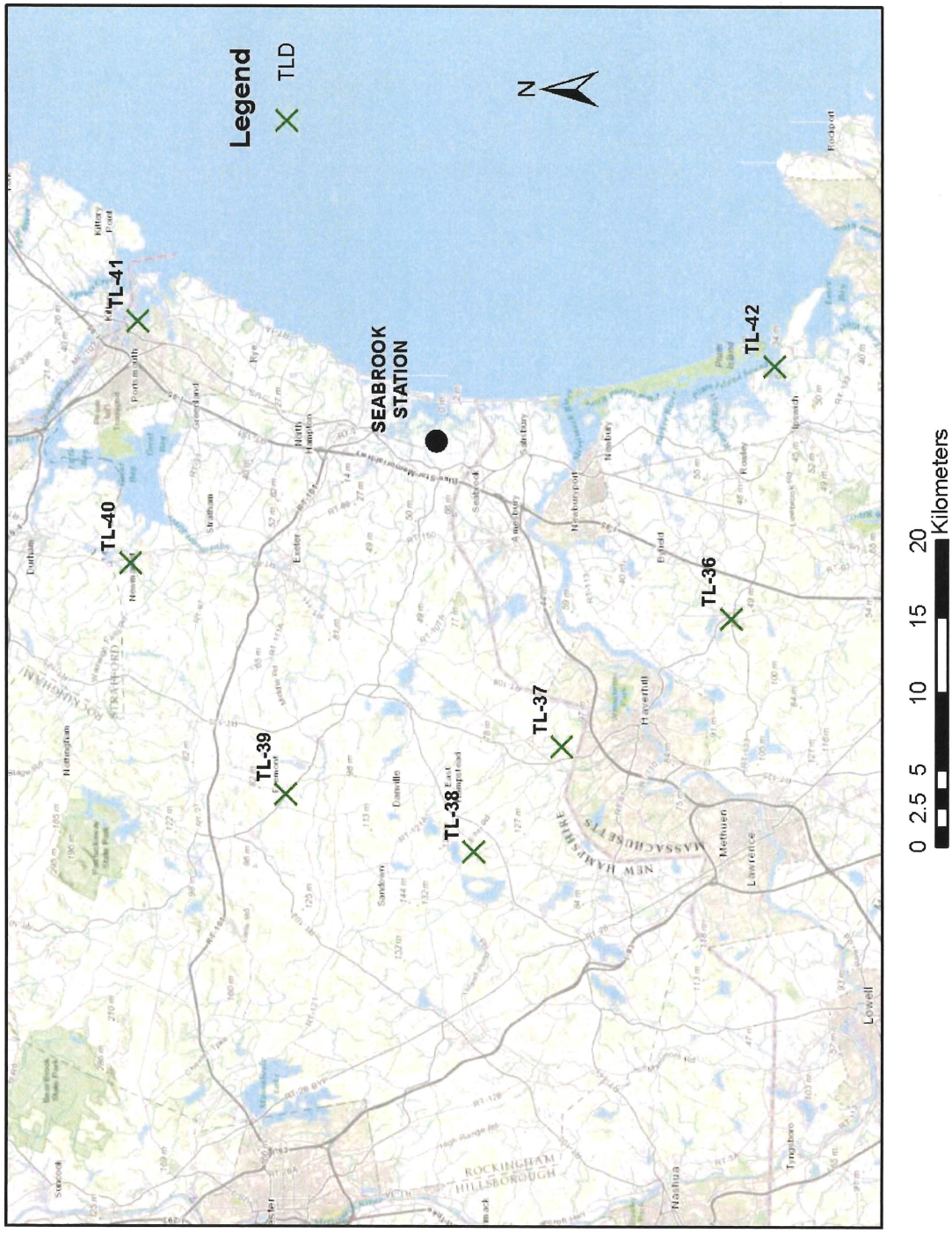


Figure 2.6 Direct Radiation Monitoring Locations Outside 12 Km of Seabrook Station



3.0 Summary of Plant Operations Radiological Environmental Monitoring Data

The following pages summarize the analytical results of the plant operations environmental samples collected in 2020. Each environmental media category is presented as a separate subsection. A table that summarizes the data follows a discussion of the sampling requirements and results for each media type. Listed at the top of each table are the units of measurement for each medium. The left-hand column contains the radionuclide which is being reported, total number of analyses of that radionuclide, and the number of measurements that exceed the required reporting level as documented in Table A.9.1-3 of the ODCM. The latter are classified as "non-routine" measurements. The next column lists the Lower Limit of Detection (LLD) for those radionuclides that have detection capability requirements specified in the ODCM.

Those sampling stations which are adjacent to the plant and which could conceivably be affected by the operation of Seabrook Station are called "Indicator" or "Zone 1" stations. Distant stations, which are beyond potential plant influences, are called "Control" or "Zone 2" stations.

A set of statistical parameters is calculated for each radionuclide. This set of statistical parameters includes separate analyses for (1) the indicator stations, (2) the station having the highest annual mean concentration for that radionuclide, and (3) control stations. For each of the three groups of data, these parameters are as follows:

- The mean value of all concentrations,
- The range of values and
- The number of positive measurements (a concentration which is greater than the MDC for the measurement) divided by the total number of measurements.

Each radioactivity measurement datum in this report is based on a single measurement and is reported as a concentration plus or minus a one standard deviation uncertainty. The quoted uncertainty term represents only the random uncertainty associated with the radioactive decay process (counting statistics), and not the propagation of all possible uncertainties in the analytical procedure.

Attachment 1 contains the data for the samples collected in 2020. The results are organized as follows: (1) by sample type; (2) within each sample type the data are alphabetical by nuclide; and (3) within each radionuclide listing the data are chronologically arranged by end date (date of sample collection).

The radionuclide value concentrations have been corrected for radioactive decay. For composite samples, such as air particulates and airborne iodine, the GEL laboratory uses the mid-point of the collection period as the reference for decay correction until time of analysis.

3.1 Air Particulate

Air monitoring stations were established at a total of eight locations, six locations required by the ODCM, Table A.9.1-1, and two additional sites included to supplement the program. Seven of the locations are indicators, while the remaining one is a control station located more than 21 km away from the plant.

Airborne particulates (AP) are collected by passing the air through a glass-fiber filter. In 2020, these filters were typically collected bi-weekly and held for a period (typically 100 hours or more) before being analyzed for gross-beta activity (indicated as BETA in Table 3.1-1) to allow for the decay of Radon and Thoron daughter products. Continuous automated and real-time remote monitoring of vital air sampling system parameters is performed with telemetry that detects power outages, pump failures, filter degradation, tubing failures and excessive filter loading. The telemetry communicates by cellular transmission to a web server that communicates to a shift technician's pager when set-point thresholds are reached, providing 24/7 alert notification. This capability provides for timely identification of problems and corrective actions that reduce the potential loss of air sampling. If periods of high dust loading during the collection period cause a higher than normal differential pressure drop across the collection filters, the collection period may be reduced to weekly cycles to reduce the dust loading. There were no recorded collection cycle reductions due to dust loading in 2020. For the year, 208 particulate filters were collected and analyzed for gross beta activity.

The 2020 gross beta activity analyses for the indicator locations were found to be statistically equivalent to that seen at the control station (positive activity for all samples). The gross beta results are also similar to what was seen in the pre-operational program and for the last thirty years of commercial operation, with the exception of the Fukushima Daiichi related spike in 2011. All filter samples from all stations showed similar trends lines (see Figure 3.1) over the course of the year and from previous years (see Figures 3.1.1, 3.1.2, and 3.1.3). Figure 3.1.4 compares the quarterly average gross beta response of all indicator air sampling stations to the control location over the last 26 years, and shows no significant difference in the two data sets. It is also noted that no plant-related radionuclides (by gamma spectroscopy) were identified in any of the quarterly filter composite samples for 2020. The overall fluctuations at all stations seen in the gross beta activity throughout the year can be attributed to changes in environmental conditions unrelated to plant operations. Natural environmental processes such as wind direction, precipitation, snow cover, and soil temperature and moisture affect concentrations of naturally-occurring radionuclides in the atmosphere directly above land.

Gamma isotopic analyses of particulate filters are summarized on Table 3.1-1. The only radionuclides detected were naturally-occurring Be-7, which indicated positive in all air particulate samples, K-40 which was positive in one sample and Th-228, which was positive in one sample. Be-7 is of cosmogenic origin, and its presence is consistent with previous years in both the pre-operational and operational periods.

Near the end of 2010, analysis of environmental samples was changed from the AREVA Environmental Laboratory to GEL Laboratory after the AREVA lab discontinued operations. In comparing long term trends in gross beta activity, the results since 2011 appear to reflect a step increase at the time of the transition between labs. The reason for the step increase is related to the change in the gross beta counting equipment configurations and reference calibration standards used by the AREVA lab and GEL. Both labs use(d) gas proportional counting of the filter element. However, AREVA applied a Cs-137 calibration source while the GEL lab uses a Tc-99 calibration source. In the case of the AREVA data record, the Cs-137 detection efficiency (typically 34%) was applied to the "gross" counts to determine the apparent activity. This inherently presumes that the radioactivity in a field sample is all Cs-137. In the case of the GEL data record, the Tc-99 efficiency (20.6%), is applied to the same "gross" counts as if all the radioactivity in this case is Tc-99. The end result is two different gross beta radioactivity determinations for the same level of environmental activity. In application, this is not an adverse condition in that the gross beta counting is used as a qualitative indicator of changes in environmental conditions, not as a quantitative measure of the actual radioactivity. Since the comparison of the response curves for each monitoring station, including the control station, are similar over time, the curves indicate that there is no detectable influence from a single nearby point source such as Seabrook Station.

The air particulate sampling program demonstrated no off-site dose to the public or impact to the environment from this pathway as the result of plant operations. This is consistent with previous years and the pre-operational program. The REMP Summary Table 3.1-1 lists the range of analysis results by

radionuclide for Indicator and Control Stations for the air particulate environmental media. Attachment 1 to this report lists the individual analysis results for each measurement of air particulates under the Sample Type code AP.

Air particulate sample collection and analysis deviations from the ODCM required program (if any) are described in Section 5.

FIGURE 3.1

GROSS-BETA MEASUREMENTS OF AIR PARTICULATE FILTERS
SEABROOK STATION

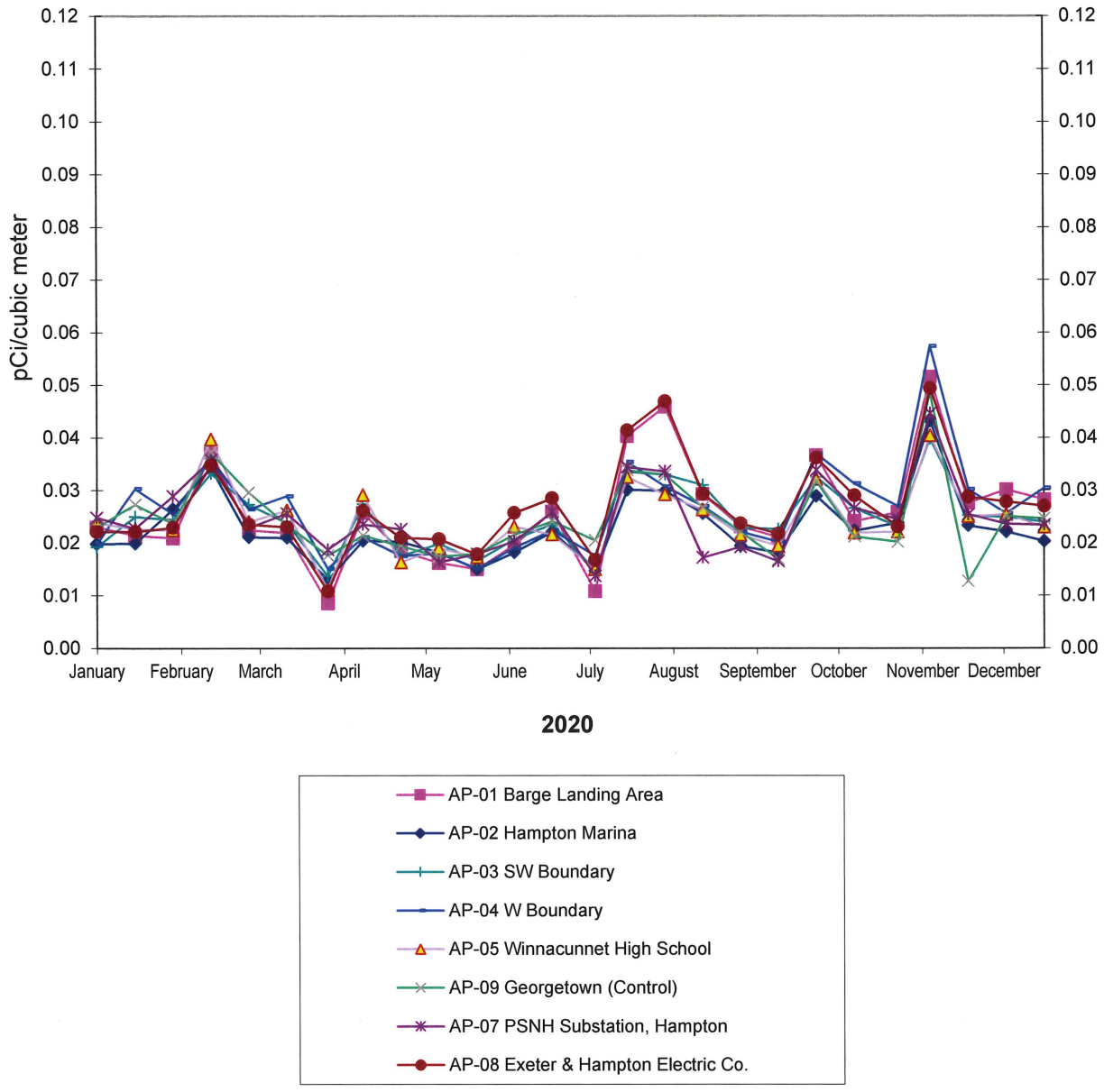


FIGURE 3.1.1

GROSS-BETA MEASUREMENTS OF AIR PARTICULATE FILTERS QUARTERLY AVERAGES
SEABROOK STATION

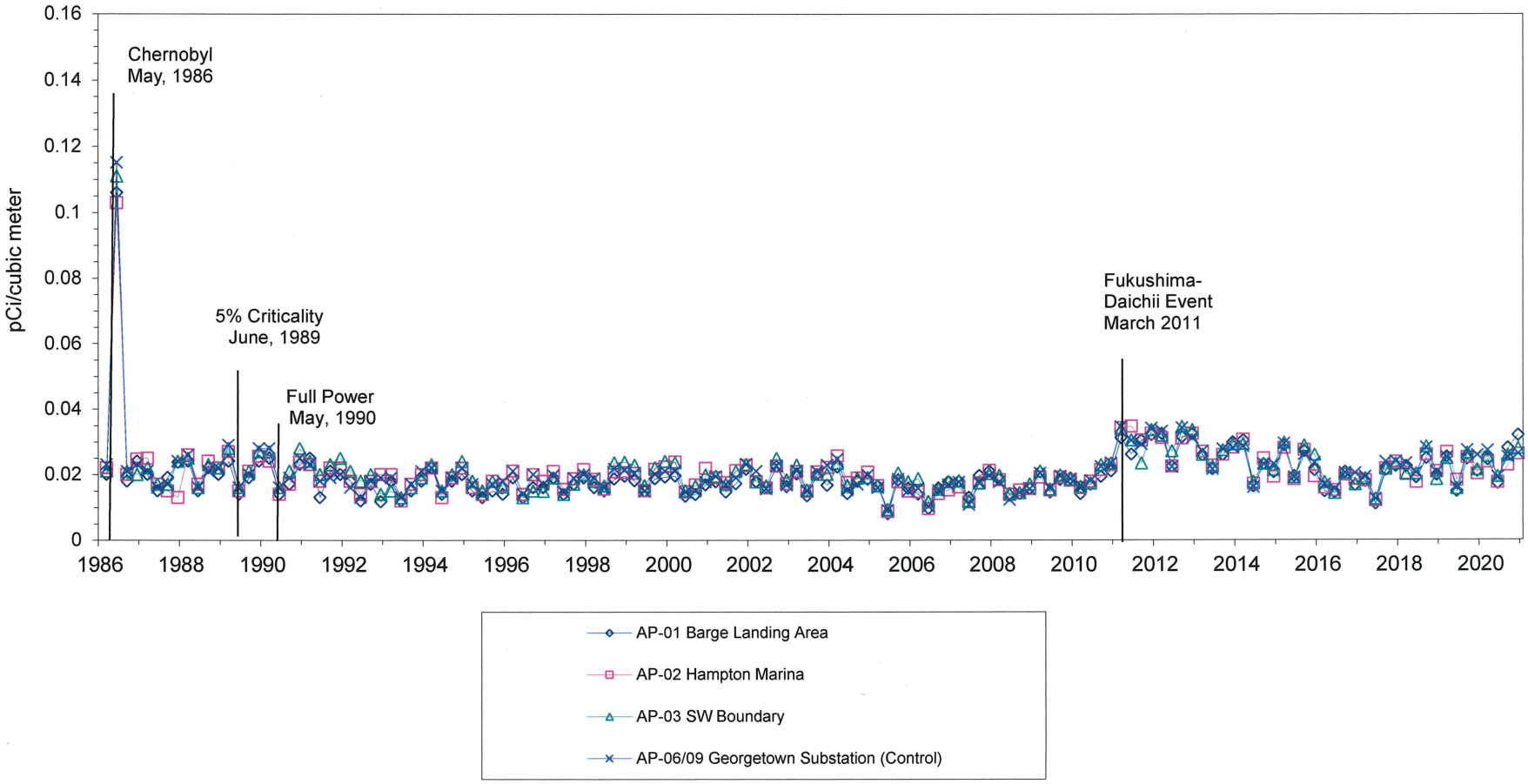


FIGURE 3.1.2

GROSS-BETA MEASUREMENTS OF AIR PARTICULATE FILTERS QUARTERLY AVERAGES
SEABROOK STATION

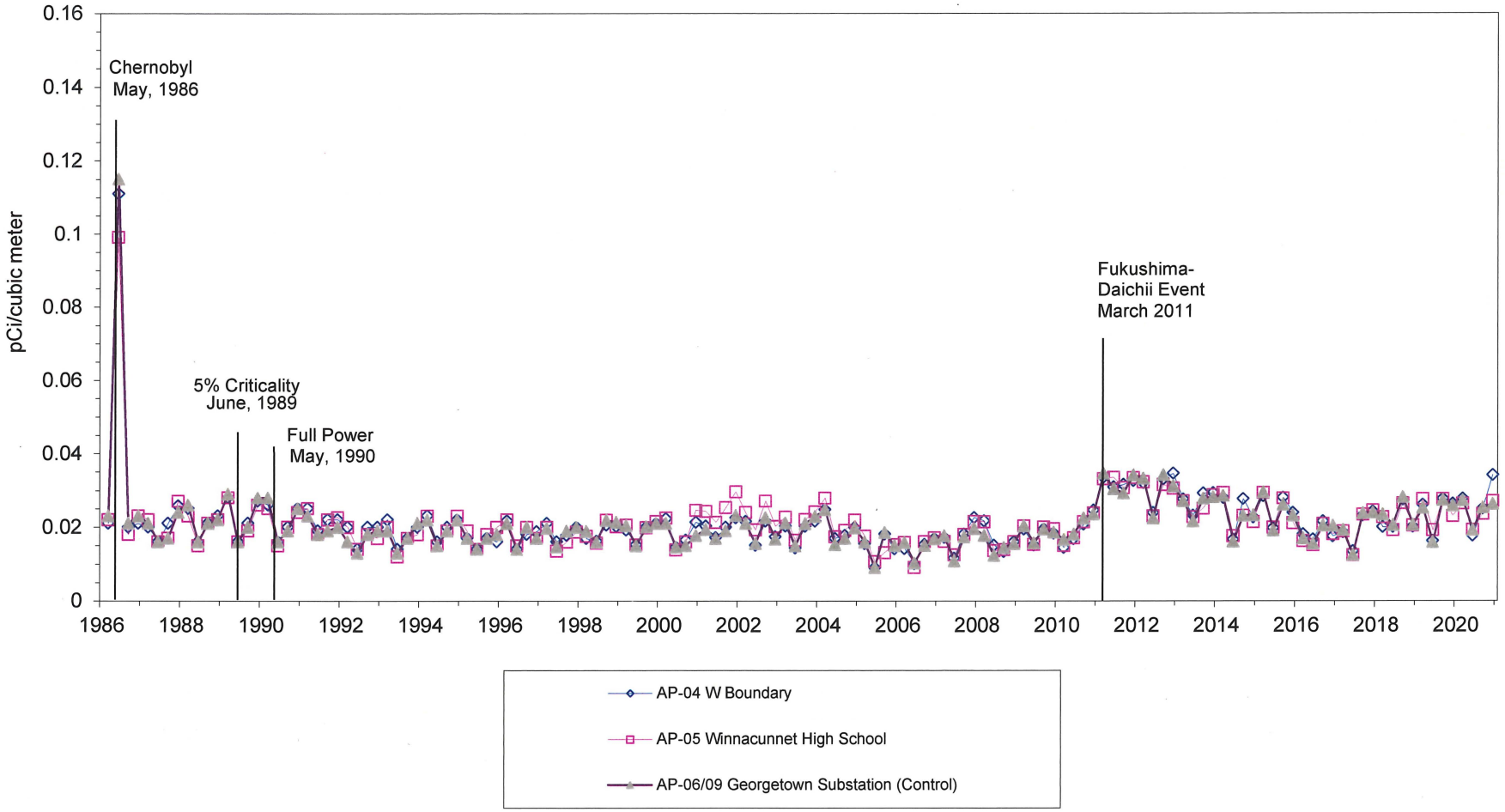


FIGURE 3.1.3

GROSS-BETA MEASUREMENTS OF AIR PARTICULATE FILTERS QUARTERLY AVERAGES
SEABROOK STATION

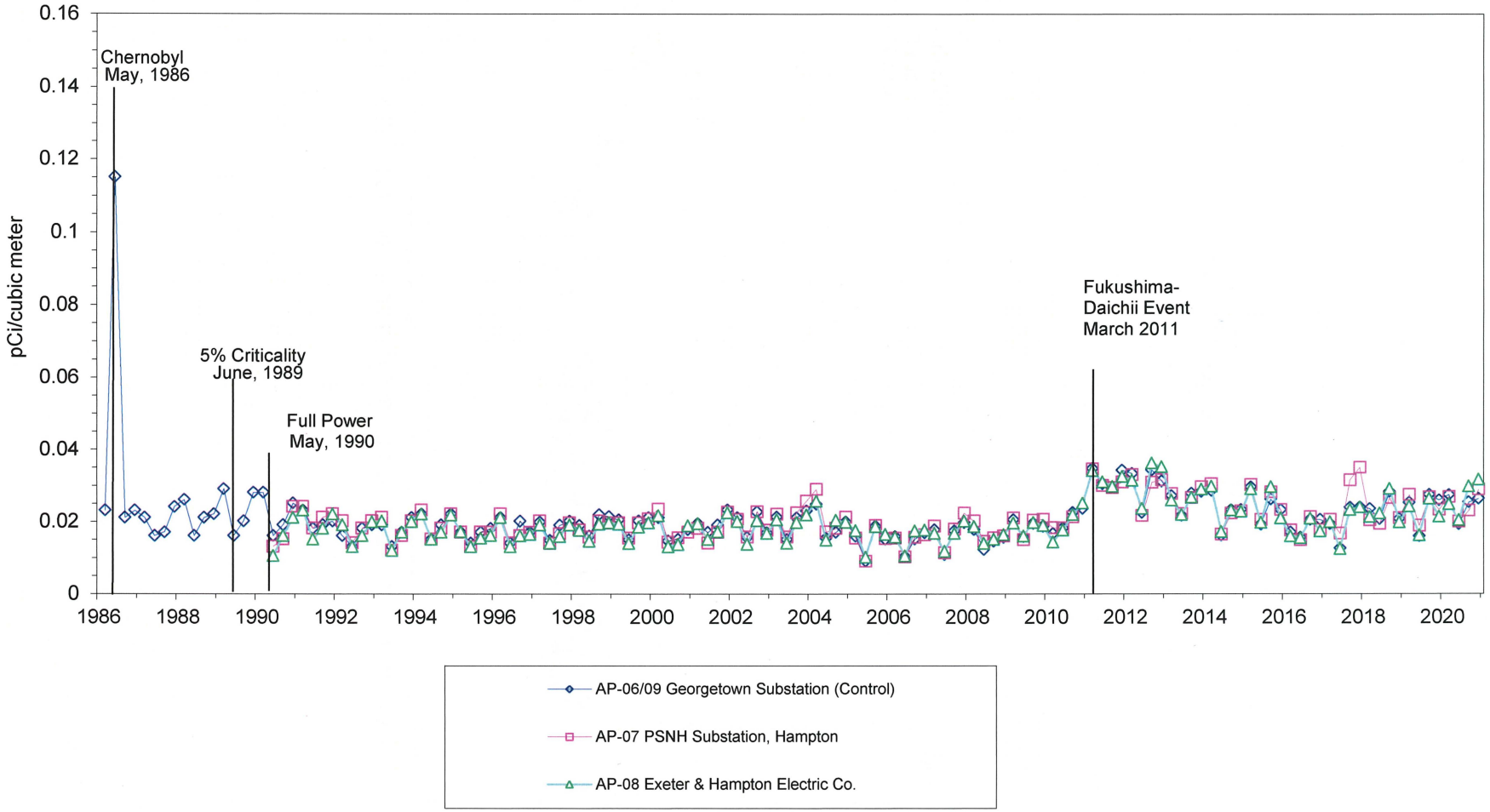


FIGURE 3.1.4

GROSS-BETA ON AIR PARTICULATE FILTERS
QUARTERLY AVERAGES
SEABROOK STATION

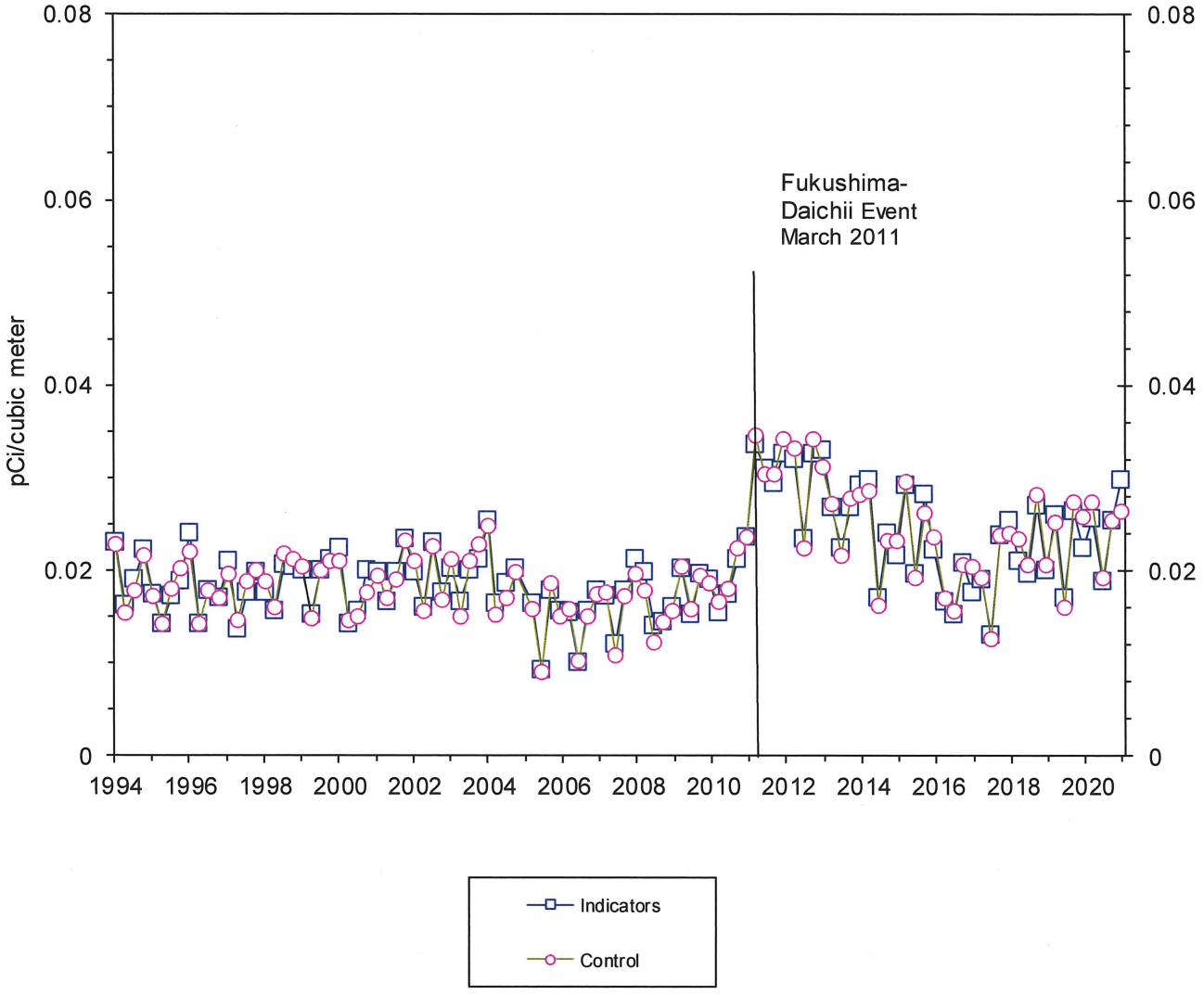


Table 3.1-1
Radiological Environmental Program Summary
Seabrook Nuclear Power Station, Seabrook, NH
(January - December 2020)

MEDIUM: Air Particulates (AP) UNITS: pCi/cubic meter

Radionuclides (No. Analyses) (Non-Routine*)		Required LLD	Indicator Stations Mean Range (No. Detected**)	Station With Highest Mean Station	 Mean Range (No. Detected**)	Control Stations Mean Range (No. Detected**)
BETA	**(208)**	0.01	2.5E -2	08	2.7E -2	2.5E -2
	(0)		(8.5 - 57.4)E -3 (182/ 182)		(1.1 - 4.9)E -2 (26/ 26)	(1.3 - 4.9)E -2 (26/ 26)
Be-7	**(32)**		1.2E -1	01	1.3E -1	1.2E -1
	(0)		(9.0 - 14.7)E -2 (28/ 28)		(1.1 - 1.4)E -1 (4/ 4)	(8.6 - 15.3)E -2 (4/ 4)
K-40	**(32)**		1.1E -3	01	1.8E -3	6.8E -4
	(0)		(-3.0 - 5.6)E -3 (1/ 28)		(0.0 - 4.3)E -3 (0/ 4)	(0.0 - 1.5)E -3 (0/ 4)
Cr-51	**(32)**		-6.3E -5	02	1.6E -3	-3.8E -4
	(0)		(-9.4 - 11.6)E -3 (0/ 28)		(-8.3 - 11.6)E -3 (0/ 4)	(-6.6 - 2.9)E -3 (0/ 4)
Mn-54	**(32)**		-2.8E -5	01	5.0E -5	0.0E 0
	(0)		(-2.3 - 1.3)E -4 (0/ 28)		(-1.5 - 11.9)E -5 (0/ 4)	(-1.7 - 2.0)E -4 (0/ 4)
Co-57	**(32)**		0.0E 0	07	3.8E -5	2.9E -5
	(0)		(-1.6 - 1.0)E -4 (0/ 28)		(-4.3 - 91.9)E -6 (0/ 4)	(-1.2 - 7.0)E -5 (0/ 4)
Co-58	**(32)**		3.5E -5	03	1.7E -4	-7.1E -5
	(0)		(-2.3 - 4.0)E -4 (0/ 28)		(7.6 - 24.0)E -5 (0/ 4)	(-2.1 - 0.9)E -4 (0/ 4)
Fe-59	**(32)**		5.2E -5	01	2.2E -4	1.5E -4
	(0)		(-1.2 - 1.4)E -3 (0/ 28)		(-4.7 - 87.7)E -5 (0/ 4)	(-4.4 - 10.0)E -4 (0/ 4)
Co-60	**(32)**		2.2E -5	04	9.9E -5	2.5E -5
	(0)		(-2.2 - 1.9)E -4 (0/ 28)		(3.6 - 15.8)E -5 (0/ 4)	(-1.5 - 1.5)E -4 (0/ 4)
Zn-65	**(32)**		-7.0E -5	05	1.2E -4	0.0E 0
	(0)		(-6.9 - 4.3)E -4 (0/ 28)		(-1.1 - 4.3)E -4 (0/ 4)	(-3.2 - 2.6)E -4 (0/ 4)
Se-75	**(32)**		5.6E -5	02	1.9E -4	0.0E 0
	(0)		(-2.8 - 5.2)E -4 (0/ 28)		(1.7 - 517.0)E -6 (0/ 4)	(-1.2 - 1.1)E -4 (0/ 4)
Nb-95	**(32)**		6.8E -5	01	2.1E -4	-2.6E -5
	(0)		(-5.9 - 4.7)E -4 (0/ 28)		(-1.6 - 4.7)E -4 (0/ 4)	(-2.9 - 3.3)E -4 (0/ 4)
Zr-95	**(32)**		7.6E -5	05	4.2E -4	0.0E 0
	(0)		(-6.9 - 16.3)E -4 (0/ 28)		(6.2 - 112.0)E -5 (0/ 4)	(-1.1 - 1.6)E -4 (0/ 4)
Ru-103	**(32)**		-3.4E -5	05	1.8E -4	-6.2E -5
	(0)		(-5.0 - 7.3)E -4 (0/ 28)		(-2.0 - 7.3)E -4 (0/ 4)	(-3.9 - 2.8)E -4 (0/ 4)

* Non-Routine refers to those radionuclides that exceeded the Reporting Levels in ODCM Table A.9.1-3.
** The fraction of detectable measurements (i.e., > MDC with no uncertain identification) is shown in parentheses.

Table 3.1-1 (Continued)

Radiological Environmental Monitoring Program Summary
Seabrook Nuclear Power Station, Seabrook, NH
(January - December 2020)

MEDIUM: Air Particulates (AP) UNITS: pCi/cubic meter

Radionuclides (No. Analyses) (Non-Routine*)		Required LLD	Indicator Stations Mean Range (No. Detected**)	Station With Highest Mean Station	 Mean Range (No. Detected**)	Control Stations Mean Range (No. Detected**)
Ru-106	**(32)**		5.6E -5	08	9.7E -4	-3.5E -4
	(0)		(-1.9 - 2.4)E -3 (0/ 28)		(-2.2 - 23.6)E -4 (0/ 4)	(-8.8 - -0.8)E -4 (0/ 4)
Ag-108m	**(32)**		0.0E 0	02	8.1E -5	-1.4E -5
	(0)		(-2.0 - 2.1)E -4 (0/ 28)		(4.9 - 208.0)E -6 (0/ 4)	(-7.8 - 4.7)E -5 (0/ 4)
Ag-110m	**(32)**		2.8E -5	08	1.2E -4	-1.9E -5
	(0)		(-4.3 - 5.1)E -4 (0/ 28)		(-1.3 - 3.8)E -4 (0/ 4)	(-2.6 - 1.7)E -4 (0/ 4)
Sb-124	**(32)**		-8.2E -5	09	3.6E -4	3.6E -4
	(0)		(-1.2 - 0.9)E -3 (0/ 28)		(2.6 - 5.5)E -4 (0/ 4)	(2.6 - 5.5)E -4 (0/ 4)
Sb-125	**(32)**		3.1E -5	03	2.2E -4	2.5E -5
	(0)		(-3.8 - 6.2)E -4 (0/ 28)		(1.3 - 3.3)E -4 (0/ 4)	(-2.2 - 1.7)E -4 (0/ 4)
I-131	**(32)**		-4.7E -2	09	3.0E -3	3.0E -3
	(0)		(-3.0 - 0.8)E -1 (0/ 28)		(0.0 - 1.2)E -2 (0/ 4)	(0.0 - 1.2)E -2 (0/ 4)
Cs-134	**(32)**	0.05	1.5E -5	03	8.4E -5	2.3E -5
	(0)		(-2.5 - 2.3)E -4 (0/ 28)		(-2.7 - 17.6)E -5 (0/ 4)	(-6.9 - 16.3)E -5 (0/ 4)
Cs-137	**(32)**	0.06	-1.7E -5	09	5.4E -5	5.4E -5
	(0)		(-3.0 - 1.3)E -4 (0/ 28)		(-3.2 - 16.6)E -5 (0/ 4)	(-3.2 - 16.6)E -5 (0/ 4)
Ba-140	**(32)**		1.9E -2	03	3.5E -2	-4.9E -3
	(0)		(-3.7 - 11.1)E -2 (0/ 28)		(1.6 - 5.5)E -2 (0/ 4)	(-1.6 - 1.5)E -2 (0/ 4)
La-140	**(32)**		-7.2E -3	07	1.7E -3	-3.9E -3
	(0)		(-9.0 - 1.4)E -2 (0/ 28)		(-4.4 - 14.3)E -3 (0/ 4)	(-1.4 - 0.3)E -2 (0/ 4)
Ce-141	**(32)**		1.2E -5	03	5.1E -4	8.5E -5
	(0)		(-1.1 - 1.8)E -3 (0/ 28)		(1.4 - 12.5)E -4 (0/ 4)	(-5.7 - 11.8)E -4 (0/ 4)
Ce-144	**(32)**		-4.4E -5	09	3.1E -4	3.1E -4
	(0)		(-1.0 - 0.9)E -3 (0/ 28)		(-3.9 - 8.0)E -4 (0/ 4)	(-3.9 - 8.0)E -4 (0/ 4)
Ac-228	**(32)**		3.7E -4	02	1.1E -3	0.0E 0
	(0)		(-1.2 - 1.8)E -3 (0/ 28)		(5.4 - 18.2)E -4 (0/ 4)	(-5.6 - 3.5)E -4 (0/ 4)
Th-228	**(32)**		1.9E -4	02	5.1E -4	3.4E -4
	(0)		(-1.1 - 6.2)E -4 (0/ 28)		(3.1 - 6.2)E -4 (0/ 4)	(-5.4 - 75.2)E -5 (1/ 4)

* Non-Routine refers to those radionuclides that exceeded the Reporting Levels in ODCM Table A.9.1-3.
** The fraction of detectable measurements (i.e., > MDC with no uncertain identification) is shown in parentheses.

3.2 Charcoal Filters

Charcoal filter (CF) cartridges are placed in series behind the air particulate glass-fiber filters at each of the air sampling locations. Monitoring stations were established at a total of eight locations. Seven of these are indicators and one is a control. Charcoal filters from the air sampling stations were collected and analyzed for I-131 activity to a lower limit of detection (LLD) of 0.07 pCi/m^3 or lower.

During 2020, a total of 208 charcoal cartridges from eight locations were analyzed. As described for the air particulate samplers (see Section 3.1), the collection cycles for the charcoal filters were biweekly during 2020. Off-normal conditions, such as observed high differential pressure across the associated particulate filter (none detected in 2020) which might be indicative of excessive dust loading, could prompt switching to a temporary weekly cycle (see Section 3.1).

No sample analyses indicated a detectable level for I-131 that was statistically relevant (positive) at any of the air sampling locations during the year. Figure 3.2 shows the I-131 measurement responses in 2020 for all air sampling stations. All analyses were below their respective measurement minimum detectable concentrations (MDC).

From initial criticality in June 1989 to the Fukushima Daiichi accident in March 2011, the Seabrook REMP program had not detected I-131 at any offsite air sample locations. Following the March – April, 2011 air concentration spikes of I-131 related to the Fukushima Daiichi accident releases, no detectable I-131 has been observed. The pre-operational data for I-131 are consistent with present (2020) data. Therefore, there are no increasing or decreasing trends related to Seabrook Station operations for airborne I-131. The potential organ doses from I-131 in gaseous effluents, if assumed to be released at the MDA, are well below the 10CFR50, Appendix I dose criteria.

The REMP Summary Table 3.2-1 list the range of analysis results for iodine (I-131) at both Indicator and Control Stations. Attachment 1 to this report lists the individual analysis results for each air sample measurement under the Sample Type code CF.

Charcoal filter sample collection and analysis deviations from the ODCM required program (if any) are described in Section 5.

Table 3.2-1

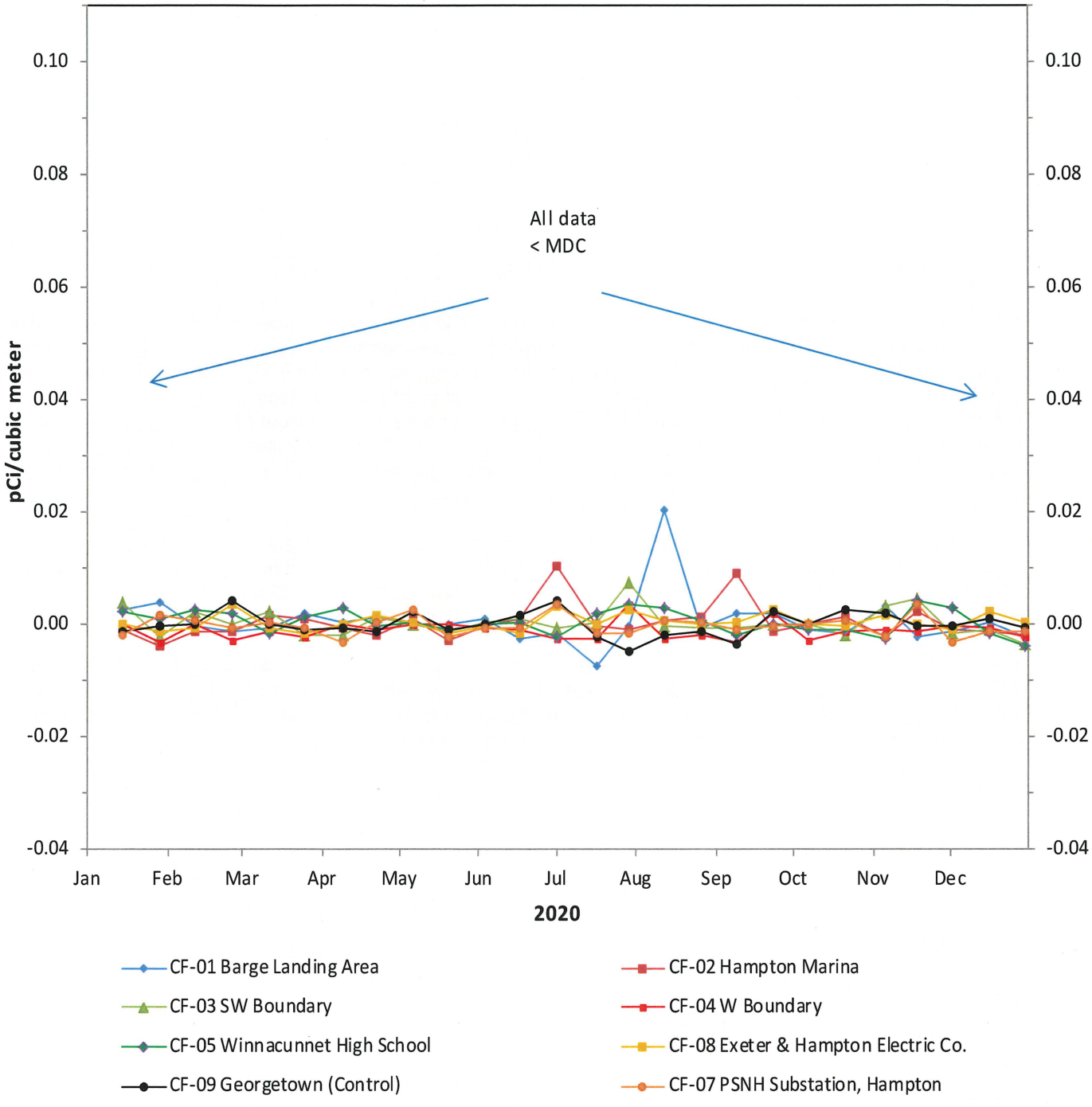
Radiological Environmental Monitoring Program Summary
Seabrook Nuclear Power Station, Seabrook, NH
(January - December 2020)

MEDIUM: Charcoal Cartridge (CF) UNITS: pCi/cubic meter

Radionuclides (No. Analyses) (Non-Routine*)		Required LLD	Indicator Stations: Mean Range (No. Detected**)	Station With Highest Mean: Station	Station With Highest Mean: Mean Range (No. Detected**)	Control Stations: Mean Range (No. Detected**)
I-131	(208)	0.07	1.9E -4	01	6.7E -4	6.6E -5
	(0)		(-7.3 - 20.3)E -3 (0/ 182)		(-7.3 - 20.3)E -3 (0/ 26)	(-4.6 - 4.3)E -3 (0/ 26)

* Non-Routine refers to those radionuclides that exceeded the Reporting Levels in ODCM Table A.9.1-3.
** The fraction of detectable measurements (i.e., > MDC with no uncertain identification) is shown in parentheses.

FIGURE 3.2
I-131 MEASUREMENTS OF AIR CHARCOAL CARTRIDGES
SEABROOK STATION



3.3 Milk

Milk samples (TM) were collected semi-monthly during the pasture season and monthly at other times. Samples are analyzed for low level I-131 and gamma-emitting radionuclides.

The ODCM (Table A.9.1-1) requires that milk samples be collected from three locations within 5 km of the plant having the highest dose potential. If there are none, then one sample is required from milking animals in each of three areas between 5 to 8 km from the plant where the doses are calculated to be greater than 1 mrem/yr. Due to the limited inventory of milk animals in the site area, as reconfirmed by the 2020 Land Use Census, the number of available sample locations required by the ODCM sampling program could not be met (insufficient numbers of milk animals within 5 km, and only one milk location [designated TM-15] between 5 and 8 km). The ODCM allows for broad leaf vegetation samples to be collected if milk sampling cannot be performed in accordance to the REMP requirements. As a result, two site boundary locations and one control vegetation location are sampled to compensate for the limited milk availability (see Section 3.12).

A total of 18 milk samples were collected during the year from one available location. Each sample was analyzed for gamma emitting radionuclides. In addition, all samples were evaluated for low levels of I-131 through an iodine extraction process. The gamma analyses on samples indicated that naturally-occurring K-40 was detectable in all milk samples. Also detected in 14 milk samples was Cs-137 at an average concentration of 8.8 pCi/kg (positive measurements only) which falls in the range of past and pre-operational measurements. The highest single Cs-137 analysis result in 2020 was 14.4 pCi/kg. Though the Fukushima Daiichi event in March 2011 may have contributed to the Cs-137 levels observed in milk in 2020, Cs-137 has historically been detected at similar levels in milk before the nuclear accident in Japan. Residual Cs-137 from past weapons testing fallout has been the major contributor attributed to the currently observed values in milk. Figures 3.3, 3.3.1 and 3.3.2 illustrate the analysis results (without regard to whether individual analysis indicated detectable or statistically not detectable concentrations) for Cs-137 in milk over the current period (2020) and previous years.

Iodine-131 was not positively identified at any location for the year. This is consistent with previous years for both the pre-operational and operational phases of the program. Three samples did not meet the Lower Limit of Detection (LLD) requirements (1 pCi/kg) for I-131 in milk (LSN's 519927001, 523902001, and 527400001). No increasing or decreasing trends in the radioactivity content of milk were observed.

The REMP Summary Table 3.3-1 lists the range of analysis results by radionuclide for the Indicator station (Historical Control Stations for the milk have ceased operations). Attachment 1 to this report lists the individual analysis results for each measurement of milk under the Sample Type code TM. Section 5 identifies deviations in the sample measurement program (if any), such as missed lower limits of detection (LLD) requirements.

FIGURE 3.3

CESIUM-137 IN MILK
SEABROOK STATION

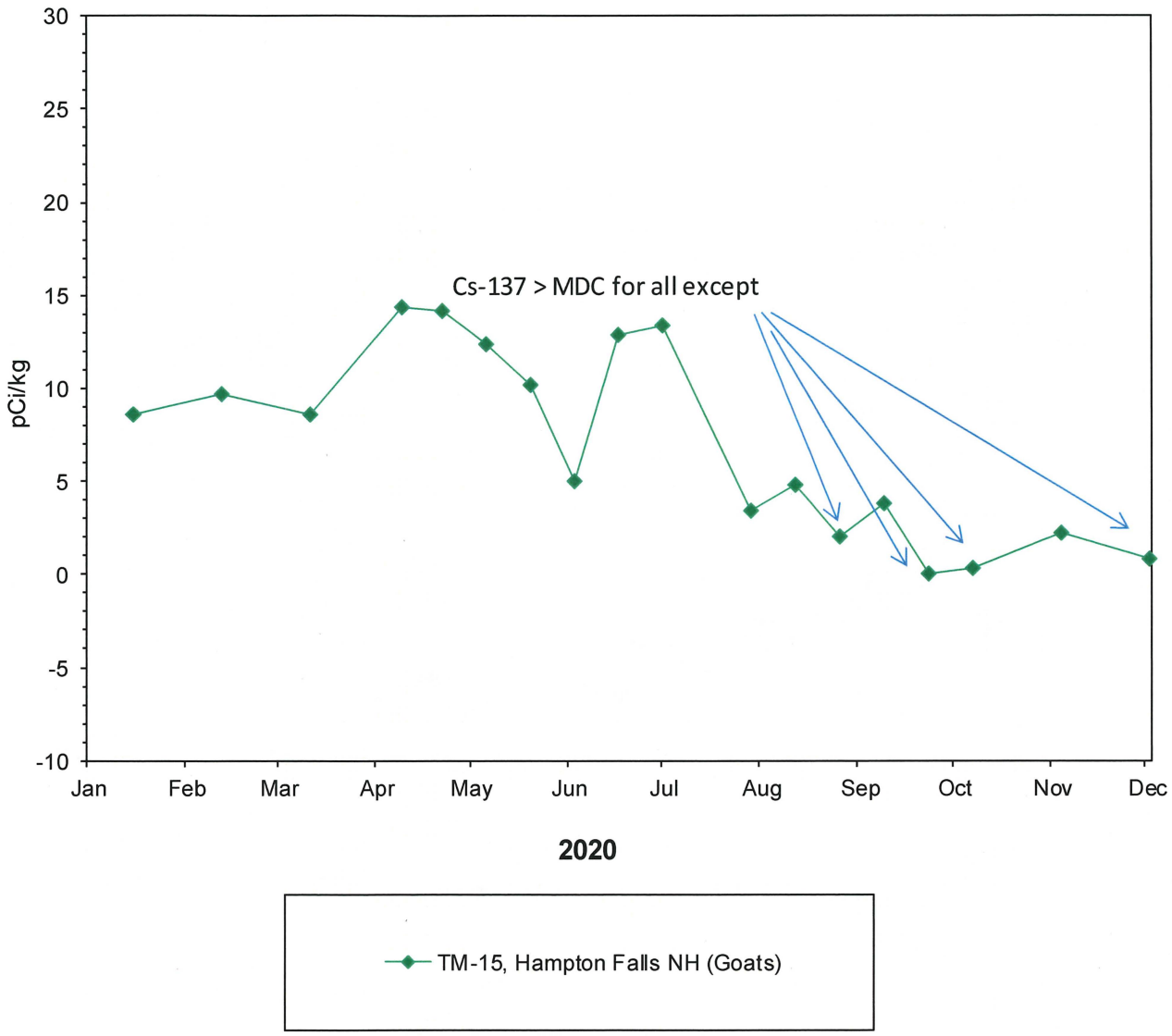


FIGURE 3.3.1

CESIUM-137 IN MILK
ANNUAL AVERAGE CONCENTRATIONS

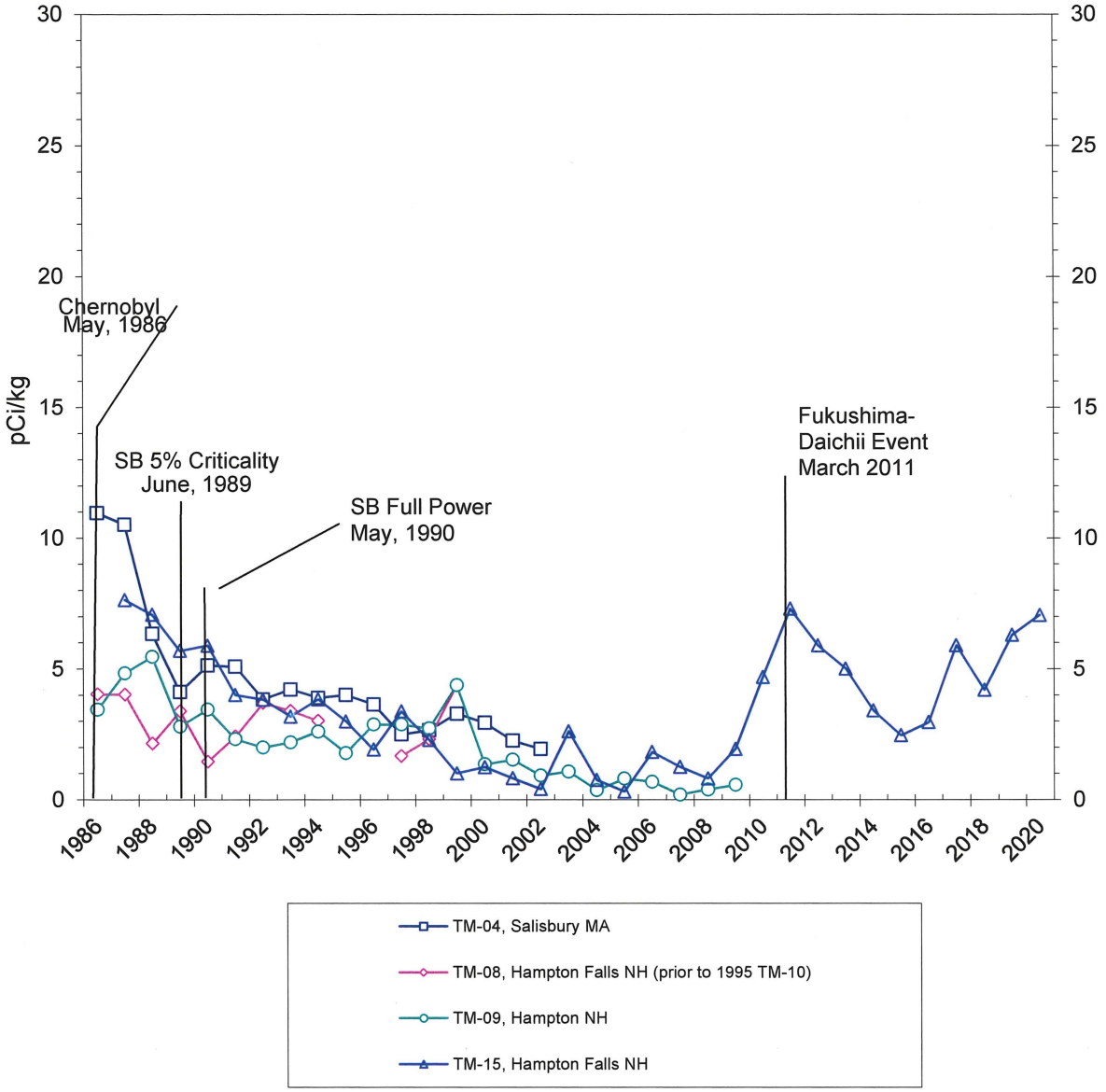


FIGURE 3.3.2

CESIUM-137 IN MILK
ANNUAL AVERAGE CONCENTRATIONS

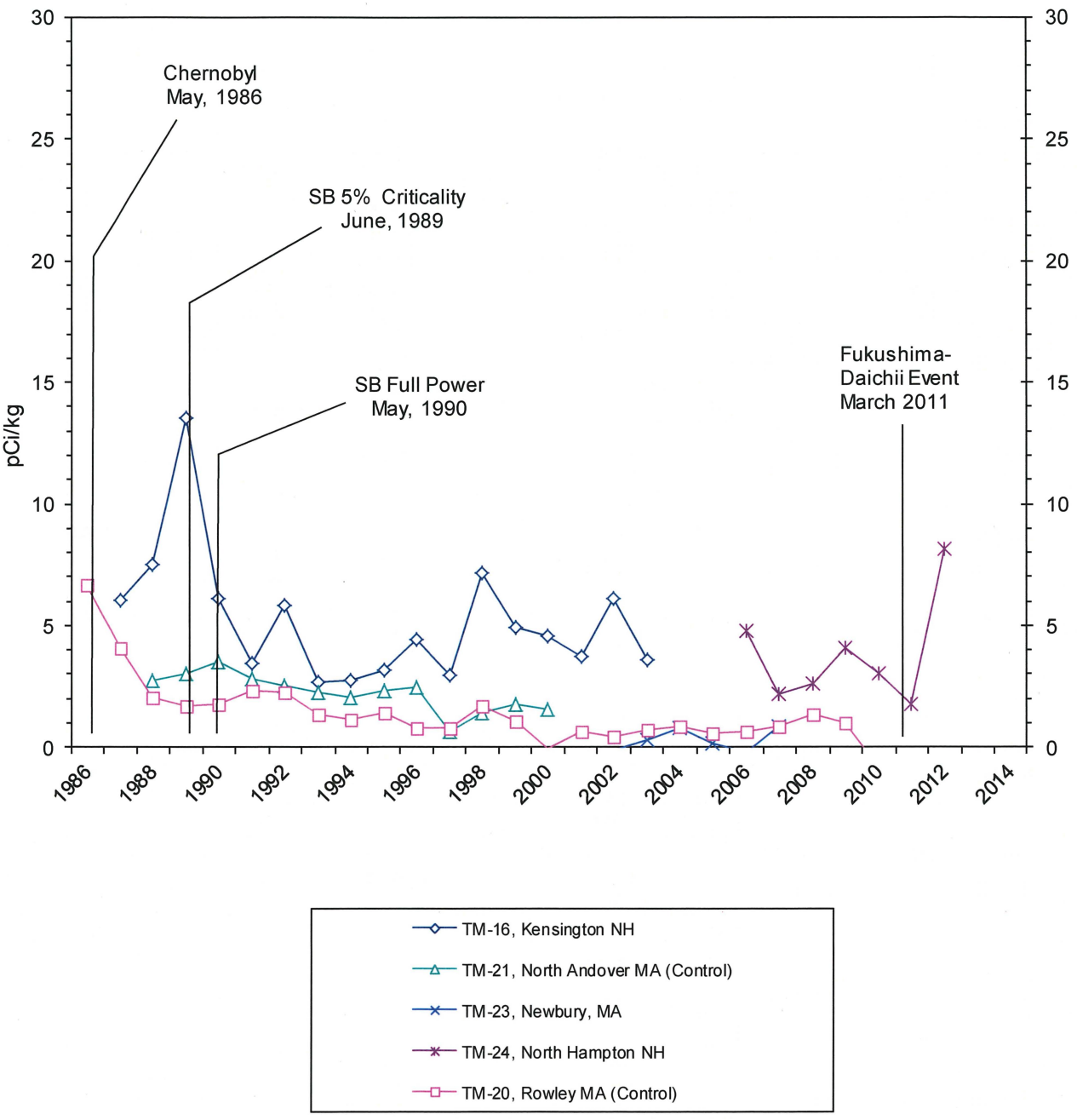


Table 3.3-1

Radiological Environmental Monitoring Program Summary
Seabrook Nuclear Power Station, Seabrook, NH
(January - December 2020)

MEDIUM: Milk (TM) UNITS: pCi/kg

Radionuclides (No. Analyses) (Non-Routine*)		Required LLD	Indicator Stations Mean Range (No. Detected**)	Station	Station With Highest Mean Mean Range (No. Detected**)	Control Stations Mean Range (No. Detected**)
Be-7	**(18)**		2.2E 0	15	2.2E 0	NO DATA
	(0)		(-4.2 - 10.8)E 0 (0/ 18)		(-4.2 - 10.8)E 0 (0/ 18)	
K-40	**(18)**		1.6E 3	15	1.6E 3	NO DATA
	(0)		(1.4 - 1.7)E 3 (18/ 18)		(1.4 - 1.7)E 3 (18/ 18)	
Cr-51	**(18)**		1.4E -1	15	1.4E -1	NO DATA
	(0)		(-1.0 - 1.1)E 1 (0/ 18)		(-1.0 - 1.1)E 1 (0/ 18)	
Mn-54	**(18)**		6.5E -3	15	6.5E -3	NO DATA
	(0)		(-1.4 - 0.8)E 0 (0/ 18)		(-1.4 - 0.8)E 0 (0/ 18)	
Co-57	**(18)**		7.0E -3	15	7.0E -3	NO DATA
	(0)		(-1.1 - 1.0)E 0 (0/ 18)		(-1.1 - 1.0)E 0 (0/ 18)	
Co-58	**(18)**		-1.2E -1	15	-1.2E -1	NO DATA
	(0)		(-8.4 - 9.3)E -1 (0/ 18)		(-8.4 - 9.3)E -1 (0/ 18)	
Fe-59	**(18)**		-1.0E -2	15	-1.0E -2	NO DATA
	(0)		(-1.7 - 3.8)E 0 (0/ 18)		(-1.7 - 3.8)E 0 (0/ 18)	
Co-60	**(18)**		3.4E -1	15	3.4E -1	NO DATA
	(0)		(-7.0 - 12.7)E -1 (0/ 18)		(-7.0 - 12.7)E -1 (0/ 18)	
Zn-65	**(18)**		-5.1E -2	15	-5.1E -2	NO DATA
	(0)		(-5.2 - 3.2)E 0 (0/ 18)		(-5.2 - 3.2)E 0 (0/ 18)	
Se-75	**(18)**		2.0E -1	15	2.0E -1	NO DATA
	(0)		(-1.5 - 1.7)E 0 (0/ 18)		(-1.5 - 1.7)E 0 (0/ 18)	
Nb-95	**(18)**		1.4E -1	15	1.4E -1	NO DATA
	(0)		(-7.7 - 12.6)E -1 (0/ 18)		(-7.7 - 12.6)E -1 (0/ 18)	
Zr-95	**(18)**		-4.0E -1	15	-4.0E -1	NO DATA
	(0)		(-2.2 - 0.6)E 0 (0/ 18)		(-2.2 - 0.6)E 0 (0/ 18)	
Ru-103	**(18)**		-2.0E -1	15	-2.0E -1	NO DATA
	(0)		(-1.5 - 1.2)E 0 (0/ 18)		(-1.5 - 1.2)E 0 (0/ 18)	
Ru-106	**(18)**		4.6E -1	15	4.6E -1	NO DATA
	(0)		(-8.6 - 13.9)E 0 (0/ 18)		(-8.6 - 13.9)E 0 (0/ 18)	
Ag-108m	**(18)**		3.0E -1	15	3.0E -1	NO DATA
	(0)		(-5.0 - 21.2)E -1 (0/ 18)		(-5.0 - 21.2)E -1 (0/ 18)	

* Non-Routine refers to those radionuclides that exceeded the Reporting Levels in ODCM Table A.9.1-3.
** The fraction of detectable measurements (i.e., > MDC with no uncertain identification) is shown in parentheses.

Table 3.3-1 (Continued)

Radiological Environmental Monitoring Program Summary
Seabrook Nuclear Power Station, Seabrook, NH
(January - December 2020)

MEDIUM: Milk (TM) UNITS: pCi/kg

Radionuclides (No. Analyses) (Non-Routine*)		Required LLD	Indicator Stations Mean Range (No. Detected**)	Station With Highest Mean Station	Station With Highest Mean Mean Range (No. Detected**)	Control Stations Mean Range (No. Detected**)
Ag-110m	(18)		-2.5E -1	15	-2.5E -1	NO DATA
	(0)		(-2.3 - 1.5)E 0 (0/ 18)		(-2.3 - 1.5)E 0 (0/ 18)	
Sb-124	(18)		-1.9E -1	15	-1.9E -1	NO DATA
	(0)		(-2.0 - 2.0)E 0 (0/ 18)		(-2.0 - 2.0)E 0 (0/ 18)	
Sb-125	(18)		1.2E -2	15	1.2E -2	NO DATA
	(0)		(-2.7 - 3.2)E 0 (0/ 18)		(-2.7 - 3.2)E 0 (0/ 18)	
I-131	(18)	1	1.7E -2	15	1.7E -2	NO DATA
	(0)		(-5.9 - 4.8)E -1 (0/ 18)		(-5.9 - 4.8)E -1 (0/ 18)	
Cs-134	(18)	15	2.1E -1	15	2.1E -1	NO DATA
	(0)		(-1.8 - 2.2)E 0 (0/ 18)		(-1.8 - 2.2)E 0 (0/ 18)	
Cs-137	(18)	18	7.1E 0	15	7.1E 0	NO DATA
	(0)		(0.0 - 1.4)E 1 (14/ 18)		(0.0 - 1.4)E 1 (14/ 18)	
Ba-140	(18)	15	-2.4E -1	15	-2.4E -1	NO DATA
	(0)		(-1.0 - 1.3)E 1 (0/ 18)		(-1.0 - 1.3)E 1 (0/ 18)	
La-140	(18)	15	-1.9E -1	15	-1.9E -1	NO DATA
	(0)		(-1.5 - 1.1)E 0 (0/ 18)		(-1.5 - 1.1)E 0 (0/ 18)	
Ce-141	(18)		-6.4E -1	15	-6.4E -1	NO DATA
	(0)		(-2.9 - 2.5)E 0 (0/ 18)		(-2.9 - 2.5)E 0 (0/ 18)	
Ce-144	(18)		-1.5E 0	15	-1.5E 0	NO DATA
	(0)		(-9.6 - 4.0)E 0 (0/ 18)		(-9.6 - 4.0)E 0 (0/ 18)	
Pb-212	(18)		1.2E 0	15	1.2E 0	NO DATA
	(0)		(-2.5 - 5.6)E 0 (0/ 18)		(-2.5 - 5.6)E 0 (0/ 18)	
Pb-214	(18)		-1.4E -1	15	-1.4E -1	NO DATA
	(0)		(-5.3 - 5.3)E 0 (0/ 18)		(-5.3 - 5.3)E 0 (0/ 18)	
Bi-214	(18)		4.0E -1	15	4.0E -1	NO DATA
	(0)		(-2.9 - 4.0)E 0 (0/ 18)		(-2.9 - 4.0)E 0 (0/ 18)	
Ac-228	(18)		-8.7E -1	15	-8.7E -1	NO DATA
	(0)		(-7.2 - 9.3)E 0 (0/ 18)		(-7.2 - 9.3)E 0 (0/ 18)	
Th-228	(18)		1.2E 0	15	1.2E 0	NO DATA
	(0)		(-2.5 - 5.6)E 0 (0/ 18)		(-2.5 - 5.6)E 0 (0/ 18)	

* Non-Routine refers to those radionuclides that exceeded the Reporting Levels in ODCM Table A.9.1-3.
** The fraction of detectable measurements (i.e., > MDC with no uncertain identification) is shown in parentheses.

3.4 Surface Water

Surface water (seawater - WS) grab samples are required at two locations (control and indicator) monthly. The indicator (WS-01) is over the vicinity of the plant's submerged discharge structure. The control location (WS-51) is situated in Ipswich Bay, MA, approximately 26.2 km from the plant. A gamma analysis is performed on each sample. A tritium analysis is performed on the quarterly composite of samples from each ODCM required location. Additional samples were collected from the Seabrook Marsh (WS-10) which borders the immediate plant property. The marsh samples are intended to provide indication of any ground water movement across the site area that might carry contamination into the surface waters of the marsh. Each of these samples is analyzed for both gamma emitters and tritium.

For 2020, a total of 26 gamma analyses were performed on surface water samples. The only radionuclides detected were naturally-occurring K-40, which was detected in 25 out of 26 samples, naturally-occurring Pb-212, which was detected in two samples, Bi-214, which was detected in one sample, and Th-228, which was detected in two samples. No plant-related nuclides were detected. The present data for gamma emitters in seawater is consistent with that of the pre-operational program and previous years of operations. Therefore, no increasing or decreasing trends were observed.

Quarterly composites for the required off-shore locations (Stations WS-01 and WS-51) were analyzed for tritium. A total of 8 off-shore samples (composites) were analyzed in 2020. The quarterly composite samples showed no indication of tritium. All samples met the required minimum LLD (3000 pCi/kg) for tritium in seawater. These results are consistent with pre-operational tritium data. The achieved tritium Minimum Detectable Concentration (MDC) for the quarterly off-shore composite samples averaged 424 pCi/kg.

The calculated dose as the result of plant effluents is not evaluated due to the fact that no plant-related radionuclides were or have been detected in the past. Therefore, no increasing or decreasing trends in dose were observed. This sampling program demonstrates that there is no impact to the public or environment, through this pathway from plant operations.

The REMP Summary Table 3.4-1 lists the range of analysis results by radionuclide for Indicator and Control Stations for the sea water environmental media. Attachment 1 to this report lists the individual analysis results for each measurement of sea water under the Sample Type code WS.

Any sample collection and analysis deviations from the ODCM required program or reportable concentrations that may have occurred during the year are described in Section 5.

Table 3.4-1

Radiological Environmental Monitoring Program Summary
Seabrook Nuclear Power Station, Seabrook, NH
(January - December 2020)

MEDIUM: Sea Water (WS) UNITS: pCi/kg

Radionuclides (No. Analyses) (Non-Routine*)		Required LLD	Indicator Stations Mean Range (No. Detected**)	Station With Highest Mean Station	 Mean Range (No. Detected**)	Control Stations Mean Range (No. Detected**)
H-3	**(8)**	3000	3.3E 1	01	3.3E 1	1.2E 1
	(0)		(-9.1 - 24.5)E 1 (0/ 4)		(-9.1 - 24.5)E 1 (0/ 4)	(-1.8 - 1.4)E 2 (0/ 4)
Be-7	**(26)**		4.0E -1	01	1.1E 0	9.7E -3
	(0)		(-6.5 - 8.4)E 0 (0/ 14)		(-6.5 - 8.4)E 0 (0/ 12)	(-1.2 - 0.6)E 1 (0/ 12)
K-40	**(26)**	30	3.1E 2	01	3.4E 2	3.1E 2
	(0)		(1.1 - 3.7)E 2 (14/ 14)		(3.1 - 3.7)E 2 (12/ 12)	(2.8 - 3.4)E 2 (11/ 12)
Cr-51	**(26)**		-2.6E 0	51	6.8E -1	6.8E -1
	(0)		(-1.5 - 0.9)E 1 (0/ 14)		(-5.7 - 9.9)E 0 (0/ 12)	(-5.7 - 9.9)E 0 (0/ 12)
Mn-54	**(26)**	15	-2.5E -1	01	-1.2E -1	-1.3E -1
	(0)		(-1.4 - 1.1)E 0 (0/ 14)		(-8.0 - 10.5)E -1 (0/ 12)	(-7.9 - 3.5)E -1 (0/ 12)
Co-57	**(26)**		3.2E -1	01	3.8E -1	-1.7E -1
	(0)		(-4.7 - 9.7)E -1 (0/ 14)		(-4.7 - 9.7)E -1 (0/ 12)	(-1.7 - 0.3)E 0 (0/ 12)
Co-58	**(26)**	15	5.5E -2	01	1.2E -1	-2.4E -1
	(0)		(-1.5 - 1.3)E 0 (0/ 14)		(-1.5 - 1.3)E 0 (0/ 12)	(-6.1 - 3.5)E -1 (0/ 12)
Fe-59	**(26)**	30	1.3E -1	01	2.6E -1	1.9E -1
	(0)		(-2.7 - 2.3)E 0 (0/ 14)		(-2.7 - 2.3)E 0 (0/ 12)	(-4.0 - 3.4)E 0 (0/ 12)
Co-60	**(26)**	15	6.7E -1	10	7.9E -1	4.1E -1
	(0)		(-1.4 - 28.8)E -1 (0/ 14)		(4.1 - 11.8)E -1 (0/ 2)	(-1.9 - 1.7)E 0 (0/ 12)
Zn-65	**(26)**	30	1.8E -1	10	8.8E -1	-7.8E -2
	(0)		(-2.4 - 3.0)E 0 (0/ 14)		(3.2 - 172.0)E -2 (0/ 2)	(-2.1 - 1.3)E 0 (0/ 12)
Se-75	**(26)**		7.0E -3	51	2.8E -1	2.8E -1
	(0)		(-1.0 - 1.6)E 0 (0/ 14)		(-1.5 - 1.7)E 0 (0/ 12)	(-1.5 - 1.7)E 0 (0/ 12)
Nb-95	**(26)**	15	3.0E -1	10	5.0E -1	5.8E -2
	(0)		(-9.4 - 13.5)E -1 (0/ 14)		(-6.3 - 106.0)E -2 (0/ 2)	(-3.5 - 5.3)E -1 (0/ 12)
Zr-95	**(26)**	15	-1.2E -1	01	-5.1E -2	-2.5E -1
	(0)		(-2.1 - 2.9)E 0 (0/ 14)		(-2.1 - 2.9)E 0 (0/ 12)	(-2.5 - 1.5)E 0 (0/ 12)
Ru-103	**(26)**		-4.8E -1	51	-7.0E -2	-7.0E -2
	(0)		(-1.1 - 0.3)E 0 (0/ 14)		(-1.3 - 0.8)E 0 (0/ 12)	(-1.3 - 0.8)E 0 (0/ 12)
Ru-106	**(26)**		-4.0E -1	51	1.5E 0	1.5E 0
	(0)		(-1.6 - 0.6)E 1 (0/ 14)		(-7.0 - 9.7)E 0 (0/ 12)	(-7.0 - 9.7)E 0 (0/ 12)

* Non-Routine refers to those radionuclides that exceeded the Reporting Levels in ODCM Table A.9.1-3.
** The fraction of detectable measurements (i.e., > MDC with no uncertain identification) is shown in parentheses.

Table 3.4-1 (Continued)

Radiological Environmental Monitoring Program Summary
Seabrook Nuclear Power Station, Seabrook, NH
(January - December 2020)

MEDIUM: Sea Water (WS) UNITS: pCi/kg

Radionuclides (No. Analyses) (Non-Routine*)		Required LLD	Indicator Stations Mean Range (No. Detected**)	Station With Highest Mean Station	Station With Highest Mean Mean Range (No. Detected**)	Control Stations Mean Range (No. Detected**)
Ag-108m	(26)		-3.9E -2	10	3.9E -2	-1.8E -1
	(0)		(-8.9 - 6.2)E -1 (0/ 14)		(-2.3 - 3.1)E -1 (0/ 2)	(-5.5 - 5.2)E -1 (0/ 12)
Ag-110m	(26)		-2.2E -1	10	-2.0E -1	-3.3E -1
	(0)		(-1.4 - 0.7)E 0 (0/ 14)		(-1.1 - 0.7)E 0 (0/ 2)	(-1.4 - 0.4)E 0 (0/ 12)
Sb-124	(26)		-2.6E -1	51	3.9E -1	3.9E -1
	(0)		(-2.0 - 3.8)E 0 (0/ 14)		(-1.7 - 3.2)E 0 (0/ 12)	(-1.7 - 3.2)E 0 (0/ 12)
Sb-125	(26)		-2.9E -3	51	2.8E -1	2.8E -1
	(0)		(-1.7 - 3.8)E 0 (0/ 14)		(-2.1 - 2.9)E 0 (0/ 12)	(-2.1 - 2.9)E 0 (0/ 12)
I-131	(26)	15	1.9E -1	10	4.7E -1	-2.0E -1
	(0)		(-2.0 - 1.7)E 0 (0/ 14)		(-1.3 - 10.7)E -1 (0/ 2)	(-2.5 - 2.5)E 0 (0/ 12)
Cs-134	(26)	15	1.3E -1	01	2.1E -1	-5.1E -2
	(0)		(-1.8 - 1.2)E 0 (0/ 14)		(-1.8 - 1.2)E 0 (0/ 12)	(-2.9 - 1.3)E 0 (0/ 12)
Cs-137	(26)	18	2.0E -1	10	2.7E -1	-2.9E -1
	(0)		(-6.8 - 14.8)E -1 (0/ 14)		(-1.3 - 6.8)E -1 (0/ 2)	(-1.2 - 0.6)E 0 (0/ 12)
Ba-140	(26)	15	9.5E -1	01	1.4E 0	5.0E -1
	(0)		(-4.5 - 5.5)E 0 (0/ 14)		(-4.5 - 5.5)E 0 (0/ 12)	(-3.6 - 4.0)E 0 (0/ 12)
La-140	(26)	15	-4.5E -1	10	1.1E -1	-9.5E -1
	(0)		(-4.0 - 2.6)E 0 (0/ 14)		(-1.3 - 1.5)E 0 (0/ 2)	(-3.5 - 0.5)E 0 (0/ 12)
Ce-141	(26)		-1.2E 0	01	-1.1E 0	-1.1E 0
	(0)		(-4.8 - 2.4)E 0 (0/ 14)		(-4.8 - 2.4)E 0 (0/ 12)	(-5.1 - 1.6)E 0 (0/ 12)
Ce-144	(26)		-2.1E -1	51	3.5E -1	3.5E -1
	(0)		(-3.2 - 5.3)E 0 (0/ 14)		(-6.4 - 10.3)E 0 (0/ 12)	(-6.4 - 10.3)E 0 (0/ 12)
Pb-212	(26)		9.8E -1	10	1.2E 0	8.4E -2
	(0)		(-5.7 - 8.5)E 0 (2/ 14)		(2.5 - 21.5)E -1 (0/ 2)	(-4.6 - 2.9)E 0 (0/ 12)
Pb-214	(26)		6.7E -1	10	1.6E 0	-1.2E 0
	(0)		(-3.7 - 5.9)E 0 (0/ 14)		(1.1 - 31.4)E -1 (0/ 2)	(-5.8 - 2.8)E 0 (0/ 12)

* Non-Routine refers to those radionuclides that exceeded the Reporting Levels in ODCM Table A.9.1-3.
** The fraction of detectable measurements (i.e., > MDC with no uncertain identification) is shown in parentheses

Table 3.4-1 (Continued)

Radiological Environmental Monitoring Program Summary
Seabrook Nuclear Power Station, Seabrook, NH
(January - December 2020)

MEDIUM: Sea Water (WS) UNITS: pCi/kg

Radionuclides (No. Analyses) (Non-Routine*)		Required LLD	Indicator Stations Mean Range (No. Detected**)	Station With Highest Mean Station	Station With Highest Mean Mean Range (No. Detected**)	Control Stations Mean Range (No. Detected**)
Bi-214	**(26)**		2.7E -1	01	6.2E -1	6.1E -1
	(0)		(-2.7 - 3.5)E 0		(-2.3 - 3.5)E 0	(-2.3 - 10.1)E 0
			(0/ 14)		(0/ 12)	(1/ 12)
Ac-228	**(26)**		1.9E -1	10	1.7E 0	6.7E -1
	(0)		(-1.1 - 0.7)E 1		(0.0 - 3.4)E 0	(-9.6 - 10.1)E 0
			(0/ 14)		(0/ 2)	(0/ 12)
Th-228	**(26)**		9.8E -1	10	1.2E 0	8.4E -2
	(0)		(-5.7 - 8.5)E 0		(2.5 - 21.5)E -1	(-4.6 - 2.9)E 0
			(2/ 14)		(0/ 2)	(0/ 12)

* Non-Routine refers to those radionuclides that exceeded the Reporting Levels in ODCM Table A.9.1-3.
** The fraction of detectable measurements (i.e., > MDC with no uncertain identification) is shown in parentheses.

3.5 Ground Water

There is no requirement in the ODCM to collect ground water (WG) samples. For the year, quarterly ground water samples were collected when available from three locations. These samples were collected from the town water line (WG-01) supplied to the Site (by the Town of Seabrook), from an inactive well (WG-13) located approximately 1 km north of the plant, and from a private well 1.3 km NNW (WG-14). For 2020, a total of 12 samples were collected. All samples were analyzed for gross-beta activity, gamma-emitters and tritium.

Gross beta activity was detected in seven of the twelve samples due to naturally-occurring radium and its daughter products. The gross beta activity is consistent with results from previous years of commercial operations. Figures 3.5 and 3.5.1 indicate the current year (2020) and the long-term measurement history for gross beta in well waters. No tritium or plant-related gamma emitters were detected in any of the ground water samples collected during the year. Table 3.5-1 identifies the results of the search for radionuclides of which only naturally-occurring K-40 was detected in one sample, Pb-212 in one sample, Pb-214 in eight samples, Bi-214 in nine samples, and Th-228 was detected in one of 12 samples.

The dose potential to the public from drinking ground water is not evaluated due to the fact that plant-related radionuclides have not been detected. Therefore, no increasing or decreasing trends were observed. There is no impact to the public, through this pathway, from plant operations.

The REMP Summary Table 3.5-1 lists the range of analysis results by radionuclide for all ground water environmental samples. Attachment 1 to this report lists the individual analysis results for each measurement of ground water under the Sample Type code WG.

Any reportable sample concentrations that may have occurred during the year are described in Section 5.

FIGURE 3.5

GROSS-BETA MEASUREMENTS OF GROUND WATER
SEABROOK STATION

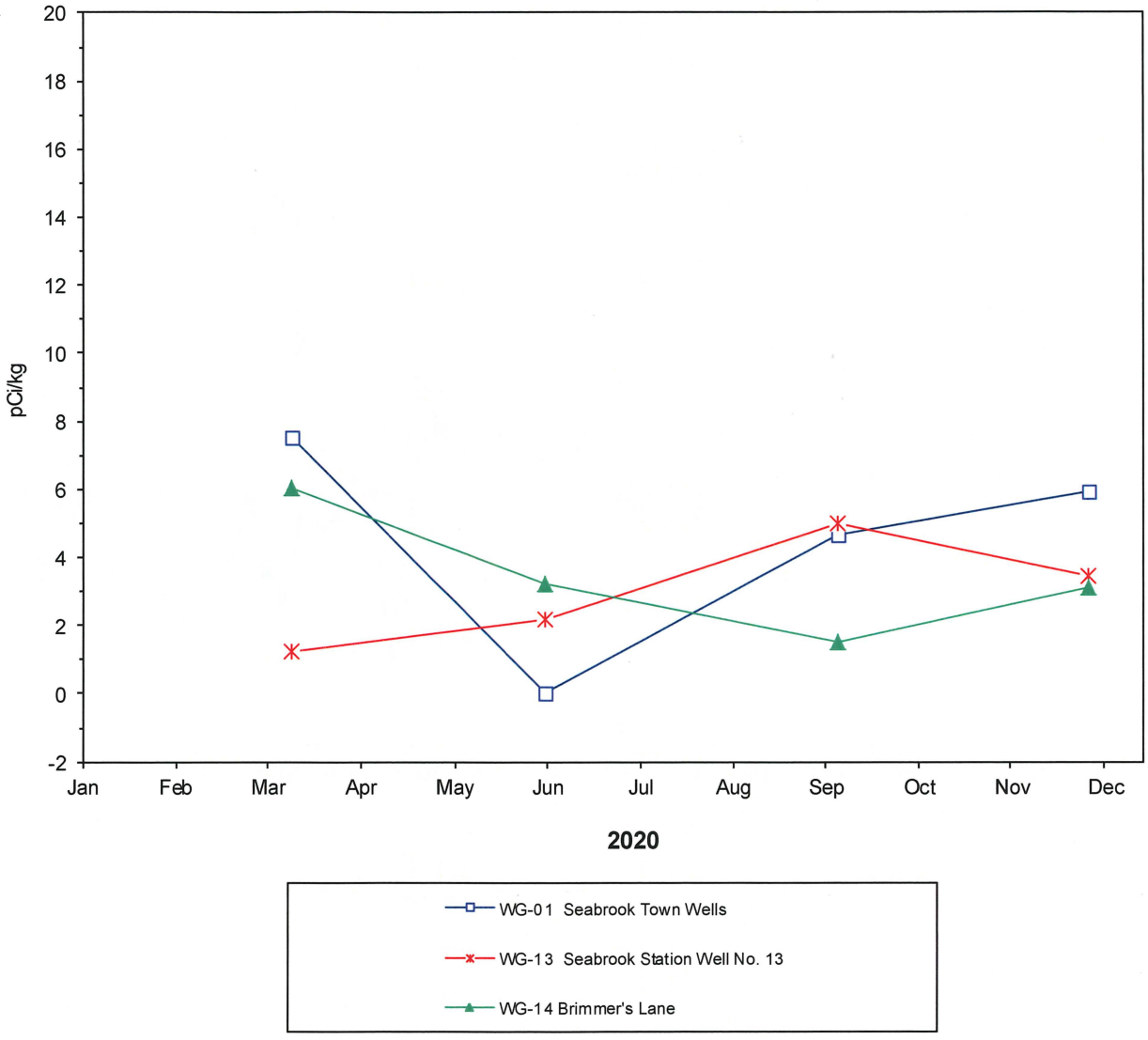


FIGURE 3.5.1

GROSS-BETA MEASUREMENTS OF GROUND WATER
SEMI-ANNUAL AVERAGES
SEABROOK STATION

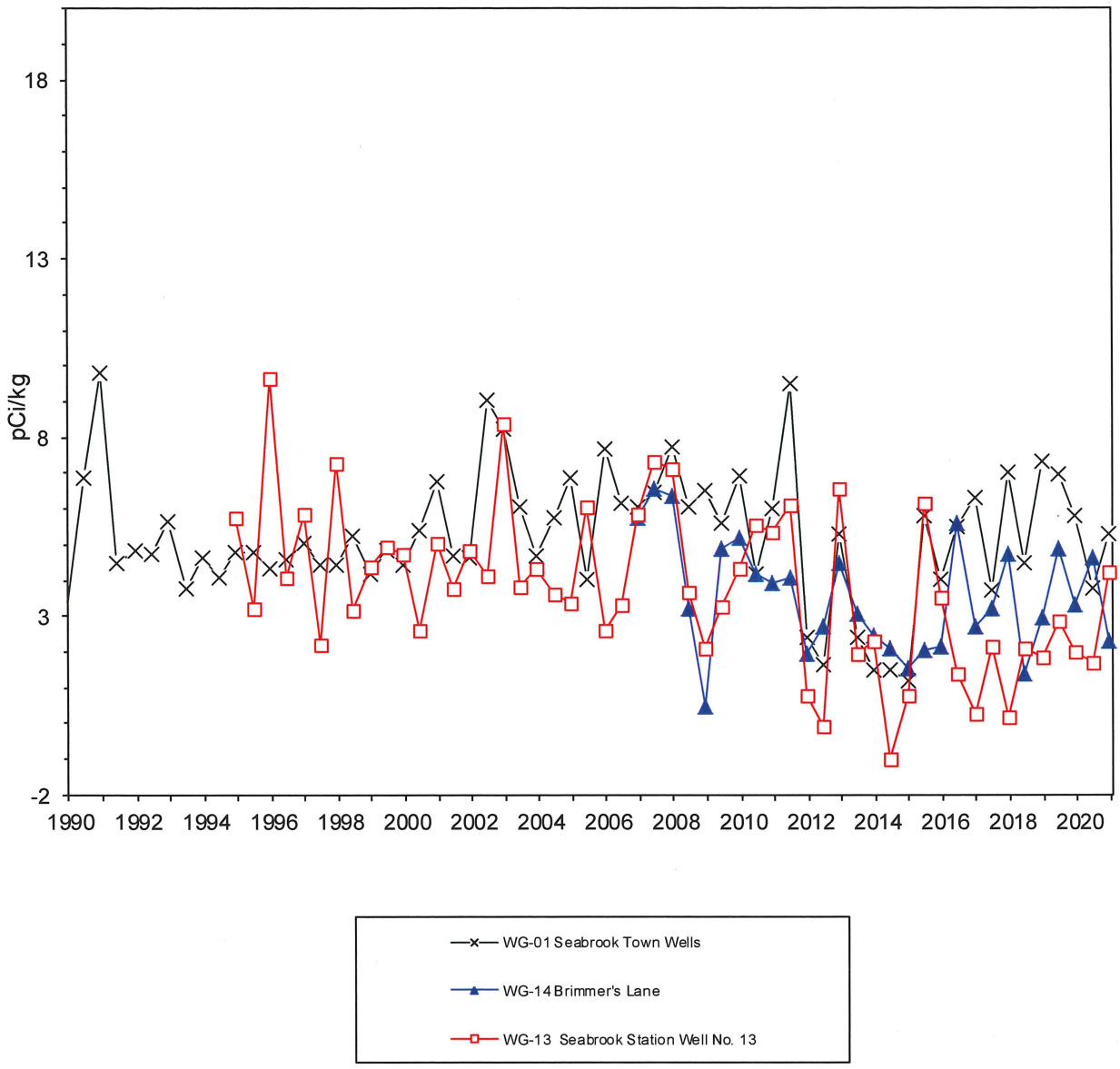


Table 3.5-1

Radiological Environmental Monitoring Program Summary
Seabrook Nuclear Power Station, Seabrook, NH
(January - December 2020)

MEDIUM: Ground Water (WG) UNITS: pCi/kg

Radionuclides (No. Analyses) (Non-Routine*)		Required LLD	Indicator Stations Mean Range (No. Detected**)	Station With Highest Mean Station	Station With Highest Mean Mean Range (No. Detected**)	Control Stations Mean Range (No. Detected**)
BETA	(12)	4	3.7E 0	01	4.5E 0	NO DATA
	(0)		(1.3 - 751.0)E -2		(1.3 - 751.0)E -2	
			(7/ 12)		(3/ 4)	
H-3	(12)	3000	6.4E 1	14	1.1E 2	NO DATA
	(0)		(-1.3 - 2.5)E 2		(-2.5 - 24.6)E 1	
			(0/ 12)		(0/ 4)	
Be-7	(12)		-2.5E 0	13	-1.6E 0	NO DATA
	(0)		(-9.5 - 1.8)E 0		(-3.3 - 0.0)E 0	
			(0/ 12)		(0/ 4)	
K-40	(12)	30	-2.1E 0	13	1.2E 0	NO DATA
	(0)		(-2.1 - 2.6)E 1		(-2.1 - 2.6)E 1	
			(1/ 12)		(1/ 4)	
Cr-51	(12)		-1.6E 0	01	-6.8E -1	NO DATA
	(0)		(-1.1 - 0.6)E 1		(-6.6 - 6.4)E 0	
			(0/ 12)		(0/ 4)	
Mn-54	(12)	15	-1.8E -1	01	6.5E -3	NO DATA
	(0)		(-8.7 - 9.4)E -1		(-5.4 - 9.4)E -1	
			(0/ 12)		(0/ 4)	
Co-57	(12)		1.2E -1	13	1.8E -1	NO DATA
	(0)		(-4.7 - 8.8)E -1		(-3.2 - 8.3)E -1	
			(0/ 12)		(0/ 4)	
Co-58	(12)	15	1.4E -1	14	8.4E -1	NO DATA
	(0)		(-2.1 - 1.8)E 0		(2.9 - 18.1)E -1	
			(0/ 12)		(0/ 4)	
Fe-59	(12)	30	-2.0E -1	01	5.4E -1	NO DATA
	(0)		(-3.1 - 3.6)E 0		(-3.0 - 3.6)E 0	
			(0/ 12)		(0/ 4)	
Co-60	(12)	15	4.4E -2	01	2.9E -1	NO DATA
	(0)		(-6.0 - 12.6)E -1		(-6.0 - 12.6)E -1	
			(0/ 12)		(0/ 4)	
Zn-65	(12)	30	4.0E -1	01	1.6E 0	NO DATA
	(0)		(-2.5 - 3.6)E 0		(-1.0 - 3.6)E 0	
			(0/ 12)		(0/ 4)	
Se-75	(12)		-1.3E -1	13	3.4E -1	NO DATA
	(0)		(-1.4 - 1.3)E 0		(-3.1 - 130.0)E -2	
			(0/ 12)		(0/ 4)	
Nb-95	(12)	15	5.3E -1	14	9.8E -1	NO DATA
	(0)		(-7.9 - 15.8)E -1		(4.7 - 14.5)E -1	
			(0/ 12)		(0/ 4)	

* Non-Routine refers to those radionuclides that exceeded the Reporting Levels in ODCM Table A.9.1-3.
** The fraction of detectable measurements (i.e., > MDC with no uncertain identification) is shown in parentheses.

Table 3.5-1 (Continued)

Radiological Environmental Monitoring Program Summary
Seabrook Nuclear Power Station, Seabrook, NH
(January - December 2020)

MEDIUM: Ground Water (WG) UNITS: pCi/kg

Radionuclides (No. Analyses) (Non-Routine*)		Required LLD	Indicator Stations Mean Range (No. Detected**)	Station With Highest Mean Station	Station With Highest Mean Mean Range (No. Detected**)	Control Stations Mean Range (No. Detected**)
Zr-95	(12)	15	2.5E -1	14	5.2E -1	NO DATA
	(0)		(-2.2 - 2.4)E 0 (0/ 12)		(-1.6 - 2.4)E 0 (0/ 4)	
Ru-103	(12)		-2.1E -1	01	2.4E -1	NO DATA
	(0)		(-1.5 - 1.7)E 0 (0/ 12)		(-9.9 - 16.9)E -1 (0/ 4)	
Ru-106	(12)		3.2E -1	13	2.4E 0	NO DATA
	(0)		(-6.7 - 9.7)E 0 (0/ 12)		(-4.1 - 6.8)E 0 (0/ 4)	
Ag-108m	(12)		-6.6E -2	13	4.1E -1	NO DATA
	(0)		(-7.7 - 12.0)E -1 (0/ 12)		(-3.3 - 12.0)E -1 (0/ 4)	
Ag-110m	(12)		-1.1E -1	14	4.4E -1	NO DATA
	(0)		(-2.3 - 1.4)E 0 (0/ 12)		(-3.4 - 13.5)E -1 (0/ 4)	
Sb-124	(12)		1.4E -1	01	6.5E -1	NO DATA
	(0)		(-1.7 - 2.7)E 0 (0/ 12)		(-1.1 - 2.1)E 0 (0/ 4)	
Sb-125	(12)		-1.8E -1	13	6.2E -1	NO DATA
	(0)		(-2.8 - 3.6)E 0 (0/ 12)		(-9.2 - 14.8)E -1 (0/ 4)	
I-131	(12)	15	8.7E -3	13	7.3E -1	NO DATA
	(0)		(-2.7 - 2.9)E 0 (0/ 12)		(-4.2 - 29.4)E -1 (0/ 4)	
Cs-134	(12)	15	1.9E -1	14	6.1E -1	NO DATA
	(0)		(-8.4 - 15.1)E -1 (0/ 12)		(-6.3 - 151.0)E -2 (0/ 4)	
Cs-137	(12)	18	3.2E -1	01	6.9E -1	NO DATA
	(0)		(-7.3 - 17.5)E -1 (0/ 12)		(1.6 - 11.4)E -1 (0/ 4)	
Ba-140	(12)	15	3.3E -1	14	8.0E -1	NO DATA
	(0)		(-4.3 - 7.3)E 0 (0/ 12)		(-2.3 - 7.3)E 0 (0/ 4)	
La-140	(12)	15	-2.1E -1	01	-1.4E -3	NO DATA
	(0)		(-1.5 - 1.1)E 0 (0/ 12)		(-1.5 - 1.1)E 0 (0/ 4)	
Ce-141	(12)		-4.1E -1	01	9.4E -1	NO DATA
	(0)		(-4.5 - 2.6)E 0 (0/ 12)		(-4.7 - 26.4)E -1 (0/ 4)	

* Non-Routine refers to those radionuclides that exceeded the Reporting Levels in ODCM Table A.9.1-3.
** The fraction of detectable measurements (i.e., >3 standard deviations with no uncertain identification) is shown in parentheses.

Table 3.5-1 (Continued)
Radiological Environmental Monitoring Program Summary
Seabrook Nuclear Power Station, Seabrook, NH
(January - December 2020)

MEDIUM: Ground Water (WG) UNITS: pCi/kg

Radionuclides (No. Analyses) (Non-Routine*)		Required LLD	Indicator Stations Mean Range (No. Detected**)	Station With Highest Mean Station	Station With Highest Mean Mean Range (No. Detected**)	Control Stations Mean Range (No. Detected**)
Ce-144	(12)		3.8E -1	13	1.4E 0	NO DATA
	(0)		(-4.7 - 5.6)E 0 (0/ 12)		(-2.4 - 3.2)E 0 (0/ 4)	
Pb-212	(12)		1.2E 0	13	2.2E 0	NO DATA
	(0)		(-1.8 - 6.0)E 0 (1/ 12)		(-9.6 - 59.8)E -1 (1/ 4)	
Pb-214	(12)		8.1E 1	14	2.0E 2	NO DATA
	(0)		(-2.4 - 274.0)E 0 (8/ 12)		(7.3 - 27.4)E 1 (4/ 4)	
Bi-214	(12)		7.6E 1	14	1.9E 2	NO DATA
	(0)		(-9.0 - 2580.0)E -1 (9/ 12)		(6.6 - 25.8)E 1 (4/ 4)	
Ac-228	(12)		-9.9E -1	14	7.3E -1	NO DATA
	(0)		(-1.0 - 0.7)E 1 (0/ 12)		(-2.7 - 5.8)E 0 (0/ 4)	
Th-228	(12)		1.2E 0	13	2.2E 0	NO DATA
	(0)		(-1.8 - 6.0)E 0 (1/ 12)		(-9.6 - 59.8)E -1 (1/ 4)	

* Non-Routine refers to those radionuclides that exceeded the Reporting Levels in ODCM Table A.9.1-3.
** The fraction of detectable measurements (i.e., > MDC with no uncertain identification) is shown in parentheses.

3.6 Sediment

Semiannual sediment sampling is required at one indicator location, although a total of five locations, three indicators and two controls, are collected. The indicator stations are comprised of two sets of beach sediment cores from Hampton Beach (SE-07) and Seabrook Beach (SE-08), plus two sub-tidal sediment cores taken from near the discharge structure (SE-02). The control locations, Plum Island Beach (SE-57) and sub-tidal Ipswich Bay (SE-52), are both located within Ipswich Bay. A total of 10 samples were collected for the year from all locations. All cores were analyzed as single or whole samples without segmenting. A gamma analysis was performed on each core.

Table 3.6-1 identifies the results of the search for radionuclides of which several naturally-occurring were detected. The naturally-occurring radionuclides include Be-7, K-40 and nuclides of the Uranium-238 decay chain (Th-230, Ra-226, Pb-214 and Bi-214) and the Thorium-232 decay chain (Ac-228, Th-228, Pb-212, and Tl-208). No plant-related radionuclides were detected in any core. No increasing or decreasing trends were observed. This is consistent with the pre-operational program and with previous years of plant operations. There is no plant related dose to the public or impact to the environment from any pathways associated with this media.

The REMP Summary Table 3.6-1 lists the range of analysis results by radionuclide for Indicator and Control Stations for the sediment environmental media. Attachment 1 to this report lists the individual analysis results for each measurement of sediment under the Sample Type code SE.

Any sample collection and analysis deviations from the ODCM required program, or reportable concentrations that may have occurred during the year are described in Section 5.

Table 3.6-1
Radiological Environmental Monitoring Program Summary
Seabrook Nuclear Power Station, Seabrook, NH
(January - December 2020)

MEDIUM: Sediment (SE) UNITS: pCi/kg

Radionuclides (No. Analyses) (Non-Routine*)	Required LLD	Indicator Stations: Mean Range (No. Detected**)	Station With Highest Mean: Station	Station With Highest Mean: Mean Range (No. Detected**)	Control Stations: Mean Range (No. Detected**)
Be-7 (10)		-9.1E 0	57	2.9E 2	2.4E 2
(0)		(-1.4 - 1.3)E 2		(2.2 - 3.6)E 2	(-2.6 - 390.0)E 0
		(0/ 6)		(1/ 2)	(1/ 4)
K-40 (10)		1.8E 4	08	2.1E 4	1.7E 4
(0)		(1.4 - 2.4)E 4		(1.9 - 2.4)E 4	(1.3 - 2.2)E 4
		(6/ 6)		(2/ 2)	(4/ 4)
Cr-51 (10)		2.9E 0	52	1.9E 2	1.6E 2
(0)		(-7.5 - 6.6)E 1		(-4.7 - 43.1)E 1	(-4.7 - 43.1)E 1
		(0/ 6)		(0/ 2)	(0/ 4)
Mn-54 (10)		5.9E 0	52	1.7E 1	8.8E 0
(0)		(-1.3 - 2.6)E 1		(6.6 - 28.1)E 0	(-6.7 - 28.1)E 0
		(0/ 6)		(0/ 2)	(0/ 4)
Co-57 (10)		-1.6E -1	08	5.9E 0	1.6E -1
(0)		(-1.1 - 0.7)E 1		(5.1 - 6.7)E 0	(-1.7 - 1.1)E 1
		(0/ 6)		(0/ 2)	(0/ 4)
Co-58 (10)		-8.4E 0	52	8.4E 0	3.9E 0
(0)		(-4.2 - 0.8)E 1		(-3.6 - 20.4)E 0	(-5.8 - 20.4)E 0
		(0/ 6)		(0/ 2)	(0/ 4)
Fe-59 (10)		-4.8E 0	07	2.5E 1	-1.1E 1
(0)		(-5.6 - 3.8)E 1		(1.3 - 3.8)E 1	(-3.3 - 0.6)E 1
		(0/ 6)		(0/ 2)	(0/ 4)
Co-60 (10)		1.7E 0	02	1.9E 1	-5.1E 0
(0)		(-1.9 - 4.0)E 1		(-1.6 - 39.6)E 0	(-1.5 - 0.5)E 1
		(0/ 6)		(0/ 2)	(0/ 4)
Zn-65 (10)		-1.1E 1	08	2.6E 1	-3.6E 1
(0)		(-9.1 - 4.2)E 1		(1.1 - 4.2)E 1	(-7.4 - -1.5)E 1
		(0/ 6)		(0/ 2)	(0/ 4)
Se-75 (10)		4.7E 0	07	1.5E 1	-2.4E -1
(0)		(-1.2 - 2.2)E 1		(7.7 - 22.3)E 0	(-1.1 - 0.9)E 1
		(0/ 6)		(0/ 2)	(0/ 4)
Nb-95 (10)		7.2E 0	02	3.3E 1	5.5E 0
(0)		(-1.4 - 3.8)E 1		(2.9 - 3.8)E 1	(-8.9 - 20.4)E 0
		(0/ 6)		(0/ 2)	(0/ 4)
Zr-95 (10)		3.1E 1	02	5.9E 1	1.7E 1
(0)		(-1.0 - 8.6)E 1		(3.1 - 8.6)E 1	(-2.3 - 5.7)E 1
		(0/ 6)		(0/ 2)	(0/ 4)
Ru-103 (10)		-6.9E 0	57	3.6E 0	2.1E 0
(0)		(-3.4 - 1.5)E 1		(-8.9 - 80.3)E -1	(-4.9 - 8.0)E 0
		(0/ 6)		(0/ 2)	(0/ 4)

* Non-Routine refers to those radionuclides that exceeded the Reporting Levels in ODCM Table A.9.1-3.
** The fraction of detectable measurements (i.e., > MDC with no uncertain identification) is shown in parentheses.

Table 3.6-1 (Continued)

Radiological Environmental Monitoring Program Summary
Seabrook Nuclear Power Station, Seabrook, NH
(January - December 2020)

MEDIUM: Sediment (SE) UNITS: pCi/kg

Radionuclides (No. Analyses) (Non-Routine*)		Required LLD	Indicator Stations Mean Range (No. Detected**)	Station With Highest Mean Station	Station With Highest Mean Mean Range (No. Detected**)	Control Stations Mean Range (No. Detected**)
Ru-106	(10)		-9.9E 0	57	1.1E 2	1.1E 2
	(0)		(-5.7 - 7.6)E 1 (0/ 6)		(6.0 - 16.4)E 1 (0/ 2)	(5.9 - 16.4)E 1 (0/ 4)
Ag-108m	(10)		5.2E 0	07	8.0E 0	-2.1E 0
	(0)		(-3.5 - 19.5)E 0 (0/ 6)		(-3.5 - 19.5)E 0 (0/ 2)	(-3.7 - 1.4)E 0 (0/ 4)
Ag-110m	(10)		1.2E 0	08	1.5E 1	-2.0E 0
	(0)		(-2.0 - 3.5)E 1 (0/ 6)		(-4.8 - 35.1)E 0 (0/ 2)	(-6.1 - 0.6)E 0 (0/ 4)
Sb-124	(10)		-1.7E 1	57	9.2E 0	5.4E 0
	(0)		(-5.7 - 0.8)E 1 (0/ 6)		(5.5 - 12.9)E 0 (0/ 2)	(-2.7 - 3.0)E 1 (0/ 4)
Sb-125	(10)		7.4E 0	08	2.0E 1	-2.3E 1
	(0)		(-3.1 - 2.3)E 1 (0/ 6)		(1.7 - 2.3)E 1 (0/ 2)	(-3.8 - 0.1)E 1 (0/ 4)
I-131	(10)		-1.5E 1	57	8.1E 1	7.7E 1
	(0)		(-1.7 - 1.9)E 2 (0/ 6)		(9.6 - 152.0)E 0 (0/ 2)	(-9.0 - 155.0)E 0 (0/ 4)
Cs-134	(10)	150	1.5E 1	02	2.5E 1	9.2E 0
	(0)		(0.0 - 4.9)E 1 (0/ 6)		(0.0 - 4.9)E 1 (0/ 2)	(0.0 - 3.7)E 1 (0/ 4)
Cs-137	(10)	180	-4.6E -1	02	7.1E 0	-7.3E -2
	(0)		(-5.6 - 8.6)E 0 (0/ 6)		(5.6 - 8.6)E 0 (0/ 2)	(-1.9 - 1.0)E 1 (0/ 4)
Ba-140	(10)		5.7E 1	07	1.8E 2	1.2E 2
	(0)		(-1.6 - 3.9)E 2 (0/ 6)		(-2.6 - 39.4)E 1 (0/ 2)	(1.0 - 28.6)E 1 (0/ 4)
La-140	(10)		-3.7E 1	57	9.3E 1	5.1E 1
	(0)		(-1.4 - 0.0)E 2 (0/ 6)		(-8.1 - 194.0)E 0 (0/ 2)	(-8.1 - 194.0)E 0 (0/ 4)
Ce-141	(10)		-1.9E 1	07	2.1E 1	-1.8E 1
	(0)		(-7.5 - 5.0)E 1 (0/ 6)		(-8.9 - 50.4)E 0 (0/ 2)	(-5.7 - 0.9)E 1 (0/ 4)
Ce-144	(10)		-8.6E 0	07	6.2E 1	1.4E 1
	(0)		(-1.1 - 1.2)E 2 (0/ 6)		(3.8 - 120.0)E 0 (0/ 2)	(-4.7 - 6.7)E 1 (0/ 4)
Tl-208	(10)		2.4E 2	52	8.4E 2	4.9E 2
	(0)		(8.1 - 52.4)E 1 (6/ 6)		(3.7 - 13.1)E 2 (2/ 2)	(1.1 - 13.1)E 2 (4/ 4)

* Non-Routine refers to those radionuclides that exceeded the Reporting Levels in ODCM Table A.9.1-3.
** The fraction of detectable measurements (i.e., > MDC with no uncertain identification) is shown in parentheses.

Table 3.6-1 (Continued)
Radiological Environmental Monitoring Program Summary
Seabrook Nuclear Power Station, Seabrook, NH
(January - December 2020)

MEDIUM: Sediment (SE) UNITS: pCi/kg

Radionuclides (No. Analyses) (Non-Routine*)		Required LLD	Indicator Stations Mean Range (No. Detected**)	Station With Highest Mean Station	Station With Highest Mean Mean Range (No. Detected**)	Control Stations Mean Range (No. Detected**)
Pb-212	(10)		8.1E 2	52	2.9E 3	1.7E 3
	(0)		(3.6 - 18.6)E 2 (6/ 6)		(1.2 - 4.5)E 3 (2/ 2)	(4.5 - 45.4)E 2 (4/ 4)
Pb-214	(10)		6.0E 2	52	2.0E 3	1.2E 3
	(0)		(1.8 - 13.7)E 2 (6/ 6)		(9.0 - 31.7)E 2 (2/ 2)	(3.7 - 31.7)E 2 (4/ 4)
Bi-214	(10)		5.3E 2	52	1.6E 3	9.2E 2
	(0)		(2.5 - 10.9)E 2 (6/ 6)		(7.7 - 23.9)E 2 (2/ 2)	(2.6 - 23.9)E 2 (4/ 4)
Ra-226	(10)		5.3E 2	52	1.6E 3	9.2E 2
	(0)		(2.5 - 10.9)E 2 (6/ 6)		(7.7 - 23.9)E 2 (2/ 2)	(2.6 - 23.9)E 2 (4/ 4)
Ac-228	(10)		7.1E 2	52	2.8E 3	1.6E 3
	(0)		(0.0 - 1.7)E 3 (5/ 6)		(1.2 - 4.3)E 3 (2/ 2)	(2.9 - 43.2)E 2 (4/ 4)
Th-228	(10)		8.1E 2	52	2.9E 3	1.7E 3
	(0)		(3.6 - 18.6)E 2 (6/ 6)		(1.2 - 4.5)E 3 (2/ 2)	(4.5 - 45.4)E 2 (4/ 4)
Th-230	(10)		5.3E 2	52	1.6E 3	9.2E 2
	(0)		(2.5 - 10.9)E 2 (6/ 6)		(7.7 - 23.9)E 2 (2/ 2)	(2.6 - 23.9)E 2 (4/ 4)

* Non-Routine refers to those radionuclides that exceeded the Reporting Levels in ODCM Table A.9.1-3.
** The fraction of detectable measurements (i.e., > MDC with no uncertain identification) is shown in parentheses.

3.7 Fish

Semiannual fish (FH) and invertebrate samples are required by the ODCM REMP from two locations. Quarterly collections are attempted to ensure the sampling requirements are met. This section presents the results for fish sampling only. Invertebrate results may be found in Sections 3.8 and 3.9, entitled Lobsters and Shellfish, respectively.

During the year, a total of 10 fish samples were collected. The fish species available from Station FH-03 (indicator station) and Station FH-53 (control station) were dominated by Winter Flounder which are bottom dwelling species. One sample of Cunner fish was also collected from sample location FH-06 (Hampton Bay in the area of the plant's discharge).

A gamma analysis was performed on the edible portion of each sample collected. In 2020, the only radionuclides detected were naturally-occurring K-40 (all samples). Table 3.7-1 summarizes the results for radionuclides in fish. Similar to past years, no plant-related radionuclides were detected in any samples. As a result, no increasing or decreasing trends were observed. Subsequently, there is no dose to the public or impact to the environment through this pathway due to plant operations. This is consistent with previous years of plant operations, as well as the pre-operational program.

In addition to the required program for fish as defined in the ODCM, sampling was attempted to collect a local fish species (cunner fish) that resides in the upper regions of the water column using an alternate collection method from that used for the more prevalent bottom species (flounder). For 2020, one Cunner sample was collected from Hampton Bay. The results are listed in Attachment 1 as laboratory number 513410003 (05/27/2020). No plant radionuclides were detected in the Cunner fish samples, with only naturally-occurring K-40 being found.

The REMP Summary Table 3.7-1 also lists the range of analysis results by radionuclide for Indicator and Control Stations for all fish environmental media. Attachment 1 to this report lists the individual analysis results for each measurement of fish under the Sample Type code FH.

Any sample collection and analysis deviations from the ODCM required program, or reportable concentrations that may have occurred during the year are described in Section 5.

Table 3.7-1

Radiological Environmental Monitoring Program Summary
Seabrook Nuclear Power Station, Seabrook, NH
(January - December 2020)

MEDIUM: Fish (FH) UNITS: pCi/kg

Radionuclides (No. Analyses) (Non-Routine*)		Required LLD	Indicator Stations Mean Range (No. Detected**)	Station With Highest Mean Station	 Mean Range (No. Detected**)	Control Stations Mean Range (No. Detected**)
Be-7	(10)		7.8E 0	03	8.5E 0	-1.1E 1
	(0)		(-9.9 - 32.1)E 0 (0/ 6)		(-9.9 - 32.1)E 0 (0/ 5)	(-2.6 - 0.7)E 1 (0/ 4)
K-40	(10)		3.2E 3	06	3.3E 3	3.2E 3
	(0)		(2.7 - 3.5)E 3 (6/ 6)		(1/ 1)	(2.6 - 3.5)E 3 (4/ 4)
Cr-51	(10)		-1.1E 0	53	1.1E 1	1.1E 1
	(0)		(-3.7 - 4.6)E 1 (0/ 6)		(-2.5 - 3.4)E 1 (0/ 4)	(-2.5 - 3.4)E 1 (0/ 4)
Mn-54	(10)	130	1.9E 0	06	2.1E 0	1.7E -1
	(0)		(-2.0 - 53.6)E -1 (0/ 6)		(0/ 1)	(-3.2 - 5.3)E 0 (0/ 4)
Co-57	(10)		-3.6E -1	53	1.8E -1	1.8E -1
	(0)		(-2.2 - 2.8)E 0 (0/ 6)		(-1.2 - 1.2)E 0 (0/ 4)	(-1.2 - 1.2)E 0 (0/ 4)
Co-58	(10)	130	-3.2E -1	53	9.7E -1	9.7E -1
	(0)		(-3.4 - 4.2)E 0 (0/ 6)		(-2.4 - 7.2)E 0 (0/ 4)	(-2.4 - 7.2)E 0 (0/ 4)
Fe-59	(10)	260	9.2E -1	06	8.2E 0	2.2E 0
	(0)		(-7.3 - 8.2)E 0 (0/ 6)		(0/ 1)	(-1.3 - 6.5)E 0 (0/ 4)
Co-60	(10)	130	2.2E 0	06	2.4E 0	7.4E -1
	(0)		(-4.9 - 63.8)E -1 (0/ 6)		(0/ 1)	(-3.0 - 4.5)E 0 (0/ 4)
Zn-65	(10)	260	1.7E 0	06	4.3E 0	3.3E 0
	(0)		(-6.6 - 4.3)E 0 (0/ 6)		(0/ 1)	(1.3 - 6.1)E 0 (0/ 4)
Se-75	(10)		-9.4E -1	06	3.9E 0	-1.8E -2
	(0)		(-4.9 - 3.9)E 0 (0/ 6)		(0/ 1)	(-2.0 - 1.3)E 0 (0/ 4)
Nb-95	(10)		-1.6E 0	53	2.1E 0	2.1E 0
	(0)		(-4.5 - 0.5)E 0 (0/ 6)		(9.1 - 49.6)E -1 (0/ 4)	(9.1 - 49.6)E -1 (0/ 4)
Zr-95	(10)		-4.0E 0	53	2.0E 0	2.0E 0
	(0)		(-8.5 - 3.0)E 0 (0/ 6)		(-4.4 - 5.7)E 0 (0/ 4)	(-4.4 - 5.7)E 0 (0/ 4)
Ru-103	(10)		-6.4E -1	06	1.2E 0	3.7E -1
	(0)		(-2.6 - 1.8)E 0 (0/ 6)		(0/ 1)	(-8.9 - 12.1)E -1 (0/ 4)

* Non-Routine refers to those radionuclides that exceeded the Reporting Levels in ODCM Table A.9.1-3.
** The fraction of detectable measurements (i.e., > MDC with no uncertain identification) is shown in parentheses.

Table 3.7-1 (Continued)
Radiological Environmental Monitoring Program Summary
Seabrook Nuclear Power Station, Seabrook, NH
(January - December 2020)

MEDIUM: Fish (FH) UNITS: pCi/kg

Radionuclides (No. Analyses) (Non-Routine*)		Required LLD	Indicator Stations Mean Range (No. Detected**)	Station With Highest Mean Station	 Mean Range (No. Detected**)	Control Stations Mean Range (No. Detected**)
Ru-106	(10)		-5.9E -1	06	4.0E 1	-4.2E 0
	(0)		(-4.1 - 4.0)E 1			(-1.4 - 1.1)E 1
			(0/ 6)		(0/ 1)	(0/ 4)
Ag-108m	(10)		2.5E 0	03	2.5E 0	2.0E -1
	(0)		(-7.7 - 7990.0)E -3		(-7.7 - 7990.0)E -3	(-2.9 - 3.1)E 0
			(0/ 6)		(0/ 5)	(0/ 4)
Ag-110m	(10)		-1.5E 0	53	-4.9E -1	-4.9E -1
	(0)		(-5.6 - 2.3)E 0		(-2.0 - 2.5)E 0	(-2.0 - 2.5)E 0
			(0/ 6)		(0/ 4)	(0/ 4)
Sb-124	(10)		1.5E -1	06	3.6E 0	-3.8E 0
	(0)		(-5.2 - 5.0)E 0			(-2.2 - 0.4)E 1
			(0/ 6)		(0/ 1)	(0/ 4)
Sb-125	(10)		2.5E 0	03	3.1E 0	1.9E 0
	(0)		(-2.6 - 9.9)E 0		(-2.6 - 9.9)E 0	(-1.1 - 10.0)E 0
			(0/ 6)		(0/ 5)	(0/ 4)
I-131	(10)		-2.3E 0	53	3.4E 0	3.4E 0
	(0)		(-1.9 - 1.6)E 1		(4.4 - 53.8)E -1	(4.4 - 53.8)E -1
			(0/ 6)		(0/ 4)	(0/ 4)
Cs-134	(10)	130	3.8E -1	06	5.9E 0	-4.1E -1
	(0)		(-2.9 - 5.9)E 0			(-4.8 - 2.1)E 0
			(0/ 6)		(0/ 1)	(0/ 4)
Cs-137	(10)	150	1.3E 0	06	2.2E 0	7.9E -1
	(0)		(-2.3 - 5.1)E 0			(-3.6 - 6.7)E 0
			(0/ 6)		(0/ 1)	(0/ 4)
Ba-140	(10)		1.1E 0	06	1.7E 1	6.5E 0
	(0)		(-1.9 - 1.8)E 1			(-3.6 - 24.2)E 0
			(0/ 6)		(0/ 1)	(0/ 4)
La-140	(10)		4.5E -2	03	9.6E -1	-3.5E -1
	(0)		(-5.5 - 10.2)E 0		(-5.5 - 10.2)E 0	(-3.6 - 1.4)E 0
			(0/ 6)		(0/ 5)	(0/ 4)
Ce-141	(10)		-1.1E 0	06	6.9E -1	3.2E -1
	(0)		(-3.0 - 0.8)E 0			(-2.8 - 2.7)E 0
			(0/ 6)		(0/ 1)	(0/ 4)
Ce-144	(10)		-1.6E 0	53	6.0E 0	6.0E 0
	(0)		(-2.4 - 0.9)E 1		(2.9 - 9.6)E 0	(2.9 - 9.6)E 0
			(0/ 6)		(0/ 4)	(0/ 4)
Tl-208	(10)		1.7E -1	03	4.7E -1	-1.7E 0
	(0)		(-2.8 - 1.9)E 0		(-2.8 - 1.9)E 0	(-6.6 - 4.2)E 0
			(0/ 6)		(0/ 5)	(0/ 4)

* Non-Routine refers to those radionuclides that exceeded the Reporting Levels in ODCM Table A.9.1-3.
** The fraction of detectable measurements (i.e., > MDC with no uncertain identification) is shown in parentheses.

Table 3.7-1 (Continued)
Radiological Environmental Monitoring Program Summary
Seabrook Nuclear Power Station, Seabrook, NH
(January - December 2020)

MEDIUM: Fish (FH) UNITS: pCi/kg

Radionuclides (No. Analyses) (Non-Routine*)	Required LLD	Indicator Stations Mean Range (No. Detected**)	Station With Highest Mean Station	Station With Highest Mean Mean Range (No. Detected**)	Control Stations Mean Range (No. Detected**)
Pb-212 (10) (0)		1.7E 0 (-3.5 - 10.4)E 0 (0/ 6)	03	2.2E 0 (-3.5 - 10.4)E 0 (0/ 5)	-2.6E 0 (-1.8 - 1.0)E 1 (0/ 4)
Pb-214 (10) (0)		-3.7E -2 (-1.1 - 1.1)E 1 (0/ 6)	06	4.7E 0 (0/ 1)	3.6E 0 (-4.2 - 83.7)E -1 (0/ 4)
Bi-214 (10) (0)		1.6E 0 (-6.6 - 5.8)E 0 (0/ 6)	53	6.0E 0 (-2.5 - 29.3)E 0 (0/ 4)	6.0E 0 (-2.5 - 29.3)E 0 (0/ 4)
Ra-226 (10) (0)		1.6E 0 (-6.6 - 5.8)E 0 (0/ 6)	53	6.0E 0 (-2.5 - 29.3)E 0 (0/ 4)	6.0E 0 (-2.5 - 29.3)E 0 (0/ 4)
Ac-228 (10) (0)		-4.8E 0 (-1.2 - 0.9)E 1 (0/ 6)	06	9.5E 0 (0/ 1)	-1.8E 0 (-2.0 - 1.8)E 1 (0/ 4)
Th-228 (10) (0)		1.7E 0 (-3.5 - 10.4)E 0 (0/ 6)	03	2.2E 0 (-3.5 - 10.4)E 0 (0/ 5)	-2.6E 0 (-1.8 - 1.0)E 1 (0/ 4)
Th-230 (10) (0)		1.6E 0 (-6.6 - 5.8)E 0 (0/ 6)	53	6.0E 0 (-2.5 - 29.3)E 0 (0/ 4)	6.0E 0 (-2.5 - 29.3)E 0 (0/ 4)

* Non-Routine refers to those radionuclides that exceeded the Reporting Levels in ODCM Table A.9.1-3.
** The fraction of detectable measurements (i.e., > MDC with no uncertain identification) is shown in parentheses.

3.8 Lobsters

Semiannual fish and invertebrate samples were required from two locations. This section provides the results for one type of invertebrate – *Homarus americanus (*American lobsters) which is an important commercial food species from local waters. Lobsters (HA) were collected from an indicator location near the discharge (HA-04) and from a control location (HA-54) within Ipswich Bay. A total of four samples were collected for the year. Fish and shellfish results may be found in Sections 3.7 and 3.9, respectively.

A gamma analysis was performed on each sample. The only radionuclides detected in lobster samples in 2020 were naturally-occurring K-40 (all samples) and Ac-228 (one sample). Similar to past years, no plant-related radionuclides were detected in any sample. Therefore, no increasing or decreasing trends were observed. Consequently, there is no dose to the public or impact to the environment from this pathway due to plant operations. This is consistent with previous years as well as the pre-operational program.

The REMP Summary Table 3.8-1 also lists the range of analysis results by radionuclide for Indicator and Control Stations for all lobster samples. Attachment 1 to this report lists the individual analysis results for each measurement of lobsters under the Sample Type code HA.

Any sample collection and analysis deviations from the ODCM required program, or reportable concentrations that may have occurred during the year are described in Section 5.

Table 3.8-1

Radiological Environmental Monitoring Program Summary
Seabrook Nuclear Power Station, Seabrook, NH
(January - December 2020)

MEDIUM: American Lobster (HA) UNITS: pCi/kg

Radionuclides (No. Analyses) (Non-Routine*)		Required LLD	Indicator Stations Mean Range (No. Detected**)	Station With Highest Mean Station	Station With Highest Mean Mean Range (No. Detected**)	Control Stations Mean Range (No. Detected**)
Be-7	(4)		-2.1E 1	54	2.9E 1	2.9E 1
	(0)		(-4.2 - 0.0)E 1 (0/ 2)		(2.1 - 3.7)E 1 (0/ 2)	(2.1 - 3.7)E 1 (0/ 2)
K-40	(4)		2.1E 3	54	2.2E 3	2.2E 3
	(0)		(2.0 - 2.3)E 3 (2/ 2)		(1.9 - 2.6)E 3 (2/ 2)	(1.9 - 2.6)E 3 (2/ 2)
Cr-51	(4)		-5.8E 0	54	6.5E -1	6.5E -1
	(0)		(-1.5 - 0.4)E 1 (0/ 2)		(-1.2 - 1.3)E 1 (0/ 2)	(-1.2 - 1.3)E 1 (0/ 2)
Mn-54	(4)	130	-1.4E -1	54	3.2E 0	3.2E 0
	(0)		(-3.7 - 0.8)E -1 (0/ 2)		(7.5 - 55.7)E -1 (0/ 2)	(7.5 - 55.7)E -1 (0/ 2)
Co-57	(4)		1.1E 0	04	1.1E 0	-6.6E -1
	(0)		(1.0 - 1.2)E 0 (0/ 2)		(1.0 - 1.2)E 0 (0/ 2)	(-1.0 - -0.3)E 0 (0/ 2)
Co-58	(4)	130	2.6E 0	04	2.6E 0	1.4E 0
	(0)		(9.4 - 42.7)E -1 (0/ 2)		(9.4 - 42.7)E -1 (0/ 2)	(-3.0 - 5.8)E 0 (0/ 2)
Fe-59	(4)	260	-4.9E 0	04	-4.9E 0	-5.2E 0
	(0)		(-1.0 - 0.1)E 1 (0/ 2)		(-1.0 - 0.1)E 1 (0/ 2)	(-9.9 - -0.4)E 0 (0/ 2)
Co-60	(4)	130	1.0E 0	04	1.0E 0	-1.6E 0
	(0)		(-3.8 - 24.1)E -1 (0/ 2)		(-3.8 - 24.1)E -1 (0/ 2)	(-2.6 - -0.7)E 0 (0/ 2)
Zn-65	(4)	260	3.8E 0	04	3.8E 0	-3.8E 0
	(0)		(1.0 - 6.6)E 0 (0/ 2)		(1.0 - 6.6)E 0 (0/ 2)	(-5.9 - -1.7)E 0 (0/ 2)
Se-75	(4)		-1.5E 0	54	-5.7E -1	-5.7E -1
	(0)		(-2.2 - -0.8)E 0 (0/ 2)		(-7.7 - -3.7)E -1 (0/ 2)	(-7.7 - -3.7)E -1 (0/ 2)
Nb-95	(4)		5.0E -4	04	5.0E -4	-7.5E -1
	(0)		(-3.2 - 3.2)E -1 (0/ 2)		(-3.2 - 3.2)E -1 (0/ 2)	(-6.4 - 4.9)E 0 (0/ 2)
Zr-95	(4)		4.1E 0	04	4.1E 0	-5.1E 0
	(0)		(1.2 - 7.1)E 0 (0/ 2)		(1.2 - 7.1)E 0 (0/ 2)	(-8.7 - -1.6)E 0 (0/ 2)
Ru-103	(4)		2.6E 0	54	2.8E 0	2.8E 0
	(0)		(2.0 - 49.0)E -1 (0/ 2)		(2.7 - 2.8)E 0 (0/ 2)	(2.7 - 2.8)E 0 (0/ 2)

* Non-Routine refers to those radionuclides that exceeded the Reporting Levels in ODCM Table A.9.1-3.
** The fraction of detectable measurements (i.e., > MDC with no uncertain identification) is shown in parentheses.

Table 3.8-1 (Continued)
Radiological Environmental Monitoring Program Summary
Seabrook Nuclear Power Station, Seabrook, NH
(January - December 2020)

MEDIUM: American Lobster (HA) UNITS: pCi/kg

Radionuclides (No. Analyses) (Non-Routine*)		Required LLD	Indicator Stations Mean Range (No. Detected**)	Station With Highest Mean Station	Station With Highest Mean Mean Range (No. Detected**)	Control Stations Mean Range (No. Detected**)
Ru-106	(4)		-5.3E 0	54	1.9E 1	1.9E 1
	(0)		(-2.1 - 1.0)E 1 (0/ 2)		(1.9 - 1.9)E 1 (0/ 2)	(1.9 - 1.9)E 1 (0/ 2)
Ag-108m	(4)		-1.2E 0	54	3.5E -1	3.5E -1
	(0)		(-1.8 - -0.6)E 0 (0/ 2)		(-1.6 - 2.2)E 0 (0/ 2)	(-1.6 - 2.2)E 0 (0/ 2)
Ag-110m	(4)		2.4E -1	04	2.4E -1	2.3E -1
	(0)		(-1.8 - 2.3)E 0 (0/ 2)		(-1.8 - 2.3)E 0 (0/ 2)	(-1.9 - 2.4)E 0 (0/ 2)
Sb-124	(4)		2.1E 0	04	2.1E 0	-2.4E 0
	(0)		(-3.9 - 8.0)E 0 (0/ 2)		(-3.9 - 8.0)E 0 (0/ 2)	(-9.2 - 4.3)E 0 (0/ 2)
Sb-125	(4)		3.2E 0	04	3.2E 0	-5.7E 0
	(0)		(2.7 - 3.8)E 0 (0/ 2)		(2.7 - 3.8)E 0 (0/ 2)	(-6.0 - -5.4)E 0 (0/ 2)
I-131	(4)		-1.3E 0	04	-1.3E 0	-2.3E 0
	(0)		(-4.9 - 2.3)E 0 (0/ 2)		(-4.9 - 2.3)E 0 (0/ 2)	(-2.6 - -2.1)E 0 (0/ 2)
Cs-134	(4)	130	2.2E 0	54	2.9E 0	2.9E 0
	(0)		(-2.1 - 6.5)E 0 (0/ 2)		(7.6 - 50.4)E -1 (0/ 2)	(7.6 - 50.4)E -1 (0/ 2)
Cs-137	(4)	150	2.3E 0	04	2.3E 0	1.2E 0
	(0)		(1.8 - 2.8)E 0 (0/ 2)		(1.8 - 2.8)E 0 (0/ 2)	(9.7 - 13.8)E -1 (0/ 2)
Ba-140	(4)		1.9E 1	04	1.9E 1	-2.2E 0
	(0)		(0.0 - 3.7)E 1 (0/ 2)		(0.0 - 3.7)E 1 (0/ 2)	(-1.9 - 1.5)E 1 (0/ 2)
La-140	(4)		-3.3E 0	54	1.0E 0	1.0E 0
	(0)		(-7.7 - 1.1)E 0 (0/ 2)		(-2.3 - 4.3)E 0 (0/ 2)	(-2.3 - 4.3)E 0 (0/ 2)
Ce-141	(4)		-3.2E 0	54	1.0E 0	1.0E 0
	(0)		(-8.7 - 2.3)E 0 (0/ 2)		(-3.1 - 5.1)E 0 (0/ 2)	(-3.1 - 5.1)E 0 (0/ 2)
Ce-144	(4)		-9.2E -1	04	-9.2E -1	-6.0E 0
	(0)		(-5.1 - 3.3)E 0 (0/ 2)		(-5.1 - 3.3)E 0 (0/ 2)	(-1.2 - 0.0)E 1 (0/ 2)
Tl-208	(4)		-1.7E 0	54	1.1E 1	1.1E 1
	(0)		(-3.6 - 0.2)E 0 (0/ 2)		(0.0 - 2.1)E 1 (0/ 2)	(0.0 - 2.1)E 1 (0/ 2)

* Non-Routine refers to those radionuclides that exceeded the Reporting Levels in ODCM Table A.9.1-3.
** The fraction of detectable measurements (i.e., > MDC with no uncertain identification) is shown in parentheses.

Table 3.8-1 (Continued)
Radiological Environmental Monitoring Program Summary
Seabrook Nuclear Power Station, Seabrook, NH
(January - December 2020)

MEDIUM: American Lobster (HA) UNITS: pCi/kg

Radionuclides (No. Analyses) (Non-Routine*)		Required LLD	Indicator Stations: Mean Range (No. Detected**)	Station With Highest Mean: Station	Station With Highest Mean: Mean Range (No. Detected**)	Control Stations: Mean Range (No. Detected**)
Pb-212	(4)		-5.7E 0	54	1.1E 0	1.1E 0
	(0)		(-1.4 - 0.2)E 1		(-9.5 - 32.5)E -1	(-9.5 - 32.5)E -1
			(0/ 2)		(0/ 2)	(0/ 2)
Pb-214	(4)		7.7E 0	04	7.7E 0	-4.3E 0
	(0)		(3.9 - 11.4)E 0		(3.9 - 11.4)E 0	(-9.2 - 0.6)E 0
			(0/ 2)		(0/ 2)	(0/ 2)
Bi-214	(4)		-2.5E 0	54	4.1E 0	4.1E 0
	(0)		(-5.0 - 0.0)E 0		(-3.2 - 11.5)E 0	(-3.2 - 11.5)E 0
			(0/ 2)		(0/ 2)	(0/ 2)
Ra-226	(4)		-2.5E 0	54	4.1E 0	4.1E 0
	(0)		(-5.0 - 0.0)E 0		(-3.2 - 11.5)E 0	(-3.2 - 11.5)E 0
			(0/ 2)		(0/ 2)	(0/ 2)
Ac-228	(4)		7.3E 0	54	4.8E 1	4.8E 1
	(0)		(-5.0 - 19.7)E 0		(1.0 - 8.7)E 1	(1.0 - 8.7)E 1
			(0/ 2)		(1/ 2)	(1/ 2)
Th-228	(4)		-5.7E 0	54	1.1E 0	1.1E 0
	(0)		(-1.4 - 0.2)E 1		(-9.5 - 32.5)E -1	(-9.5 - 32.5)E -1
			(0/ 2)		(0/ 2)	(0/ 2)
Th-230	(4)		-2.5E 0	54	4.1E 0	4.1E 0
	(0)		(-5.0 - 0.0)E 0		(-3.2 - 11.5)E 0	(-3.2 - 11.5)E 0
			(0/ 2)		(0/ 2)	(0/ 2)

* Non-Routine refers to those radionuclides that exceeded the Reporting Levels in ODCM Table A.9.1-3.
** The fraction of detectable measurements (i.e., > MDC with no uncertain identification) is shown in parentheses.

3.9 Shellfish

Semiannual fish and invertebrate samples are required by the ODCM from two locations. This section provides the results for shellfish (MU) samples only. In 2020, four locations (two indicators and two controls) were included in the sample collections. Fish and lobster results may be found in the Sections 3.7 and 3.8, entitled Fish and Lobsters, respectively.

During the year there were two species of mussels (MU) harvested for analysis. *Modiolus (horse mussels)* was collected by divers from near the discharge outfall (indicator station MU-06) and from Ipswich Bay (control MU-56). *Mytilus* (blue mussels) were collected from the intertidal areas of Hampton Harbor (indicator MU-09) and Plum Island (control MU-59). A total of eight samples were collected in 2020 and analyzed for radioactivity in the edible portion or meat of the shellfish.

The only radionuclides detected in edible shellfish body samples in 2020 were naturally-occurring K-40 (all 8 samples), Be-7 (three of 8 samples), Pb-212 (one of 8 samples), Pb-214 (one of 8 samples), and Th-228 (one of 8 samples). Similar to past years, no plant-related gamma emitting radionuclides were detected in any sample. Therefore, no increasing or decreasing trends were observed. Consequently, there is no dose to the public or impact to the environment from this pathway due to plant operations. This is consistent with the pre-operational program and with previous years of plant operations.

Additional analyses were conducted on the May and November shellfish collections from both indicator (MS-06) and control (MS-56) locations. Mussel shells (MS) were analyzed for Strontium 89 and 90 (four samples) to see if there was any indication of strontium uptake into the shell. For 2020, no Sr-89/90 was detected in any sample. No shell analyses are required by the REMP as defined in the ODCM.

The REMP Summary Table 3.9-1 (mussel bodies) and Table 3.9-2 (mussel shells) list the range of analysis results by radionuclide for Indicator and Control Stations for all shellfish samples. Attachment 1 to this report lists the individual analysis results for each measurement of shellfish under the Sample Type code MU for the edible portions and MS for shells only.

Any sample collection and analysis deviations from the ODCM required program, or reportable concentrations that may have occurred during the year, are described in Section 5.

Table 3.9-1
Radiological Environmental Monitoring Program Summary
Seabrook Nuclear Power Station, Seabrook, NH
(January - December 2020)

MEDIUM: Mussel Body (MU) UNITS: pCi/kg

Radionuclides (No. Analyses) (Non-Routine*)		Required LLD	Indicator Stations Mean Range (No. Detected**)	Station With Highest Mean Station	 Mean Range (No. Detected**)	Control Stations Mean Range (No. Detected**)
Be-7	(8)		3.2E 1	59	2.0E 2	1.3E 2
	(0)		(1.7 - 4.4)E 1 (0/ 4)		(7.0 - 32.3)E 1 (2/ 2)	(3.8 - 32.3)E 1 (3/ 4)
K-40	(8)		1.4E 3	09	1.5E 3	1.3E 3
	(0)		(1.1 - 1.6)E 3 (4/ 4)		(1.4 - 1.6)E 3 (2/ 2)	(1.1 - 1.5)E 3 (4/ 4)
Cr-51	(8)		-9.4E 0	56	9.7E 0	-6.5E 0
	(0)		(-1.6 - 0.2)E 1 (0/ 4)		(8.6 - 10.9)E 0 (0/ 2)	(-4.0 - 1.1)E 1 (0/ 4)
Mn-54	(8)	130	1.6E -1	56	1.0E 0	3.8E -1
	(0)		(-1.2 - 2.6)E 0 (0/ 4)		(6.8 - 13.5)E -1 (0/ 2)	(-1.1 - 1.4)E 0 (0/ 4)
Co-57	(8)		1.3E 0	59	1.8E 0	1.4E 0
	(0)		(-5.0 - 25.5)E -1 (0/ 4)		(6.2 - 29.5)E -1 (0/ 2)	(-1.1 - 29.5)E -1 (0/ 4)
Co-58	(8)	130	-9.7E -1	59	9.3E -1	5.6E -1
	(0)		(-3.2 - 1.7)E 0 (0/ 4)		(7.9 - 10.7)E -1 (0/ 2)	(-2.9 - 3.3)E 0 (0/ 4)
Fe-59	(8)	260	1.5E 0	06	2.1E 0	-1.8E 0
	(0)		(-5.4 - 7.4)E 0 (0/ 4)		(-1.1 - 5.3)E 0 (0/ 2)	(-2.7 - -0.2)E 0 (0/ 4)
Co-60	(8)	130	7.9E -2	59	4.8E 0	3.7E 0
	(0)		(-1.3 - 1.3)E 0 (0/ 4)		(-8.9 - 105.0)E -1 (0/ 2)	(-8.9 - 105.0)E -1 (0/ 4)
Zn-65	(8)	260	3.1E 0	09	9.2E 0	-3.6E 0
	(0)		(-6.0 - 15.7)E 0 (0/ 4)		(2.6 - 15.7)E 0 (0/ 2)	(-9.0 - 2.0)E 0 (0/ 4)
Se-75	(8)		2.1E -1	56	1.9E 0	-4.0E -1
	(0)		(-1.8 - 3.3)E 0 (0/ 4)		(8.3 - 30.6)E -1 (0/ 2)	(-1.1 - 0.6)E 1 (0/ 4)
Nb-95	(8)		2.9E 0	09	3.7E 0	-6.9E -1
	(0)		(-4.5 - 422.0)E -2 (0/ 4)		(3.5 - 3.9)E 0 (0/ 2)	(-3.0 - 2.5)E 0 (0/ 4)
Zr-95	(8)		1.7E 0	09	4.0E 0	-2.0E 0
	(0)		(-9.8 - 80.5)E -1 (0/ 4)		(-1.4 - 80.5)E -1 (0/ 2)	(-6.1 - 4.7)E 0 (0/ 4)
Ru-103	(8)		-3.6E -1	56	5.5E -2	-1.1E 0
	(0)		(-1.4 - 0.6)E 0 (0/ 4)		(-3.2 - 3.3)E 0 (0/ 2)	(-4.5 - 3.3)E 0 (0/ 4)

* Non-Routine refers to those radionuclides that exceeded the Reporting Levels in ODCM Table A.9.1-3.
** The fraction of detectable measurements (i.e., > MDC with no uncertain identification) is shown in parentheses.

Table 3.9-1 (Continued)
Radiological Environmental Monitoring Program Summary
Seabrook Nuclear Power Station, Seabrook, NH
(January - December 2020)

MEDIUM: Mussel Body (MU) UNITS: pCi/kg

Radionuclides (No. Analyses) (Non-Routine*)		Required LLD	Indicator Stations Mean Range (No. Detected**)	Station With Highest Mean Station	Station With Highest Mean Mean Range (No. Detected**)	Control Stations Mean Range (No. Detected**)
Ru-106	(8)		1.1E 1	59	1.2E 1	6.1E 0
	(0)		(8.8 - 12.9)E 0 (0/ 4)		(1.6 - 238.0)E -1 (0/ 2)	(-7.8 - 23.8)E 0 (0/ 4)
Ag-108m	(8)		1.1E 0	06	1.5E 0	7.1E -1
	(0)		(-4.2 - 18.3)E -1 (0/ 4)		(1.2 - 1.8)E 0 (0/ 2)	(-2.2 - 15.4)E -1 (0/ 4)
Ag-110m	(8)		-3.1E -1	09	1.3E -1	-1.8E 0
	(0)		(-1.2 - 0.5)E 0 (0/ 4)		(-2.3 - 4.9)E -1 (0/ 2)	(-4.1 - 0.1)E 0 (0/ 4)
Sb-124	(8)		2.0E 0	59	7.9E 0	5.0E 0
	(0)		(1.1 - 4.8)E 0 (0/ 4)		(4.9 - 10.9)E 0 (0/ 2)	(-1.1 - 10.9)E 0 (0/ 4)
Sb-125	(8)		-2.3E 0	56	3.4E -1	-2.7E 0
	(0)		(-7.3 - 7.7)E 0 (0/ 4)		(-2.0 - 2.7)E 0 (0/ 2)	(-1.1 - 0.3)E 1 (0/ 4)
I-131	(8)		-2.4E 0	59	4.0E 0	3.1E 0
	(0)		(-5.2 - -1.0)E 0 (0/ 4)		(1.6 - 6.4)E 0 (0/ 2)	(-5.0 - 9.3)E 0 (0/ 4)
Cs-134	(8)	130	5.7E -1	56	5.7E 0	4.9E 0
	(0)		(-4.7 - 34.6)E -1 (0/ 4)		(4.0 - 7.4)E 0 (0/ 2)	(-1.8 - 10.2)E 0 (0/ 4)
Cs-137	(8)	150	-2.2E 0	59	3.6E 0	9.2E -1
	(0)		(-9.1 - 2.5)E 0 (0/ 4)		(4.6 - 67.6)E -1 (0/ 2)	(-2.8 - 6.8)E 0 (0/ 4)
Ba-140	(8)		3.9E 0	56	1.7E 1	9.6E 0
	(0)		(-1.2 - 1.4)E 1 (0/ 4)		(1.1 - 2.3)E 1 (0/ 2)	(-5.6 - 23.4)E 0 (0/ 4)
La-140	(8)		-1.0E 0	09	1.3E 0	-8.0E 0
	(0)		(-1.1 - 0.9)E 1 (0/ 4)		(-5.9 - 8.6)E 0 (0/ 2)	(-9.7 - -6.1)E 0 (0/ 4)
Ce-141	(8)		-4.0E 0	56	-4.7E -1	-8.3E -1
	(0)		(-1.4 - 0.4)E 1 (0/ 4)		(-8.2 - 7.3)E 0 (0/ 2)	(-8.2 - 7.3)E 0 (0/ 4)
Ce-144	(8)		2.8E 0	09	8.8E 0	-5.7E 0
	(0)		(-1.1 - 0.9)E 1 (0/ 4)		(8.7 - 8.9)E 0 (0/ 2)	(-1.3 - -0.2)E 1 (0/ 4)
Tl-208	(8)		3.7E 0	09	5.2E 0	-1.4E 0
	(0)		(1.7 - 6.7)E 0 (0/ 4)		(3.8 - 6.7)E 0 (0/ 2)	(-9.3 - 4.6)E 0 (0/ 4)

* Non-Routine refers to those radionuclides that exceeded the Reporting Levels in ODCM Table A.9.1-3.
** The fraction of detectable measurements (i.e., > MDC with no uncertain identification) is shown in parentheses.

Table 3.9-1 (Continued)
Radiological Environmental Monitoring Program Summary
Seabrook Nuclear Power Station, Seabrook, NH
(January - December 2020)

MEDIUM: Mussel Body (MU) UNITS: pCi/kg

Radionuclides (No. Analyses) (Non-Routine*)		Required LLD	Indicator Stations Mean Range (No. Detected**)	Station With Highest Mean Station	 Mean Range (No. Detected**)	Control Stations Mean Range (No. Detected**)
Pb-212	(8)		4.8E 0	09	1.1E 1	3.1E 0
	(0)		(-5.7 - 21.1)E 0 (1/ 4)		(8.7 - 211.0)E -1 (1/ 2)	(0.0 - 8.2)E 0 (0/ 4)
Pb-214	(8)		5.0E 0	56	1.2E 1	5.2E 0
	(0)		(-1.9 - 20.1)E 0 (1/ 4)		(1.1 - 1.3)E 1 (0/ 2)	(-8.2 - 12.8)E 0 (0/ 4)
Bi-214	(8)		2.8E 0	59	1.2E 1	7.8E 0
	(0)		(-8.4 - 11.6)E 0 (0/ 4)		(0.0 - 2.4)E 1 (0/ 2)	(-7.2 - 244.0)E -1 (0/ 4)
Ra-226	(8)		2.8E 0	59	1.2E 1	7.8E 0
	(0)		(-8.4 - 11.6)E 0 (0/ 4)		(0.0 - 2.4)E 1 (0/ 2)	(-7.2 - 244.0)E -1 (0/ 4)
Ac-228	(8)		-6.2E 0	56	1.5E 1	-4.7E 0
	(0)		(-4.8 - 1.0)E 1 (0/ 4)		(-5.8 - 36.0)E 0 (0/ 2)	(-3.9 - 3.6)E 1 (0/ 4)
Th-228	(8)		4.8E 0	09	1.1E 1	3.1E 0
	(0)		(-5.7 - 21.1)E 0 (1/ 4)		(8.7 - 211.0)E -1 (1/ 2)	(0.0 - 8.2)E 0 (0/ 4)
Th-230	(8)		2.8E 0	59	1.2E 1	7.8E 0
	(0)		(-8.4 - 11.6)E 0 (0/ 4)		(0.0 - 2.4)E 1 (0/ 2)	(-7.2 - 244.0)E -1 (0/ 4)

* Non-Routine refers to those radionuclides that exceeded the Reporting Levels in ODCM Table A.9.1-3.
** The fraction of detectable measurements (i.e., > MDC with no uncertain identification) is shown in parentheses.

Table 3.9-2
Radiological Environmental Monitoring Program Summary
Seabrook Nuclear Power Station, Seabrook, NH
(January - December 2020)

MEDIUM: Mussel Shell (MS) UNITS: pCi/kg

Radionuclides (No. Analyses) (Non-Routine*)		Required LLD	Indicator Stations: Mean Range (No. Detected**)	Station With Highest Mean: Station	Station With Highest Mean: Mean Range (No. Detected**)	Control Stations: Mean Range (No. Detected**)
Sr-89	**(4)**	300	-6.2E 1	56	-5.2E 1	-5.2E 1
	(0)		(-1.1 - -0.1)E 2 (0/ 2)		(-1.1 - 0.1)E 2 (0/ 2)	(-1.1 - 0.1)E 2 (0/ 2)
Sr-90	**(4)**	300	-8.4E 1	56	2.7E 1	2.7E 1
	(0)		(-1.3 - -0.4)E 2 (0/ 2)		(-1.3 - 6.7)E 1 (0/ 2)	(-1.3 - 6.7)E 1 (0/ 2)

* Non-Routine refers to those radionuclides that exceeded the Reporting Levels in ODCM Table A.9.1-3.
** The fraction of detectable measurements (i.e., > MDC with no uncertain identification) is shown in parentheses.

3.10 Irish Moss

There is no REMP technical requirement defined in the ODCM to collect Irish Moss (algae) samples. As a supplement to the required REMP, semiannual Chondrus (Irish Moss) samples were collected from an indicator area (AL-05) near the plant discharge and a control location (AL-55) within Ipswich Bay. If plant-related radionuclides were re-concentrating in the aquatic environment, an early indication of this might be shown in this type of environmental species. Four routine samples (two indicators and two controls) were collected for the year.

A gamma analysis was performed on each sample. Although not required by Table 5.2-1, the LLDs associated with food products were applied to ensure adequate counting statistics. Naturally-occurring K-40 was detected in two indicator samples, and K-40 and Be-7 were detected in two control samples. For the off-shore indicator station (AL-05), no plant-related radionuclides were detected in any sample. Therefore, no plant-related increasing or decreasing trends were observed. Subsequently, there is no dose or impact to the environment from plant operations. This is consistent with the pre-operational program and previous years of plant operations.

The REMP Summary Table 3.10-1 lists the range of analysis results by radionuclide for Indicator and Control Stations for Irish Moss samples. Attachment 1 lists the individual analysis results for each measurement of Irish moss under the Sample Type code AL.

Any sample collection and analysis deviations from the ODCM defined program, or reportable concentrations that may have occurred during the year, are described in Section 5.

Table 3.10-1

Radiological Environmental Monitoring Program Summary
Seabrook Nuclear Power Station, Seabrook, NH
(January - December 2020)

MEDIUM: Irish Moss (AL) UNITS: pCi/kg

Radionuclides (No. Analyses) (Non-Routine*)		Required LLD	Indicator Stations Mean Range (No. Detected**)	Station With Highest Mean Station	Station With Highest Mean Mean Range (No. Detected**)	Control Stations Mean Range (No. Detected**)
Be-7	(4)		3.0E 1	55	1.9E 2	1.9E 2
	(0)		(0.0 - 6.1)E 1 (0/ 2)		(9.5 - 27.6)E 1 (2/ 2)	(9.5 - 27.6)E 1 (2/ 2)
K-40	(4)		7.6E 3	05	7.6E 3	6.5E 3
	(0)		(7.4 - 7.8)E 3 (2/ 2)		(7.4 - 7.8)E 3 (2/ 2)	(4.9 - 8.0)E 3 (2/ 2)
Cr-51	(4)		1.6E 1	05	1.6E 1	-3.9E 1
	(0)		(0.0 - 3.3)E 1 (0/ 2)		(0.0 - 3.3)E 1 (0/ 2)	(-4.0 - -3.7)E 1 (0/ 2)
Mn-54	(4)		-3.4E 0	55	1.1E 0	1.1E 0
	(0)		(-3.9 - -3.0)E 0 (0/ 2)		(-4.6 - 6.7)E 0 (0/ 2)	(-4.6 - 6.7)E 0 (0/ 2)
Co-57	(4)		2.4E 0	05	2.4E 0	1.9E 0
	(0)		(8.2 - 39.6)E -1 (0/ 2)		(8.2 - 39.6)E -1 (0/ 2)	(-7.1 - 45.7)E -1 (0/ 2)
Co-58	(4)		-2.1E 0	05	-2.1E 0	-6.2E 0
	(0)		(-8.5 - 4.3)E 0 (0/ 2)		(-8.5 - 4.3)E 0 (0/ 2)	(-7.7 - -4.8)E 0 (0/ 2)
Fe-59	(4)		-4.8E 0	55	7.2E 0	7.2E 0
	(0)		(-6.2 - -3.4)E 0 (0/ 2)		(5.9 - 8.4)E 0 (0/ 2)	(5.9 - 8.4)E 0 (0/ 2)
Co-60	(4)		-2.5E 0	55	1.4E 0	1.4E 0
	(0)		(-7.2 - 2.1)E 0 (0/ 2)		(-2.3 - 30.5)E -1 (0/ 2)	(-2.3 - 30.5)E -1 (0/ 2)
Zn-65	(4)		1.4E 1	05	1.4E 1	4.6E 0
	(0)		(1.9 - 25.9)E 0 (0/ 2)		(1.9 - 25.9)E 0 (0/ 2)	(4.4 - 4.9)E 0 (0/ 2)
Se-75	(4)		-5.7E -1	55	4.8E 0	4.8E 0
	(0)		(-2.4 - 1.3)E 0 (0/ 2)		(1.7 - 7.9)E 0 (0/ 2)	(1.7 - 7.9)E 0 (0/ 2)
Nb-95	(4)		5.4E 0	05	5.4E 0	7.5E -1
	(0)		(-4.8 - 15.5)E 0 (0/ 2)		(-4.8 - 15.5)E 0 (0/ 2)	(-1.5 - 3.0)E 0 (0/ 2)
Zr-95	(4)		-4.2E 0	55	-1.1E 0	-1.1E 0
	(0)		(-7.8 - -0.5)E 0 (0/ 2)		(-1.4 - -0.9)E 0 (0/ 2)	(-1.4 - -0.9)E 0 (0/ 2)
Ru-103	(4)		-1.5E 0	55	-5.6E -1	-5.6E -1
	(0)		(-6.1 - 3.0)E 0 (0/ 2)		(-3.4 - 2.3)E 0 (0/ 2)	(-3.4 - 2.3)E 0 (0/ 2)

* Non-Routine refers to those radionuclides that exceeded the Reporting Levels in ODCM Table A.9.1-3.
** The fraction of detectable measurements (i.e., > MDC with no uncertain identification) is shown in parentheses.

Table 3.10-1
Radiological Environmental Monitoring Program Summary
Seabrook Nuclear Power Station, Seabrook, NH
(January - December 2020)

MEDIUM: Irish Moss (AL) UNITS: pCi/kg

Radionuclides (No. Analyses) (Non-Routine*)		Required LLD	Indicator Stations Mean Range (No. Detected**)	Station With Highest Mean Station	Station With Highest Mean Mean Range (No. Detected**)	Control Stations Mean Range (No. Detected**)
Ru-106	(4)		-2.6E 0	55	1.5E 1	1.5E 1
	(0)		(-4.8 - -0.5)E 0 (0/ 2)		(1.2 - 1.9)E 1 (0/ 2)	(1.2 - 1.9)E 1 (0/ 2)
Ag-108m	(4)		-4.3E 0	55	-1.2E 0	-1.2E 0
	(0)		(-5.6 - -2.9)E 0 (0/ 2)		(-2.8 - 0.3)E 0 (0/ 2)	(-2.8 - 0.3)E 0 (0/ 2)
Ag-110m	(4)		-6.7E 0	55	3.0E 0	3.0E 0
	(0)		(-1.1 - -0.3)E 1 (0/ 2)		(-3.7 - 601.0)E -2 (0/ 2)	(-3.7 - 601.0)E -2 (0/ 2)
Sb-124	(4)		1.2E 0	05	1.2E 0	-6.4E 0
	(0)		(-1.4 - 1.6)E 1 (0/ 2)		(-1.4 - 1.6)E 1 (0/ 2)	(-1.3 - 0.0)E 1 (0/ 2)
Sb-125	(4)		2.5E 0	05	2.5E 0	-8.9E 0
	(0)		(-1.8 - 52.7)E -1 (0/ 2)		(-1.8 - 52.7)E -1 (0/ 2)	(-9.4 - -8.5)E 0 (0/ 2)
I-131	(4)	60	2.2E 0	55	6.4E 0	6.4E 0
	(0)		(1.6 - 2.9)E 0 (0/ 2)		(3.6 - 9.2)E 0 (0/ 2)	(3.6 - 9.2)E 0 (0/ 2)
Cs-134	(4)	60	1.5E -2	05	1.5E -2	-1.8E 0
	(0)		(-1.9 - 1.9)E 0 (0/ 2)		(-1.9 - 1.9)E 0 (0/ 2)	(-2.3 - -1.3)E 0 (0/ 2)
Cs-137	(4)	80	4.3E 0	05	4.3E 0	-5.4E 0
	(0)		(-4.4 - 90.5)E -1 (0/ 2)		(-4.4 - 90.5)E -1 (0/ 2)	(-1.2 - 0.2)E 1 (0/ 2)
Ba-140	(4)		3.4E 1	05	3.4E 1	2.1E 0
	(0)		(9.3 - 58.4)E 0 (0/ 2)		(9.3 - 58.4)E 0 (0/ 2)	(-7.5 - 11.7)E 0 (0/ 2)
La-140	(4)		-1.8E 0	05	-1.8E 0	-7.9E 0
	(0)		(-3.9 - 0.4)E 0 (0/ 2)		(-3.9 - 0.4)E 0 (0/ 2)	(-1.3 - -0.2)E 1 (0/ 2)
Ce-141	(4)		2.1E -1	55	4.1E 0	4.1E 0
	(0)		(-1.5 - 1.9)E 0 (0/ 2)		(3.2 - 4.9)E 0 (0/ 2)	(3.2 - 4.9)E 0 (0/ 2)

* Non-Routine refers to those radionuclides that exceeded the Reporting Levels in ODCM Table A.9.1-3.
** The fraction of detectable measurements (i.e., > MDC with no uncertain identification) is shown in parentheses.

Table 3.10-1
Radiological Environmental Monitoring Program Summary
Seabrook Nuclear Power Station, Seabrook, NH
(January - December 2020)

MEDIUM: Irish Moss (AL) UNITS: pCi/kg

Radionuclides (No. Analyses) (Non-Routine*)		Required LLD	Indicator Stations Mean Range (No. Detected**)	Station With Highest Mean Station	Station With Highest Mean Mean Range (No. Detected**)	Control Stations Mean Range (No. Detected**)
Ce-144	**(4)**		1.5E 1	05	1.5E 1	-7.3E 0
	(0)		(-1.4 - 4.3)E 1 (0/ 2)		(-1.4 - 4.3)E 1 (0/ 2)	(-1.8 - 0.3)E 1 (0/ 2)
Ac-228	**(4)**		1.3E 1	55	5.3E 1	5.3E 1
	(0)		(6.3 - 19.8)E 0 (0/ 2)		(2.8 - 7.9)E 1 (0/ 2)	(2.8 - 7.9)E 1 (0/ 2)
Th-228	**(4)**		7.3E 0	05	7.3E 0	4.6E 0
	(0)		(-4.8 - 19.4)E 0 (0/ 2)		(-4.8 - 19.4)E 0 (0/ 2)	(4.1 - 5.1)E 0 (0/ 2)

* Non-Routine refers to those radionuclides that exceeded the Reporting Levels in ODCM Table A.9.1-3.
** The fraction of detectable measurements (i.e., > MDC with no uncertain identification) is shown in parentheses.

3.11 Food Crop

There is no requirement for food crop or vegetation samples as long as the required milk locations are available. As noted in Section 3.3, milk sampling at the minimum required number of locations in 2020 was not possible due to the limited inventory of milk animal sites in the plant vicinity. To compensate for this, vegetation samples were collected as part of the REMP. Section 3.12 describes the alternate broad leafy vegetation (TG) collections.

In addition to the broad leafy vegetation sampling, nine food crop (TF) samples were collected from three locations listed on Table 2.0-2 (two indicator stations, TF-02 and TF-03, and one control station, TF-06) during the growing season months (June, July and August). These included strawberries in June (Lab numbers 514168001, 2, & 3), blueberries and squash in July (Lab numbers 516040001, 2, & 3), and tomatoes in August (Lab numbers 518831001, 2 and 3).

A gamma analysis was performed on each sample. Naturally-occurring K-40 was detected in all samples for both indicator and control stations. Similar to past years, no plant-related radionuclides were detected in any samples. Therefore, no increasing or decreasing trends are identified. Subsequently, there is no dose to the public or impact on the environment through this pathway due to plant operations. This is consistent with the pre-operational program and with previous years of plant operations.

The following REMP Summary (Table 3.11-1) lists the range of analysis results by radionuclide for indicator and control stations for the Food Crop environmental media. Attachment 1 to this report lists the individual analysis results for each measurement of Food Crops under the Sample Type code TF.

Any sample collection and analysis deviations from the ODCM defined program, or reportable concentrations that may have occurred during the year, are described in Section 5.

Table 3.11-1
Radiological Environmental Monitoring Program Summary
Seabrook Nuclear Power Station, Seabrook, NH
(January - December 2020)

MEDIUM: Food Crop (TF) UNITS: pCi/kg

Radionuclides (No. Analyses) (Non-Routine*)	Required LLD	Indicator Stations Mean Range (No. Detected**)	Station With Highest Mean Station	Station With Highest Mean Mean Range (No. Detected**)	Control Stations Mean Range (No. Detected**)
Be-7 (9)		1.2E 1	03	2.1E 1	1.7E 1
(0)		(-2.0 - 2.8)E 1 (0/ 6)		(1.3 - 2.8)E 1 (0/ 3)	(1.1 - 2.3)E 1 (0/ 3)
K-40 (9)		1.7E 3	03	2.1E 3	1.3E 3
(0)		(6.2 - 25.8)E 2 (6/ 6)		(1.5 - 2.6)E 3 (3/ 3)	(4.9 - 21.6)E 2 (3/ 3)
Cr-51 (9)		9.2E 0	03	1.1E 1	8.3E 0
(0)		(-3.1 - 23.4)E 0 (0/ 6)		(7.0 - 234.0)E -1 (0/ 3)	(-1.2 - 24.6)E 0 (0/ 3)
Mn-54 (9)		9.2E -1	03	1.5E 0	-2.2E -1
(0)		(-1.3 - 4.3)E 0 (0/ 6)		(-2.4 - 42.5)E -1 (0/ 3)	(-4.7 - 2.5)E 0 (0/ 3)
Co-57 (9)		4.1E -1	06	8.7E -1	8.7E -1
(0)		(-1.1 - 2.1)E 0 (0/ 6)		(2.8 - 13.9)E -1 (0/ 3)	(2.8 - 13.9)E -1 (0/ 3)
Co-58 (9)		-6.1E -1	06	1.8E 0	1.8E 0
(0)		(-2.2 - 1.5)E 0 (0/ 6)		(-6.6 - 62.6)E -1 (0/ 3)	(-6.6 - 62.6)E -1 (0/ 3)
Fe-59 (9)		1.0E 0	02	5.3E 0	-2.6E 0
(0)		(-9.9 - 8.3)E 0 (0/ 6)		(3.7 - 8.3)E 0 (0/ 3)	(-7.8 - 2.1)E 0 (0/ 3)
Co-60 (9)		4.1E -1	02	4.4E -1	1.6E -1
(0)		(-4.0 - 11.3)E -1 (0/ 6)		(-4.0 - 11.3)E -1 (0/ 3)	(-2.1 - 3.0)E 0 (0/ 3)
Zn-65 (9)		8.0E -1	02	1.4E 0	-8.6E -1
(0)		(-4.7 - 7.0)E 0 (0/ 6)		(-4.7 - 7.0)E 0 (0/ 3)	(-2.1 - 0.7)E 0 (0/ 3)
Se-75 (9)		6.0E -1	03	1.9E 0	-5.5E -1
(0)		(-7.0 - 31.2)E -1 (0/ 6)		(6.6 - 31.2)E -1 (0/ 3)	(-1.6 - 0.5)E 0 (0/ 3)
Nb-95 (9)		2.3E 0	02	3.0E 0	-9.5E -2
(0)		(6.9 - 50.2)E -1 (0/ 6)		(7.5 - 50.2)E -1 (0/ 3)	(-2.0 - 2.3)E 0 (0/ 3)
Zr-95 (9)		5.4E -1	06	1.2E 0	1.2E 0
(0)		(-6.7 - 21.3)E -1 (0/ 6)		(1.5 - 339.0)E -2 (0/ 3)	(1.5 - 339.0)E -2 (0/ 3)
Ru-103 (9)		-1.4E 0	06	1.2E 0	1.2E 0
(0)		(-4.3 - 1.7)E 0 (0/ 6)		(-6.0 - 43.1)E -1 (0/ 3)	(-6.0 - 43.1)E -1 (0/ 3)

* Non-Routine refers to those radionuclides that exceeded the Reporting Levels in ODCM Table A.9.1-3.
** The fraction of detectable measurements (i.e., > MDC with no uncertain identification) is shown in parentheses.

Table 3.11-1 (Continued)

Radiological Environmental Monitoring Program Summary
Seabrook Nuclear Power Station, Seabrook, NH
(January - December 2020)

MEDIUM: Food Crop (TF) UNITS: pCi/kg

Radionuclides (No. Analyses) (Non-Routine*)		Required LLD	Indicator Stations Mean Range (No. Detected**)	Station With Highest Mean Station	Station With Highest Mean Mean Range (No. Detected**)	Control Stations Mean Range (No. Detected**)
Ru-106	(9)		-1.4E 1	06	3.3E 0	3.3E 0
	(0)		(-3.1 - 0.6)E 1 (0/ 6)		(-2.1 - 5.1)E 1 (0/ 3)	(-2.1 - 5.1)E 1 (0/ 3)
Ag-108m	(9)		1.8E -2	03	8.5E -1	-1.7E 0
	(0)		(-4.0 - 1.3)E 0 (0/ 6)		(4.2 - 12.5)E -1 (0/ 3)	(-2.5 - -1.3)E 0 (0/ 3)
Ag-110m	(9)		-8.0E -1	03	4.1E -1	-3.3E -1
	(0)		(-4.9 - 1.2)E 0 (0/ 6)		(-7.2 - 12.2)E -1 (0/ 3)	(-2.4 - 1.8)E 0 (0/ 3)
Sb-124	(9)		-2.6E -1	03	3.3E 0	-2.4E 0
	(0)		(-1.1 - 0.6)E 1 (0/ 6)		(1.8 - 6.1)E 0 (0/ 3)	(-5.1 - -0.9)E 0 (0/ 3)
Sb-125	(9)		-2.1E 0	06	1.6E 0	1.6E 0
	(0)		(-1.5 - 0.2)E 1 (0/ 6)		(-1.1 - 4.7)E 0 (0/ 3)	(-1.1 - 4.7)E 0 (0/ 3)
I-131	(9)	60	5.4E -1	02	2.3E 0	1.5E 0
	(0)		(-4.2 - 9.2)E 0 (0/ 6)		(-4.2 - 9.2)E 0 (0/ 3)	(6.0 - 25.8)E -1 (0/ 3)
Cs-134	(9)	60	1.2E 0	03	1.4E 0	-1.0E 0
	(0)		(-1.8 - 31.0)E -1 (0/ 6)		(2.4 - 31.0)E -1 (0/ 3)	(-4.9 - 2.5)E 0 (0/ 3)
Cs-137	(9)	80	2.3E 0	02	2.3E 0	5.8E -1
	(0)		(-4.4 - 59.3)E -1 (0/ 6)		(-4.4 - 59.3)E -1 (0/ 3)	(-1.3 - 2.8)E 0 (0/ 3)
Ba-140	(9)		6.3E -1	06	3.8E 0	3.8E 0
	(0)		(-6.9 - 13.4)E 0 (0/ 6)		(-2.7 - 10.3)E 0 (0/ 3)	(-2.7 - 10.3)E 0 (0/ 3)
La-140	(9)		-2.2E 0	06	-1.1E 0	-1.1E 0
	(0)		(-6.1 - 1.2)E 0 (0/ 6)		(-1.7 - 0.0)E 0 (0/ 3)	(-1.7 - 0.0)E 0 (0/ 3)
Ce-141	(9)		-1.8E 0	06	4.4E -1	4.4E -1
	(0)		(-5.4 - 1.9)E 0 (0/ 6)		(-8.2 - 14.5)E -1 (0/ 3)	(-8.2 - 14.5)E -1 (0/ 3)
Ce-144	(9)		5.1E 0	03	7.2E 0	-2.3E 0
	(0)		(-5.3 - 13.0)E 0 (0/ 6)		(4.2 - 11.1)E 0 (0/ 3)	(-2.0 - 1.4)E 1 (0/ 3)
Ac-228	(9)		4.9E 0	02	1.3E 1	1.2E 1
	(0)		(-6.4 - 25.3)E 0 (0/ 6)		(5.0 - 25.3)E 0 (0/ 3)	(6.1 - 17.7)E 0 (0/ 3)
Th-228	(9)		-1.3E 0	06	3.0E 0	3.0E 0
	(0)		(-9.7 - 5.1)E 0 (0/ 6)		(-3.6 - 8.3)E 0 (0/ 3)	(-3.6 - 8.3)E 0 (0/ 3)

* Non-Routine refers to those radionuclides that exceeded the Reporting Levels in ODCM Table A.9.1-3.
** The fraction of detectable measurements (i.e., > MDC with no uncertain identification) is shown in parentheses.

3.12 Vegetation

In lieu of milk sampling, the ODCM, Table A.9.1-1, requires that broad leafy vegetation (TG) samples grown in the nearest of two different offsite locations with the highest D/Q, and from one control location 15-30 km distant in the least prevalent wind direction, be collected when available (growing season). Offsite locations are defined in the UFSAR as the land beyond a 3000-foot radius of the two Containment Building centerlines. The analysis of garden locations in the Land Use Census provides a ranking of potential sampling sites for use in determining sampling locations in the general population. Since sampling of broad leaf garden vegetables at high D/Q locations is not feasible due to uncertain availability, other types of broad leafy vegetation were utilized.

Two locations at the site boundary with a maximum D/Q (higher values than determined in the 2020 Land Use Census garden listing) were selected over ranked D/Q gardens in the general population. These two Indicator locations (TG-08 and TG-09) are on site property in areas with available sample media. A third far-field control location (TG-10) was selected in Georgetown, MA. Samples consisted of tree leaves, as broad leaf vegetation provides increased reliability for sample availability. For 2020, a total of 18 monthly (growing season) broad leaf vegetation samples were collected and analyzed by gamma spectroscopy.

A gamma analysis was performed on each sample. Naturally-occurring Be-7 was detected in all samples for both indicator and control stations and K-40 was detected in 17 of 18 samples. Naturally-occurring Ac-228, part of the Thorium-232 decay chain, was detected in two samples. Naturally-occurring Th-228, part of the Thorium-232 decay chain, was detected in one of 18 samples. Cesium-137 was not detected in 2020, but has been detected in broad leafy vegetation in past and evaluated as to the source. The conclusion of the assessment was that world-wide fallout from events un-related to Seabrook operations, such as the March 11, 2011 Fukushima Daiichi accident in Japan and past atmospheric nuclear weapons testing, have led to Cs-137 being deposited on the ground surface in the northeast United States with subsequent root uptake into leaves of long-lived vegetation. This conclusion continues to be supported by the fact that Seabrook Station had no detectable Cs-137 in any gaseous effluents in recent years, including 2020, and by the prevalence of detectable Cs-137 at the control location compared to in-close indicator sampling points. Utilizing the results of broad leaf vegetation sampling for broad leaf food products, it is concluded that there was no dose impact to the public or to the environment through this food ingestion pathway from Seabrook plant operations.

The following REMP Summary (Table 3.12-1) lists the range of analysis results by radionuclide for indicator and control stations for the broad leaf vegetation environmental media. Attachment 1 to this report lists the individual analysis results for each measurement of broad leaf vegetation under the Sample Type code TG.

Any sample collection and analysis deviations from the ODCM required program, or reportable concentrations that may have occurred during the year, are described in Section 5.

Table 3.12-1
Radiological Environmental Monitoring Program Summary
Seabrook Nuclear Power Station, Seabrook, NH
(January - December 2020)

MEDIUM: Vegetation (TG) UNITS: pCi/kg

Radionuclides (No. Analyses) (Non-Routine*)	Required LLD	Indicator Stations Mean Range (No. Detected**)	Station With Highest Mean Station	Station With Highest Mean Mean Range (No. Detected**)	Control Stations Mean Range (No. Detected**)
Be-7 (18)		7.8E 2	08	7.9E 2	7.7E 2
(0)		(1.6 - 14.3)E 2 (12/ 12)		(2.4 - 13.1)E 2 (6/ 6)	(3.4 - 11.1)E 2 (6/ 6)
K-40 (18)		3.6E 3	10	4.0E 3	4.0E 3
(0)		(0.0 - 5.4)E 3 (11/ 12)		(2.4 - 5.2)E 3 (6/ 6)	(2.4 - 5.2)E 3 (6/ 6)
Cr-51 (18)		-1.7E 1	10	-2.3E 0	-2.3E 0
(0)		(-9.0 - 4.1)E 1 (0/ 12)		(-8.5 - 5.9)E 1 (0/ 6)	(-8.5 - 5.9)E 1 (0/ 6)
Mn-54 (18)		1.8E 0	08	2.3E 0	-8.3E -3
(0)		(-3.7 - 9.9)E 0 (0/ 12)		(-3.4 - 9.9)E 0 (0/ 6)	(-7.7 - 11.5)E 0 (0/ 6)
Co-57 (18)		2.7E 0	09	4.9E 0	2.6E 0
(0)		(-7.8 - 14.3)E 0 (0/ 12)		(-1.1 - 143.0)E -1 (0/ 6)	(2.2 - 523.0)E -2 (0/ 6)
Co-58 (18)		7.9E -2	10	5.0E 0	5.0E 0
(0)		(-1.3 - 1.2)E 1 (0/ 12)		(-3.8 - 10.0)E 0 (0/ 6)	(-3.8 - 10.0)E 0 (0/ 6)
Fe-59 (18)		5.6E 0	08	6.1E 0	-2.9E 0
(0)		(-8.3 - 26.3)E 0 (0/ 12)		(6.1 - 187.0)E -1 (0/ 6)	(-1.3 - 0.5)E 1 (0/ 6)
Co-60 (18)		3.2E 0	09	3.7E 0	4.8E -1
(0)		(-1.3 - 2.7)E 1 (0/ 12)		(-6.5 - 11.6)E 0 (0/ 6)	(-8.4 - 10.0)E 0 (0/ 6)
Zn-65 (18)		7.9E 0	08	1.2E 1	-4.5E -1
(0)		(-9.9 - 50.7)E 0 (0/ 12)		(-9.9 - 50.7)E 0 (0/ 6)	(-2.3 - 1.9)E 1 (0/ 6)
Se-75 (18)		4.5E -1	08	5.1E 0	-5.1E 0
(0)		(-1.7 - 1.6)E 1 (0/ 12)		(-3.9 - 15.7)E 0 (0/ 6)	(-1.3 - 0.3)E 1 (0/ 6)
Nb-95 (18)		1.5E 0	09	1.5E 0	2.0E -1
(0)		(-6.9 - 9.1)E 0 (0/ 12)		(-6.9 - 9.1)E 0 (0/ 6)	(-3.4 - 6.2)E 0 (0/ 6)
Zr-95 (18)		-2.9E -1	10	1.3E 0	1.3E 0
(0)		(-1.7 - 2.5)E 1 (0/ 12)		(-9.0 - 12.3)E 0 (0/ 6)	(-9.0 - 12.3)E 0 (0/ 6)
Ru-103 (18)		1.1E 0	09	2.6E 0	-4.2E 0
(0)		(-1.1 - 1.6)E 1 (0/ 12)		(-4.2 - 16.4)E 0 (0/ 6)	(-9.4 - 2.9)E 0 (0/ 6)
Ru-106 (18)		-4.3E -1	10	5.3E 1	5.3E 1
(0)		(-1.4 - 1.9)E 2 (0/ 12)		(-1.5 - 12.1)E 1 (0/ 6)	(-1.5 - 12.1)E 1 (0/ 6)

* Non-Routine refers to those radionuclides that exceeded the Reporting Levels in ODCM Table A.9.1-3.
** The fraction of detectable measurements (i.e., > MDC with no uncertain identification) is shown in parentheses.

Table 3.12-1 (Continued)
Radiological Environmental Monitoring Program Summary
Seabrook Nuclear Power Station, Seabrook, NH
(January - December 2020)

MEDIUM: Vegetation (TG) UNITS: pCi/kg

Radionuclides (No. Analyses) (Non-Routine*)		Required LLD	Indicator Stations Mean Range (No. Detected**)	Station With Highest Mean Station	Station With Highest Mean Mean Range (No. Detected**)	Control Stations Mean Range (No. Detected**)
Ag-108m	(18)		-4.2E -1	10	1.3E -1	1.3E -1
	(0)		(-1.0 - 1.2)E 1 (0/ 12)		(-4.3 - 4.0)E 0 (0/ 6)	(-4.3 - 4.0)E 0 (0/ 6)
Ag-110m	(18)		-2.3E 0	10	1.6E 0	1.6E 0
	(0)		(-2.4 - 1.5)E 1 (0/ 12)		(-7.1 - 8.5)E 0 (0/ 6)	(-7.1 - 8.5)E 0 (0/ 6)
Sb-124	(18)		-2.7E 0	09	2.8E 0	-5.3E 0
	(0)		(-2.3 - 1.9)E 1 (0/ 12)		(-6.0 - 18.7)E 0 (0/ 6)	(-3.3 - 0.9)E 1 (0/ 6)
Sb-125	(18)		4.3E 0	09	1.0E 1	4.7E 0
	(0)		(-2.0 - 4.9)E 1 (0/ 12)		(-1.7 - 4.9)E 1 (0/ 6)	(-4.3 - 18.8)E 0 (0/ 6)
I-131	(18)	60	6.3E -1	09	4.5E 0	-3.5E 0
	(0)		(-1.2 - 1.0)E 1 (0/ 12)		(-3.2 - 10.3)E 0 (0/ 6)	(-2.0 - 0.4)E 1 (0/ 6)
Cs-134	(18)	60	8.1E -1	08	6.1E 0	2.4E 0
	(0)		(-1.3 - 2.3)E 1 (0/ 12)		(-3.6 - 23.4)E 0 (0/ 6)	(-2.7 - 6.7)E 0 (0/ 6)
Cs-137	(18)	80	3.8E 0	09	4.2E 0	1.9E 0
	(0)		(-6.8 - 21.4)E 0 (0/ 12)		(-8.0 - 101.0)E -1 (0/ 6)	(-9.3 - 13.3)E 0 (0/ 6)
Ba-140	(18)		1.6E 0	08	1.2E 1	-2.1E 1
	(0)		(-6.1 - 3.4)E 1 (0/ 12)		(-1.7 - 3.4)E 1 (0/ 6)	(-9.4 - 1.2)E 1 (0/ 6)
La-140	(18)		-3.8E 0	09	-2.1E -1	-1.7E 0
	(0)		(-1.7 - 0.9)E 1 (0/ 12)		(-1.5 - 0.9)E 1 (0/ 6)	(-8.2 - 11.0)E 0 (0/ 6)
Ce-141	(18)		-1.5E 1	10	-6.2E 0	-6.2E 0
	(0)		(-6.1 - 1.0)E 1 (0/ 12)		(-2.0 - 0.9)E 1 (0/ 6)	(-2.0 - 0.9)E 1 (0/ 6)
Ce-144	(18)		-4.9E 0	08	7.6E 0	-1.6E 1
	(0)		(-1.2 - 0.4)E 2 (0/ 12)		(-4.2 - 3.8)E 1 (0/ 6)	(-4.3 - 0.6)E 1 (0/ 6)
Ac-228	(18)		5.2E 1	09	7.0E 1	6.3E 1
	(0)		(-1.6 - 17.1)E 1 (1/ 12)		(1.1 - 17.1)E 1 (1/ 6)	(-8.6 - 135.0)E 0 (1/ 6)
Th-228	(18)		1.1E 1	08	1.8E 1	6.1E 0
	(0)		(-2.1 - 7.9)E 1 (1/ 12)		(-2.1 - 7.9)E 1 (1/ 6)	(-2.4 - 2.6)E 1 (0/ 6)

* Non-Routine refers to those radionuclides that exceeded the Reporting Levels in ODCM Table A.9.1-3.
** The fraction of detectable measurements (i.e., > MDC with no uncertain identification) is shown in parentheses.

3.13 Direct Radiation

Direct gamma radiation exposure was measured with thermoluminescent dosimeters (TLDs). Two TLD badges are placed at each of the designated monitoring stations. Each TLD badge has three $CaSO_4$:Tm elements. The badges were collected and read on a quarterly schedule. A location result is an average of six independent readings per quarter. A total of forty-six stations are located offsite, forty of which are required by the ODCM.

The exposure rates were normalized to a standard 91-day quarter so that quarterly results from any monitoring location can be compared to another location based on an equivalent time period of exposure. A summary of the 2020 data for the plant operational REMP is shown in Table 3.13-1. Figures 3.6 through 3.14 provide a comparison of quarterly TLD location responses in 2020 and illustrate the naturally variation in exposure rates quarter to quarter. Figures 3.6.1 through 3.14.1 provide a long term trend line for each of the environmental TLD locations.

The exposure rate response at individual monitoring stations have on occasion exhibited step changes at some point in the past that are related to changes in local conditions in the area of the dosimeter measurement. As an example, the outer ring TL-33 (a parking lot located 9.8 km south of the plant) was observed for several quarters in the recent past to approach or exceed the normal expected environmental fluctuations based on observed history. The average TLD exposure rate from the 2nd quarter 2011 through the 4th quarter of 2013 is reported as 21.8 mR/quarter. For the seven prior quarters (3rd quarter 2009 to the 1st quarter 2011), the average TLD response was 18.6 mR/quarter, or approximately 17% lower than the most recent trend history. Since no other TLDs in the same sector or closer to the plant showed an average increase in measured response above the expected, the change at TL-33 was attributed to a local change in the background radiation associated with parking lot modifications and not with Seabrook Station operations. Field investigations of TL-33 indicated that the parking lot appeared to be re-graded with new fill/gravel material which could have increased the natural concentration of background radiation that the TLD measures. The expected background exposure level for location TL-33 was re-indexed to 20.6 mR/quarter in 2013 to reflect the observed change in background radiation. Three other locations (TL-01, TL-69 and TL-18) also indicated changes in background exposure rates trends over time (un-related to Seabrook operations) and had their expected background exposure levels re-indexed to 17.4 mR/quarter, 13.7 mR/quarter, and 16.3 mR/quarter respectively, in 2013 (for TL-01 and TL-69) and 2019 (for TL-18).

Overall, the REMP direct radiation program showed no statistically significant indication of increased direct radiation above the variable background measured exposure rate in unrestricted areas. This is demonstrated by the fact that indicator location results (as a group) are statistically the same as control locations. The 2020 annual mean of all indicator locations was 16.5 mR/91-day quarter while the mean of all control locations was 17.4 mR/91-day quarter. This indicates that collectively there is no statistical difference in the annual direct dose as a function of distance from the plant. As a result, no direct radiation dose beyond the site boundary was attributed to station operation during 2020.

Starting in 2015, a supplemental analytical method was implemented to evaluate the TLD measurements. Using the method described in ANSI/HPS N13.37-2014, quarterly and annual baseline dose for each TLD location was determined using appropriate statistical analytical methods considering data from 2004 through 2014. Quarterly and annual dose for 2020 was compared to baseline values to determine if an Investigation Level had been exceeded for evaluation of potential dose to a member of the public. An Investigation Level is considered to be exceeded under the following conditions:

$$\text{Quarterly: If } M_Q > (B_Q + MDD_Q), \text{ then } F_Q = M_Q - B_Q$$

Where:

M_Q is the normalized quarterly field measurement result
B_Q is the quarterly baseline background dose
MDD_Q is the quarterly minimum differential dose and
F_Q is the quarterly facility related dose

Or: Annually: If $M_A > (B_A + MDD_A)$, then $F_A = M_A - B_A$

Where:

M_A is the sum of the four normalized quarterly measurement values
B_A is the annual baseline background dose
MDD_A is the annual minimum differential dose
F_A is the annual facility related dose

Table 3.13-3 summarizes the evaluation of the TLD measurements using the methodology described in ANSI/HPS N13.37-2014. As noted in Table 3.13-3, an annual dose of 14.6 mR was calculated for location TL-25 using the ANSI/HPS N13.37-2014 methodology and the baseline values calculated using data from 2004 to 2014. However, this dose was determined not to be facility related due to the distance of this TLD location with respect to the plant (7.6 km) and the lack of any observed dose for TLD locations closer to the plant. The observed dose is likely a result of a change in the environment at the TLD location. Figure 3.10.1 shows a step increase in the quarterly TLD values for this location starting in 2020. For this reason, the location will continue to be monitored and the quarterly and annual baseline values for this location will be adjusted, as necessary.

The direct radiation-monitoring program demonstrated that no increasing or decreasing trends were detected. Therefore, there was no offsite dose to the public or impact to the environment from the operation of the plant.

Any TLD collection and analysis deviations from the ODCM required program that may have occurred during the year are described in Section 5.

Table 3.13-1

Environmental TLD Measurements
Net Exposure in mR/Standard Quarter (91 days)

2020

Sta. No.	Description	1st Quarter Exp.	S.D.	2nd Quarter Exp.	S.D.	3rd Quarter Exp.	S.D.	4th Quarter Exp.	S.D.	Qtr Ave. Exp.
TL-01	Brimmer's Lane	18.0	± 1.0	18.3	± 0.6	17.3	± 0.8	18.6	± 0.9	18.1
TL-02	Landing Road	13.0	± 0.8	14.0	± 0.5	13.2	± 0.6	14.3	± 0.7	13.6
TL-03	Glade Path	14.0	± 0.6	14.4	± 0.5	13.2	± 0.8	15.2	± 0.6	14.2
TL-04	Island Path	15.7	± 0.6	15.6	± 0.8	14.6	± 0.8	16.2	± 0.8	15.5
TL-05	Harbor Road	14.2	± 0.7	15.3	± 0.7	13.4	± 0.8	15.2	± 0.6	14.5
TL-06	Barge Landing	14.3	± 0.6	14.5	± 0.9	13.5	± 0.7	15.3	± 0.7	14.4
TL-07	Cross Road	12.8	± 0.7	13.2	± 0.6	11.7	± 0.5	13.8	± 0.7	12.9
TL-08	Farm Lane	15.1	± 0.7	15.7	± 0.8	14.3	± 0.7	15.8	± 0.9	15.2
TL-09	Farm Lane	16.4	± 0.8	16.4	± 0.5	15.4	± 0.7	17.2	± 0.8	16.4
TL-10	Site Boundary	14.8	± 0.8	16.7	± 0.5	14.9	± 0.9	18.6	± 1.2	16.3
TL-11	Site Boundary	17.2	± 0.8	19.3	± 1.0	16.9	± 1.0	19.9	± 0.9	18.3
TL-12	Site Boundary	18.4	± 0.9	19.0	± 0.9	18.2	± 0.8	20.0	± 0.8	18.9
TL-13	Inside Site Boundary	18.1	± 0.7	19.3	± 0.6	17.1	± 0.8	19.1	± 0.8	18.4
TL-14	Trailer Park	16.1	± 0.6	17.1	± 0.6	15.0	± 0.8	16.6	± 0.8	16.2
TL-15	Brimmer's Lane	18.5	± 0.9	18.6	± 0.7	18.8	± 0.9	19.9	± 1.0	19.0
TL-16	Brimmer's Lane	16.4	± 0.7	17.7	± 0.7	16.0	± 1.0	16.9	± 0.7	16.8
TL-17	South Road	14.6	± 0.6	15.4	± 1.2	15.0	± 0.9	15.4	± 0.8	15.1
TL-18	Mill Road	17.8	± 0.7	17.8	± 0.7	17.5	± 0.8	18.1	± 0.8	17.8
TL-19	Appledore Avenue	15.0	± 0.7	15.5	± 0.6	14.9	± 0.7	16.2	± 0.9	15.4
TL-20	Ashworth Avenue	16.9	± 0.9	17.3	± 0.6	15.4	± 0.7	17.5	± 0.6	16.8
TL-21	Route 1A	17.4	± 0.7	17.8	± 0.8	16.8	± 0.8	18.7	± 0.8	17.7
TL-22	Cable Avenue	16.0	± 0.8	16.0	± 0.7	15.3	± 0.7	16.8	± 0.7	16.0
TL-23	Ferry Road	15.5	± 0.8	15.8	± 0.8	14.9	± 0.6	16.4	± 0.6	15.7
TL-24	Ferry Lots Lane	17.5	± 0.8	17.4	± 0.7	17.5	± 0.8	17.9	± 0.6	17.6
TL-25	Elm Street	15.5	± 0.7	16.2	± 0.8	19.8	± 1.0	25.2	± 1.0	19.2
TL-26	Route 107A	15.0	± 0.6	14.8	± 0.5	14.4	± 0.9	16.7	± 0.6	15.2
TL-27	Highland Street	15.7	± 0.7	16.0	± 0.7	15.4	± 0.8	17.4	± 0.7	16.1
TL-28	Route 150	17.4	± 0.9	17.6	± 0.7	17.1	± 0.8	18.2	± 0.9	17.6
TL-29	Frying Pan Lane	14.7	± 0.6	16.1	± 0.7	15.5	± 0.7	16.7	± 0.7	15.8
TL-30	Route 27	16.4	± 0.7	17.3	± 0.6	16.7	± 0.8	18.3	± 1.2	17.2
TL-31	Alumni Drive	14.1	± 0.8	14.6	± 0.5	14.1	± 0.6	15.7	± 1.3	14.6
TL-32	SB Elementary School	18.4	± 0.7	18.2	± 0.6	17.2	± 0.7	15.0	± 0.6	17.2
TL-33	Dock Area	11.8	± 0.6	11.7	± 0.6	10.2	± 0.5	12.1	± 0.6	11.5
TL-34	Bow Street	19.5	± 0.8	21.2	± 0.7	20.0	± 0.9	21.6	± 0.8	20.6
TL-35	Lincoln Ack. School	17.5	± 0.7	18.4	± 0.8	17.6	± 0.8	19.2	± 0.8	18.2
TL-36	Route 97(Control)	14.7	± 0.5	15.5	± 0.6	14.0	± 0.7	15.3	± 0.7	14.9
TL-37	Plaistow, NH (Control)	17.4	± 0.7	18.3	± 0.7	17.6	± 0.9	18.7	± 0.7	18.0
TL-38	Hampstead, NH (Control)	17.9	± 0.8	19.0	± 0.6	17.6	± 0.9	19.4	± 0.7	18.5

Table 3.13-1 (Continued)

Environmental TLD Measurements
Net Exposure in mR/Standard Quarter (91 days)

2020

Sta. No.	Description	1st Quarter Exp.	S.D.	2nd Quarter Exp.	S.D.	3rd Quarter Exp.	S.D.	4th Quarter Exp.	S.D.	Qtr. Ave. Exp.
TL-39	Fremont, NH (Control)	20.2	± 0.8	21.9	± 0.6	20.3	± 0.9	21.2	± 0.8	20.9
TL-40	Newmarket, NH (Control)	16.2	± 0.8	17.5	± 0.7	17.0	± 0.8	17.7	± 0.8	17.1
TL-41	Portsmouth, NH (Control)	17.0	± 0.7	17.2	± 0.7		(1)	21.0	± 1.3	18.4
TL-42	Ipswich, MA (Control)	14.3	± 0.7	13.5	± 0.6	13.1	± 0.6	15.3	± 1.1	14.1
TL-44	SB Education Center	14.5	± 0.6	15.0	± 0.7	14.2	± 0.6	16.3	± 1.0	15.0
TL-45	Hampton Fire Station	16.2	± 0.9	16.6	± 0.6	14.9	± 0.8	16.9	± 0.7	16.2
TL-46	SB Police Station	16.5	± 0.8	17.6	± 0.8	16.0	± 0.9	17.3	± 0.9	16.9
TL-47	Route 84	16.1	± 0.8	16.8	± 0.6	16.2	± 0.7	17.2	± 0.6	16.6
	Mean of Indicators	16.0		16.6		15.6		17.3		16.4
	Mean of Controls	16.8		17.6		16.6		18.4		17.4

(1) TLD missing at time of collection.

Table 3.13-2

Pre-Operational Environmental TLD Measurements
Net Exposure in mR/Standard Quarter (91 days)

	1st Quarter Exp.	2nd Quarter Exp.	3rd Quarter Exp.	4th Quarter Exp.	Qtr Ave Over Yr Exp.
1982					
Mean of Indicators	--	17.1	18.1	17.5	17.6
Mean of Controls	--	16.9	18.1	17.9	16.8
1983					
Mean of Indicators	16.7	17.1	18.8	17.9	17.6
Mean of Controls	16.9	17.5	18.7	18.4	17.9
1984					
Mean of Indicators	16.1	17.1	16.9	17.5	17.0
Mean of Controls	17.6	17.4	15.8	18.7	17.4
1985					
Mean of Indicators	16.9	18.0	18.9	16.1	17.4
Mean of Controls	16.8	17.7	18.9	16.1	17.4
1986					
Mean of Indicators	14.0	15.5	15.3	15.0	15.0
Mean of Controls	13.9	18.0	16.8	15.1	16.0
1987					
Mean of Indicators	12.7	14.8	15.0	14.4	14.2
Mean of Controls	13.0	14.8	15.3	15.0	14.6
1988					
Mean of Indicators	13.5	14.1	14.7	14.9	14.3
Mean of Controls	13.3	14.4	18.1	14.6	15.1
1989					
Mean of Indicators	14.4	14.3	--	--	14.4
Mean of Controls	14.0	14.4	--	--	14.2
All Pre-Operational					
Mean of Indicators	14.9	16.0	16.8	16.2	15.9
Mean of Controls	15.1	16.4	17.4	16.5	16.2

Table 3.13-3

Facility Related Dose using ANSI/HPS N13.37-2014 Methodology

		Baseline, B_Q	Quarterly Ave. 2020 Quarterly Monitoring Data, M_Q (mR/qtr)				Quarterly Facility Dose $F_Q = M_Q - (B_Q+MDD_Q)$				Annual Baseline, B_A	2020 Annual TLD Data, M_A	Annual Facility Dose $F_A = M_A - (B_A+MDD_A)$
		mR	1	2	3	4	1	2	3	4	mR	mR	
TL-01	Brimmer's Lane	18.6	18.0	18.3	17.3	18.6	ND	ND	ND	ND	74.5	72.2	ND
TL-02	Landing Road	13.8	13.0	14.0	13.2	14.3	ND	ND	ND	ND	55.1	54.6	ND
TL-03	Glade Path	14.9	14.0	14.4	13.2	15.2	ND	ND	ND	ND	59.5	56.8	ND
TL-04	Island Path	15.9	15.7	15.6	14.6	16.2	ND	ND	ND	ND	63.7	62.0	ND
TL-05	Harbor Road	14.6	14.2	15.3	13.4	15.2	ND	ND	ND	ND	58.1	58.1	ND
TL-06	Barge Landing	14.6	14.3	14.5	13.5	15.3	ND	ND	ND	ND	58.6	57.5	ND
TL-07	Cross Road	12.5	12.8	13.2	11.7	13.8	ND	ND	ND	ND	50.0	51.5	ND
TL-08	Farm Lane	15.8	15.1	15.7	14.3	15.8	ND	ND	ND	ND	63.1	60.9	ND
TL-09	Farm Lane	16.3	16.4	16.4	15.4	17.2	ND	ND	ND	ND	65.3	65.3	ND
TL-10	Site Boundary	17.2	14.8	16.7	14.9	18.6	ND	ND	ND	ND	68.7	65.0	ND
TL-11	Site Boundary	17.5	17.2	19.3	16.9	19.9	ND	ND	ND	ND	69.9	73.3	ND
TL-12	Site Boundary	18.2	18.4	19.0	18.2	20.0	ND	ND	ND	ND	72.6	75.6	ND
TL-13	Inside Site Boundary	19.2	18.1	19.3	17.1	19.1	ND	ND	ND	ND	77.0	73.5	ND
TL-14	Trailer Park	15.9	16.1	17.1	15.0	16.6	ND	ND	ND	ND	63.5	64.7	ND
TL-15	Brimmer's Lane	18.8	18.5	18.6	18.8	19.9	ND	ND	ND	ND	75.0	75.8	ND
TL-16	Brimmer's Lane	16.2	16.4	17.7	16.0	16.9	ND	ND	ND	ND	64.8	66.9	ND
TL-17	South Road	16.3	14.6	15.4	15.0	15.4	ND	ND	ND	ND	65.2	60.4	ND
TL-18	Mill Road	15.5	17.8	17.8	17.5	18.1	ND	ND	ND	ND	65.0	71.2	ND
TL-19	Appledore Avenue	15.5	15.0	15.5	14.9	16.2	ND	ND	ND	ND	62.1	61.6	ND
TL-20	Ashworth Avenue	17.5	16.9	17.3	15.4	17.5	ND	ND	ND	ND	70.2	67.0	ND
TL-21	Route 1A	16.6	17.4	17.8	16.8	18.7	ND	ND	ND	ND	66.3	70.7	ND
TL-22	Cable Avenue	16.3	16.0	16.0	15.3	16.8	ND	ND	ND	ND	65.4	64.1	ND
TL-23	Ferry Road	15.7	15.5	15.8	14.9	16.4	ND	ND	ND	ND	62.7	62.7	ND

Table 3.13-3 (Continued)

Facility Related Dose using ANSI/HPS N13.37-2014 Methodology

		Baseline B_Q	Quarterly Ave. 2020 Quarterly Monitoring Data, M_Q (mR/qtr)				Quarterly Facility Dose $F_Q = M_Q - (B_Q+MDD_Q)$				Annual Baseline B_A	2020 Annual TLD Data, M_A	Annual Facility Dose $F_A = M_A - (B_A+MDD_A)$
		mR	1	2	3	4	1	2	3	4	mR	mR	
TL-24	Ferry Lots Lane	16.0	17.5	17.4	17.5	17.9	ND	ND	ND	ND	63.9	70.2	ND
TL-25	Elm Street	15.6	15.5	16.2	19.8	25.2	ND	ND	ND	9.65	62.3	76.8	14.6[1]
TL-26	Route 107A	15.4	15.0	14.8	14.4	16.7	ND	ND	ND	ND	61.8	61.0	ND
TL-27	Highland Street	16.1	15.7	16.0	15.4	17.4	ND	ND	ND	ND	64.3	64.5	ND
TL-28	Route 150	16.2	17.4	17.6	17.1	18.2	ND	ND	ND	ND	64.9	70.3	ND
TL-29	Frying Pan Lane	15.4	14.7	16.1	15.5	16.7	ND	ND	ND	ND	61.6	62.9	ND
TL-30	Route 27	15.7	16.4	17.3	16.7	18.3	ND	ND	ND	ND	62.9	68.7	ND
TL-31	Alumni Drive	14.3	14.1	14.6	14.1	15.7	ND	ND	ND	ND	57.0	58.5	ND
TL-32	SB Elementary School	17.8	18.4	18.2	17.2	15.0	ND	ND	ND	ND	71.2	68.7	ND
TL-33	Dock Area	21.4	11.8	11.7	10.2	12.1	ND	ND	ND	ND	84.4	45.8	ND
TL-34	Bow Street	19.5	19.5	21.2	20.0	21.6	ND	ND	ND	ND	78.2	82.3	ND
TL-35	Lincoln Ack. School	18.2	17.5	18.4	17.6	19.2	ND	ND	ND	ND	72.6	72.6	ND
TL-36	Route 97(Control)	15.4	14.7	15.5	14.0	15.3	ND	ND	ND	ND	61.9	59.5	ND
TL-37	Plaistow, NH (Control)	18.0	17.4	18.3	17.6	18.7	ND	ND	ND	ND	72.0	72.0	ND
TL-38	Hampstead, NH (Control)	19.8	17.9	19.0	17.6	19.4	ND	ND	ND	ND	79.3	73.9	ND
TL-39	Fremont, NH (Control)	21.3	20.2	21.9	20.3	21.2	ND	ND	ND	ND	85.2	83.6	ND
TL-40	Newmarket, NH (Control)	16.7	16.2	17.5	17.0	17.7	ND	ND	ND	ND	66.9	68.3	ND
TL-41	Portsmouth, NH (Control)	16.9	17.0	17.2	(2)	21.0	ND	ND	ND	ND	67.6	55.2	ND
TL-42	Ipswich, MA (Control)	14.3	14.3	13.5	13.1	15.3	ND	ND	ND	ND	57.2	56.2	ND
TL-44	SB Education Center	14.8	14.5	15.0	14.2	16.3	ND	ND	ND	ND	59.0	60.0	ND

Table 3.13-3 (Continued)

Facility Related Dose using ANSI/HPS N13.37-2014 Methodology

		Baseline B_Q	Quarterly Ave. 2020 Quarterly Monitoring Data, M_Q (mR/qtr)				Quarterly Facility Dose $F_Q = M_Q - (B_Q+MDD_Q)$				Annual Baseline B_A	2020 Annual TLD Data, M_A	Annual Facility Dose $F_A = M_A - (B_A+MDD_A)$
		mR	1	2	3	4	1	2	3	4	mR	mR	
TL-45	Hampton Fire Station	16.9	16.2	16.6	14.9	16.9	ND	ND	ND	ND	67.7	64.7	ND
TL-46	SB Police Station	16.7	16.5	17.6	16.0	17.3	ND	ND	ND	ND	66.7	67.5	ND
TL-47	Route 84	15.6	16.1	16.8	16.2	17.2	ND	ND	ND	ND	62.4	66.4	ND

MDD_Q = 4.55 = minimum differential exposure, quarterly, 3 times 90th percentile S_Q determined from analysis in mR.

MDD_A = 8.97 = minimum differential exposure, annual, 3 times 90th percentile S_A determined from analysis in mR.

B_Q = Quarterly baseline exposure (mR).

M_Q = location's 91 day standard quarterly exposure (mR).

L_Q = Quarterly Investigative Level exposure (mR).

B_A = Quarterly baseline background average exposure (mR).

M_A = Annual monitoring data, determined by summing the quarterly data over all four quarters (mR).

L_A = Annual Investigative Level exposure (mR).

ND = Facility contribution to exposure "Not Detected"

(1) An annual dose of 14.6 mR was calculated for location TL-25 using the ANSI/HPS N13.37-2014 methodology and the baseline values calculated using data from 2004 to 2014. However, this dose was determined not to be facility related due to the distance of this TLD location with respect to the plant (7.6 km) and the lack of any observed dose for TLD locations closer to the plant. The observed dose is likely a result of a change in the environment at the TLD location. Figure 3.10.1 shows a step increase in the quarterly TLD values for this location starting in 2020. For this reason, the location will continue to be monitored and the quarterly and annual baseline values for this location will be adjusted, as necessary.

(2) TLD missing at time of collection

FIGURE 3.6

ENVIRONMENTAL RADIATION MEASUREMENTS (USING TLDs) SEABROOK STATION

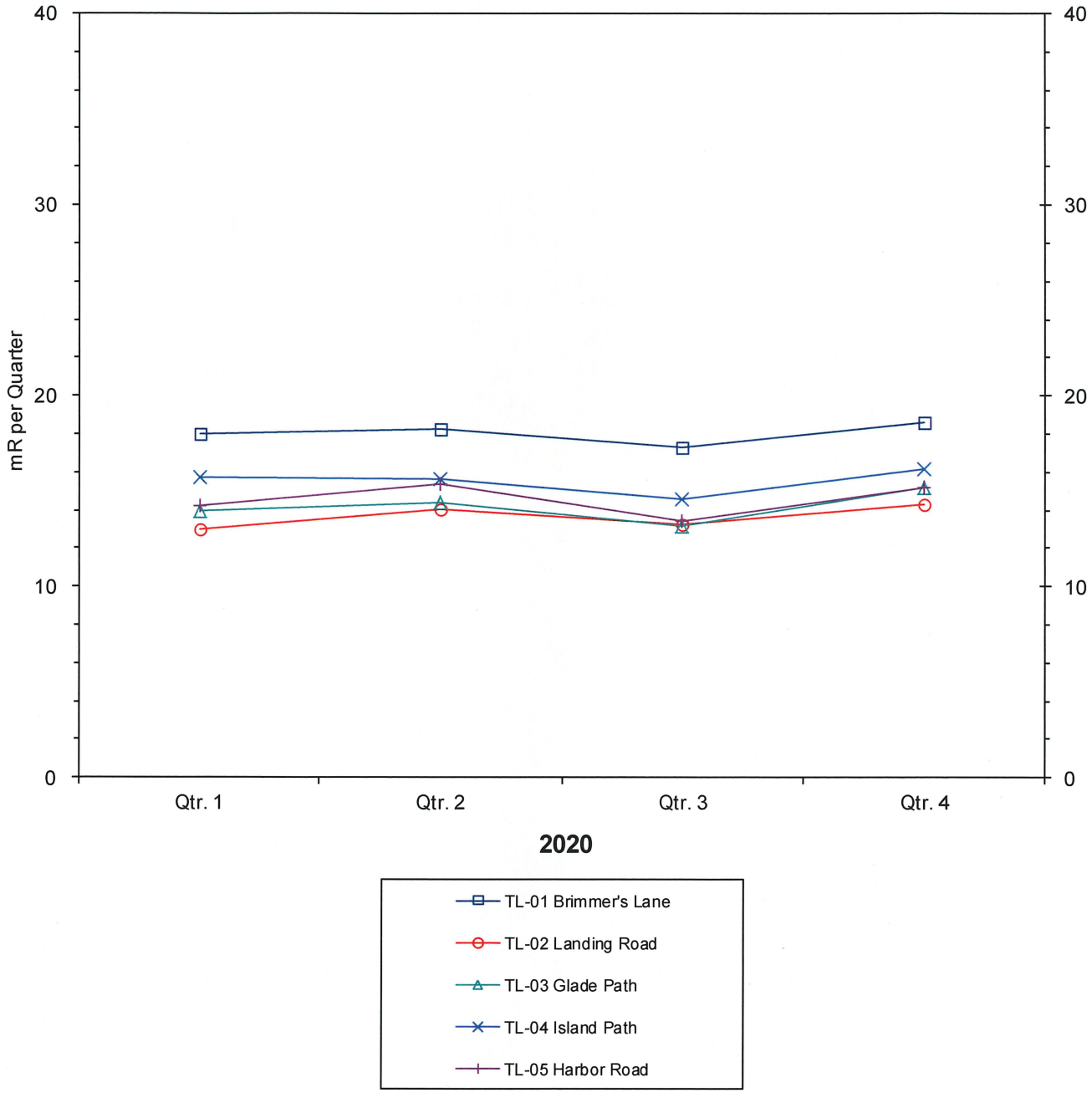


FIGURE 3.6.1

ENVIRONMENTAL RADIATION MEASUREMENTS (USING TLDs)
SEABROOK STATION

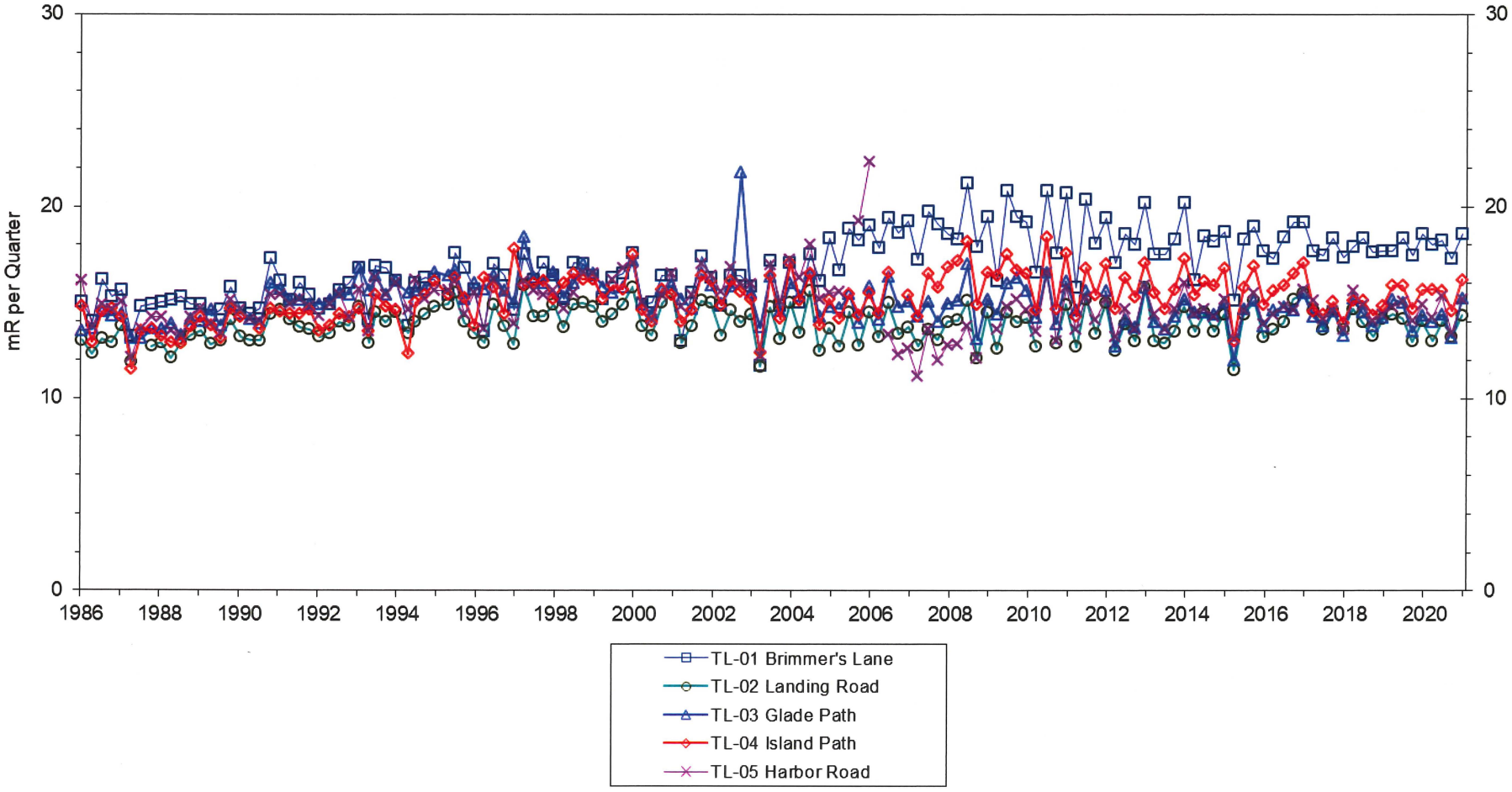


FIGURE 3.7

ENVIRONMENTAL RADIATION MEASUREMENTS (USING TLDs)
SEABROOK STATION

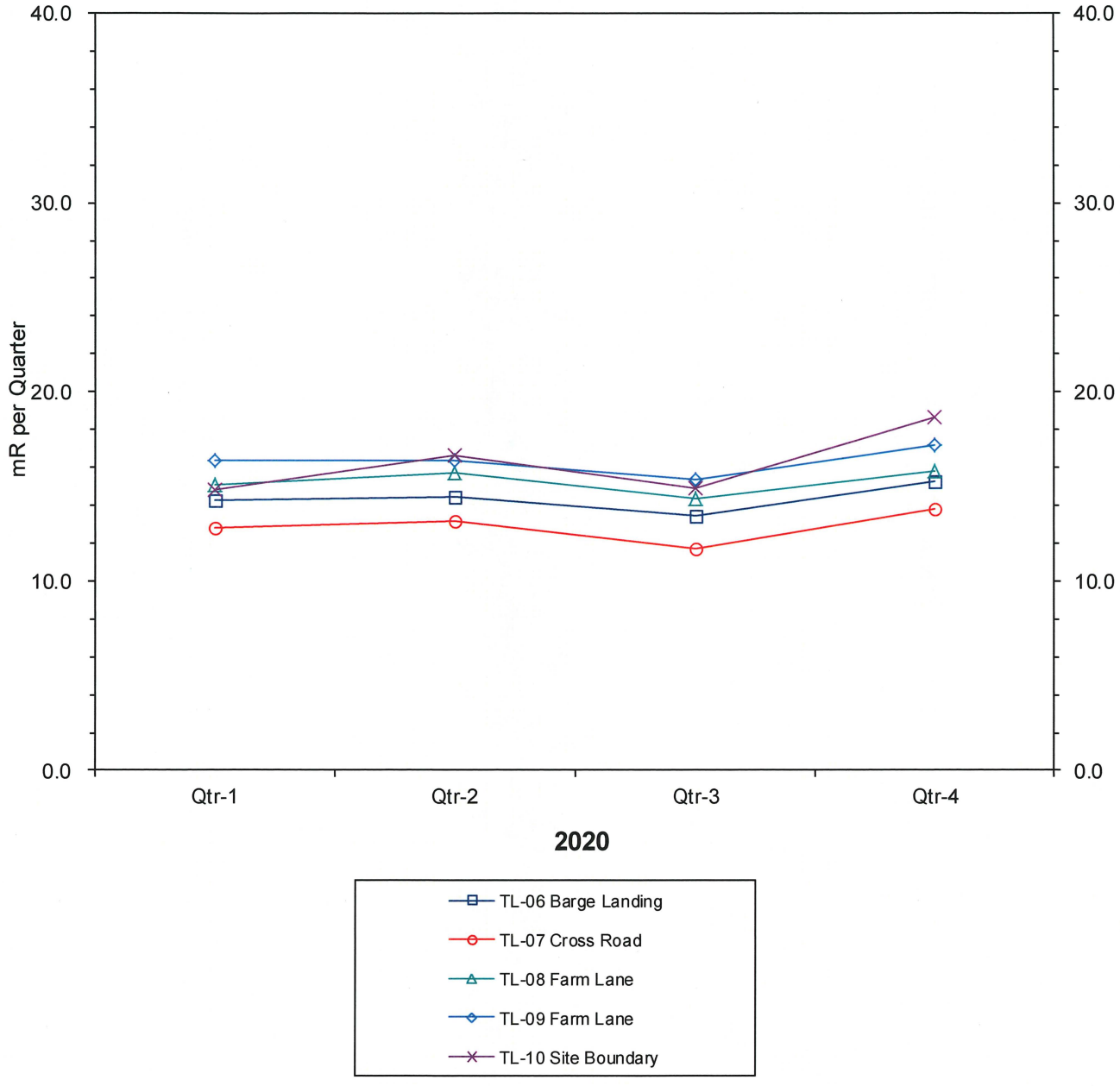


FIGURE 3.7.1

ENVIRONMENTAL RADIATION MEASUREMENTS (USING TLDs)
SEABROOK STATION

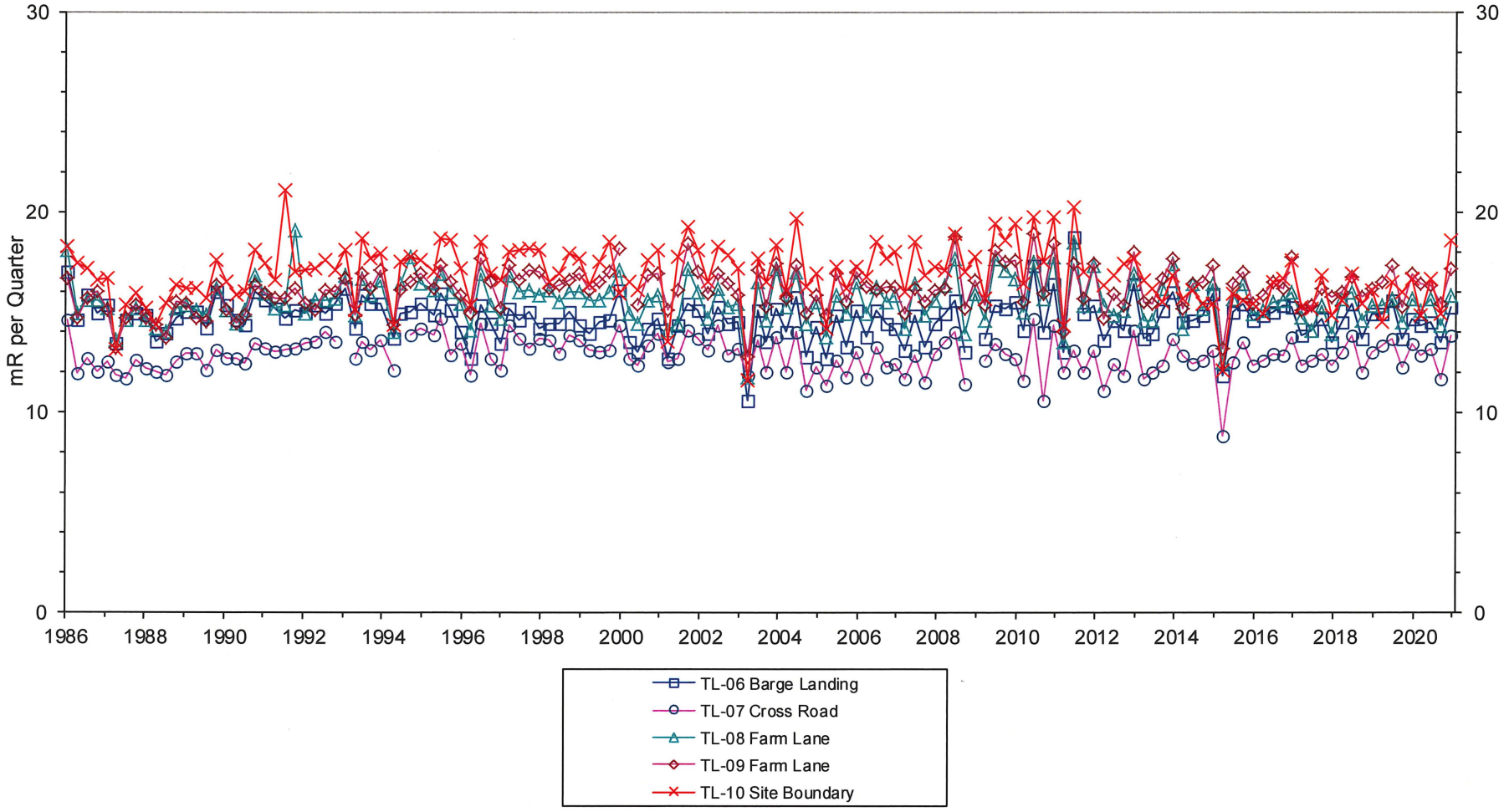


FIGURE 3.8

ENVIRONMENTAL RADIATION MEASUREMENTS (USING TLDs)
SEABROOK STATION

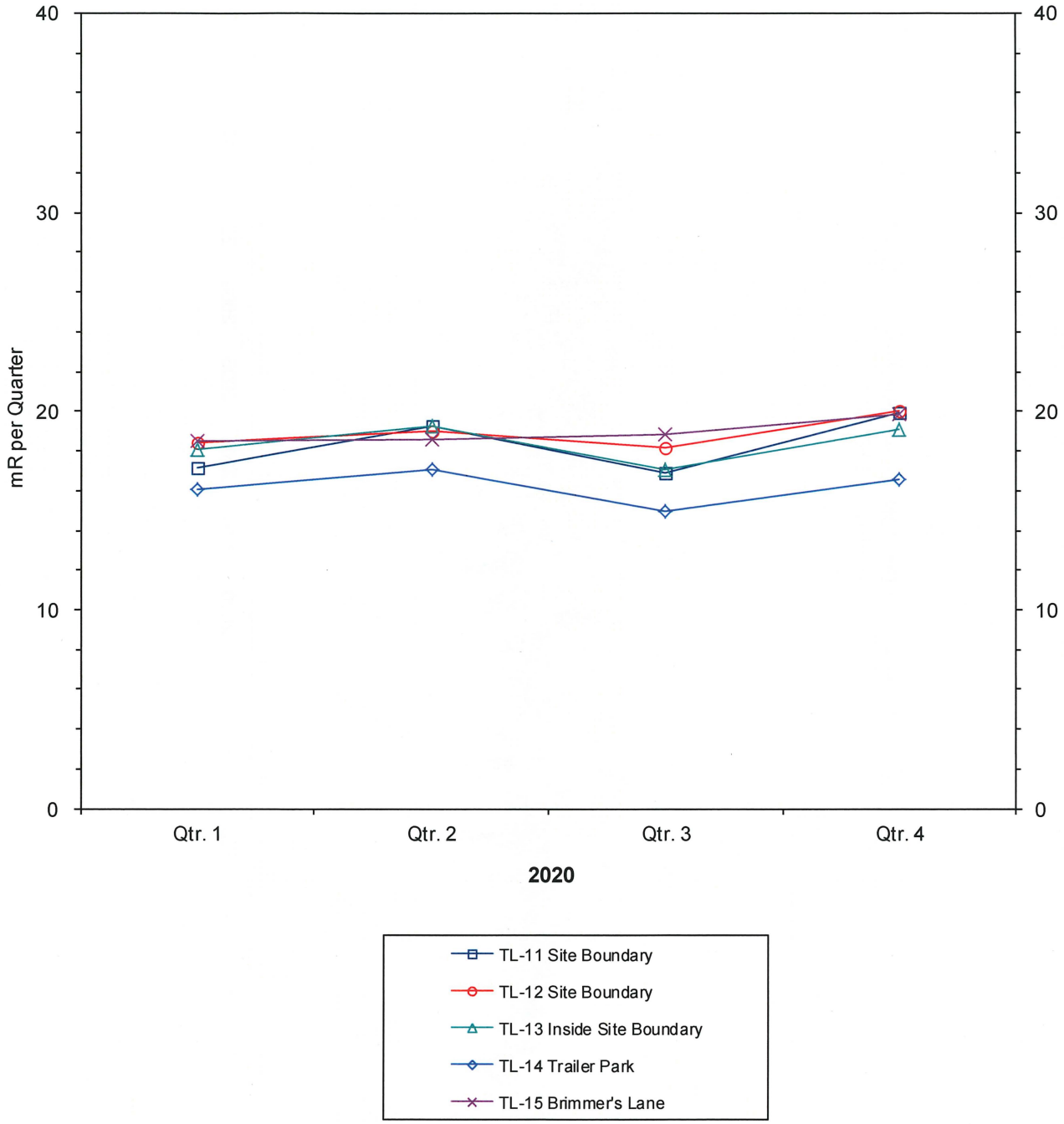


FIGURE 3.8.1

ENVIRONMENTAL RADIATION MEASUREMENTS (USING TLDs)
SEABROOK STATION

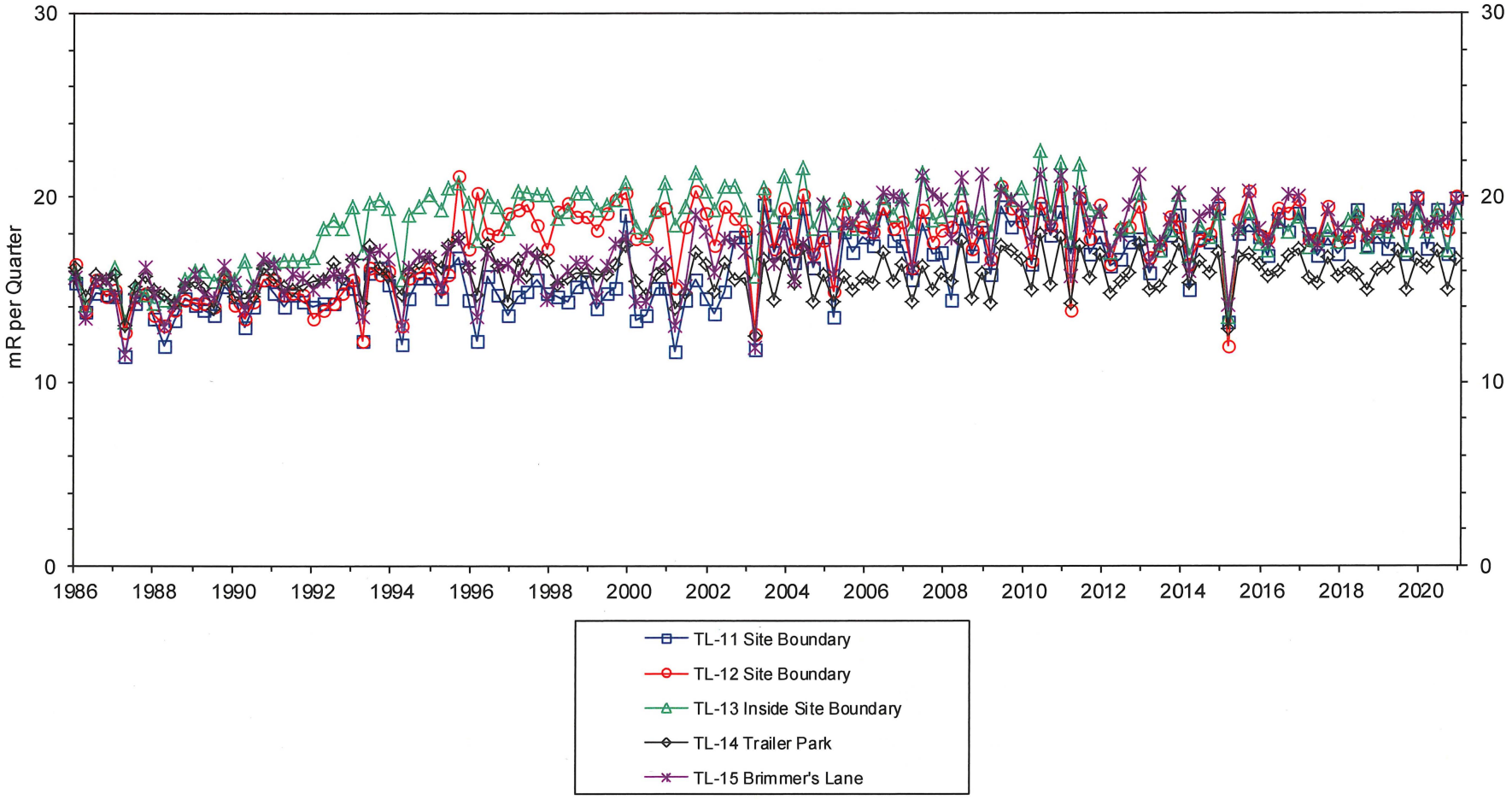


FIGURE 3.9

ENVIRONMENTAL RADIATION MEASUREMENTS (USING TLDs) SEABROOK STATION

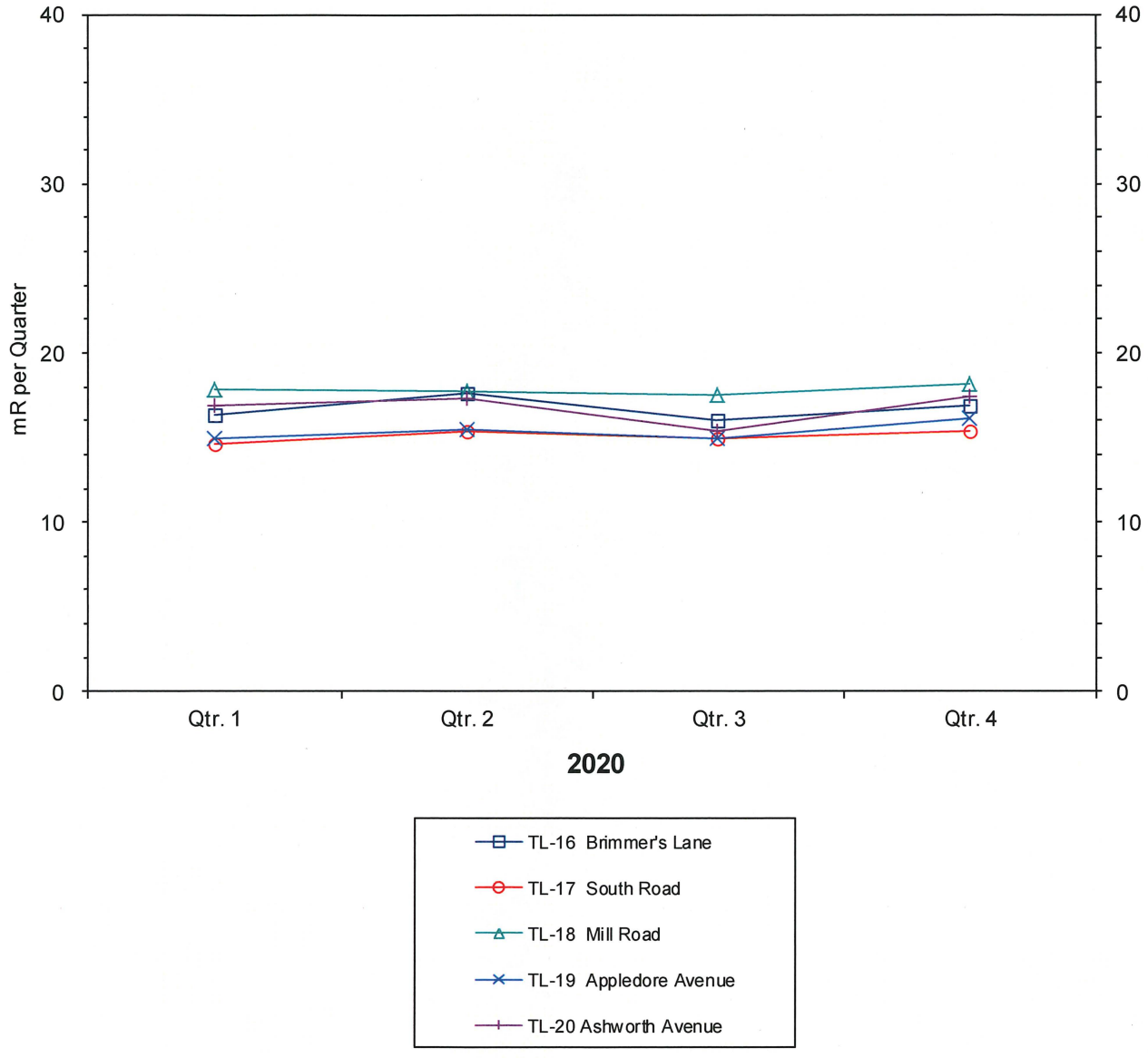


FIGURE 3.9.1

ENVIRONMENTAL RADIATION MEASUREMENTS (USING TLDs) SEABROOK STATION

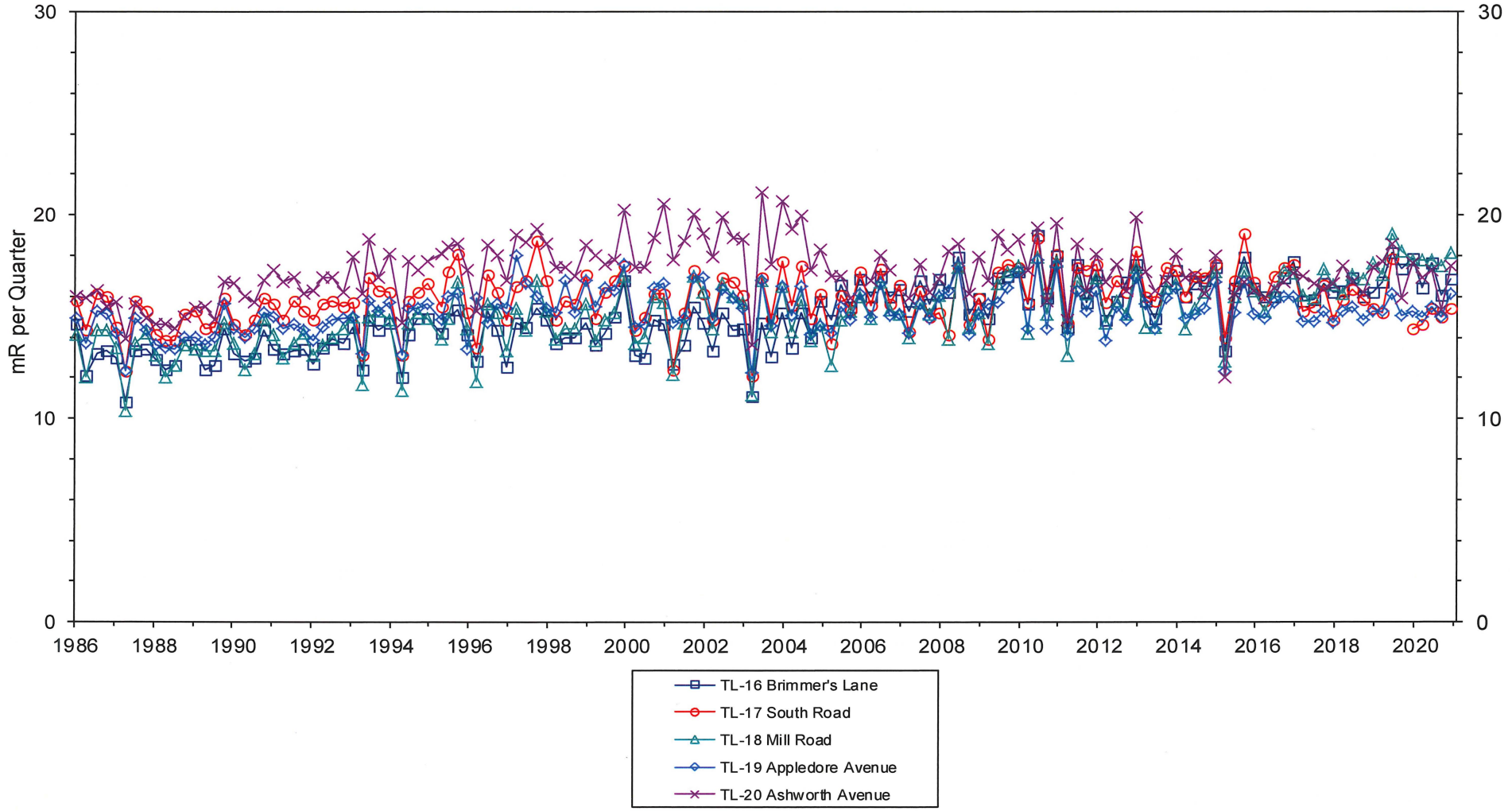


FIGURE 3.10

ENVIRONMENTAL RADIATION MEASUREMENTS (USING TLDs)
SEABROOK STATION

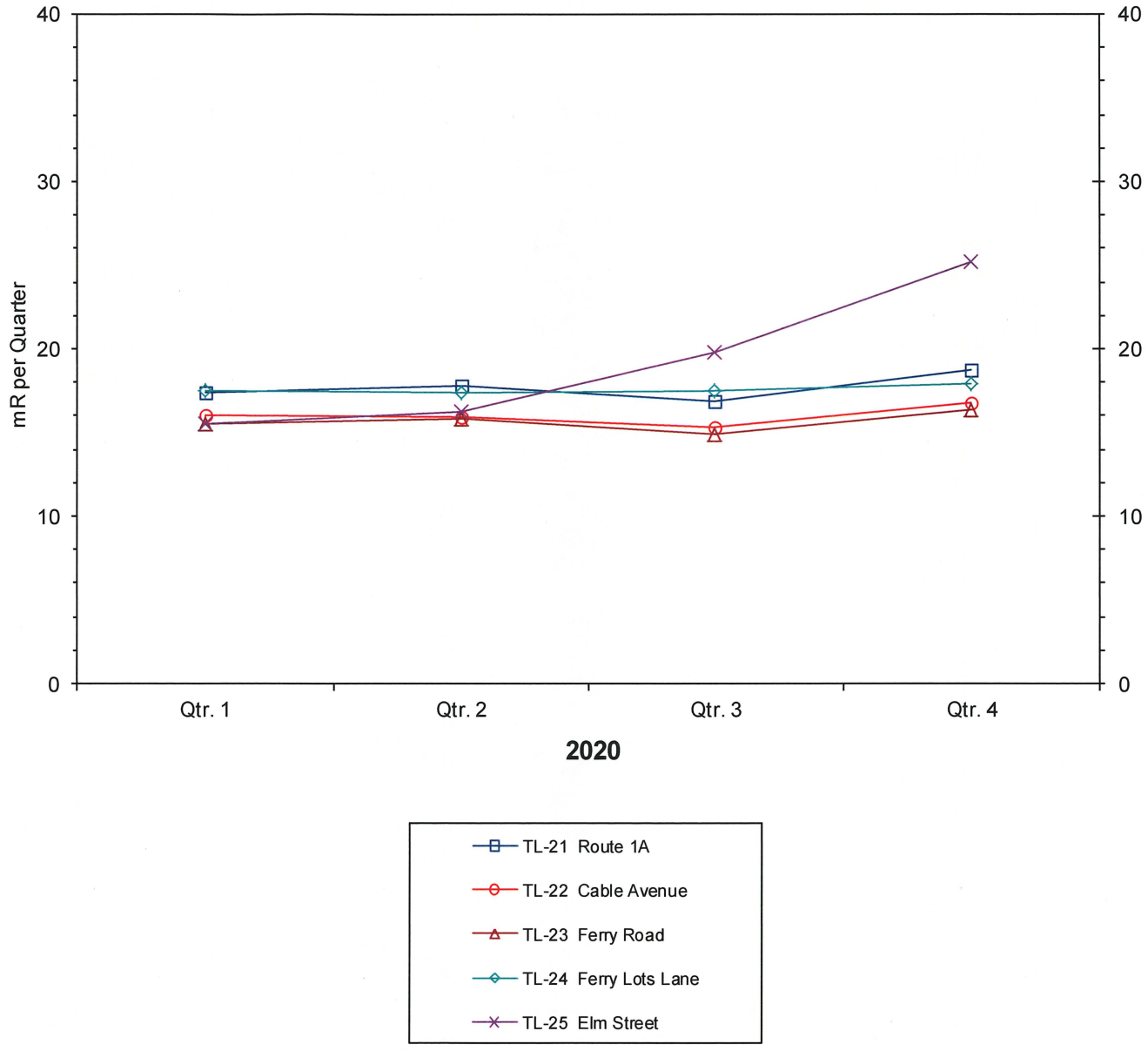


FIGURE 3.10.1

ENVIRONMENTAL RADIATION MEASUREMENTS (USING TLDs)
SEABROOK STATION

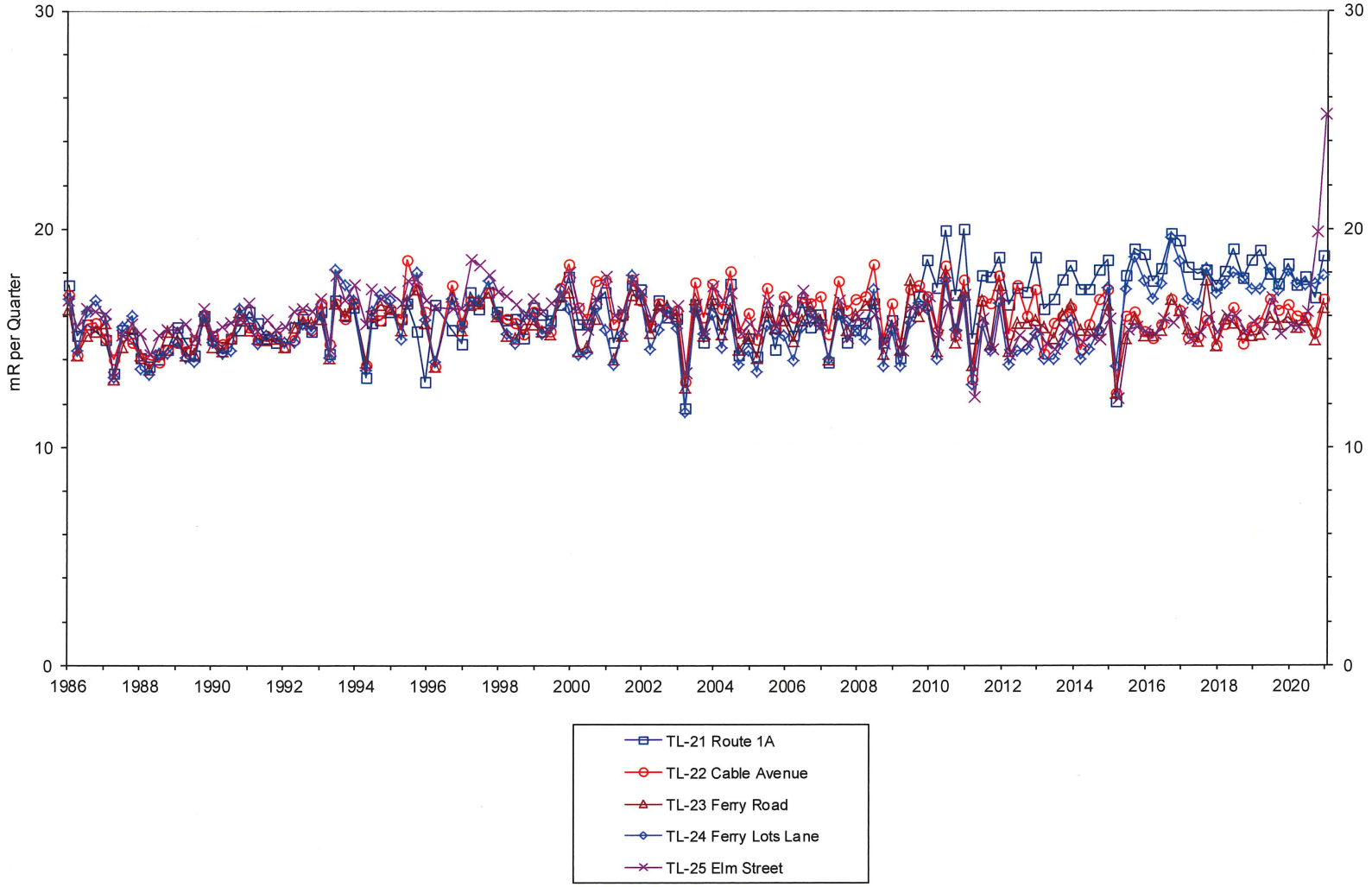


FIGURE 3.11

ENVIRONMENTAL RADIATION MEASUREMENTS (USING TLDs) SEABROOK STATION

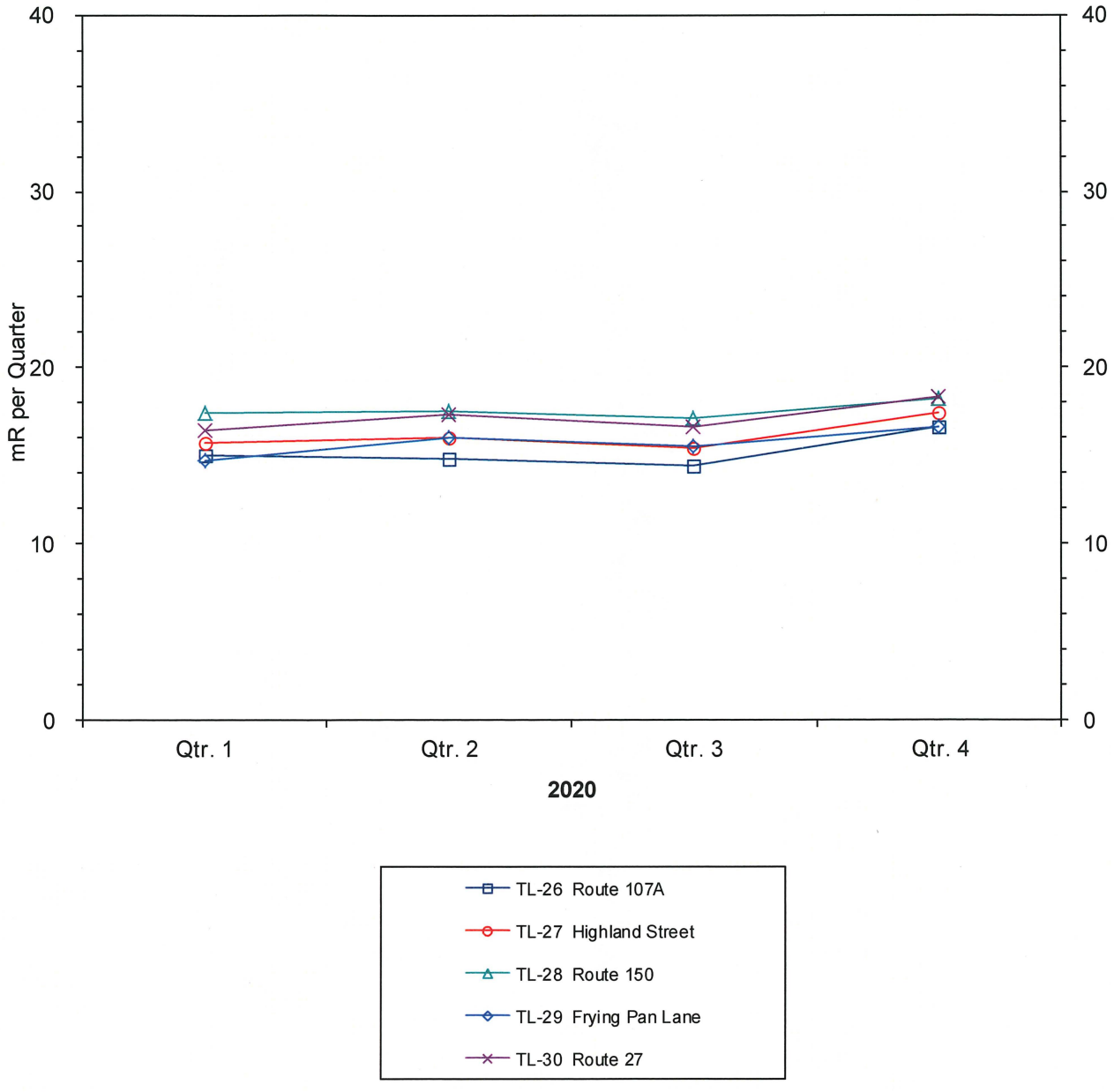


FIGURE 3.11.1

ENVIRONMENTAL RADIATION MEASUREMENTS (USING TLDs)
SEABROOK STATION

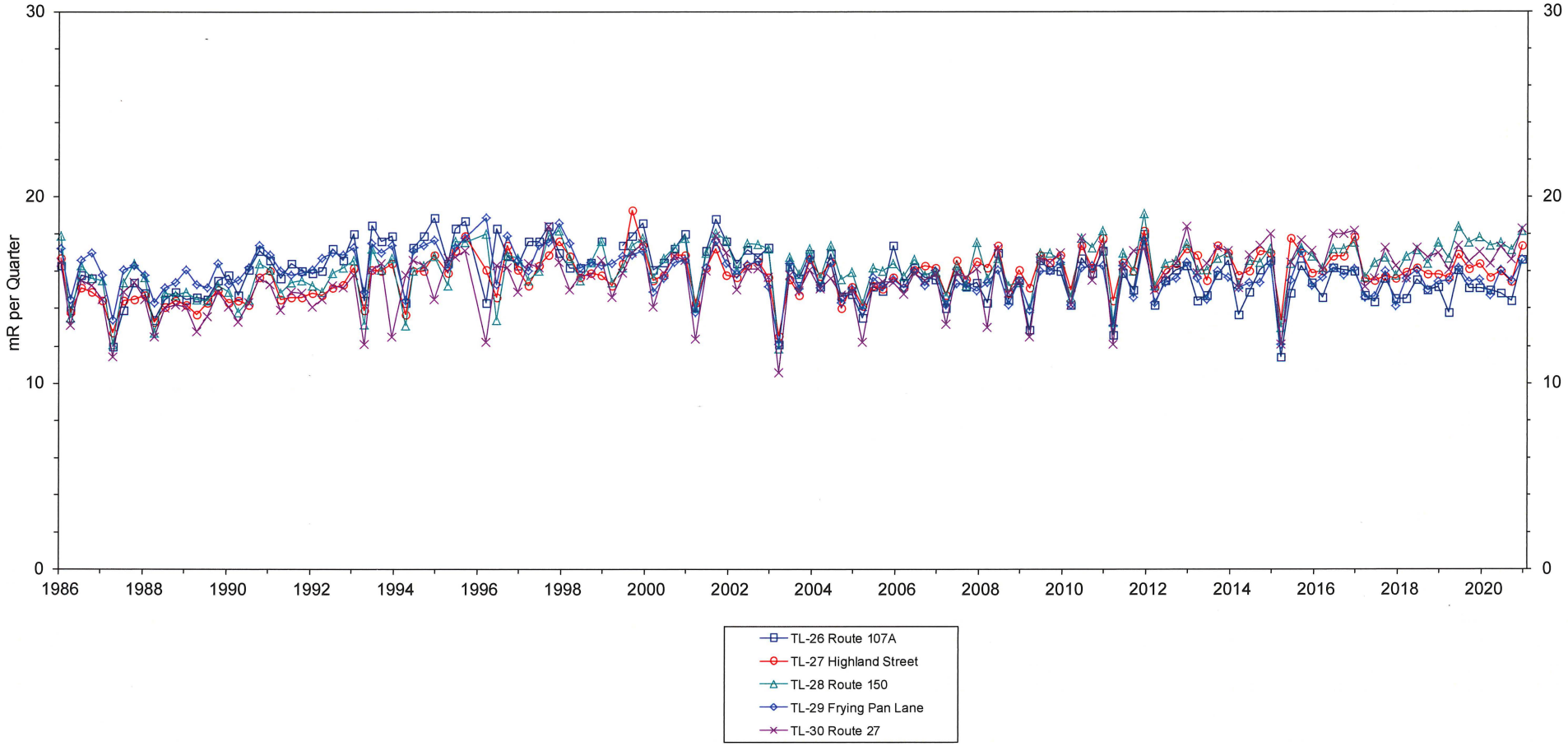


FIGURE 3.12

ENVIRONMENTAL RADIATION MEASUREMENTS (USING TLDs)
SEABROOK STATION

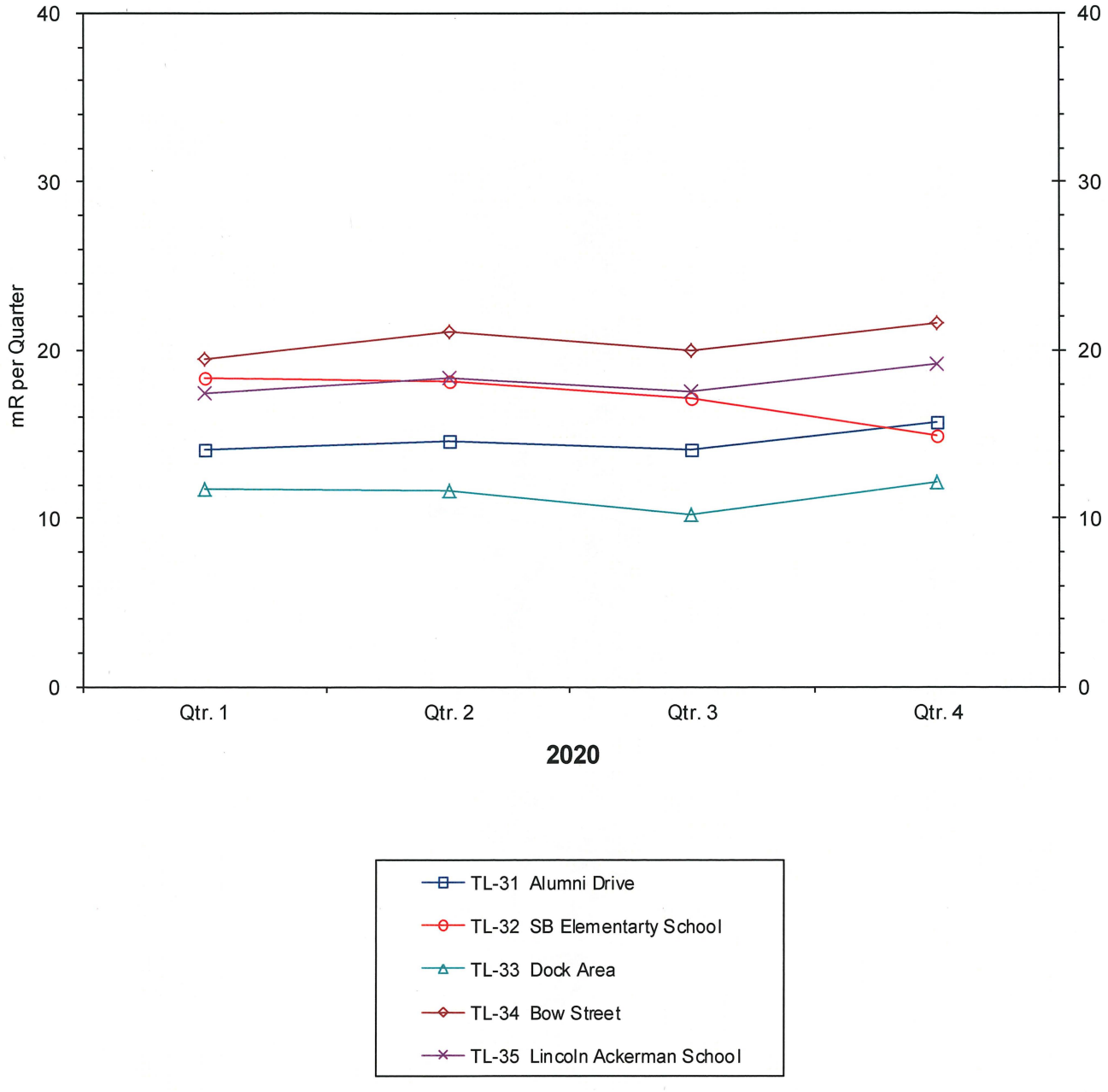


FIGURE 3.12.1

ENVIRONMENTAL RADIATION MEASUREMENTS (USING TLDs)
SEABROOK STATION

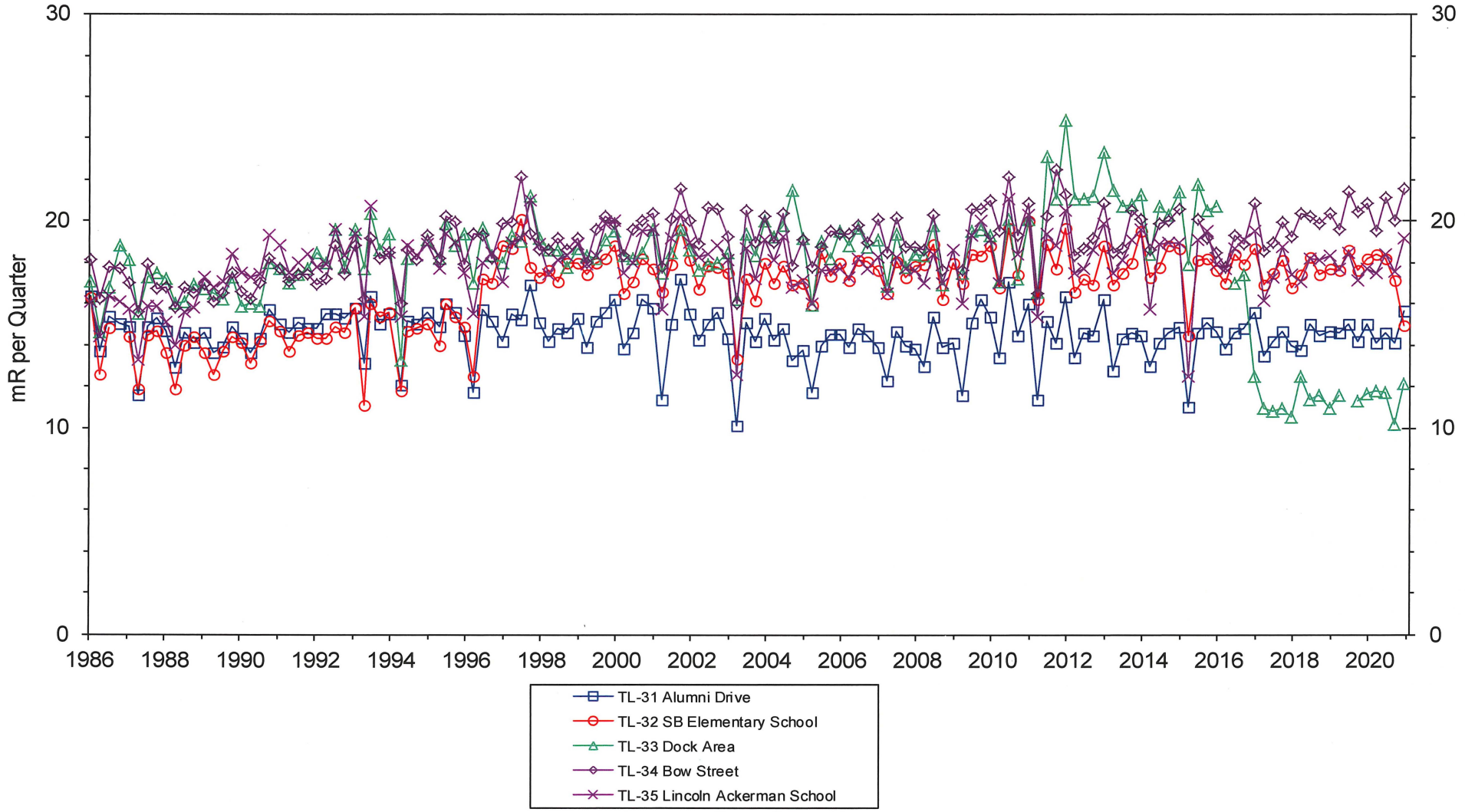


FIGURE 3.13

ENVIRONMENTAL RADIATION MEASUREMENTS (USING TLDs) SEABROOK STATION

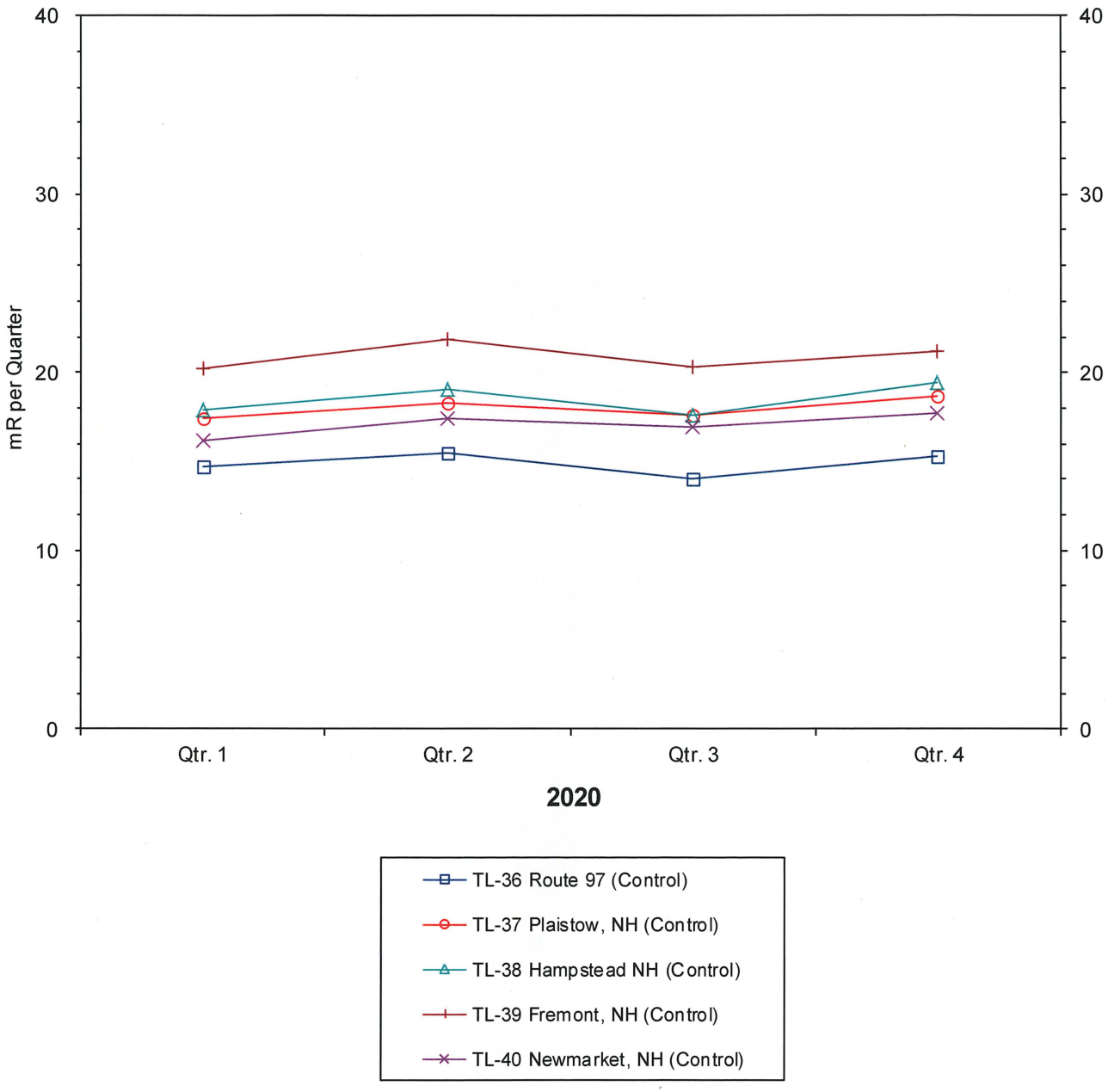


FIGURE 3.13.1

ENVIRONMENTAL RADIATION MEASUREMENTS (USING TLDs)
SEABROOK STATION

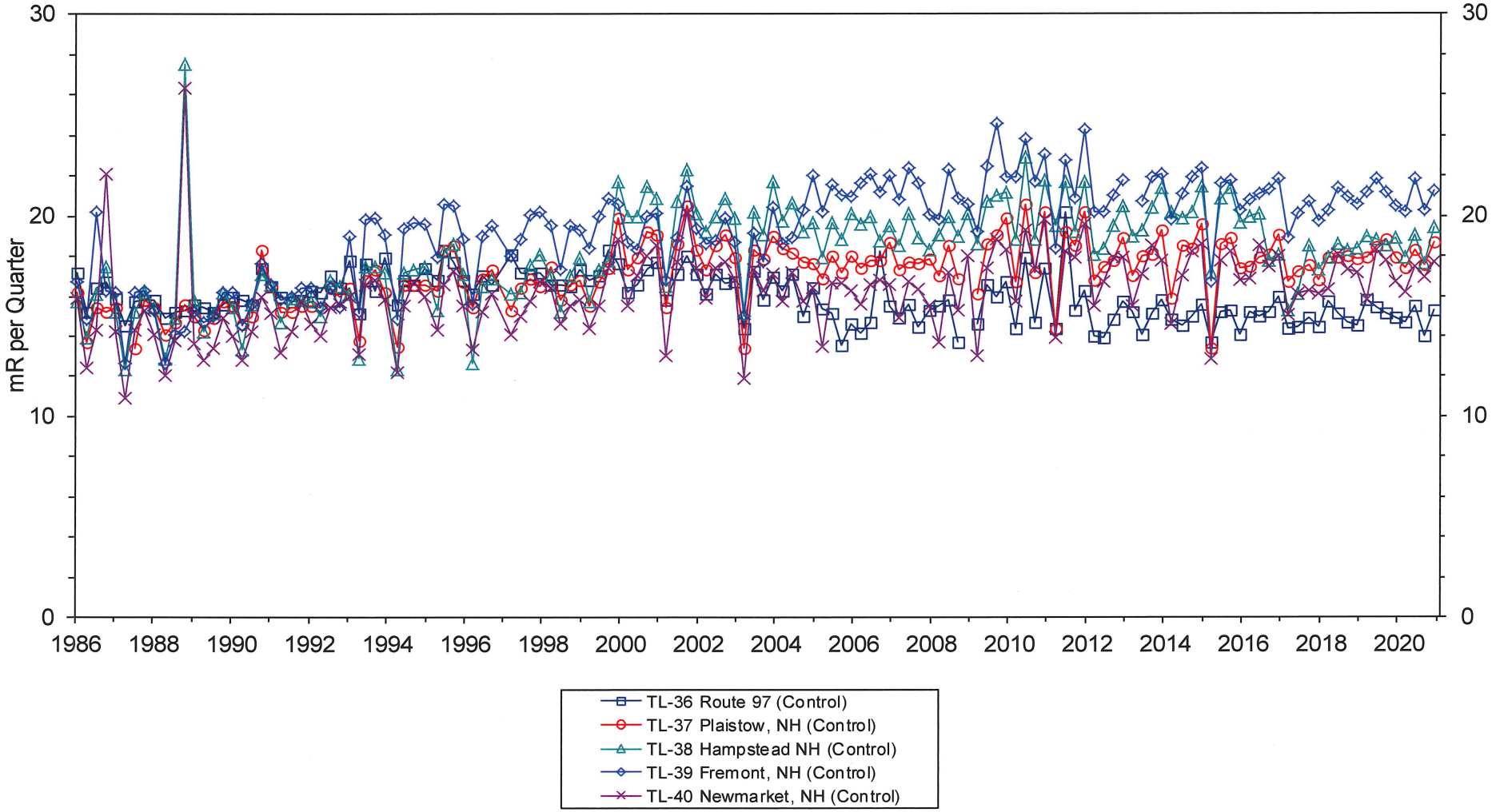


FIGURE 3.14

ENVIRONMENTAL RADIATION MEASUREMENTS (USING TLDs)
SEABROOK STATION

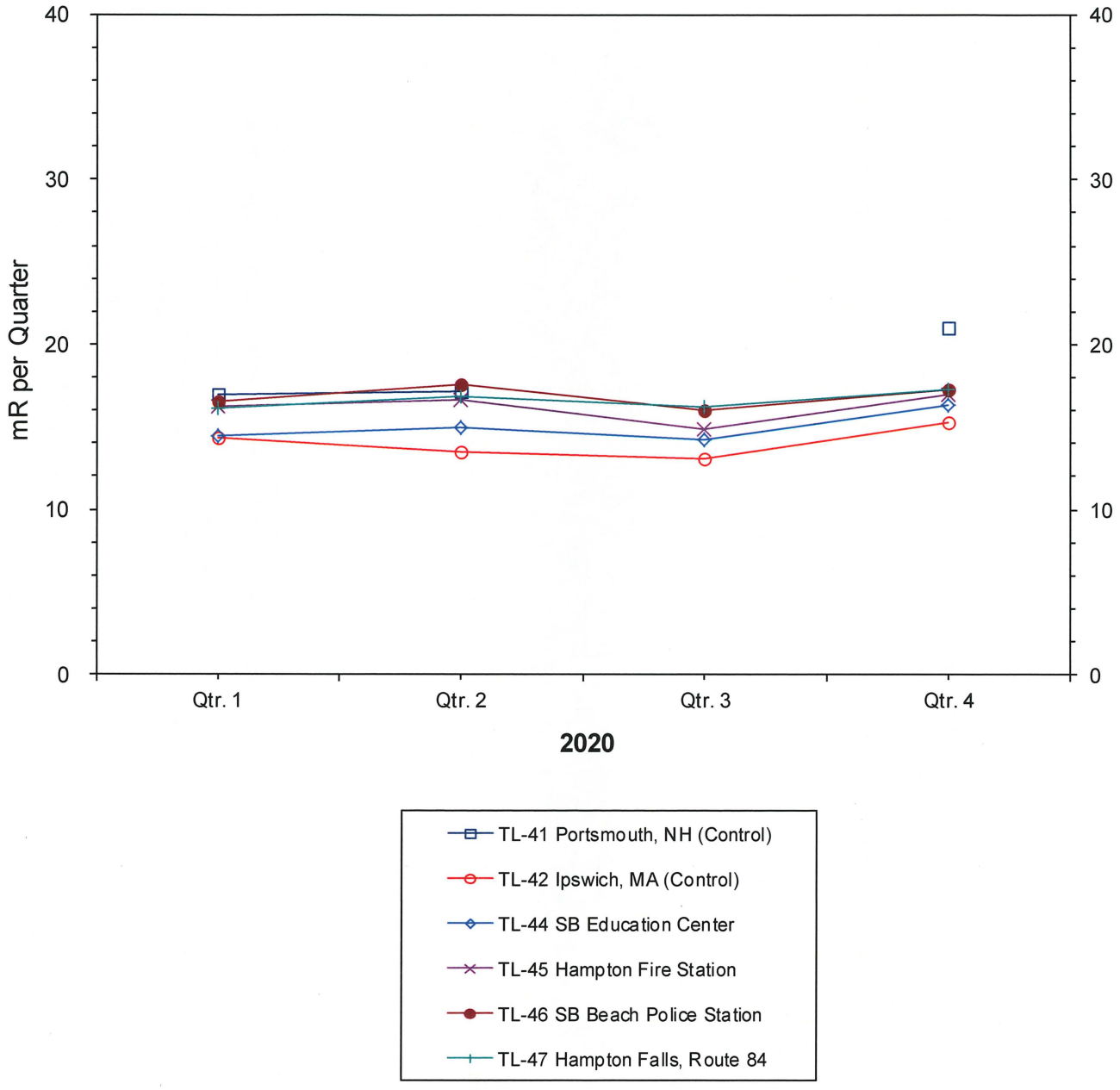
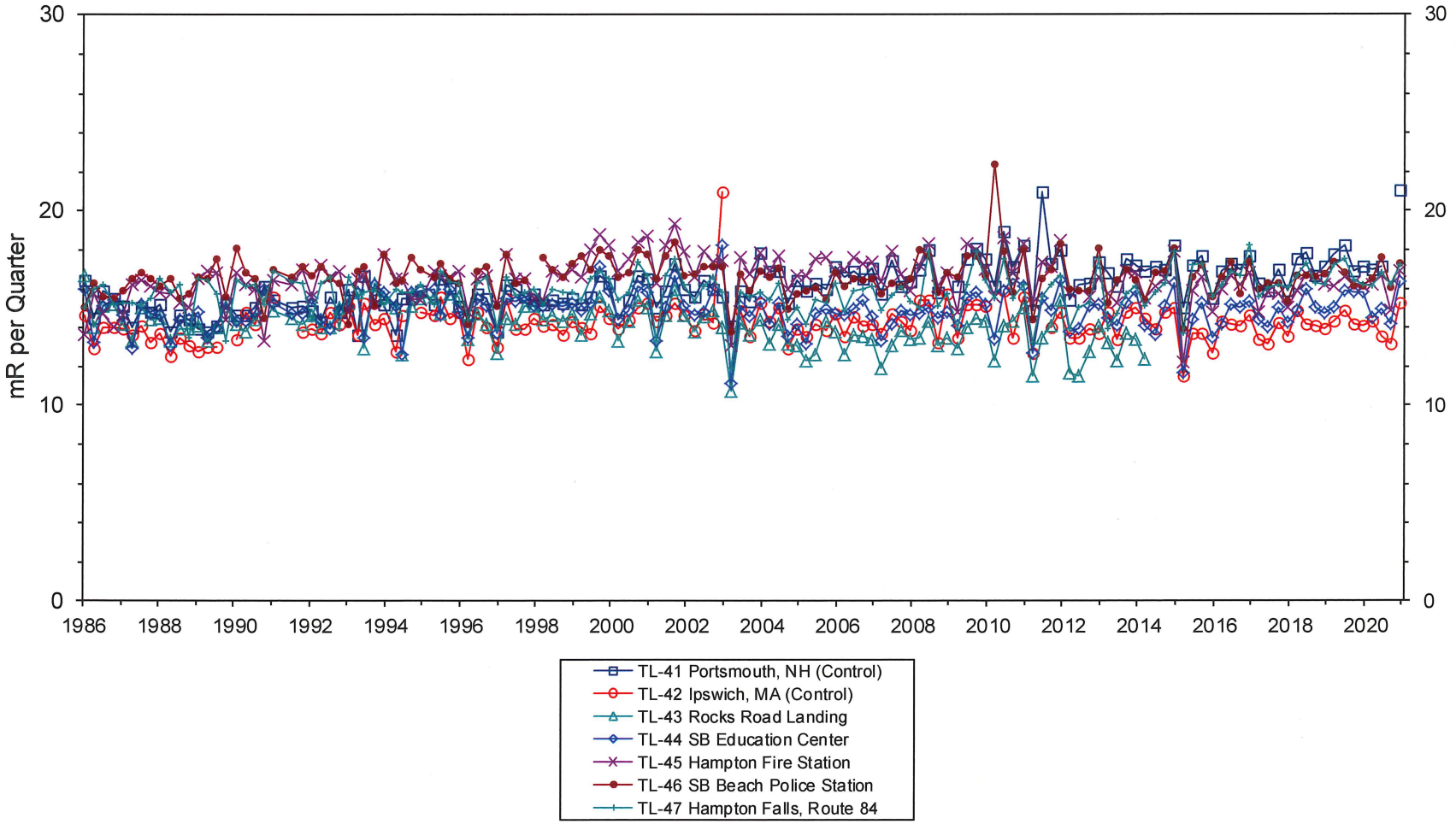


FIGURE 3.14.1

ENVIRONMENTAL RADIATION MEASUREMENTS (USING TLDs)
SEABROOK STATION



4.0 Dry Fuel Storage REMP & Data Summary

The Dry Fuel Storage (DFS) radiological environmental monitoring program required by ODCM Control C.9.4.1 provides representative measurements of direct (including scattered) radiation exposure at those locations that have the highest potential for dose to members of the public resulting from dry fuel storage operations. The design of the storage facility is such that there are no liquid or gaseous effluents released to the environment from DFS and, therefore, no associated exposure pathways for liquids and gases requiring the collection and analysis of such sample media. As a result, only direct (including scattered) radiation from the DFS modules need to be monitored for integrated exposures in areas where doses to members of the public need to be limited.

At locations near the DFS where members of the public might be present (off-site areas near the site boundary and on-site special use locations, i.e., the Science and Nature Center, the new Fitness Center located in the High Rise office building east of the DFS facility and the Firing Range located on the west site boundary), TLDs were placed at least 1 year (4 quarterly measurements) prior to used fuel being placed into storage. The DFS received its first load of fuel for storage on July 28, 2008. A total of 6 fuel canisters were placed in the NUHOMS© Horizontal Storage Modules (HSM) on the DFS pad during 2008 with the last one being loaded on September 4, 2008. A second fuel transfer campaign was conducted during August and September, 2013, with an additional 8 fuel canisters placed into storage, and a third fuel transfer campaign during August – October 2017 with an additional 8 fuel canisters bringing the total to 22 canisters in storage.

The DFS radiological environmental monitoring stations are listed in Table 4.0-1. At the end of 2013, TLD location SB-35, which was located inside the old Fitness Center, and location TL-67 (first quarter of 2014), which was located outside the old Fitness Center south of the DFS, were removed from the program due to the relocation of the fitness center to the High Rise Office Building. TLD locations SB-32 and SB-33 now provide monitoring for the new Fitness Center location. The measurement locations with respect to the Seabrook site area are shown on Figure 4.0.1.

4.1 Direct Radiation from DFS

As with the plant operations TLD program described in Section 3.13, the DFS TLD exposure rates were normalized to a standard 91-day quarter. A summary of the 2020 data for the DFS REMP is shown in Table 4.1-1. Figures 4.1, 4.2 and 4.3 show the quarterly 2020 TLD trend lines for the control and indicator monitoring locations. Figures 4.4, 4.5 and 4.6 provide a comparison of long term trend lines (12 years) for the same control locations, site boundary and special use sites.

Overall, the direct radiation program showed no statistically significant indication of increased direct radiation above the variable background measured exposure rate in unrestricted areas. The 2020 annual mean of all indicator locations for the DFS was 17.2 mR/91-day quarter while the mean of all control locations was 17.4 mR/91-day quarter. There was no notable difference detected in the annual exposure rates in areas were members of the public could occupy (site boundary and inside special use locations) and the control locations. Starting in the 4th quarter of 2013, location TL-67 indicated a notable measurement increase in exposure rate following the expansion of fuel storage in the DFS facility in the third quarter of 2013. However, by late November, 2013, the fitness center operations had been transferred from its original location south of the DFS to the High Rise Office Building east of the DFS, thereby ending use of the original fitness center facility and its parking lot by members of the public.

Starting in 2015, an additional analytical method was implemented to evaluate the TLD measurements. Using the method described in ANSI/HPS N13.37-2014, quarterly and annual baseline dose for each DFS TLD location was determined using appropriate statistical analytical methods considering data from 2004 through 2014. Quarterly and annual dose for 2020 was compared to baseline values to determine if an Investigation Level had been exceeded for evaluation of potential dose to a member of the public. An Investigation Level is considered to be exceeded under the following conditions:

$$\text{Quarterly: If } M_Q > (B_Q + MDD_Q), \text{ then } F_Q = M_Q - B_Q$$

Where:

M_Q is the normalized quarterly field measurement result
B_Q is the quarterly baseline background dose
MDD_Q is the quarterly minimum differential dose and
F_Q is the quarterly facility related dose

or: Annually: If $M_A > (B_A + MDD_A)$, then $F_A = M_A - B_A$

Where:

M_A is the sum of the four normalized quarterly measurement values
B_A is the annual baseline background dose
MDD_A is the annual minimum differential dose
F_A is the annual facility related dose

Table 4.1-2 summarizes the evaluation of the TLD measurements using the methodology described in ANSI/HPS N13.37-2014. As noted in Table 4.1-2, TLD location SB-33 (High-Rise Building 1st floor, Fitness Center) was found to have a calculated annual facility related dose of 12.6 mR when comparing the measured TLD value against the annual baseline values. However, as this is an onsite fitness center under Station control, an annual occupancy factor for this location of 0.0416 (1 hour per day x 7 days a week x 52 weeks per year / 8760 hours) can be applied. This results in an annual dose of 0.5 mR.

Any sample collection and analysis deviations from the ODCM required program, or reportable concentrations that may have occurred during the year are described in Section 5.

Figure 4.0.1
Dry Fuel Storage TLD Environmental Monitoring Locations

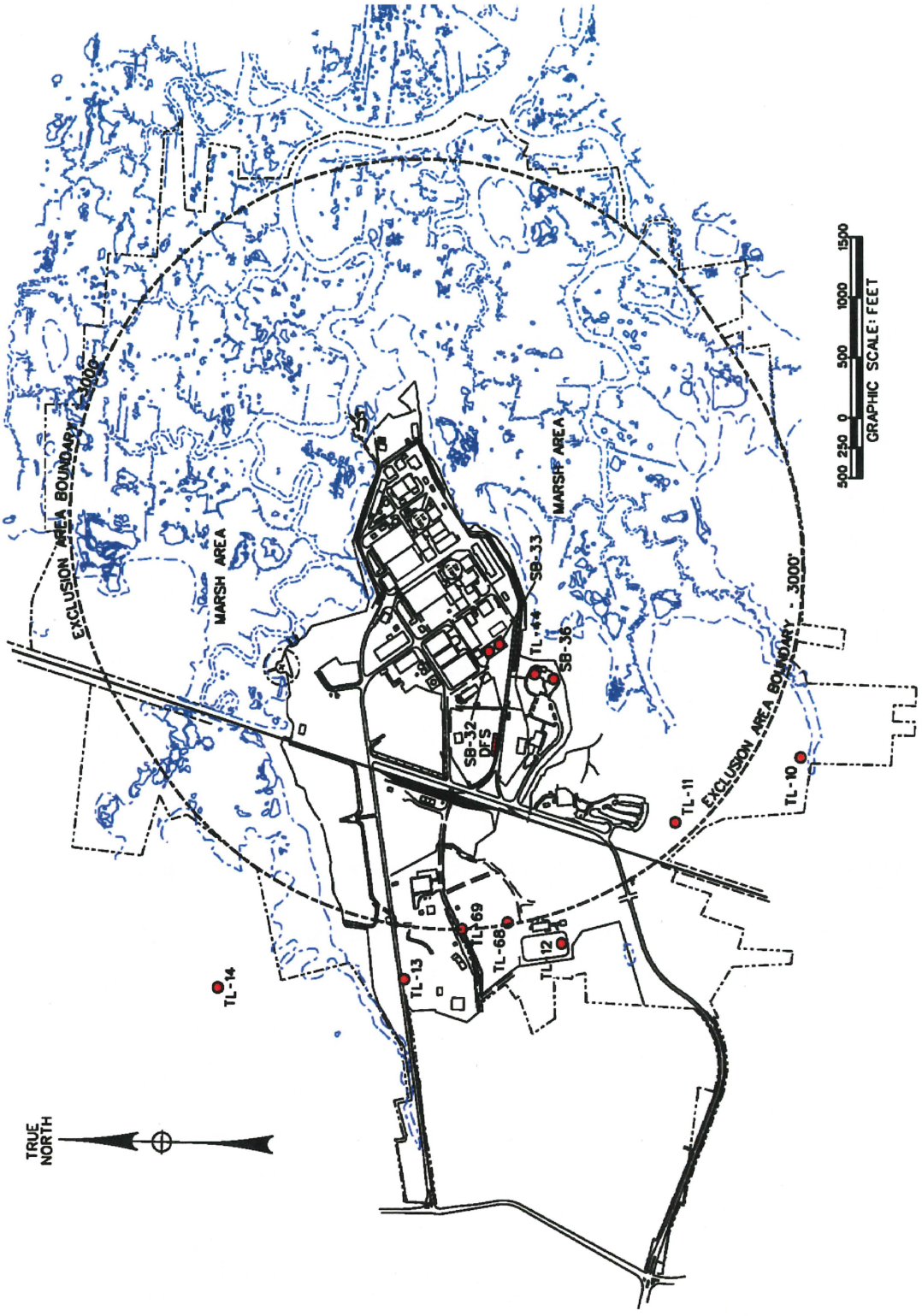


Table 4.0-1

Dry Fuel Storage (DFS) TLD Monitoring Locations

Site Designation Code	TLD Sample Location Description[3]	Distance From DFS Pad (km)	Direction From DFS Pad
TL-44	On-site, outside Science & Nature Center [1][2]	0.21	ESE
SB-36	On-site, inside Science & Nature Center	0.24	SE
SB-32	High-Rise Building, 3rd Floor[1]	0.23	E
SB-33	High-Rise Building, 1st Floor (new Fitness Center)[1]	0.23	E
TL-68	Nearby site boundary (firing range) to DFS	0.45	W
TL-69	Nearby site boundary (Rocks Rd) to DFS	0.47	W
TL-10	Site Boundary Fence [2]	0.77	S
TL-11	Site Boundary Fence [2]	0.52	SSW
TL-12	Site Boundary fence [2]	0.53	WSW
TL-13	Inside Site Boundary [2]	0.61	WNW
TL-14	Trailer Park, Seabrook [2]	0.94	NW
TL-36	Rt 97, Georgetown (Control) [2]	22	SSW
TL-37	Plaistow, NH (Control) [2]	21	WSW
TL-38	Hampstead, NH (Control) [2]	27	W
TL-39	Fremont, NH (Control) [2]	27	WNW
TL-40	Newmarket, NH (Control) [2]	22	NNW
TL-41	Portsmouth, NH (Control) [1][2]	22	NNE
TL-42	Ipswich, MA (Control) [1][2]	22	SSE

(1) This location is not part of the required DFS radiological monitoring program as defined in Table A.9.4-1 of the Seabrook ODCM.

(2) Shared environmental monitoring locations for both Seabrook Station REMP and DFS monitoring.

(3) TL-67 and SB-35 locations were removed in 2014 due to relocation of the Fitness Center to the High Rise office building.

Table 4.1-1

DFS Environmental TLD Measurements
Net Exposures in mR/Standard Quarter (91 days)

2020

Sta. No.	Description	1st Quarter Exp.	1st Quarter S.D.	2nd Quarter Exp.	2nd Quarter S.D.	3rd Quarter Exp.	3rd Quarter S.D.	4th Quarter Exp.	4th Quarter S.D.	Qtr Ave Exp.
TL-44	Outside Science & Nature C.(1)	14.5	0.6	15.0	0.7	14.2	0.6	16.3	1.0	15.0
SB-36	Inside Science & Nature C.	16.9	0.8	16.9	0.7	15.4	0.7	18.0	0.5	16.8
SB-32	High-Rise 3rd Floor (1)	14.4	0.7	14.9	0.7	14.7	0.8	15.3	0.6	14.8
SB-33	High-Rise 1st Fl.(Fitness Cntr)(1)	20.1	0.9	20.9	0.7	19.2	0.9	21.5	1.0	20.4
TL-68	Nearby Site Boundary to DFS	18.5	0.9	18.7	0.8	18.3	0.9	19.8	0.8	18.8
TL-69	Nearby Site Boundary to DFS	15.2	0.9	14.9	0.8	14.4	0.9	16.1	0.8	15.2
TL-10	Site Boundary Fence (2)	14.8	0.8	16.7	0.5	14.9	0.9	18.6	1.2	16.3
TL-11	Site Boundary Fence (2)	17.2	0.8	19.3	1.0	16.9	1.0	19.9	0.9	18.3
TL-12	Site Boundary Fence (2)	18.4	0.9	19.0	0.9	18.2	0.8	20.0	0.8	18.9
TL-13	Inside Site Boundary (2)	18.1	0.7	19.3	0.6	17.1	0.8	19.1	0.8	18.4
TL-14	Trailer Park Seabrook (2)	16.1	0.6	17.1	0.6	15.0	0.8	16.6	0.8	16.2
TL-36	Rt 97, Georgetow n (control)(2)	14.7	0.5	15.5	0.6	14.0	0.7	15.3	0.7	14.9
TL-37	Plaistow , NH (Control)(2)	17.4	0.7	18.3	0.7	17.6	0.9	18.7	0.7	18.0
TL-38	Hampstead, NH (Control)(2)	17.9	0.8	19.0	0.6	17.6	0.9	19.4	0.7	18.5
TL-39	Fremont, NH (Control)(2)	20.2	0.8	21.9	0.6	20.3	0.9	21.2	0.8	20.9
TL-40	New market, NH (Control)(2)	16.2	0.8	17.5	0.7	17.0	0.8	17.7	0.8	17.1
TL-41	Portsmouth, NH (Control)(1)(2)	17.0	0.7	17.2	0.7		(3)	21.0	1.3	18.4
TL-42	Ipsw ich, MA (Control)(1)(2)	14.3	0.7	13.5	0.6	13.1	0.6	15.3	1.1	14.1
	Mean of Indicators	16.7		17.5		16.2		18.3		17.2
	Mean of Controls	16.8		17.6		16.6		18.4		17.4

(1) This location is not part of the DFS required program defined by the ODCM.

(2) Shared environmental monitoring locations for both plant REMP and DFS monitoring.

(3) TLD missing at time of collection.

Table 4.1-2

DFS Facility Related Dose using ANSI/HPS N13.37-2014 Methodology

		Quarterly Ave. Baseline, B_Q	2020 Quarterly Monitoring Data, M_Q (mR/qtr)				Quarterly Facility Dose $F_Q = M_Q - (B_Q+MDD_Q)$				Annual Baseline, B_A	2020 Annual TLD Data, M_A	Annual Facility Dose $F_A = M_A - (B_A+MDD_A)$
		mR	1	2	3	4	1	2	3	4	mR	mR	
TL-44	On-site, outside Science & Nature Center	14.8	14.5	15.0	14.2	16.3	ND	ND	ND	ND	59.0	60.0	ND
SB-36	On-site, inside Science & Nature Center	16.2	16.9	16.9	15.4	18.0	ND	ND	ND	ND	64.7	67.3	ND
SB-32	High-Rise Building, 3rd floor	14.0	14.4	14.9	14.7	15.3	ND	ND	ND	ND	55.7	59.4	ND
SB-33	High-Rise Building 1st floor, Fitness Center	17.5	20.1	20.9	19.2	21.5	ND	ND	ND	ND	69.2	81.8	12.6[1]
TL-68	Nearby site boundary (firing Range)	17.7	18.5	18.7	18.3	19.8	ND	ND	ND	ND	70.8	75.2	ND
TL-69	Nearby site boundary (Rocks Rd)	14.6	15.2	14.9	14.4	16.1	ND	ND	ND	ND	58.2	60.5	ND
TL-10	Site Boundary	17.2	14.8	16.7	14.9	18.6	ND	ND	ND	ND	68.7	65.0	ND
TL-11	Site Boundary	17.5	17.2	19.3	16.9	19.9	ND	ND	ND	ND	69.9	73.3	ND
TL-12	Site Boundary	18.2	18.4	19.0	18.2	20.0	ND	ND	ND	ND	72.6	75.6	ND
TL-13	Inside Site Boundary	19.2	18.1	19.3	17.1	19.1	ND	ND	ND	ND	77.0	73.5	ND
TL-14	Trailer Park	15.9	16.1	17.1	15.0	16.6	ND	ND	ND	ND	63.5	64.7	ND
TL-36	Route 97(Control)	15.4	14.7	15.5	14.0	15.3	ND	ND	ND	ND	61.9	59.5	ND
TL-37	Plaistow, NH (Control)	18.0	17.4	18.3	17.6	18.7	ND	ND	ND	ND	72.0	72.0	ND
TL-38	Hampstead, NH (Control)	19.8	17.9	19.0	17.6	19.4	ND	ND	ND	ND	79.3	73.9	ND
TL-39	Fremont, NH (Control)	21.3	20.2	21.9	20.3	21.2	ND	ND	ND	ND	85.2	83.6	ND
TL-40	Newmarket, NH (Control)	16.7	16.2	17.5	17.0	17.7	ND	ND	ND	ND	66.9	68.3	ND
TL-41	Portsmouth, NH (Control)	16.9	17.0	17.2		21.0	ND	ND	ND	ND	67.6	55.2	ND
TL-42	Ipswich, MA (Control)	14.3	14.3	13.5	13.1	15.3	ND	ND	ND	ND	57.2	56.2	ND

Table 4.1-2 (cont'd)

DFS Facility Related Dose using ANSI/HPS N13.37-2014 Methodology

MDD_Q = 4.48 = minimum differential exposure, quarterly, 3 times 90th percentile S_Q determined from analysis in mR.

MDD_A = 10.17 = minimum differential exposure, annual, 3 times 90th percentile S_A determined from analysis in mR.

B_Q = Quarterly baseline exposure (mR).

M_Q = location's 91 day standard quarterly exposure (mR).

L_Q = Quarterly Investigative Level exposure (mR).

B_A = Quarterly baseline background average exposure (mR).
M_A = Annual monitoring data, determined by summing the quarterly data over all four quarters (mR).

L_A = Annual Investigative Level exposure (mR).
ND = Facility contribution to exposure "Not Detected"

[1] Note that this location is a fitness center and is not occupied full time. Applying an annual occupancy factor for this location of 0.0416 (1 hour per day x 7 days a week x 52 weeks per year / 8760 hours), results in an annual dose of 0.5 mR.

FIGURE 4.1

DFS CONTROL RADIATION MEASUREMENTS (USING TLDs)
SEABROOK STATION

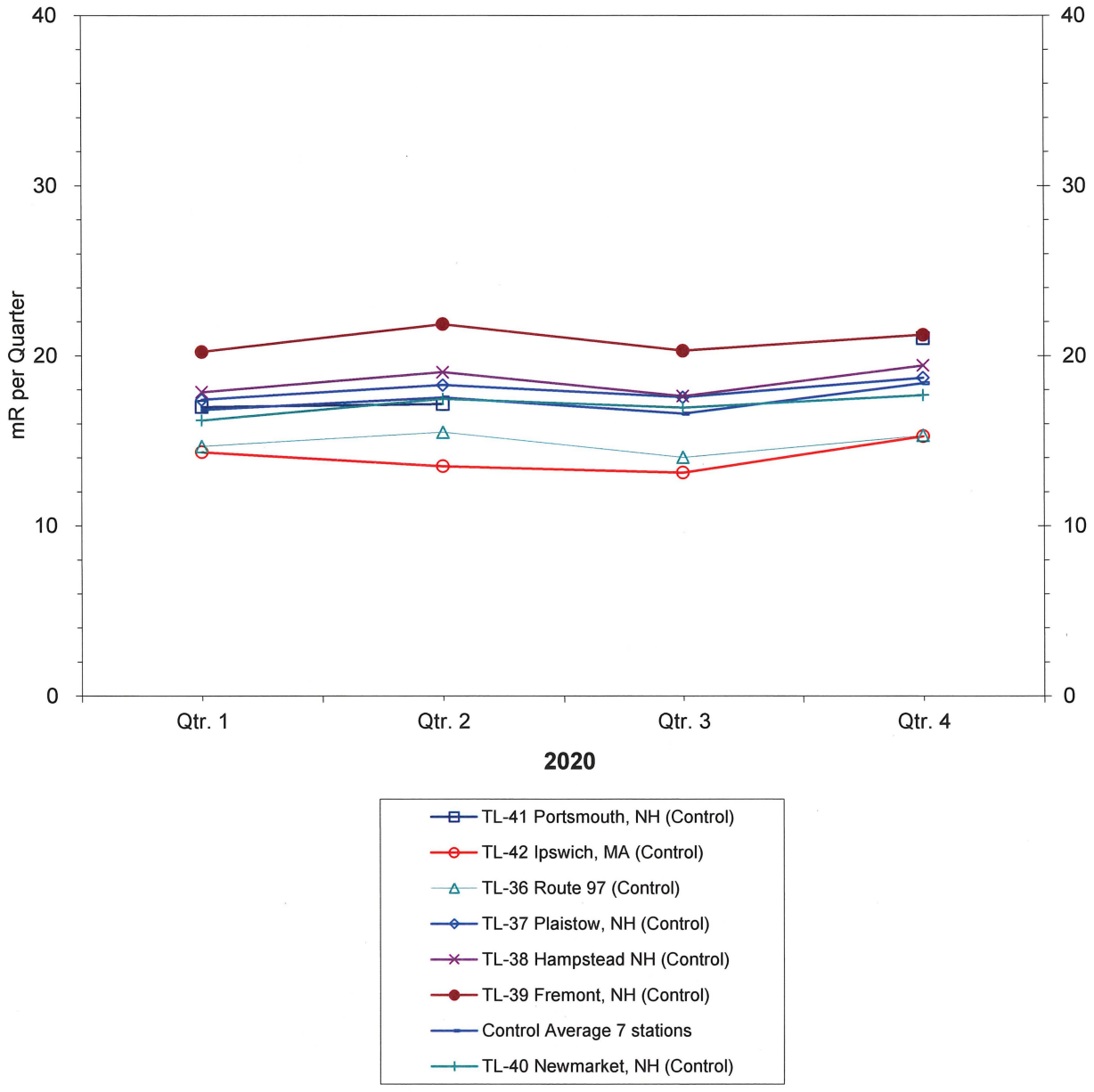


FIGURE 4.2

DFS ENVIRONMENTAL RADIATION MEASUREMENTS (USING TLDs)
SEABROOK STATION

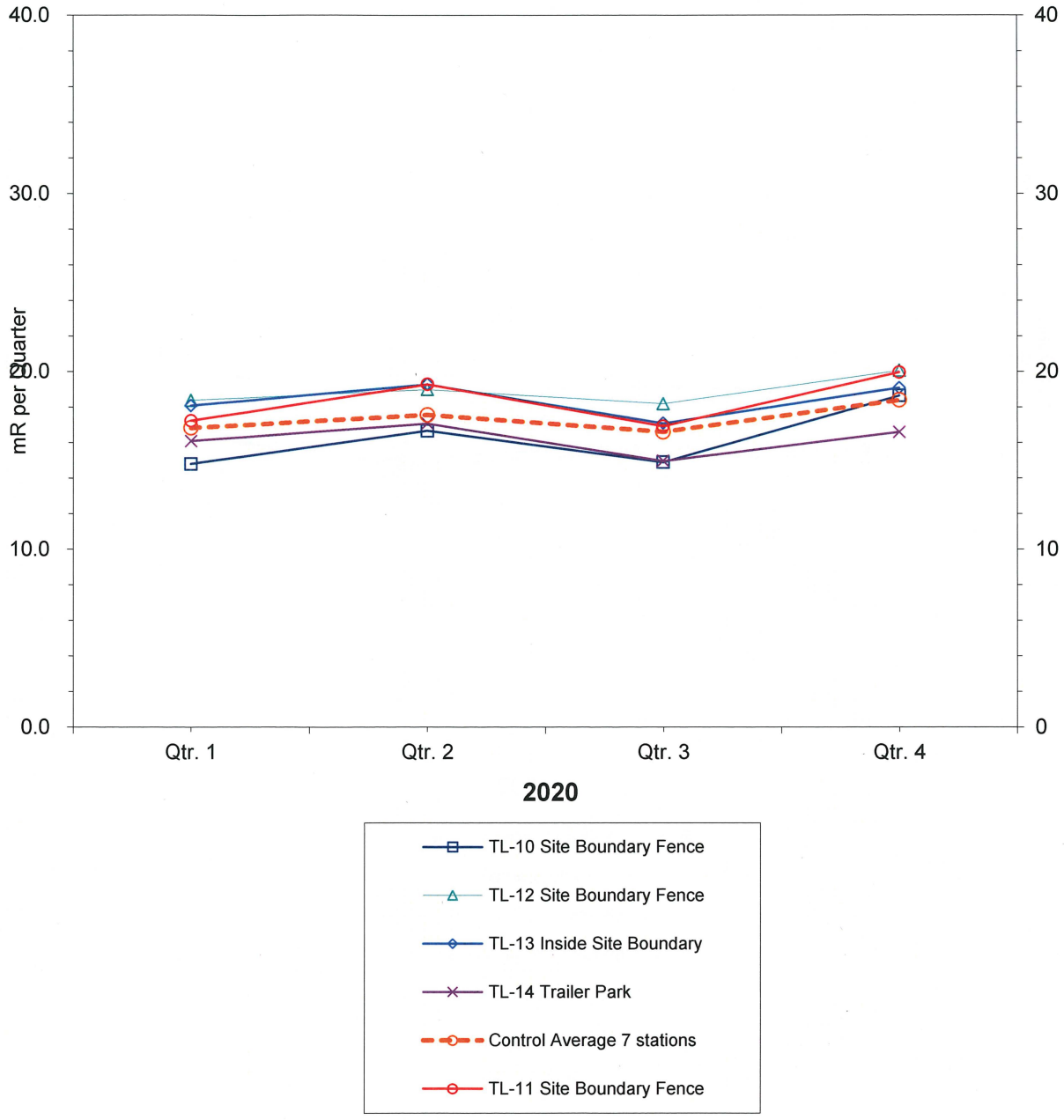


FIGURE 4.3

DFS ENVIRONMENTAL RADIATION MEASUREMENTS (USING TLDs)
SEABROOK STATION

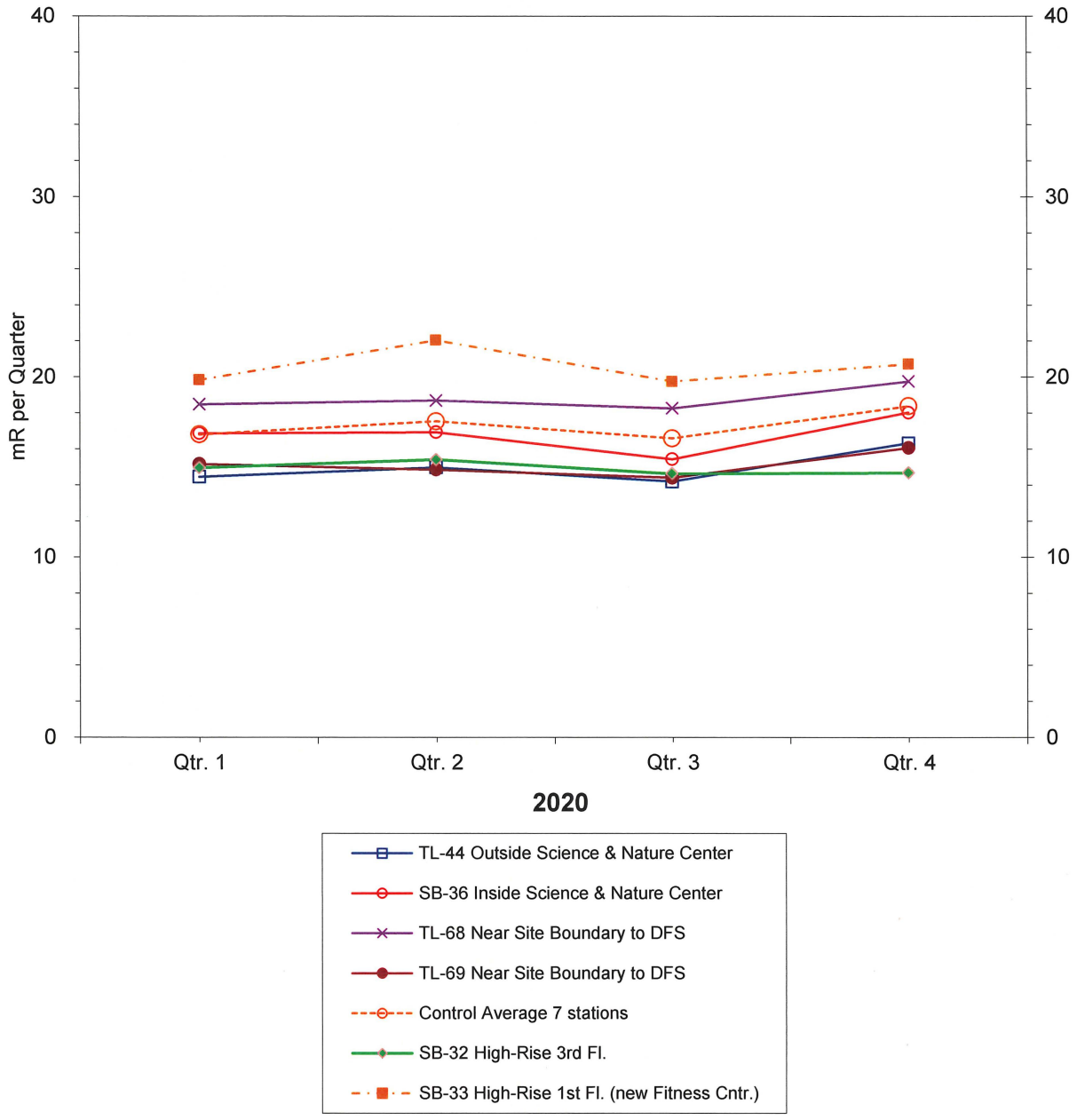


FIGURE 4.4

DFS CONTROL RADIATION MEASUREMENTS (USING TLDs)
SEABROOK STATION

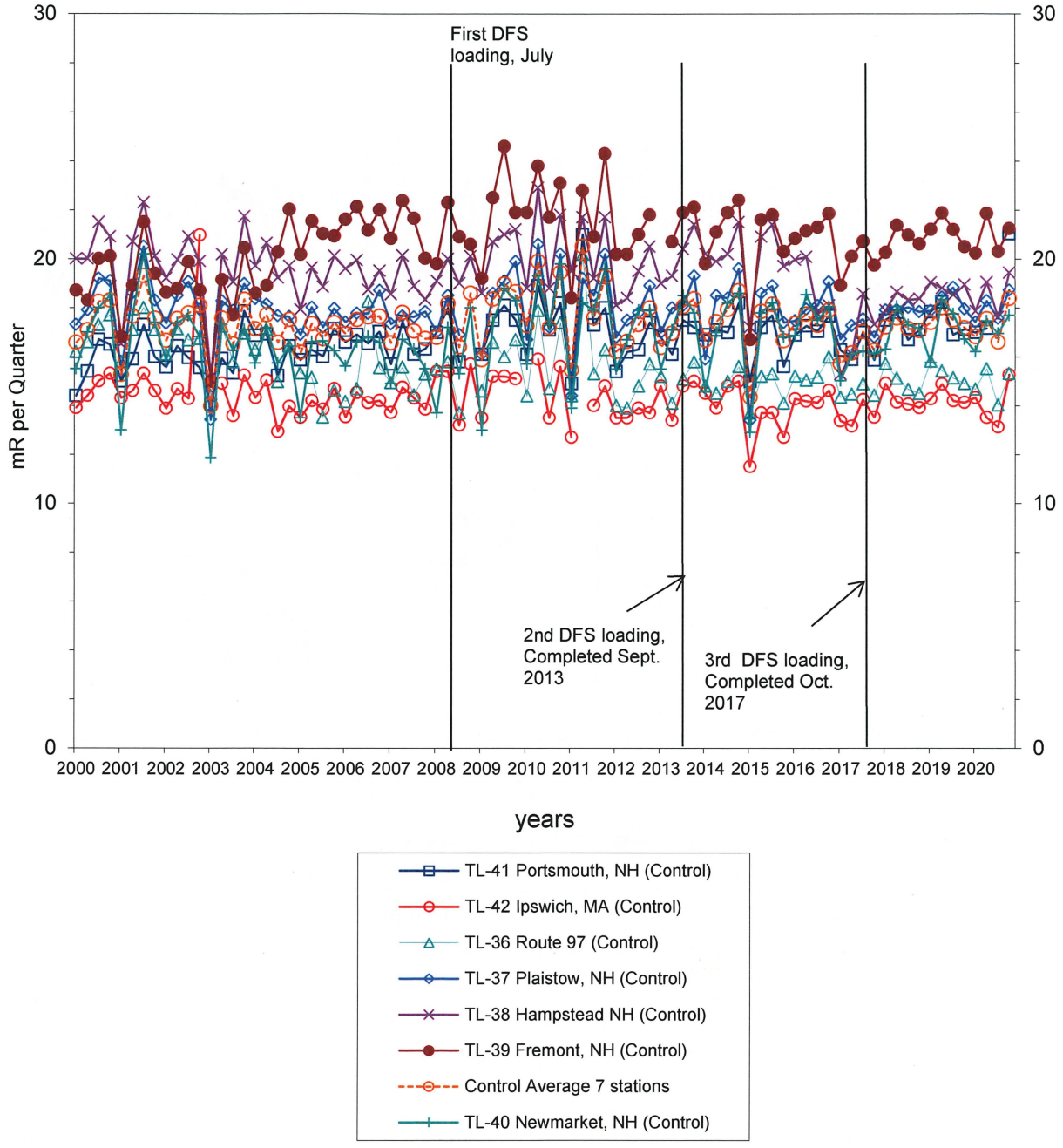


FIGURE 4.5

DFS RADIATION MEASUREMENTS TRENDS (USING TLDs)
SEABROOK STATION

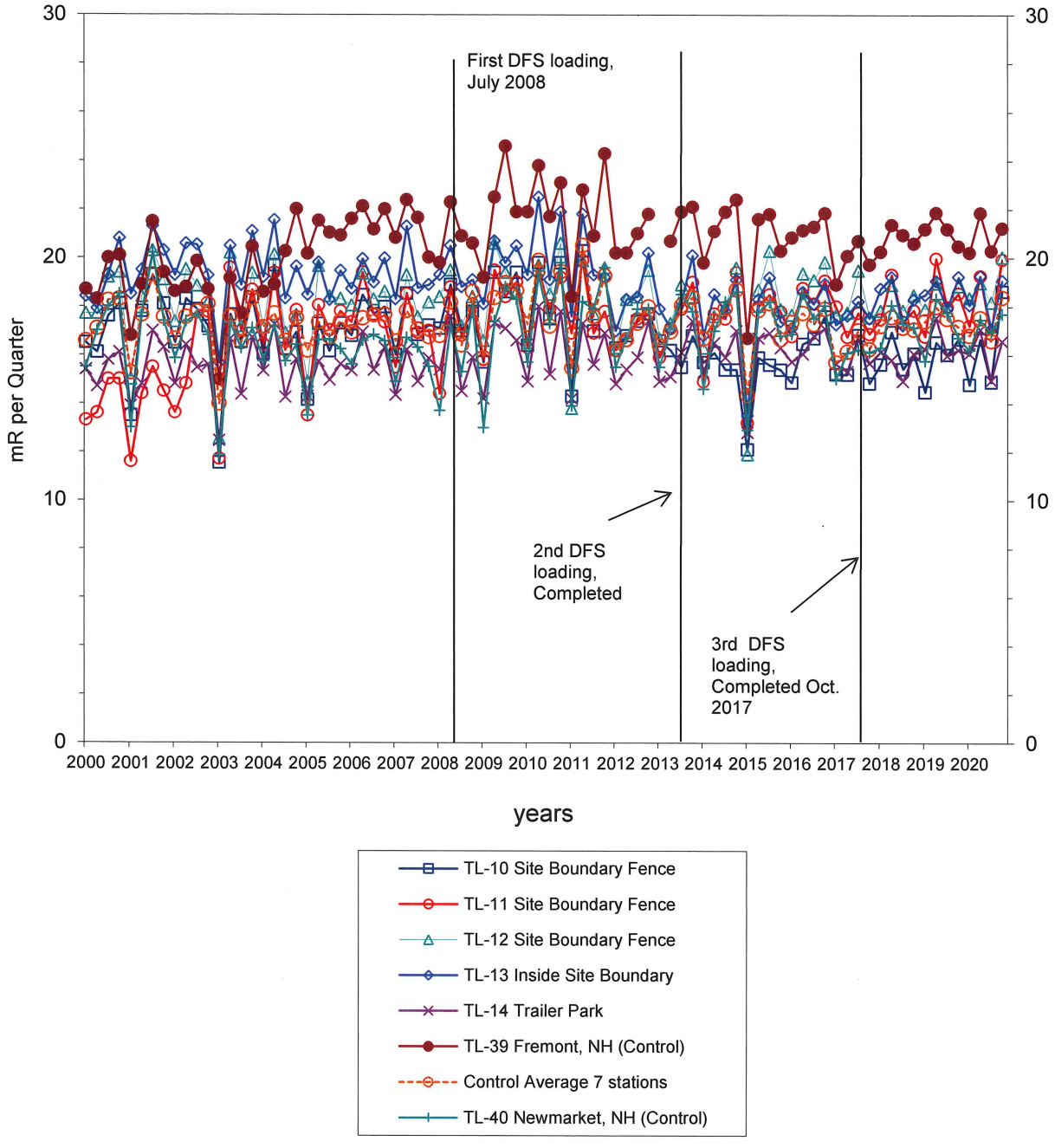
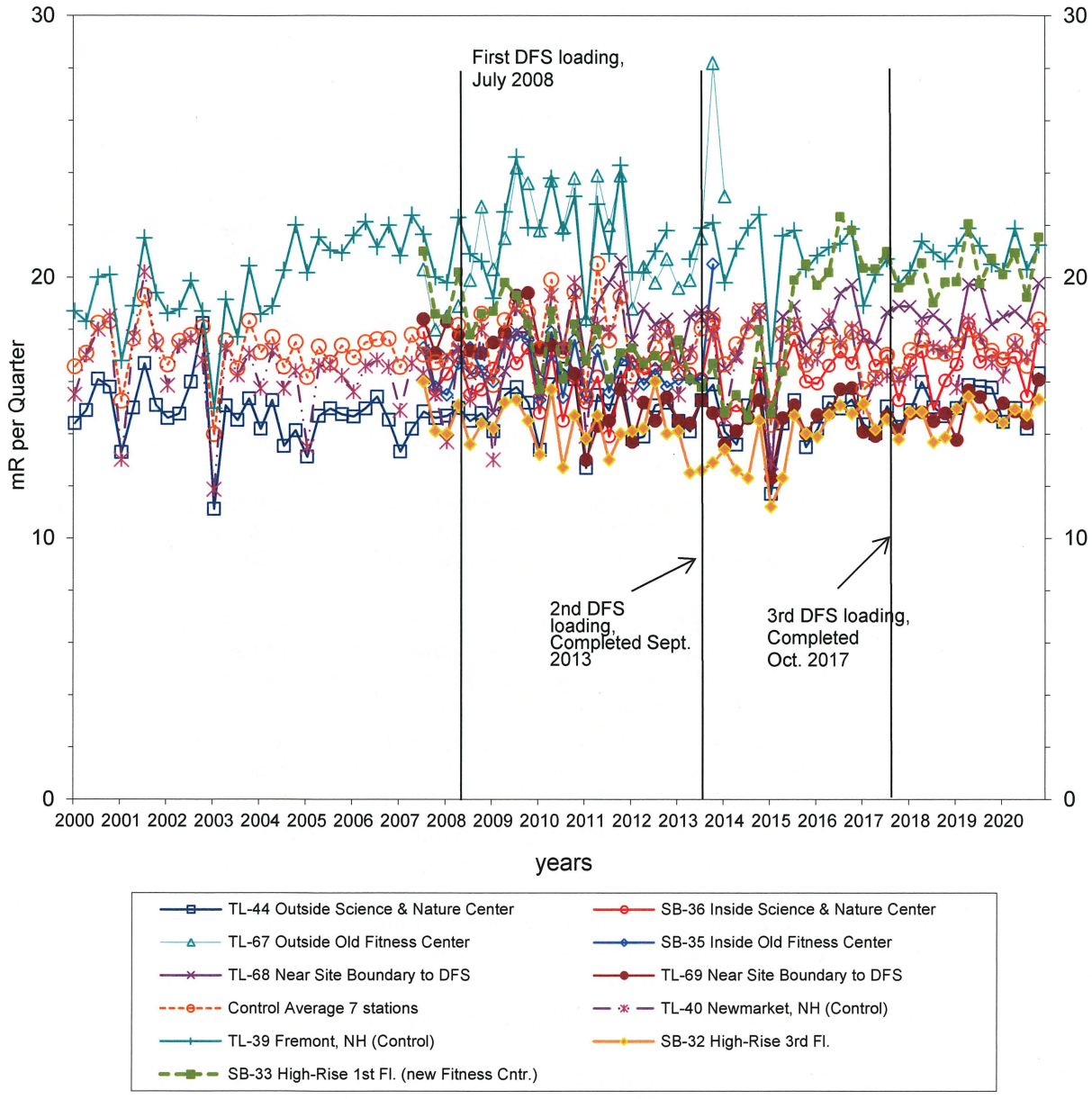


FIGURE 4.6

DFS RADIATION MEASUREMENTS TRENDS (USING TLDs)
SEABROOK STATION



5.0 Program Deviations and Reporting

5.1 Sampling Program Deviations

Table A.9.1-1 of the Offsite Dose Calculation Manual (ODCM) allows for deviations in the REMP sampling schedule "if specimens are unobtainable due to circumstances such as hazardous conditions, seasonal unavailability and malfunction of automatic sampling equipment." All deviations from the sampling schedule shall be documented each year in the Radiological Environmental Operating Report. The deviations for 2020 are as follows:

- On March 15, 2020, the REMP air sampling station in the plateyard (AP/CF-04) lost AC power. The out of service time did not impact the ability to collect sufficient sample volume over the collection cycle for this analysis. AR 02348540 was written to document and track this issue.
- On May 22, 2020, the REMP air sampling station in the plateyard (AP/CF-04) lost AC power. The out of service time did not impact the ability to collect sufficient sample volume over the collection cycle for this analysis. AR 02357460 was written to document and track this issue.
- On June 5, 2020, the REMP air samplers in Exeter/Hampton (AP/CF-08), the Rock Pile (AP/CF-03), and Barge Landing (AP/CF-01) lost AC power. The out of service time did not impact the ability to collect sufficient sample volume over the collection cycle for this analysis. AR 02358872 was written to document and track this issue.
- On July 7, 2020, the second quarter TLD SB-15 (Warehouse #2) was found to be missing. AR 02362045 was written to document and track this issue.
- On July 31, 2020, the REMP air samplers in Exeter/Hampton (AP/CF-08), the Rock Pile (AP/CF-03), and Barge Landing (AP/CF-01) lost AC power. The out of service time did not impact the ability to collect sufficient sample volume over the collection cycle for this analysis. AR 02364274 was written to document and track this issue.
- On August 14, 2020, the REMP air samplers in Exeter/Hampton (AP/CF-08), and Barge Landing (AP/CF-01) lost AC power. The out of service time did not impact the ability to collect sufficient sample volume over the collection cycle for this analysis. AR 02365449 was written to document and track this issue.
- On September 9, 2020, the REMP air samplers in Exeter/Hampton (AP/CF-08), the Rock Pile (AP/CF-03), and Barge Landing (AP/CF-01) lost AC power. The out of service time did not impact the ability to collect sufficient sample volume over the collection cycle for this analysis. AR 02367876 was written to document and track this issue.
- On September 13, 2020, the REMP air sampling station in the plateyard (AP/CF-04) lost AC power. The out of service time did not impact the ability to collect sufficient sample volume over the collection cycle for this analysis. AR 02368123 was written to document and track this issue.
- The third quarter TLD TL-41 (Portsmouth, NH) was found to be missing.
- On November 24, 2020, the REMP air samplers in Exeter/Hampton (AP/CF-08), the Rock Pile (AP/CF-03), and Barge Landing (AP/CF-01) lost AC power. The out of service time did not impact the ability to collect sufficient sample volume over the collection cycle for this analysis. AR 02376558 was written to document and track this issue.

5.2 Comparison of Achieved LLDs with Requirements

Table A.9.1-2 of the ODCM indicates the required Lower Limits of Detection (LLDs) for environmental sample analyses. (This table is duplicated in Table 5.2-1 of this report.) Occasionally an LLD for short-lived radionuclides is not achieved due to low sample volume or delays between sample collection and time of analysis. In such cases, ODCM Table A.9.1-2 requires a discussion of the event in the annual Radiological Environmental Operating Report.

For each analysis having an LLD requirement in ODCM Table A.9.1-2, the *a posteriori* (after the fact) Minimum Detectable Concentration (MDC) calculated for that analysis was compared with the required LLD. During 2020, 1361 analyses had an LLD requirement listed in Table 5.2-1, and in all cases except

four (three missed LLD's for I-131 in milk, one missed LLD for Ba-140 in drinking water), the LLD requirements were met.

For the missed LLD's, the following explanations are provided:

- LSN 519927001 (missed LLD for I-131 in milk) – Sample was analyzed outside of the GEL holding time period, which is based on the short half-life of the isotope being analyzed.
- LSN 523902001 (missed LLD for I-131 in milk) - Sample was analyzed outside of the GEL holding time period, which is based on the short half-life of the isotope being analyzed.
- LSN 527400001 (missed LLD for I-131 in milk) - Sample was analyzed outside of the GEL holding time period, which is based on the short half-life of the isotope being analyzed.
- LSN 506970003 (missed LLD for Ba-140 in drinking) - Analyst scheduling error.

The issue has been added into the laboratory NCR system for communication within the lab and process improvement.

5.3 Comparison of Results against Reporting Levels

Seabrook Station ODCM Section 10.1 requires the notification of the NRC by special report within 30 days of receipt from the environmental laboratory whenever a Reporting Level in Table 5.3-1 is exceeded. Reporting Levels are the environmental concentrations that relate to the ALARA design dose objectives of 10 CFR 50, Appendix I. It should be noted that environmental concentrations are averaged over calendar quarters for the purposes of this comparison, and that Reporting Levels apply only to measured levels of radioactivity due to plant effluents. During 2020, no Reporting Levels were exceeded.

Table 5.2-1

DETECTION CAPABILITIES FOR ENVIRONMENTAL SAMPLE ANALYSIS[a]

Lower Limit of Detection (LLD)

Analysis	Water (pCi/kg)	Airborne Particulate or Gas (pCi/m^3)	Fish and Invertebrates (pCi/kg, wet)	Milk (pCi/kg)	Food Products (pCi/kg, wet)	Sediment (pCi/kg, dry)
Gross Beta	4	0.01				
H-3	3,000					
Mn-54	15		130			
Fe-59	30		260			
Co-58, 60	15		130			
Zn-65	30		260			
Zr-Nb-95	15[c]					
I-131	15	0.07		1	60[b]	
Cs-134	15	0.05	130	15	60	150
Cs-137	18	0.06	150	18	80	180
Ba-La-140	15[c]			15		

a. Reference Seabrook Station ODCM, Table A.9.1-2 for clarifications.
b. Broad leaf vegetation only.
c. Parent only.

Table 5.3-1

REPORTING LEVELS FOR RADIOACTIVITY CONCENTRATIONS IN ENVIRONMENTAL SAMPLES[a]

Analysis	Water (pCi/kg)	Airborne Particulate or Gas (pCi/m^3)	Fish and Invertebrates (pCi/kg, wet)	Milk (pCi/kg)	Food Products (pCi/kg, wet)
H-3	30,000				
Mn-54	1,000		30,000		
Fe-59	400		10,000		
Co-58	1,000		30,000		
Co-60	300		10,000		
Zn-65	300		20,000		
Zr-Nb-95	400				
I-131	100	0.9		3	100[b]
Cs-134	30	10	1,000	60	1,000
Cs-137	50	20	2,000	70	2,000
Ba-La-140	200			300	

a. Reference Seabrook Station ODCM Table A.9.1-3 for clarifications.
b. Broad leaf vegetation only.

6.0 QUALITY ASSURANCE PROGRAM

6.1 GEL Laboratories QA

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 their Quality Assurance Plan, GL-QS-B-001. The Quality Systems include all quality assurance (QA) policies and quality control (QC) procedures necessary to plan, implement, and assess the work that GEL performs. GEL's QA Program establishes a quality management system (QMS) that governs all of the activities of the organization.

The results of GEL's assessment of their laboratory activities listed in this section entails their quality assurance program for the proficiency testing (PT) and environmental monitoring aspects of GEL for 2020. 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 summary was extracted from GEL Laboratories report entitled "2020 Annual Quality Assurance Report for the Radiological Environmental Monitoring Program (REMP)", dated February 26, 2021, and includes:

- Intra-laboratory QC results analyzed during 2020.
- Inter-laboratory QC results analyzed during 2020 where known values were available.

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

In addition to internal and client audits, GEL's laboratory participates in annual performance evaluation studies conducted by independent providers. GEL routinely participates 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 statistical process control (SPC) data.

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

- US Environmental Protection Agency (EPA) Discharge Monitoring Report, Quality Assurance Program (DMR-QA) - An annual national program sponsored by the 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 (DOE) 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, which includes parameters for both organic and inorganic analytes.

- ERA's Water Supply (WS) biannual program for drinking water methodologies, which 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 program test (PT) provider, samples are managed and analyzed in the same manner as environmental samples from GEL's clients.

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 (NELAP)
- 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 (20-RAD-001) was conducted in August and September, 2020. There were no findings or observations, and two recommendations for improvements from this assessment.

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.

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.

GEL also evaluates its 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. GEL establishes 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. Current process control limits are maintained in GEL's AlphaLIMS. GEL also measures 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).

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 samples 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 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.

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

Summary of Data Results

During 2020, 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 2020. Of the four hundred fifty-six (456) total results reported, 97.1% (443 of 456) were found to be acceptable. The list below contains the type of matrix evaluated by GEL.

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

A summary list of all Inter-laboratory radiological proficiency test results and their evaluation against their acceptance criteria is provided in Table 6.1-1. This list reflects GEL's participation in the MAPEP Monitoring Program, the ERA MRaD PT Program, the ERA PT Program, and the Eckert & Ziegler Analytics Environmental Cross-Check Program.

Summaries of GEL's Intra-laboratory test result for bias and precision by sample matrix are provided in Table 6.1-3 (REMP Related) and Table 6.1-4 (All Samples).

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

Eckert & Ziegler Analytics provided samples for ninety-one (91) 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%). Table 6.1-2 list the results specific to the Eckert & Ziegler Analytics sample provided in 2020. No corrective action reports were noted for these results.

Summary of Participation in the MAPEP Monitoring Program

MAPEP Series 42 and 43 were analyzed by the laboratory. Of the one hundred twenty-seven (127) analyses, 99% (126 out of 127) of all results fell within the PT provider's acceptance criteria. One isotope failure occurred in Series 40: Iron-55 in soil. One isotope failure occurred in Series 43: Iron-55 in soil.

For the corrective actions associated with MAPEP Series 42 and 43, refer to corrective action CARR201214-1296 (Table 6.1-5).

Summary of Participation in the ERA MRaD PT Program

The ERA MRad program provided samples (MRAD-32 and MRAD-33) for one hundred ninety-eight (198) individual environmental analyses. One hundred ninety-four (194) of the 198 analyses fell within the PT provider's acceptance criteria (98%). Two isotope failures occurred in MRAD-32: Uranium-238 in air filter, Uranium-234 in water, and Uranium-Total in air filter.

For the corrective actions associated with MRAD-32 and MRAD-33, refer to corrective action CARR200902-1278 (Table 6.1-5).

Summary of Participation in the ERA PT Program

The ERA program provided samples (RAD-120, RAD-121, and RAD-122) for forty (40) individual environmental analyses. Of the 40 analyses, 80% (32 out of 40) of all results fell within the PT provider's acceptance criteria. Three isotope failures occurred in RAD-120: Strontium-89, Tritium, and Iodine-131 in water. Two failures occurred in RAD-122: Barium-133 and Cobalt-60 in water.

For the corrective actions associated with RAD-120 and RAD-122, refer to corrective actions CARR200224-1274 and CARR200902-1287, respectively (Table 6.1-5).

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 standard operating procedures (SOP). The other is formal corrective action documented by the Quality Systems Team in accordance with GEL's standard operating procedure 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 GEL's standard operating procedure GL-QS-E-002 for Conducting Corrective/Preventive Action and Identifying Opportunities for Improvement. Recording and documentation is performed following guidelines stated in GEL's standard operating procedure 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 GEL's standard operating procedure 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 6.1-5 provides the status of CARRs for radiological performance testing during 2020. GEL has determined that causes of the failures did not impact any data reported to its clients.

TABLE 6.1-1

2020 INTER-LAB RADIOLOGICAL PROFICIENCY TESTING RESULTS AND ACCEPTANCE CRITERIA

PT Provider	Quarter / Year	Analytical Date	Sample Number	Sample Media	Unit	Analyte / Nuclide	GEL Value	Known value	Acceptance Range/ Ratio	Evaluation
ERA	1st/2020	2/24/20	RAD-120	Water	pCi/L	Barium-133	59.2	64.5	53.7 - 71.0	Acceptable
ERA	1st/2020	2/24/20	RAD-120	Water	pCi/L	Cesium-134	21.5	22.9	17.5 - 25.6	Acceptable
ERA	1st/2020	2/24/20	RAD-120	Water	pCi/L	Cesium-137	217	220	198 - 244	Acceptable
ERA	1st/2020	2/24/20	RAD-120	Water	pCi/L	Cobalt-60	97.7	91.2	82.1 - 103	Acceptable
ERA	1st/2020	2/24/20	RAD-120	Water	pCi/L	Zinc-65	332	298	268 - 348	Acceptable
ERA	1st/2020	2/24/20	RAD-120	Water	pCi/L	Gross Alpha	67.1	58.9	30.8 - 73.3	Acceptable
ERA	1st/2020	2/24/20	RAD-120	Water	pCi/L	Gross Alpha	55.4	58.9	30.8 - 73.3	Acceptable
ERA	1st/2020	2/24/20	RAD-120	Water	pCi/L	Gross Beta	20	21	12.6 - 29.1	Acceptable
ERA	1st/2020	2/24/20	RAD-120	Water	pCi/L	Radium-226	15.6	17.4	12.9 - 19.9	Acceptable
ERA	1st/2020	2/24/20	RAD-120	Water	pCi/L	Radium-228	5.71	7.95	5.06 - 10.1	Acceptable
ERA	1st/2020	2/24/20	RAD-120	Water	pCi/L	Radium-228	5.68	7.95	5.06 - 10.1	Acceptable
ERA	1st/2020	2/24/20	RAD-120	Water	pCi/L	Uranium (Nat)	64.8	68.2	55.7 - 75.0	Acceptable
ERA	1st/2020	2/24/20	RAD-120	Water	pCi/L	Tritium	15200	17800	15600 - 19600	Not Acceptable
ERA	1st/2020	2/24/20	RAD-120	Water	pCi/L	Tritium	17700	17800	15600 - 19600	Acceptable
ERA	1st/2020	2/24/20	RAD-120	Water	pCi/L	Strontium-89	73.3	59.3	47.6 - 67.1	Not Acceptable
ERA	1st/2020	2/24/20	RAD-120	Water	pCi/L	Strontium-89	70.8	59.3	47.6 - 67.1	Not Acceptable
ERA	1st/2020	2/24/20	RAD-120	Water	pCi/L	Strontium-90	38.3	36.5	26.8 - 42.1	Acceptable
ERA	1st/2020	2/24/20	RAD-120	Water	pCi/L	Strontium-90	30.6	36.5	26.8 - 42.1	Acceptable
ERA	1st/2020	2/24/20	RAD-120	Water	pCi/L	Iodine-131	23.7*	29.9	24.9 - 34.9	Not Acceptable
ERA	1st/2020	2/24/20	RAD-120	Water	pCi/L	Iodine-131	31.8	29.9	24.9 - 34.9	Acceptable
EZA	1st/2020	05/08/20	E13167	Cartridge	pCi	Iodine-131	9.37E+01	9.12E+01	1.03	Acceptable
EZA	1st/2020	05/08/20	E13168	Milk	pCi/L	Strontium-89	9.15E+01	9.55E+01	0.96	Acceptable
EZA	1st/2020	05/08/20	E13168	Milk	pCi/L	Strontium-90	1.51E+02	1.43E+02	0.62	Acceptable
EZA	1st/2020	05/08/20	E13169	Milk	pCi/L	Cerium-141	1.99E+02	1.84E+02	1.08	Acceptable
EZA	1st/2020	05/08/20	E13169	Milk	pCi/L	Cobalt-58	1.96E+02	1.89E+02	1.03	Acceptable
EZA	1st/2020	05/08/20	E13169	Milk	pCi/L	Cobalt-60	2.33E+02	2.29E+02	1.02	Acceptable
EZA	1st/2020	05/08/20	E13169	Milk	pCi/L	Chromium-51	3.84E+02	3.76E+02	1.02	Acceptable
EZA	1st/2020	05/08/20	E13169	Milk	pCi/L	Cesium-134	1.36E+02	1.49E+02	0.91	Acceptable
EZA	1st/2020	05/08/20	E13169	Milk	pCi/L	Cesium-137	1.91E+02	1.80E+02	1.06	Acceptable
EZA	1st/2020	05/08/20	E13169	Milk	pCi/L	Manganese-54	2.31E+02	2.10E+02	1.1	Acceptable
EZA	1st/2020	05/08/20	E13169	Milk	pCi/L	Iron-59	1.82E+02	1.63E+02	1.12	Acceptable
EZA	1st/2020	05/08/20	E13169	Milk	pCi/L	Zinc-65	2.69E+02	2.52E+02	1.07	Acceptable

PT Provider	Quarter / Year	Analytical Date	Sample Number	Sample Media	Unit	Analyte / Nuclide	GEL Value	Known value	Acceptance Range/ Ratio	Evaluation
EZA	1st/2020	05/08/20	E13170	Water	pCi/L	Cerium-141	2.11E+02	1.90E+02	1.11	Acceptable
EZA	1st/2020	05/08/20	E13170	Water	pCi/L	Cesium-134	1.53E+02	1.54E+02	0.99	Acceptable
EZA	1st/2020	05/08/20	E13170	Water	pCi/L	Cesium-137	2.08E+02	1.85E+02	1.12	Acceptable
EZA	1st/2020	05/08/20	E13170	Water	pCi/L	Chromium-51	4.34E+02	3.88E+02	1.12	Acceptable
EZA	1st/2020	05/08/20	E13170	Water	pCi/L	Cobalt-58	2.21E+02	1.96E+02	1.13	Acceptable
EZA	1st/2020	05/08/20	E13170	Water	pCi/L	Cobalt-60	2.59E+02	2.36E+02	1.10	Acceptable
EZA	1st/2020	05/08/20	E13170	Water	pCi/L	Iodine-131	1.02E+02	9.29E+01	1.1	Acceptable
EZA	1st/2020	05/08/20	E13170	Water	pCi/L	Iron-59	1.79E+02	1.68E+02	1.06	Acceptable
EZA	1st/2020	05/08/20	E13170	Water	pCi/L	Manganese-54	2.48E+02	2.16E+02	1.15	Acceptable
EZA	1st/2020	05/08/20	E13170	Water	pCi/L	Zinc-65	3.05E+02	2.61E+02	1.17	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Actinium-228	3200	3170	2090 - 3990	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Actinium-228	3200	3170	2090 - 3990	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Americium-241	1410	1730	934 - 2450	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Bismuth-212	3160	3280	939 - 4890	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Bismuth-212	3160	3280	939 - 4890	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Bismuth-214	1870	2270	1090 - 3380	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Bismuth-214	1870	2270	1090 - 3380	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Cesium-134	5040	6200	4240 - 7410	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Cesium-134	5040	6200	4240 - 7410	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Cesium-137	6830	7280	5510 - 9210	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Cesium-137	6830	7280	5510 - 9210	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Cobalt-60	4840	5170	4070 - 6380	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Cobalt-60	4840	5170	4070 - 6380	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Lead-212	3580	3280	2290 - 4150	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Lead-212	3580	3280	2290 - 4150	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Lead-214	2380	2330	979 - 3660	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Lead-214	2380	2330	979 - 3660	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Manganese-54	<25.4	<1000	<1000	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Manganese-54	<25.4	<1000	<1000	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Plutonium-238	951	1010	504 - 1540	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Plutonium-239	1020	1240	676 - 1780	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Potassium-40	26000	24700	17000 - 29500	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Potassium-40	26000	24700	17000 - 29500	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Strontium-90	1980	2550	794 - 3970	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Strontium-90	1980	2550	794 - 3970	Acceptable

PT Provider	Quarter / Year	Analytical Date	Sample Number	Sample Media	Unit	Analyte / Nuclide	GEL Value	Known value	Acceptance Range/ Ratio	Evaluation
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Strontium-90	1980	2550	794 - 3970	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Thorium-234	5090	4010	1510 - 6870	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Thorium-234	5090	4010	1510 - 6870	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Uranium-234	3330	3600	1690 - 4720	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Uranium-234	3910	3600	1690 - 4720	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Uranium-238	3490	3570	1960 - 4790	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Uranium-238	2950	3570	1960 - 4790	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Uranium-Total	6980	7340	4070 - 9490	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Uranium-Total	6995	7340	4070 - 9490	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	µg/kg	Uranium-Total (mass)	10500	10700	4830 - 14400	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	µg/kg	Uranium-Total (mass)	8830	10700	4830 - 14400	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Zinc-65	1070	1100	879 - 1500	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Zinc-65	1070	1100	879 - 1500	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Vegetation	pCi/kg	Americium-241	3470	3950	2440 - 5580	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Vegetation	pCi/kg	Cesium-134	1780	2150	1430 - 2860	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Vegetation	pCi/kg	Cesium-134	1780	2150	1430 - 2860	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Vegetation	pCi/kg	Cesium-137	942	1030	792 - 1390	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Vegetation	pCi/kg	Cesium-137	942	1030	792 - 1390	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Vegetation	pCi/kg	Cobalt-60	987	997	783 - 1300	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Vegetation	pCi/kg	Cobalt-60	987	997	783 - 1300	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Vegetation	pCi/kg	Curium-244	881	1050	592 - 1310	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Vegetation	pCi/kg	Manganese-54	<39.6	<300	<300	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Vegetation	pCi/kg	Manganese-54	<39.6	<300	<300	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Vegetation	pCi/kg	Plutonium-238	1070	1150	796 - 1480	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Vegetation	pCi/kg	Plutonium-239	227	232	160 - 294	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Vegetation	pCi/kg	Potassium-40	35700	39300	29500 - 49800	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Vegetation	pCi/kg	Potassium-40	35700	39300	29500 - 49800	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Vegetation	pCi/kg	Strontium-90	1720	1720	970 - 2240	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Vegetation	pCi/kg	Strontium-90	1720	1720	970 - 2240	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Vegetation	pCi/kg	Strontium-90	1720	1720	970 - 2240	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Vegetation	pCi/kg	Uranium-234	1750	1900	1330 - 2420	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Vegetation	pCi/kg	Uranium-238	1780	1880	1330 - 2350	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Vegetation	pCi/kg	Uranium-Total	3620	3870	2470 - 5220	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Vegetation	µg/kg	Uranium-Total (mass)	5330	5640	4330 - 6990	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Vegetation	pCi/kg	Zinc-65	2740	2750	2050 - 4080	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Vegetation	pCi/kg	Zinc-65	2740	2750	2050 - 4080	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	pCi/Filter	Americium-241	64.9	74.7	53.3 - 99.6	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	pCi/Filter	Cesium-134	1360	1390	902 - 1700	Acceptable

PT Provider	Quarter / Year	Analytical Date	Sample Number	Sample Media	Unit	Analyte / Nuclide	GEL Value	Known value	Acceptance Range/ Ratio	Evaluation
ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	pCi/Filter	Cesium-134	1360	1390	902 - 1700	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	pCi/Filter	Cesium-137	370	351	288 - 460	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	pCi/Filter	Cesium-137	370	351	288 - 460	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	pCi/Filter	Cobalt-60	459	422	359 - 536	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	pCi/Filter	Cobalt-60	459	422	359 - 536	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	pCi/Filter	Iron-55	1150	1260	460 - 2010	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	pCi/Filter	Manganese-54	<3.87	<50.0	<50.0	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	pCi/Filter	Manganese-54	<3.87	<50.0	<50.0	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	pCi/Filter	Plutonium-238	21.9	28	21.1 - 34.4	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	pCi/Filter	Plutonium-239	30.6	40.1	30.0 - 48.4	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	pCi/Filter	Strontium-90	181	175	111 - 238	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	pCi/Filter	Uranium-234	45.7	56.2	41.7 - 65.9	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	pCi/Filter	Uranium-234	46.7	56.2	41.7 - 65.9	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	pCi/Filter	Uranium-238	46	55.7	42.1 - 66.5	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	pCi/Filter	Uranium-238	39.6	55.7	42.1 - 66.5	Not Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	pCi/Filter	Uranium-Total	94.5	114	83.2 - 135	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	pCi/Filter	Uranium-Total	88.1	114	83.2 - 135	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	µg/Filter	Uranium-Total (mass)	138	167	134 - 196	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	µg/Filter	Uranium-Total (mass)	118	167	134 - 196	Not Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	pCi/Filter	Zinc-65	798	694	569 - 1060	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	pCi/Filter	Zinc-65	798	694	569 - 1060	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	pCi/Filter	Gross Alpha	34.4	29.3	15.3 - 48.3	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	pCi/Filter	Gross Beta	61.1	66.4	40.3 - 100	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Americium-241	47.9	45.3	31.1 - 57.9	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Cesium-134	1420	1520	1150 - 1670	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Cesium-134	1420	1520	1150 - 1670	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Cesium-134	1420	1520	1150 - 1670	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Cesium-137	2440	2390	2050 - 2720	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Cesium-137	2440	2390	2050 - 2720	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Cesium-137	2440	2390	2050 - 2720	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Cobalt-60	2890	2760	2380 - 3170	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Cobalt-60	2890	2760	2380 - 3170	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Cobalt-60	2890	2760	2380 - 3170	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Iron-55	140	152	89.3 - 221	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Manganese-54	<6.25	<100	<100	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Manganese-54	<6.25	<100	<100	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Manganese-54	<6.25	<100	<100	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Plutonium-238	32.5	36.4	21.9 - 47.2	Acceptable

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ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Plutonium-239	29.7	33.6	20.8 - 41.4	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Strontium-90	426	447	322 - 552	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Uranium-234	187	186	142 - 213	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Uranium-234	226*	186	142 - 213	Not Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Uranium-238	191	184	143 - 217	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Uranium-238	199	184	143 - 217	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Uranium-Total	387	378	295 - 431	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Uranium-Total	434.3*	378	295 - 431	Not Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	µg/L	Uranium-Total (mass)	572	551	446 - 625	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	µg/L	Uranium-Total (mass)	595	551	446 - 625	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Zinc-65	1330	1190	1060 - 1500	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Zinc-65	1330	1190	1060 - 1500	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Zinc-65	1330	1190	1060 - 1500	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Gross Alpha	67.6	165	60.2 - 228	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Gross Alpha	67.6	165	60.2 - 228	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Gross Beta	143	158	79.0 - 217	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Gross Beta	143	158	79.0 - 217	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Tritium	5990	6280	4730 - 7640	Acceptable
ERA	2nd/2020	05/26/20	RAD-121	Water	pCi/L	Tritium	13100	14100	12300 - 15500	Acceptable
ERA	2nd/2020	05/26/20	RAD-121	Water	pCi/L	Strontium-89	68.8	60.1	48.3 - 67.9	Not Acceptable
ERA	2nd/2020	05/26/20	RAD-121	Water	pCi/L	Strontium-89	71.6	60.1	48.3 - 67.9	Not Acceptable
ERA	2nd/2020	05/26/20	RAD-121	Water	pCi/L	Iodine-131	27.5	28.9	24.1 - 33.8	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20- GrF42	Filter	Bq/sample	Gross alpha	0.79	1.24	0.37-2.11	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20- GrF42	Filter	Bq/sample	Gross beta	1.84	2.00	1.00-3.00	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-GrW42	Water	Bq/L	Gross alpha	1.01	1.03	0.31-1.75	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-GrW42	Water	Bq/L	Gross beta	4.18	4.24	2.12-6.36	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20- MaS42	Soil	Bq/Kg	Americium-241	43.0	40.9	28.6-53.2	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20- MaS42	Soil	Bq/Kg	Cesium-134	984	1114	780-1448	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20- MaS42	Soil	Bq/Kg	Cesium-137	1060	1020	714-1326	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20- MaS42	Soil	Bq/Kg	Cobalt-57	1200.000	1071	750-1392	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaS42	Soil	Bq/Kg	Cobalt-60	0.366		False Pos Test	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaS42	Soil	Bq/Kg	Iron-55	950.0	1096	767-1425	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaS42	Soil	Bq/Kg	Manganese-54	961	945	662-1229	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20- MaS42	Soil	Bq/Kg	Nickel-63	-0.727		False Pos Test	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20- MaS42	Soil	Bq/Kg	Plutonium-238	38.0	41.8	29.3-54.3	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20- MaS42	Soil	Bq/Kg	Plutonium-239/240	38.0	41.8	29.3-54.3	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20- MaS42	Soil	Bq/Kg	Potassium-40	618	625	438-813	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaS42	Soil	Bq/Kg	Strontium-90	286	340	238-442	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaS42	Soil	Bq/Kg	Technetium-99	728	706	494-918	Acceptable

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MAPEP	2nd/2020	07/02/20	MAPEP-20- MaS42	Soil	Bq/Kg	U-234/233	43.2	40.3	28.2-52.4	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20- MaS42	Soil	Bq/Kg	Uranium-238	64.6	68.0	48-88	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20- MaS42	Soil	Bq/Kg	Zinc-65	784	751	526-976	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20- MaW42	Water	Bq/L	Americium-241	0.545	0.547	0.383-0.711	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaW42	Water	Bq/L	Cesium-134	17.0	18.5	13.0-24.1	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaW42	Water	Bq/L	Cesium-137	12.0	11.3	7.9-14.7	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20- MaW42	Water	Bq/L	Cobalt-57	19.7	19.7	13.8-25.6	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20- MaW42	Water	Bq/L	Cobalt-60	11.0	10.6	7.4-13.8	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20- MaW42	Water	Bq/L	Hydrogen-3	193	196	137-255	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20- MaW42	Water	Bq/L	Iron-55	18.2	17.8	12.5-23.1	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaW42	Water	Bq/L	Manganese-54	20.6	19.6	13.7-25.5	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaW42	Water	Bq/L	Nickel-63	14.1	11.1	7.8-14.4	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20- MaW42	Water	Bq/L	Plutonium-238	0.822	0.940	0.66-1.22	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20- MaW42	Water	Bq/L	Plutonium-239/240	0.686	0.737	0.516-0.958	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20- MaW42	Water	Bq/L	Potassium-40	-0.0485		False Pos Test	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20- MaW42	Water	Bq/L	Radium-226	0.366	0.365	0.256-0.475	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaW42	Water	Bq/L	Strontium-90	0.0122		False Pos Test	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaW42	Water	Bq/L	Technetium-99	3.72	3.63	2.54-4.72	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20- MaW42	Water	Bq/L	Uranium-234	1.02	0.97	0.68-1.26	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaW42	Water	Bq/L	Uranium-238	0.98	0.95	0.67-1.24	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaW42	Water	Bq/L	Zinc-65	23.9	22.2	15.5-28.9	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20- XaW42	Alk. Water	Bq/L	Iodine-129	1.01	1.001	0.701-1.301	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20- RdF42	Filter	ug/sample	Uranium-235	0.0438	0.0460	0.0322-0.0598	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20- RdF42	Filter	ug/sample	Uranium-238	6.39	6.3	4.4-8.2	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20- RdF42	Filter	ug/sample	Uranium-Total	6.43	6.3	4.4-8.2	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-RdF42	Filter	Bq/sample	Americium-241	0.0671	0.0675	0.0473-0.0878	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-RdF42	Filter	Bq/sample	Cesium-134	0.626	0.600	0.420-0.780	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-RdF42	Filter	Bq/sample	Cesium-137	0.802	0.735	0.515-0.956	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20- RdF42	Filter	Bq/sample	Cobalt-57	1.54	1.50	1.05-1.95	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20- RdF42	Filter	Bq/sample	Cobalt-60	1.29	1.23	0.86-1.60	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20- RdF42	Filter	Bq/sample	Manganese-54	0.0065		False Pos Test	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-RdF42	Filter	Bq/sample	Plutonium-238	0.0341	0.0348	0.0244-0.0452	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-RdF42	Filter	Bq/sample	Plutonium-239/240	0.0395	0.0379	0.0265-0.0493	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-RdF42	Filter	Bq/sample	Strontium-90	0.884	0.97	0.68-1.26	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20- RdF42	Filter	Bq/sample	Uranium-234	0.0788	0.075	0.053-0.098	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20- RdF42	Filter	Bq/sample	Uranium-238	0.0801	0.078	0.055-0.101	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20- RdF42	Filter	Bq/sample	Zinc-65	1.43	1.18	0.83-1.53	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20- RdV42	Vegetation	Bq/sample	Americium-241	0.0761	0.075	0.053-0.098	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-RdV42	Vegetation	Bq/sample	Cesium-134	3.55	3.82	2.67-4.97	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-RdV42	Vegetation	Bq/sample	Cesium-137	2.83	2.77	1.94-3.60	Acceptable

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MAPEP	2nd/2020	07/02/20	MAPEP-20- RdV42	Vegetation	Bq/sample	Cobalt-57	0.00561		False Pos Test	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20- RdV42	Vegetation	Bq/sample	Cobalt-60	2.84	2.79	1.95-3.63	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20- RdV42	Vegetation	Bq/sample	Manganese-54	4.74	4.58	3.21-5.95	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20- RdV42	Vegetation	Bq/sample	Plutonium-238	0.0447	0.0472	0.0330-0.0614	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-RdV42	Vegetation	Bq/sample	Plutonium-239/240	0.06950	0.0772	0.0540-0.1004	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-RdV42	Vegetation	Bq/sample	Strontium-90	0.361	0.492	0.344-0.640	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20- RdV42	Vegetation	Bq/sample	Uranium-234	0.1070	0.102	0.071-0.133	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20- RdV42	Vegetation	Bq/sample	Uranium-238	0.1150	0.103	0.072-0.134	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20- RdV42	Vegetation	Bq/sample	Zinc-65	4.14	3.79	2.65-4.93	Acceptable
EZA	2nd/2020	07/31/20	E13171	Cartridge	pCi	Iodine-131	9.68E+01	9.19E+01	1.05	Acceptable
EZA	2nd/2020	07/31/20	E13172	Milk	pCi/L	Strontium-89	8.67E+01	8.81E+01	0.98	Acceptable
EZA	2nd/2020	07/31/20	E13172	Milk	pCi/L	Strontium-90	1.06E+01	1.27E+01	0.83	Acceptable
EZA	2nd/2020	07/31/20	E13173	Milk	pCi/L	Cerium-141	1.29E+02	1.16E+02	1.11	Acceptable
EZA	2nd/2020	07/31/20	E13173	Milk	pCi/L	Cobalt-58	1.04E+02	1.00E+02	1.03	Acceptable
EZA	2nd/2020	07/31/20	E13173	Milk	pCi/L	Cobalt-60	2.00E+02	1.95E+02	1.02	Acceptable
EZA	2nd/2020	07/31/20	E13173	Milk	pCi/L	Chromium-51	2.91E+02	2.56E+02	1.14	Acceptable
EZA	2nd/2020	07/31/20	E13173	Milk	pCi/L	Cesium-134	1.40E+02	1.46E+02	0.96	Acceptable
EZA	2nd/2020	07/31/20	E13173	Milk	pCi/L	Cesium-137	1.09E+02	1.04E+02	1.05	Acceptable
EZA	2nd/2020	07/31/20	E13173	Milk	pCi/L	Iron-59	1.09E+02	1.01E+02	1.08	Acceptable
EZA	2nd/2020	07/31/20	E13173	Milk	pCi/L	Iodine-131	8.31E+01	8.15E+01	1.02	Acceptable
EZA	2nd/2020	07/31/20	E13173	Milk	pCi/L	Manganese-54	1.41E+02	1.34E+02	1.05	Acceptable
EZA	2nd/2020	07/31/20	E13173	Milk	pCi/L	Zinc-65	2.48E+02	2.25E+02	1.10	Acceptable
EZA	2nd/2020	07/31/20	E13174	Water	pCi/L	Cerium-141	1.23E+02	1.17E+02	1.05	Acceptable
EZA	2nd/2020	07/31/20	E13174	Water	pCi/L	Cobalt-58	1.05E+02	1.02E+02	1.03	Acceptable
EZA	2nd/2020	07/31/20	E13174	Water	pCi/L	Cobalt-60	2.05E+02	1.98E+02	1.04	Acceptable
EZA	2nd/2020	07/31/20	E13174	Water	pCi/L	Chromium-51	2.76E+02	2.59E+02	1.06	Acceptable
EZA	2nd/2020	07/31/20	E13174	Water	pCi/L	Cesium-134	1.36E+02	1.48E+02	0.92	Acceptable
EZA	2nd/2020	07/31/20	E13174	Water	pCi/L	Cesium-137	1.04E+02	1.05E+02	0.99	Acceptable
EZA	2nd/2020	07/31/20	E13174	Water	pCi/L	Iron-59	1.05E+02	1.02E+02	1.03	Acceptable
EZA	2nd/2020	07/31/20	E13174	Water	pCi/L	Iodine-131	9.10E+01	8.05E+01	1.13	Acceptable
EZA	2nd/2020	07/31/20	E13174	Water	pCi/L	Manganese-54	1.47E+02	1.35E+02	1.09	Acceptable
EZA	2nd/2020	07/31/20	E13174	Water	pCi/L	Zinc-65	2.49E+02	2.27E+02	1.10	Acceptable
ERA	3rd /2020	08/24/20	RAD - 122	Water	pCi/L	Barium-133	64.7	58.6	48.6 - 64.6	Not Acceptable
ERA	3rd /2020	08/24/20	RAD - 122	Water	pCi/L	Cesium-134	23	22.3	17.0 - 25.0	Acceptable
ERA	3rd /2020	08/24/20	RAD - 122	Water	pCi/L	Cesium-137	76.5	73	65.7 - 83.0	Acceptable
ERA	3rd /2020	08/24/20	RAD - 122	Water	pCi/L	Cobalt-60	97.9	86.1	77.5 - 97.0	Not Acceptable
ERA	3rd /2020	08/24/20	RAD - 122	Water	pCi/L	Zinc-65	96.3	82.9	74.6 - 99.6	Acceptable
ERA	3rd /2020	08/24/20	RAD - 122	Water	pCi/L	Gross Alpha	54.3	52.4	27.3 - 65.6	Acceptable
ERA	3rd /2020	08/24/20	RAD - 122	Water	pCi/L	Gross Beta	24.7	24.3	15.0 - 32.3	Acceptable

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ERA	3rd /2020	08/24/20	RAD - 122	Water	pCi/L	Radium-226	9.42	10.8	8.08 - 12.5	Acceptable
ERA	3rd /2020	08/24/20	RAD - 122	Water	pCi/L	Radium-228	5.55	5.42	3.28 - 7.19	Acceptable
ERA	3rd /2020	08/24/20	RAD - 122	Water	pCi/L	Uranium (Nat)	28.9	29.3	23.7 - 32.5	Acceptable
ERA	3rd /2020	08/24/20	RAD - 122	Water	pCi/L	Uranium (Nat)mass	41.3	42.7	34.5 - 47.4	Acceptable
ERA	3rd /2020	08/24/20	RAD - 122	Water	pCi/L	Tritium	17800	20300	17800 - 22300	Acceptable
ERA	3rd /2020	08/24/20	RAD - 122	Water	µg/L	Tritium	20200	20300	17800 - 22300	Acceptable
ERA	3rd /2020	08/24/20	RAD - 122	Water	pCi/L	Strontium-89	61.7	68.9	56.2 - 77.1	Acceptable
ERA	3rd /2020	08/24/20	RAD - 122	Water	pCi/L	Strontium-90	18.2	19.5	13.9 - 23.1	Acceptable
ERA	3rd /2020	08/24/20	RAD - 122	Water	pCi/L	Iodine-131	29.9	26.1	21.7 - 30.8	Acceptable
EZA	3rd/2020	11/10/20	E13175	Cartridge	pCi	Iodine-131	7.96E+01	7.67E+01	1.04	Acceptable
EZA	3rd/2020	11/10/20	E13176	Milk	pCi/L	Strontium-89	1.13E+02	9.54E+01	1.18	Acceptable
EZA	3rd/2020	11/10/20	E13176	Milk	pCi/L	Strontium-90	9.47E+01	1.28E+02	0.74	Acceptable
EZA	3rd/2020	11/10/20	E13177	Milk	pCi/L	Cerium-141	1.47E+02	1.50E+02	0.98	Acceptable
EZA	3rd/2020	11/10/20	E13177	Milk	pCi/L	Cobalt-58	1.81E+02	1.80E+02	1.01	Acceptable
EZA	3rd/2020	11/10/20	E13177	Milk	pCi/L	Cobalt-60	3.85E+02	3.79E+02	1.02	Acceptable
EZA	3rd/2020	11/10/20	E13177	Milk	pCi/L	Chromium-51	4.11E+02	3.72E+02	1.10	Acceptable
EZA	3rd/2020	11/10/20	E13177	Milk	pCi/L	Cesium-134	1.82E+02	2.00E+02	0.91	Acceptable
EZA	3rd/2020	11/10/20	E13177	Milk	pCi/L	Cesium-137	2.58E+02	2.50E+02	1.03	Acceptable
EZA	3rd/2020	11/10/20	E13177	Milk	pCi/L	Iron-59	2.29E+02	2.00E+02	1.14	Acceptable
EZA	3rd/2020	11/10/20	E13177	Milk	pCi/L	Iodine-131	9.49E+01	9.50E+01	1.00	Acceptable
EZA	3rd/2020	11/10/20	E13177	Milk	pCi/L	Manganese-54	1.96E+02	1.80E+02	1.09	Acceptable
EZA	3rd/2020	11/10/20	E13177	Milk	pCi/L	Zinc-65	3.04E+02	2.70E+02	1.13	Acceptable
EZA	3rd/2020	11/10/20	E13178	Water	pCi/L	Cerium-141	1.58E+02	1.51E+02	1.05	Acceptable
EZA	3rd/2020	11/10/20	E13178	Water	pCi/L	Cobalt-58	1.90E+02	1.80E+02	1.05	Acceptable
EZA	3rd/2020	11/10/20	E13178	Water	pCi/L	Cobalt-60	4.04E+02	3.80E+02	1.06	Acceptable
EZA	3rd/2020	11/10/20	E13178	Water	pCi/L	Chromium-51	3.45E+02	3.73E+02	0.92	Acceptable
EZA	3rd/2020	11/10/20	E13178	Water	pCi/L	Cesium-134	1.81E+02	2.01E+02	0.9	Acceptable
EZA	3rd/2020	11/10/20	E13178	Water	pCi/L	Cesium-137	2.63E+02	2.51E+02	1.05	Acceptable
EZA	3rd/2020	11/10/20	E13178	Water	pCi/L	Iron-59	2.26E+02	2.01E+02	1.12	Acceptable
EZA	3rd/2020	11/10/20	E13178	Water	pCi/L	Iodine-131	9.80E+01	9.82E+01	1.00	Acceptable
EZA	3rd/2020	11/10/20	E13178	Water	pCi/L	Manganese-54	2.06E+02	1.81E+02	1.14	Acceptable
EZA	3rd/2020	11/10/20	E13178	Water	pCi/L	Zinc-65	3.02E+02	2.71E+02	1.12	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Soil	pCi/kg	Actinium-228	3530	3290	2170 - 4150	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Soil	pCi/kg	Americium-241	780	677	366 - 959	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Soil	pCi/kg	Bismuth-212	3780	3290	942 - 4900	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Soil	pCi/kg	Bismuth-214	2970	3790	1820 - 5640	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Soil	pCi/kg	Cesium-134	3760	4180	2860 - 5000	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Soil	pCi/kg	Cesium-137	6890	6940	5250 - 8780	Acceptable

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ERA	4th/2020	11/16/20	MRAD-33	Soil	pCi/kg	Cobalt-60	2280	2520	1980 - 3110	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Soil	pCi/kg	Lead-214	3680	4080	1710 - 6410	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Soil	pCi/kg	Lead-214	3720	4080	1710 - 6410	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Soil	pCi/kg	Manganese-54	<23.9	<1000	<1000	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Soil	pCi/kg	Plutonium-238	1460	1670	833 - 2540	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Soil	pCi/kg	Potassium-40	24600	24700	17000 - 29500	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Soil	pCi/kg	Strontium-90	5110	4980	1550 - 7760	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Soil	pCi/kg	Thorium-234	5370	4740	1790 - 8120	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Soil	pCi/kg	Uranium-234	4550	4780	2240 - 6260	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Soil	pCi/kg	Uranium-234	5100	4780	2240 - 6260	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Soil	pCi/kg	Uranium-238	4800	4740	2600 - 6360	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Soil	pCi/kg	Uranium-238	4870	4740	2600 - 6360	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Soil	pCi/kg	Uranium-Total	9590	9730	5400 - 12600	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Soil	pCi/kg	Uranium-Total	10189	9730	5400 - 12600	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Soil	µg/kg	Uranium-Total(mass)	14400	14200	6410 - 19200	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Soil	µg/kg	Uranium-Total(mass)	14600	14200	6410 - 19200	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Soil	pCi/kg	Zinc-65	1220	1120	895 - 1530	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Vegetation	pCi/kg	Americium-241	2680	2940	1820 - 4150	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Vegetation	pCi/kg	Cesium-134	862	945	627 - 1260	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Vegetation	pCi/kg	Cesium-137	735	823	633 - 1110	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Vegetation	pCi/kg	Cobalt-60	663	691	542 - 903	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Vegetation	pCi/kg	Curium-244	3100	3400	1920 - 4230	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Vegetation	pCi/kg	Manganese-54	<47.5	<300	<300	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Vegetation	pCi/kg	Plutonium-238	4470	4590	3180 - 5920	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Vegetation	pCi/kg	Plutonium-239	838	768	531 - 972	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Vegetation	pCi/kg	Potassium-40	33500	34500	25900 - 43700	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Vegetation	pCi/kg	Strontium-90	8790	8690	4900 - 11300	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Vegetation	pCi/kg	Uranium-234	2650	2920	2050 - 3720	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Vegetation	pCi/kg	Uranium-238	2720	2900	2050 - 3630	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Vegetation	pCi/kg	Uranium-Total	5510	5950	3800 - 8020	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Vegetation	µg/kg	Uranium-Total(mass)	8150	8680	6660 - 10800	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Vegetation	pCi/kg	Zinc-65	1640	1580	1180 - 2340	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Air Filter	pCi/Filter	Americium-241	22.3	22.2	15.8 - 29.6	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Air Filter	pCi/Filter	Cesium-134	268	296	192 - 363	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Air Filter	pCi/Filter	Cesium-137	407	413	339 - 542	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Air Filter	pCi/Filter	Cobalt-60	507	497	422 - 631	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Air Filter	pCi/Filter	Iron-55	361	407	149 - 649	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Air Filter	pCi/Filter	Manganese-54	<3.82	<50.0	<50.0	Acceptable

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ERA	4th/2020	11/16/20	MRAD-33	Air Filter	pCi/Filter	Plutonium-238	25.3	28.8	21.7 - 35.4	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Air Filter	pCi/Filter	Plutonium-239	31	33.7	25.2 - 40.7	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Air Filter	pCi/Filter	Strontium-90	30.5	36.2	22.9 - 49.3	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Air Filter	pCi/Filter	Uranium-234	16.5	18.3	13.6 - 21.4	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Air Filter	pCi/Filter	Uranium-234	19.5	18.3	13.6 - 21.4	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Air Filter	pCi/Filter	Uranium-238	18.5	18.1	13.7 - 21.6	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Air Filter	pCi/Filter	Uranium-238	18.2	18.1	13.7 - 21.6	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Air Filter	pCi/Filter	Uranium-Total	35.8	37.2	27.2 - 44.1	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Air Filter	µg/Filter	Uranium-Total(mass)	55.3	54.3	43.6 - 63.6	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Air Filter	µg/Filter	Uranium-Total(mass)	54.4	54.3	43.6 - 63.6	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Air Filter	pCi/Filter	Zinc-65	540	500	410 - 764	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Air Filter	pCi/Filter	Gross Alpha	32.2	26.1	13.6 - 43.0	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Air Filter	pCi/Filter	Gross Beta	94.2	85.9	52.1 - 130	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Water	pCi/L	Americium-241	185	176	121 - 225	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Water	pCi/L	Cesium-134	849	911	688 - 1000	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Water	pCi/L	Cesium-137	1540	1510	1290 - 1720	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Water	pCi/L	Cobalt-60	1660	1560	1350 - 1790	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Water	pCi/L	Iron-55	267	298	175 - 433	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Water	pCi/L	Manganese-54	<4.61	<100	<100	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Water	pCi/L	Plutonium-238	160	191	115 - 247	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Water	pCi/L	Plutonium-239	81.7	100	61.9 - 123	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Water	pCi/L	Strontium-90	917	787	567 - 973	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Water	pCi/L	Uranium-234	33.8	35.2	26.8 - 40.3	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Water	pCi/L	Uranium-234	39.2	35.2	26.8 - 40.3	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Water	pCi/L	Uranium-238	34.7	34.9	27.0 - 41.1	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Water	pCi/L	Uranium-238	32.7	34.9	27.0 - 41.1	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Water	pCi/L	Uranium-238	37.3	34.9	27.0 - 41.1	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Water	pCi/L	Uranium-Total	70.4	71.8	56.0 - 81.9	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Water	pCi/L	Uranium-Total	78.2	71.8	56.0 - 81.9	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Water	µg/L	Uranium-Total(mass)	104	105	85.0 - 119	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Water	µg/L	Uranium-Total(mass)	112	105	85.0 - 119	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Water	pCi/L	Zinc-65	1010	917	816 - 1160	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Water	pCi/L	Gross Alpha	100	111	40.5 - 153	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Water	pCi/L	Gross Beta	181	194	97.0 - 267	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Water	pCi/L	Tritium	11600	12000	9040 - 14600	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20- MaS43	Soil	Bq/Kg	Americium-241	1.2		False Pos Test	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20- MaS43	Soil	Bq/Kg	Cesium-134	625	710	497-923	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20- MaS43	Soil	Bq/Kg	Cesium-137	0.87		False Pos Test	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20- MaS43	Soil	Bq/Kg	Cobalt-57	1260	1100	770-1430	Acceptable

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MAPEP	4th/2020	12/14/20	MAPEP-20-MaS43	Soil	Bq/Kg	Cobalt-60	998	1000	700-1300	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaS43	Soil	Bq/Kg	Iron-55	811	577	404-750	Not Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20- MaS43	Soil	Bq/Kg	Manganese-54	661	610	427-793	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20- MaS43	Soil	Bq/Kg	Nickel-63	840	980	686-1274	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20- MaS43	Soil	Bq/Kg	Plutonium-238	53.1	57.7	40.4-75	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20- MaS43	Soil	Bq/Kg	Plutonium-239/240	68.1	79.0	55-103	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaS43	Soil	Bq/Kg	Potassium-40	704	622	435-809	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaS43	Soil	Bq/Kg	Strontium-90	434	487	341-633	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20- MaS43	Soil	Bq/Kg	Technetium-99	5		False Pos Test	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20- MaS43	Soil	Bq/Kg	U-234/233	51	48	33.7-62.5	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20- MaS43	Soil	Bq/Kg	Uranium-238	126	128	90-166	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20- MaS43	Soil	Bq/Kg	Zinc-65	531	470	329-611	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaW43	Water	Bq/L	Americium-241	0.942	0.922	0.645-1.199	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaW43	Water	Bq/L	Cesium-134	13.9	15.2	10.6-19.8	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20- MaW43	Water	Bq/L	Cesium-137	15.10	14.3	10.0-18.6	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20- MaW43	Water	Bq/L	Cobalt-57	-0.0072		False Pos Test	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20- MaW43	Water	Bq/L	Cobalt-60	12.90	12.2	8.5-15.9	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20- MaW43	Water	Bq/L	Hydrogen-3	330	360	252-468	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaW43	Water	Bq/L	Iron-55	29.20	32.9	23.0-42.8	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaW43	Water	Bq/L	Manganese-54	-0.0032		False Pos Test	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaW43	Water	Bq/L	Nickel-63	-0.93		False Pos Test	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20- MaW43	Water	Bq/L	Plutonium-238	0.6430	0.7040	0.493-0.915	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20- MaW43	Water	Bq/L	Plutonium-239/240	0.001	0.009	Sens. Evaluation	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20- MaW43	Water	Bq/L	Potassium-40	-0.763		False Pos Test	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20- MaW43	Water	Bq/L	Radium-226	1.020	1.250	0.88-1.63	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaW43	Water	Bq/L	Strontium-90	9.97	11.60	8.1-15.1	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20- MaW43	Water	Bq/L	Technetium-99	8.720	9.40	6.6-12.2	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaW43	Water	Bq/L	Uranium-234/233	1.27	1.26	0.88-1.64	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaW43	Water	Bq/L	Uranium-238	1.31	1.30	0.9-1.7	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20- MaW43	Water	Bq/L	Zinc-65	18.9	16.9	11.8-22	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20- RdF43	Filter	ug/sample	Uranium-235	0.0920	0.1020	0.071-0.133	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20- RdF43	Filter	ug/sample	Uranium-238	13.1	14.6	10.2-19	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20- RdF43	Filter	ug/sample	Uranium-Total	13.2	14.7	10.3-19.1	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-RdF43	Filter	Bq/sample	Americium-241	0.129	0.134	0.094-0.174	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-RdF43	Filter	Bq/sample	Cesium-134	1.72	1.83	1.28-2.38	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-RdF43	Filter	Bq/sample	Cesium-137	1.04	0.996	0.697-1.295	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20- RdF43	Filter	Bq/sample	Cobalt-57	0.00126		False Pos Test	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20- RdF43	Filter	Bq/sample	Cobalt-60	1.85	1.73	1.21-2.25	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20- RdF43	Filter	Bq/sample	Manganese-54	1.64	1.40	0.98-1.82	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-RdF43	Filter	Bq/sample	Plutonium-238	0.0917	0.0867	0.0607-0.1127	Acceptable

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MAPEP	4th/2020	12/14/20	MAPEP-20-RdF43	Filter	Bq/sample	Plutonium-239/240	0.0019	0.0017	Sens.Evaluation	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-RdF43	Filter	Bq/sample	Strontium-90	1.790	2.080	1.46-2.70	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20- RdF43	Filter	Bq/sample	Uranium-234/233	0.1820	0.175	0.123-0.228	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20- RdF43	Filter	Bq/sample	Uranium-238	0.1860	0.182	0.127-0.237	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20- RdF43	Filter	Bq/sample	Zinc-65	2.29	2.00	1.40-2.60	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20- RdV43	Vegetation	Bq/sample	Americium-241	0.1040	0.103	0.072-0.134	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-RdV43	Vegetation	Bq/sample	Cesium-134	4.5	4.94	3.46-6.42	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-RdV43	Vegetation	Bq/sample	Cesium-137	0.0134		False Pos Test	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20- RdV43	Vegetation	Bq/sample	Cobalt-57	6.70	6.67	4.67-8.67	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20- RdV43	Vegetation	Bq/sample	Cobalt-60	4.27	4.13	2.89-5.37	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20- RdV43	Vegetation	Bq/sample	Manganese-54	6.04	5.84	4.09-7.59	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20- RdV43	Vegetation	Bq/sample	Plutonium-238	0.0002	0.001	Sens. Evaluation	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-RdV43	Vegetation	Bq/sample	Plutonium-239/240	0.05370	0.0624	0.0437-0.0811	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-RdV43	Vegetation	Bq/sample	Strontium-90	1.07	1.39	0.97-1.81	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20- RdV43	Vegetation	Bq/sample	Uranium-234/233	0.1270	0.1150	0.081-0.150	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20- RdV43	Vegetation	Bq/sample	Uranium-238	0.1260	0.1200	0.084-0.156	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20- RdV43	Vegetation	Bq/sample	Zinc-65	7.04	6.38	4.47-8.29	Acceptable
EZA	4th/2020	2/1/2021	E13179	Cartridge	pCi	Iodine-131	7.58E+01	7.81E+01	0.97	Acceptable
EZA	4th/2020	2/1/2021	E13180	Milk	pCi/L	Strontium-89	8.41E+01	8.97E+01	0.94	Acceptable
EZA	4th/2020	2/1/2021	E13180	Milk	pCi/L	Strontium-90	1.13E+01	1.30E+01	0.87	Acceptable
EZA	4th/2020	2/1/2021	E13181	Milk	pCi/L	Cerium-141	9.76E+01	1.00E+01	0.98	Acceptable
EZA	4th/2020	2/1/2021	E13181	Milk	pCi/L	Cobalt-58	8.58E+01	8.43E+01	1.02	Acceptable
EZA	4th/2020	2/1/2021	E13181	Milk	pCi/L	Cobalt-60	1.66E+02	1.52E+02	1.09	Acceptable
EZA	4th/2020	2/1/2021	E13181	Milk	pCi/L	Chromium-51	2.68E+02	2.53E+02	1.06	Acceptable
EZA	4th/2020	2/1/2021	E13181	Milk	pCi/L	Cesium-134	1.03E+02	1.08E+02	0.96	Acceptable
EZA	4th/2020	2/1/2021	E13181	Milk	pCi/L	Cesium-137	1.33E+02	1.27E+02	1.04	Acceptable
EZA	4th/2020	2/1/2021	E13181	Milk	pCi/L	Iron-59	1.28E+02	1.12E+02	1.14	Acceptable
EZA	4th/2020	2/1/2021	E13181	Milk	pCi/L	Iodine-131	9.44E+01	9.19E+01	1.08	Acceptable
EZA	4th/2020	2/1/2021	E13181	Milk	pCi/L	Manganese-54	1.49E+02	1.43E+02	1.04	Acceptable
EZA	4th/2020	2/1/2021	E13181	Milk	pCi/L	Zinc-65	2.17E+02	1.90E+02	1.14	Acceptable
EZA	4th/2020	2/1/2021	E13182	Water	pCi/L	Cerium-141	1.18E+02	1.06E+02	1.11	Acceptable
EZA	4th/2020	2/1/2021	E13182	Water	pCi/L	Cobalt-58	9.54E+01	8.92E+01	1.07	Acceptable
EZA	4th/2020	2/1/2021	E13182	Water	pCi/L	Cobalt-60	1.74E+02	1.61E+02	1.08	Acceptable
EZA	4th/2020	2/1/2021	E13182	Water	pCi/L	Chromium-51	3.05E+02	2.68E+02	1.14	Acceptable
EZA	4th/2020	2/1/2021	E13182	Water	pCi/L	Cesium-134	1.14E+02	1.14E+02	1.00	Acceptable
EZA	4th/2020	2/1/2021	E13182	Water	pCi/L	Cesium-137	1.37E+02	1.35E+02	1.02	Acceptable
EZA	4th/2020	2/1/2021	E13182	Water	pCi/L	Iron-59	1.37E+02	1.19E+02	1.16	Acceptable
EZA	4th/2020	2/1/2021	E13182	Water	pCi/L	Iodine-131	9.72E+01	9.57E+01	1.02	Acceptable
EZA	4th/2020	2/1/2021	E13182	Water	pCi/L	Manganese-54	1.65E+02	1.51E+02	1.09	Acceptable
EZA	4th/2020	2/1/2021	E13182	Water	pCi/L	Zinc-65	2.29E+02	2.01E+02	1.14	Acceptable

Table 6.1-2
2020 ECKERT & ZIEGLER ANALYTICS PERFORMANCE EVALUATION RESULTS

Report Date	Sample Number	Sample Media	Unit	Analyte / Nuclide	GEL Value	Known value	Acceptance Range/ Ratio	Evaluation
05/08/20	E13167	Cartridge	pCi	Iodine-131	9.37E+01	9.12E+01	1.03	Acceptable
05/08/20	E13168	Milk	pCi/L	Strontium-89	9.15E+01	9.55E+01	0.96	Acceptable
05/08/20	E13168	Milk	pCi/L	Strontium-90	1.51E+02	1.43E+02	0.62	Acceptable
05/08/20	E13169	Milk	pCi/L	Cerium-141	1.99E+02	1.84E+02	1.08	Acceptable
05/08/20	E13169	Milk	pCi/L	Cobalt-58	1.96E+02	1.89E+02	1.03	Acceptable
05/08/20	E13169	Milk	pCi/L	Cobalt-60	2.33E+02	2.29E+02	1.02	Acceptable
05/08/20	E13169	Milk	pCi/L	Chromium-51	3.84E+02	3.76E+02	1.02	Acceptable
05/08/20	E13169	Milk	pCi/L	Cesium-134	1.36E+02	1.49E+02	0.91	Acceptable
05/08/20	E13169	Milk	pCi/L	Cesium-137	1.91E+02	1.80E+02	1.06	Acceptable
05/08/20	E13169	Milk	pCi/L	Manganese-54	2.31E+02	2.10E+02	1.1	Acceptable
05/08/20	E13169	Milk	pCi/L	Iron-59	1.82E+02	1.63E+02	1.12	Acceptable
05/08/20	E13169	Milk	pCi/L	Zinc-65	2.69E+02	2.52E+02	1.07	Acceptable
05/08/20	E13170	Water	pCi/L	Cerium-141	2.11E+02	1.90E+02	1.11	Acceptable
05/08/20	E13170	Water	pCi/L	Cesium-134	1.53E+02	1.54E+02	0.99	Acceptable
05/08/20	E13170	Water	pCi/L	Cesium-137	2.08E+02	1.85E+02	1.12	Acceptable
05/08/20	E13170	Water	pCi/L	Chromium-51	4.34E+02	3.88E+02	1.12	Acceptable
05/08/20	E13170	Water	pCi/L	Cobalt-58	2.21E+02	1.96E+02	1.13	Acceptable
05/08/20	E13170	Water	pCi/L	Cobalt-60	2.59E+02	2.36E+02	1.10	Acceptable
05/08/20	E13170	Water	pCi/L	Iodine-131	1.02E+02	9.29E+01	1.1	Acceptable
05/08/20	E13170	Water	pCi/L	Iron-59	1.79E+02	1.68E+02	1.06	Acceptable
05/08/20	E13170	Water	pCi/L	Manganese-54	2.48E+02	2.16E+02	1.15	Acceptable
05/08/20	E13170	Water	pCi/L	Zinc-65	3.05E+02	2.61E+02	1.17	Acceptable
07/31/20	E13171	Cartridge	pCi	Iodine-131	9.68E+01	9.19E+01	1.05	Acceptable
07/31/20	E13172	Milk	pCi/L	Strontium-89	8.67E+01	8.81E+01	0.98	Acceptable
07/31/20	E13172	Milk	pCi/L	Strontium-90	1.06E+01	1.27E+01	0.83	Acceptable
07/31/20	E13173	Milk	pCi/L	Cerium-141	1.29E+02	1.16E+02	1.11	Acceptable
07/31/20	E13173	Milk	pCi/L	Cobalt-58	1.04E+02	1.00E+02	1.03	Acceptable
07/31/20	E13173	Milk	pCi/L	Cobalt-60	2.00E+02	1.95E+02	1.02	Acceptable
07/31/20	E13173	Milk	pCi/L	Chromium-51	2.91E+02	2.56E+02	1.14	Acceptable
07/31/20	E13173	Milk	pCi/L	Cesium-134	1.40E+02	1.46E+02	0.96	Acceptable

Report Date	Sample Number	Sample Media	Unit	Analyte / Nuclide	GEL Value	Known value	Acceptance Range/ Ratio	Evaluation
07/31/20	E13173	Milk	pCi/L	Cesium-137	1.09E+02	1.04E+02	1.05	Acceptable
07/31/20	E13173	Milk	pCi/L	Iron-59	1.09E+02	1.01E+02	1.08	Acceptable
07/31/20	E13173	Milk	pCi/L	Iodine-131	8.31E+01	8.15E+01	1.02	Acceptable
07/31/20	E13173	Milk	pCi/L	Manganese-54	1.41E+02	1.34E+02	1.05	Acceptable
07/31/20	E13173	Milk	pCi/L	Zinc-65	2.48E+02	2.25E+02	1.10	Acceptable
07/31/20	E13174	Water	pCi/L	Cerium-141	1.23E+02	1.17E+02	1.05	Acceptable
07/31/20	E13174	Water	pCi/L	Cobalt-58	1.05E+02	1.02E+02	1.03	Acceptable
07/31/20	E13174	Water	pCi/L	Cobalt-60	2.05E+02	1.98E+02	1.04	Acceptable
07/31/20	E13174	Water	pCi/L	Chromium-51	2.76E+02	2.59E+02	1.06	Acceptable
07/31/20	E13174	Water	pCi/L	Cesium-134	1.36E+02	1.48E+02	0.92	Acceptable
07/31/20	E13174	Water	pCi/L	Cesium-137	1.04E+02	1.05E+02	0.99	Acceptable
07/31/20	E13174	Water	pCi/L	Iron-59	1.05E+02	1.02E+02	1.03	Acceptable
07/31/20	E13174	Water	pCi/L	Iodine-131	9.10E+01	8.05E+01	1.13	Acceptable
07/31/20	E13174	Water	pCi/L	Manganese-54	1.47E+02	1.35E+02	1.09	Acceptable
07/31/20	E13174	Water	pCi/L	Zinc-65	2.49E+02	2.27E+02	1.10	Acceptable
11/10/20	E13175	Cartridge	pCi	Iodine-131	7.96E+01	7.67E+01	1.04	Acceptable
11/10/20	E13176	Milk	pCi/L	Strontium-89	1.13E+02	9.54E+01	1.18	Acceptable
11/10/20	E13176	Milk	pCi/L	Strontium-90	9.47E+01	1.28E+02	0.74	Acceptable
11/10/20	E13177	Milk	pCi/L	Cerium-141	1.47E+02	1.50E+02	0.98	Acceptable
11/10/20	E13177	Milk	pCi/L	Cobalt-58	1.81E+02	1.80E+02	1.01	Acceptable
11/10/20	E13177	Milk	pCi/L	Cobalt-60	3.85E+02	3.79E+02	1.02	Acceptable
11/10/20	E13177	Milk	pCi/L	Chromium-51	4.11E+02	3.72E+02	1.10	Acceptable
11/10/20	E13177	Milk	pCi/L	Cesium-134	1.82E+02	2.00E+02	0.91	Acceptable
11/10/20	E13177	Milk	pCi/L	Cesium-137	2.58E+02	2.50E+02	1.03	Acceptable
11/10/20	E13177	Milk	pCi/L	Iron-59	2.29E+02	2.00E+02	1.14	Acceptable
11/10/20	E13177	Milk	pCi/L	Iodine-131	9.49E+01	9.50E+01	1.00	Acceptable
11/10/20	E13177	Milk	pCi/L	Manganese-54	1.96E+02	1.80E+02	1.09	Acceptable
11/10/20	E13177	Milk	pCi/L	Zinc-65	3.04E+02	2.70E+02	1.13	Acceptable
11/10/20	E13178	Water	pCi/L	Cerium-141	1.58E+02	1.51E+02	1.05	Acceptable
11/10/20	E13178	Water	pCi/L	Cobalt-58	1.90E+02	1.80E+02	1.05	Acceptable
11/10/20	E13178	Water	pCi/L	Cobalt-60	4.04E+02	3.80E+02	1.06	Acceptable
11/10/20	E13178	Water	pCi/L	Chromium-51	3.45E+02	3.73E+02	0.92	Acceptable
11/10/20	E13178	Water	pCi/L	Cesium-134	1.81E+02	2.01E+02	0.9	Acceptable
11/10/20	E13178	Water	pCi/L	Cesium-137	2.63E+02	2.51E+02	1.05	Acceptable
11/10/20	E13178	Water	pCi/L	Iron-59	2.26E+02	2.01E+02	1.12	Acceptable
11/10/20	E13178	Water	pCi/L	Iodine-131	9.80E+01	9.82E+01	1.00	Acceptable

Report Date	Sample Number	Sample Media	Unit	Analyte / Nuclide	GEL Value	Known value	Acceptance Range/ Ratio	Evaluation
11/10/20	E13178	Water	pCi/L	Manganese-54	2.06E+02	1.81E+02	1.14	Acceptable
11/10/20	E13178	Water	pCi/L	Zinc-65	3.02E+02	2.71E+02	1.12	Acceptable
2/1/2021	E13179	Cartridge	pCi	Iodine-131	7.58E+01	7.81E+01	0.97	Acceptable
2/1/2021	E13180	Milk	pCi/L	Strontium-89	8.41E+01	8.97E+01	0.94	Acceptable
2/1/2021	E13180	Milk	pCi/L	Strontium-90	1.13E+01	1.30E+01	0.87	Acceptable
2/1/2021	E13181	Milk	pCi/L	Cerium-141	9.76E+01	1.00E+01	0.98	Acceptable
2/1/2021	E13181	Milk	pCi/L	Cobalt-58	8.58E+01	8.43E+01	1.02	Acceptable
2/1/2021	E13181	Milk	pCi/L	Cobalt-60	1.66E+02	1.52E+02	1.09	Acceptable
2/1/2021	E13181	Milk	pCi/L	Chromium-51	2.68E+02	2.53E+02	1.06	Acceptable
2/1/2021	E13181	Milk	pCi/L	Cesium-134	1.03E+02	1.08E+02	0.96	Acceptable
2/1/2021	E13181	Milk	pCi/L	Cesium-137	1.33E+02	1.27E+02	1.04	Acceptable
2/1/2021	E13181	Milk	pCi/L	Iron-59	1.28E+02	1.12E+02	1.14	Acceptable
2/1/2021	E13181	Milk	pCi/L	Iodine-131	9.44E+01	9.19E+01	1.08	Acceptable
2/1/2021	E13181	Milk	pCi/L	Manganese-54	1.49E+02	1.43E+02	1.04	Acceptable
2/1/2021	E13181	Milk	pCi/L	Zinc-65	2.17E+02	1.90E+02	1.14	Acceptable
2/1/2021	E13182	Water	pCi/L	Cerium-141	1.18E+02	1.06E+02	1.11	Acceptable
2/1/2021	E13182	Water	pCi/L	Cobalt-58	9.54E+01	8.92E+01	1.07	Acceptable
2/1/2021	E13182	Water	pCi/L	Cobalt-60	1.74E+02	1.61E+02	1.08	Acceptable
2/1/2021	E13182	Water	pCi/L	Chromium-51	3.05E+02	2.68E+02	1.14	Acceptable
2/1/2021	E13182	Water	pCi/L	Cesium-134	1.14E+02	1.14E+02	1.00	Acceptable
2/1/2021	E13182	Water	pCi/L	Cesium-137	1.37E+02	1.35E+02	1.02	Acceptable
2/1/2021	E13182	Water	pCi/L	Iron-59	1.37E+02	1.19E+02	1.16	Acceptable
2/1/2021	E13182	Water	pCi/L	Iodine-131	9.72E+01	9.57E+01	1.02	Acceptable
2/1/2021	E13182	Water	pCi/L	Manganese-54	1.65E+02	1.51E+02	1.09	Acceptable
2/1/2021	E13182	Water	pCi/L	Zinc-65	2.29E+02	2.01E+02	1.14	Acceptable

TABLE 6.1-3
REMP INTRA-LABORATORY DATA SUMMARY: BIAS AND PRECISION BY MATRIX

REMP 2020	Bias Criteria (+ / - 25%)		Precision Criteria (Note 1)	
	WITHIN CRITERIA	OUTSIDE CRITERIA	WITHIN CRITERIA	OUTSIDE CRITERIA
MILK				
Gas Flow Sr 2nd count	46	0	57	0
Gas Flow Total Strontium	16	0	16	0
Gamma Spec Liquid RAD A-013 with Ba, La	28	0	82	0
Gamma Spec Liquid RAD A-013 with Iodine	0	0	3	0
SOLID				
Gamma Spec Solid RAD A-013	9	0	12	0
LSC Nickel 63	4	0	4	0
Gas Flow Sr 2nd count	4	0	7	0
Gas Flow Total Strontium	3	0	4	0
Gamma Spec Solid RAD A-013 with Iodine	22	0	48	0
FILTER				
Gross A & B	512	0	362	0
Gamma Spec Filter	43	0	83	0
LIQUID				
Alpha Spec Uranium	1	0	1	0
Tritium	212	0	271	0
LSC Iron-55	17	0	15	0
LSC Nickel 63	17	0	15	0
Gamma Iodine-131	6	0	7	0
Alpha Spec Plutonium	1	0	1	0
Gas Flow Sr 2nd count	2	0	3	0
Alpha Spec Am241 Curium	1	0	1	0
Gas Flow Total Strontium	16	0	14	0
Gross Alpha Non Vol Beta	33	0	71	0
Gamma Spec Liquid RAD A-013 with Ba, La	76	0	191	0
Gamma Spec Liquid RAD A-013 with Iodine	25	0	80	0
TISSUE				
Gamma Spec Solid RAD A-013	40	0	49	0
Gas Flow Sr 2nd count	12	0	10	0
Gas Flow Total Strontium	8	0	7	0
Gamma Spec Solid RAD A-013 with Iodine	21	0	21	0
VEGETATION				
Gamma Spec Solid RAD A-013	13	0	13	0
Gas Flow Sr 2nd count	10	0	11	0
Gamma Spec Solid RAD A-013 with Iodine	83	0	110	0
AIR CHARCOAL				
Carbon-14 (Ascarite/Soda Lime Filter per Liter)	35	0	35	0

REMP 2020	Bias Criteria (+ / - 25%)		Precision Criteria (Note 1)	
	WITHIN CRITERIA	OUTSIDE CRITERIA	WITHIN CRITERIA	OUTSIDE CRITERIA
DRINKING WATER				
Tritium	36	0	39	0
LSC Iron-55	14	0	16	0
LSC Nickel 63	14	0	16	0
Gamma Iodine-131	31	0	22	0
Gas Flow Sr 2nd count	15	0	14	0
Gas Flow Total Strontium	13	0	15	0
Gross Alpha Non Vol Beta	77	0	82	0
Gamma Spec Liquid RAD A-013 with Ba, La	21	0	73	0
Gamma Spec Liquid RAD A-013 with Iodine	0	0	6	0
Total	**1537**		**1887**	

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 6.1-4
ALL RADIOLOGICAL INTRA-LABORATORY DATA SUMMARY:
BIAS AND PRECISION BY MATRIX

Total Radiological 2020	Bias Criteria (+ / - 25%		Precision Criteria (Note 1)	
	WITHIN CRITERIA	OUTSIDE CRITERIA	WITHIN CRITERIA	OUTSIDE CRITERIA
MILK				
Gamma Spec Liquid RAD A-013	5	0	5	0
Gamma Iodine-129	6	0	6	0
Gamma Iodine-131	5	0	116	0
Gas Flow Sr 2nd count	46	0	57	0
Gas Flow Strontium 90	10	0	11	0
Gas Flow Total Strontium	16	0	16	0
Gamma Spec Liquid RAD A-013 with Ba, La	28	0	82	0
Gamma Spec Liquid RAD A-013 with Iodine	5	0	7	0
SOLID				
Gas Flow Radium 228	71	0	75	0
Alpha Spec Neptunium	471	0	455	0
Tritium	345	0	406	0
Tritium by Pyrolysis	0	0	1	0
Carbon-14	232	0	283	0
Carbon-14 by Pyrolysis	0	0	1	0
LSC Iron-55	135	0	146	0
Alpha Spec Polonium Solid	37	0	52	0
Gamma Nickel 59 RAD A-022	140	0	156	0
LSC Chlorine-36 in Solids	1	0	2	0
Gamma Spec Ra226 RAD A-013	22	0	25	0
Gamma Spec Solid RAD A-013	1122	0	1398	0
LSC Nickel 63	201	0	215	0
LSC Plutonium	219	0	234	0
Technetium-99	543	0	564	0
Gamma Spec Liquid RAD A-013	1	0	1	0
Gross Alpha Beta Soil Leach	31	0	31	0
ICP-MS Technetium-99 in Soil	6	0	3	0
LSC Selenium 79	15	0	19	0
Total Activity,	8	0	13	0
Tritium	26	0	27	0
Alpha Spec Am243	89	0	108	0
Gamma Iodine-129	93	0	160	0
Gas Flow Lead 210	19	0	23	0
Alpha Spec Uranium	746	0	900	0
LSC Promethium 147	1	0	4	0
LSC, Rapid Strontium 89 and 90	67	0	74	0
Alpha Spec Thorium	470	0	567	0

Total Radiological 2020	Bias Criteria (+ / - 25%		Precision Criteria (Note 1)	
	WITHIN CRITERIA	OUTSIDE CRITERIA	WITHIN CRITERIA	OUTSIDE CRITERIA
ICP-MS Uranium-233, 234 in Solid	55	0	57	0
LSC Sulfur 35	2	0	3	0
Alpha Spec Neptunium (pCi/Sample)	3	0	3	0
Alpha Spec Plutonium	509	0	486	0
ICP-MS Technetium-99 Prep in Soil	6	0	3	0
LSC Calcium 45	0	0	1	0
Alpha Spec Plutonium	158	0	232	0
Alpha Spec Radium 226	34	0	45	0
Dissolution Soil Prep	4	0	4	0
Gas Flow Sr 2nd count	27	0	35	0
Gas Flow Strontium 90	335	0	308	0
Gas Flow Total Radium	2	0	2	0
Lucas Cell Radium 226	98	0	116	0
Alpha Spec Am241 Curium	438	0	483	0
Alpha Spec Total Uranium	62	0	64	0
Gas Flow Total Strontium	51	0	53	0
ICP-MS Uranium-233, 234 Prep in Solid	57	0	59	0
ICP-MS Uranium-235, 236, 238 in Solid	57	0	65	0
Alpha Spec Polonium Solid	3	0	3	0
Gamma Spec Solid RAD A-013 with Iodine	22	0	48	0
GFC Chlorine-36 in Solids	13	0	19	0
Gamma Spec Solid RAD A-013 (pCi/Sample)	6	0	5	0
Technetium-99	3	0	3	0
Tritium	1	0	3	0
Alpha Spec Am241 (pCi/Sample)	3	0	3	0
ICP-MS Uranium-234, 235, 236, 238 in Solid	223	0	264	0
ICP-MS Uranium-235, 236, 238 Prep in Solid	65	0	81	0
Alpha Spec Thorium	2	0	3	0
Gross Alpha/Beta (Am/Cs Calibration) Solid	0	0	2	0
ICP-MS U-234, 235, 236, 238 Prep per sample	13	0	13	0
Gross Alpha/Beta	403	0	502	0
Alpha Spec Plutonium	3	0	3	0
Gas Flow Strontium 90	3	0	3	0
Gross Alpha/Beta (Americium Calibration) Solid	1	0	1	0
ICP-MS Uranium-234, 235, 236, 238 Prep in Solid	93	0	149	0
Gross Alpha Beta (F,U)	30	0	33	0
FILTER				
Alpha Spec Polonium	0	0	8	0
Gamma I-131, filter	5	0	5	0

Total Radiological 2020	Bias Criteria (+ / - 25%		Precision Criteria (Note 1)	
	WITHIN CRITERIA	OUTSIDE CRITERIA	WITHIN CRITERIA	OUTSIDE CRITERIA
Alpha Spec Neptunium	69	0	109	0
LSC Plutonium Filter	74	0	129	0
Tritium	34	0	242	0
Carbon-14 Direct Count	0	0	54	0
Carbon-14	1	0	97	0
ICP-MS Tc-99 in Filter	0	0	5	0
Nickel-63	0	0	25	0
LSC Iron-55	76	0	94	0
Gamma Nickel 59 RAD A-022	84	0	110	0
Alpha Spec Californium FPL	12	0	12	0
LSC Nickel 63	71	0	98	0
Technetium-99	7	0	103	0
Gamma Spec Filter RAD A-013	158	0	246	0
ICP-MS Tc-99 Prep in Filter	0	0	9	0
Alphaspec Np Filter per Liter	19	0	24	0
Alphaspec Pu Filter per Liter	19	0	33	0
Gamma Iodine-129	1	0	79	0
Alpha Spec Am243	17	0	38	0
Gas Flow Lead 210	1	0	6	0
Alpha Spec Uranium	49	0	118	0
LSC Promethium 147	0	0	1	0
LSC, Rapid Strontium 89 and 90	89	0	107	0
Alpha Spec Thorium	34	0	91	0
Gas Flow Radium 228	2	0	16	0
Alpha Spec Plutonium	48	0	121	0
ICP-MS Uranium-233, 234 in Filter	1	0	10	0
LSC Sulfur 35	0	0	1	0
Alpha Spec Plutonium	96	0	176	0
Alpha Spec Plutonium	11	0	11	0
Alpha Spec Polonium,(Filter/Liter)	0	0	2	0
Alpha Spec Radium 226	0	0	13	0
Gas Flow Sr 2nd Count	34	0	60	0
Gas Flow Strontium 90	57	0	101	0
Gas Flow Total Radium	1	0	5	0
LSC Plutonium 241 Filter per Liter	20	0	45	0
Lucas Cell Radium-226	0	0	12	0
Alpha Spec Am241Curium	101	0	181	0
ICP-MS Uranium-233, 234 Prep in Filter	1	0	9	0
ICP-MS Uranium-235, 236, 238 in Filter	4	0	13	0
Total Activity in Filter,	0	0	51	0

Total Radiological 2020	Bias Criteria (+ / - 25%		Precision Criteria (Note 1)	
	WITHIN CRITERIA	OUTSIDE CRITERIA	WITHIN CRITERIA	OUTSIDE CRITERIA
Alphaspec Am241 Curium Filter per Liter	33	0	76	0
Tritium	96	0	130	0
GFC Chlorine-36 in Filters	0	0	1	0
Gamma Spec Filter RAD A-013 Direct Count	3	0	9	0
Carbon-14	22	0	35	0
GFC Chlorine-36 in Filters PL	1	0	1	0
Gross A & B (Americium Calibration) Liquid	1	0	42	0
Direct Count-Gross Alpha/Beta	89	0	0	0
Gross Alpha/Beta	41	0	57	0
ICP-MS Uranium-234, 235, 236, 238 in Filter	7	0	55	0
ICP-MS Uranium-235, 236, 238 Prep in Filter	4	0	12	0
Alpha Spec U	33	0	77	0
Gross A & B	568	0	443	0
LSC Iron-55	8	0	17	0
Technetium-99	29	0	49	0
Gas Flow Sr-90	19	0	45	0
LSC Nickel 63	37	0	45	0
Gamma Spec Charcoal	11	0	11	0
Gas Flow Pb-210	13	0	34	0
Gas Flow Ra-228	13	0	28	0
Gross Alpha Beta (Flame, Unflame)	10	0	10	0
Direct Count- Alpha/Beta (Americium Calibration)	21	0	0	0
Gamma Iodine 129	8	0	8	0
ICP-MS Uranium-234, 235, 236, 238 Prep in Filter	3	0	27	0
Gamma Spec Filter	99	0	154	0
Lucas Cell Ra-226	8	0	38	0
Alpha Spec Thorium	23	0	47	0
LIQUID				
Alpha Spec Uranium	496	0	756	0
Alpha Spec Polonium	19	0	20	0
Alpha Spec Neptunium	172	0	236	0
Tritium	1276	0	1383	0
Carbon-14	186	0	219	0
Plutonium	131	0	151	0
Chlorine-36 in Liquids	4	0	5	0
Iodine-131	6	0	4	0
LSC Iron-55	100	0	167	0
Gamma Nickel 59 RAD A-022	27	0	43	0
Gamma Iodine 131 RAD A-013	2	0	2	0

Total Radiological 2020	Bias Criteria (+ / - 25%		Precision Criteria (Note 1)	
	WITHIN CRITERIA	OUTSIDE CRITERIA	WITHIN CRITERIA	OUTSIDE CRITERIA
LSC Nickel 63	144	0	197	0
LSC Radon 222	18	0	22	0
Technetium-99	673	0	720	0
Gamma Spec Liquid RAD A-013	859	0	970	0
Alpha Spec Total U RAD A-011	24	0	40	0
LSC Selenium 79	38	0	38	0
Total Activity,	15	0	20	0
Alpha Spec Am243	20	0	26	0
Gamma Iodine-129	145	0	182	0
Gamma Iodine-131	6	0	7	0
ICP-MS Technetium-99 in Water	8	0	9	0
Gas Flow Lead 210	11	0	16	0
Gross Alpha, Beta	5	0	5	0
LSC Promethium 147	22	0	22	0
LSC, Rapid Strontium 89 and 90	9	0	15	0
Alpha Spec Thorium	237	0	316	0
Gas Flow Radium 228	14	0	7	0
Gas Flow Radium 228	682	0	728	0
Alpha Spec Plutonium	354	0	482	0
LSC Sulfur 35	17	0	17	0
Alpha Spec Plutonium	41	0	51	0
Alpha Spec Radium 226	32	0	37	0
Gas Flow Sr 2nd count	102	0	161	0
Gas Flow Strontium 90	511	0	584	0
Gas Flow Strontium 90	5	0	5	0
Gas Flow Total Radium	428	0	328	0
ICP-MS Technetium-99 Prep in Water	8	0	9	0
ICP-MS Uranium-233, 234 in Liquid	7	0	11	0
LSC Calcium 45	15	0	15	0
Lucas Cell Radium 226	372	0	597	0
Lucas Cell Radium-226	12	0	13	0
Chlorine-36 in Liquids	19	0	21	0
Alpha Spec Am241 Curium	317	0	427	0
Gas Flow Total Strontium	100	0	103	0
Gross Alpha Non Vol Beta	868	0	1213	0
LSC Phosphorus-32	4	0	4	0
ICP-MS Uranium-233, 234 Prep in Liquid	5	0	9	0
Tritium in Drinking Water by EPA 906.0	5	0	5	0
Gamma Spec Liquid RAD A-013 with Ba, La	78	0	203	0
Gamma Spec Liquid RAD A-013 with Iodine	97	0	174	0
Gas Flow Strontium 89 & 90	2	0	3	0

Total Radiological 2020	Bias Criteria (+ / - 25%		Precision Criteria (Note 1)	
	WITHIN CRITERIA	OUTSIDE CRITERIA	WITHIN CRITERIA	OUTSIDE CRITERIA
ICP-MS Uranium-235, 236, 238 in Liquid	11	0	13	0
Gas Flow Total Alpha Radium	15	0	15	0
Gross Alpha Co-precipitation	3	0	28	0
ICP-MS Uranium-235, 236, 238 Prep in Liquid	7	0	11	0
Gross Alpha/Beta	0	0	1	0
ICP-MS Uranium-234, 235, 236, 238 in Liquid	147	0	132	0
Gross Alpha Beta (Flame, Unflame)	284	0	303	0
Gross Alpha Beta (Americium Calibration) Liquid	47	0	95	0
ICP-MS Uranium-234, 235, 236, 238 Prep in Liquid	69	0	66	0
Alpha/Beta (Americium Calibration) Drinking Water	38	0	37	0
TISSUE				
Gamma Spec Solid RAD A-013	48	0	63	0
Alpha Spec Uranium	5	0	6	0
Alpha Spec Plutonium	5	0	5	0
Gas Flow Sr 2nd count	12	0	10	0
Gas Flow Strontium 90	7	0	6	0
Alpha Spec Am241 Curium	3	0	3	0
Gas Flow Total Strontium	8	0	7	0
Gamma Spec Solid RAD A-013 with Iodine	21	0	21	0
Gross Alpha/Beta	3	0	3	0
VEGETATION				
Carbon-14	3	0	2	0
Gamma Spec Solid RAD A-013	39	0	36	0
Tritium	2	0	1	0
Gas Flow Lead 210	0	0	5	0
Alpha Spec Uranium	25	0	21	0
Alpha Spec Thorium	10	0	10	0
Alpha Spec Plutonium	24	0	17	0
Gas Flow Sr 2nd count	10	0	11	0
Gas Flow Strontium 90	21	0	14	0
Gas Flow Total Radium	3	0	5	0
Alpha Spec Am241 Curium	6	0	5	0
Gamma Spec Solid RAD A-013 with Iodine	83	0	110	0
Gamma Spec Solid RAD A-013 (pCi/Sample)	3	0	3	0
Alpha Spec Am241 (pCi/Sample)	3	0	3	0
Alpha Spec Uranium	0	0	3	0
Gross Alpha/Beta	5	0	8	0
Alpha Spec Plutonium	0	0	3	0

Total Radiological 2020	Bias Criteria (+ / - 25%		Precision Criteria (Note 1)	
	WITHIN CRITERIA	OUTSIDE CRITERIA	WITHIN CRITERIA	OUTSIDE CRITERIA
Gas Flow Strontium 90	6	0	3	0
AIR CHARCOAL				
Gamma Iodine-129	19	0	8	0
Carbon-14	15	0	15	0
Carbon-14 (Ascarite/Soda Lime Filter per Liter)	35	0	35	0
Gamma Spec Charcoal	15	0	15	0
Gamma Iodine 129	15	0	15	0
DRINKING WATER				
Alpha Spec Uranium	2	0	1	0
Tritium	38	0	41	0
LSC Iron-55	14	0	16	0
LSC Nickel 63	14	0	16	0
LSC Radon 222	9	0	10	0
Gamma Spec Liquid RAD A-013	4	0	4	0
Gamma Iodine-129	3	0	5	0
Gamma Iodine-131	31	0	22	0
Gas Flow Lead 210	1	0	1	0
Gas Flow Radium 228	43	0	46	0
Gas Flow Radium 228	0	0	3	0
Gas Flow Sr 2nd count	15	0	14	0
Gas Flow Strontium 90	12	0	13	0
Gas Flow Total Radium	2	0	1	0
Lucas Cell Radium 226	3	0	3	0
Lucas Cell Radium-226	48	0	46	0
Gamma Spec Drinking Water RAD A-013	35	0	28	0
Gas Flow Total Strontium	13	0	15	0
Gross Alpha Non Vol Beta	175	0	188	0
Tritium in Drinking Water by EPA 906.0	44	0	44	0
Gamma Spec Liquid RAD A-013 with Ba, La	21	0	73	0
Gamma Spec Liquid RAD A-013 with Iodine	0	0	6	0
Gas Flow Strontium 89 & 90	18	0	4	0
Alpha/Beta (Americium Calibration) Drinking Water	13	0	11	0
ECLS-R-GA NJ 48 Hr Rapid Gross Alpha	5	0	5	0
Total	**20799**		**26108**	

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 6.1-5
2020 CORRECTIVE ACTION REPORT SUMMARY

CORRECTIVE ACTION ID# & PE FAILURE	DISPOSITION
CARR 201214-1296 **ISO Documentation of PT Failure in MAPEP 43 for:** • Fe-55 in soil	**Root Cause Analysis** Upon receipt of the PT report, an investigation was initiated by the Quality Department and a Corrective Action (CARR) team assembled. The team consisted of representatives from the affected areas. The sample preparation and analytical processes were reviewed. This included review of reagents and standards used in the sample preparation steps, calibration records, process control samples, and interviews with the analysts. The investigation determined that the laboratory met all quality control criteria specified in the method. Additionally, all internal procedures and policies were performed as required. These failures were tracked through GEL's internal non-conformance system. Iron-55: The laboratory reviewed the data and noted that the tracer recoveries for this analysis were lower than typical soil tracer recoveries. The lower tracer recoveries contributed to an uncertainty of approximately 25%. **The sample was recounted and recovered at 97% of the known value**. **Permanent Corrective/Preventive Actions or Improvements** None at this time. The laboratory will continue to monitor the recoveries of these parameters to ensure that there are no continued issues in the processes.
CARR 200902-1287 **ISO Documentation of PT Failure in RAD-122 in drinking water for:** • Ba-133 • Co-60	**Root Cause Analysis** The data was reviewed and no anomalies were noted. The batch duplicate result from the original analysis met the acceptance criteria of the study and replication criteria of the laboratory with RPDs of <10% for both isotopes. Laboratory processes were evaluated and no gross errors were found. The other reported analytes for this method were within the limits of the study. A definitive contributor to the slightly high bias could not be identified concluding that this was an isolated occurrence for these isotopes.

CORRECTIVE ACTION ID# & PE FAILURE	DISPOSITION
	Permanent Corrective/Preventive Actions or Improvements None at this time. The laboratory will continue to monitor the recoveries of these parameters to ensure that there are no continued issues in the processes.
CARR 200902-1278 **ISO Documentation of PT Failure in MRAD – 32 for:** • U-238 filter • Total U (mass) filter • U-234 water • Total U water	**Root Cause Analysis** Filter: The sample was analyzed at 20X. As part of the investigation, the sample was reanalyzed at 5X and the results were within acceptance limits. Water: The samples were reanalyzed, and the results were within the acceptance limits. In reviewing the data, the laboratory suspects a possible bias in the lower end of the calibration. **Permanent Corrective/Preventive Actions or Improvements** Filter: The laboratory will be analyzing the sample without dilutions. The dilutions will only be performed when necessary. Water: The laboratory will be adding another point to the lower end of the calibration to remove potential bias in that section of the calibration. The laboratory successfully analyzed these isotopes during the next round of MRAD samples.
CARR 200224-1274 **ISO Documentation of PT Failures in RAD-120 for:** • Sr-89 • Gross Alpha	**Root Cause Analysis** Strontium-89-A review of the data and the preparation processes did not reveal any errors or possible contributors to the high bias. In addition, the reported values are 117% and 114% of the reference value which are with the laboratory's standard acceptance criteria of +/- 25% for Laboratory Control Samples. Tritium-All data and laboratory processes were evaluated, and no errors were found. The Laboratory has concluded that this low bias was an isolated occurrence and that the overall process is within control. Iodine-131- The laboratory has reviewed the data and found no errors. All batch QC samples including a duplicate, met acceptability criteria. The laboratory will continue to investigate all steps of the analytical process. **Permanent Corrective/Preventive Actions or Improvements** The Laboratory has concluded that these positive biases were isolated occurrences and that the overall process is within control. The lab wil

CORRECTIVE ACTION ID# & PE FAILURE	DISPOSITION
	complete PT studies for these parameters as they become available to verify that these were isolated incidences.
CARR191212-1262 **ISO Documentation of PT Failures in MRAD-31** • Pb-212	**Root Cause Analysis** Upon receipt of the report, an investigation was initiated by our Quality Department and a Corrective Action (CARR) team assembled. The team consisted of representatives from the affected areas. The sample preparation and analytical processes were reviewed. This included review of reagents and standards used in the sample preparation steps, calibration records, process control samples, instruments used during analysis and interviews with the analysts. The investigation determined that the laboratory met all quality control criteria specified in the methods. Additionally, all internal procedures and processes were evaluated and found to have been performed as required. These failures were tracked through GEL's internal non-conformance system. **Lead-212:** The data was reviewed and no anomalies noted. The Duplicate result of the original analysis met the acceptance criteria of the study and replication criteria of the laboratory. Laboratory processes were evaluated and no errors were found. The other reported analytes for the method were within the limits of the study. A definitive contributor to the slightly high bias could not be identified concluding that this was an isolated occurrence. **Permanent Corrective/Preventive Actions or Improvements** None at this time. The laboratory will continue to monitor the recoveries of these parameters to ensure that there are no continued issues in the processes
CARR191212-1265 **ISO Documentation of PT Failures in MAPEP-19-MaW41** • Ra-226	**Root Cause Analysis** Upon receipt of the report, an investigation was initiated by our Quality Department and a Corrective Action (CARR) team assembled. The team consisted of representatives from the affected laboratory areas. The sample preparation and analytical processes were reviewed. This included review of reagents and standards used in the sample preparation steps, calibration records, process control samples, and interviews with the analysts. The investigation determined that the laboratory met all quality control criteria specified in each method. Additionally, all internal procedures and policies were performed as required. These failures were tracked through GEL's internal non-conformance system.

CORRECTIVE ACTION ID# & PE FAILURE	DISPOSITION
	The laboratory reviewed the data and no errors were found. The preparation and counting processes were reviewed and no anomalies were noted. It was noted that verification counts of the sample preparations were within limits and met laboratory replication criteria **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 in the batch. Subsequent analyses of these isotopes for drinking water were acceptable in other PT samples during the year.

6.2 Environmental TLD QA

Environmental dosimetry services for the reporting period of January – December 2020 were provided through Stanford Dosimetry, with TLD processing by the Environmental Dosimetry Company (EDC), Sterling, Massachusetts. The TLD systems at the Environmental Dosimetry Company (EDC) are calibrated and operated to ensure consistent and accurate evaluation of TLDs. The quality of the dosimetric results reported to EDC clients is ensured by in-house performance testing and independent performance testing by EDC clients.

The purpose of the dosimetry quality assurance program is to provide performance documentation of the routine processing of EDC dosimeters. Performance testing provides a statistical measure of the bias and precision of dosimetry processing against a reliable standard, which in turn points out any trends or performance changes. Dosimetry quality control tests are performed on EDC Panasonic 814 Environmental dosimeters. These tests include: (1) the in-house testing program conducted by the EDC QA Officer; and (2) independent test perform by EDC clients. In-house tests are performed using six pairs of 814 dosimeters. A pair is reported as an individual result and six pairs are reported as the mean result.

Excluded from this report are instrumentation checks. Although instrumentation checks represent an important aspect of the quality assurance program, they are not included as process checks in this report. Instrumentation checks represent between 5-10% of the TLDs processed.

Table 6.2-1 provides a summary of individual dosimeter results evaluated against the EDC internal acceptance criteria for high-energy photons (Cs-137) only. The internal acceptance (tolerance) criteria for the Panasonic Environmental dosimeters are: ± 15% for bias and ± 12.8% for precision. During this period, 100% (72/72) of the individual dosimeters evaluated against these criteria met the tolerance limits for accuracy and 100% (72/72) met the criterion for precision.

Table 6.2-2 provides the Bias + Standard deviation results for each group (N=6) of dosimeters evaluated against the internal tolerance criteria. Overall, 100% (12/12) of the dosimeter sets evaluated against the internal tolerance performance criteria met these criteria.

Table 6.2-3 presents the independent blind spike results for irradiated dosimeters provided by client utilities during this annual period. All results passed the performance acceptance criterion.

Table 6.2-4 presents the independent blind duplicate results for dosimeters co-located with field dosimeters provided by the client utility (Seabrook Station) during the annual period. All results passed the performance criteria of agreement to within 20% (within 3-sigma) of the field dosimeter.

TABLE 6.2-1

PERCENTAGE OF INDIVIDUAL DOSIMETERS THAT PASSED EDC INTERNAL CRITERIA JANUARY – DECEMBER 2020[(1), (2)]

Dosimeter Type	Number Tested	% Passed Bias Criteria	% Passed Precision Criteria
Panasonic Environmental	72	100	100

[(1)]This table summarizes results of tests conducted by EDC.
[(2)]Environmental dosimeter results are free in air.

TABLE 6.2-2

MEAN DOSIMETER ANALYSES (N=6) JANUARY – DECEMBER 2020[1], [2]

Process Date	Exposure Level	Mean Bias %	Standard Deviation %	Tolerance Limit +/-15%
4/28/2020	37	1.8	1.2	Pass
5/02/2020	94	2.9	1.4	Pass
5/20/2020	56	-0.5	1.4	Pass
7/28/2020	72	4.1	0.6	Pass
8/07/2020	111	4.0	1.3	Pass
9/24/2020	25	-4.6	1.2	Pass
10/24/2020	35	5.2	1.6	Pass
10/28/2020	60	1.6	0.7	Pass
11/18/2020	91	0.5	1.6	Pass
01/21/2021	31	3.8	1.7	Pass
02/09/2021	83	0.3	0.8	Pass
02/16/2021	46	5.3	1.5	Pass

[1] This table summarizes results of tests conducted by EDC for TLDs issued in 2020.
[2] Environmental dosimeter results are free in air.

TABLE 6.2-3

SUMMARY OF INDEPENDENT DOSIMETER TESTING JANUARY – DECEMBER 2020[1], [2]

Issuance Period	Client	Mean Bias %	Standard Deviation %	Pass / Fail
1st Qtr. 2020	Millstone	-3.8	3.0	Pass
2nd Qtr.2020	Seabrook	0.5	1.4	Pass
2nd Qtr.2020	Millstone	-3.0	1.6	Pass
3rd Qtr. 2020	Millstone	0.4	2.6	Pass
4th Qtr.2020	PSEG(PNNL)	-3.2	0.9	Pass
4th Qtr.2020	Seabrook	6.9	1.9	Pass
4th Qtr.2020	SONGS	-8.4	1.3	Pass
4th Qtr.2020	Millstone	3.0	1.9	Pass

[1] Performance criterion is +/- 15%.
[2] Blind spike irradiations using Cs-137

TABLE 6.2-4

SUMMARY OF INDEPENDENT BLIND DUPLICATE DOSIMETER TESTING
JANUARY – DECEMBER 2020[1]

Issuance Period	Client	Number Tested	Mean Bias %	Standard Deviation %	% Passed Precision Criteria
1st Qtr. 2020	Seabrook	12	1.3	4.9	Pass
2nd Qtr.2020	Seabrook	6	-3.3	1.5	Pass
3rd Qtr. 2020	Seabrook	12	1.1	3.3	Pass
4th Qtr.2020	Seabrook	6	-1.5	2.8	Pass

[1] Performance criterion is Bias % within +/- 20% for each test dosimeter.

7.0 Land Use Census

The Offsite Dose Calculation Manual (ODCM Control 9.2.1) requires that a Land Use Census be conducted annually to identify the location of the nearest residence, milk animal and nearest garden of greater than 50 square meters producing broad leaf vegetation in each of the 16 meteorological sectors within five miles of the plant. The 2020 census was completed in accordance with the requirements of the ODCM. In 2020, a global positioning system was used to determine locations in the off-site environs with respect to the center of the site (Unit 1 Containment).

The nearest resident, garden and milk animal locations identified in the 2020 Land Use Census and their distances are shown in Table 7.0-1. There were no changes in the identification of nearest residents and one change in nearest gardens from last year's census.

There were no new milk producing locations identified within the required 5 miles (8 km) of the plant that were different from those reported in the last year's land use census. As a result, there still remains an insufficient number of milk producing locations to qualify milk sampling as a REMP media per the requirements of ODCM Table A.9.1-1.

The results of this year's census also showed that the sampling locations used in the REMP continue to have the highest calculated dose commitments of available locations. In 2020, broad leaf vegetation continued as part of the sample collection and analysis program due to the absence of sufficient milk producing locations to provide REMP samples. Sampling locations for broad leaf vegetation are at the site boundary near points of highest predicted D/Q. This option continues, as opposed to public owned vegetable gardens located by the land use census, in order to ensure adequate availability of samples for REMP analysis from locations with the highest potential for detecting plant effluents.

Table 7.0-1

2020 Land Use Census Results
(Within 5 Miles)

Sector	Nearest Residence (km)	Nearest Garden (km)	Nearest Milk Animal (km)
N	2.78	3.99	
NNE	3.09	3.20	
NE	2.92	4.24	
ENE	2.31	2.53	
E	2.56	---	
ESE	2.43	---	
SE	2.36	4.69	
SSE	1.65	---	
S	1.21	1.25	
SSW	1.12	1.22	
SW	1.13	1.73	
WSW	1.87	2.33	
W	1.25	1.55	
WNW	1.11	3.08	
NW	1.22	3.14	6.93
NNW	1.04	2.07	5.32 [a]

[a] No milking goats at this time.

Attachment 1: Sample Analysis Data List for 2020

FLAGS

A blank Flag field indicates that the measured activity is considered positive as it is greater than the MDC and has no other qualifiers noted.

U: Target isotope was analyzed for but not detected above the MDC and LLD.
UI: Uncertain identification for gamma spectroscopy.
X: Lab-specific qualifier:
(1) False positive due to the presence of radon gas in the water.
M: Reported result is less than the LLD and greater than the MDC.
DL: Measured MDC is greater than the LLD.
DL*: Near miss of MDC being within round-off difference of being greater than the LLD.

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
AL	05	511607001	5/14/2020	Ac-228	1.98E+01	3.62E+01	9.49E+01	U
AL	05	511607001	5/14/2020	Ag-108m	-2.92E+00	4.13E+00	1.27E+01	U
AL	05	511607001	5/14/2020	Ag-110m	-2.82E+00	7.58E+00	2.36E+01	U
AL	05	511607001	5/14/2020	Ba-140	5.84E+01	3.47E+01	8.86E+01	U
AL	05	511607001	5/14/2020	Be-7	6.09E+01	4.85E+01	1.67E+02	U
AL	05	511607001	5/14/2020	Ce-141	1.89E+00	6.65E+00	2.22E+01	U
AL	05	511607001	5/14/2020	Ce-144	-1.38E+01	2.44E+01	7.89E+01	U
AL	05	511607001	5/14/2020	Co-57	8.15E-01	3.14E+00	1.06E+01	U
AL	05	511607001	5/14/2020	Co-58	-8.49E+00	6.22E+00	1.69E+01	U
AL	05	511607001	5/14/2020	Co-60	2.07E+00	5.66E+00	1.96E+01	U
AL	05	511607001	5/14/2020	Cr-51	3.27E+01	4.43E+01	1.43E+02	U
AL	05	511607001	5/14/2020	Cs-134	1.90E+00	6.36E+00	2.11E+01	U
AL	05	511607001	5/14/2020	Cs-137	9.05E+00	6.14E+00	2.09E+01	U
AL	05	511607001	5/14/2020	Fe-59	-3.44E+00	1.34E+01	4.46E+01	U
AL	05	511607001	5/14/2020	I-131	2.88E+00	9.82E+00	3.10E+01	U
AL	05	511607001	5/14/2020	K-40	7.35E+03	4.58E+02	1.95E+02	
AL	05	511607001	5/14/2020	La-140	-3.90E+00	8.67E+00	2.66E+01	U
AL	05	511607001	5/14/2020	Mn-54	-3.00E+00	6.24E+00	1.94E+01	U
AL	05	511607001	5/14/2020	Nb-95	-4.76E+00	5.39E+00	1.59E+01	U
AL	05	511607001	5/14/2020	Ru-103	3.01E+00	4.99E+00	1.72E+01	U
AL	05	511607001	5/14/2020	Ru-106	-4.79E+00	5.26E+01	1.55E+02	U
AL	05	511607001	5/14/2020	Sb-124	-1.35E+01	1.15E+01	2.85E+01	U
AL	05	511607001	5/14/2020	Sb-125	-1.75E-01	1.26E+01	4.28E+01	U
AL	05	511607001	5/14/2020	Se-75	-2.42E+00	7.26E+00	1.99E+01	U
AL	05	511607001	5/14/2020	Th-228	1.94E+01	1.53E+01	3.29E+01	U
AL	05	511607001	5/14/2020	Zn-65	1.90E+00	1.65E+01	4.99E+01	U
AL	05	511607001	5/14/2020	Zr-95	-7.83E+00	1.05E+01	3.17E+01	U
AL	05	529895001	12/9/2020	Ac-228	6.30E+00	2.35E+01	8.50E+01	U
AL	05	529895001	12/9/2020	Ag-108m	-5.58E+00	4.35E+00	1.26E+01	U
AL	05	529895001	12/9/2020	Ag-110m	-1.06E+01	7.82E+00	1.62E+01	U
AL	05	529895001	12/9/2020	Ba-140	9.30E+00	2.27E+01	7.62E+01	U
AL	05	529895001	12/9/2020	Be-7	0.00E+00	9.40E+01	1.33E+02	U
AL	05	529895001	12/9/2020	Ce-141	-1.47E+00	7.76E+00	2.22E+01	U
AL	05	529895001	12/9/2020	Ce-144	4.32E+01	2.95E+01	9.45E+01	U
AL	05	529895001	12/9/2020	Co-57	3.96E+00	4.21E+00	1.36E+01	U
AL	05	529895001	12/9/2020	Co-58	4.25E+00	4.28E+00	1.48E+01	U
AL	05	529895001	12/9/2020	Co-60	-7.15E+00	6.84E+00	1.97E+01	U
AL	05	529895001	12/9/2020	Cr-51	0.00E+00	0.00E+00	1.36E+02	U
AL	05	529895001	12/9/2020	Cs-134	-1.87E+00	6.34E+00	1.97E+01	U
AL	05	529895001	12/9/2020	Cs-137	-4.43E-01	5.49E+00	1.57E+01	U
AL	05	529895001	12/9/2020	Fe-59	-6.20E+00	1.23E+01	3.95E+01	U
AL	05	529895001	12/9/2020	I-131	1.58E+00	8.42E+00	2.85E+01	U
AL	05	529895001	12/9/2020	K-40	7.82E+03	5.46E+02	1.29E+02	
AL	05	529895001	12/9/2020	La-140	3.59E-01	5.38E+00	1.78E+01	U
AL	05	529895001	12/9/2020	Mn-54	-3.89E+00	4.88E+00	1.40E+01	U
AL	05	529895001	12/9/2020	Nb-95	1.55E+01	9.52E+00	1.68E+01	U
AL	05	529895001	12/9/2020	Ru-103	-6.07E+00	5.16E+00	1.50E+01	U
AL	05	529895001	12/9/2020	Ru-106	-4.62E-01	4.43E+01	1.44E+02	U
AL	05	529895001	12/9/2020	Sb-124	1.58E+01	1.26E+01	4.60E+01	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
AL	05	529895001	12/9/2020	Sb-125	5.27E+00	1.07E+01	3.65E+01	U
AL	05	529895001	12/9/2020	Se-75	1.29E+00	5.37E+00	1.85E+01	U
AL	05	529895001	12/9/2020	Th-228	-4.78E+00	1.01E+01	3.38E+01	U
AL	05	529895001	12/9/2020	Zn-65	2.59E+01	1.66E+01	4.65E+01	U
AL	05	529895001	12/9/2020	Zr-95	-4.97E-01	8.64E+00	2.75E+01	U
AL	55	511607002	5/14/2020	Ac-228	2.75E+01	2.94E+01	5.21E+01	U
AL	55	511607002	5/14/2020	Ag-108m	2.67E-01	2.66E+00	8.82E+00	U
AL	55	511607002	5/14/2020	Ag-110m	-3.68E-02	4.96E+00	1.60E+01	U
AL	55	511607002	5/14/2020	Ba-140	1.17E+01	1.53E+01	5.18E+01	U
AL	55	511607002	5/14/2020	Be-7	9.47E+01	3.60E+01	8.02E+01	
AL	55	511607002	5/14/2020	Ce-141	3.24E+00	9.01E+00	1.71E+01	U
AL	55	511607002	5/14/2020	Ce-144	3.15E+00	1.73E+01	5.88E+01	U
AL	55	511607002	5/14/2020	Co-57	-7.11E-01	2.29E+00	7.71E+00	U
AL	55	511607002	5/14/2020	Co-58	-4.77E+00	3.33E+00	9.01E+00	U
AL	55	511607002	5/14/2020	Co-60	-2.30E-01	3.64E+00	1.15E+01	U
AL	55	511607002	5/14/2020	Cr-51	-4.00E+01	2.87E+01	8.45E+01	U
AL	55	511607002	5/14/2020	Cs-134	-1.28E+00	3.59E+00	1.13E+01	U
AL	55	511607002	5/14/2020	Cs-137	1.57E+00	3.15E+00	1.05E+01	U
AL	55	511607002	5/14/2020	Fe-59	8.42E+00	8.11E+00	2.71E+01	U
AL	55	511607002	5/14/2020	I-131	3.64E+00	6.11E+00	2.06E+01	U
AL	55	511607002	5/14/2020	K-40	4.90E+03	3.36E+02	1.06E+02	
AL	55	511607002	5/14/2020	La-140	-2.42E+00	5.18E+00	1.66E+01	U
AL	55	511607002	5/14/2020	Mn-54	-4.58E+00	3.27E+00	8.91E+00	U
AL	55	511607002	5/14/2020	Nb-95	2.96E+00	3.35E+00	1.12E+01	U
AL	55	511607002	5/14/2020	Ru-103	2.26E+00	2.98E+00	1.01E+01	U
AL	55	511607002	5/14/2020	Ru-106	1.86E+01	2.48E+01	8.37E+01	U
AL	55	511607002	5/14/2020	Sb-124	-1.94E-01	6.25E+00	2.10E+01	U
AL	55	511607002	5/14/2020	Sb-125	-9.41E+00	8.87E+00	2.70E+01	U
AL	55	511607002	5/14/2020	Se-75	1.72E+00	3.85E+00	1.30E+01	U
AL	55	511607002	5/14/2020	Th-228	4.11E+00	9.65E+00	2.22E+01	U
AL	55	511607002	5/14/2020	Zn-65	4.36E+00	7.83E+00	2.59E+01	U
AL	55	511607002	5/14/2020	Zr-95	-8.92E-01	5.46E+00	1.75E+01	U
AL	55	529895002	12/9/2020	Ac-228	7.88E+01	3.32E+01	9.23E+01	U
AL	55	529895002	12/9/2020	Ag-108m	-2.75E+00	3.95E+00	1.25E+01	U
AL	55	529895002	12/9/2020	Ag-110m	6.01E+00	6.95E+00	2.46E+01	U
AL	55	529895002	12/9/2020	Ba-140	-7.46E+00	2.21E+01	7.09E+01	U
AL	55	529895002	12/9/2020	Be-7	2.76E+02	8.84E+01	1.27E+02	
AL	55	529895002	12/9/2020	Ce-141	4.94E+00	6.91E+00	2.28E+01	U
AL	55	529895002	12/9/2020	Ce-144	-1.77E+01	2.46E+01	7.64E+01	U
AL	55	529895002	12/9/2020	Co-57	4.57E+00	3.42E+00	1.13E+01	U
AL	55	529895002	12/9/2020	Co-58	-7.66E+00	5.45E+00	1.41E+01	U
AL	55	529895002	12/9/2020	Co-60	3.05E+00	5.28E+00	1.83E+01	U
AL	55	529895002	12/9/2020	Cr-51	-3.70E+01	3.89E+01	1.23E+02	U
AL	55	529895002	12/9/2020	Cs-134	-2.34E+00	5.18E+00	1.57E+01	U
AL	55	529895002	12/9/2020	Cs-137	-1.23E+01	6.73E+00	1.65E+01	U
AL	55	529895002	12/9/2020	Fe-59	5.88E+00	1.00E+01	3.48E+01	U
AL	55	529895002	12/9/2020	I-131	9.19E+00	7.98E+00	2.76E+01	U
AL	55	529895002	12/9/2020	K-40	8.00E+03	4.98E+02	1.64E+02	
AL	55	529895002	12/9/2020	La-140	-1.33E+01	7.92E+00	1.60E+01	U

Seabrook REMP Summary of 2020 Data

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
AL	55	529895002	12/9/2020	Mn-54	6.71E+00	5.49E+00	1.71E+01	U
AL	55	529895002	12/9/2020	Nb-95	-1.47E+00	5.53E+00	1.73E+01	U
AL	55	529895002	12/9/2020	Ru-103	-3.38E+00	4.86E+00	1.41E+01	U
AL	55	529895002	12/9/2020	Ru-106	1.16E+01	4.34E+01	1.44E+02	U
AL	55	529895002	12/9/2020	Sb-124	-1.27E+01	1.21E+01	3.11E+01	U
AL	55	529895002	12/9/2020	Sb-125	-8.48E+00	1.04E+01	3.23E+01	U
AL	55	529895002	12/9/2020	Se-75	7.85E+00	6.13E+00	1.97E+01	U
AL	55	529895002	12/9/2020	Th-228	5.08E+00	1.02E+01	3.37E+01	U
AL	55	529895002	12/9/2020	Zn-65	4.91E+00	1.44E+01	4.88E+01	U
AL	55	529895002	12/9/2020	Zr-95	-1.36E+00	8.67E+00	2.42E+01	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/m^3)	STD.DEV. (pCi/m^3)	MDC (pCi/m^3)	FLAGS
AP	01	501552001	1/15/2020	BETA	2.30E-02	1.19E-03	1.15E-03	
AP	01	502825001	1/29/2020	BETA	2.14E-02	1.10E-03	1.04E-03	
AP	01	504483001	2/12/2020	BETA	2.09E-02	1.09E-03	1.01E-03	
AP	01	505599001	2/26/2020	BETA	3.72E-02	1.55E-03	1.16E-03	
AP	01	506904001	3/11/2020	BETA	2.24E-02	1.06E-03	8.81E-04	
AP	01	508060001	3/25/2020	BETA	2.19E-02	1.04E-03	9.89E-04	
AP	01	510636001	3/25/2020	Ac-228	-5.12E-04	5.18E-04	1.66E-03	U
AP	01	510636001	3/25/2020	Ag-108m	-1.42E-05	8.55E-05	2.72E-04	U
AP	01	510636001	3/25/2020	Ag-110m	2.04E-04	1.83E-04	6.44E-04	U
AP	01	510636001	3/25/2020	Ba-140	-8.01E-03	2.88E-02	8.84E-02	U
AP	01	510636001	3/25/2020	Be-7	1.26E-01	9.56E-03	6.79E-03	
AP	01	510636001	3/25/2020	Ce-141	4.62E-05	1.29E-03	2.10E-03	U
AP	01	510636001	3/25/2020	Ce-144	2.69E-04	4.82E-04	1.68E-03	U
AP	01	510636001	3/25/2020	Co-57	3.23E-05	6.22E-05	2.17E-04	U
AP	01	510636001	3/25/2020	Co-58	-1.97E-04	1.67E-04	4.42E-04	U
AP	01	510636001	3/25/2020	Co-60	2.04E-05	1.12E-04	3.86E-04	U
AP	01	510636001	3/25/2020	Cr-51	2.02E-03	5.84E-03	1.95E-02	U
AP	01	510636001	3/25/2020	Cs-134	4.50E-05	1.24E-04	4.11E-04	U
AP	01	510636001	3/25/2020	Cs-137	7.78E-05	9.11E-05	2.96E-04	U
AP	01	510636001	3/25/2020	Fe-59	-4.27E-05	5.52E-04	1.77E-03	U
AP	01	510636001	3/25/2020	I-131	-3.85E-03	1.28E-01	0.00E+00	U
AP	01	510636001	3/25/2020	K-40	1.36E-03	1.51E-03	5.51E-03	U
AP	01	510636001	3/25/2020	La-140	6.99E-03	1.31E-02	4.63E-02	U
AP	01	510636001	3/25/2020	Mn-54	-2.89E-06	1.26E-04	4.17E-04	U
AP	01	510636001	3/25/2020	Nb-95	3.20E-04	3.38E-04	1.05E-03	U
AP	01	510636001	3/25/2020	Ru-103	-8.35E-06	3.12E-04	9.93E-04	U
AP	01	510636001	3/25/2020	Ru-106	1.83E-04	9.53E-04	3.26E-03	U
AP	01	510636001	3/25/2020	Sb-124	-1.04E-04	6.88E-04	2.23E-03	U
AP	01	510636001	3/25/2020	Sb-125	-6.65E-05	2.54E-04	8.01E-04	U
AP	01	510636001	3/25/2020	Se-75	3.15E-04	1.74E-04	5.78E-04	U
AP	01	510636001	3/25/2020	Th-228	2.33E-04	3.38E-04	4.03E-04	U
AP	01	510636001	3/25/2020	Zn-65	-1.57E-04	3.03E-04	9.13E-04	U
AP	01	510636001	3/25/2020	Zr-95	-3.07E-04	3.77E-04	1.12E-03	U
AP	01	509289001	4/9/2020	BETA	8.50E-03	7.32E-04	9.75E-04	M
AP	01	510087001	4/22/2020	BETA	2.57E-02	1.29E-03	1.13E-03	
AP	01	510960001	5/6/2020	BETA	1.84E-02	9.94E-04	9.66E-04	
AP	01	511920001	5/20/2020	BETA	1.62E-02	9.57E-04	9.58E-04	
AP	01	512893001	6/3/2020	BETA	1.50E-02	9.34E-04	1.03E-03	
AP	01	514085001	6/17/2020	BETA	1.96E-02	1.09E-03	1.05E-03	
AP	01	515124001	7/1/2020	BETA	2.60E-02	1.38E-03	1.46E-03	
AP	01	517014001	7/1/2020	Ac-228	2.75E-04	8.07E-04	1.53E-03	U
AP	01	517014001	7/1/2020	Ag-108m	-1.75E-04	8.33E-05	1.81E-04	U
AP	01	517014001	7/1/2020	Ag-110m	-2.84E-05	1.59E-04	5.02E-04	U
AP	01	517014001	7/1/2020	Ba-140	-2.61E-03	2.00E-02	6.63E-02	U
AP	01	517014001	7/1/2020	Be-7	1.36E-01	1.01E-02	7.02E-03	
AP	01	517014001	7/1/2020	Ce-141	-3.14E-04	5.17E-04	1.65E-03	U
AP	01	517014001	7/1/2020	Ce-144	-2.05E-04	4.55E-04	1.25E-03	U

Seabrook REMP Summary of 2020 Data

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/m^3)	STD.DEV. (pCi/m^3)	MDC (pCi/m^3)	FLAGS
AP	01	517014001	7/1/2020	Co-57	-5.15E-05	6.17E-05	1.80E-04	U
AP	01	517014001	7/1/2020	Co-58	-1.09E-04	1.78E-04	5.30E-04	U
AP	01	517014001	7/1/2020	Co-60	1.13E-04	9.55E-05	3.55E-04	U
AP	01	517014001	7/1/2020	Cr-51	-2.62E-03	4.60E-03	1.43E-02	U
AP	01	517014001	7/1/2020	Cs-134	2.34E-04	1.18E-04	4.10E-04	U
AP	01	517014001	7/1/2020	Cs-137	-3.16E-05	9.49E-05	3.03E-04	U
AP	01	517014001	7/1/2020	Fe-59	7.36E-05	5.40E-04	1.83E-03	U
AP	01	517014001	7/1/2020	I-131	-6.43E-02	8.63E-02	0.00E+00	U
AP	01	517014001	7/1/2020	K-40	1.52E-03	1.78E-03	6.24E-03	U
AP	01	517014001	7/1/2020	La-140	-1.20E-04	1.27E-02	4.09E-02	U
AP	01	517014001	7/1/2020	Mn-54	-1.49E-05	1.17E-04	3.72E-04	U
AP	01	517014001	7/1/2020	Nb-95	4.74E-04	2.70E-04	6.71E-04	U
AP	01	517014001	7/1/2020	Ru-103	-2.14E-05	2.96E-04	8.75E-04	U
AP	01	517014001	7/1/2020	Ru-106	3.38E-04	9.71E-04	3.29E-03	U
AP	01	517014001	7/1/2020	Sb-124	9.22E-04	6.40E-04	2.43E-03	U
AP	01	517014001	7/1/2020	Sb-125	1.96E-04	2.50E-04	7.53E-04	U
AP	01	517014001	7/1/2020	Se-75	-1.20E-04	1.31E-04	3.99E-04	U
AP	01	517014001	7/1/2020	Th-228	3.13E-05	1.47E-04	4.26E-04	U
AP	01	517014001	7/1/2020	Zn-65	-4.57E-04	2.85E-04	7.01E-04	U
AP	01	517014001	7/1/2020	Zr-95	4.71E-05	3.04E-04	8.93E-04	U
AP	01	516358001	7/17/2020	BETA	1.08E-02	8.92E-04	1.17E-03	
AP	01	517178001	7/29/2020	BETA	4.03E-02	1.91E-03	1.66E-03	
AP	01	518829001	8/12/2020	BETA	4.59E-02	4.49E-03	6.93E-03	
AP	01	519921001	8/26/2020	BETA	2.93E-02	1.31E-03	1.04E-03	
AP	01	521451001	9/9/2020	BETA	2.31E-02	1.11E-03	9.59E-04	
AP	01	522475001	9/23/2020	BETA	2.11E-02	9.91E-04	8.24E-04	
AP	01	526420001	9/23/2020	Ac-228	6.87E-04	5.84E-04	1.98E-03	U
AP	01	526420001	9/23/2020	Ag-108m	9.23E-05	8.41E-05	2.68E-04	U
AP	01	526420001	9/23/2020	Ag-110m	8.14E-05	1.70E-04	6.00E-04	U
AP	01	526420001	9/23/2020	Ba-140	5.37E-02	5.04E-02	1.72E-01	U
AP	01	526420001	9/23/2020	Be-7	1.40E-01	1.15E-02	8.40E-03	
AP	01	526420001	9/23/2020	Ce-141	1.75E-03	1.38E-03	2.21E-03	U
AP	01	526420001	9/23/2020	Ce-144	-4.37E-05	5.50E-04	1.71E-03	U
AP	01	526420001	9/23/2020	Co-57	-3.46E-06	7.04E-05	2.20E-04	U
AP	01	526420001	9/23/2020	Co-58	-5.08E-05	2.75E-04	8.53E-04	U
AP	01	526420001	9/23/2020	Co-60	-6.49E-05	1.40E-04	4.30E-04	U
AP	01	526420001	9/23/2020	Cr-51	-5.99E-04	6.89E-03	2.29E-02	U
AP	01	526420001	9/23/2020	Cs-134	-1.39E-04	1.50E-04	4.17E-04	U
AP	01	526420001	9/23/2020	Cs-137	-5.52E-05	1.24E-04	3.30E-04	U
AP	01	526420001	9/23/2020	Fe-59	8.77E-04	6.66E-04	2.52E-03	U
AP	01	526420001	9/23/2020	I-131	-6.22E-02	2.82E-01	0.00E+00	U
AP	01	526420001	9/23/2020	K-40	4.31E-03	2.87E-03	4.54E-03	U
AP	01	526420001	9/23/2020	La-140	-1.31E-02	1.88E-02	5.30E-02	U
AP	01	526420001	9/23/2020	Mn-54	1.19E-04	1.29E-04	4.26E-04	U
AP	01	526420001	9/23/2020	Nb-95	2.15E-04	2.86E-04	9.64E-04	U
AP	01	526420001	9/23/2020	Ru-103	-4.18E-04	5.00E-04	1.29E-03	U
AP	01	526420001	9/23/2020	Ru-106	-1.96E-04	1.18E-03	3.75E-03	U
AP	01	526420001	9/23/2020	Sb-124	-7.80E-04	6.99E-04	1.63E-03	U
AP	01	526420001	9/23/2020	Sb-125	5.00E-04	2.94E-04	8.98E-04	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/m^3)	STD.DEV. (pCi/m^3)	MDC (pCi/m^3)	FLAGS
AP	01	526420001	9/23/2020	Se-75	1.48E-04	1.87E-04	6.44E-04	U
AP	01	526420001	9/23/2020	Th-228	4.31E-04	2.76E-04	6.79E-04	U
AP	01	526420001	9/23/2020	Zn-65	7.82E-05	3.18E-04	1.09E-03	U
AP	01	526420001	9/23/2020	Zr-95	-3.28E-04	4.91E-04	1.43E-03	U
AP	01	523935001	10/7/2020	BETA	3.66E-02	1.30E-03	8.19E-04	
AP	01	525295001	10/21/2020	BETA	2.41E-02	1.08E-03	8.87E-04	
AP	01	527529001	11/6/2020	BETA	2.58E-02	1.03E-03	7.52E-04	
AP	01	528278001	11/18/2020	BETA	5.15E-02	1.68E-03	1.05E-03	
AP	01	529289001	12/2/2020	BETA	2.76E-02	1.15E-03	9.09E-04	
AP	01	530489001	12/16/2020	BETA	3.01E-02	1.20E-03	8.56E-04	
AP	01	531226001	12/30/2020	BETA	2.82E-02	1.15E-03	8.36E-04	
AP	01	533257001	12/30/2020	Ac-228	3.46E-04	4.34E-04	1.17E-03	U
AP	01	533257001	12/30/2020	Ag-108m	-1.24E-05	4.12E-05	1.35E-04	U
AP	01	533257001	12/30/2020	Ag-110m	-1.31E-04	1.05E-04	2.69E-04	U
AP	01	533257001	12/30/2020	Ba-140	-1.20E-02	1.19E-02	3.48E-02	U
AP	01	533257001	12/30/2020	Be-7	1.07E-01	7.81E-03	3.83E-03	
AP	01	533257001	12/30/2020	Ce-141	4.88E-04	3.02E-04	9.41E-04	U
AP	01	533257001	12/30/2020	Ce-144	1.49E-04	3.05E-04	9.35E-04	U
AP	01	533257001	12/30/2020	Co-57	-3.48E-05	4.01E-05	1.10E-04	U
AP	01	533257001	12/30/2020	Co-58	-1.11E-04	1.14E-04	3.15E-04	U
AP	01	533257001	12/30/2020	Co-60	4.59E-05	6.21E-05	2.28E-04	U
AP	01	533257001	12/30/2020	Cr-51	2.29E-04	2.89E-03	9.92E-03	U
AP	01	533257001	12/30/2020	Cs-134	-3.24E-05	7.04E-05	2.15E-04	U
AP	01	533257001	12/30/2020	Cs-137	-3.38E-05	6.08E-05	1.87E-04	U
AP	01	533257001	12/30/2020	Fe-59	-4.67E-05	3.95E-04	1.23E-03	U
AP	01	533257001	12/30/2020	I-131	-1.35E-02	3.25E-02	1.07E-01	U
AP	01	533257001	12/30/2020	K-40	0.00E+00	1.53E-03	2.20E-03	U
AP	01	533257001	12/30/2020	La-140	2.53E-03	5.03E-03	1.78E-02	U
AP	01	533257001	12/30/2020	Mn-54	9.96E-05	6.69E-05	1.82E-04	U
AP	01	533257001	12/30/2020	Nb-95	-1.56E-04	1.50E-04	4.24E-04	U
AP	01	533257001	12/30/2020	Ru-103	2.42E-05	1.75E-04	5.92E-04	U
AP	01	533257001	12/30/2020	Ru-106	-1.02E-03	6.28E-04	1.59E-03	U
AP	01	533257001	12/30/2020	Sb-124	3.13E-04	3.18E-04	1.21E-03	U
AP	01	533257001	12/30/2020	Sb-125	1.70E-05	1.37E-04	4.67E-04	U
AP	01	533257001	12/30/2020	Se-75	-3.66E-05	1.09E-04	3.31E-04	U
AP	01	533257001	12/30/2020	Th-228	0.00E+00	2.37E-04	4.30E-04	U
AP	01	533257001	12/30/2020	Zn-65	2.95E-04	1.57E-04	5.90E-04	U
AP	01	533257001	12/30/2020	Zr-95	2.96E-04	2.11E-04	7.17E-04	U
AP	02	501552002	1/15/2020	BETA	1.98E-02	1.03E-03	9.66E-04	
AP	02	502825002	1/29/2020	BETA	1.99E-02	1.04E-03	9.97E-04	
AP	02	504483002	2/12/2020	BETA	2.64E-02	1.35E-03	1.25E-03	
AP	02	505599002	2/26/2020	BETA	3.43E-02	1.43E-03	1.08E-03	
AP	02	506904002	3/11/2020	BETA	2.11E-02	1.11E-03	1.02E-03	
AP	02	508060002	3/25/2020	BETA	2.10E-02	1.10E-03	1.06E-03	
AP	02	510636002	3/25/2020	Ac-228	1.38E-03	7.87E-04	2.05E-03	U
AP	02	510636002	3/25/2020	Ag-108m	4.90E-06	7.95E-05	2.67E-04	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/m^3)	STD.DEV. (pCi/m^3)	MDC (pCi/m^3)	FLAGS
AP	02	510636002	3/25/2020	Ag-110m	2.20E-04	1.57E-04	5.89E-04	U
AP	02	510636002	3/25/2020	Ba-140	-4.40E-04	3.36E-02	1.10E-01	U
AP	02	510636002	3/25/2020	Be-7	1.31E-01	1.02E-02	7.72E-03	
AP	02	510636002	3/25/2020	Ce-141	-9.29E-04	7.24E-04	1.88E-03	U
AP	02	510636002	3/25/2020	Ce-144	8.68E-04	5.88E-04	1.85E-03	U
AP	02	510636002	3/25/2020	Co-57	-4.57E-05	6.38E-05	1.98E-04	U
AP	02	510636002	3/25/2020	Co-58	1.31E-04	2.61E-04	8.69E-04	U
AP	02	510636002	3/25/2020	Co-60	3.59E-05	1.19E-04	4.07E-04	U
AP	02	510636002	3/25/2020	Cr-51	-2.99E-04	6.28E-03	2.14E-02	U
AP	02	510636002	3/25/2020	Cs-134	1.29E-04	1.47E-04	5.00E-04	U
AP	02	510636002	3/25/2020	Cs-137	-1.09E-04	1.30E-04	3.78E-04	U
AP	02	510636002	3/25/2020	Fe-59	2.93E-04	8.49E-04	2.92E-03	U
AP	02	510636002	3/25/2020	I-131	0.00E+00	1.56E-01	0.00E+00	UI
AP	02	510636002	3/25/2020	K-40	2.10E-03	2.50E-03	4.68E-03	U
AP	02	510636002	3/25/2020	La-140	7.46E-03	1.60E-02	5.47E-02	U
AP	02	510636002	3/25/2020	Mn-54	-1.10E-05	1.28E-04	4.31E-04	U
AP	02	510636002	3/25/2020	Nb-95	3.62E-04	2.29E-04	7.91E-04	U
AP	02	510636002	3/25/2020	Ru-103	3.00E-05	3.84E-04	1.28E-03	U
AP	02	510636002	3/25/2020	Ru-106	-1.86E-03	1.13E-03	2.47E-03	U
AP	02	510636002	3/25/2020	Sb-124	9.08E-05	5.01E-04	1.76E-03	U
AP	02	510636002	3/25/2020	Sb-125	6.74E-05	2.57E-04	8.75E-04	U
AP	02	510636002	3/25/2020	Se-75	1.62E-04	1.92E-04	6.23E-04	U
AP	02	510636002	3/25/2020	Th-228	5.68E-04	2.90E-04	6.41E-04	U
AP	02	510636002	3/25/2020	Zn-65	-2.21E-04	3.06E-04	9.00E-04	U
AP	02	510636002	3/25/2020	Zr-95	-4.31E-04	5.16E-04	1.22E-03	U
AP	02	509289002	4/9/2020	BETA	1.30E-02	8.31E-04	8.92E-04	
AP	02	510087002	4/22/2020	BETA	2.04E-02	1.03E-03	1.01E-03	
AP	02	510960002	5/6/2020	BETA	2.02E-02	1.07E-03	9.37E-04	
AP	02	511920002	5/20/2020	BETA	1.82E-02	9.56E-04	8.89E-04	
AP	02	512893002	6/3/2020	BETA	1.50E-02	8.80E-04	9.23E-04	
AP	02	514085002	6/17/2020	BETA	1.82E-02	1.00E-03	1.08E-03	
AP	02	515124002	7/1/2020	BETA	2.21E-02	1.12E-03	1.04E-03	
AP	02	517014002	7/1/2020	Ac-228	5.35E-04	4.67E-04	1.46E-03	U
AP	02	517014002	7/1/2020	Ag-108m	5.72E-05	7.21E-05	2.19E-04	U
AP	02	517014002	7/1/2020	Ag-110m	1.41E-04	1.30E-04	4.67E-04	U
AP	02	517014002	7/1/2020	Ba-140	2.16E-03	2.31E-02	6.88E-02	U
AP	02	517014002	7/1/2020	Be-7	1.18E-01	9.20E-03	5.59E-03	
AP	02	517014002	7/1/2020	Ce-141	3.85E-04	4.87E-04	1.64E-03	U
AP	02	517014002	7/1/2020	Ce-144	-2.61E-05	4.59E-04	1.52E-03	U
AP	02	517014002	7/1/2020	Co-57	6.91E-05	5.98E-05	2.02E-04	U
AP	02	517014002	7/1/2020	Co-58	2.18E-04	1.86E-04	6.60E-04	U
AP	02	517014002	7/1/2020	Co-60	-1.86E-06	1.13E-04	3.69E-04	U
AP	02	517014002	7/1/2020	Cr-51	3.31E-03	4.79E-03	1.59E-02	U
AP	02	517014002	7/1/2020	Cs-134	7.35E-05	8.51E-05	3.05E-04	U
AP	02	517014002	7/1/2020	Cs-137	8.06E-05	8.36E-05	2.97E-04	U
AP	02	517014002	7/1/2020	Fe-59	-7.19E-04	5.35E-04	1.36E-03	U
AP	02	517014002	7/1/2020	I-131	0.00E+00	8.30E-02	0.00E+00	UI
AP	02	517014002	7/1/2020	K-40	-3.01E-03	2.17E-03	4.04E-03	U
AP	02	517014002	7/1/2020	La-140	-1.66E-02	1.07E-02	2.39E-02	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/m^3)	STD.DEV. (pCi/m^3)	MDC (pCi/m^3)	FLAGS
AP	02	517014002	7/1/2020	Mn-54	9.60E-05	9.56E-05	3.41E-04	U
AP	02	517014002	7/1/2020	Nb-95	3.94E-05	2.33E-04	7.93E-04	U
AP	02	517014002	7/1/2020	Ru-103	-4.22E-04	2.92E-04	7.43E-04	U
AP	02	517014002	7/1/2020	Ru-106	2.67E-04	7.44E-04	2.33E-03	U
AP	02	517014002	7/1/2020	Sb-124	-1.48E-04	5.64E-04	1.75E-03	U
AP	02	517014002	7/1/2020	Sb-125	6.23E-04	2.88E-04	7.34E-04	U
AP	02	517014002	7/1/2020	Se-75	1.70E-06	1.39E-04	4.52E-04	U
AP	02	517014002	7/1/2020	Th-228	3.06E-04	2.13E-04	5.10E-04	U
AP	02	517014002	7/1/2020	Zn-65	3.41E-04	2.35E-04	8.05E-04	U
AP	02	517014002	7/1/2020	Zr-95	-1.57E-04	2.73E-04	8.54E-04	U
AP	02	516358002	7/17/2020	BETA	1.47E-02	8.66E-04	8.66E-04	
AP	02	517178002	7/29/2020	BETA	3.01E-02	1.44E-03	1.21E-03	
AP	02	518829002	8/12/2020	BETA	2.99E-02	1.25E-03	1.10E-03	
AP	02	519921002	8/26/2020	BETA	2.56E-02	1.16E-03	1.06E-03	
AP	02	521451002	9/9/2020	BETA	1.94E-02	1.02E-03	9.71E-04	
AP	02	522475002	9/23/2020	BETA	1.81E-02	1.01E-03	1.09E-03	
AP	02	526420002	9/23/2020	Ac-228	1.82E-03	1.03E-03	2.04E-03	U
AP	02	526420002	9/23/2020	Ag-108m	2.08E-04	1.01E-04	3.23E-04	U
AP	02	526420002	9/23/2020	Ag-110m	-9.25E-05	1.71E-04	5.37E-04	U
AP	02	526420002	9/23/2020	Ba-140	1.11E-01	5.78E-02	1.85E-01	U
AP	02	526420002	9/23/2020	Be-7	1.20E-01	9.39E-03	8.97E-03	
AP	02	526420002	9/23/2020	Ce-141	0.00E+00	1.73E-03	3.01E-03	U
AP	02	526420002	9/23/2020	Ce-144	-5.41E-04	6.68E-04	2.16E-03	U
AP	02	526420002	9/23/2020	Co-57	-2.34E-05	8.07E-05	2.72E-04	U
AP	02	526420002	9/23/2020	Co-58	1.28E-04	3.00E-04	8.54E-04	U
AP	02	526420002	9/23/2020	Co-60	1.39E-04	1.16E-04	4.10E-04	U
AP	02	526420002	9/23/2020	Cr-51	1.16E-02	8.08E-03	2.57E-02	U
AP	02	526420002	9/23/2020	Cs-134	9.36E-07	1.47E-04	4.46E-04	U
AP	02	526420002	9/23/2020	Cs-137	-6.52E-06	1.03E-04	3.29E-04	U
AP	02	526420002	9/23/2020	Fe-59	1.37E-03	9.96E-04	3.34E-03	U
AP	02	526420002	9/23/2020	I-131	0.00E+00	2.28E-01	0.00E+00	UI
AP	02	526420002	9/23/2020	K-40	3.61E-03	2.19E-03	3.86E-03	U
AP	02	526420002	9/23/2020	La-140	-1.36E-02	1.89E-02	5.68E-02	U
AP	02	526420002	9/23/2020	Mn-54	-2.10E-05	1.37E-04	4.51E-04	U
AP	02	526420002	9/23/2020	Nb-95	2.05E-04	2.29E-04	7.92E-04	U
AP	02	526420002	9/23/2020	Ru-103	2.07E-04	4.54E-04	1.52E-03	U
AP	02	526420002	9/23/2020	Ru-106	1.66E-04	1.07E-03	3.48E-03	U
AP	02	526420002	9/23/2020	Sb-124	-4.76E-04	7.35E-04	2.20E-03	U
AP	02	526420002	9/23/2020	Sb-125	-5.29E-06	2.60E-04	8.66E-04	U
AP	02	526420002	9/23/2020	Se-75	5.17E-04	2.40E-04	7.33E-04	U
AP	02	526420002	9/23/2020	Th-228	6.17E-04	4.15E-04	7.41E-04	U
AP	02	526420002	9/23/2020	Zn-65	-3.35E-05	3.71E-04	1.07E-03	U
AP	02	526420002	9/23/2020	Zr-95	-5.70E-04	4.25E-04	1.22E-03	U
AP	02	523935002	10/7/2020	BETA	2.89E-02	1.29E-03	1.09E-03	
AP	02	525295002	10/21/2020	BETA	2.23E-02	1.11E-03	9.41E-04	
AP	02	527529002	11/6/2020	BETA	2.38E-02	1.12E-03	9.29E-04	
AP	02	528278002	11/18/2020	BETA	4.32E-02	1.75E-03	1.29E-03	

Seabrook REMP Summary of 2020 Data

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/m^3)	STD.DEV. (pCi/m^3)	MDC (pCi/m^3)	FLAGS
AP	02	529289002	12/2/2020	BETA	2.33E-02	1.26E-03	1.18E-03	
AP	02	530489002	12/16/2020	BETA	2.21E-02	1.23E-03	1.17E-03	
AP	02	531226002	12/30/2020	BETA	2.03E-02	1.07E-03	9.87E-04	
AP	02	533257002	12/30/2020	Ac-228	5.43E-04	5.19E-04	1.91E-03	U
AP	02	533257002	12/30/2020	Ag-108m	5.52E-05	7.50E-05	2.58E-04	U
AP	02	533257002	12/30/2020	Ag-110m	1.04E-04	1.70E-04	5.71E-04	U
AP	02	533257002	12/30/2020	Ba-140	-2.53E-03	2.11E-02	6.85E-02	U
AP	02	533257002	12/30/2020	Be-7	1.05E-01	8.14E-03	6.21E-03	
AP	02	533257002	12/30/2020	Ce-141	-4.40E-04	5.65E-04	1.68E-03	U
AP	02	533257002	12/30/2020	Ce-144	-7.04E-04	5.43E-04	1.51E-03	U
AP	02	533257002	12/30/2020	Co-57	-8.13E-06	6.30E-05	1.99E-04	U
AP	02	533257002	12/30/2020	Co-58	5.89E-05	1.76E-04	5.82E-04	U
AP	02	533257002	12/30/2020	Co-60	-8.95E-05	5.58E-05	0.00E+00	U
AP	02	533257002	12/30/2020	Cr-51	-8.31E-03	4.50E-03	1.18E-02	U
AP	02	533257002	12/30/2020	Cs-134	-2.52E-04	1.28E-04	2.23E-04	U
AP	02	533257002	12/30/2020	Cs-137	4.93E-05	1.01E-04	3.38E-04	U
AP	02	533257002	12/30/2020	Fe-59	-5.13E-04	6.52E-04	1.88E-03	U
AP	02	533257002	12/30/2020	I-131	-1.03E-01	6.38E-02	1.72E-01	U
AP	02	533257002	12/30/2020	K-40	2.64E-04	1.66E-03	6.30E-03	U
AP	02	533257002	12/30/2020	La-140	-8.33E-03	1.07E-02	3.08E-02	U
AP	02	533257002	12/30/2020	Mn-54	-8.41E-05	1.12E-04	3.19E-04	U
AP	02	533257002	12/30/2020	Nb-95	-1.01E-04	1.91E-04	5.68E-04	U
AP	02	533257002	12/30/2020	Ru-103	-1.03E-04	3.31E-04	1.06E-03	U
AP	02	533257002	12/30/2020	Ru-106	6.79E-04	9.53E-04	3.24E-03	U
AP	02	533257002	12/30/2020	Sb-124	5.95E-05	6.13E-04	2.02E-03	U
AP	02	533257002	12/30/2020	Sb-125	-9.62E-06	2.19E-04	7.26E-04	U
AP	02	533257002	12/30/2020	Se-75	6.14E-05	1.43E-04	4.96E-04	U
AP	02	533257002	12/30/2020	Th-228	5.31E-04	3.02E-04	7.28E-04	U
AP	02	533257002	12/30/2020	Zn-65	-3.43E-05	2.42E-04	7.98E-04	U
AP	02	533257002	12/30/2020	Zr-95	4.17E-04	3.66E-04	1.27E-03	U
AP	03	501552003	1/15/2020	BETA	1.92E-02	1.04E-03	9.78E-04	
AP	03	502825003	1/29/2020	BETA	2.50E-02	1.21E-03	1.10E-03	
AP	03	504483003	2/12/2020	BETA	2.44E-02	1.24E-03	1.14E-03	
AP	03	505599003	2/26/2020	BETA	3.32E-02	1.40E-03	1.08E-03	
AP	03	506904003	3/11/2020	BETA	2.73E-02	1.21E-03	9.91E-04	
AP	03	508060003	3/25/2020	BETA	2.38E-02	1.14E-03	9.83E-04	
AP	03	510636003	3/25/2020	Ac-228	-4.43E-04	5.85E-04	1.81E-03	U
AP	03	510636003	3/25/2020	Ag-108m	7.59E-05	7.67E-05	2.69E-04	U
AP	03	510636003	3/25/2020	Ag-110m	4.33E-05	2.27E-04	6.61E-04	U
AP	03	510636003	3/25/2020	Ba-140	1.60E-02	2.44E-02	8.58E-02	U
AP	03	510636003	3/25/2020	Be-7	1.29E-01	1.01E-02	8.09E-03	
AP	03	510636003	3/25/2020	Ce-141	1.25E-03	1.06E-03	1.96E-03	U
AP	03	510636003	3/25/2020	Ce-144	1.69E-04	6.22E-04	1.86E-03	U
AP	03	510636003	3/25/2020	Co-57	-5.14E-05	6.51E-05	1.95E-04	U
AP	03	510636003	3/25/2020	Co-58	7.59E-05	2.39E-04	7.94E-04	U
AP	03	510636003	3/25/2020	Co-60	-2.68E-05	1.03E-04	3.29E-04	U
AP	03	510636003	3/25/2020	Cr-51	-6.08E-03	6.04E-03	1.88E-02	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/m^3)	STD.DEV. (pCi/m^3)	MDC (pCi/m^3)	FLAGS
AP	03	510636003	3/25/2020	Cs-134	1.82E-05	1.19E-04	3.89E-04	U
AP	03	510636003	3/25/2020	Cs-137	-3.06E-05	9.79E-05	3.07E-04	U
AP	03	510636003	3/25/2020	Fe-59	-5.47E-04	5.88E-04	1.64E-03	U
AP	03	510636003	3/25/2020	I-131	-1.07E-01	1.38E-01	0.00E+00	U
AP	03	510636003	3/25/2020	K-40	0.00E+00	2.07E-03	4.06E-03	U
AP	03	510636003	3/25/2020	La-140	1.53E-04	1.25E-02	4.11E-02	U
AP	03	510636003	3/25/2020	Mn-54	8.62E-06	1.26E-04	4.06E-04	U
AP	03	510636003	3/25/2020	Nb-95	6.77E-05	2.30E-04	7.67E-04	U
AP	03	510636003	3/25/2020	Ru-103	2.91E-05	3.22E-04	1.08E-03	U
AP	03	510636003	3/25/2020	Ru-106	4.63E-04	9.53E-04	3.06E-03	U
AP	03	510636003	3/25/2020	Sb-124	1.16E-04	5.04E-04	1.74E-03	U
AP	03	510636003	3/25/2020	Sb-125	3.31E-04	2.93E-04	1.02E-03	U
AP	03	510636003	3/25/2020	Se-75	2.05E-04	1.59E-04	5.60E-04	U
AP	03	510636003	3/25/2020	Th-228	8.35E-06	2.88E-04	9.46E-04	U
AP	03	510636003	3/25/2020	Zn-65	-1.60E-04	2.96E-04	8.43E-04	U
AP	03	510636003	3/25/2020	Zr-95	-7.82E-05	4.58E-04	1.45E-03	U
AP	03	509289003	4/9/2020	BETA	1.37E-02	8.94E-04	1.09E-03	
AP	03	510087003	4/22/2020	BETA	2.74E-02	1.27E-03	1.02E-03	
AP	03	510960003	5/6/2020	BETA	1.75E-02	9.68E-04	1.08E-03	
AP	03	511920003	5/20/2020	BETA	1.98E-02	9.84E-04	8.64E-04	
AP	03	512893003	6/3/2020	BETA	1.66E-02	9.49E-04	1.09E-03	
AP	03	514085003	6/17/2020	BETA	2.07E-02	1.07E-03	9.69E-04	
AP	03	515124003	7/1/2020	BETA	2.36E-02	1.12E-03	9.41E-04	
AP	03	517014003	7/1/2020	Ac-228	3.70E-04	4.90E-04	1.33E-03	U
AP	03	517014003	7/1/2020	Ag-108m	-1.29E-05	5.22E-05	1.68E-04	U
AP	03	517014003	7/1/2020	Ag-110m	-1.49E-05	1.13E-04	3.78E-04	U
AP	03	517014003	7/1/2020	Ba-140	1.58E-02	1.79E-02	6.13E-02	U
AP	03	517014003	7/1/2020	Be-7	1.39E-01	9.36E-03	4.74E-03	
AP	03	517014003	7/1/2020	Ce-141	3.87E-04	8.29E-04	1.28E-03	U
AP	03	517014003	7/1/2020	Ce-144	-1.10E-04	3.41E-04	1.04E-03	U
AP	03	517014003	7/1/2020	Co-57	7.55E-05	4.78E-05	1.53E-04	U
AP	03	517014003	7/1/2020	Co-58	2.01E-04	1.77E-04	6.00E-04	U
AP	03	517014003	7/1/2020	Co-60	-2.24E-05	8.05E-05	2.54E-04	U
AP	03	517014003	7/1/2020	Cr-51	1.87E-03	4.14E-03	1.35E-02	U
AP	03	517014003	7/1/2020	Cs-134	-2.71E-05	7.74E-05	2.34E-04	U
AP	03	517014003	7/1/2020	Cs-137	-5.11E-05	6.71E-05	1.94E-04	U
AP	03	517014003	7/1/2020	Fe-59	3.75E-04	5.36E-04	1.89E-03	U
AP	03	517014003	7/1/2020	I-131	0.00E+00	6.66E-02	0.00E+00	UI
AP	03	517014003	7/1/2020	K-40	0.00E+00	1.63E-03	1.47E-03	U
AP	03	517014003	7/1/2020	La-140	8.65E-03	8.27E-03	3.00E-02	U
AP	03	517014003	7/1/2020	Mn-54	-2.08E-04	9.61E-05	2.12E-04	U
AP	03	517014003	7/1/2020	Nb-95	-3.29E-04	2.08E-04	5.18E-04	U
AP	03	517014003	7/1/2020	Ru-103	4.11E-05	2.13E-04	7.07E-04	U
AP	03	517014003	7/1/2020	Ru-106	-3.27E-04	7.39E-04	2.28E-03	U
AP	03	517014003	7/1/2020	Sb-124	-2.69E-05	5.10E-04	1.64E-03	U
AP	03	517014003	7/1/2020	Sb-125	1.68E-04	1.67E-04	5.74E-04	U
AP	03	517014003	7/1/2020	Se-75	-1.58E-04	1.28E-04	3.87E-04	U
AP	03	517014003	7/1/2020	Th-228	4.45E-04	2.78E-04	4.85E-04	U
AP	03	517014003	7/1/2020	Zn-65	-1.28E-05	1.76E-04	5.08E-04	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/m^3)	STD.DEV. (pCi/m^3)	MDC (pCi/m^3)	FLAGS
AP	03	517014003	7/1/2020	Zr-95	1.15E-04	3.57E-04	1.05E-03	U
AP	03	516358003	7/17/2020	BETA	1.47E-02	8.70E-04	9.30E-04	
AP	03	517178003	7/29/2020	BETA	3.35E-02	1.53E-03	1.47E-03	
AP	03	518829003	8/12/2020	BETA	3.30E-02	1.32E-03	1.01E-03	
AP	03	519921003	8/26/2020	BETA	3.10E-02	1.29E-03	9.95E-04	
AP	03	521451003	9/9/2020	BETA	2.29E-02	1.09E-03	9.03E-04	
AP	03	522475003	9/23/2020	BETA	2.26E-02	1.11E-03	9.69E-04	
AP	03	526420003	9/23/2020	Ac-228	2.80E-04	4.96E-04	1.72E-03	U
AP	03	526420003	9/23/2020	Ag-108m	5.03E-05	8.00E-05	2.65E-04	U
AP	03	526420003	9/23/2020	Ag-110m	1.84E-05	1.56E-04	5.22E-04	U
AP	03	526420003	9/23/2020	Ba-140	5.46E-02	3.99E-02	1.34E-01	U
AP	03	526420003	9/23/2020	Be-7	1.28E-01	8.69E-03	6.48E-03	
AP	03	526420003	9/23/2020	Ce-141	2.78E-04	7.01E-04	2.21E-03	U
AP	03	526420003	9/23/2020	Ce-144	-1.62E-04	4.43E-04	1.48E-03	U
AP	03	526420003	9/23/2020	Co-57	1.85E-05	5.64E-05	1.95E-04	U
AP	03	526420003	9/23/2020	Co-58	2.40E-04	2.32E-04	7.91E-04	U
AP	03	526420003	9/23/2020	Co-60	-2.59E-06	1.19E-04	3.81E-04	U
AP	03	526420003	9/23/2020	Cr-51	-3.74E-03	6.03E-03	1.88E-02	U
AP	03	526420003	9/23/2020	Cs-134	1.76E-04	1.29E-04	4.28E-04	U
AP	03	526420003	9/23/2020	Cs-137	1.27E-04	9.36E-05	3.30E-04	U
AP	03	526420003	9/23/2020	Fe-59	5.02E-04	5.38E-04	1.94E-03	U
AP	03	526420003	9/23/2020	I-131	0.00E+00	1.76E-01	0.00E+00	UI
AP	03	526420003	9/23/2020	K-40	5.63E-03	1.72E-03	2.55E-03	
AP	03	526420003	9/23/2020	La-140	-8.93E-03	1.41E-02	4.23E-02	U
AP	03	526420003	9/23/2020	Mn-54	-1.69E-04	1.08E-04	2.78E-04	U
AP	03	526420003	9/23/2020	Nb-95	3.44E-04	2.41E-04	8.46E-04	U
AP	03	526420003	9/23/2020	Ru-103	-1.20E-04	3.53E-04	1.09E-03	U
AP	03	526420003	9/23/2020	Ru-106	5.26E-05	8.78E-04	2.98E-03	U
AP	03	526420003	9/23/2020	Sb-124	9.17E-04	5.80E-04	2.24E-03	U
AP	03	526420003	9/23/2020	Sb-125	2.37E-04	2.48E-04	7.53E-04	U
AP	03	526420003	9/23/2020	Se-75	-4.90E-05	1.74E-04	5.65E-04	U
AP	03	526420003	9/23/2020	Th-228	0.00E+00	2.41E-04	5.86E-04	U
AP	03	526420003	9/23/2020	Zn-65	-3.06E-04	3.30E-04	9.56E-04	U
AP	03	526420003	9/23/2020	Zr-95	-6.87E-04	4.08E-04	1.03E-03	U
AP	03	523935003	10/7/2020	BETA	3.25E-02	1.32E-03	9.76E-04	
AP	03	525295003	10/21/2020	BETA	2.66E-02	1.18E-03	9.74E-04	
AP	03	527529003	11/6/2020	BETA	2.31E-02	1.02E-03	7.99E-04	
AP	03	528278003	11/18/2020	BETA	3.98E-02	1.58E-03	1.23E-03	
AP	03	529289003	12/2/2020	BETA	2.52E-02	1.16E-03	9.76E-04	
AP	03	530489003	12/16/2020	BETA	2.49E-02	1.15E-03	9.25E-04	
AP	03	531226003	12/30/2020	BETA	2.40E-02	1.17E-03	1.00E-03	
AP	03	533257003	12/30/2020	Ac-228	5.82E-04	5.94E-04	1.70E-03	U
AP	03	533257003	12/30/2020	Ag-108m	6.64E-05	6.93E-05	2.37E-04	U
AP	03	533257003	12/30/2020	Ag-110m	2.32E-04	2.01E-04	7.08E-04	U
AP	03	533257003	12/30/2020	Ba-140	5.40E-02	3.23E-02	7.35E-02	U
AP	03	533257003	12/30/2020	Be-7	9.40E-02	7.86E-03	5.58E-03	

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/m^3)	STD.DEV. (pCi/m^3)	MDC (pCi/m^3)	FLAGS
AP	03	533257003	12/30/2020	Ce-141	1.41E-04	4.48E-04	1.42E-03	U
AP	03	533257003	12/30/2020	Ce-144	8.69E-05	3.96E-04	1.16E-03	U
AP	03	533257003	12/30/2020	Co-57	3.48E-05	4.67E-05	1.51E-04	U
AP	03	533257003	12/30/2020	Co-58	1.59E-04	2.19E-04	7.26E-04	U
AP	03	533257003	12/30/2020	Co-60	2.06E-05	9.87E-05	3.29E-04	U
AP	03	533257003	12/30/2020	Cr-51	2.00E-03	3.80E-03	1.29E-02	U
AP	03	533257003	12/30/2020	Cs-134	1.70E-04	1.14E-04	4.10E-04	U
AP	03	533257003	12/30/2020	Cs-137	-1.63E-04	9.69E-05	2.50E-04	U
AP	03	533257003	12/30/2020	Fe-59	-1.02E-03	7.41E-04	1.80E-03	U
AP	03	533257003	12/30/2020	I-131	3.95E-02	5.90E-02	2.01E-01	U
AP	03	533257003	12/30/2020	K-40	0.00E+00	1.60E-03	3.10E-03	U
AP	03	533257003	12/30/2020	La-140	-6.84E-03	9.15E-03	2.70E-02	U
AP	03	533257003	12/30/2020	Mn-54	1.34E-04	1.31E-04	4.63E-04	U
AP	03	533257003	12/30/2020	Nb-95	-3.38E-04	2.32E-04	6.27E-04	U
AP	03	533257003	12/30/2020	Ru-103	3.70E-04	2.88E-04	9.94E-04	U
AP	03	533257003	12/30/2020	Ru-106	-1.42E-04	9.24E-04	2.54E-03	U
AP	03	533257003	12/30/2020	Sb-124	-4.28E-04	6.48E-04	1.92E-03	U
AP	03	533257003	12/30/2020	Sb-125	1.29E-04	2.25E-04	7.59E-04	U
AP	03	533257003	12/30/2020	Se-75	2.38E-05	1.31E-04	4.44E-04	U
AP	03	533257003	12/30/2020	Th-228	2.01E-04	1.71E-04	3.60E-04	U
AP	03	533257003	12/30/2020	Zn-65	-3.32E-04	3.29E-04	7.45E-04	U
AP	03	533257003	12/30/2020	Zr-95	-9.74E-05	3.69E-04	1.21E-03	U
AP	04	501552004	1/15/2020	BETA	1.97E-02	9.92E-04	9.21E-04	
AP	04	502825004	1/29/2020	BETA	3.03E-02	1.36E-03	1.10E-03	
AP	04	504483004	2/12/2020	BETA	2.55E-02	1.17E-03	1.01E-03	
AP	04	505599004	2/26/2020	BETA	3.60E-02	1.39E-03	9.72E-04	
AP	04	506904004	3/11/2020	BETA	2.64E-02	1.17E-03	9.08E-04	
AP	04	508060004	3/25/2020	BETA	2.89E-02	1.22E-03	9.16E-04	
AP	04	510636004	3/25/2020	Ac-228	4.22E-04	4.95E-04	1.68E-03	U
AP	04	510636004	3/25/2020	Ag-108m	-2.23E-05	8.73E-05	2.73E-04	U
AP	04	510636004	3/25/2020	Ag-110m	3.16E-06	1.45E-04	4.74E-04	U
AP	04	510636004	3/25/2020	Ba-140	-2.20E-02	3.59E-02	1.15E-01	U
AP	04	510636004	3/25/2020	Be-7	1.32E-01	1.04E-02	6.33E-03	
AP	04	510636004	3/25/2020	Ce-141	7.35E-05	6.28E-04	2.15E-03	U
AP	04	510636004	3/25/2020	Ce-144	-9.95E-04	5.86E-04	1.69E-03	U
AP	04	510636004	3/25/2020	Co-57	-1.55E-04	8.03E-05	2.24E-04	U
AP	04	510636004	3/25/2020	Co-58	-2.27E-04	2.17E-04	6.06E-04	U
AP	04	510636004	3/25/2020	Co-60	9.49E-05	1.27E-04	4.58E-04	U
AP	04	510636004	3/25/2020	Cr-51	-9.37E-03	6.98E-03	1.98E-02	U
AP	04	510636004	3/25/2020	Cs-134	9.80E-05	1.52E-04	5.22E-04	U
AP	04	510636004	3/25/2020	Cs-137	-2.58E-05	9.39E-05	3.05E-04	U
AP	04	510636004	3/25/2020	Fe-59	6.16E-04	7.70E-04	2.68E-03	U
AP	04	510636004	3/25/2020	I-131	-2.59E-02	1.50E-01	0.00E+00	U
AP	04	510636004	3/25/2020	K-40	1.10E-03	1.37E-03	4.84E-03	U
AP	04	510636004	3/25/2020	La-140	-1.22E-02	1.28E-02	3.39E-02	U
AP	04	510636004	3/25/2020	Mn-54	-1.17E-04	1.28E-04	3.70E-04	U
AP	04	510636004	3/25/2020	Nb-95	4.53E-05	2.33E-04	7.84E-04	U
AP	04	510636004	3/25/2020	Ru-103	-2.49E-04	4.29E-04	1.28E-03	U
AP	04	510636004	3/25/2020	Ru-106	-5.84E-04	1.18E-03	3.80E-03	U

Seabrook REMP Summary of 2020 Data

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/m^3)	STD.DEV. (pCi/m^3)	MDC (pCi/m^3)	FLAGS
AP	04	510636004	3/25/2020	Sb-124	-8.61E-04	6.78E-04	1.55E-03	U
AP	04	510636004	3/25/2020	Sb-125	2.77E-04	2.51E-04	8.50E-04	U
AP	04	510636004	3/25/2020	Se-75	-2.76E-04	1.89E-04	5.34E-04	U
AP	04	510636004	3/25/2020	Th-228	-1.09E-04	2.00E-04	6.32E-04	U
AP	04	510636004	3/25/2020	Zn-65	2.11E-04	3.44E-04	1.17E-03	U
AP	04	510636004	3/25/2020	Zr-95	9.37E-05	3.87E-04	1.31E-03	U
AP	04	509289004	4/9/2020	BETA	1.51E-02	7.95E-04	7.35E-04	
AP	04	510087004	4/22/2020	BETA	2.11E-02	1.03E-03	9.03E-04	
AP	04	510960004	5/6/2020	BETA	1.75E-02	8.95E-04	8.18E-04	
AP	04	511920004	5/20/2020	BETA	1.80E-02	9.30E-04	8.30E-04	
AP	04	512893004	6/3/2020	BETA	1.51E-02	8.86E-04	9.22E-04	
AP	04	514085004	6/17/2020	BETA	1.91E-02	9.80E-04	8.99E-04	
AP	04	515124004	7/1/2020	BETA	2.24E-02	1.06E-03	9.01E-04	
AP	04	517014004	7/1/2020	Ac-228	1.44E-04	4.16E-04	1.24E-03	U
AP	04	517014004	7/1/2020	Ag-108m	7.86E-05	4.99E-05	1.74E-04	U
AP	04	517014004	7/1/2020	Ag-110m	-1.19E-04	1.05E-04	2.81E-04	U
AP	04	517014004	7/1/2020	Ba-140	-3.56E-02	1.95E-02	4.91E-02	U
AP	04	517014004	7/1/2020	Be-7	1.33E-01	8.19E-03	4.72E-03	
AP	04	517014004	7/1/2020	Ce-141	-6.92E-04	4.57E-04	1.26E-03	U
AP	04	517014004	7/1/2020	Ce-144	-1.89E-04	3.76E-04	1.17E-03	U
AP	04	517014004	7/1/2020	Co-57	2.31E-05	4.54E-05	1.49E-04	U
AP	04	517014004	7/1/2020	Co-58	-1.79E-04	1.57E-04	3.63E-04	U
AP	04	517014004	7/1/2020	Co-60	3.62E-05	8.75E-05	3.08E-04	U
AP	04	517014004	7/1/2020	Cr-51	-3.55E-03	3.53E-03	1.12E-02	U
AP	04	517014004	7/1/2020	Cs-134	-2.58E-05	6.73E-05	2.09E-04	U
AP	04	517014004	7/1/2020	Cs-137	-6.72E-05	7.24E-05	2.15E-04	U
AP	04	517014004	7/1/2020	Fe-59	2.69E-04	5.78E-04	1.92E-03	U
AP	04	517014004	7/1/2020	I-131	-1.18E-01	6.53E-02	0.00E+00	U
AP	04	517014004	7/1/2020	K-40	0.00E+00	1.58E-03	1.99E-03	U
AP	04	517014004	7/1/2020	La-140	-1.68E-03	7.12E-03	2.30E-02	U
AP	04	517014004	7/1/2020	Mn-54	5.79E-05	8.02E-05	2.75E-04	U
AP	04	517014004	7/1/2020	Nb-95	-5.68E-05	1.60E-04	5.06E-04	U
AP	04	517014004	7/1/2020	Ru-103	1.16E-04	2.34E-04	8.05E-04	U
AP	04	517014004	7/1/2020	Ru-106	1.76E-03	7.57E-04	2.52E-03	U
AP	04	517014004	7/1/2020	Sb-124	-6.55E-05	4.18E-04	1.36E-03	U
AP	04	517014004	7/1/2020	Sb-125	-6.05E-05	1.48E-04	4.83E-04	U
AP	04	517014004	7/1/2020	Se-75	8.30E-05	1.35E-04	4.32E-04	U
AP	04	517014004	7/1/2020	Th-228	1.71E-04	1.78E-04	4.32E-04	U
AP	04	517014004	7/1/2020	Zn-65	-1.30E-04	1.90E-04	5.43E-04	U
AP	04	517014004	7/1/2020	Zr-95	3.14E-04	2.91E-04	1.01E-03	U
AP	04	516358004	7/17/2020	BETA	1.76E-02	9.26E-04	8.40E-04	
AP	04	517178004	7/29/2020	BETA	3.54E-02	1.55E-03	1.24E-03	
AP	04	518829004	8/12/2020	BETA	3.07E-02	1.28E-03	1.00E-03	
AP	04	519921004	8/26/2020	BETA	2.70E-02	1.23E-03	1.01E-03	
AP	04	521451004	9/9/2020	BETA	2.21E-02	1.15E-03	1.18E-03	
AP	04	522475004	9/23/2020	BETA	2.02E-02	1.18E-03	1.22E-03	

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/m^3)	STD.DEV. (pCi/m^3)	MDC (pCi/m^3)	FLAGS
AP	04	526420004	9/23/2020	Ac-228	-2.70E-05	5.15E-04	1.63E-03	U
AP	04	526420004	9/23/2020	Ag-108m	-1.99E-04	8.23E-05	1.69E-04	U
AP	04	526420004	9/23/2020	Ag-110m	1.29E-05	1.82E-04	6.05E-04	U
AP	04	526420004	9/23/2020	Ba-140	2.20E-02	4.93E-02	1.46E-01	U
AP	04	526420004	9/23/2020	Be-7	1.18E-01	9.87E-03	7.83E-03	
AP	04	526420004	9/23/2020	Ce-141	-1.05E-03	7.70E-04	2.00E-03	U
AP	04	526420004	9/23/2020	Ce-144	5.26E-05	4.93E-04	1.57E-03	U
AP	04	526420004	9/23/2020	Co-57	-6.69E-05	6.51E-05	1.91E-04	U
AP	04	526420004	9/23/2020	Co-58	3.99E-05	2.14E-04	7.26E-04	U
AP	04	526420004	9/23/2020	Co-60	1.58E-04	1.46E-04	4.76E-04	U
AP	04	526420004	9/23/2020	Cr-51	4.19E-03	6.19E-03	2.11E-02	U
AP	04	526420004	9/23/2020	Cs-134	1.44E-04	1.18E-04	4.15E-04	U
AP	04	526420004	9/23/2020	Cs-137	1.63E-05	9.30E-05	3.19E-04	U
AP	04	526420004	9/23/2020	Fe-59	-1.20E-03	6.13E-04	5.68E-04	U
AP	04	526420004	9/23/2020	I-131	-2.52E-01	2.25E-01	0.00E+00	U
AP	04	526420004	9/23/2020	K-40	6.10E-04	2.15E-03	7.34E-03	U
AP	04	526420004	9/23/2020	La-140	-7.66E-03	2.10E-02	5.67E-02	U
AP	04	526420004	9/23/2020	Mn-54	-2.33E-04	1.45E-04	3.90E-04	U
AP	04	526420004	9/23/2020	Nb-95	-2.04E-05	2.72E-04	8.46E-04	U
AP	04	526420004	9/23/2020	Ru-103	-4.54E-04	4.06E-04	1.15E-03	U
AP	04	526420004	9/23/2020	Ru-106	-1.72E-03	1.15E-03	2.43E-03	U
AP	04	526420004	9/23/2020	Sb-124	-3.68E-04	6.35E-04	1.90E-03	U
AP	04	526420004	9/23/2020	Sb-125	1.92E-04	2.33E-04	7.89E-04	U
AP	04	526420004	9/23/2020	Se-75	1.92E-05	1.58E-04	5.37E-04	U
AP	04	526420004	9/23/2020	Th-228	0.00E+00	3.78E-04	6.39E-04	U
AP	04	526420004	9/23/2020	Zn-65	-6.90E-04	3.36E-04	7.01E-04	U
AP	04	526420004	9/23/2020	Zr-95	8.41E-05	4.18E-04	1.42E-03	U
AP	04	523935004	10/7/2020	BETA	3.70E-02	1.55E-03	1.15E-03	
AP	04	525295004	10/21/2020	BETA	3.13E-02	1.47E-03	1.21E-03	
AP	04	527529004	11/6/2020	BETA	2.70E-02	1.05E-03	6.98E-04	
AP	04	528278004	11/18/2020	BETA	5.74E-02	1.80E-03	1.06E-03	
AP	04	529289004	12/2/2020	BETA	3.02E-02	1.18E-03	8.32E-04	
AP	04	530489004	12/16/2020	BETA	2.56E-02	1.11E-03	8.63E-04	
AP	04	531226004	12/30/2020	BETA	3.04E-02	1.20E-03	9.02E-04	
AP	04	533257004	12/30/2020	Ac-228	1.23E-03	5.04E-04	1.66E-03	U
AP	04	533257004	12/30/2020	Ag-108m	-9.18E-05	6.35E-05	1.73E-04	U
AP	04	533257004	12/30/2020	Ag-110m	-2.08E-05	1.27E-04	3.67E-04	U
AP	04	533257004	12/30/2020	Ba-140	1.51E-02	1.92E-02	6.49E-02	U
AP	04	533257004	12/30/2020	Be-7	1.18E-01	8.51E-03	5.15E-03	
AP	04	533257004	12/30/2020	Ce-141	-1.86E-04	3.74E-04	1.13E-03	U
AP	04	533257004	12/30/2020	Ce-144	-3.73E-04	3.39E-04	9.51E-04	U
AP	04	533257004	12/30/2020	Co-57	-1.06E-04	5.56E-05	1.26E-04	U
AP	04	533257004	12/30/2020	Co-58	5.82E-05	1.51E-04	5.28E-04	U
AP	04	533257004	12/30/2020	Co-60	1.05E-04	9.29E-05	3.40E-04	U
AP	04	533257004	12/30/2020	Cr-51	1.15E-03	3.26E-03	1.11E-02	U
AP	04	533257004	12/30/2020	Cs-134	2.55E-05	9.42E-05	3.27E-04	U
AP	04	533257004	12/30/2020	Cs-137	-7.78E-05	8.28E-05	2.33E-04	U
AP	04	533257004	12/30/2020	Fe-59	4.03E-04	5.33E-04	1.89E-03	U
AP	04	533257004	12/30/2020	I-131	-2.15E-02	5.59E-02	1.81E-01	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/m^3)	STD.DEV. (pCi/m^3)	MDC (pCi/m^3)	FLAGS
AP	04	533257004	12/30/2020	K-40	4.01E-04	2.03E-03	1.53E-03	U
AP	04	533257004	12/30/2020	La-140	-9.80E-03	8.07E-03	1.98E-02	U
AP	04	533257004	12/30/2020	Mn-54	-4.94E-05	9.69E-05	3.11E-04	U
AP	04	533257004	12/30/2020	Nb-95	2.15E-04	1.91E-04	6.50E-04	U
AP	04	533257004	12/30/2020	Ru-103	1.47E-04	2.60E-04	7.98E-04	U
AP	04	533257004	12/30/2020	Ru-106	-1.07E-03	8.71E-04	2.36E-03	U
AP	04	533257004	12/30/2020	Sb-124	8.32E-04	4.76E-04	1.86E-03	U
AP	04	533257004	12/30/2020	Sb-125	-3.81E-04	2.20E-04	5.69E-04	U
AP	04	533257004	12/30/2020	Se-75	-1.53E-04	1.26E-04	3.80E-04	U
AP	04	533257004	12/30/2020	Th-228	0.00E+00	2.08E-04	3.50E-04	U
AP	04	533257004	12/30/2020	Zn-65	-1.56E-04	2.42E-04	7.38E-04	U
AP	04	533257004	12/30/2020	Zr-95	3.20E-04	2.94E-04	1.02E-03	U
AP	05	501552005	1/15/2020	BETA	2.38E-02	1.21E-03	1.15E-03	
AP	05	502825005	1/29/2020	BETA	2.26E-02	1.13E-03	1.05E-03	
AP	05	504483005	2/12/2020	BETA	2.24E-02	1.16E-03	1.06E-03	
AP	05	505599005	2/26/2020	BETA	3.97E-02	1.67E-03	1.27E-03	
AP	05	506904005	3/11/2020	BETA	2.40E-02	1.25E-03	1.14E-03	
AP	05	508060015	3/30/2020	BETA	2.62E-02	1.20E-03	9.75E-04	
AP	05	510636008	3/30/2020	Ac-228	-6.70E-04	5.47E-04	1.62E-03	U
AP	05	510636008	3/30/2020	Ag-108m	1.26E-05	7.45E-05	2.49E-04	U
AP	05	510636008	3/30/2020	Ag-110m	-1.69E-04	1.73E-04	4.25E-04	U
AP	05	510636008	3/30/2020	Ba-140	1.10E-02	2.73E-02	9.15E-02	U
AP	05	510636008	3/30/2020	Be-7	1.09E-01	8.98E-03	6.87E-03	
AP	05	510636008	3/30/2020	Ce-141	-3.56E-04	6.44E-04	1.91E-03	U
AP	05	510636008	3/30/2020	Ce-144	1.53E-04	4.38E-04	1.43E-03	U
AP	05	510636008	3/30/2020	Co-57	-5.69E-05	6.32E-05	1.89E-04	U
AP	05	510636008	3/30/2020	Co-58	2.58E-04	1.90E-04	6.91E-04	U
AP	05	510636008	3/30/2020	Co-60	1.64E-04	1.25E-04	4.51E-04	U
AP	05	510636008	3/30/2020	Cr-51	-2.52E-04	4.87E-03	1.64E-02	U
AP	05	510636008	3/30/2020	Cs-134	2.08E-04	1.16E-04	4.16E-04	U
AP	05	510636008	3/30/2020	Cs-137	7.18E-05	9.50E-05	3.22E-04	U
AP	05	510636008	3/30/2020	Fe-59	1.19E-04	7.53E-04	2.62E-03	U
AP	05	510636008	3/30/2020	I-131	-8.52E-02	9.68E-02	0.00E+00	U
AP	05	510636008	3/30/2020	K-40	0.00E+00	2.20E-03	3.15E-03	U
AP	05	510636008	3/30/2020	La-140	-1.87E-02	1.22E-02	2.56E-02	U
AP	05	510636008	3/30/2020	Mn-54	-1.60E-04	1.25E-04	3.57E-04	U
AP	05	510636008	3/30/2020	Nb-95	-6.32E-05	3.09E-04	8.28E-04	U
AP	05	510636008	3/30/2020	Ru-103	-1.64E-04	3.12E-04	9.71E-04	U
AP	05	510636008	3/30/2020	Ru-106	-7.14E-04	9.95E-04	2.96E-03	U
AP	05	510636008	3/30/2020	Sb-124	-4.79E-04	5.39E-04	1.50E-03	U
AP	05	510636008	3/30/2020	Sb-125	-1.82E-04	2.04E-04	6.12E-04	U
AP	05	510636008	3/30/2020	Se-75	5.23E-04	2.15E-04	5.88E-04	U
AP	05	510636008	3/30/2020	Th-228	1.38E-04	2.74E-04	4.39E-04	U
AP	05	510636008	3/30/2020	Zn-65	1.82E-04	2.87E-04	1.00E-03	U
AP	05	510636008	3/30/2020	Zr-95	2.11E-04	3.28E-04	1.11E-03	U
AP	05	509289005	4/9/2020	BETA	1.11E-02	9.05E-04	1.22E-03	
AP	05	510087005	4/22/2020	BETA	2.91E-02	1.31E-03	1.05E-03	

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/m^3)	STD.DEV. (pCi/m^3)	MDC (pCi/m^3)	FLAGS
AP	05	510960005	5/6/2020	BETA	1.63E-02	8.98E-04	8.82E-04	
AP	05	511920005	5/20/2020	BETA	1.90E-02	9.94E-04	8.97E-04	
AP	05	512893005	6/3/2020	BETA	1.73E-02	9.52E-04	9.50E-04	
AP	05	514085005	6/17/2020	BETA	2.31E-02	1.08E-03	9.03E-04	
AP	05	515124005	7/1/2020	BETA	2.16E-02	1.10E-03	1.13E-03	
AP	05	517014005	7/1/2020	Ac-228	3.93E-05	4.67E-04	1.22E-03	U
AP	05	517014005	7/1/2020	Ag-108m	-2.54E-05	4.95E-05	1.60E-04	U
AP	05	517014005	7/1/2020	Ag-110m	6.52E-05	9.98E-05	3.45E-04	U
AP	05	517014005	7/1/2020	Ba-140	-3.66E-02	1.84E-02	4.19E-02	U
AP	05	517014005	7/1/2020	Be-7	1.23E-01	8.25E-03	4.60E-03	
AP	05	517014005	7/1/2020	Ce-141	2.69E-04	4.77E-04	1.09E-03	U
AP	05	517014005	7/1/2020	Ce-144	-7.42E-06	2.94E-04	9.53E-04	U
AP	05	517014005	7/1/2020	Co-57	6.59E-05	4.40E-05	1.46E-04	U
AP	05	517014005	7/1/2020	Co-58	-1.69E-04	1.43E-04	3.80E-04	U
AP	05	517014005	7/1/2020	Co-60	-7.13E-05	9.06E-05	2.71E-04	U
AP	05	517014005	7/1/2020	Cr-51	1.51E-04	3.15E-03	1.09E-02	U
AP	05	517014005	7/1/2020	Cs-134	7.31E-05	9.06E-05	2.46E-04	U
AP	05	517014005	7/1/2020	Cs-137	3.42E-05	5.45E-05	1.90E-04	U
AP	05	517014005	7/1/2020	Fe-59	1.17E-04	4.52E-04	1.48E-03	U
AP	05	517014005	7/1/2020	I-131	0.00E+00	6.36E-02	0.00E+00	UI
AP	05	517014005	7/1/2020	K-40	0.00E+00	1.50E-03	2.97E-03	U
AP	05	517014005	7/1/2020	La-140	7.68E-04	7.10E-03	2.39E-02	U
AP	05	517014005	7/1/2020	Mn-54	-1.45E-04	9.76E-05	1.97E-04	U
AP	05	517014005	7/1/2020	Nb-95	-1.36E-04	1.46E-04	4.14E-04	U
AP	05	517014005	7/1/2020	Ru-103	-2.01E-04	2.45E-04	6.54E-04	U
AP	05	517014005	7/1/2020	Ru-106	-6.76E-06	7.07E-04	2.34E-03	U
AP	05	517014005	7/1/2020	Sb-124	-5.54E-04	4.59E-04	1.13E-03	U
AP	05	517014005	7/1/2020	Sb-125	-9.21E-06	1.44E-04	4.84E-04	U
AP	05	517014005	7/1/2020	Se-75	1.17E-04	1.26E-04	3.82E-04	U
AP	05	517014005	7/1/2020	Th-228	9.29E-05	2.01E-04	4.51E-04	U
AP	05	517014005	7/1/2020	Zn-65	-4.57E-07	2.37E-04	7.49E-04	U
AP	05	517014005	7/1/2020	Zr-95	2.82E-04	2.84E-04	9.90E-04	U
AP	05	516358005	7/17/2020	BETA	1.50E-02	8.79E-04	8.86E-04	
AP	05	517178005	7/29/2020	BETA	3.25E-02	1.51E-03	1.29E-03	
AP	05	518829005	8/12/2020	BETA	2.92E-02	1.23E-03	9.98E-04	
AP	05	519921005	8/26/2020	BETA	2.63E-02	1.15E-03	9.09E-04	
AP	05	521451005	9/9/2020	BETA	2.15E-02	1.08E-03	9.58E-04	
AP	05	522475005	9/23/2020	BETA	1.94E-02	9.92E-04	8.85E-04	
AP	05	526420005	9/23/2020	Ac-228	-4.24E-04	9.11E-04	2.62E-03	U
AP	05	526420005	9/23/2020	Ag-108m	-5.88E-05	1.44E-04	4.10E-04	U
AP	05	526420005	9/23/2020	Ag-110m	5.05E-04	3.24E-04	1.13E-03	U
AP	05	526420005	9/23/2020	Ba-140	8.89E-02	8.16E-02	2.84E-01	U
AP	05	526420005	9/23/2020	Be-7	1.09E-01	1.17E-02	8.90E-03	
AP	05	526420005	9/23/2020	Ce-141	2.96E-04	8.91E-04	2.78E-03	U
AP	05	526420005	9/23/2020	Ce-144	4.89E-04	7.61E-04	2.57E-03	U
AP	05	526420005	9/23/2020	Co-57	3.11E-05	8.78E-05	2.97E-04	U
AP	05	526420005	9/23/2020	Co-58	1.26E-04	3.59E-04	1.20E-03	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/m^3)	STD.DEV. (pCi/m^3)	MDC (pCi/m^3)	FLAGS
AP	05	526420005	9/23/2020	Co-60	5.26E-05	2.12E-04	7.23E-04	U
AP	05	526420005	9/23/2020	Cr-51	1.01E-02	8.41E-03	2.81E-02	U
AP	05	526420005	9/23/2020	Cs-134	-1.77E-04	2.06E-04	5.90E-04	U
AP	05	526420005	9/23/2020	Cs-137	-2.96E-04	2.19E-04	5.06E-04	U
AP	05	526420005	9/23/2020	Fe-59	2.13E-04	1.65E-03	5.02E-03	U
AP	05	526420005	9/23/2020	I-131	0.00E+00	2.79E-01	0.00E+00	UI
AP	05	526420005	9/23/2020	K-40	5.15E-06	2.99E-03	6.41E-03	U
AP	05	526420005	9/23/2020	La-140	-8.98E-02	4.13E-02	6.89E-02	U
AP	05	526420005	9/23/2020	Mn-54	-2.19E-04	2.55E-04	6.66E-04	U
AP	05	526420005	9/23/2020	Nb-95	4.35E-04	4.58E-04	1.58E-03	U
AP	05	526420005	9/23/2020	Ru-103	7.34E-04	7.32E-04	2.56E-03	U
AP	05	526420005	9/23/2020	Ru-106	7.70E-04	1.78E-03	6.05E-03	U
AP	05	526420005	9/23/2020	Sb-124	3.22E-04	1.03E-03	3.54E-03	U
AP	05	526420005	9/23/2020	Sb-125	-2.70E-04	3.73E-04	1.18E-03	U
AP	05	526420005	9/23/2020	Se-75	3.84E-05	2.92E-04	9.35E-04	U
AP	05	526420005	9/23/2020	Th-228	1.44E-05	2.68E-04	9.36E-04	U
AP	05	526420005	9/23/2020	Zn-65	4.29E-04	4.50E-04	1.64E-03	U
AP	05	526420005	9/23/2020	Zr-95	1.12E-03	8.23E-04	2.87E-03	U
AP	05	523935005	10/7/2020	BETA	3.21E-02	1.28E-03	9.05E-04	
AP	05	525295005	10/21/2020	BETA	2.19E-02	1.09E-03	9.79E-04	
AP	05	527529005	11/6/2020	BETA	2.21E-02	1.02E-03	8.39E-04	
AP	05	528278005	11/18/2020	BETA	4.04E-02	1.58E-03	1.16E-03	
AP	05	529289005	12/2/2020	BETA	2.50E-02	1.15E-03	9.85E-04	
AP	05	530489005	12/16/2020	BETA	2.54E-02	1.17E-03	9.57E-04	
AP	05	531226005	12/30/2020	BETA	2.30E-02	1.09E-03	8.96E-04	
AP	05	533257005	12/30/2020	Ac-228	6.23E-04	4.80E-04	1.45E-03	U
AP	05	533257005	12/30/2020	Ag-108m	-5.25E-05	6.87E-05	2.02E-04	U
AP	05	533257005	12/30/2020	Ag-110m	-4.29E-04	2.15E-04	3.23E-04	U
AP	05	533257005	12/30/2020	Ba-140	-8.98E-03	1.69E-02	5.36E-02	U
AP	05	533257005	12/30/2020	Be-7	9.17E-02	7.43E-03	5.34E-03	
AP	05	533257005	12/30/2020	Ce-141	-4.36E-04	3.99E-04	1.25E-03	U
AP	05	533257005	12/30/2020	Ce-144	7.93E-05	3.96E-04	1.25E-03	U
AP	05	533257005	12/30/2020	Co-57	-2.62E-05	5.35E-05	1.61E-04	U
AP	05	533257005	12/30/2020	Co-58	1.24E-04	1.64E-04	5.66E-04	U
AP	05	533257005	12/30/2020	Co-60	-2.21E-04	1.30E-04	2.92E-04	U
AP	05	533257005	12/30/2020	Cr-51	-3.86E-03	3.84E-03	1.13E-02	U
AP	05	533257005	12/30/2020	Cs-134	-3.67E-06	8.32E-05	2.69E-04	U
AP	05	533257005	12/30/2020	Cs-137	-6.13E-05	8.60E-05	2.60E-04	U
AP	05	533257005	12/30/2020	Fe-59	1.38E-04	4.95E-04	1.71E-03	U
AP	05	533257005	12/30/2020	I-131	-3.58E-02	5.67E-02	1.72E-01	U
AP	05	533257005	12/30/2020	K-40	5.42E-04	1.57E-03	1.85E-03	U
AP	05	533257005	12/30/2020	La-140	-3.58E-03	8.04E-03	2.39E-02	U
AP	05	533257005	12/30/2020	Mn-54	1.91E-05	1.06E-04	3.38E-04	U
AP	05	533257005	12/30/2020	Nb-95	2.40E-04	1.86E-04	6.09E-04	U
AP	05	533257005	12/30/2020	Ru-103	3.54E-04	2.74E-04	9.64E-04	U
AP	05	533257005	12/30/2020	Ru-106	3.79E-04	9.46E-04	3.22E-03	U
AP	05	533257005	12/30/2020	Sb-124	1.27E-04	4.83E-04	1.69E-03	U
AP	05	533257005	12/30/2020	Sb-125	2.17E-04	2.14E-04	7.15E-04	U
AP	05	533257005	12/30/2020	Se-75	2.44E-05	1.24E-04	4.14E-04	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/m^3)	STD.DEV. (pCi/m^3)	MDC (pCi/m^3)	FLAGS
AP	05	533257005	12/30/2020	Th-228	2.73E-04	1.91E-04	4.77E-04	U
AP	05	533257005	12/30/2020	Zn-65	-1.14E-04	2.14E-04	6.60E-04	U
AP	05	533257005	12/30/2020	Zr-95	6.20E-05	2.90E-04	9.68E-04	U
AP	07	501552006	1/15/2020	BETA	2.48E-02	9.98E-04	7.48E-04	
AP	07	502825006	1/29/2020	BETA	2.27E-02	9.61E-04	7.67E-04	
AP	07	504483006	2/12/2020	BETA	2.89E-02	1.22E-03	9.62E-04	
AP	07	505599006	2/26/2020	BETA	3.58E-02	1.22E-03	7.65E-04	
AP	07	506904006	3/11/2020	BETA	2.29E-02	9.80E-04	7.53E-04	
AP	07	508060005	3/25/2020	BETA	2.56E-02	1.06E-03	9.01E-04	
AP	07	510636005	3/25/2020	Ac-228	3.62E-04	4.61E-04	1.43E-03	U
AP	07	510636005	3/25/2020	Ag-108m	1.33E-05	6.05E-05	2.05E-04	U
AP	07	510636005	3/25/2020	Ag-110m	-1.19E-04	9.04E-05	2.34E-04	U
AP	07	510636005	3/25/2020	Ba-140	2.30E-03	1.85E-02	6.15E-02	U
AP	07	510636005	3/25/2020	Be-7	1.40E-01	9.18E-03	5.81E-03	
AP	07	510636005	3/25/2020	Ce-141	-1.72E-04	4.34E-04	1.26E-03	U
AP	07	510636005	3/25/2020	Ce-144	-2.87E-04	3.74E-04	1.15E-03	U
AP	07	510636005	3/25/2020	Co-57	3.01E-05	4.66E-05	1.56E-04	U
AP	07	510636005	3/25/2020	Co-58	7.14E-05	1.26E-04	4.29E-04	U
AP	07	510636005	3/25/2020	Co-60	-6.25E-05	7.76E-05	2.17E-04	U
AP	07	510636005	3/25/2020	Cr-51	-7.10E-04	3.61E-03	1.22E-02	U
AP	07	510636005	3/25/2020	Cs-134	-1.58E-04	9.51E-05	2.20E-04	U
AP	07	510636005	3/25/2020	Cs-137	1.17E-04	1.21E-04	2.42E-04	U
AP	07	510636005	3/25/2020	Fe-59	-5.36E-04	5.73E-04	1.67E-03	U
AP	07	510636005	3/25/2020	I-131	-3.12E-02	8.13E-02	0.00E+00	U
AP	07	510636005	3/25/2020	K-40	2.57E-03	1.92E-03	2.67E-03	U
AP	07	510636005	3/25/2020	La-140	-1.13E-03	8.09E-03	2.54E-02	U
AP	07	510636005	3/25/2020	Mn-54	0.00E+00	0.00E+00	2.83E-04	U
AP	07	510636005	3/25/2020	Nb-95	-4.34E-05	2.29E-04	6.82E-04	U
AP	07	510636005	3/25/2020	Ru-103	5.01E-05	2.72E-04	9.13E-04	U
AP	07	510636005	3/25/2020	Ru-106	6.74E-05	7.76E-04	2.43E-03	U
AP	07	510636005	3/25/2020	Sb-124	-1.17E-03	5.98E-04	9.71E-04	U
AP	07	510636005	3/25/2020	Sb-125	-1.06E-04	1.74E-04	5.51E-04	U
AP	07	510636005	3/25/2020	Se-75	5.90E-05	1.26E-04	4.03E-04	U
AP	07	510636005	3/25/2020	Th-228	1.75E-04	1.67E-04	3.45E-04	U
AP	07	510636005	3/25/2020	Zn-65	1.02E-05	2.19E-04	7.33E-04	U
AP	07	510636005	3/25/2020	Zr-95	8.74E-05	3.25E-04	9.59E-04	U
AP	07	509289006	4/9/2020	BETA	1.87E-02	1.00E-03	9.30E-04	
AP	07	510087006	4/22/2020	BETA	2.35E-02	1.13E-03	1.06E-03	
AP	07	510960006	5/6/2020	BETA	2.26E-02	1.16E-03	9.87E-04	
AP	07	511920006	5/20/2020	BETA	1.63E-02	9.31E-04	9.28E-04	
AP	07	512893006	6/3/2020	BETA	1.79E-02	9.78E-04	9.73E-04	
AP	07	514085006	6/17/2020	BETA	2.03E-02	1.09E-03	1.14E-03	
AP	07	515124006	7/1/2020	BETA	2.59E-02	1.25E-03	1.11E-03	
AP	07	517014006	7/1/2020	Ac-228	-1.17E-03	6.07E-04	1.39E-03	U
AP	07	517014006	7/1/2020	Ag-108m	-3.96E-05	7.57E-05	2.04E-04	U
AP	07	517014006	7/1/2020	Ag-110m	-6.60E-05	1.52E-04	4.78E-04	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/m^3)	STD.DEV. (pCi/m^3)	MDC (pCi/m^3)	FLAGS
AP	07	517014006	7/1/2020	Ba-140	4.55E-02	2.90E-02	9.01E-02	U
AP	07	517014006	7/1/2020	Be-7	1.34E-01	9.76E-03	7.45E-03	
AP	07	517014006	7/1/2020	Ce-141	-2.55E-04	4.60E-04	1.53E-03	U
AP	07	517014006	7/1/2020	Ce-144	4.67E-05	3.71E-04	1.16E-03	U
AP	07	517014006	7/1/2020	Co-57	-4.29E-06	4.88E-05	1.52E-04	U
AP	07	517014006	7/1/2020	Co-58	1.67E-05	1.95E-04	6.57E-04	U
AP	07	517014006	7/1/2020	Co-60	1.43E-04	1.21E-04	4.35E-04	U
AP	07	517014006	7/1/2020	Cr-51	1.50E-03	4.66E-03	1.56E-02	U
AP	07	517014006	7/1/2020	Cs-134	7.11E-05	1.24E-04	3.91E-04	U
AP	07	517014006	7/1/2020	Cs-137	-1.17E-04	1.26E-04	3.30E-04	U
AP	07	517014006	7/1/2020	Fe-59	6.31E-04	4.19E-04	1.66E-03	U
AP	07	517014006	7/1/2020	I-131	-2.39E-02	8.53E-02	0.00E+00	U
AP	07	517014006	7/1/2020	K-40	1.79E-03	1.73E-03	6.22E-03	U
AP	07	517014006	7/1/2020	La-140	-2.08E-03	9.27E-03	2.99E-02	U
AP	07	517014006	7/1/2020	Mn-54	-5.12E-05	1.07E-04	3.37E-04	U
AP	07	517014006	7/1/2020	Nb-95	-5.88E-04	2.72E-04	5.51E-04	U
AP	07	517014006	7/1/2020	Ru-103	-4.06E-04	3.14E-04	8.28E-04	U
AP	07	517014006	7/1/2020	Ru-106	-2.72E-04	8.39E-04	2.77E-03	U
AP	07	517014006	7/1/2020	Sb-124	-3.73E-04	3.99E-04	9.43E-04	U
AP	07	517014006	7/1/2020	Sb-125	8.39E-05	2.45E-04	8.12E-04	U
AP	07	517014006	7/1/2020	Se-75	-9.97E-05	1.49E-04	4.75E-04	U
AP	07	517014006	7/1/2020	Th-228	9.07E-05	1.67E-04	3.67E-04	U
AP	07	517014006	7/1/2020	Zn-65	2.24E-04	2.44E-04	8.73E-04	U
AP	07	517014006	7/1/2020	Zr-95	-1.93E-04	4.04E-04	1.29E-03	U
AP	07	516358006	7/17/2020	BETA	1.37E-02	8.70E-04	9.22E-04	
AP	07	517178006	7/29/2020	BETA	3.44E-02	1.55E-03	1.23E-03	
AP	07	518829006	8/12/2020	BETA	3.36E-02	1.26E-03	9.95E-04	
AP	07	519921006	8/26/2020	BETA	1.72E-02	9.22E-04	9.61E-04	
AP	07	521451006	9/9/2020	BETA	1.92E-02	9.57E-04	8.67E-04	
AP	07	522475006	9/23/2020	BETA	1.65E-02	9.05E-04	9.60E-04	
AP	07	526420006	9/23/2020	Ac-228	9.63E-04	8.13E-04	1.84E-03	U
AP	07	526420006	9/23/2020	Ag-108m	3.58E-06	6.80E-05	2.26E-04	U
AP	07	526420006	9/23/2020	Ag-110m	-8.83E-05	1.81E-04	5.39E-04	U
AP	07	526420006	9/23/2020	Ba-140	3.90E-02	3.61E-02	1.27E-01	U
AP	07	526420006	9/23/2020	Be-7	1.18E-01	1.00E-02	7.31E-03	
AP	07	526420006	9/23/2020	Ce-141	-8.76E-05	6.88E-04	1.98E-03	U
AP	07	526420006	9/23/2020	Ce-144	5.75E-04	5.15E-04	1.68E-03	U
AP	07	526420006	9/23/2020	Co-57	3.43E-05	6.96E-05	2.12E-04	U
AP	07	526420006	9/23/2020	Co-58	-1.73E-04	2.10E-04	5.87E-04	U
AP	07	526420006	9/23/2020	Co-60	1.91E-04	1.30E-04	4.75E-04	U
AP	07	526420006	9/23/2020	Cr-51	-4.08E-03	6.73E-03	2.17E-02	U
AP	07	526420006	9/23/2020	Cs-134	9.14E-05	1.09E-04	3.60E-04	U
AP	07	526420006	9/23/2020	Cs-137	-1.27E-05	9.08E-05	2.89E-04	U
AP	07	526420006	9/23/2020	Fe-59	-3.91E-04	7.07E-04	2.19E-03	U
AP	07	526420006	9/23/2020	I-131	0.00E+00	2.02E-01	0.00E+00	UI
AP	07	526420006	9/23/2020	K-40	1.66E-03	2.08E-03	3.71E-03	U
AP	07	526420006	9/23/2020	La-140	1.43E-02	1.71E-02	6.15E-02	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/m^3)	STD.DEV. (pCi/m^3)	MDC (pCi/m^3)	FLAGS
AP	07	526420006	9/23/2020	Mn-54	2.80E-05	1.24E-04	4.02E-04	U
AP	07	526420006	9/23/2020	Nb-95	-1.99E-04	3.35E-04	9.90E-04	U
AP	07	526420006	9/23/2020	Ru-103	1.81E-04	3.72E-04	1.27E-03	U
AP	07	526420006	9/23/2020	Ru-106	-4.21E-04	9.28E-04	2.87E-03	U
AP	07	526420006	9/23/2020	Sb-124	5.83E-04	7.92E-04	2.80E-03	U
AP	07	526420006	9/23/2020	Sb-125	-3.36E-04	2.75E-04	8.01E-04	U
AP	07	526420006	9/23/2020	Se-75	3.62E-05	1.59E-04	5.45E-04	U
AP	07	526420006	9/23/2020	Th-228	1.01E-04	2.37E-04	6.22E-04	U
AP	07	526420006	9/23/2020	Zn-65	9.78E-05	2.23E-04	7.87E-04	U
AP	07	526420006	9/23/2020	Zr-95	1.84E-05	3.75E-04	1.21E-03	U
AP	07	523935006	10/7/2020	BETA	3.38E-02	1.27E-03	9.17E-04	
AP	07	525295006	10/21/2020	BETA	2.66E-02	1.10E-03	7.96E-04	
AP	07	527529006	11/6/2020	BETA	2.45E-02	1.02E-03	7.59E-04	
AP	07	528278006	11/18/2020	BETA	4.46E-02	1.58E-03	1.03E-03	
AP	07	529289006	12/2/2020	BETA	2.54E-02	1.15E-03	9.23E-04	
AP	07	530489006	12/16/2020	BETA	2.36E-02	1.11E-03	9.04E-04	
AP	07	531226006	12/30/2020	BETA	2.34E-02	1.12E-03	9.57E-04	
AP	07	533257006	12/30/2020	Ac-228	1.10E-03	6.45E-04	1.54E-03	U
AP	07	533257006	12/30/2020	Ag-108m	3.68E-05	5.91E-05	2.04E-04	U
AP	07	533257006	12/30/2020	Ag-110m	-4.50E-05	1.16E-04	3.49E-04	U
AP	07	533257006	12/30/2020	Ba-140	-6.52E-03	1.54E-02	4.88E-02	U
AP	07	533257006	12/30/2020	Be-7	8.95E-02	6.80E-03	5.03E-03	
AP	07	533257006	12/30/2020	Ce-141	-5.07E-04	3.77E-04	1.05E-03	U
AP	07	533257006	12/30/2020	Ce-144	3.41E-04	3.59E-04	1.19E-03	U
AP	07	533257006	12/30/2020	Co-57	9.19E-05	4.60E-05	1.49E-04	U
AP	07	533257006	12/30/2020	Co-58	-2.27E-05	1.34E-04	4.20E-04	U
AP	07	533257006	12/30/2020	Co-60	9.10E-05	8.71E-05	3.21E-04	U
AP	07	533257006	12/30/2020	Cr-51	6.60E-04	3.19E-03	1.10E-02	U
AP	07	533257006	12/30/2020	Cs-134	-2.12E-06	9.09E-05	2.91E-04	U
AP	07	533257006	12/30/2020	Cs-137	8.16E-05	8.10E-05	2.80E-04	U
AP	07	533257006	12/30/2020	Fe-59	9.78E-05	4.05E-04	1.41E-03	U
AP	07	533257006	12/30/2020	I-131	-3.83E-02	4.96E-02	1.37E-01	U
AP	07	533257006	12/30/2020	K-40	5.15E-04	1.41E-03	3.48E-03	U
AP	07	533257006	12/30/2020	La-140	-4.39E-03	6.04E-03	1.67E-02	U
AP	07	533257006	12/30/2020	Mn-54	8.84E-06	1.02E-04	3.22E-04	U
AP	07	533257006	12/30/2020	Nb-95	2.37E-04	1.72E-04	6.00E-04	U
AP	07	533257006	12/30/2020	Ru-103	-4.47E-05	2.39E-04	7.81E-04	U
AP	07	533257006	12/30/2020	Ru-106	8.74E-04	7.84E-04	2.72E-03	U
AP	07	533257006	12/30/2020	Sb-124	-1.41E-04	3.59E-04	1.06E-03	U
AP	07	533257006	12/30/2020	Sb-125	-2.43E-05	2.03E-04	6.76E-04	U
AP	07	533257006	12/30/2020	Se-75	1.77E-05	1.10E-04	3.83E-04	U
AP	07	533257006	12/30/2020	Th-228	4.28E-05	2.30E-04	3.78E-04	U
AP	07	533257006	12/30/2020	Zn-65	1.66E-06	2.32E-04	7.83E-04	U
AP	07	533257006	12/30/2020	Zr-95	-6.53E-06	2.90E-04	9.34E-04	U
AP	08	501552007	1/15/2020	BETA	2.21E-02	9.84E-04	7.89E-04	
AP	08	502825007	1/29/2020	BETA	2.21E-02	1.04E-03	9.13E-04	
AP	08	504483007	2/12/2020	BETA	2.29E-02	1.08E-03	9.33E-04	

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/m^3)	STD.DEV. (pCi/m^3)	MDC (pCi/m^3)	FLAGS
AP	08	505599007	2/26/2020	BETA	3.48E-02	1.26E-03	8.37E-04	
AP	08	506904007	3/11/2020	BETA	2.35E-02	1.09E-03	9.27E-04	
AP	08	508060006	3/25/2020	BETA	2.30E-02	1.04E-03	8.80E-04	
AP	08	510636006	3/25/2020	Ac-228	-3.83E-04	4.61E-04	1.48E-03	U
AP	08	510636006	3/25/2020	Ag-108m	-1.67E-06	6.86E-05	2.19E-04	U
AP	08	510636006	3/25/2020	Ag-110m	6.40E-05	1.27E-04	4.49E-04	U
AP	08	510636006	3/25/2020	Ba-140	9.22E-02	5.18E-02	1.23E-01	U
AP	08	510636006	3/25/2020	Be-7	1.17E-01	9.73E-03	8.27E-03	
AP	08	510636006	3/25/2020	Ce-141	1.06E-04	8.47E-04	1.84E-03	U
AP	08	510636006	3/25/2020	Ce-144	-9.81E-05	5.01E-04	1.64E-03	U
AP	08	510636006	3/25/2020	Co-57	-3.26E-05	6.85E-05	2.21E-04	U
AP	08	510636006	3/25/2020	Co-58	1.66E-04	1.82E-04	6.38E-04	U
AP	08	510636006	3/25/2020	Co-60	-5.90E-05	1.02E-04	3.02E-04	U
AP	08	510636006	3/25/2020	Cr-51	-2.46E-03	5.56E-03	1.74E-02	U
AP	08	510636006	3/25/2020	Cs-134	-7.87E-05	1.30E-04	3.94E-04	U
AP	08	510636006	3/25/2020	Cs-137	2.67E-05	9.31E-05	3.22E-04	U
AP	08	510636006	3/25/2020	Fe-59	-1.96E-04	7.01E-04	2.25E-03	U
AP	08	510636006	3/25/2020	I-131	-4.62E-02	1.18E-01	0.00E+00	U
AP	08	510636006	3/25/2020	K-40	2.68E-03	2.60E-03	3.57E-03	U
AP	08	510636006	3/25/2020	La-140	-7.19E-03	1.41E-02	4.23E-02	U
AP	08	510636006	3/25/2020	Mn-54	7.70E-05	1.06E-04	3.74E-04	U
AP	08	510636006	3/25/2020	Nb-95	3.87E-04	2.07E-04	7.46E-04	U
AP	08	510636006	3/25/2020	Ru-103	-4.96E-04	3.78E-04	1.00E-03	U
AP	08	510636006	3/25/2020	Ru-106	1.44E-03	1.07E-03	3.76E-03	U
AP	08	510636006	3/25/2020	Sb-124	-1.67E-04	4.64E-04	1.37E-03	U
AP	08	510636006	3/25/2020	Sb-125	-3.22E-04	2.62E-04	7.25E-04	U
AP	08	510636006	3/25/2020	Se-75	2.88E-04	1.74E-04	5.73E-04	U
AP	08	510636006	3/25/2020	Th-228	1.35E-04	2.91E-04	5.90E-04	U
AP	08	510636006	3/25/2020	Zn-65	-9.76E-05	2.65E-04	8.40E-04	U
AP	08	510636006	3/25/2020	Zr-95	3.24E-04	3.74E-04	1.33E-03	U
AP	08	509289007	4/9/2020	BETA	1.08E-02	7.62E-04	9.79E-04	
AP	08	510087007	4/22/2020	BETA	2.61E-02	1.20E-03	9.53E-04	
AP	08	510960007	5/6/2020	BETA	2.10E-02	1.14E-03	1.25E-03	
AP	08	511920007	5/20/2020	BETA	2.07E-02	1.03E-03	9.14E-04	
AP	08	512893007	6/3/2020	BETA	1.78E-02	1.03E-03	1.19E-03	
AP	08	514085007	6/17/2020	BETA	2.57E-02	1.25E-03	1.08E-03	
AP	08	515124007	7/1/2020	BETA	2.85E-02	1.32E-03	1.08E-03	
AP	08	517014007	7/1/2020	Ac-228	6.19E-04	6.99E-04	1.63E-03	U
AP	08	517014007	7/1/2020	Ag-108m	1.98E-05	6.56E-05	2.24E-04	U
AP	08	517014007	7/1/2020	Ag-110m	-1.29E-04	1.39E-04	4.05E-04	U
AP	08	517014007	7/1/2020	Ba-140	3.48E-02	2.28E-02	8.07E-02	U
AP	08	517014007	7/1/2020	Be-7	1.47E-01	1.06E-02	6.57E-03	
AP	08	517014007	7/1/2020	Ce-141	-1.93E-04	5.62E-04	1.68E-03	U
AP	08	517014007	7/1/2020	Ce-144	-6.84E-04	4.47E-04	1.23E-03	U
AP	08	517014007	7/1/2020	Co-57	3.62E-05	5.51E-05	1.86E-04	U
AP	08	517014007	7/1/2020	Co-58	4.03E-04	2.24E-04	7.46E-04	U
AP	08	517014007	7/1/2020	Co-60	-2.71E-05	8.87E-05	2.72E-04	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/m^3)	STD.DEV. (pCi/m^3)	MDC (pCi/m^3)	FLAGS
AP	08	517014007	7/1/2020	Cr-51	3.44E-03	4.63E-03	1.62E-02	U
AP	08	517014007	7/1/2020	Cs-134	8.10E-05	9.32E-05	3.25E-04	U
AP	08	517014007	7/1/2020	Cs-137	4.81E-05	7.68E-05	2.64E-04	U
AP	08	517014007	7/1/2020	Fe-59	4.11E-05	6.39E-04	2.14E-03	U
AP	08	517014007	7/1/2020	I-131	-1.00E-01	8.34E-02	0.00E+00	U
AP	08	517014007	7/1/2020	K-40	2.31E-03	1.69E-03	6.25E-03	U
AP	08	517014007	7/1/2020	La-140	-1.11E-02	1.10E-02	2.76E-02	U
AP	08	517014007	7/1/2020	Mn-54	-8.30E-05	1.03E-04	3.14E-04	U
AP	08	517014007	7/1/2020	Nb-95	2.52E-04	1.90E-04	6.73E-04	U
AP	08	517014007	7/1/2020	Ru-103	-6.09E-05	3.14E-04	9.77E-04	U
AP	08	517014007	7/1/2020	Ru-106	2.36E-03	1.06E-03	3.58E-03	U
AP	08	517014007	7/1/2020	Sb-124	7.22E-05	3.98E-04	1.40E-03	U
AP	08	517014007	7/1/2020	Sb-125	8.34E-06	2.38E-04	7.98E-04	U
AP	08	517014007	7/1/2020	Se-75	2.99E-05	1.53E-04	4.82E-04	U
AP	08	517014007	7/1/2020	Th-228	3.44E-04	2.60E-04	6.01E-04	U
AP	08	517014007	7/1/2020	Zn-65	6.88E-05	3.06E-04	1.04E-03	U
AP	08	517014007	7/1/2020	Zr-95	-2.54E-04	3.13E-04	8.57E-04	U
AP	08	516358007	7/17/2020	BETA	1.67E-02	9.94E-04	1.06E-03	
AP	08	517178007	7/29/2020	BETA	4.14E-02	1.79E-03	1.65E-03	
AP	08	518829007	8/12/2020	BETA	4.69E-02	4.29E-03	6.26E-03	
AP	08	519921007	8/26/2020	BETA	2.93E-02	1.23E-03	9.55E-04	
AP	08	521451007	9/9/2020	BETA	2.37E-02	1.08E-03	8.58E-04	
AP	08	522475007	9/23/2020	BETA	2.17E-02	1.06E-03	9.23E-04	
AP	08	526420007	9/23/2020	Ac-228	7.31E-04	7.86E-04	2.82E-03	U
AP	08	526420007	9/23/2020	Ag-108m	-8.22E-05	1.01E-04	3.11E-04	U
AP	08	526420007	9/23/2020	Ag-110m	1.59E-04	2.53E-04	8.77E-04	U
AP	08	526420007	9/23/2020	Ba-140	-3.20E-02	5.85E-02	1.83E-01	U
AP	08	526420007	9/23/2020	Be-7	1.33E-01	1.18E-02	7.67E-03	
AP	08	526420007	9/23/2020	Ce-141	4.77E-04	8.93E-04	3.02E-03	U
AP	08	526420007	9/23/2020	Ce-144	6.31E-05	6.47E-04	2.01E-03	U
AP	08	526420007	9/23/2020	Co-57	9.57E-05	8.63E-05	2.95E-04	U
AP	08	526420007	9/23/2020	Co-58	-1.07E-04	3.41E-04	1.06E-03	U
AP	08	526420007	9/23/2020	Co-60	-3.28E-06	2.19E-04	7.30E-04	U
AP	08	526420007	9/23/2020	Cr-51	5.06E-03	1.07E-02	3.40E-02	U
AP	08	526420007	9/23/2020	Cs-134	-1.57E-04	1.63E-04	4.21E-04	U
AP	08	526420007	9/23/2020	Cs-137	-6.42E-05	1.60E-04	5.04E-04	U
AP	08	526420007	9/23/2020	Fe-59	-2.26E-04	9.77E-04	3.19E-03	U
AP	08	526420007	9/23/2020	I-131	-2.97E-01	2.86E-01	0.00E+00	U
AP	08	526420007	9/23/2020	K-40	0.00E+00	2.67E-03	3.54E-03	U
AP	08	526420007	9/23/2020	La-140	9.83E-03	3.10E-02	1.07E-01	U
AP	08	526420007	9/23/2020	Mn-54	1.25E-04	2.00E-04	6.87E-04	U
AP	08	526420007	9/23/2020	Nb-95	2.79E-04	3.75E-04	1.31E-03	U
AP	08	526420007	9/23/2020	Ru-103	5.41E-05	6.47E-04	2.19E-03	U
AP	08	526420007	9/23/2020	Ru-106	3.13E-04	1.58E-03	4.82E-03	U
AP	08	526420007	9/23/2020	Sb-124	4.11E-04	1.00E-03	3.55E-03	U
AP	08	526420007	9/23/2020	Sb-125	-3.55E-04	3.25E-04	9.62E-04	U
AP	08	526420007	9/23/2020	Se-75	-6.68E-05	2.40E-04	7.48E-04	U
AP	08	526420007	9/23/2020	Th-228	3.01E-04	3.53E-04	6.67E-04	U
AP	08	526420007	9/23/2020	Zn-65	-5.87E-04	5.12E-04	1.43E-03	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/m^3)	STD.DEV. (pCi/m^3)	MDC (pCi/m^3)	FLAGS
AP	08	526420007	9/23/2020	Zr-95	1.63E-03	7.13E-04	2.59E-03	U
AP	08	523935007	10/7/2020	BETA	3.62E-02	1.36E-03	9.43E-04	
AP	08	525295007	10/21/2020	BETA	2.90E-02	1.21E-03	9.55E-04	
AP	08	527529007	11/6/2020	BETA	2.31E-02	1.01E-03	7.83E-04	
AP	08	528278007	11/18/2020	BETA	4.94E-02	1.73E-03	1.21E-03	
AP	08	529289007	12/2/2020	BETA	2.87E-02	1.22E-03	9.51E-04	
AP	08	530489007	12/16/2020	BETA	2.78E-02	1.18E-03	8.96E-04	
AP	08	531226007	12/30/2020	BETA	2.70E-02	1.21E-03	9.79E-04	
AP	08	533257007	12/30/2020	Ac-228	9.79E-04	4.61E-04	1.57E-03	U
AP	08	533257007	12/30/2020	Ag-108m	-7.28E-05	7.25E-05	2.08E-04	U
AP	08	533257007	12/30/2020	Ag-110m	3.81E-04	2.10E-04	6.11E-04	U
AP	08	533257007	12/30/2020	Ba-140	2.75E-02	1.84E-02	6.27E-02	U
AP	08	533257007	12/30/2020	Be-7	1.00E-01	8.07E-03	5.71E-03	
AP	08	533257007	12/30/2020	Ce-141	0.00E+00	1.52E-03	1.42E-03	U
AP	08	533257007	12/30/2020	Ce-144	-1.48E-04	4.59E-04	1.36E-03	U
AP	08	533257007	12/30/2020	Co-57	1.99E-05	5.90E-05	1.98E-04	U
AP	08	533257007	12/30/2020	Co-58	-1.46E-04	1.49E-04	4.30E-04	U
AP	08	533257007	12/30/2020	Co-60	-1.33E-04	1.01E-04	2.49E-04	U
AP	08	533257007	12/30/2020	Cr-51	-3.10E-03	4.57E-03	1.35E-02	U
AP	08	533257007	12/30/2020	Cs-134	-1.56E-04	1.06E-04	2.85E-04	U
AP	08	533257007	12/30/2020	Cs-137	2.99E-06	8.90E-05	3.02E-04	U
AP	08	533257007	12/30/2020	Fe-59	7.58E-04	5.87E-04	2.12E-03	U
AP	08	533257007	12/30/2020	I-131	8.03E-02	6.77E-02	2.25E-01	U
AP	08	533257007	12/30/2020	K-40	0.00E+00	2.26E-03	3.28E-03	U
AP	08	533257007	12/30/2020	La-140	-1.58E-02	9.31E-03	1.86E-02	U
AP	08	533257007	12/30/2020	Mn-54	7.53E-06	9.23E-05	3.12E-04	U
AP	08	533257007	12/30/2020	Nb-95	-1.96E-04	2.24E-04	5.97E-04	U
AP	08	533257007	12/30/2020	Ru-103	-1.12E-04	2.54E-04	7.71E-04	U
AP	08	533257007	12/30/2020	Ru-106	-2.17E-04	7.39E-04	2.44E-03	U
AP	08	533257007	12/30/2020	Sb-124	-9.21E-04	6.39E-04	1.47E-03	U
AP	08	533257007	12/30/2020	Sb-125	-5.76E-05	2.30E-04	7.22E-04	U
AP	08	533257007	12/30/2020	Se-75	-1.51E-04	1.54E-04	4.37E-04	U
AP	08	533257007	12/30/2020	Th-228	2.88E-04	1.77E-04	5.65E-04	U
AP	08	533257007	12/30/2020	Zn-65	-4.07E-04	2.64E-04	6.57E-04	U
AP	08	533257007	12/30/2020	Zr-95	-1.86E-04	3.00E-04	9.40E-04	U
AP	09	501552008	1/15/2020	BETA	2.29E-02	1.02E-03	8.47E-04	
AP	09	502825008	1/29/2020	BETA	2.73E-02	1.23E-03	1.01E-03	
AP	09	504483008	2/12/2020	BETA	2.37E-02	1.07E-03	9.15E-04	
AP	09	505599008	2/26/2020	BETA	3.72E-02	1.34E-03	8.77E-04	
AP	09	506904008	3/11/2020	BETA	2.96E-02	1.35E-03	1.07E-03	
AP	09	508060007	3/25/2020	BETA	2.35E-02	1.12E-03	9.58E-04	
AP	09	510636007	3/25/2020	Ac-228	1.83E-04	4.17E-04	1.30E-03	U
AP	09	510636007	3/25/2020	Ag-108m	-2.33E-05	6.80E-05	2.25E-04	U
AP	09	510636007	3/25/2020	Ag-110m	-2.56E-04	1.45E-04	3.02E-04	U
AP	09	510636007	3/25/2020	Ba-140	-1.64E-02	2.30E-02	7.04E-02	U
AP	09	510636007	3/25/2020	Be-7	1.18E-01	8.63E-03	5.69E-03	

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/m^3)	STD.DEV. (pCi/m^3)	MDC (pCi/m^3)	FLAGS
AP	09	510636007	3/25/2020	Ce-141	-4.17E-04	5.10E-04	1.56E-03	U
AP	09	510636007	3/25/2020	Ce-144	8.00E-04	4.08E-04	1.33E-03	U
AP	09	510636007	3/25/2020	Co-57	1.18E-05	4.94E-05	1.64E-04	U
AP	09	510636007	3/25/2020	Co-58	-1.69E-04	1.75E-04	4.87E-04	U
AP	09	510636007	3/25/2020	Co-60	1.48E-04	1.18E-04	4.53E-04	U
AP	09	510636007	3/25/2020	Cr-51	2.94E-03	4.83E-03	1.55E-02	U
AP	09	510636007	3/25/2020	Cs-134	-1.32E-05	8.98E-05	2.87E-04	U
AP	09	510636007	3/25/2020	Cs-137	1.66E-04	9.57E-05	3.15E-04	U
AP	09	510636007	3/25/2020	Fe-59	-4.36E-04	6.61E-04	1.88E-03	U
AP	09	510636007	3/25/2020	I-131	0.00E+00	1.07E-01	0.00E+00	UI
AP	09	510636007	3/25/2020	K-40	0.00E+00	1.89E-03	2.49E-03	U
AP	09	510636007	3/25/2020	La-140	3.19E-03	1.02E-02	3.53E-02	U
AP	09	510636007	3/25/2020	Mn-54	-5.37E-05	9.25E-05	2.76E-04	U
AP	09	510636007	3/25/2020	Nb-95	-1.71E-04	2.15E-04	6.36E-04	U
AP	09	510636007	3/25/2020	Ru-103	1.09E-04	2.68E-04	9.27E-04	U
AP	09	510636007	3/25/2020	Ru-106	-8.13E-05	6.77E-04	2.21E-03	U
AP	09	510636007	3/25/2020	Sb-124	3.67E-04	4.58E-04	1.71E-03	U
AP	09	510636007	3/25/2020	Sb-125	-2.20E-04	1.80E-04	5.24E-04	U
AP	09	510636007	3/25/2020	Se-75	5.15E-05	1.30E-04	4.19E-04	U
AP	09	510636007	3/25/2020	Th-228	7.52E-04	2.97E-04	3.58E-04	
AP	09	510636007	3/25/2020	Zn-65	1.98E-04	2.31E-04	8.02E-04	U
AP	09	510636007	3/25/2020	Zr-95	-1.58E-05	3.27E-04	1.06E-03	U
AP	09	509289008	4/9/2020	BETA	1.76E-02	9.50E-04	8.96E-04	
AP	09	510087008	4/22/2020	BETA	2.14E-02	1.17E-03	1.12E-03	
AP	09	510960008	5/6/2020	BETA	1.94E-02	9.99E-04	9.24E-04	
AP	09	511920008	5/20/2020	BETA	1.74E-02	9.97E-04	9.67E-04	
AP	09	512893008	6/3/2020	BETA	1.79E-02	1.04E-03	1.08E-03	
AP	09	514085008	6/17/2020	BETA	2.16E-02	1.14E-03	1.07E-03	
AP	09	515124008	7/1/2020	BETA	2.41E-02	1.19E-03	1.05E-03	
AP	09	517014008	7/1/2020	Ac-228	0.00E+00	6.63E-04	1.58E-03	U
AP	09	517014008	7/1/2020	Ag-108m	4.69E-05	7.12E-05	2.33E-04	U
AP	09	517014008	7/1/2020	Ag-110m	7.48E-05	1.58E-04	4.66E-04	U
AP	09	517014008	7/1/2020	Ba-140	-1.48E-02	2.03E-02	6.45E-02	U
AP	09	517014008	7/1/2020	Be-7	1.53E-01	1.01E-02	5.53E-03	
AP	09	517014008	7/1/2020	Ce-141	1.18E-03	6.05E-04	1.76E-03	U
AP	09	517014008	7/1/2020	Ce-144	6.48E-04	5.17E-04	1.65E-03	U
AP	09	517014008	7/1/2020	Co-57	4.73E-05	6.52E-05	2.10E-04	U
AP	09	517014008	7/1/2020	Co-58	-2.13E-04	1.64E-04	4.45E-04	U
AP	09	517014008	7/1/2020	Co-60	-1.52E-04	9.52E-05	2.31E-04	U
AP	09	517014008	7/1/2020	Cr-51	1.50E-03	4.56E-03	1.51E-02	U
AP	09	517014008	7/1/2020	Cs-134	1.17E-05	9.75E-05	3.21E-04	U
AP	09	517014008	7/1/2020	Cs-137	5.61E-05	8.48E-05	2.90E-04	U
AP	09	517014008	7/1/2020	Fe-59	-4.02E-05	6.63E-04	1.92E-03	U
AP	09	517014008	7/1/2020	I-131	0.00E+00	8.26E-02	0.00E+00	UI
AP	09	517014008	7/1/2020	K-40	1.46E-03	2.08E-03	2.48E-03	U
AP	09	517014008	7/1/2020	La-140	-5.52E-03	9.73E-03	2.93E-02	U
AP	09	517014008	7/1/2020	Mn-54	-1.69E-04	1.27E-04	3.59E-04	U
AP	09	517014008	7/1/2020	Nb-95	-2.91E-04	1.93E-04	5.15E-04	U
AP	09	517014008	7/1/2020	Ru-103	-3.90E-04	2.90E-04	8.60E-04	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/m^3)	STD.DEV. (pCi/m^3)	MDC (pCi/m^3)	FLAGS
AP	09	517014008	7/1/2020	Ru-106	-1.67E-04	8.19E-04	2.70E-03	U
AP	09	517014008	7/1/2020	Sb-124	2.56E-04	5.33E-04	1.80E-03	U
AP	09	517014008	7/1/2020	Sb-125	1.56E-04	2.20E-04	7.25E-04	U
AP	09	517014008	7/1/2020	Se-75	-5.83E-05	1.47E-04	4.78E-04	U
AP	09	517014008	7/1/2020	Th-228	-5.38E-05	1.64E-04	5.66E-04	U
AP	09	517014008	7/1/2020	Zn-65	-1.61E-04	2.55E-04	8.06E-04	U
AP	09	517014008	7/1/2020	Zr-95	1.42E-06	3.67E-04	1.21E-03	U
AP	09	516358008	7/14/2020	BETA	2.05E-02	1.21E-03	1.21E-03	
AP	09	517178008	7/29/2020	BETA	3.38E-02	1.51E-03	1.23E-03	
AP	09	518829008	8/12/2020	BETA	3.30E-02	1.25E-03	8.99E-04	
AP	09	519921008	8/26/2020	BETA	2.67E-02	1.13E-03	8.72E-04	
AP	09	521451008	9/9/2020	BETA	2.21E-02	1.04E-03	9.68E-04	
AP	09	522475008	9/23/2020	BETA	1.69E-02	8.89E-04	8.46E-04	
AP	09	526420008	9/23/2020	Ac-228	-5.60E-04	4.51E-04	1.36E-03	U
AP	09	526420008	9/23/2020	Ag-108m	-7.84E-05	5.82E-05	1.67E-04	U
AP	09	526420008	9/23/2020	Ag-110m	-6.45E-05	1.54E-04	4.47E-04	U
AP	09	526420008	9/23/2020	Ba-140	-3.69E-03	3.01E-02	1.00E-01	U
AP	09	526420008	9/23/2020	Be-7	1.30E-01	9.21E-03	5.11E-03	
AP	09	526420008	9/23/2020	Ce-141	-5.70E-04	6.61E-04	1.76E-03	U
AP	09	526420008	9/23/2020	Ce-144	-3.85E-04	3.93E-04	1.19E-03	U
AP	09	526420008	9/23/2020	Co-57	7.00E-05	5.35E-05	1.82E-04	U
AP	09	526420008	9/23/2020	Co-58	8.64E-05	1.70E-04	5.39E-04	U
AP	09	526420008	9/23/2020	Co-60	6.67E-05	1.17E-04	4.17E-04	U
AP	09	526420008	9/23/2020	Cr-51	-6.57E-03	5.91E-03	1.46E-02	U
AP	09	526420008	9/23/2020	Cs-134	1.63E-04	1.22E-04	3.32E-04	U
AP	09	526420008	9/23/2020	Cs-137	-3.23E-05	8.35E-05	2.66E-04	U
AP	09	526420008	9/23/2020	Fe-59	1.00E-03	7.48E-04	2.66E-03	U
AP	09	526420008	9/23/2020	I-131	0.00E+00	1.57E-01	0.00E+00	UI
AP	09	526420008	9/23/2020	K-40	9.02E-04	1.38E-03	5.05E-03	U
AP	09	526420008	9/23/2020	La-140	-1.36E-02	1.27E-02	3.13E-02	U
AP	09	526420008	9/23/2020	Mn-54	1.96E-04	7.61E-05	2.69E-04	U
AP	09	526420008	9/23/2020	Nb-95	3.31E-04	2.18E-04	7.72E-04	U
AP	09	526420008	9/23/2020	Ru-103	2.79E-04	2.92E-04	1.04E-03	U
AP	09	526420008	9/23/2020	Ru-106	-8.78E-04	9.00E-04	2.65E-03	U
AP	09	526420008	9/23/2020	Sb-124	2.83E-04	6.80E-04	2.38E-03	U
AP	09	526420008	9/23/2020	Sb-125	-1.20E-05	1.84E-04	6.25E-04	U
AP	09	526420008	9/23/2020	Se-75	1.10E-04	1.43E-04	4.72E-04	U
AP	09	526420008	9/23/2020	Th-228	3.51E-04	1.81E-04	5.16E-04	U
AP	09	526420008	9/23/2020	Zn-65	2.55E-04	2.31E-04	8.25E-04	U
AP	09	526420008	9/23/2020	Zr-95	1.55E-04	3.85E-04	1.31E-03	U
AP	09	523935008	10/7/2020	BETA	3.17E-02	1.17E-03	7.74E-04	
AP	09	525295008	10/21/2020	BETA	2.12E-02	9.77E-04	7.85E-04	

Seabrook REMP Summary of 2020 Data

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/m^3)	STD.DEV. (pCi/m^3)	MDC (pCi/m^3)	FLAGS
AP	09	527529008	11/6/2020	BETA	2.02E-02	8.57E-04	6.27E-04	
AP	09	528278008	11/18/2020	BETA	4.86E-02	1.59E-03	9.76E-04	
AP	09	529289008	12/2/2020	BETA	1.27E-02	7.44E-04	7.47E-04	
AP	09	530489008	12/16/2020	BETA	2.51E-02	1.04E-03	7.76E-04	
AP	09	531226008	12/30/2020	BETA	2.46E-02	9.89E-04	7.54E-04	
AP	09	533257008	12/30/2020	Ac-228	3.49E-04	3.33E-04	5.64E-04	U
AP	09	533257008	12/30/2020	Ag-108m	0.00E+00	7.58E-05	1.57E-04	U
AP	09	533257008	12/30/2020	Ag-110m	1.71E-04	1.11E-04	4.01E-04	U
AP	09	533257008	12/30/2020	Ba-140	1.54E-02	1.32E-02	4.27E-02	U
AP	09	533257008	12/30/2020	Be-7	8.60E-02	6.25E-03	4.59E-03	
AP	09	533257008	12/30/2020	Ce-141	1.47E-04	7.20E-04	1.16E-03	U
AP	09	533257008	12/30/2020	Ce-144	1.76E-04	3.02E-04	1.00E-03	U
AP	09	533257008	12/30/2020	Co-57	-1.18E-05	4.41E-05	1.31E-04	U
AP	09	533257008	12/30/2020	Co-58	1.21E-05	1.19E-04	3.81E-04	U
AP	09	533257008	12/30/2020	Co-60	3.54E-05	8.07E-05	2.77E-04	U
AP	09	533257008	12/30/2020	Cr-51	6.04E-04	2.94E-03	1.01E-02	U
AP	09	533257008	12/30/2020	Cs-134	-6.87E-05	8.13E-05	2.21E-04	U
AP	09	533257008	12/30/2020	Cs-137	2.76E-05	5.81E-05	1.95E-04	U
AP	09	533257008	12/30/2020	Fe-59	6.32E-05	3.31E-04	1.09E-03	U
AP	09	533257008	12/30/2020	I-131	1.20E-02	4.13E-02	1.41E-01	U
AP	09	533257008	12/30/2020	K-40	3.59E-04	9.83E-04	1.63E-03	U
AP	09	533257008	12/30/2020	La-140	4.92E-04	5.47E-03	1.68E-02	U
AP	09	533257008	12/30/2020	Mn-54	-1.89E-06	5.09E-05	1.72E-04	U
AP	09	533257008	12/30/2020	Nb-95	2.90E-05	1.34E-04	4.35E-04	U
AP	09	533257008	12/30/2020	Ru-103	-2.47E-04	2.08E-04	5.93E-04	U
AP	09	533257008	12/30/2020	Ru-106	-2.60E-04	5.48E-04	1.68E-03	U
AP	09	533257008	12/30/2020	Sb-124	5.50E-04	4.56E-04	1.69E-03	U
AP	09	533257008	12/30/2020	Sb-125	1.74E-04	1.75E-04	6.03E-04	U
AP	09	533257008	12/30/2020	Se-75	-1.22E-04	1.07E-04	3.33E-04	U
AP	09	533257008	12/30/2020	Th-228	2.92E-04	1.85E-04	4.36E-04	U
AP	09	533257008	12/30/2020	Zn-65	-3.19E-04	1.61E-04	3.00E-04	U
AP	09	533257008	12/30/2020	Zr-95	-1.08E-04	2.27E-04	6.78E-04	U

Seabrook REMP Summary of 2020 Data

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/m^3)	STD.DEV. (pCi/m^3)	MDC (pCi/m^3)	FLAGS
CF	01	501552009	1/15/2020	I-131	2.54E-03	2.28E-03	7.91E-03	U
CF	01	502825009	1/29/2020	I-131	3.84E-03	1.93E-03	5.11E-03	U
CF	01	504483009	2/12/2020	I-131	-9.72E-05	2.36E-03	7.94E-03	U
CF	01	505599009	2/26/2020	I-131	-1.15E-03	1.95E-03	6.21E-03	U
CF	01	506904009	3/11/2020	I-131	-6.30E-04	1.35E-03	4.29E-03	U
CF	01	508060008	3/25/2020	I-131	1.96E-03	1.72E-03	5.94E-03	U
CF	01	509289009	4/9/2020	I-131	3.65E-04	1.80E-03	6.02E-03	U
CF	01	510087009	4/22/2020	I-131	1.53E-03	1.74E-03	6.11E-03	U
CF	01	510960009	5/6/2020	I-131	2.40E-04	1.60E-03	5.25E-03	U
CF	01	511920009	5/20/2020	I-131	0.00E+00	2.32E-03	4.28E-03	U
CF	01	512893009	6/3/2020	I-131	1.05E-03	1.37E-03	4.88E-03	U
CF	01	514085009	6/17/2020	I-131	-2.48E-03	3.02E-03	9.25E-03	U
CF	01	515124009	7/1/2020	I-131	-1.52E-03	4.20E-03	1.39E-02	U
CF	01	516358009	7/17/2020	I-131	-7.26E-03	4.17E-03	1.04E-02	U
CF	01	517178009	7/29/2020	I-131	-2.02E-04	1.16E-02	3.83E-02	U
CF	01	518829009	8/12/2020	I-131	2.03E-02	1.63E-02	5.88E-02	U
CF	01	519921009	8/26/2020	I-131	-6.42E-04	1.95E-03	6.26E-03	U
CF	01	521451009	9/9/2020	I-131	1.98E-03	3.72E-03	1.31E-02	U
CF	01	522475009	9/23/2020	I-131	1.89E-03	1.43E-03	4.90E-03	U
CF	01	523935009	10/7/2020	I-131	-9.23E-04	1.59E-03	5.01E-03	U
CF	01	525295009	10/21/2020	I-131	-1.50E-03	1.56E-03	4.54E-03	U
CF	01	527529009	11/6/2020	I-131	3.46E-03	3.32E-03	1.18E-02	U
CF	01	528278009	11/18/2020	I-131	-2.21E-03	2.14E-03	6.04E-03	U
CF	01	529289009	12/2/2020	I-131	-1.12E-03	2.14E-03	6.82E-03	U
CF	01	530489009	12/16/2020	I-131	3.81E-04	1.29E-03	4.40E-03	U
CF	01	531226009	12/30/2020	I-131	-2.32E-03	2.30E-03	6.00E-03	U
CF	02	501552010	1/15/2020	I-131	-8.11E-04	1.50E-03	4.71E-03	U
CF	02	502825010	1/29/2020	I-131	-3.68E-03	1.65E-03	3.17E-03	U
CF	02	504483010	2/12/2020	I-131	-1.13E-03	2.35E-03	6.60E-03	U
CF	02	505599010	2/26/2020	I-131	-1.12E-03	2.54E-03	8.15E-03	U
CF	02	506904010	3/11/2020	I-131	1.73E-03	2.58E-03	8.80E-03	U
CF	02	508060009	3/25/2020	I-131	1.06E-03	2.69E-03	9.01E-03	U
CF	02	509289010	4/9/2020	I-131	-6.85E-04	1.30E-03	3.87E-03	U
CF	02	510087010	4/22/2020	I-131	-1.99E-03	1.38E-03	3.76E-03	U
CF	02	510960010	5/6/2020	I-131	1.05E-03	1.29E-03	4.58E-03	U
CF	02	511920010	5/20/2020	I-131	-2.70E-03	2.38E-03	6.92E-03	U
CF	02	512893010	6/3/2020	I-131	-3.41E-04	1.54E-03	5.07E-03	U
CF	02	514085010	6/17/2020	I-131	1.08E-03	1.32E-03	4.71E-03	U
CF	02	515124010	7/1/2020	I-131	1.03E-02	4.43E-03	1.26E-02	U
CF	02	516358010	7/17/2020	I-131	-2.55E-04	2.67E-03	8.60E-03	U
CF	02	517178010	7/29/2020	I-131	-1.00E-03	3.75E-03	1.11E-02	U
CF	02	518829010	8/12/2020	I-131	7.96E-04	1.79E-03	6.00E-03	U
CF	02	519921010	8/26/2020	I-131	1.28E-03	1.67E-03	5.74E-03	U
CF	02	521451010	9/9/2020	I-131	9.21E-03	4.76E-03	1.68E-02	U
CF	02	522475010	9/23/2020	I-131	-1.04E-03	1.56E-03	4.92E-03	U
CF	02	523935010	10/7/2020	I-131	0.00E+00	2.95E-03	5.25E-03	U
CF	02	525295010	10/21/2020	I-131	1.53E-03	2.16E-03	7.47E-03	U
CF	02	527529010	11/6/2020	I-131	-2.01E-03	4.28E-03	1.36E-02	U
CF	02	528278010	11/18/2020	I-131	2.32E-03	2.45E-03	8.81E-03	U
CF	02	529289010	12/2/2020	I-131	-7.58E-04	2.89E-03	8.28E-03	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/m^3)	STD.DEV. (pCi/m^3)	MDC (pCi/m^3)	FLAGS
CF	02	530489010	12/16/2020	I-131	-1.08E-03	1.73E-03	5.38E-03	U
CF	02	531226010	12/30/2020	I-131	-1.86E-03	2.11E-03	6.17E-03	U
CF	03	501552011	1/15/2020	I-131	3.82E-03	1.67E-03	6.39E-03	U
CF	03	502825011	1/29/2020	I-131	-2.24E-03	1.77E-03	4.97E-03	U
CF	03	504483011	2/12/2020	I-131	2.26E-03	2.42E-03	8.62E-03	U
CF	03	505599011	2/26/2020	I-131	2.61E-05	3.60E-03	1.18E-02	U
CF	03	506904011	3/11/2020	I-131	2.33E-03	1.75E-03	6.18E-03	U
CF	03	508060010	3/25/2020	I-131	-1.86E-03	2.19E-03	6.32E-03	U
CF	03	509289011	4/9/2020	I-131	-1.93E-03	1.87E-03	5.52E-03	U
CF	03	510087011	4/22/2020	I-131	1.38E-03	2.21E-03	7.54E-03	U
CF	03	510960011	5/6/2020	I-131	1.47E-04	1.46E-03	4.84E-03	U
CF	03	511920011	5/20/2020	I-131	-1.05E-03	2.48E-03	8.19E-03	U
CF	03	512893011	6/3/2020	I-131	4.90E-04	1.41E-03	4.75E-03	U
CF	03	514085011	6/17/2020	I-131	1.19E-03	2.00E-03	6.94E-03	U
CF	03	515124011	7/1/2020	I-131	-5.72E-04	2.45E-03	8.05E-03	U
CF	03	516358011	7/17/2020	I-131	5.23E-04	2.47E-03	8.53E-03	U
CF	03	517178011	7/29/2020	I-131	7.53E-03	4.23E-03	7.89E-03	U
CF	03	518829011	8/12/2020	I-131	-9.61E-05	2.50E-03	8.46E-03	U
CF	03	519921011	8/26/2020	I-131	-4.40E-04	1.57E-03	5.15E-03	U
CF	03	521451011	9/9/2020	I-131	-5.02E-04	4.93E-03	1.16E-02	U
CF	03	522475011	9/23/2020	I-131	0.00E+00	2.37E-03	5.72E-03	U
CF	03	523935011	10/7/2020	I-131	2.39E-05	1.69E-03	5.37E-03	U
CF	03	525295011	10/21/2020	I-131	-1.69E-03	1.81E-03	5.48E-03	U
CF	03	527529011	11/6/2020	I-131	3.26E-03	4.16E-03	1.47E-02	U
CF	03	528278011	11/18/2020	I-131	4.59E-03	2.68E-03	9.48E-03	U
CF	03	529289011	12/2/2020	I-131	-1.59E-03	2.83E-03	9.15E-03	U
CF	03	530489011	12/16/2020	I-131	-8.88E-04	1.66E-03	5.36E-03	U
CF	03	531226011	12/30/2020	I-131	-3.58E-03	2.43E-03	6.27E-03	U
CF	04	501552012	1/15/2020	I-131	-3.57E-05	1.47E-03	4.89E-03	U
CF	04	502825012	1/29/2020	I-131	-3.10E-03	2.10E-03	5.65E-03	U
CF	04	504483012	2/12/2020	I-131	1.84E-04	2.10E-03	6.59E-03	U
CF	04	505599012	2/26/2020	I-131	-2.70E-03	2.92E-03	8.61E-03	U
CF	04	506904012	3/11/2020	I-131	-1.23E-03	1.17E-03	3.32E-03	U
CF	04	508060011	3/25/2020	I-131	-2.30E-03	2.02E-03	5.82E-03	U
CF	04	509289012	4/9/2020	I-131	6.06E-05	1.43E-03	4.85E-03	U
CF	04	510087012	4/22/2020	I-131	-7.12E-04	1.37E-03	4.26E-03	U
CF	04	510960012	5/6/2020	I-131	0.00E+00	9.40E-04	2.71E-03	U
CF	04	511920012	5/20/2020	I-131	-3.99E-05	1.80E-03	6.07E-03	U
CF	04	512893012	6/3/2020	I-131	-6.42E-04	1.67E-03	5.52E-03	U
CF	04	514085012	6/17/2020	I-131	-7.54E-04	1.44E-03	4.00E-03	U
CF	04	515124012	7/1/2020	I-131	-2.53E-03	2.52E-03	7.43E-03	U
CF	04	516358012	7/17/2020	I-131	-2.54E-03	2.16E-03	6.08E-03	U
CF	04	517178012	7/29/2020	I-131	3.79E-03	2.97E-03	1.01E-02	U
CF	04	518829012	8/12/2020	I-131	-2.37E-03	2.15E-03	5.14E-03	U
CF	04	519921012	8/26/2020	I-131	-1.75E-03	1.51E-03	4.26E-03	U
CF	04	521451012	9/9/2020	I-131	-3.06E-03	4.89E-03	1.56E-02	U
CF	04	522475012	9/23/2020	I-131	1.88E-03	1.45E-03	5.09E-03	U
CF	04	523935012	10/7/2020	I-131	-2.70E-03	1.95E-03	4.12E-03	U
CF	04	525295012	10/21/2020	I-131	-1.25E-03	1.94E-03	6.12E-03	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/m^3)	STD.DEV. (pCi/m^3)	MDC (pCi/m^3)	FLAGS
CF	04	527529012	11/6/2020	I-131	-8.11E-04	6.18E-03	2.07E-02	U
CF	04	528278012	11/18/2020	I-131	-1.06E-03	2.82E-03	9.31E-03	U
CF	04	529289012	12/2/2020	I-131	-3.46E-04	2.03E-03	6.60E-03	U
CF	04	530489012	12/16/2020	I-131	-4.21E-04	1.28E-03	4.15E-03	U
CF	04	531226012	12/30/2020	I-131	-2.14E-03	2.02E-03	5.79E-03	U
CF	05	501552013	1/15/2020	I-131	2.40E-03	1.62E-03	5.87E-03	U
CF	05	502825013	1/29/2020	I-131	1.04E-03	1.32E-03	4.48E-03	U
CF	05	504483013	2/12/2020	I-131	2.82E-03	2.69E-03	9.34E-03	U
CF	05	505599013	2/26/2020	I-131	2.07E-03	3.09E-03	1.06E-02	U
CF	05	506904013	3/11/2020	I-131	-1.50E-03	1.84E-03	5.59E-03	U
CF	05	508060016	3/30/2020	I-131	1.54E-03	2.18E-03	7.48E-03	U
CF	05	509289013	4/9/2020	I-131	2.87E-03	3.64E-03	1.29E-02	U
CF	05	510087013	4/22/2020	I-131	-2.21E-04	1.75E-03	5.88E-03	U
CF	05	510960013	5/6/2020	I-131	5.36E-04	1.74E-03	6.00E-03	U
CF	05	511920013	5/20/2020	I-131	-7.86E-04	2.02E-03	6.42E-03	U
CF	05	512893013	6/3/2020	I-131	0.00E+00	3.42E-03	4.31E-03	U
CF	05	514085013	6/17/2020	I-131	5.04E-04	1.61E-03	5.43E-03	U
CF	05	515124013	7/1/2020	I-131	-2.25E-03	2.84E-03	8.77E-03	U
CF	05	516358013	7/17/2020	I-131	2.03E-03	2.12E-03	7.59E-03	U
CF	05	517178013	7/29/2020	I-131	3.55E-03	3.27E-03	1.13E-02	U
CF	05	518829013	8/12/2020	I-131	2.89E-03	3.52E-03	1.27E-02	U
CF	05	519921013	8/26/2020	I-131	8.29E-04	1.31E-03	4.62E-03	U
CF	05	521451013	9/9/2020	I-131	-1.86E-03	4.10E-03	1.25E-02	U
CF	05	522475013	9/23/2020	I-131	3.16E-05	1.50E-03	4.86E-03	U
CF	05	523935013	10/7/2020	I-131	-7.91E-04	1.95E-03	6.03E-03	U
CF	05	525295013	10/21/2020	I-131	-1.03E-03	1.57E-03	4.99E-03	U
CF	05	527529013	11/6/2020	I-131	-2.34E-03	3.85E-03	1.17E-02	U
CF	05	528278013	11/18/2020	I-131	4.25E-03	2.46E-03	8.99E-03	U
CF	05	529289013	12/2/2020	I-131	3.15E-03	2.39E-03	8.53E-03	U
CF	05	530489013	12/16/2020	I-131	-1.62E-03	1.49E-03	4.29E-03	U
CF	05	531226013	12/30/2020	I-131	-3.91E-03	2.32E-03	5.84E-03	U
CF	07	501552014	1/15/2020	I-131	-1.80E-03	1.17E-03	3.11E-03	U
CF	07	502825014	1/29/2020	I-131	1.68E-03	1.30E-03	4.74E-03	U
CF	07	504483014	2/12/2020	I-131	7.60E-04	1.37E-03	4.92E-03	U
CF	07	505599014	2/26/2020	I-131	-4.19E-04	1.57E-03	5.16E-03	U
CF	07	506904014	3/11/2020	I-131	4.08E-04	1.12E-03	3.92E-03	U
CF	07	508060012	3/25/2020	I-131	-4.71E-04	1.51E-03	4.80E-03	U
CF	07	509289014	4/9/2020	I-131	-3.10E-03	1.85E-03	4.86E-03	U
CF	07	510087014	4/22/2020	I-131	4.39E-04	1.51E-03	5.25E-03	U
CF	07	510960014	5/6/2020	I-131	2.73E-03	1.95E-03	6.94E-03	U
CF	07	511920014	5/20/2020	I-131	-2.02E-03	1.77E-03	5.02E-03	U
CF	07	512893014	6/3/2020	I-131	-4.95E-04	1.59E-03	5.11E-03	U
CF	07	514085014	6/17/2020	I-131	-5.35E-04	1.55E-03	5.08E-03	U
CF	07	515124014	7/1/2020	I-131	3.71E-03	2.55E-03	9.14E-03	U
CF	07	516358014	7/17/2020	I-131	-1.56E-03	2.39E-03	6.92E-03	U
CF	07	517178014	7/29/2020	I-131	-1.61E-03	3.84E-03	1.27E-02	U
CF	07	518829014	8/12/2020	I-131	8.79E-04	1.89E-03	6.64E-03	U
CF	07	519921014	8/26/2020	I-131	4.56E-04	1.46E-03	4.82E-03	U
CF	07	521451014	9/9/2020	I-131	-8.00E-04	2.66E-03	8.77E-03	U
CF	07	522475014	9/23/2020	I-131	-3.46E-04	1.69E-03	5.62E-03	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/m^3)	STD.DEV. (pCi/m^3)	MDC (pCi/m^3)	FLAGS
CF	07	523935014	10/7/2020	I-131	0.00E+00	1.41E-03	4.53E-03	U
CF	07	525295014	10/21/2020	I-131	8.72E-04	1.43E-03	5.03E-03	U
CF	07	527529014	11/6/2020	I-131	-2.00E-03	3.00E-03	9.17E-03	U
CF	07	528278014	11/18/2020	I-131	3.72E-03	2.42E-03	8.55E-03	U
CF	07	529289014	12/2/2020	I-131	-3.25E-03	2.22E-03	5.37E-03	U
CF	07	530489014	12/16/2020	I-131	-1.08E-03	1.29E-03	3.91E-03	U
CF	07	531226014	12/30/2020	I-131	-1.20E-03	2.18E-03	7.00E-03	U
CF	08	501552015	1/15/2020	I-131	0.00E+00	1.48E-03	3.45E-03	U
CF	08	502825015	1/29/2020	I-131	-1.07E-03	1.45E-03	4.47E-03	U
CF	08	504483015	2/12/2020	I-131	-4.16E-04	2.00E-03	6.59E-03	U
CF	08	505599015	2/26/2020	I-131	3.80E-03	2.87E-03	9.92E-03	U
CF	08	506904015	3/11/2020	I-131	-4.80E-04	1.48E-03	4.91E-03	U
CF	08	508060013	3/25/2020	I-131	-1.64E-03	2.59E-03	7.75E-03	U
CF	08	509289015	4/9/2020	I-131	3.77E-05	1.47E-03	5.01E-03	U
CF	08	510087015	4/22/2020	I-131	1.74E-03	1.70E-03	5.93E-03	U
CF	08	510960015	5/6/2020	I-131	3.01E-04	1.43E-03	4.87E-03	U
CF	08	511920015	5/20/2020	I-131	-1.43E-03	2.31E-03	7.43E-03	U
CF	08	512893015	6/3/2020	I-131	-2.13E-04	1.43E-03	4.81E-03	U
CF	08	514085015	6/17/2020	I-131	-1.43E-03	2.95E-03	9.43E-03	U
CF	08	515124015	7/1/2020	I-131	3.24E-03	2.94E-03	1.04E-02	U
CF	08	516358015	7/17/2020	I-131	-2.41E-05	2.02E-03	6.77E-03	U
CF	08	517178015	7/29/2020	I-131	2.64E-03	2.82E-03	1.00E-02	U
CF	08	518829015	8/12/2020	I-131	8.63E-04	1.24E-02	4.21E-02	U
CF	08	519921015	8/26/2020	I-131	2.37E-04	1.24E-03	4.20E-03	U
CF	08	521451015	9/9/2020	I-131	4.68E-04	3.22E-03	1.08E-02	U
CF	08	522475015	9/23/2020	I-131	2.81E-03	1.58E-03	5.64E-03	U
CF	08	523935015	10/7/2020	I-131	1.17E-04	1.48E-03	5.02E-03	U
CF	08	525295015	10/21/2020	I-131	-3.14E-04	2.14E-03	6.53E-03	U
CF	08	527529015	11/6/2020	I-131	1.60E-03	3.51E-03	1.23E-02	U
CF	08	528278015	11/18/2020	I-131	3.12E-05	2.56E-03	8.25E-03	U
CF	08	529289015	12/2/2020	I-131	-7.27E-04	1.91E-03	6.25E-03	U
CF	08	530489015	12/16/2020	I-131	2.51E-03	1.47E-03	5.28E-03	U
CF	08	531226015	12/30/2020	I-131	5.08E-04	2.00E-03	6.95E-03	U
CF	09	501552016	1/15/2020	I-131	-1.28E-03	1.57E-03	4.85E-03	U
CF	09	502825016	1/29/2020	I-131	-2.08E-04	1.36E-03	4.55E-03	U
CF	09	504483016	2/12/2020	I-131	0.00E+00	3.13E-03	4.99E-03	U
CF	09	505599016	2/26/2020	I-131	4.33E-03	2.65E-03	9.54E-03	U
CF	09	506904016	3/11/2020	I-131	2.18E-05	1.35E-03	4.60E-03	U
CF	09	508060014	3/25/2020	I-131	-8.03E-04	2.07E-03	6.74E-03	U
CF	09	509289016	4/9/2020	I-131	-4.48E-04	1.92E-03	6.03E-03	U
CF	09	510087016	4/22/2020	I-131	-1.07E-03	1.71E-03	5.40E-03	U
CF	09	510960016	5/6/2020	I-131	2.29E-03	1.75E-03	6.04E-03	U
CF	09	511920016	5/20/2020	I-131	-9.87E-04	1.76E-03	5.62E-03	U
CF	09	512893016	6/3/2020	I-131	1.39E-04	1.70E-03	5.81E-03	U
CF	09	514085016	6/17/2020	I-131	1.71E-03	1.99E-03	7.05E-03	U
CF	09	515124016	7/1/2020	I-131	4.17E-03	2.51E-03	9.01E-03	U
CF	09	516358016	7/14/2020	I-131	-2.16E-03	4.01E-03	1.28E-02	U
CF	09	517178016	7/29/2020	I-131	-4.64E-03	2.91E-03	7.33E-03	U
CF	09	518829016	8/12/2020	I-131	-1.71E-03	1.96E-03	5.74E-03	U

Seabrook REMP Summary of 2020 Data

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/m^3)	STD.DEV. (pCi/m^3)	MDC (pCi/m^3)	FLAGS
CF	09	519921016	8/26/2020	I-131	-1.34E-03	1.65E-03	4.97E-03	U
CF	09	521451016	9/9/2020	I-131	-3.35E-03	3.69E-03	1.14E-02	U
CF	09	522475016	9/23/2020	I-131	2.29E-03	2.33E-03	3.48E-03	U
CF	09	523935016	10/7/2020	I-131	1.94E-04	1.39E-03	4.54E-03	U
CF	09	525295016	10/21/2020	I-131	2.72E-03	1.25E-03	4.46E-03	U
CF	09	527529016	11/6/2020	I-131	2.09E-03	5.31E-03	1.84E-02	U
CF	09	528278016	11/18/2020	I-131	-3.49E-04	2.19E-03	6.48E-03	U
CF	09	529289016	12/2/2020	I-131	-2.33E-04	2.35E-03	7.81E-03	U
CF	09	530489016	12/16/2020	I-131	9.63E-04	9.41E-04	3.43E-03	U
CF	09	531226016	12/30/2020	I-131	-6.11E-04	2.72E-03	9.15E-03	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
FH	03	518929001	8/10/2020	Ac-228	-8.38E+00	1.21E+01	3.61E+01	U
FH	03	518929001	8/10/2020	Ag-108m	-7.67E-03	1.68E+00	5.56E+00	U
FH	03	518929001	8/10/2020	Ag-110m	-4.54E-01	3.45E+00	1.10E+01	U
FH	03	518929001	8/10/2020	Ba-140	6.36E+00	1.25E+01	4.23E+01	U
FH	03	518929001	8/10/2020	Be-7	-9.94E+00	2.05E+01	6.48E+01	U
FH	03	518929001	8/10/2020	Bi-214	-4.25E-01	6.37E+00	1.64E+01	U
FH	03	518929001	8/10/2020	Ce-141	-2.44E+00	4.00E+00	1.31E+01	U
FH	03	518929001	8/10/2020	Ce-144	-1.90E+00	1.29E+01	4.36E+01	U
FH	03	518929001	8/10/2020	Co-57	-2.19E+00	1.80E+00	5.57E+00	U
FH	03	518929001	8/10/2020	Co-58	-9.21E-01	2.82E+00	8.85E+00	U
FH	03	518929001	8/10/2020	Co-60	6.38E+00	3.73E+00	1.28E+01	U
FH	03	518929001	8/10/2020	Cr-51	1.21E+01	2.13E+01	7.24E+01	U
FH	03	518929001	8/10/2020	Cs-134	-2.67E+00	3.25E+00	9.64E+00	U
FH	03	518929001	8/10/2020	Cs-137	-1.68E-01	2.49E+00	8.06E+00	U
FH	03	518929001	8/10/2020	Fe-59	-3.95E+00	6.35E+00	1.89E+01	U
FH	03	518929001	8/10/2020	I-131	-2.60E+00	5.26E+00	1.69E+01	U
FH	03	518929001	8/10/2020	K-40	3.47E+03	2.32E+02	4.75E+01	
FH	03	518929001	8/10/2020	La-140	-7.47E-01	3.17E+00	1.02E+01	U
FH	03	518929001	8/10/2020	Mn-54	-5.93E-02	2.37E+00	7.65E+00	U
FH	03	518929001	8/10/2020	Nb-95	-1.02E+00	2.80E+00	8.80E+00	U
FH	03	518929001	8/10/2020	Pb-212	-2.51E+00	5.01E+00	1.54E+01	U
FH	03	518929001	8/10/2020	Pb-214	-1.03E+01	6.38E+00	1.68E+01	U
FH	03	518929001	8/10/2020	Ra-226	-4.25E-01	6.37E+00	1.64E+01	U
FH	03	518929001	8/10/2020	Ru-103	-1.34E+00	2.21E+00	6.84E+00	U
FH	03	518929001	8/10/2020	Ru-106	-1.10E+01	2.09E+01	6.48E+01	U
FH	03	518929001	8/10/2020	Sb-124	-3.05E+00	5.15E+00	1.55E+01	U
FH	03	518929001	8/10/2020	Sb-125	4.93E+00	5.01E+00	1.74E+01	U
FH	03	518929001	8/10/2020	Se-75	3.29E+00	2.75E+00	9.41E+00	U
FH	03	518929001	8/10/2020	Th-228	-2.51E+00	5.01E+00	1.54E+01	U
FH	03	518929001	8/10/2020	Th-230	-4.25E-01	6.37E+00	1.64E+01	U
FH	03	518929001	8/10/2020	Tl-208	5.08E-01	3.99E+00	7.18E+00	U
FH	03	518929001	8/10/2020	Zn-65	3.94E+00	7.20E+00	2.17E+01	U
FH	03	518929001	8/10/2020	Zr-95	-7.15E+00	4.69E+00	1.19E+01	U
FH	03	518929003	8/10/2020	Ac-228	-1.15E+01	9.12E+00	2.82E+01	U
FH	03	518929003	8/10/2020	Ag-108m	1.24E+00	1.51E+00	5.04E+00	U
FH	03	518929003	8/10/2020	Ag-110m	-5.64E+00	3.40E+00	8.97E+00	U
FH	03	518929003	8/10/2020	Ba-140	1.83E+01	1.23E+01	4.04E+01	U
FH	03	518929003	8/10/2020	Be-7	-5.25E-01	1.77E+01	5.64E+01	U
FH	03	518929003	8/10/2020	Bi-214	4.66E+00	7.67E+00	1.31E+01	U
FH	03	518929003	8/10/2020	Ce-141	7.52E-01	5.99E+00	9.96E+00	U
FH	03	518929003	8/10/2020	Ce-144	4.07E+00	1.04E+01	3.58E+01	U
FH	03	518929003	8/10/2020	Co-57	-1.11E+00	1.37E+00	4.45E+00	U
FH	03	518929003	8/10/2020	Co-58	7.15E-01	2.23E+00	7.56E+00	U
FH	03	518929003	8/10/2020	Co-60	1.30E+00	1.95E+00	6.69E+00	U
FH	03	518929003	8/10/2020	Cr-51	-6.46E+00	1.66E+01	5.29E+01	U
FH	03	518929003	8/10/2020	Cs-134	-2.06E+00	2.40E+00	7.35E+00	U
FH	03	518929003	8/10/2020	Cs-137	-2.33E+00	2.20E+00	6.67E+00	U
FH	03	518929003	8/10/2020	Fe-59	2.29E+00	6.11E+00	2.03E+01	U
FH	03	518929003	8/10/2020	I-131	1.70E+00	3.92E+00	1.30E+01	U

Seabrook REMP Summary of 2020 Data

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
FH	03	518929003	8/10/2020	K-40	2.73E+03	1.73E+02	5.18E+01	
FH	03	518929003	8/10/2020	La-140	-5.46E+00	3.33E+00	7.44E+00	U
FH	03	518929003	8/10/2020	Mn-54	5.36E+00	2.71E+00	7.75E+00	U
FH	03	518929003	8/10/2020	Nb-95	-4.51E+00	2.46E+00	6.35E+00	U
FH	03	518929003	8/10/2020	Pb-212	-3.51E+00	3.81E+00	1.13E+01	U
FH	03	518929003	8/10/2020	Pb-214	-8.41E-01	4.75E+00	1.34E+01	U
FH	03	518929003	8/10/2020	Ra-226	4.66E+00	7.67E+00	1.31E+01	U
FH	03	518929003	8/10/2020	Ru-103	1.79E+00	2.35E+00	7.02E+00	U
FH	03	518929003	8/10/2020	Ru-106	6.56E+00	2.01E+01	6.15E+01	U
FH	03	518929003	8/10/2020	Sb-124	5.01E+00	3.61E+00	1.40E+01	U
FH	03	518929003	8/10/2020	Sb-125	9.94E+00	6.78E+00	1.67E+01	U
FH	03	518929003	8/10/2020	Se-75	-3.47E+00	2.43E+00	7.00E+00	U
FH	03	518929003	8/10/2020	Th-228	-3.51E+00	3.81E+00	1.13E+01	U
FH	03	518929003	8/10/2020	Th-230	4.66E+00	7.67E+00	1.31E+01	U
FH	03	518929003	8/10/2020	Tl-208	1.48E+00	2.03E+00	6.72E+00	U
FH	03	518929003	8/10/2020	Zn-65	3.74E+00	5.37E+00	1.82E+01	U
FH	03	518929003	8/10/2020	Zr-95	-4.02E+00	3.70E+00	1.10E+01	U
FH	03	513410001	5/20/2020	Ac-228	-6.83E+00	7.33E+00	2.06E+01	U
FH	03	513410001	5/20/2020	Ag-108m	1.25E+00	1.05E+00	3.60E+00	U
FH	03	513410001	5/20/2020	Ag-110m	2.25E+00	2.05E+00	6.86E+00	U
FH	03	513410001	5/20/2020	Ba-140	-2.72E-01	3.20E+01	9.71E+01	U
FH	03	513410001	5/20/2020	Be-7	1.32E+01	1.51E+01	5.18E+01	U
FH	03	513410001	5/20/2020	Bi-214	5.78E+00	5.75E+00	8.06E+00	U
FH	03	513410001	5/20/2020	Ce-141	-2.99E+00	3.53E+00	1.09E+01	U
FH	03	513410001	5/20/2020	Ce-144	9.39E+00	7.85E+00	2.55E+01	U
FH	03	513410001	5/20/2020	Co-57	2.77E+00	2.15E+00	3.19E+00	U
FH	03	513410001	5/20/2020	Co-58	-1.07E+00	1.94E+00	5.71E+00	U
FH	03	513410001	5/20/2020	Co-60	-4.90E-01	2.12E+00	6.53E+00	U
FH	03	513410001	5/20/2020	Cr-51	-1.68E+01	2.07E+01	6.77E+01	U
FH	03	513410001	5/20/2020	Cs-134	-2.92E+00	1.99E+00	5.00E+00	U
FH	03	513410001	5/20/2020	Cs-137	3.49E+00	2.50E+00	4.01E+00	U
FH	03	513410001	5/20/2020	Fe-59	-7.34E+00	5.68E+00	1.56E+01	U
FH	03	513410001	5/20/2020	I-131	-7.67E+00	2.00E+01	6.69E+01	U
FH	03	513410001	5/20/2020	K-40	3.40E+03	1.85E+02	3.91E+01	
FH	03	513410001	5/20/2020	La-140	-3.89E+00	5.98E+00	1.76E+01	U
FH	03	513410001	5/20/2020	Mn-54	1.61E+00	1.63E+00	5.41E+00	U
FH	03	513410001	5/20/2020	Nb-95	-3.46E+00	2.00E+00	5.22E+00	U
FH	03	513410001	5/20/2020	Pb-212	4.25E+00	4.15E+00	7.81E+00	U
FH	03	513410001	5/20/2020	Pb-214	5.45E+00	5.17E+00	1.12E+01	U
FH	03	513410001	5/20/2020	Ra-226	5.78E+00	5.75E+00	8.06E+00	U
FH	03	513410001	5/20/2020	Ru-103	-2.15E+00	2.09E+00	6.44E+00	U
FH	03	513410001	5/20/2020	Ru-106	1.17E+01	1.26E+01	4.28E+01	U
FH	03	513410001	5/20/2020	Sb-124	-1.14E-01	3.46E+00	1.14E+01	U
FH	03	513410001	5/20/2020	Sb-125	5.29E-01	2.98E+00	1.02E+01	U
FH	03	513410001	5/20/2020	Se-75	-2.05E+00	1.92E+00	5.52E+00	U
FH	03	513410001	5/20/2020	Th-228	4.25E+00	4.15E+00	7.81E+00	U
FH	03	513410001	5/20/2020	Th-230	5.78E+00	5.75E+00	8.06E+00	U
FH	03	513410001	5/20/2020	Tl-208	1.92E+00	2.47E+00	4.76E+00	U
FH	03	513410001	5/20/2020	Zn-65	3.20E+00	3.74E+00	1.23E+01	U
FH	03	513410001	5/20/2020	Zr-95	3.03E+00	3.16E+00	1.07E+01	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
FH	03	529897001	11/17/2020	Ac-228	-4.56E+00	1.18E+01	3.63E+01	U
FH	03	529897001	11/17/2020	Ag-108m	2.24E+00	1.39E+00	4.97E+00	U
FH	03	529897001	11/17/2020	Ag-110m	-3.63E+00	3.25E+00	8.96E+00	U
FH	03	529897001	11/17/2020	Ba-140	-1.93E+01	3.26E+01	9.65E+01	U
FH	03	529897001	11/17/2020	Be-7	7.61E+00	2.08E+01	7.22E+01	U
FH	03	529897001	11/17/2020	Bi-214	3.34E+00	5.33E+00	1.79E+01	U
FH	03	529897001	11/17/2020	Ce-141	-1.31E+00	5.07E+00	1.48E+01	U
FH	03	529897001	11/17/2020	Ce-144	4.18E+00	1.08E+01	3.62E+01	U
FH	03	529897001	11/17/2020	Co-57	-7.11E-01	1.39E+00	4.44E+00	U
FH	03	529897001	11/17/2020	Co-58	-3.40E+00	2.42E+00	6.14E+00	U
FH	03	529897001	11/17/2020	Co-60	1.16E+00	2.54E+00	8.94E+00	U
FH	03	529897001	11/17/2020	Cr-51	-3.71E+01	3.21E+01	8.87E+01	U
FH	03	529897001	11/17/2020	Cs-134	5.10E+00	4.13E+00	8.74E+00	U
FH	03	529897001	11/17/2020	Cs-137	-2.75E-01	1.96E+00	6.42E+00	U
FH	03	529897001	11/17/2020	Fe-59	5.74E+00	7.62E+00	2.36E+01	U
FH	03	529897001	11/17/2020	I-131	1.55E+01	2.04E+01	6.65E+01	U
FH	03	529897001	11/17/2020	K-40	2.86E+03	1.94E+02	6.88E+01	
FH	03	529897001	11/17/2020	La-140	1.02E+01	1.09E+01	4.01E+01	U
FH	03	529897001	11/17/2020	Mn-54	-2.04E-01	2.39E+00	7.36E+00	U
FH	03	529897001	11/17/2020	Nb-95	5.11E-01	2.82E+00	9.42E+00	U
FH	03	529897001	11/17/2020	Pb-212	2.50E+00	3.53E+00	1.16E+01	U
FH	03	529897001	11/17/2020	Pb-214	1.14E+01	6.65E+00	1.39E+01	U
FH	03	529897001	11/17/2020	Ra-226	3.34E+00	5.33E+00	1.79E+01	U
FH	03	529897001	11/17/2020	Ru-103	-8.13E-01	2.62E+00	8.65E+00	U
FH	03	529897001	11/17/2020	Ru-106	-4.07E+01	2.01E+01	4.65E+01	U
FH	03	529897001	11/17/2020	Sb-124	-5.21E+00	5.44E+00	1.61E+01	U
FH	03	529897001	11/17/2020	Sb-125	-2.60E+00	4.38E+00	1.42E+01	U
FH	03	529897001	11/17/2020	Se-75	-2.37E+00	3.14E+00	8.90E+00	U
FH	03	529897001	11/17/2020	Th-228	2.50E+00	3.53E+00	1.16E+01	U
FH	03	529897001	11/17/2020	Th-230	3.34E+00	5.33E+00	1.79E+01	U
FH	03	529897001	11/17/2020	Tl-208	-2.83E+00	2.23E+00	6.91E+00	U
FH	03	529897001	11/17/2020	Zn-65	1.60E+00	6.24E+00	2.04E+01	U
FH	03	529897001	11/17/2020	Zr-95	-8.64E-01	4.81E+00	1.56E+01	U
FH	03	505302001	2/10/2020	Ac-228	-7.05E+00	1.23E+01	3.80E+01	U
FH	03	505302001	2/10/2020	Ag-108m	7.99E+00	2.99E+00	8.19E+00	U
FH	03	505302001	2/10/2020	Ag-110m	1.49E+00	4.11E+00	1.25E+01	U
FH	03	505302001	2/10/2020	Ba-140	-1.53E+01	2.11E+01	6.36E+01	U
FH	03	505302001	2/10/2020	Be-7	3.21E+01	2.39E+01	7.97E+01	U
FH	03	505302001	2/10/2020	Bi-214	-6.62E+00	5.74E+00	1.53E+01	U
FH	03	505302001	2/10/2020	Ce-141	-1.51E+00	4.42E+00	1.50E+01	U
FH	03	505302001	2/10/2020	Ce-144	-7.69E-01	1.42E+01	4.40E+01	U
FH	03	505302001	2/10/2020	Co-57	-2.10E-01	1.88E+00	5.85E+00	U
FH	03	505302001	2/10/2020	Co-58	4.18E+00	2.86E+00	9.97E+00	U
FH	03	505302001	2/10/2020	Co-60	2.33E+00	2.67E+00	9.27E+00	U
FH	03	505302001	2/10/2020	Cr-51	4.57E+01	3.24E+01	9.79E+01	U
FH	03	505302001	2/10/2020	Cs-134	-1.07E+00	2.40E+00	7.77E+00	U
FH	03	505302001	2/10/2020	Cs-137	5.11E+00	2.83E+00	9.31E+00	U
FH	03	505302001	2/10/2020	Fe-59	5.86E-01	6.59E+00	2.19E+01	U
FH	03	505302001	2/10/2020	I-131	-1.99E+00	1.01E+01	3.30E+01	U
FH	03	505302001	2/10/2020	K-40	3.16E+03	2.13E+02	8.22E+01	

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
FH	03	505302001	2/10/2020	La-140	4.70E+00	6.26E+00	2.18E+01	U
FH	03	505302001	2/10/2020	Mn-54	2.60E+00	2.51E+00	8.76E+00	U
FH	03	505302001	2/10/2020	Nb-95	-1.29E+00	3.06E+00	1.00E+01	U
FH	03	505302001	2/10/2020	Pb-212	1.04E+01	6.16E+00	1.52E+01	U
FH	03	505302001	2/10/2020	Pb-214	-1.06E+01	6.66E+00	1.79E+01	U
FH	03	505302001	2/10/2020	Ra-226	-6.62E+00	5.74E+00	1.53E+01	U
FH	03	505302001	2/10/2020	Ru-103	-2.57E+00	3.03E+00	9.08E+00	U
FH	03	505302001	2/10/2020	Ru-106	-1.05E+01	2.47E+01	7.59E+01	U
FH	03	505302001	2/10/2020	Sb-124	6.54E-01	5.28E+00	1.81E+01	U
FH	03	505302001	2/10/2020	Sb-125	2.46E+00	7.16E+00	2.37E+01	U
FH	03	505302001	2/10/2020	Se-75	-4.92E+00	3.64E+00	1.09E+01	U
FH	03	505302001	2/10/2020	Th-228	1.04E+01	6.16E+00	1.52E+01	U
FH	03	505302001	2/10/2020	Th-230	-6.62E+00	5.74E+00	1.53E+01	U
FH	03	505302001	2/10/2020	Tl-208	1.26E+00	2.80E+00	8.91E+00	U
FH	03	505302001	2/10/2020	Zn-65	-6.61E+00	5.80E+00	1.65E+01	U
FH	03	505302001	2/10/2020	Zr-95	-6.69E+00	4.87E+00	1.39E+01	U
FH	06	513410003	5/27/2020	Ac-228	9.46E+00	1.87E+01	3.17E+01	U
FH	06	513410003	5/27/2020	Ag-108m	2.19E+00	1.62E+00	5.50E+00	U
FH	06	513410003	5/27/2020	Ag-110m	-3.25E+00	3.05E+00	8.62E+00	U
FH	06	513410003	5/27/2020	Ba-140	1.70E+01	2.70E+01	9.15E+01	U
FH	06	513410003	5/27/2020	Be-7	4.30E+00	2.13E+01	7.17E+01	U
FH	06	513410003	5/27/2020	Bi-214	3.14E+00	7.37E+00	1.78E+01	U
FH	06	513410003	5/27/2020	Ce-141	6.94E-01	5.03E+00	1.49E+01	U
FH	06	513410003	5/27/2020	Ce-144	-2.43E+01	1.36E+01	3.69E+01	U
FH	06	513410003	5/27/2020	Co-57	-7.03E-01	1.57E+00	4.95E+00	U
FH	06	513410003	5/27/2020	Co-58	-1.44E+00	2.60E+00	7.98E+00	U
FH	06	513410003	5/27/2020	Co-60	2.42E+00	2.69E+00	8.63E+00	U
FH	06	513410003	5/27/2020	Cr-51	-4.32E+00	2.77E+01	9.39E+01	U
FH	06	513410003	5/27/2020	Cs-134	5.92E+00	2.55E+00	8.19E+00	U
FH	06	513410003	5/27/2020	Cs-137	2.16E+00	2.07E+00	6.99E+00	U
FH	06	513410003	5/27/2020	Fe-59	8.21E+00	6.86E+00	2.38E+01	U
FH	06	513410003	5/27/2020	I-131	-1.90E+01	1.88E+01	5.91E+01	U
FH	06	513410003	5/27/2020	K-40	3.31E+03	2.18E+02	4.71E+01	
FH	06	513410003	5/27/2020	La-140	-4.53E+00	9.31E+00	2.87E+01	U
FH	06	513410003	5/27/2020	Mn-54	2.10E+00	2.12E+00	7.08E+00	U
FH	06	513410003	5/27/2020	Nb-95	-3.39E-02	3.18E+00	9.10E+00	U
FH	06	513410003	5/27/2020	Pb-212	-1.01E+00	4.66E+00	1.34E+01	U
FH	06	513410003	5/27/2020	Pb-214	4.67E+00	7.15E+00	1.66E+01	U
FH	06	513410003	5/27/2020	Ra-226	3.14E+00	7.37E+00	1.78E+01	U
FH	06	513410003	5/27/2020	Ru-103	1.22E+00	2.59E+00	8.76E+00	U
FH	06	513410003	5/27/2020	Ru-106	4.04E+01	2.33E+01	5.38E+01	U
FH	06	513410003	5/27/2020	Sb-124	3.61E+00	5.45E+00	1.90E+01	U
FH	06	513410003	5/27/2020	Sb-125	-5.40E-01	5.04E+00	1.68E+01	U
FH	06	513410003	5/27/2020	Se-75	3.87E+00	2.68E+00	9.13E+00	U
FH	06	513410003	5/27/2020	Th-228	-1.01E+00	4.66E+00	1.34E+01	U
FH	06	513410003	5/27/2020	Th-230	3.14E+00	7.37E+00	1.78E+01	U
FH	06	513410003	5/27/2020	Tl-208	-1.32E+00	2.93E+00	8.22E+00	U
FH	06	513410003	5/27/2020	Zn-65	4.33E+00	5.33E+00	1.85E+01	U
FH	06	513410003	5/27/2020	Zr-95	-8.52E+00	4.80E+00	1.20E+01	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
FH	53	505302002	2/19/2020	Ac-228	-6.05E+00	9.17E+00	2.76E+01	U
FH	53	505302002	2/19/2020	Ag-108m	8.36E-01	1.39E+00	4.84E+00	U
FH	53	505302002	2/19/2020	Ag-110m	-1.21E+00	2.57E+00	7.85E+00	U
FH	53	505302002	2/19/2020	Ba-140	-3.57E+00	1.08E+01	3.51E+01	U
FH	53	505302002	2/19/2020	Be-7	-1.61E+00	1.43E+01	4.78E+01	U
FH	53	505302002	2/19/2020	Bi-214	-4.29E-01	4.66E+00	1.52E+01	U
FH	53	505302002	2/19/2020	Ce-141	-2.81E+00	2.74E+00	8.14E+00	U
FH	53	505302002	2/19/2020	Ce-144	4.74E+00	1.53E+01	2.88E+01	U
FH	53	505302002	2/19/2020	Co-57	6.35E-01	1.25E+00	4.14E+00	U
FH	53	505302002	2/19/2020	Co-58	-1.26E+00	2.03E+00	6.17E+00	U
FH	53	505302002	2/19/2020	Co-60	-2.97E+00	2.65E+00	7.71E+00	U
FH	53	505302002	2/19/2020	Cr-51	6.84E-01	1.55E+01	5.34E+01	U
FH	53	505302002	2/19/2020	Cs-134	2.11E+00	2.45E+00	8.30E+00	U
FH	53	505302002	2/19/2020	Cs-137	0.00E+00	2.87E+00	6.67E+00	U
FH	53	505302002	2/19/2020	Fe-59	1.70E+00	5.97E+00	1.93E+01	U
FH	53	505302002	2/19/2020	I-131	4.35E-01	3.02E+00	1.04E+01	U
FH	53	505302002	2/19/2020	K-40	3.42E+03	2.05E+02	5.14E+01	
FH	53	505302002	2/19/2020	La-140	6.93E-01	3.69E+00	1.25E+01	U
FH	53	505302002	2/19/2020	Mn-54	-1.92E-01	1.91E+00	6.13E+00	U
FH	53	505302002	2/19/2020	Nb-95	1.42E+00	2.37E+00	7.91E+00	U
FH	53	505302002	2/19/2020	Pb-212	3.26E+00	4.83E+00	9.72E+00	U
FH	53	505302002	2/19/2020	Pb-214	-4.21E-01	4.10E+00	1.33E+01	U
FH	53	505302002	2/19/2020	Ra-226	-4.29E-01	4.66E+00	1.52E+01	U
FH	53	505302002	2/19/2020	Ru-103	-8.89E-01	1.90E+00	6.14E+00	U
FH	53	505302002	2/19/2020	Ru-106	-1.06E+01	1.31E+01	3.89E+01	U
FH	53	505302002	2/19/2020	Sb-124	3.63E+00	3.41E+00	1.30E+01	U
FH	53	505302002	2/19/2020	Sb-125	-8.75E-01	4.29E+00	1.43E+01	U
FH	53	505302002	2/19/2020	Se-75	1.27E+00	2.48E+00	7.94E+00	U
FH	53	505302002	2/19/2020	Th-228	3.26E+00	4.83E+00	9.72E+00	U
FH	53	505302002	2/19/2020	Th-230	-4.29E-01	4.66E+00	1.52E+01	U
FH	53	505302002	2/19/2020	Tl-208	-1.81E+00	2.10E+00	6.30E+00	U
FH	53	505302002	2/19/2020	Zn-65	1.67E+00	5.82E+00	1.88E+01	U
FH	53	505302002	2/19/2020	Zr-95	-4.39E+00	3.80E+00	1.07E+01	U
FH	53	530897001	12/18/2020	Ac-228	-2.01E+01	2.06E+01	6.23E+01	U
FH	53	530897001	12/18/2020	Ag-108m	3.05E+00	3.04E+00	1.08E+01	U
FH	53	530897001	12/18/2020	Ag-110m	-1.95E+00	7.76E+00	1.62E+01	U
FH	53	530897001	12/18/2020	Ba-140	2.42E+01	2.07E+01	7.35E+01	U
FH	53	530897001	12/18/2020	Be-7	-2.55E+01	2.84E+01	8.58E+01	U
FH	53	530897001	12/18/2020	Bi-214	2.93E+01	1.39E+01	3.78E+01	U
FH	53	530897001	12/18/2020	Ce-141	1.26E+00	5.48E+00	1.71E+01	U
FH	53	530897001	12/18/2020	Ce-144	9.64E+00	2.07E+01	7.00E+01	U
FH	53	530897001	12/18/2020	Co-57	-1.21E+00	2.10E+00	6.74E+00	U
FH	53	530897001	12/18/2020	Co-58	7.16E+00	4.93E+00	1.72E+01	U
FH	53	530897001	12/18/2020	Co-60	4.45E+00	5.06E+00	1.81E+01	U
FH	53	530897001	12/18/2020	Cr-51	3.36E+01	3.55E+01	1.17E+02	U
FH	53	530897001	12/18/2020	Cs-134	-4.77E+00	4.77E+00	1.33E+01	U
FH	53	530897001	12/18/2020	Cs-137	-3.55E+00	4.69E+00	1.42E+01	U
FH	53	530897001	12/18/2020	Fe-59	6.47E+00	1.00E+01	3.55E+01	U
FH	53	530897001	12/18/2020	I-131	4.08E+00	8.58E+00	3.01E+01	U
FH	53	530897001	12/18/2020	K-40	2.64E+03	2.36E+02	1.78E+02	

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
FH	53	530897001	12/18/2020	La-140	1.43E+00	7.45E+00	2.51E+01	U
FH	53	530897001	12/18/2020	Mn-54	5.33E+00	5.14E+00	1.62E+01	U
FH	53	530897001	12/18/2020	Nb-95	4.96E+00	4.19E+00	1.47E+01	U
FH	53	530897001	12/18/2020	Pb-212	-1.75E+01	8.35E+00	2.00E+01	U
FH	53	530897001	12/18/2020	Pb-214	8.37E+00	1.03E+01	3.16E+01	U
FH	53	530897001	12/18/2020	Ra-226	2.93E+01	1.39E+01	3.78E+01	U
FH	53	530897001	12/18/2020	Ru-103	1.18E+00	4.19E+00	1.44E+01	U
FH	53	530897001	12/18/2020	Ru-106	-3.89E+00	4.16E+01	1.36E+02	U
FH	53	530897001	12/18/2020	Sb-124	-2.16E+01	1.12E+01	1.57E+01	U
FH	53	530897001	12/18/2020	Sb-125	1.00E+01	1.01E+01	3.55E+01	U
FH	53	530897001	12/18/2020	Se-75	-1.95E+00	4.92E+00	1.52E+01	U
FH	53	530897001	12/18/2020	Th-228	-1.75E+01	8.35E+00	2.00E+01	U
FH	53	530897001	12/18/2020	Th-230	2.93E+01	1.39E+01	3.78E+01	U
FH	53	530897001	12/18/2020	Tl-208	-6.62E+00	6.00E+00	1.73E+01	U
FH	53	530897001	12/18/2020	Zn-65	6.11E+00	9.94E+00	3.51E+01	U
FH	53	530897001	12/18/2020	Zr-95	3.83E+00	7.82E+00	2.65E+01	U
FH	53	511590001	5/13/2020	Ac-228	1.82E+01	1.11E+01	2.01E+01	U
FH	53	511590001	5/13/2020	Ag-108m	-2.04E-01	1.44E+00	4.79E+00	U
FH	53	511590001	5/13/2020	Ag-110m	2.47E+00	2.50E+00	8.32E+00	U
FH	53	511590001	5/13/2020	Ba-140	5.35E+00	8.82E+00	2.99E+01	U
FH	53	511590001	5/13/2020	Be-7	7.47E+00	1.42E+01	4.81E+01	U
FH	53	511590001	5/13/2020	Bi-214	-2.45E+00	4.84E+00	1.37E+01	U
FH	53	511590001	5/13/2020	Ce-141	2.66E+00	3.04E+00	9.79E+00	U
FH	53	511590001	5/13/2020	Ce-144	6.68E+00	1.05E+01	3.41E+01	U
FH	53	511590001	5/13/2020	Co-57	1.00E-01	1.33E+00	4.29E+00	U
FH	53	511590001	5/13/2020	Co-58	4.07E-01	1.63E+00	5.33E+00	U
FH	53	511590001	5/13/2020	Co-60	-2.48E+00	2.44E+00	6.16E+00	U
FH	53	511590001	5/13/2020	Cr-51	-2.50E+01	1.75E+01	4.85E+01	U
FH	53	511590001	5/13/2020	Cs-134	-2.10E-01	1.89E+00	6.03E+00	U
FH	53	511590001	5/13/2020	Cs-137	0.00E+00	2.31E+00	5.16E+00	U
FH	53	511590001	5/13/2020	Fe-59	1.83E+00	4.74E+00	1.63E+01	U
FH	53	511590001	5/13/2020	I-131	3.54E+00	3.40E+00	1.16E+01	U
FH	53	511590001	5/13/2020	K-40	3.43E+03	2.17E+02	5.42E+01	
FH	53	511590001	5/13/2020	La-140	-3.60E+00	2.84E+00	7.42E+00	U
FH	53	511590001	5/13/2020	Mn-54	-1.27E+00	1.97E+00	6.01E+00	U
FH	53	511590001	5/13/2020	Nb-95	1.25E+00	1.94E+00	6.45E+00	U
FH	53	511590001	5/13/2020	Pb-212	-6.21E+00	4.03E+00	1.02E+01	U
FH	53	511590001	5/13/2020	Pb-214	5.87E+00	7.17E+00	1.35E+01	U
FH	53	511590001	5/13/2020	Ra-226	-2.45E+00	4.84E+00	1.37E+01	U
FH	53	511590001	5/13/2020	Ru-103	1.21E+00	1.63E+00	5.53E+00	U
FH	53	511590001	5/13/2020	Ru-106	-1.36E+01	1.62E+01	4.97E+01	U
FH	53	511590001	5/13/2020	Sb-124	-2.11E-01	3.74E+00	1.17E+01	U
FH	53	511590001	5/13/2020	Sb-125	-4.70E-01	4.05E+00	1.35E+01	U
FH	53	511590001	5/13/2020	Se-75	3.59E-01	2.05E+00	7.07E+00	U
FH	53	511590001	5/13/2020	Th-228	-6.21E+00	4.03E+00	1.02E+01	U
FH	53	511590001	5/13/2020	Th-230	-2.45E+00	4.84E+00	1.37E+01	U
FH	53	511590001	5/13/2020	Tl-208	-2.59E+00	2.32E+00	6.41E+00	U
FH	53	511590001	5/13/2020	Zn-65	4.12E+00	4.95E+00	1.71E+01	U
FH	53	511590001	5/13/2020	Zr-95	5.71E+00	5.03E+00	1.09E+01	U

Seabrook REMP Summary of 2020 Data

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
FH	53	518929002	8/11/2020	Ac-228	9.32E-01	1.05E+01	3.19E+01	U
FH	53	518929002	8/11/2020	Ag-108m	-2.87E+00	1.71E+00	4.61E+00	U
FH	53	518929002	8/11/2020	Ag-110m	-1.26E+00	3.33E+00	1.02E+01	U
FH	53	518929002	8/11/2020	Ba-140	0.00E+00	1.92E+01	3.91E+01	U
FH	53	518929002	8/11/2020	Be-7	-2.52E+01	1.85E+01	5.28E+01	U
FH	53	518929002	8/11/2020	Bi-214	-2.29E+00	4.50E+00	1.41E+01	U
FH	53	518929002	8/11/2020	Ce-141	1.56E-01	3.01E+00	9.26E+00	U
FH	53	518929002	8/11/2020	Ce-144	2.92E+00	1.12E+01	3.65E+01	U
FH	53	518929002	8/11/2020	Co-57	1.18E+00	1.43E+00	4.70E+00	U
FH	53	518929002	8/11/2020	Co-58	-2.43E+00	2.16E+00	5.88E+00	U
FH	53	518929002	8/11/2020	Co-60	3.95E+00	2.44E+00	8.81E+00	U
FH	53	518929002	8/11/2020	Cr-51	3.41E+01	2.35E+01	5.45E+01	U
FH	53	518929002	8/11/2020	Cs-134	1.22E+00	2.44E+00	8.13E+00	U
FH	53	518929002	8/11/2020	Cs-137	6.72E+00	2.79E+00	8.99E+00	U
FH	53	518929002	8/11/2020	Fe-59	-1.27E+00	5.46E+00	1.58E+01	U
FH	53	518929002	8/11/2020	I-131	5.38E+00	3.61E+00	1.25E+01	U
FH	53	518929002	8/11/2020	K-40	3.50E+03	2.25E+02	5.39E+01	
FH	53	518929002	8/11/2020	La-140	7.19E-02	3.28E+00	1.08E+01	U
FH	53	518929002	8/11/2020	Mn-54	-3.17E+00	2.22E+00	5.28E+00	U
FH	53	518929002	8/11/2020	Nb-95	9.13E-01	2.18E+00	7.23E+00	U
FH	53	518929002	8/11/2020	Pb-212	9.92E+00	6.41E+00	1.84E+01	U
FH	53	518929002	8/11/2020	Pb-214	4.34E-01	4.35E+00	1.38E+01	U
FH	53	518929002	8/11/2020	Ra-226	-2.29E+00	4.50E+00	1.41E+01	U
FH	53	518929002	8/11/2020	Ru-103	-2.82E-02	1.79E+00	5.92E+00	U
FH	53	518929002	8/11/2020	Ru-106	1.11E+01	1.62E+01	5.53E+01	U
FH	53	518929002	8/11/2020	Sb-124	3.02E+00	3.67E+00	1.36E+01	U
FH	53	518929002	8/11/2020	Sb-125	-1.12E+00	4.94E+00	1.63E+01	U
FH	53	518929002	8/11/2020	Se-75	2.49E-01	2.17E+00	7.50E+00	U
FH	53	518929002	8/11/2020	Th-228	9.92E+00	6.41E+00	1.84E+01	U
FH	53	518929002	8/11/2020	Th-230	-2.29E+00	4.50E+00	1.41E+01	U
FH	53	518929002	8/11/2020	Tl-208	4.20E+00	4.07E+00	6.28E+00	U
FH	53	518929002	8/11/2020	Zn-65	1.30E+00	5.40E+00	1.85E+01	U
FH	53	518929002	8/11/2020	Zr-95	3.00E+00	4.09E+00	1.38E+01	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
HA	04	511606001	5/14/2020	Ac-228	1.97E+01	1.64E+01	4.88E+01	U
HA	04	511606001	5/14/2020	Ag-108m	-1.83E+00	3.06E+00	8.29E+00	U
HA	04	511606001	5/14/2020	Ag-110m	-1.78E+00	4.42E+00	1.45E+01	U
HA	04	511606001	5/14/2020	Ba-140	3.72E+01	3.15E+01	4.06E+01	U
HA	04	511606001	5/14/2020	Be-7	-4.21E+01	3.24E+01	8.45E+01	U
HA	04	511606001	5/14/2020	Bi-214	-4.97E+00	8.37E+00	2.37E+01	U
HA	04	511606001	5/14/2020	Ce-141	2.26E+00	4.85E+00	1.52E+01	U
HA	04	511606001	5/14/2020	Ce-144	-5.13E+00	1.62E+01	5.26E+01	U
HA	04	511606001	5/14/2020	Co-57	1.01E+00	2.23E+00	6.50E+00	U
HA	04	511606001	5/14/2020	Co-58	4.27E+00	2.79E+00	9.84E+00	U
HA	04	511606001	5/14/2020	Co-60	2.41E+00	3.78E+00	1.29E+01	U
HA	04	511606001	5/14/2020	Cr-51	3.90E+00	3.39E+01	9.79E+01	U
HA	04	511606001	5/14/2020	Cs-134	6.50E+00	3.70E+00	1.27E+01	U
HA	04	511606001	5/14/2020	Cs-137	2.80E+00	3.76E+00	1.24E+01	U
HA	04	511606001	5/14/2020	Fe-59	-1.04E+01	7.25E+00	2.01E+01	U
HA	04	511606001	5/14/2020	I-131	-4.86E+00	5.88E+00	1.84E+01	U
HA	04	511606001	5/14/2020	K-40	2.31E+03	1.63E+02	8.10E+01	
HA	04	511606001	5/14/2020	La-140	1.10E+00	6.63E+00	2.18E+01	U
HA	04	511606001	5/14/2020	Mn-54	-3.67E-01	3.24E+00	1.09E+01	U
HA	04	511606001	5/14/2020	Nb-95	-3.21E-01	3.57E+00	1.12E+01	U
HA	04	511606001	5/14/2020	Pb-212	-1.39E+01	7.67E+00	1.89E+01	U
HA	04	511606001	5/14/2020	Pb-214	1.14E+01	8.67E+00	2.51E+01	U
HA	04	511606001	5/14/2020	Ra-226	-4.97E+00	8.37E+00	2.37E+01	U
HA	04	511606001	5/14/2020	Ru-103	4.90E+00	3.38E+00	1.12E+01	U
HA	04	511606001	5/14/2020	Ru-106	9.88E+00	2.79E+01	9.14E+01	U
HA	04	511606001	5/14/2020	Sb-124	7.99E+00	7.26E+00	2.57E+01	U
HA	04	511606001	5/14/2020	Sb-125	3.78E+00	7.72E+00	2.33E+01	U
HA	04	511606001	5/14/2020	Se-75	-2.15E+00	3.59E+00	1.16E+01	U
HA	04	511606001	5/14/2020	Th-228	-1.39E+01	7.67E+00	1.89E+01	U
HA	04	511606001	5/14/2020	Th-230	-4.97E+00	8.37E+00	2.37E+01	U
HA	04	511606001	5/14/2020	Tl-208	-3.60E+00	4.48E+00	1.20E+01	U
HA	04	511606001	5/14/2020	Zn-65	6.55E+00	7.68E+00	2.65E+01	U
HA	04	511606001	5/14/2020	Zr-95	7.09E+00	5.53E+00	1.85E+01	U
HA	04	528387001	11/19/2020	Ac-228	-5.01E+00	7.35E+00	2.15E+01	U
HA	04	528387001	11/19/2020	Ag-108m	-5.86E-01	1.03E+00	3.35E+00	U
HA	04	528387001	11/19/2020	Ag-110m	2.26E+00	2.04E+00	6.86E+00	U
HA	04	528387001	11/19/2020	Ba-140	0.00E+00	2.53E+01	3.59E+01	U
HA	04	528387001	11/19/2020	Be-7	-3.33E-01	1.25E+01	4.19E+01	U
HA	04	528387001	11/19/2020	Bi-214	0.00E+00	7.47E+00	1.30E+01	U
HA	04	528387001	11/19/2020	Ce-141	-8.67E+00	3.52E+00	6.76E+00	U
HA	04	528387001	11/19/2020	Ce-144	3.30E+00	7.61E+00	2.48E+01	U
HA	04	528387001	11/19/2020	Co-57	1.15E+00	9.94E-01	3.24E+00	U
HA	04	528387001	11/19/2020	Co-58	9.38E-01	1.54E+00	5.13E+00	U
HA	04	528387001	11/19/2020	Co-60	-3.79E-01	1.57E+00	5.15E+00	U
HA	04	528387001	11/19/2020	Cr-51	-1.54E+01	1.21E+01	3.73E+01	U
HA	04	528387001	11/19/2020	Cs-134	-2.12E+00	1.40E+00	3.65E+00	U
HA	04	528387001	11/19/2020	Cs-137	1.80E+00	1.41E+00	4.79E+00	U
HA	04	528387001	11/19/2020	Fe-59	5.64E-01	3.75E+00	1.20E+01	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
HA	04	528387001	11/19/2020	I-131	2.34E+00	3.64E+00	1.26E+01	U
HA	04	528387001	11/19/2020	K-40	1.98E+03	1.19E+02	5.98E+01	
HA	04	528387001	11/19/2020	La-140	-7.72E+00	3.13E+00	3.86E+00	U
HA	04	528387001	11/19/2020	Mn-54	8.30E-02	1.46E+00	4.73E+00	U
HA	04	528387001	11/19/2020	Nb-95	3.22E-01	1.62E+00	5.33E+00	U
HA	04	528387001	11/19/2020	Pb-212	2.49E+00	3.94E+00	8.63E+00	U
HA	04	528387001	11/19/2020	Pb-214	3.92E+00	5.74E+00	1.13E+01	U
HA	04	528387001	11/19/2020	Ra-226	0.00E+00	7.47E+00	1.30E+01	U
HA	04	528387001	11/19/2020	Ru-103	2.02E-01	1.60E+00	5.39E+00	U
HA	04	528387001	11/19/2020	Ru-106	-2.05E+01	1.30E+01	3.57E+01	U
HA	04	528387001	11/19/2020	Sb-124	-3.88E+00	3.16E+00	8.18E+00	U
HA	04	528387001	11/19/2020	Sb-125	2.69E+00	3.47E+00	1.19E+01	U
HA	04	528387001	11/19/2020	Se-75	-7.57E-01	1.82E+00	5.55E+00	U
HA	04	528387001	11/19/2020	Th-228	2.49E+00	3.94E+00	8.63E+00	U
HA	04	528387001	11/19/2020	Th-230	0.00E+00	7.47E+00	1.30E+01	U
HA	04	528387001	11/19/2020	Tl-208	1.71E-01	2.34E+00	4.23E+00	U
HA	04	528387001	11/19/2020	Zn-65	1.04E+00	3.80E+00	1.31E+01	U
HA	04	528387001	11/19/2020	Zr-95	1.16E+00	2.98E+00	9.90E+00	U
HA	54	511606002	5/15/2020	Ac-228	8.67E+01	2.45E+01	4.25E+01	
HA	54	511606002	5/15/2020	Ag-108m	2.24E+00	3.35E+00	1.13E+01	U
HA	54	511606002	5/15/2020	Ag-110m	-1.90E+00	4.74E+00	1.55E+01	U
HA	54	511606002	5/15/2020	Ba-140	1.45E+01	2.45E+01	6.31E+01	U
HA	54	511606002	5/15/2020	Be-7	3.67E+01	3.50E+01	1.04E+02	U
HA	54	511606002	5/15/2020	Bi-214	-3.23E+00	1.14E+01	3.13E+01	U
HA	54	511606002	5/15/2020	Ce-141	5.06E+00	1.04E+01	1.96E+01	U
HA	54	511606002	5/15/2020	Ce-144	-4.77E-01	2.15E+01	7.27E+01	U
HA	54	511606002	5/15/2020	Co-57	-3.20E-01	2.77E+00	9.42E+00	U
HA	54	511606002	5/15/2020	Co-58	5.81E+00	3.69E+00	1.23E+01	U
HA	54	511606002	5/15/2020	Co-60	-2.60E+00	3.53E+00	1.12E+01	U
HA	54	511606002	5/15/2020	Cr-51	1.32E+01	3.60E+01	1.16E+02	U
HA	54	511606002	5/15/2020	Cs-134	5.04E+00	6.04E+00	1.35E+01	U
HA	54	511606002	5/15/2020	Cs-137	9.72E-01	3.96E+00	1.29E+01	U
HA	54	511606002	5/15/2020	Fe-59	-3.71E-01	7.42E+00	2.42E+01	U
HA	54	511606002	5/15/2020	I-131	-2.06E+00	6.43E+00	2.16E+01	U
HA	54	511606002	5/15/2020	K-40	2.60E+03	1.82E+02	1.11E+02	
HA	54	511606002	5/15/2020	La-140	-2.27E+00	5.33E+00	1.70E+01	U
HA	54	511606002	5/15/2020	Mn-54	7.50E-01	3.54E+00	1.19E+01	U
HA	54	511606002	5/15/2020	Nb-95	4.85E+00	3.83E+00	1.29E+01	U
HA	54	511606002	5/15/2020	Pb-212	-9.51E-01	9.47E+00	2.70E+01	U
HA	54	511606002	5/15/2020	Pb-214	-9.24E+00	1.14E+01	3.09E+01	U
HA	54	511606002	5/15/2020	Ra-226	-3.23E+00	1.14E+01	3.13E+01	U
HA	54	511606002	5/15/2020	Ru-103	2.68E+00	3.70E+00	1.24E+01	U
HA	54	511606002	5/15/2020	Ru-106	1.86E+01	3.33E+01	1.09E+02	U
HA	54	511606002	5/15/2020	Sb-124	-9.19E+00	8.69E+00	2.56E+01	U
HA	54	511606002	5/15/2020	Sb-125	-5.95E+00	9.76E+00	3.18E+01	U
HA	54	511606002	5/15/2020	Se-75	-7.65E-01	5.10E+00	1.64E+01	U
HA	54	511606002	5/15/2020	Th-228	-9.51E-01	9.47E+00	2.70E+01	U
HA	54	511606002	5/15/2020	Th-230	-3.23E+00	1.14E+01	3.13E+01	U
HA	54	511606002	5/15/2020	Tl-208	2.10E+01	8.02E+00	1.16E+01	UI
HA	54	511606002	5/15/2020	Zn-65	-1.66E+00	8.36E+00	2.70E+01	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
HA	54	511606002	5/15/2020	Zr-95	-8.69E+00	6.79E+00	2.08E+01	U
HA	54	528387002	11/21/2020	Ac-228	1.01E+01	1.45E+01	4.59E+01	U
HA	54	528387002	11/21/2020	Ag-108m	-1.55E+00	2.13E+00	6.88E+00	U
HA	54	528387002	11/21/2020	Ag-110m	2.35E+00	3.49E+00	1.18E+01	U
HA	54	528387002	11/21/2020	Ba-140	-1.88E+01	1.45E+01	4.17E+01	U
HA	54	528387002	11/21/2020	Be-7	2.06E+01	2.26E+01	7.82E+01	U
HA	54	528387002	11/21/2020	Bi-214	1.15E+01	1.26E+01	1.54E+01	U
HA	54	528387002	11/21/2020	Ce-141	-3.06E+00	3.91E+00	1.24E+01	U
HA	54	528387002	11/21/2020	Ce-144	-1.15E+01	1.30E+01	4.11E+01	U
HA	54	528387002	11/21/2020	Co-57	-9.95E-01	1.67E+00	5.41E+00	U
HA	54	528387002	11/21/2020	Co-58	-3.00E+00	2.81E+00	7.44E+00	U
HA	54	528387002	11/21/2020	Co-60	-6.50E-01	2.80E+00	7.90E+00	U
HA	54	528387002	11/21/2020	Cr-51	-1.19E+01	2.49E+01	7.58E+01	U
HA	54	528387002	11/21/2020	Cs-134	7.63E-01	2.61E+00	8.68E+00	U
HA	54	528387002	11/21/2020	Cs-137	1.38E+00	2.40E+00	8.18E+00	U
HA	54	528387002	11/21/2020	Fe-59	-9.93E+00	6.46E+00	1.76E+01	U
HA	54	528387002	11/21/2020	I-131	-2.61E+00	6.81E+00	1.96E+01	U
HA	54	528387002	11/21/2020	K-40	1.89E+03	1.50E+02	7.92E+01	
HA	54	528387002	11/21/2020	La-140	4.26E+00	4.84E+00	1.63E+01	U
HA	54	528387002	11/21/2020	Mn-54	5.57E+00	3.00E+00	1.01E+01	U
HA	54	528387002	11/21/2020	Nb-95	-6.35E+00	3.47E+00	8.10E+00	U
HA	54	528387002	11/21/2020	Pb-212	3.25E+00	5.90E+00	1.58E+01	U
HA	54	528387002	11/21/2020	Pb-214	5.61E-01	1.33E+01	1.99E+01	U
HA	54	528387002	11/21/2020	Ra-226	1.15E+01	1.26E+01	1.54E+01	U
HA	54	528387002	11/21/2020	Ru-103	2.82E+00	2.69E+00	9.31E+00	U
HA	54	528387002	11/21/2020	Ru-106	1.94E+01	2.01E+01	6.95E+01	U
HA	54	528387002	11/21/2020	Sb-124	4.34E+00	5.87E+00	2.10E+01	U
HA	54	528387002	11/21/2020	Sb-125	-5.35E+00	6.41E+00	2.05E+01	U
HA	54	528387002	11/21/2020	Se-75	-3.74E-01	3.40E+00	9.75E+00	U
HA	54	528387002	11/21/2020	Th-228	3.25E+00	5.90E+00	1.58E+01	U
HA	54	528387002	11/21/2020	Th-230	1.15E+01	1.26E+01	1.54E+01	U
HA	54	528387002	11/21/2020	Tl-208	0.00E+00	5.25E+00	6.70E+00	U
HA	54	528387002	11/21/2020	Zn-65	-5.86E+00	5.77E+00	1.73E+01	U
HA	54	528387002	11/21/2020	Zr-95	-1.57E+00	4.11E+00	1.29E+01	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
MU	06	511611001	5/14/2020	Ac-228	3.28E+00	1.33E+01	2.21E+01	U
MU	06	511611001	5/14/2020	Ag-108m	1.22E+00	1.63E+00	5.35E+00	U
MU	06	511611001	5/14/2020	Ag-110m	-3.26E-01	2.59E+00	8.45E+00	U
MU	06	511611001	5/14/2020	Ba-140	7.49E+00	1.18E+01	3.84E+01	U
MU	06	511611001	5/14/2020	Be-7	4.42E+01	2.75E+01	5.18E+01	U
MU	06	511611001	5/14/2020	Bi-214	-8.39E+00	4.88E+00	1.25E+01	U
MU	06	511611001	5/14/2020	Ce-141	-1.37E+01	4.92E+00	1.01E+01	U
MU	06	511611001	5/14/2020	Ce-144	-1.09E+01	1.05E+01	3.39E+01	U
MU	06	511611001	5/14/2020	Co-57	2.55E+00	1.95E+00	4.34E+00	U
MU	06	511611001	5/14/2020	Co-58	-1.67E+00	1.80E+00	5.43E+00	U
MU	06	511611001	5/14/2020	Co-60	-6.32E-01	1.75E+00	5.69E+00	U
MU	06	511611001	5/14/2020	Cr-51	-1.55E+01	1.85E+01	5.74E+01	U
MU	06	511611001	5/14/2020	Cs-134	-4.46E-01	2.07E+00	6.54E+00	U
MU	06	511611001	5/14/2020	Cs-137	4.38E-01	1.65E+00	5.62E+00	U
MU	06	511611001	5/14/2020	Fe-59	5.27E+00	5.65E+00	1.45E+01	U
MU	06	511611001	5/14/2020	I-131	-1.11E+00	4.94E+00	1.59E+01	U
MU	06	511611001	5/14/2020	K-40	1.34E+03	1.03E+02	6.37E+01	
MU	06	511611001	5/14/2020	La-140	-1.06E+01	5.09E+00	1.13E+01	U
MU	06	511611001	5/14/2020	Mn-54	-1.22E+00	1.74E+00	5.41E+00	U
MU	06	511611001	5/14/2020	Nb-95	4.22E+00	1.99E+00	6.61E+00	U
MU	06	511611001	5/14/2020	Pb-212	-5.65E+00	4.45E+00	1.25E+01	U
MU	06	511611001	5/14/2020	Pb-214	1.75E+00	6.58E+00	1.47E+01	U
MU	06	511611001	5/14/2020	Ra-226	-8.39E+00	4.88E+00	1.25E+01	U
MU	06	511611001	5/14/2020	Ru-103	-1.04E+00	2.43E+00	6.63E+00	U
MU	06	511611001	5/14/2020	Ru-106	9.84E+00	1.50E+01	5.19E+01	U
MU	06	511611001	5/14/2020	Sb-124	4.77E+00	4.03E+00	1.44E+01	U
MU	06	511611001	5/14/2020	Sb-125	-4.53E+00	5.04E+00	1.52E+01	U
MU	06	511611001	5/14/2020	Se-75	3.34E+00	3.16E+00	7.75E+00	U
MU	06	511611001	5/14/2020	Th-228	-5.65E+00	4.45E+00	1.25E+01	U
MU	06	511611001	5/14/2020	Th-230	-8.39E+00	4.88E+00	1.25E+01	U
MU	06	511611001	5/14/2020	Tl-208	1.69E+00	4.83E+00	5.55E+00	U
MU	06	511611001	5/14/2020	Zn-65	-5.96E+00	4.88E+00	1.38E+01	U
MU	06	511611001	5/14/2020	Zr-95	-9.81E-01	3.45E+00	1.13E+01	U
MU	06	529883001	12/9/2020	Ac-228	9.62E+00	1.06E+01	2.28E+01	U
MU	06	529883001	12/9/2020	Ag-108m	1.83E+00	1.13E+00	3.75E+00	U
MU	06	529883001	12/9/2020	Ag-110m	-1.15E+00	1.65E+00	5.24E+00	U
MU	06	529883001	12/9/2020	Ba-140	-1.17E+01	7.05E+00	1.89E+01	U
MU	06	529883001	12/9/2020	Be-7	2.66E+01	1.29E+01	4.10E+01	U
MU	06	529883001	12/9/2020	Bi-214	1.16E+01	5.60E+00	1.16E+01	U
MU	06	529883001	12/9/2020	Ce-141	3.56E+00	3.41E+00	6.09E+00	U
MU	06	529883001	12/9/2020	Ce-144	4.59E+00	7.70E+00	2.44E+01	U
MU	06	529883001	12/9/2020	Co-57	6.23E-01	9.84E-01	3.12E+00	U
MU	06	529883001	12/9/2020	Co-58	-7.05E-01	1.40E+00	4.22E+00	U
MU	06	529883001	12/9/2020	Co-60	1.33E+00	1.57E+00	5.40E+00	U
MU	06	529883001	12/9/2020	Cr-51	-1.46E+01	1.13E+01	3.39E+01	U
MU	06	529883001	12/9/2020	Cs-134	-2.44E-01	1.52E+00	4.77E+00	U
MU	06	529883001	12/9/2020	Cs-137	2.47E+00	1.87E+00	3.58E+00	U
MU	06	529883001	12/9/2020	Fe-59	-1.13E+00	2.98E+00	9.68E+00	U
MU	06	529883001	12/9/2020	I-131	-9.54E-01	1.91E+00	6.15E+00	U
MU	06	529883001	12/9/2020	K-40	1.07E+03	8.16E+01	4.92E+01	

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
MU	06	529883001	12/9/2020	La-140	3.98E+00	2.06E+00	7.40E+00	U
MU	06	529883001	12/9/2020	Mn-54	1.82E-01	1.25E+00	4.30E+00	U
MU	06	529883001	12/9/2020	Nb-95	-4.48E-02	1.40E+00	4.43E+00	U
MU	06	529883001	12/9/2020	Pb-212	2.68E+00	3.81E+00	8.92E+00	U
MU	06	529883001	12/9/2020	Pb-214	-1.85E+00	3.29E+00	1.03E+01	U
MU	06	529883001	12/9/2020	Ra-226	1.16E+01	5.60E+00	1.16E+01	U
MU	06	529883001	12/9/2020	Ru-103	6.00E-01	1.15E+00	3.83E+00	U
MU	06	529883001	12/9/2020	Ru-106	1.29E+01	1.26E+01	4.19E+01	U
MU	06	529883001	12/9/2020	Sb-124	1.05E+00	2.97E+00	9.99E+00	U
MU	06	529883001	12/9/2020	Sb-125	-5.00E+00	3.27E+00	9.13E+00	U
MU	06	529883001	12/9/2020	Se-75	-1.75E+00	1.56E+00	4.85E+00	U
MU	06	529883001	12/9/2020	Th-228	2.68E+00	3.81E+00	8.92E+00	U
MU	06	529883001	12/9/2020	Th-230	1.16E+01	5.60E+00	1.16E+01	U
MU	06	529883001	12/9/2020	Tl-208	2.65E+00	2.50E+00	4.11E+00	U
MU	06	529883001	12/9/2020	Zn-65	2.34E-01	2.85E+00	9.55E+00	U
MU	06	529883001	12/9/2020	Zr-95	-1.19E-01	2.75E+00	7.73E+00	U
MU	09	511593001	5/11/2020	Ac-228	-4.76E+01	2.33E+01	5.06E+01	U
MU	09	511593001	5/11/2020	Ag-108m	1.74E+00	2.58E+00	9.07E+00	U
MU	09	511593001	5/11/2020	Ag-110m	4.87E-01	5.67E+00	1.83E+01	U
MU	09	511593001	5/11/2020	Ba-140	1.39E+01	1.87E+01	6.54E+01	U
MU	09	511593001	5/11/2020	Be-7	1.68E+01	2.89E+01	1.01E+02	U
MU	09	511593001	5/11/2020	Bi-214	8.11E+00	8.78E+00	2.82E+01	U
MU	09	511593001	5/11/2020	Ce-141	9.74E-02	3.04E+00	1.04E+01	U
MU	09	511593001	5/11/2020	Ce-144	8.94E+00	1.13E+01	3.96E+01	U
MU	09	511593001	5/11/2020	Co-57	2.37E+00	1.44E+00	4.93E+00	U
MU	09	511593001	5/11/2020	Co-58	1.70E+00	3.44E+00	1.16E+01	U
MU	09	511593001	5/11/2020	Co-60	-1.32E+00	4.51E+00	1.43E+01	U
MU	09	511593001	5/11/2020	Cr-51	-9.22E+00	2.72E+01	8.45E+01	U
MU	09	511593001	5/11/2020	Cs-134	3.46E+00	3.12E+00	1.11E+01	U
MU	09	511593001	5/11/2020	Cs-137	-9.14E+00	5.40E+00	1.16E+01	U
MU	09	511593001	5/11/2020	Fe-59	7.43E+00	8.91E+00	3.16E+01	U
MU	09	511593001	5/11/2020	I-131	-5.22E+00	6.98E+00	2.04E+01	U
MU	09	511593001	5/11/2020	K-40	1.42E+03	1.36E+02	1.17E+02	
MU	09	511593001	5/11/2020	La-140	-5.92E+00	8.82E+00	2.53E+01	U
MU	09	511593001	5/11/2020	Mn-54	2.56E+00	3.53E+00	1.20E+01	U
MU	09	511593001	5/11/2020	Nb-95	3.45E+00	4.87E+00	9.32E+00	U
MU	09	511593001	5/11/2020	Pb-212	8.73E-01	5.20E+00	1.45E+01	U
MU	09	511593001	5/11/2020	Pb-214	-7.82E-02	8.51E+00	2.48E+01	U
MU	09	511593001	5/11/2020	Ra-226	8.11E+00	8.78E+00	2.82E+01	U
MU	09	511593001	5/11/2020	Ru-103	-1.41E+00	2.97E+00	9.63E+00	U
MU	09	511593001	5/11/2020	Ru-106	1.09E+01	2.96E+01	9.13E+01	U
MU	09	511593001	5/11/2020	Sb-124	1.30E+00	1.02E+01	3.32E+01	U
MU	09	511593001	5/11/2020	Sb-125	7.70E+00	7.57E+00	2.68E+01	U
MU	09	511593001	5/11/2020	Se-75	-3.04E-01	3.05E+00	9.85E+00	U
MU	09	511593001	5/11/2020	Th-228	8.73E-01	5.20E+00	1.45E+01	U
MU	09	511593001	5/11/2020	Th-230	8.11E+00	8.78E+00	2.82E+01	U
MU	09	511593001	5/11/2020	Tl-208	6.70E+00	3.69E+00	1.27E+01	U
MU	09	511593001	5/11/2020	Zn-65	1.57E+01	8.43E+00	3.04E+01	U
MU	09	511593001	5/11/2020	Zr-95	8.05E+00	6.08E+00	2.14E+01	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
MU	09	528380001	11/18/2020	Ac-228	9.87E+00	1.50E+01	2.93E+01	U
MU	09	528380001	11/18/2020	Ag-108m	-4.16E-01	1.27E+00	4.18E+00	U
MU	09	528380001	11/18/2020	Ag-110m	-2.32E-01	2.09E+00	7.06E+00	U
MU	09	528380001	11/18/2020	Ba-140	6.06E+00	1.06E+01	3.57E+01	U
MU	09	528380001	11/18/2020	Be-7	3.99E+01	2.90E+01	4.96E+01	U
MU	09	528380001	11/18/2020	Bi-214	0.00E+00	6.40E+00	8.96E+00	U
MU	09	528380001	11/18/2020	Ce-141	-5.79E+00	3.04E+00	8.21E+00	U
MU	09	528380001	11/18/2020	Ce-144	8.68E+00	8.50E+00	2.79E+01	U
MU	09	528380001	11/18/2020	Co-57	-5.02E-01	1.05E+00	3.36E+00	U
MU	09	528380001	11/18/2020	Co-58	-3.22E+00	1.72E+00	4.04E+00	U
MU	09	528380001	11/18/2020	Co-60	9.36E-01	1.60E+00	5.47E+00	U
MU	09	528380001	11/18/2020	Cr-51	1.65E+00	1.38E+01	4.75E+01	U
MU	09	528380001	11/18/2020	Cs-134	-4.74E-01	1.87E+00	5.86E+00	U
MU	09	528380001	11/18/2020	Cs-137	-2.51E+00	2.32E+00	6.40E+00	U
MU	09	528380001	11/18/2020	Fe-59	-5.44E+00	3.93E+00	1.11E+01	U
MU	09	528380001	11/18/2020	I-131	-2.35E+00	5.98E+00	1.69E+01	U
MU	09	528380001	11/18/2020	K-40	1.58E+03	1.05E+02	4.64E+01	
MU	09	528380001	11/18/2020	La-140	8.56E+00	6.49E+00	1.47E+01	U
MU	09	528380001	11/18/2020	Mn-54	-8.95E-01	1.73E+00	5.27E+00	U
MU	09	528380001	11/18/2020	Nb-95	3.93E+00	1.90E+00	6.14E+00	U
MU	09	528380001	11/18/2020	Pb-212	2.11E+01	4.33E+00	8.26E+00	
MU	09	528380001	11/18/2020	Pb-214	2.01E+01	6.96E+00	9.48E+00	
MU	09	528380001	11/18/2020	Ra-226	0.00E+00	6.40E+00	8.96E+00	U
MU	09	528380001	11/18/2020	Ru-103	4.09E-01	1.71E+00	5.72E+00	U
MU	09	528380001	11/18/2020	Ru-106	8.80E+00	1.33E+01	4.46E+01	U
MU	09	528380001	11/18/2020	Sb-124	1.05E+00	3.49E+00	1.16E+01	U
MU	09	528380001	11/18/2020	Sb-125	-7.31E+00	4.23E+00	1.18E+01	U
MU	09	528380001	11/18/2020	Se-75	-4.50E-01	2.11E+00	6.52E+00	U
MU	09	528380001	11/18/2020	Th-228	2.11E+01	4.33E+00	8.26E+00	
MU	09	528380001	11/18/2020	Th-230	0.00E+00	6.40E+00	8.96E+00	U
MU	09	528380001	11/18/2020	Tl-208	3.77E+00	3.02E+00	4.72E+00	U
MU	09	528380001	11/18/2020	Zn-65	2.62E+00	3.55E+00	1.22E+01	U
MU	09	528380001	11/18/2020	Zr-95	-1.41E-01	3.36E+00	1.07E+01	U
MU	56	511611002	5/14/2020	Ac-228	-5.84E+00	9.05E+00	2.73E+01	U
MU	56	511611002	5/14/2020	Ag-108m	1.54E+00	1.46E+00	4.99E+00	U
MU	56	511611002	5/14/2020	Ag-110m	-4.12E+00	2.78E+00	7.33E+00	U
MU	56	511611002	5/14/2020	Ba-140	1.09E+01	1.14E+01	3.86E+01	U
MU	56	511611002	5/14/2020	Be-7	8.28E+01	2.90E+01	4.63E+01	
MU	56	511611002	5/14/2020	Bi-214	7.56E+00	6.35E+00	1.50E+01	U
MU	56	511611002	5/14/2020	Ce-141	-8.20E+00	3.93E+00	8.77E+00	U
MU	56	511611002	5/14/2020	Ce-144	-3.39E+00	9.00E+00	2.89E+01	U
MU	56	511611002	5/14/2020	Co-57	-1.07E-01	1.16E+00	3.79E+00	U
MU	56	511611002	5/14/2020	Co-58	3.32E+00	2.21E+00	7.30E+00	U
MU	56	511611002	5/14/2020	Co-60	1.90E+00	2.46E+00	7.55E+00	U
MU	56	511611002	5/14/2020	Cr-51	8.56E+00	1.77E+01	6.11E+01	U
MU	56	511611002	5/14/2020	Cs-134	3.96E+00	2.01E+00	6.65E+00	U
MU	56	511611002	5/14/2020	Cs-137	-8.07E-01	2.25E+00	6.58E+00	U
MU	56	511611002	5/14/2020	Fe-59	-1.87E-01	4.04E+00	1.34E+01	U
MU	56	511611002	5/14/2020	I-131	9.34E+00	4.93E+00	1.64E+01	U
MU	56	511611002	5/14/2020	K-40	1.41E+03	1.10E+02	5.80E+01	

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
MU	56	511611002	5/14/2020	La-140	-6.06E+00	5.09E+00	1.36E+01	U
MU	56	511611002	5/14/2020	Mn-54	1.35E+00	1.65E+00	5.81E+00	U
MU	56	511611002	5/14/2020	Nb-95	2.47E+00	2.04E+00	6.79E+00	U
MU	56	511611002	5/14/2020	Pb-212	3.10E+00	4.87E+00	1.19E+01	U
MU	56	511611002	5/14/2020	Pb-214	1.07E+01	8.02E+00	1.41E+01	U
MU	56	511611002	5/14/2020	Ra-226	7.56E+00	6.35E+00	1.50E+01	U
MU	56	511611002	5/14/2020	Ru-103	3.30E+00	2.52E+00	6.76E+00	U
MU	56	511611002	5/14/2020	Ru-106	-7.82E+00	1.56E+01	4.86E+01	U
MU	56	511611002	5/14/2020	Sb-124	-1.05E+00	4.00E+00	1.30E+01	U
MU	56	511611002	5/14/2020	Sb-125	-2.01E+00	4.18E+00	1.35E+01	U
MU	56	511611002	5/14/2020	Se-75	8.30E-01	1.99E+00	6.32E+00	U
MU	56	511611002	5/14/2020	Th-228	3.10E+00	4.87E+00	1.19E+01	U
MU	56	511611002	5/14/2020	Th-230	7.56E+00	6.35E+00	1.50E+01	U
MU	56	511611002	5/14/2020	Tl-208	4.57E+00	3.75E+00	6.47E+00	U
MU	56	511611002	5/14/2020	Zn-65	1.96E+00	4.26E+00	1.45E+01	U
MU	56	511611002	5/14/2020	Zr-95	-5.30E+00	3.96E+00	1.08E+01	U
MU	56	529883002	12/9/2020	Ac-228	3.60E+01	2.13E+01	4.44E+01	U
MU	56	529883002	12/9/2020	Ag-108m	1.20E+00	1.78E+00	6.23E+00	U
MU	56	529883002	12/9/2020	Ag-110m	-1.01E+00	3.98E+00	1.05E+01	U
MU	56	529883002	12/9/2020	Ba-140	2.34E+01	1.21E+01	4.11E+01	U
MU	56	529883002	12/9/2020	Be-7	3.75E+01	3.10E+01	5.58E+01	U
MU	56	529883002	12/9/2020	Bi-214	-7.16E-01	6.92E+00	2.15E+01	U
MU	56	529883002	12/9/2020	Ce-141	7.27E+00	4.99E+00	1.12E+01	U
MU	56	529883002	12/9/2020	Ce-144	-1.78E+00	1.27E+01	4.19E+01	U
MU	56	529883002	12/9/2020	Co-57	2.03E+00	1.69E+00	5.62E+00	U
MU	56	529883002	12/9/2020	Co-58	-2.94E+00	2.69E+00	7.59E+00	U
MU	56	529883002	12/9/2020	Co-60	3.37E+00	2.97E+00	1.06E+01	U
MU	56	529883002	12/9/2020	Cr-51	1.09E+01	2.14E+01	6.87E+01	U
MU	56	529883002	12/9/2020	Cs-134	7.38E+00	3.15E+00	1.05E+01	U
MU	56	529883002	12/9/2020	Cs-137	-2.75E+00	3.06E+00	7.98E+00	U
MU	56	529883002	12/9/2020	Fe-59	-2.29E+00	5.65E+00	1.60E+01	U
MU	56	529883002	12/9/2020	I-131	-5.04E+00	4.01E+00	1.08E+01	U
MU	56	529883002	12/9/2020	K-40	1.28E+03	1.20E+02	8.05E+01	
MU	56	529883002	12/9/2020	La-140	-6.50E+00	4.61E+00	1.13E+01	U
MU	56	529883002	12/9/2020	Mn-54	6.77E-01	2.68E+00	8.83E+00	U
MU	56	529883002	12/9/2020	Nb-95	-3.02E+00	2.81E+00	8.10E+00	U
MU	56	529883002	12/9/2020	Pb-212	9.29E-01	7.11E+00	1.54E+01	U
MU	56	529883002	12/9/2020	Pb-214	1.28E+01	9.82E+00	2.26E+01	U
MU	56	529883002	12/9/2020	Ra-226	-7.16E-01	6.92E+00	2.15E+01	U
MU	56	529883002	12/9/2020	Ru-103	-3.19E+00	3.06E+00	7.20E+00	U
MU	56	529883002	12/9/2020	Ru-106	8.39E+00	1.75E+01	6.00E+01	U
MU	56	529883002	12/9/2020	Sb-124	5.12E+00	5.81E+00	2.10E+01	U
MU	56	529883002	12/9/2020	Sb-125	2.69E+00	5.65E+00	1.96E+01	U
MU	56	529883002	12/9/2020	Se-75	3.06E+00	2.65E+00	8.64E+00	U
MU	56	529883002	12/9/2020	Th-228	9.29E-01	7.11E+00	1.54E+01	U
MU	56	529883002	12/9/2020	Th-230	-7.16E-01	6.92E+00	2.15E+01	U
MU	56	529883002	12/9/2020	Tl-208	-1.19E+00	3.11E+00	9.54E+00	U
MU	56	529883002	12/9/2020	Zn-65	-3.09E+00	6.44E+00	1.81E+01	U
MU	56	529883002	12/9/2020	Zr-95	-1.23E+00	4.10E+00	1.14E+01	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
MU	59	511593002	5/18/2020	Ac-228	-3.92E+01	2.94E+01	7.94E+01	U
MU	59	511593002	5/18/2020	Ag-108m	-2.18E-01	5.00E+00	1.53E+01	U
MU	59	511593002	5/18/2020	Ag-110m	-2.23E+00	7.58E+00	2.37E+01	U
MU	59	511593002	5/18/2020	Ba-140	-5.62E+00	2.09E+01	6.85E+01	U
MU	59	511593002	5/18/2020	Be-7	3.23E+02	1.44E+02	1.21E+02	
MU	59	511593002	5/18/2020	Bi-214	2.44E+01	2.60E+01	4.40E+01	U
MU	59	511593002	5/18/2020	Ce-141	-4.65E+00	6.66E+00	2.12E+01	U
MU	59	511593002	5/18/2020	Ce-144	-1.26E+01	2.44E+01	7.90E+01	U
MU	59	511593002	5/18/2020	Co-57	2.95E+00	3.20E+00	1.08E+01	U
MU	59	511593002	5/18/2020	Co-58	1.07E+00	4.86E+00	1.60E+01	U
MU	59	511593002	5/18/2020	Co-60	1.05E+01	6.54E+00	2.29E+01	U
MU	59	511593002	5/18/2020	Cr-51	-3.99E+01	4.30E+01	1.25E+02	U
MU	59	511593002	5/18/2020	Cs-134	1.02E+01	6.10E+00	2.06E+01	U
MU	59	511593002	5/18/2020	Cs-137	6.76E+00	5.77E+00	1.96E+01	U
MU	59	511593002	5/18/2020	Fe-59	-2.09E+00	1.00E+01	3.33E+01	U
MU	59	511593002	5/18/2020	I-131	6.39E+00	6.05E+00	2.11E+01	U
MU	59	511593002	5/18/2020	K-40	1.54E+03	1.73E+02	1.11E+02	
MU	59	511593002	5/18/2020	La-140	-9.71E+00	7.88E+00	2.10E+01	U
MU	59	511593002	5/18/2020	Mn-54	5.92E-01	6.41E+00	2.08E+01	U
MU	59	511593002	5/18/2020	Nb-95	-1.08E-01	5.23E+00	1.70E+01	U
MU	59	511593002	5/18/2020	Pb-212	8.19E+00	1.46E+01	2.39E+01	U
MU	59	511593002	5/18/2020	Pb-214	-8.20E+00	1.70E+01	4.12E+01	U
MU	59	511593002	5/18/2020	Ra-226	2.44E+01	2.60E+01	4.40E+01	U
MU	59	511593002	5/18/2020	Ru-103	-4.50E+00	4.50E+00	1.38E+01	U
MU	59	511593002	5/18/2020	Ru-106	2.38E+01	4.38E+01	1.49E+02	U
MU	59	511593002	5/18/2020	Sb-124	1.09E+01	1.18E+01	4.17E+01	U
MU	59	511593002	5/18/2020	Sb-125	-1.08E+01	1.25E+01	3.98E+01	U
MU	59	511593002	5/18/2020	Se-75	-1.12E+01	6.48E+00	1.71E+01	U
MU	59	511593002	5/18/2020	Th-228	8.19E+00	1.46E+01	2.39E+01	U
MU	59	511593002	5/18/2020	Th-230	2.44E+01	2.60E+01	4.40E+01	U
MU	59	511593002	5/18/2020	Tl-208	-9.26E+00	8.39E+00	2.24E+01	U
MU	59	511593002	5/18/2020	Zn-65	-8.96E+00	1.20E+01	3.78E+01	U
MU	59	511593002	5/18/2020	Zr-95	-6.13E+00	9.18E+00	2.80E+01	U
MU	59	528380002	11/18/2020	Ac-228	-9.66E+00	8.86E+00	2.51E+01	U
MU	59	528380002	11/18/2020	Ag-108m	3.33E-01	1.32E+00	4.48E+00	U
MU	59	528380002	11/18/2020	Ag-110m	9.52E-02	2.08E+00	6.77E+00	U
MU	59	528380002	11/18/2020	Ba-140	9.55E+00	1.14E+01	3.89E+01	U
MU	59	528380002	11/18/2020	Be-7	6.97E+01	2.35E+01	5.14E+01	
MU	59	528380002	11/18/2020	Bi-214	0.00E+00	6.76E+00	1.43E+01	U
MU	59	528380002	11/18/2020	Ce-141	2.26E+00	3.04E+00	9.12E+00	U
MU	59	528380002	11/18/2020	Ce-144	-5.11E+00	9.60E+00	3.01E+01	U
MU	59	528380002	11/18/2020	Co-57	6.17E-01	1.28E+00	4.17E+00	U
MU	59	528380002	11/18/2020	Co-58	7.92E-01	1.68E+00	5.60E+00	U
MU	59	528380002	11/18/2020	Co-60	-8.88E-01	1.41E+00	4.47E+00	U
MU	59	528380002	11/18/2020	Cr-51	-5.69E+00	1.60E+01	5.38E+01	U
MU	59	528380002	11/18/2020	Cs-134	-1.76E+00	1.62E+00	4.70E+00	U
MU	59	528380002	11/18/2020	Cs-137	4.60E-01	1.66E+00	4.99E+00	U
MU	59	528380002	11/18/2020	Fe-59	-2.73E+00	3.88E+00	1.16E+01	U
MU	59	528380002	11/18/2020	I-131	1.55E+00	4.88E+00	1.68E+01	U
MU	59	528380002	11/18/2020	K-40	1.13E+03	8.87E+01	4.65E+01	

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
MU	59	528380002	11/18/2020	La-140	-9.59E+00	4.23E+00	8.47E+00	U
MU	59	528380002	11/18/2020	Mn-54	-1.08E+00	1.39E+00	4.18E+00	U
MU	59	528380002	11/18/2020	Nb-95	-2.12E+00	2.10E+00	5.42E+00	U
MU	59	528380002	11/18/2020	Pb-212	0.00E+00	5.93E+00	1.08E+01	U
MU	59	528380002	11/18/2020	Pb-214	5.36E+00	5.92E+00	1.27E+01	U
MU	59	528380002	11/18/2020	Ra-226	0.00E+00	6.76E+00	1.43E+01	U
MU	59	528380002	11/18/2020	Ru-103	5.91E-02	1.67E+00	5.62E+00	U
MU	59	528380002	11/18/2020	Ru-106	1.56E-01	1.19E+01	3.95E+01	U
MU	59	528380002	11/18/2020	Sb-124	4.91E+00	3.66E+00	1.32E+01	U
MU	59	528380002	11/18/2020	Sb-125	-5.09E-01	4.00E+00	1.34E+01	U
MU	59	528380002	11/18/2020	Se-75	5.73E+00	2.61E+00	6.90E+00	U
MU	59	528380002	11/18/2020	Th-228	0.00E+00	5.93E+00	1.08E+01	U
MU	59	528380002	11/18/2020	Th-230	0.00E+00	6.76E+00	1.43E+01	U
MU	59	528380002	11/18/2020	Tl-208	3.20E-01	2.95E+00	3.82E+00	U
MU	59	528380002	11/18/2020	Zn-65	-4.22E+00	3.90E+00	1.11E+01	U
MU	59	528380002	11/18/2020	Zr-95	4.68E+00	2.98E+00	1.00E+01	U
MS	06	511611004	5/14/2020	Sr-89	-1.12E+02	3.30E+01	8.76E+01	U
MS	06	511611004	5/14/2020	Sr-90	-1.29E+02	3.88E+01	1.53E+02	U
MS	06	529883004	12/9/2020	Sr-89	-1.17E+01	5.46E+01	1.30E+02	U
MS	06	529883004	12/9/2020	Sr-90	-3.80E+01	3.95E+01	1.40E+02	U
MS	56	511611005	5/14/2020	Sr-89	7.63E+00	2.81E+01	6.94E+01	U
MS	56	511611005	5/14/2020	Sr-90	-1.33E+01	1.85E+01	6.47E+01	U
MS	56	529883005	12/9/2020	Sr-89	-1.12E+02	3.53E+01	9.00E+01	U
MS	56	529883005	12/9/2020	Sr-90	6.71E+01	3.80E+01	1.03E+02	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
SE	02	511608001	5/14/2020	Ac-228	1.69E+03	1.31E+02	9.68E+01	
SE	02	511608001	5/14/2020	Ag-108m	6.01E+00	6.40E+00	2.18E+01	U
SE	02	511608001	5/14/2020	Ag-110m	-1.18E+00	1.14E+01	3.32E+01	U
SE	02	511608001	5/14/2020	Ba-140	5.68E+01	4.48E+01	1.33E+02	U
SE	02	511608001	5/14/2020	Be-7	-6.64E+01	6.49E+01	2.06E+02	U
SE	02	511608001	5/14/2020	Bi-214	1.09E+03	6.52E+01	5.15E+01	
SE	02	511608001	5/14/2020	Ce-141	-7.92E+00	1.35E+01	4.59E+01	U
SE	02	511608001	5/14/2020	Ce-144	-1.08E+02	5.44E+01	1.61E+02	U
SE	02	511608001	5/14/2020	Co-57	-1.05E+01	7.05E+00	2.13E+01	U
SE	02	511608001	5/14/2020	Co-58	-1.09E+01	7.90E+00	2.41E+01	U
SE	02	511608001	5/14/2020	Co-60	-1.56E+00	7.53E+00	2.50E+01	U
SE	02	511608001	5/14/2020	Cr-51	-2.87E+01	6.77E+01	2.36E+02	U
SE	02	511608001	5/14/2020	Cs-134	0.00E+00	2.33E+01	3.78E+01	U
SE	02	511608001	5/14/2020	Cs-137	5.58E+00	7.90E+00	2.76E+01	U
SE	02	511608001	5/14/2020	Fe-59	-2.14E+01	1.62E+01	5.03E+01	U
SE	02	511608001	5/14/2020	I-131	1.52E+01	1.33E+01	4.60E+01	U
SE	02	511608001	5/14/2020	K-40	1.49E+04	9.86E+02	2.40E+02	
SE	02	511608001	5/14/2020	La-140	-1.79E+01	1.38E+01	3.99E+01	U
SE	02	511608001	5/14/2020	Mn-54	2.64E+01	1.24E+01	2.55E+01	UI
SE	02	511608001	5/14/2020	Nb-95	2.93E+01	1.40E+01	3.08E+01	U
SE	02	511608001	5/14/2020	Pb-212	1.86E+03	9.60E+01	4.40E+01	
SE	02	511608001	5/14/2020	Pb-214	1.37E+03	7.81E+01	5.46E+01	
SE	02	511608001	5/14/2020	Ra-226	1.09E+03	6.52E+01	5.15E+01	
SE	02	511608001	5/14/2020	Ru-103	-1.37E+01	9.18E+00	2.40E+01	U
SE	02	511608001	5/14/2020	Ru-106	-5.73E+01	6.54E+01	2.19E+02	U
SE	02	511608001	5/14/2020	Sb-124	4.77E+00	1.78E+01	5.12E+01	U
SE	02	511608001	5/14/2020	Sb-125	1.14E+01	1.99E+01	6.82E+01	U
SE	02	511608001	5/14/2020	Se-75	-1.20E+01	1.02E+01	3.29E+01	U
SE	02	511608001	5/14/2020	Th-228	1.86E+03	9.60E+01	4.40E+01	
SE	02	511608001	5/14/2020	Th-230	1.09E+03	6.52E+01	5.15E+01	
SE	02	511608001	5/14/2020	Tl-208	5.05E+02	3.02E+01	2.60E+01	
SE	02	511608001	5/14/2020	Zn-65	-2.03E+01	2.11E+01	5.86E+01	U
SE	02	511608001	5/14/2020	Zr-95	3.11E+01	1.80E+01	5.32E+01	U
SE	02	529874001	12/9/2020	Ac-228	1.33E+03	2.03E+02	2.32E+02	
SE	02	529874001	12/9/2020	Ag-108m	7.67E+00	1.55E+01	5.55E+01	U
SE	02	529874001	12/9/2020	Ag-110m	-2.04E+01	3.03E+01	9.22E+01	U
SE	02	529874001	12/9/2020	Ba-140	-1.60E+02	2.39E+02	7.82E+02	U
SE	02	529874001	12/9/2020	Be-7	-1.44E+02	2.00E+02	5.89E+02	U
SE	02	529874001	12/9/2020	Bi-214	9.88E+02	1.21E+02	9.49E+01	
SE	02	529874001	12/9/2020	Ce-141	-5.11E+01	3.84E+01	1.11E+02	U
SE	02	529874001	12/9/2020	Ce-144	-7.38E+01	9.22E+01	3.11E+02	U
SE	02	529874001	12/9/2020	Co-57	1.62E+00	1.10E+01	3.93E+01	U
SE	02	529874001	12/9/2020	Co-58	-4.22E+01	2.72E+01	7.27E+01	U
SE	02	529874001	12/9/2020	Co-60	3.96E+01	2.40E+01	8.53E+01	U
SE	02	529874001	12/9/2020	Cr-51	-4.35E+00	2.42E+02	7.90E+02	U
SE	02	529874001	12/9/2020	Cs-134	4.94E+01	2.91E+01	9.80E+01	U
SE	02	529874001	12/9/2020	Cs-137	8.63E+00	2.06E+01	6.43E+01	U
SE	02	529874001	12/9/2020	Fe-59	-5.61E+01	5.07E+01	1.51E+02	U
SE	02	529874001	12/9/2020	I-131	-1.69E+02	1.23E+02	3.87E+02	U
SE	02	529874001	12/9/2020	K-40	1.42E+04	1.05E+03	5.83E+02	

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
SE	02	529874001	12/9/2020	La-140	-3.46E+01	8.08E+01	2.50E+02	U
SE	02	529874001	12/9/2020	Mn-54	-1.29E+01	2.26E+01	7.05E+01	U
SE	02	529874001	12/9/2020	Nb-95	3.76E+01	2.81E+01	8.94E+01	U
SE	02	529874001	12/9/2020	Pb-212	1.38E+03	9.61E+01	9.06E+01	
SE	02	529874001	12/9/2020	Pb-214	1.18E+03	1.11E+02	3.21E+02	
SE	02	529874001	12/9/2020	Ra-226	9.88E+02	1.21E+02	9.49E+01	
SE	02	529874001	12/9/2020	Ru-103	-3.51E+00	2.17E+01	6.66E+01	U
SE	02	529874001	12/9/2020	Ru-106	-1.67E+01	1.74E+02	5.86E+02	U
SE	02	529874001	12/9/2020	Sb-124	-4.63E+01	5.23E+01	1.51E+02	U
SE	02	529874001	12/9/2020	Sb-125	-3.14E+01	4.43E+01	1.48E+02	U
SE	02	529874001	12/9/2020	Se-75	1.06E+01	2.52E+01	7.88E+01	U
SE	02	529874001	12/9/2020	Th-228	1.38E+03	9.61E+01	9.06E+01	
SE	02	529874001	12/9/2020	Th-230	9.88E+02	1.21E+02	9.49E+01	
SE	02	529874001	12/9/2020	Tl-208	5.24E+02	6.16E+01	6.10E+01	
SE	02	529874001	12/9/2020	Zn-65	-9.13E+01	5.42E+01	1.17E+02	U
SE	02	529874001	12/9/2020	Zr-95	8.62E+01	4.84E+01	1.66E+02	U
SE	07	511615001	5/11/2020	Ac-228	3.06E+02	6.40E+01	8.72E+01	
SE	07	511615001	5/11/2020	Ag-108m	-3.47E+00	5.38E+00	1.82E+01	U
SE	07	511615001	5/11/2020	Ag-110m	-1.34E+01	1.09E+01	3.15E+01	U
SE	07	511615001	5/11/2020	Ba-140	-2.62E+01	3.74E+01	1.22E+02	U
SE	07	511615001	5/11/2020	Be-7	-1.72E+01	5.17E+01	1.77E+02	U
SE	07	511615001	5/11/2020	Bi-214	2.79E+02	3.64E+01	4.46E+01	
SE	07	511615001	5/11/2020	Ce-141	-8.90E+00	1.10E+01	3.36E+01	U
SE	07	511615001	5/11/2020	Ce-144	3.79E+00	3.41E+01	1.20E+02	U
SE	07	511615001	5/11/2020	Co-57	2.82E-01	4.30E+00	1.52E+01	U
SE	07	511615001	5/11/2020	Co-58	-8.59E+00	7.17E+00	2.09E+01	U
SE	07	511615001	5/11/2020	Co-60	4.91E+00	8.01E+00	2.76E+01	U
SE	07	511615001	5/11/2020	Cr-51	6.60E+01	5.75E+01	2.07E+02	U
SE	07	511615001	5/11/2020	Cs-134	6.89E+00	8.55E+00	2.88E+01	U
SE	07	511615001	5/11/2020	Cs-137	-2.61E+00	6.89E+00	2.27E+01	U
SE	07	511615001	5/11/2020	Fe-59	1.32E+01	1.75E+01	6.13E+01	U
SE	07	511615001	5/11/2020	I-131	-3.51E+00	1.48E+01	5.21E+01	U
SE	07	511615001	5/11/2020	K-40	1.72E+04	1.06E+03	2.31E+02	
SE	07	511615001	5/11/2020	La-140	1.60E+00	1.38E+01	4.59E+01	U
SE	07	511615001	5/11/2020	Mn-54	-1.61E+00	6.91E+00	2.12E+01	U
SE	07	511615001	5/11/2020	Nb-95	-1.44E+01	9.07E+00	2.43E+01	U
SE	07	511615001	5/11/2020	Pb-212	3.60E+02	3.21E+01	3.85E+01	
SE	07	511615001	5/11/2020	Pb-214	3.26E+02	3.52E+01	4.57E+01	
SE	07	511615001	5/11/2020	Ra-226	2.79E+02	3.64E+01	4.46E+01	
SE	07	511615001	5/11/2020	Ru-103	6.32E+00	6.56E+00	2.31E+01	U
SE	07	511615001	5/11/2020	Ru-106	-5.48E+01	6.03E+01	1.91E+02	U
SE	07	511615001	5/11/2020	Sb-124	7.58E+00	1.22E+01	4.25E+01	U
SE	07	511615001	5/11/2020	Sb-125	3.47E+00	1.68E+01	5.92E+01	U
SE	07	511615001	5/11/2020	Se-75	7.73E+00	9.23E+00	2.85E+01	U
SE	07	511615001	5/11/2020	Th-228	3.60E+02	3.21E+01	3.85E+01	
SE	07	511615001	5/11/2020	Th-230	2.79E+02	3.64E+01	4.46E+01	
SE	07	511615001	5/11/2020	Tl-208	8.37E+01	1.77E+01	2.36E+01	
SE	07	511615001	5/11/2020	Zn-65	1.64E+01	2.05E+01	6.39E+01	U
SE	07	511615001	5/11/2020	Zr-95	4.17E+01	4.17E+01	4.61E+01	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
SE	07	528391001	11/19/2020	Ac-228	0.00E+00	1.25E+02	2.97E+02	U
SE	07	528391001	11/19/2020	Ag-108m	1.95E+01	1.02E+01	3.42E+01	U
SE	07	528391001	11/19/2020	Ag-110m	1.18E+01	2.00E+01	6.86E+01	U
SE	07	528391001	11/19/2020	Ba-140	3.94E+02	3.78E+02	7.24E+02	U
SE	07	528391001	11/19/2020	Be-7	1.33E+02	1.37E+02	4.65E+02	U
SE	07	528391001	11/19/2020	Bi-214	2.87E+02	5.06E+01	8.89E+01	
SE	07	528391001	11/19/2020	Ce-141	5.04E+01	5.76E+01	8.92E+01	U
SE	07	528391001	11/19/2020	Ce-144	1.20E+02	7.43E+01	2.53E+02	U
SE	07	528391001	11/19/2020	Co-57	-4.11E+00	7.65E+00	2.73E+01	U
SE	07	528391001	11/19/2020	Co-58	9.12E-01	1.45E+01	4.89E+01	U
SE	07	528391001	11/19/2020	Co-60	-1.87E+01	1.59E+01	4.62E+01	U
SE	07	528391001	11/19/2020	Cr-51	-7.46E+01	1.86E+02	6.17E+02	U
SE	07	528391001	11/19/2020	Cs-134	6.33E+00	1.47E+01	5.08E+01	U
SE	07	528391001	11/19/2020	Cs-137	-5.64E+00	1.20E+01	3.98E+01	U
SE	07	528391001	11/19/2020	Fe-59	3.77E+01	4.99E+01	1.69E+02	U
SE	07	528391001	11/19/2020	I-131	-9.56E+01	1.71E+02	5.54E+02	U
SE	07	528391001	11/19/2020	K-40	1.96E+04	1.26E+03	4.31E+02	
SE	07	528391001	11/19/2020	La-140	-3.39E+01	6.11E+01	1.84E+02	U
SE	07	528391001	11/19/2020	Mn-54	9.88E+00	1.38E+01	4.77E+01	U
SE	07	528391001	11/19/2020	Nb-95	-1.86E+00	1.76E+01	5.90E+01	U
SE	07	528391001	11/19/2020	Pb-212	3.89E+02	4.43E+01	6.50E+01	
SE	07	528391001	11/19/2020	Pb-214	2.66E+02	6.05E+01	8.18E+01	
SE	07	528391001	11/19/2020	Ra-226	2.87E+02	5.06E+01	8.89E+01	
SE	07	528391001	11/19/2020	Ru-103	-3.40E+01	2.03E+01	5.35E+01	U
SE	07	528391001	11/19/2020	Ru-106	3.34E+01	1.06E+02	3.71E+02	U
SE	07	528391001	11/19/2020	Sb-124	-1.81E+01	2.68E+01	7.61E+01	U
SE	07	528391001	11/19/2020	Sb-125	2.08E+01	2.92E+01	1.00E+02	U
SE	07	528391001	11/19/2020	Se-75	2.23E+01	1.61E+01	5.63E+01	U
SE	07	528391001	11/19/2020	Th-228	3.89E+02	4.43E+01	6.50E+01	
SE	07	528391001	11/19/2020	Th-230	2.87E+02	5.06E+01	8.89E+01	
SE	07	528391001	11/19/2020	Tl-208	8.14E+01	2.54E+01	3.63E+01	
SE	07	528391001	11/19/2020	Zn-65	-2.14E+01	4.29E+01	1.35E+02	U
SE	07	528391001	11/19/2020	Zr-95	2.31E+01	3.10E+01	1.08E+02	U
SE	08	511615002	5/11/2020	Ac-228	4.94E+02	7.47E+01	8.69E+01	
SE	08	511615002	5/11/2020	Ag-108m	-2.22E+00	4.76E+00	1.64E+01	U
SE	08	511615002	5/11/2020	Ag-110m	-4.79E+00	9.98E+00	3.11E+01	U
SE	08	511615002	5/11/2020	Ba-140	-4.29E+01	3.62E+01	1.13E+02	U
SE	08	511615002	5/11/2020	Be-7	5.89E+01	5.65E+01	1.99E+02	U
SE	08	511615002	5/11/2020	Bi-214	3.04E+02	3.43E+01	4.62E+01	
SE	08	511615002	5/11/2020	Ce-141	-2.24E+01	1.17E+01	3.24E+01	U
SE	08	511615002	5/11/2020	Ce-144	-3.14E+00	3.24E+01	1.13E+02	U
SE	08	511615002	5/11/2020	Co-57	5.07E+00	4.33E+00	1.51E+01	U
SE	08	511615002	5/11/2020	Co-58	7.52E+00	7.78E+00	2.41E+01	U
SE	08	511615002	5/11/2020	Co-60	4.58E+00	7.86E+00	2.73E+01	U
SE	08	511615002	5/11/2020	Cr-51	9.91E-01	5.80E+01	2.09E+02	U
SE	08	511615002	5/11/2020	Cs-134	0.00E+00	2.29E+01	3.14E+01	U
SE	08	511615002	5/11/2020	Cs-137	-4.34E+00	7.11E+00	2.20E+01	U
SE	08	511615002	5/11/2020	Fe-59	0.00E+00	6.89E+01	6.15E+01	U
SE	08	511615002	5/11/2020	I-131	-2.66E+01	1.51E+01	4.57E+01	U
SE	08	511615002	5/11/2020	K-40	2.36E+04	1.21E+03	1.75E+02	

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
SE	08	511615002	5/11/2020	La-140	2.31E+00	1.08E+01	3.26E+01	U
SE	08	511615002	5/11/2020	Mn-54	0.00E+00	1.14E+01	1.80E+01	U
SE	08	511615002	5/11/2020	Nb-95	-7.49E+00	9.28E+00	2.73E+01	U
SE	08	511615002	5/11/2020	Pb-212	4.06E+02	3.18E+01	4.01E+01	
SE	08	511615002	5/11/2020	Pb-214	2.71E+02	3.53E+01	4.61E+01	
SE	08	511615002	5/11/2020	Ra-226	3.04E+02	3.43E+01	4.62E+01	
SE	08	511615002	5/11/2020	Ru-103	-1.13E+01	7.32E+00	2.22E+01	U
SE	08	511615002	5/11/2020	Ru-106	7.58E+01	6.12E+01	2.11E+02	U
SE	08	511615002	5/11/2020	Sb-124	7.38E+00	1.43E+01	4.84E+01	U
SE	08	511615002	5/11/2020	Sb-125	1.73E+01	1.54E+01	5.47E+01	U
SE	08	511615002	5/11/2020	Se-75	1.41E+00	8.14E+00	2.71E+01	U
SE	08	511615002	5/11/2020	Th-228	4.06E+02	3.18E+01	4.01E+01	
SE	08	511615002	5/11/2020	Th-230	3.04E+02	3.43E+01	4.62E+01	
SE	08	511615002	5/11/2020	Tl-208	1.10E+02	1.62E+01	2.13E+01	
SE	08	511615002	5/11/2020	Zn-65	4.16E+01	2.24E+01	6.59E+01	U
SE	08	511615002	5/11/2020	Zr-95	-1.01E+01	1.41E+01	4.50E+01	U
SE	08	528391002	11/19/2020	Ac-228	4.15E+02	1.05E+02	1.59E+02	
SE	08	528391002	11/19/2020	Ag-108m	3.60E+00	8.91E+00	3.18E+01	U
SE	08	528391002	11/19/2020	Ag-110m	3.51E+01	3.04E+01	6.32E+01	U
SE	08	528391002	11/19/2020	Ba-140	1.22E+02	2.14E+02	7.53E+02	U
SE	08	528391002	11/19/2020	Be-7	-1.88E+01	1.15E+02	3.96E+02	U
SE	08	528391002	11/19/2020	Bi-214	2.45E+02	5.12E+01	7.36E+01	
SE	08	528391002	11/19/2020	Ce-141	-7.53E+01	3.32E+01	7.65E+01	U
SE	08	528391002	11/19/2020	Ce-144	9.60E+00	5.98E+01	2.13E+02	U
SE	08	528391002	11/19/2020	Co-57	6.67E+00	7.65E+00	2.77E+01	U
SE	08	528391002	11/19/2020	Co-58	2.97E+00	1.46E+01	4.85E+01	U
SE	08	528391002	11/19/2020	Co-60	-1.87E+01	1.59E+01	4.48E+01	U
SE	08	528391002	11/19/2020	Cr-51	5.81E+01	1.49E+02	5.48E+02	U
SE	08	528391002	11/19/2020	Cs-134	2.71E+01	2.88E+01	4.84E+01	U
SE	08	528391002	11/19/2020	Cs-137	-4.35E+00	1.19E+01	3.84E+01	U
SE	08	528391002	11/19/2020	Fe-59	-2.05E+00	4.42E+01	1.49E+02	U
SE	08	528391002	11/19/2020	I-131	1.88E+02	1.60E+02	5.80E+02	U
SE	08	528391002	11/19/2020	K-40	1.89E+04	1.18E+03	3.19E+02	
SE	08	528391002	11/19/2020	La-140	-1.40E+02	8.45E+01	1.42E+02	U
SE	08	528391002	11/19/2020	Mn-54	1.37E+01	1.46E+01	4.95E+01	U
SE	08	528391002	11/19/2020	Nb-95	0.00E+00	3.68E+01	5.02E+01	U
SE	08	528391002	11/19/2020	Pb-212	4.78E+02	4.55E+01	5.47E+01	
SE	08	528391002	11/19/2020	Pb-214	1.77E+02	6.19E+01	7.90E+01	
SE	08	528391002	11/19/2020	Ra-226	2.45E+02	5.12E+01	7.36E+01	
SE	08	528391002	11/19/2020	Ru-103	1.46E+01	1.48E+01	5.32E+01	U
SE	08	528391002	11/19/2020	Ru-106	-3.97E+01	1.00E+02	3.26E+02	U
SE	08	528391002	11/19/2020	Sb-124	-5.73E+01	3.71E+01	7.77E+01	U
SE	08	528391002	11/19/2020	Sb-125	2.27E+01	2.84E+01	1.02E+02	U
SE	08	528391002	11/19/2020	Se-75	-2.12E+00	1.50E+01	4.54E+01	U
SE	08	528391002	11/19/2020	Th-228	4.78E+02	4.55E+01	5.47E+01	
SE	08	528391002	11/19/2020	Th-230	2.45E+02	5.12E+01	7.36E+01	
SE	08	528391002	11/19/2020	Tl-208	1.23E+02	2.99E+01	3.70E+01	
SE	08	528391002	11/19/2020	Zn-65	1.12E+01	3.98E+01	1.04E+02	U
SE	08	528391002	11/19/2020	Zr-95	1.26E+01	3.09E+01	1.05E+02	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
SE	52	511608002	5/14/2020	Ac-228	1.23E+03	1.28E+02	1.21E+02	
SE	52	511608002	5/14/2020	Ag-108m	-2.38E+00	7.20E+00	2.49E+01	U
SE	52	511608002	5/14/2020	Ag-110m	-6.08E+00	1.28E+01	4.29E+01	U
SE	52	511608002	5/14/2020	Ba-140	9.40E+01	7.90E+01	1.63E+02	U
SE	52	511608002	5/14/2020	Be-7	-2.57E+00	7.20E+01	2.50E+02	U
SE	52	511608002	5/14/2020	Bi-214	7.69E+02	5.82E+01	5.89E+01	
SE	52	511608002	5/14/2020	Ce-141	-1.76E+01	1.44E+01	4.36E+01	U
SE	52	511608002	5/14/2020	Ce-144	6.67E+01	4.69E+01	1.66E+02	U
SE	52	511608002	5/14/2020	Co-57	9.40E+00	5.85E+00	2.06E+01	U
SE	52	511608002	5/14/2020	Co-58	2.04E+01	1.03E+01	3.50E+01	U
SE	52	511608002	5/14/2020	Co-60	-1.51E+01	1.13E+01	3.16E+01	U
SE	52	511608002	5/14/2020	Cr-51	-4.72E+01	7.27E+01	2.56E+02	U
SE	52	511608002	5/14/2020	Cs-134	0.00E+00	2.18E+01	4.27E+01	U
SE	52	511608002	5/14/2020	Cs-137	-1.86E+01	1.07E+01	2.94E+01	U
SE	52	511608002	5/14/2020	Fe-59	-1.45E+01	2.18E+01	6.96E+01	U
SE	52	511608002	5/14/2020	I-131	-9.02E+00	1.55E+01	5.38E+01	U
SE	52	511608002	5/14/2020	K-40	1.46E+04	8.63E+02	3.05E+02	
SE	52	511608002	5/14/2020	La-140	-3.10E+00	1.74E+01	4.98E+01	U
SE	52	511608002	5/14/2020	Mn-54	6.63E+00	9.70E+00	3.33E+01	U
SE	52	511608002	5/14/2020	Nb-95	2.04E+01	1.18E+01	3.70E+01	U
SE	52	511608002	5/14/2020	Pb-212	1.17E+03	6.30E+01	4.81E+01	
SE	52	511608002	5/14/2020	Pb-214	9.00E+02	6.26E+01	6.40E+01	
SE	52	511608002	5/14/2020	Ra-226	7.69E+02	5.82E+01	5.89E+01	
SE	52	511608002	5/14/2020	Ru-103	6.05E+00	9.36E+00	3.28E+01	U
SE	52	511608002	5/14/2020	Ru-106	5.90E+01	8.12E+01	2.78E+02	U
SE	52	511608002	5/14/2020	Sb-124	3.02E+01	1.93E+01	6.95E+01	U
SE	52	511608002	5/14/2020	Sb-125	-1.97E+01	2.14E+01	7.07E+01	U
SE	52	511608002	5/14/2020	Se-75	8.72E+00	1.11E+01	3.48E+01	U
SE	52	511608002	5/14/2020	Th-228	1.17E+03	6.30E+01	4.81E+01	
SE	52	511608002	5/14/2020	Th-230	7.69E+02	5.82E+01	5.89E+01	
SE	52	511608002	5/14/2020	Tl-208	3.69E+02	2.67E+01	2.85E+01	
SE	52	511608002	5/14/2020	Zn-65	-3.09E+01	2.53E+01	6.36E+01	U
SE	52	511608002	5/14/2020	Zr-95	-2.29E+01	2.07E+01	6.18E+01	U
SE	52	529874002	12/9/2020	Ac-228	4.32E+03	3.39E+02	2.24E+02	
SE	52	529874002	12/9/2020	Ag-108m	-3.69E+00	1.77E+01	6.34E+01	U
SE	52	529874002	12/9/2020	Ag-110m	5.60E-01	2.85E+01	9.51E+01	U
SE	52	529874002	12/9/2020	Ba-140	7.35E+01	2.71E+02	9.66E+02	U
SE	52	529874002	12/9/2020	Be-7	3.90E+02	5.15E+02	6.97E+02	U
SE	52	529874002	12/9/2020	Bi-214	2.39E+03	1.66E+02	1.46E+02	
SE	52	529874002	12/9/2020	Ce-141	-5.71E+01	4.60E+01	1.55E+02	U
SE	52	529874002	12/9/2020	Ce-144	4.62E+01	1.14E+02	4.20E+02	U
SE	52	529874002	12/9/2020	Co-57	-1.73E+01	1.50E+01	5.17E+01	U
SE	52	529874002	12/9/2020	Co-58	-3.62E+00	2.57E+01	8.57E+01	U
SE	52	529874002	12/9/2020	Co-60	4.94E+00	2.12E+01	7.35E+01	U
SE	52	529874002	12/9/2020	Cr-51	4.31E+02	2.84E+02	9.52E+02	U
SE	52	529874002	12/9/2020	Cs-134	0.00E+00	8.43E+01	1.37E+02	U
SE	52	529874002	12/9/2020	Cs-137	7.26E+00	2.36E+01	7.41E+01	U
SE	52	529874002	12/9/2020	Fe-59	6.43E+00	5.97E+01	2.09E+02	U
SE	52	529874002	12/9/2020	I-131	1.55E+02	1.60E+02	5.03E+02	U
SE	52	529874002	12/9/2020	K-40	1.26E+04	9.85E+02	5.58E+02	

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
SE	52	529874002	12/9/2020	La-140	2.28E+01	8.41E+01	2.56E+02	U
SE	52	529874002	12/9/2020	Mn-54	2.81E+01	2.60E+01	8.92E+01	U
SE	52	529874002	12/9/2020	Nb-95	1.72E+01	3.06E+01	9.55E+01	U
SE	52	529874002	12/9/2020	Pb-212	4.54E+03	2.35E+02	1.23E+02	
SE	52	529874002	12/9/2020	Pb-214	3.17E+03	2.00E+02	4.66E+02	
SE	52	529874002	12/9/2020	Ra-226	2.39E+03	1.66E+02	1.46E+02	
SE	52	529874002	12/9/2020	Ru-103	-4.86E+00	2.47E+01	8.69E+01	U
SE	52	529874002	12/9/2020	Ru-106	1.38E+02	1.99E+02	7.04E+02	U
SE	52	529874002	12/9/2020	Sb-124	-2.72E+01	5.76E+01	1.78E+02	U
SE	52	529874002	12/9/2020	Sb-125	-3.84E+01	5.61E+01	1.95E+02	U
SE	52	529874002	12/9/2020	Se-75	-1.12E+01	2.64E+01	8.87E+01	U
SE	52	529874002	12/9/2020	Th-228	4.54E+03	2.35E+02	1.23E+02	
SE	52	529874002	12/9/2020	Th-230	2.39E+03	1.66E+02	1.46E+02	
SE	52	529874002	12/9/2020	Tl-208	1.31E+03	9.57E+01	7.45E+01	
SE	52	529874002	12/9/2020	Zn-65	-2.45E+01	5.52E+01	1.61E+02	U
SE	52	529874002	12/9/2020	Zr-95	5.68E+01	5.65E+01	1.96E+02	U
SE	57	511615003	5/18/2020	Ac-228	3.90E+02	7.44E+01	1.11E+02	
SE	57	511615003	5/18/2020	Ag-108m	1.40E+00	5.76E+00	2.03E+01	U
SE	57	511615003	5/18/2020	Ag-110m	0.00E+00	4.32E+01	4.18E+01	U
SE	57	511615003	5/18/2020	Ba-140	1.01E+01	2.97E+01	1.03E+02	U
SE	57	511615003	5/18/2020	Be-7	2.16E+02	8.54E+01	1.86E+02	
SE	57	511615003	5/18/2020	Bi-214	2.63E+02	3.74E+01	5.13E+01	
SE	57	511615003	5/18/2020	Ce-141	9.08E+00	1.07E+01	3.43E+01	U
SE	57	511615003	5/18/2020	Ce-144	-1.11E+01	3.95E+01	1.36E+02	U
SE	57	511615003	5/18/2020	Co-57	1.10E+01	5.48E+00	1.80E+01	U
SE	57	511615003	5/18/2020	Co-58	-5.77E+00	7.54E+00	2.34E+01	U
SE	57	511615003	5/18/2020	Co-60	4.75E-01	9.47E+00	2.82E+01	U
SE	57	511615003	5/18/2020	Cr-51	4.84E+01	5.65E+01	2.04E+02	U
SE	57	511615003	5/18/2020	Cs-134	0.00E+00	2.62E+01	3.57E+01	U
SE	57	511615003	5/18/2020	Cs-137	1.05E+00	7.71E+00	2.61E+01	U
SE	57	511615003	5/18/2020	Fe-59	-2.86E+00	2.00E+01	6.55E+01	U
SE	57	511615003	5/18/2020	I-131	9.62E+00	9.08E+00	2.96E+01	U
SE	57	511615003	5/18/2020	K-40	2.15E+04	1.27E+03	1.78E+02	
SE	57	511615003	5/18/2020	La-140	-8.05E+00	8.36E+00	2.40E+01	U
SE	57	511615003	5/18/2020	Mn-54	-6.68E+00	8.43E+00	2.61E+01	U
SE	57	511615003	5/18/2020	Nb-95	-6.59E+00	7.93E+00	2.47E+01	U
SE	57	511615003	5/18/2020	Pb-212	4.50E+02	3.46E+01	3.88E+01	
SE	57	511615003	5/18/2020	Pb-214	3.86E+02	4.15E+01	1.02E+02	
SE	57	511615003	5/18/2020	Ra-226	2.63E+02	3.74E+01	5.13E+01	
SE	57	511615003	5/18/2020	Ru-103	8.03E+00	6.55E+00	2.29E+01	U
SE	57	511615003	5/18/2020	Ru-106	5.95E+01	6.35E+01	2.20E+02	U
SE	57	511615003	5/18/2020	Sb-124	5.51E+00	1.28E+01	4.39E+01	U
SE	57	511615003	5/18/2020	Sb-125	9.59E-01	1.85E+01	6.48E+01	U
SE	57	511615003	5/18/2020	Se-75	-7.56E+00	8.27E+00	2.72E+01	U
SE	57	511615003	5/18/2020	Th-228	4.50E+02	3.46E+01	3.88E+01	
SE	57	511615003	5/18/2020	Th-230	2.63E+02	3.74E+01	5.13E+01	
SE	57	511615003	5/18/2020	Tl-208	1.11E+02	1.88E+01	2.66E+01	
SE	57	511615003	5/18/2020	Zn-65	-1.53E+01	2.32E+01	6.66E+01	U
SE	57	511615003	5/18/2020	Zr-95	1.30E+01	1.35E+01	4.61E+01	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
SE	57	528391003	11/18/2020	Ac-228	2.90E+02	1.07E+02	1.29E+02	
SE	57	528391003	11/18/2020	Ag-108m	-3.67E+00	8.06E+00	2.69E+01	U
SE	57	528391003	11/18/2020	Ag-110m	-2.38E+00	1.53E+01	4.87E+01	U
SE	57	528391003	11/18/2020	Ba-140	2.86E+02	2.12E+02	7.44E+02	U
SE	57	528391003	11/18/2020	Be-7	3.55E+02	2.28E+02	3.64E+02	U
SE	57	528391003	11/18/2020	Bi-214	2.64E+02	6.08E+01	8.26E+01	
SE	57	528391003	11/18/2020	Ce-141	-6.93E+00	2.46E+01	8.21E+01	U
SE	57	528391003	11/18/2020	Ce-144	-4.67E+01	6.20E+01	2.01E+02	U
SE	57	528391003	11/18/2020	Co-57	-2.47E+00	7.19E+00	2.42E+01	U
SE	57	528391003	11/18/2020	Co-58	4.52E+00	1.37E+01	4.60E+01	U
SE	57	528391003	11/18/2020	Co-60	-1.07E+01	1.50E+01	4.64E+01	U
SE	57	528391003	11/18/2020	Cr-51	1.95E+02	1.71E+02	6.15E+02	U
SE	57	528391003	11/18/2020	Cs-134	3.68E+01	2.06E+01	5.24E+01	U
SE	57	528391003	11/18/2020	Cs-137	1.00E+01	1.24E+01	3.93E+01	U
SE	57	528391003	11/18/2020	Fe-59	-3.30E+01	4.02E+01	1.26E+02	U
SE	57	528391003	11/18/2020	I-131	1.52E+02	1.52E+02	5.46E+02	U
SE	57	528391003	11/18/2020	K-40	1.88E+04	1.18E+03	3.66E+02	
SE	57	528391003	11/18/2020	La-140	1.94E+02	8.35E+01	3.03E+02	U
SE	57	528391003	11/18/2020	Mn-54	7.15E+00	1.38E+01	4.64E+01	U
SE	57	528391003	11/18/2020	Nb-95	-8.94E+00	1.79E+01	5.44E+01	U
SE	57	528391003	11/18/2020	Pb-212	4.52E+02	4.49E+01	5.50E+01	
SE	57	528391003	11/18/2020	Pb-214	3.74E+02	6.00E+01	1.50E+02	
SE	57	528391003	11/18/2020	Ra-226	2.64E+02	6.08E+01	8.26E+01	
SE	57	528391003	11/18/2020	Ru-103	-8.92E-01	1.78E+01	6.05E+01	U
SE	57	528391003	11/18/2020	Ru-106	1.64E+02	1.10E+02	3.80E+02	U
SE	57	528391003	11/18/2020	Sb-124	1.29E+01	2.25E+01	8.14E+01	U
SE	57	528391003	11/18/2020	Sb-125	-3.34E+01	2.70E+01	8.22E+01	U
SE	57	528391003	11/18/2020	Se-75	9.09E+00	1.28E+01	4.68E+01	U
SE	57	528391003	11/18/2020	Th-228	4.52E+02	4.49E+01	5.50E+01	
SE	57	528391003	11/18/2020	Th-230	2.64E+02	6.08E+01	8.26E+01	
SE	57	528391003	11/18/2020	Tl-208	1.57E+02	3.02E+01	3.95E+01	
SE	57	528391003	11/18/2020	Zn-65	-7.44E+01	4.09E+01	9.68E+01	U
SE	57	528391003	11/18/2020	Zr-95	2.03E+01	2.81E+01	9.62E+01	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
TF	02	514168001	6/18/2020	Ac-228	4.95E+00	9.43E+00	2.73E+01	U
TF	02	514168001	6/18/2020	Ag-108m	9.39E-01	1.52E+00	4.94E+00	U
TF	02	514168001	6/18/2020	Ag-110m	-1.29E+00	2.75E+00	7.48E+00	U
TF	02	514168001	6/18/2020	Ba-140	-2.32E+00	6.97E+00	2.32E+01	U
TF	02	514168001	6/18/2020	Be-7	-1.96E+01	1.55E+01	4.39E+01	U
TF	02	514168001	6/18/2020	Ce-141	-5.42E+00	3.10E+00	7.53E+00	U
TF	02	514168001	6/18/2020	Ce-144	1.30E+01	9.60E+00	3.11E+01	U
TF	02	514168001	6/18/2020	Co-57	-5.53E-01	1.17E+00	3.94E+00	U
TF	02	514168001	6/18/2020	Co-58	1.49E+00	1.60E+00	5.45E+00	U
TF	02	514168001	6/18/2020	Co-60	5.78E-01	1.47E+00	5.09E+00	U
TF	02	514168001	6/18/2020	Cr-51	-3.13E+00	1.38E+01	4.45E+01	U
TF	02	514168001	6/18/2020	Cs-134	-1.80E-01	1.85E+00	6.07E+00	U
TF	02	514168001	6/18/2020	Cs-137	1.35E+00	1.81E+00	6.17E+00	U
TF	02	514168001	6/18/2020	Fe-59	8.25E+00	9.09E+00	1.20E+01	U
TF	02	514168001	6/18/2020	I-131	1.77E+00	2.33E+00	7.68E+00	U
TF	02	514168001	6/18/2020	K-40	1.31E+03	1.00E+02	5.96E+01	
TF	02	514168001	6/18/2020	La-140	4.33E-01	2.33E+00	7.83E+00	U
TF	02	514168001	6/18/2020	Mn-54	-1.26E+00	1.82E+00	5.64E+00	U
TF	02	514168001	6/18/2020	Nb-95	7.46E-01	1.68E+00	5.68E+00	U
TF	02	514168001	6/18/2020	Ru-103	1.69E+00	1.53E+00	5.02E+00	U
TF	02	514168001	6/18/2020	Ru-106	-3.07E+01	2.05E+01	4.70E+01	U
TF	02	514168001	6/18/2020	Sb-124	-1.07E+01	5.01E+00	1.04E+01	U
TF	02	514168001	6/18/2020	Sb-125	1.80E+00	4.22E+00	1.38E+01	U
TF	02	514168001	6/18/2020	Se-75	-7.03E-01	1.87E+00	6.05E+00	U
TF	02	514168001	6/18/2020	Th-228	5.11E+00	5.05E+00	8.19E+00	U
TF	02	514168001	6/18/2020	Zn-65	-4.74E+00	4.32E+00	1.23E+01	U
TF	02	514168001	6/18/2020	Zr-95	-4.96E-01	2.92E+00	9.56E+00	U
TF	02	516040001	7/14/2020	Ac-228	2.53E+01	1.81E+01	4.07E+01	U
TF	02	516040001	7/14/2020	Ag-108m	-4.01E+00	2.15E+00	5.06E+00	U
TF	02	516040001	7/14/2020	Ag-110m	-4.87E+00	3.45E+00	8.93E+00	U
TF	02	516040001	7/14/2020	Ba-140	-4.06E+00	9.74E+00	3.18E+01	U
TF	02	516040001	7/14/2020	Be-7	1.29E+01	1.81E+01	6.01E+01	U
TF	02	516040001	7/14/2020	Ce-141	9.64E-01	3.59E+00	1.23E+01	U
TF	02	516040001	7/14/2020	Ce-144	-5.28E+00	1.44E+01	4.60E+01	U
TF	02	516040001	7/14/2020	Co-57	1.54E+00	1.84E+00	5.84E+00	U
TF	02	516040001	7/14/2020	Co-58	-1.69E+00	2.09E+00	6.14E+00	U
TF	02	516040001	7/14/2020	Co-60	1.13E+00	2.30E+00	8.14E+00	U
TF	02	516040001	7/14/2020	Cr-51	1.05E+01	1.84E+01	6.17E+01	U
TF	02	516040001	7/14/2020	Cs-134	1.61E+00	2.59E+00	8.91E+00	U
TF	02	516040001	7/14/2020	Cs-137	5.93E+00	2.94E+00	9.44E+00	U
TF	02	516040001	7/14/2020	Fe-59	3.78E+00	5.02E+00	1.72E+01	U
TF	02	516040001	7/14/2020	I-131	-4.20E+00	3.69E+00	1.06E+01	U
TF	02	516040001	7/14/2020	K-40	6.19E+02	7.61E+01	7.27E+01	
TF	02	516040001	7/14/2020	La-140	-5.71E-01	3.60E+00	1.16E+01	U
TF	02	516040001	7/14/2020	Mn-54	2.74E-02	2.43E+00	7.98E+00	U
TF	02	516040001	7/14/2020	Nb-95	5.02E+00	2.77E+00	8.98E+00	U
TF	02	516040001	7/14/2020	Ru-103	-4.26E+00	2.63E+00	6.52E+00	U
TF	02	516040001	7/14/2020	Ru-106	-2.31E+01	2.19E+01	5.43E+01	U
TF	02	516040001	7/14/2020	Sb-124	-5.80E+00	5.27E+00	1.31E+01	U
TF	02	516040001	7/14/2020	Sb-125	-1.53E+01	7.33E+00	1.65E+01	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
TF	02	516040001	7/14/2020	Se-75	-6.78E-01	2.85E+00	9.27E+00	U
TF	02	516040001	7/14/2020	Th-228	-9.73E+00	5.77E+00	1.55E+01	U
TF	02	516040001	7/14/2020	Zn-65	1.84E+00	5.76E+00	1.78E+01	U
TF	02	516040001	7/14/2020	Zr-95	7.44E-01	3.57E+00	1.21E+01	U
TF	02	518831001	8/12/2020	Ac-228	9.31E+00	1.95E+01	4.33E+01	U
TF	02	518831001	8/12/2020	Ag-108m	6.18E-01	2.08E+00	6.82E+00	U
TF	02	518831001	8/12/2020	Ag-110m	1.14E-01	3.28E+00	1.08E+01	U
TF	02	518831001	8/12/2020	Ba-140	7.08E+00	1.02E+01	3.40E+01	U
TF	02	518831001	8/12/2020	Be-7	1.69E+01	1.93E+01	6.45E+01	U
TF	02	518831001	8/12/2020	Ce-141	9.75E-01	3.53E+00	1.10E+01	U
TF	02	518831001	8/12/2020	Ce-144	1.47E+00	1.22E+01	4.19E+01	U
TF	02	518831001	8/12/2020	Co-57	3.84E-01	1.63E+00	5.63E+00	U
TF	02	518831001	8/12/2020	Co-58	-2.28E-01	2.40E+00	7.88E+00	U
TF	02	518831001	8/12/2020	Co-60	-4.02E-01	3.11E+00	1.04E+01	U
TF	02	518831001	8/12/2020	Cr-51	1.41E+01	1.75E+01	5.96E+01	U
TF	02	518831001	8/12/2020	Cs-134	1.94E+00	2.97E+00	1.02E+01	U
TF	02	518831001	8/12/2020	Cs-137	-4.39E-01	2.42E+00	8.02E+00	U
TF	02	518831001	8/12/2020	Fe-59	3.72E+00	6.22E+00	2.10E+01	U
TF	02	518831001	8/12/2020	I-131	9.24E+00	1.01E+01	1.30E+01	U
TF	02	518831001	8/12/2020	K-40	2.08E+03	1.75E+02	8.21E+01	
TF	02	518831001	8/12/2020	La-140	-4.56E+00	3.99E+00	9.98E+00	U
TF	02	518831001	8/12/2020	Mn-54	2.13E+00	2.54E+00	8.80E+00	U
TF	02	518831001	8/12/2020	Nb-95	3.23E+00	3.63E+00	5.88E+00	U
TF	02	518831001	8/12/2020	Ru-103	-2.81E+00	2.72E+00	7.74E+00	U
TF	02	518831001	8/12/2020	Ru-106	4.67E+00	2.08E+01	7.14E+01	U
TF	02	518831001	8/12/2020	Sb-124	5.16E+00	3.99E+00	1.59E+01	U
TF	02	518831001	8/12/2020	Sb-125	9.75E-01	6.68E+00	2.17E+01	U
TF	02	518831001	8/12/2020	Se-75	-6.36E-01	2.77E+00	9.06E+00	U
TF	02	518831001	8/12/2020	Th-228	-6.18E+00	4.74E+00	1.47E+01	U
TF	02	518831001	8/12/2020	Zn-65	7.04E+00	5.88E+00	2.05E+01	U
TF	02	518831001	8/12/2020	Zr-95	2.10E+00	3.68E+00	1.28E+01	U
TF	03	514168002	6/18/2020	Ac-228	-6.36E+00	8.08E+00	2.29E+01	U
TF	03	514168002	6/18/2020	Ag-108m	8.94E-01	1.15E+00	3.60E+00	U
TF	03	514168002	6/18/2020	Ag-110m	1.22E+00	1.90E+00	6.28E+00	U
TF	03	514168002	6/18/2020	Ba-140	-3.44E+00	5.09E+00	1.60E+01	U
TF	03	514168002	6/18/2020	Be-7	1.26E+01	1.14E+01	3.87E+01	U
TF	03	514168002	6/18/2020	Ce-141	-5.09E+00	2.64E+00	5.87E+00	U
TF	03	514168002	6/18/2020	Ce-144	6.32E+00	7.86E+00	2.58E+01	U
TF	03	514168002	6/18/2020	Co-57	2.11E+00	1.43E+00	3.19E+00	U
TF	03	514168002	6/18/2020	Co-58	9.73E-01	1.67E+00	5.48E+00	U
TF	03	514168002	6/18/2020	Co-60	8.64E-01	1.50E+00	5.18E+00	U
TF	03	514168002	6/18/2020	Cr-51	9.84E+00	1.60E+01	3.44E+01	U
TF	03	514168002	6/18/2020	Cs-134	2.44E-01	1.33E+00	4.34E+00	U
TF	03	514168002	6/18/2020	Cs-137	3.85E+00	1.64E+00	4.21E+00	U
TF	03	514168002	6/18/2020	Fe-59	6.36E-01	2.71E+00	9.28E+00	U
TF	03	514168002	6/18/2020	I-131	-1.80E+00	1.62E+00	5.01E+00	U
TF	03	514168002	6/18/2020	K-40	1.53E+03	1.11E+02	4.49E+01	
TF	03	514168002	6/18/2020	La-140	-3.75E+00	2.62E+00	5.92E+00	U
TF	03	514168002	6/18/2020	Mn-54	-2.36E-01	1.46E+00	4.62E+00	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
TF	03	514168002	6/18/2020	Nb-95	7.85E-01	1.20E+00	4.02E+00	U
TF	03	514168002	6/18/2020	Ru-103	1.52E-01	1.37E+00	4.58E+00	U
TF	03	514168002	6/18/2020	Ru-106	6.07E+00	1.08E+01	3.62E+01	U
TF	03	514168002	6/18/2020	Sb-124	1.95E+00	2.88E+00	1.00E+01	U
TF	03	514168002	6/18/2020	Sb-125	4.77E-01	3.73E+00	1.13E+01	U
TF	03	514168002	6/18/2020	Se-75	3.12E+00	1.76E+00	5.45E+00	U
TF	03	514168002	6/18/2020	Th-228	2.52E+00	5.32E+00	8.84E+00	U
TF	03	514168002	6/18/2020	Zn-65	1.82E-02	3.07E+00	1.03E+01	U
TF	03	514168002	6/18/2020	Zr-95	-5.81E-01	2.25E+00	7.11E+00	U
TF	03	516040002	7/14/2020	Ac-228	7.51E-01	1.13E+01	3.86E+01	U
TF	03	516040002	7/14/2020	Ag-108m	4.19E-01	1.51E+00	5.19E+00	U
TF	03	516040002	7/14/2020	Ag-110m	-7.17E-01	3.11E+00	9.77E+00	U
TF	03	516040002	7/14/2020	Ba-140	-6.90E+00	9.25E+00	2.82E+01	U
TF	03	516040002	7/14/2020	Be-7	2.20E+01	1.90E+01	6.63E+01	U
TF	03	516040002	7/14/2020	Ce-141	1.85E+00	3.20E+00	9.83E+00	U
TF	03	516040002	7/14/2020	Ce-144	1.11E+01	1.22E+01	4.03E+01	U
TF	03	516040002	7/14/2020	Co-57	0.00E+00	2.55E+00	4.37E+00	U
TF	03	516040002	7/14/2020	Co-58	-1.95E+00	2.66E+00	7.93E+00	U
TF	03	516040002	7/14/2020	Co-60	6.19E-01	2.84E+00	1.06E+01	U
TF	03	516040002	7/14/2020	Cr-51	2.34E+01	1.95E+01	6.83E+01	U
TF	03	516040002	7/14/2020	Cs-134	3.10E+00	2.91E+00	9.21E+00	U
TF	03	516040002	7/14/2020	Cs-137	2.67E+00	2.47E+00	8.53E+00	U
TF	03	516040002	7/14/2020	Fe-59	-4.31E-01	6.11E+00	1.93E+01	U
TF	03	516040002	7/14/2020	I-131	1.15E+00	4.11E+00	1.42E+01	U
TF	03	516040002	7/14/2020	K-40	2.25E+03	1.58E+02	6.01E+01	
TF	03	516040002	7/14/2020	La-140	1.17E+00	2.86E+00	1.01E+01	U
TF	03	516040002	7/14/2020	Mn-54	6.32E-01	2.14E+00	7.11E+00	U
TF	03	516040002	7/14/2020	Nb-95	3.27E+00	2.52E+00	8.70E+00	U
TF	03	516040002	7/14/2020	Ru-103	-1.11E+00	2.12E+00	6.79E+00	U
TF	03	516040002	7/14/2020	Ru-106	-2.74E+01	2.06E+01	5.69E+01	U
TF	03	516040002	7/14/2020	Sb-124	1.77E+00	3.64E+00	1.32E+01	U
TF	03	516040002	7/14/2020	Sb-125	-8.46E-01	4.91E+00	1.64E+01	U
TF	03	516040002	7/14/2020	Se-75	1.81E+00	2.40E+00	8.23E+00	U
TF	03	516040002	7/14/2020	Th-228	1.67E+00	4.53E+00	1.35E+01	U
TF	03	516040002	7/14/2020	Zn-65	-1.46E+00	5.82E+00	1.57E+01	U
TF	03	516040002	7/14/2020	Zr-95	-6.65E-01	3.91E+00	1.25E+01	U
TF	03	518831002	8/12/2020	Ac-228	-4.44E+00	1.28E+01	4.12E+01	U
TF	03	518831002	8/12/2020	Ag-108m	1.25E+00	2.30E+00	7.94E+00	U
TF	03	518831002	8/12/2020	Ag-110m	7.19E-01	4.03E+00	1.31E+01	U
TF	03	518831002	8/12/2020	Ba-140	1.34E+01	1.11E+01	3.65E+01	U
TF	03	518831002	8/12/2020	Be-7	2.80E+01	2.09E+01	7.33E+01	U
TF	03	518831002	8/12/2020	Ce-141	-4.14E+00	5.03E+00	1.45E+01	U
TF	03	518831002	8/12/2020	Ce-144	4.24E+00	1.52E+01	4.94E+01	U
TF	03	518831002	8/12/2020	Co-57	-1.05E+00	2.11E+00	6.57E+00	U
TF	03	518831002	8/12/2020	Co-58	-2.24E+00	2.80E+00	8.09E+00	U
TF	03	518831002	8/12/2020	Co-60	-3.48E-01	2.93E+00	9.63E+00	U
TF	03	518831002	8/12/2020	Cr-51	7.03E-01	2.16E+01	7.36E+01	U
TF	03	518831002	8/12/2020	Cs-134	7.49E-01	2.78E+00	9.22E+00	U
TF	03	518831002	8/12/2020	Cs-137	2.45E-01	3.15E+00	1.04E+01	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
TF	03	518831002	8/12/2020	Fe-59	-9.85E+00	6.46E+00	1.70E+01	U
TF	03	518831002	8/12/2020	I-131	-2.90E+00	4.12E+00	1.32E+01	U
TF	03	518831002	8/12/2020	K-40	2.58E+03	2.02E+02	8.80E+01	
TF	03	518831002	8/12/2020	La-140	-6.08E+00	3.79E+00	6.94E+00	U
TF	03	518831002	8/12/2020	Mn-54	4.25E+00	3.13E+00	1.07E+01	U
TF	03	518831002	8/12/2020	Nb-95	6.90E-01	2.85E+00	9.42E+00	U
TF	03	518831002	8/12/2020	Ru-103	-2.13E+00	3.02E+00	9.42E+00	U
TF	03	518831002	8/12/2020	Ru-106	-1.09E+01	2.41E+01	7.54E+01	U
TF	03	518831002	8/12/2020	Sb-124	6.08E+00	6.41E+00	2.36E+01	U
TF	03	518831002	8/12/2020	Sb-125	5.01E-01	6.51E+00	2.20E+01	U
TF	03	518831002	8/12/2020	Se-75	6.62E-01	3.25E+00	1.13E+01	U
TF	03	518831002	8/12/2020	Th-228	-1.25E+00	5.57E+00	1.76E+01	U
TF	03	518831002	8/12/2020	Zn-65	2.11E+00	6.24E+00	2.17E+01	U
TF	03	518831002	8/12/2020	Zr-95	2.13E+00	6.08E+00	1.82E+01	U
TF	06	514168003	6/18/2020	Ac-228	1.77E+01	1.35E+01	2.33E+01	U
TF	06	514168003	6/18/2020	Ag-108m	-1.41E+00	1.27E+00	3.89E+00	U
TF	06	514168003	6/18/2020	Ag-110m	-4.84E-01	1.75E+00	5.48E+00	U
TF	06	514168003	6/18/2020	Ba-140	-2.73E+00	5.63E+00	1.80E+01	U
TF	06	514168003	6/18/2020	Be-7	1.59E+01	1.23E+01	4.15E+01	U
TF	06	514168003	6/18/2020	Ce-141	6.98E-01	2.23E+00	7.14E+00	U
TF	06	514168003	6/18/2020	Ce-144	-1.14E+00	8.56E+00	2.72E+01	U
TF	06	514168003	6/18/2020	Co-57	1.39E+00	1.24E+00	3.96E+00	U
TF	06	514168003	6/18/2020	Co-58	-3.27E-01	1.21E+00	3.79E+00	U
TF	06	514168003	6/18/2020	Co-60	-2.09E+00	1.53E+00	4.21E+00	U
TF	06	514168003	6/18/2020	Cr-51	-1.16E+00	1.10E+01	3.71E+01	U
TF	06	514168003	6/18/2020	Cs-134	2.52E+00	1.71E+00	5.69E+00	U
TF	06	514168003	6/18/2020	Cs-137	-1.26E+00	1.35E+00	4.01E+00	U
TF	06	514168003	6/18/2020	Fe-59	2.10E+00	2.75E+00	9.67E+00	U
TF	06	514168003	6/18/2020	I-131	6.00E-01	1.97E+00	6.08E+00	U
TF	06	514168003	6/18/2020	K-40	1.13E+03	9.08E+01	4.68E+01	
TF	06	514168003	6/18/2020	La-140	-1.57E+00	1.78E+00	4.08E+00	U
TF	06	514168003	6/18/2020	Mn-54	1.56E+00	1.45E+00	4.86E+00	U
TF	06	514168003	6/18/2020	Nb-95	2.33E+00	1.45E+00	4.84E+00	U
TF	06	514168003	6/18/2020	Ru-103	4.31E+00	2.09E+00	4.77E+00	U
TF	06	514168003	6/18/2020	Ru-106	-2.13E+01	1.23E+01	3.23E+01	U
TF	06	514168003	6/18/2020	Sb-124	-9.24E-01	3.10E+00	9.83E+00	U
TF	06	514168003	6/18/2020	Sb-125	-1.05E+00	3.29E+00	1.08E+01	U
TF	06	514168003	6/18/2020	Se-75	-1.61E+00	2.00E+00	5.59E+00	U
TF	06	514168003	6/18/2020	Th-228	4.26E+00	3.68E+00	9.12E+00	U
TF	06	514168003	6/18/2020	Zn-65	7.39E-01	3.30E+00	1.13E+01	U
TF	06	514168003	6/18/2020	Zr-95	1.15E-01	2.35E+00	7.63E+00	U
TF	06	516040003	7/14/2020	Ac-228	1.12E+01	1.04E+01	3.52E+01	U
TF	06	516040003	7/14/2020	Ag-108m	-2.50E+00	1.67E+00	4.53E+00	U
TF	06	516040003	7/14/2020	Ag-110m	-2.35E+00	2.99E+00	8.47E+00	U
TF	06	516040003	7/14/2020	Ba-140	1.03E+01	8.42E+00	2.97E+01	U
TF	06	516040003	7/14/2020	Be-7	2.29E+01	1.72E+01	5.98E+01	U
TF	06	516040003	7/14/2020	Ce-141	1.45E+00	3.24E+00	1.04E+01	U
TF	06	516040003	7/14/2020	Ce-144	1.37E+01	1.26E+01	4.09E+01	U
TF	06	516040003	7/14/2020	Co-57	9.47E-01	1.80E+00	5.42E+00	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
TF	06	516040003	7/14/2020	Co-58	-6.60E-01	1.72E+00	5.19E+00	U
TF	06	516040003	7/14/2020	Co-60	-3.98E-01	2.14E+00	6.96E+00	U
TF	06	516040003	7/14/2020	Cr-51	1.40E+00	1.56E+01	5.32E+01	U
TF	06	516040003	7/14/2020	Cs-134	-4.89E+00	2.74E+00	6.25E+00	U
TF	06	516040003	7/14/2020	Cs-137	2.84E+00	2.16E+00	7.54E+00	U
TF	06	516040003	7/14/2020	Fe-59	-1.99E+00	3.44E+00	1.06E+01	U
TF	06	516040003	7/14/2020	I-131	2.58E+00	2.98E+00	1.04E+01	U
TF	06	516040003	7/14/2020	K-40	4.94E+02	7.74E+01	8.00E+01	
TF	06	516040003	7/14/2020	La-140	9.00E-03	2.50E+00	8.23E+00	U
TF	06	516040003	7/14/2020	Mn-54	2.53E+00	3.04E+00	7.94E+00	U
TF	06	516040003	7/14/2020	Nb-95	-5.75E-01	1.92E+00	5.96E+00	U
TF	06	516040003	7/14/2020	Ru-103	-5.98E-01	1.88E+00	6.03E+00	U
TF	06	516040003	7/14/2020	Ru-106	-1.98E+01	1.59E+01	4.20E+01	U
TF	06	516040003	7/14/2020	Sb-124	-5.08E+00	5.10E+00	1.32E+01	U
TF	06	516040003	7/14/2020	Sb-125	4.68E+00	5.01E+00	1.75E+01	U
TF	06	516040003	7/14/2020	Se-75	5.38E-01	2.35E+00	8.12E+00	U
TF	06	516040003	7/14/2020	Th-228	8.27E+00	7.07E+00	1.30E+01	U
TF	06	516040003	7/14/2020	Zn-65	-1.24E+00	4.79E+00	1.62E+01	U
TF	06	516040003	7/14/2020	Zr-95	3.39E+00	3.52E+00	1.22E+01	U
TF	06	518831003	8/12/2020	Ac-228	6.10E+00	1.27E+01	4.32E+01	U
TF	06	518831003	8/12/2020	Ag-108m	-1.26E+00	2.04E+00	6.45E+00	U
TF	06	518831003	8/12/2020	Ag-110m	1.84E+00	3.43E+00	1.21E+01	U
TF	06	518831003	8/12/2020	Ba-140	3.93E+00	1.08E+01	3.65E+01	U
TF	06	518831003	8/12/2020	Be-7	1.09E+01	2.15E+01	7.32E+01	U
TF	06	518831003	8/12/2020	Ce-141	-8.16E-01	3.65E+00	1.10E+01	U
TF	06	518831003	8/12/2020	Ce-144	-1.96E+01	1.29E+01	3.59E+01	U
TF	06	518831003	8/12/2020	Co-57	2.82E-01	1.59E+00	5.27E+00	U
TF	06	518831003	8/12/2020	Co-58	6.26E+00	2.75E+00	8.89E+00	U
TF	06	518831003	8/12/2020	Co-60	2.98E+00	2.82E+00	1.01E+01	U
TF	06	518831003	8/12/2020	Cr-51	2.46E+01	2.18E+01	7.62E+01	U
TF	06	518831003	8/12/2020	Cs-134	-6.89E-01	3.20E+00	9.80E+00	U
TF	06	518831003	8/12/2020	Cs-137	1.55E-01	2.60E+00	8.43E+00	U
TF	06	518831003	8/12/2020	Fe-59	-7.82E+00	5.96E+00	1.60E+01	U
TF	06	518831003	8/12/2020	I-131	1.25E+00	3.72E+00	1.28E+01	U
TF	06	518831003	8/12/2020	K-40	2.16E+03	1.73E+02	5.98E+01	
TF	06	518831003	8/12/2020	La-140	-1.72E+00	3.38E+00	9.62E+00	U
TF	06	518831003	8/12/2020	Mn-54	-4.74E+00	2.65E+00	6.65E+00	U
TF	06	518831003	8/12/2020	Nb-95	-2.04E+00	2.92E+00	8.57E+00	U
TF	06	518831003	8/12/2020	Ru-103	0.00E+00	0.00E+00	5.90E+00	U
TF	06	518831003	8/12/2020	Ru-106	5.09E+01	2.46E+01	5.27E+01	U
TF	06	518831003	8/12/2020	Sb-124	-1.20E+00	4.78E+00	1.54E+01	U
TF	06	518831003	8/12/2020	Sb-125	1.16E+00	6.08E+00	2.06E+01	U
TF	06	518831003	8/12/2020	Se-75	-5.70E-01	3.30E+00	1.02E+01	U
TF	06	518831003	8/12/2020	Th-228	-3.64E+00	5.09E+00	1.53E+01	U
TF	06	518831003	8/12/2020	Zn-65	-2.08E+00	7.19E+00	2.32E+01	U
TF	06	518831003	8/12/2020	Zr-95	1.50E-02	4.10E+00	1.31E+01	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
TG	08	511871001	5/20/2020	Ac-228	4.07E+01	2.81E+01	5.69E+01	U
TG	08	511871001	5/20/2020	Ag-108m	2.56E+00	2.23E+00	7.17E+00	U
TG	08	511871001	5/20/2020	Ag-110m	-3.47E+00	3.91E+00	1.23E+01	U
TG	08	511871001	5/20/2020	Ba-140	1.55E+01	1.31E+01	4.35E+01	U
TG	08	511871001	5/20/2020	Be-7	2.38E+02	4.54E+01	7.54E+01	
TG	08	511871001	5/20/2020	Ce-141	-5.63E+00	3.77E+00	1.16E+01	U
TG	08	511871001	5/20/2020	Ce-144	7.45E+00	1.37E+01	4.75E+01	U
TG	08	511871001	5/20/2020	Co-57	-4.82E+00	2.16E+00	5.15E+00	U
TG	08	511871001	5/20/2020	Co-58	2.11E+00	2.90E+00	1.01E+01	U
TG	08	511871001	5/20/2020	Co-60	-1.47E+00	3.13E+00	9.85E+00	U
TG	08	511871001	5/20/2020	Cr-51	-2.44E+01	2.11E+01	6.40E+01	U
TG	08	511871001	5/20/2020	Cs-134	-1.49E+00	2.86E+00	9.36E+00	U
TG	08	511871001	5/20/2020	Cs-137	4.86E+00	3.14E+00	1.02E+01	U
TG	08	511871001	5/20/2020	Fe-59	2.53E+00	6.15E+00	2.09E+01	U
TG	08	511871001	5/20/2020	I-131	2.19E+00	4.03E+00	1.35E+01	U
TG	08	511871001	5/20/2020	K-40	4.21E+03	2.36E+02	7.60E+01	
TG	08	511871001	5/20/2020	La-140	-5.53E+00	3.84E+00	9.33E+00	U
TG	08	511871001	5/20/2020	Mn-54	-3.38E+00	2.70E+00	8.08E+00	U
TG	08	511871001	5/20/2020	Nb-95	-2.76E+00	3.15E+00	9.22E+00	U
TG	08	511871001	5/20/2020	Ru-103	-2.84E+00	2.80E+00	8.38E+00	U
TG	08	511871001	5/20/2020	Ru-106	1.18E+01	2.32E+01	7.62E+01	U
TG	08	511871001	5/20/2020	Sb-124	1.14E+00	6.05E+00	1.99E+01	U
TG	08	511871001	5/20/2020	Sb-125	4.05E+00	6.40E+00	2.14E+01	U
TG	08	511871001	5/20/2020	Se-75	1.47E+00	2.75E+00	9.35E+00	U
TG	08	511871001	5/20/2020	Th-228	9.37E+00	6.98E+00	1.69E+01	U
TG	08	511871001	5/20/2020	Zn-65	7.48E+00	6.58E+00	2.26E+01	U
TG	08	511871001	5/20/2020	Zr-95	-1.12E+00	5.34E+00	1.67E+01	U
TG	08	514168004	6/17/2020	Ac-228	5.96E+01	5.43E+01	1.66E+02	U
TG	08	514168004	6/17/2020	Ag-108m	1.16E+01	7.99E+00	2.65E+01	U
TG	08	514168004	6/17/2020	Ag-110m	-2.37E+01	1.42E+01	3.74E+01	U
TG	08	514168004	6/17/2020	Ba-140	2.86E+01	4.54E+01	1.49E+02	U
TG	08	514168004	6/17/2020	Be-7	7.81E+02	1.47E+02	2.14E+02	
TG	08	514168004	6/17/2020	Ce-141	-6.07E+00	1.04E+01	3.48E+01	U
TG	08	514168004	6/17/2020	Ce-144	3.79E+01	3.90E+01	1.24E+02	U
TG	08	514168004	6/17/2020	Co-57	-7.78E+00	5.66E+00	1.57E+01	U
TG	08	514168004	6/17/2020	Co-58	1.91E+00	9.65E+00	3.26E+01	U
TG	08	514168004	6/17/2020	Co-60	2.67E+01	1.61E+01	4.01E+01	U
TG	08	514168004	6/17/2020	Cr-51	-3.78E+01	7.41E+01	2.38E+02	U
TG	08	514168004	6/17/2020	Cs-134	6.77E+00	9.88E+00	3.43E+01	U
TG	08	514168004	6/17/2020	Cs-137	-2.31E-01	1.10E+01	3.28E+01	U
TG	08	514168004	6/17/2020	Fe-59	6.76E+00	1.97E+01	6.62E+01	U
TG	08	514168004	6/17/2020	I-131	-6.24E+00	1.29E+01	4.10E+01	U
TG	08	514168004	6/17/2020	K-40	3.47E+03	3.88E+02	2.97E+02	
TG	08	514168004	6/17/2020	La-140	-1.71E+01	1.19E+01	2.85E+01	U
TG	08	514168004	6/17/2020	Mn-54	2.68E+00	9.54E+00	3.24E+01	U
TG	08	514168004	6/17/2020	Nb-95	4.85E+00	9.83E+00	3.38E+01	U
TG	08	514168004	6/17/2020	Ru-103	-1.11E+01	9.20E+00	2.20E+01	U
TG	08	514168004	6/17/2020	Ru-106	1.92E+02	9.53E+01	3.19E+02	U
TG	08	514168004	6/17/2020	Sb-124	-2.27E+01	2.13E+01	5.87E+01	U
TG	08	514168004	6/17/2020	Sb-125	-1.96E+01	2.33E+01	7.04E+01	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
TG	08	514168004	6/17/2020	Se-75	7.13E+00	9.23E+00	3.14E+01	U
TG	08	514168004	6/17/2020	Th-228	-2.08E+01	1.97E+01	5.46E+01	U
TG	08	514168004	6/17/2020	Zn-65	-9.94E+00	2.40E+01	7.55E+01	U
TG	08	514168004	6/17/2020	Zr-95	-5.98E+00	1.79E+01	5.86E+01	U
TG	08	516040004	7/14/2020	Ac-228	2.59E+01	4.28E+01	9.53E+01	U
TG	08	516040004	7/14/2020	Ag-108m	-1.00E+01	5.50E+00	1.47E+01	U
TG	08	516040004	7/14/2020	Ag-110m	1.29E+01	8.30E+00	2.88E+01	U
TG	08	516040004	7/14/2020	Ba-140	3.69E+00	2.57E+01	8.44E+01	U
TG	08	516040004	7/14/2020	Be-7	7.41E+02	1.08E+02	1.85E+02	
TG	08	516040004	7/14/2020	Ce-141	-3.36E+01	1.39E+01	2.79E+01	U
TG	08	516040004	7/14/2020	Ce-144	1.33E+01	3.45E+01	1.12E+02	U
TG	08	516040004	7/14/2020	Co-57	3.56E+00	4.37E+00	1.42E+01	U
TG	08	516040004	7/14/2020	Co-58	-1.29E+01	6.73E+00	1.55E+01	U
TG	08	516040004	7/14/2020	Co-60	-1.28E+01	6.79E+00	1.51E+01	U
TG	08	516040004	7/14/2020	Cr-51	3.06E+01	5.18E+01	1.77E+02	U
TG	08	516040004	7/14/2020	Cs-134	8.85E+00	6.41E+00	2.14E+01	U
TG	08	516040004	7/14/2020	Cs-137	-6.76E+00	6.35E+00	1.82E+01	U
TG	08	516040004	7/14/2020	Fe-59	1.87E+01	1.22E+01	4.24E+01	U
TG	08	516040004	7/14/2020	I-131	-3.73E+00	9.84E+00	3.23E+01	U
TG	08	516040004	7/14/2020	K-40	3.08E+03	2.92E+02	2.05E+02	
TG	08	516040004	7/14/2020	La-140	-1.53E+01	9.02E+00	1.90E+01	U
TG	08	516040004	7/14/2020	Mn-54	2.57E+00	5.79E+00	2.00E+01	U
TG	08	516040004	7/14/2020	Nb-95	1.17E+00	6.27E+00	2.01E+01	U
TG	08	516040004	7/14/2020	Ru-103	2.92E+00	6.29E+00	2.10E+01	U
TG	08	516040004	7/14/2020	Ru-106	1.31E+01	5.56E+01	1.82E+02	U
TG	08	516040004	7/14/2020	Sb-124	-2.34E+01	1.51E+01	3.85E+01	U
TG	08	516040004	7/14/2020	Sb-125	7.52E+00	1.44E+01	4.88E+01	U
TG	08	516040004	7/14/2020	Se-75	6.84E+00	7.29E+00	2.51E+01	U
TG	08	516040004	7/14/2020	Th-228	0.00E+00	2.43E+01	4.23E+01	U
TG	08	516040004	7/14/2020	Zn-65	5.51E-01	1.34E+01	3.92E+01	U
TG	08	516040004	7/14/2020	Zr-95	-1.18E+01	1.17E+01	3.33E+01	U
TG	08	518831004	8/12/2020	Ac-228	7.55E+01	5.84E+01	1.28E+02	U
TG	08	518831004	8/12/2020	Ag-108m	-5.74E+00	7.36E+00	2.30E+01	U
TG	08	518831004	8/12/2020	Ag-110m	-5.12E+00	1.12E+01	3.63E+01	U
TG	08	518831004	8/12/2020	Ba-140	6.88E+00	3.42E+01	1.15E+02	U
TG	08	518831004	8/12/2020	Be-7	9.90E+02	1.65E+02	1.89E+02	
TG	08	518831004	8/12/2020	Ce-141	-1.87E+01	1.37E+01	3.78E+01	U
TG	08	518831004	8/12/2020	Ce-144	2.94E+01	4.13E+01	1.38E+02	U
TG	08	518831004	8/12/2020	Co-57	7.07E+00	5.68E+00	1.89E+01	U
TG	08	518831004	8/12/2020	Co-58	-2.72E+00	8.90E+00	2.74E+01	U
TG	08	518831004	8/12/2020	Co-60	-6.78E+00	8.62E+00	2.48E+01	U
TG	08	518831004	8/12/2020	Cr-51	8.47E+00	5.93E+01	2.04E+02	U
TG	08	518831004	8/12/2020	Cs-134	2.34E+01	1.09E+01	3.68E+01	U
TG	08	518831004	8/12/2020	Cs-137	2.14E+01	1.80E+01	2.51E+01	U
TG	08	518831004	8/12/2020	Fe-59	5.31E+00	1.86E+01	6.05E+01	U
TG	08	518831004	8/12/2020	I-131	-4.40E+00	1.10E+01	3.60E+01	U
TG	08	518831004	8/12/2020	K-40	5.29E+03	4.38E+02	2.94E+02	
TG	08	518831004	8/12/2020	La-140	-4.12E+00	1.03E+01	3.03E+01	U
TG	08	518831004	8/12/2020	Mn-54	2.87E+00	9.25E+00	2.95E+01	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
TG	08	518831004	8/12/2020	Nb-95	-5.03E+00	8.80E+00	2.64E+01	U
TG	08	518831004	8/12/2020	Ru-103	1.98E-01	8.36E+00	2.77E+01	U
TG	08	518831004	8/12/2020	Ru-106	-4.25E+01	7.43E+01	2.28E+02	U
TG	08	518831004	8/12/2020	Sb-124	2.74E+00	2.01E+01	6.60E+01	U
TG	08	518831004	8/12/2020	Sb-125	-9.04E+00	2.11E+01	6.82E+01	U
TG	08	518831004	8/12/2020	Se-75	3.49E+00	9.19E+00	2.93E+01	U
TG	08	518831004	8/12/2020	Th-228	4.87E+01	3.17E+01	5.94E+01	U
TG	08	518831004	8/12/2020	Zn-65	5.07E+01	2.00E+01	5.28E+01	U
TG	08	518831004	8/12/2020	Zr-95	8.43E+00	1.73E+01	5.73E+01	U
TG	08	521446001	9/9/2020	Ac-228	-1.57E+01	2.11E+01	5.68E+01	U
TG	08	521446001	9/9/2020	Ag-108m	1.56E+00	3.24E+00	1.02E+01	U
TG	08	521446001	9/9/2020	Ag-110m	-7.06E+00	5.43E+00	1.45E+01	U
TG	08	521446001	9/9/2020	Ba-140	-1.73E+01	2.03E+01	6.30E+01	U
TG	08	521446001	9/9/2020	Be-7	1.31E+03	1.10E+02	1.10E+02	
TG	08	521446001	9/9/2020	Ce-141	3.11E+00	1.14E+01	1.63E+01	U
TG	08	521446001	9/9/2020	Ce-144	-4.22E+01	2.31E+01	6.32E+01	U
TG	08	521446001	9/9/2020	Co-57	4.32E+00	2.81E+00	9.20E+00	U
TG	08	521446001	9/9/2020	Co-58	2.32E-01	4.35E+00	1.42E+01	U
TG	08	521446001	9/9/2020	Co-60	1.02E+01	4.90E+00	1.73E+01	U
TG	08	521446001	9/9/2020	Cr-51	-2.84E+01	3.66E+01	1.07E+02	U
TG	08	521446001	9/9/2020	Cs-134	2.72E+00	4.97E+00	1.67E+01	U
TG	08	521446001	9/9/2020	Cs-137	8.71E-01	4.98E+00	1.66E+01	U
TG	08	521446001	9/9/2020	Fe-59	6.05E-01	9.43E+00	3.00E+01	U
TG	08	521446001	9/9/2020	I-131	5.08E+00	6.24E+00	2.19E+01	U
TG	08	521446001	9/9/2020	K-40	2.11E+03	2.04E+02	1.13E+02	
TG	08	521446001	9/9/2020	La-140	2.84E+00	5.81E+00	2.03E+01	U
TG	08	521446001	9/9/2020	Mn-54	-5.37E-01	3.87E+00	1.24E+01	U
TG	08	521446001	9/9/2020	Nb-95	1.91E+00	4.76E+00	1.59E+01	U
TG	08	521446001	9/9/2020	Ru-103	3.18E+00	4.10E+00	1.41E+01	U
TG	08	521446001	9/9/2020	Ru-106	4.32E+01	4.43E+01	8.87E+01	U
TG	08	521446001	9/9/2020	Sb-124	-4.45E+00	1.18E+01	3.72E+01	U
TG	08	521446001	9/9/2020	Sb-125	1.81E+00	8.88E+00	2.76E+01	U
TG	08	521446001	9/9/2020	Se-75	-3.93E+00	5.88E+00	1.65E+01	U
TG	08	521446001	9/9/2020	Th-228	-9.77E+00	1.13E+01	4.00E+01	U
TG	08	521446001	9/9/2020	Zn-65	1.73E+01	1.06E+01	3.47E+01	U
TG	08	521446001	9/9/2020	Zr-95	-8.14E+00	7.58E+00	2.18E+01	U
TG	08	523906001	10/7/2020	Ac-228	1.32E+01	5.83E+01	7.94E+01	U
TG	08	523906001	10/7/2020	Ag-108m	-6.25E-02	5.27E+00	1.76E+01	U
TG	08	523906001	10/7/2020	Ag-110m	1.15E+01	1.00E+01	3.48E+01	U
TG	08	523906001	10/7/2020	Ba-140	3.44E+01	2.89E+01	9.73E+01	U
TG	08	523906001	10/7/2020	Be-7	6.95E+02	1.07E+02	1.73E+02	
TG	08	523906001	10/7/2020	Ce-141	-3.97E+01	1.30E+01	2.51E+01	U
TG	08	523906001	10/7/2020	Ce-144	-3.20E-01	3.15E+01	1.03E+02	U
TG	08	523906001	10/7/2020	Co-57	2.39E-01	4.27E+00	1.40E+01	U
TG	08	523906001	10/7/2020	Co-58	3.83E+00	5.89E+00	1.95E+01	U
TG	08	523906001	10/7/2020	Co-60	5.18E-01	6.60E+00	2.18E+01	U
TG	08	523906001	10/7/2020	Cr-51	2.77E+01	5.43E+01	1.87E+02	U
TG	08	523906001	10/7/2020	Cs-134	-3.63E+00	8.47E+00	2.23E+01	U
TG	08	523906001	10/7/2020	Cs-137	0.00E+00	1.86E+01	2.14E+01	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
TG	08	523906001	10/7/2020	Fe-59	2.76E+00	1.36E+01	4.59E+01	U
TG	08	523906001	10/7/2020	I-131	-1.21E+01	8.55E+00	2.55E+01	U
TG	08	523906001	10/7/2020	K-40	4.13E+03	3.57E+02	2.20E+02	
TG	08	523906001	10/7/2020	La-140	-5.09E+00	7.52E+00	2.16E+01	U
TG	08	523906001	10/7/2020	Mn-54	9.89E+00	7.25E+00	1.76E+01	U
TG	08	523906001	10/7/2020	Nb-95	8.30E+00	7.10E+00	2.35E+01	U
TG	08	523906001	10/7/2020	Ru-103	5.93E+00	6.33E+00	2.14E+01	U
TG	08	523906001	10/7/2020	Ru-106	8.33E+00	5.92E+01	1.94E+02	U
TG	08	523906001	10/7/2020	Sb-124	-2.02E+00	1.15E+01	3.58E+01	U
TG	08	523906001	10/7/2020	Sb-125	6.64E+00	1.65E+01	5.61E+01	U
TG	08	523906001	10/7/2020	Se-75	1.57E+01	8.98E+00	2.60E+01	U
TG	08	523906001	10/7/2020	Th-228	7.89E+01	2.17E+01	2.80E+01	
TG	08	523906001	10/7/2020	Zn-65	6.80E+00	1.65E+01	5.00E+01	U
TG	08	523906001	10/7/2020	Zr-95	2.54E+01	1.25E+01	4.06E+01	U
TG	09	511871002	5/20/2020	Ac-228	1.60E+01	1.99E+01	4.37E+01	U
TG	09	511871002	5/20/2020	Ag-108m	-9.46E-01	1.91E+00	6.12E+00	U
TG	09	511871002	5/20/2020	Ag-110m	1.95E+00	4.42E+00	1.29E+01	U
TG	09	511871002	5/20/2020	Ba-140	-8.36E+00	1.22E+01	3.78E+01	U
TG	09	511871002	5/20/2020	Be-7	1.59E+02	4.67E+01	6.55E+01	
TG	09	511871002	5/20/2020	Ce-141	-3.28E+00	3.89E+00	1.10E+01	U
TG	09	511871002	5/20/2020	Ce-144	-6.65E+00	1.32E+01	4.08E+01	U
TG	09	511871002	5/20/2020	Co-57	-1.14E-01	1.55E+00	4.95E+00	U
TG	09	511871002	5/20/2020	Co-58	-2.53E+00	3.02E+00	7.89E+00	U
TG	09	511871002	5/20/2020	Co-60	4.19E+00	3.15E+00	9.19E+00	U
TG	09	511871002	5/20/2020	Cr-51	-3.36E+01	2.03E+01	5.86E+01	U
TG	09	511871002	5/20/2020	Cs-134	-7.72E-01	2.50E+00	8.35E+00	U
TG	09	511871002	5/20/2020	Cs-137	-1.98E-01	2.52E+00	8.06E+00	U
TG	09	511871002	5/20/2020	Fe-59	2.23E+00	5.12E+00	1.74E+01	U
TG	09	511871002	5/20/2020	I-131	2.93E+00	3.76E+00	1.27E+01	U
TG	09	511871002	5/20/2020	K-40	4.17E+03	2.33E+02	8.47E+01	
TG	09	511871002	5/20/2020	La-140	-5.40E+00	3.96E+00	1.02E+01	U
TG	09	511871002	5/20/2020	Mn-54	2.86E+00	2.56E+00	8.04E+00	U
TG	09	511871002	5/20/2020	Nb-95	-1.70E+00	3.01E+00	8.21E+00	U
TG	09	511871002	5/20/2020	Ru-103	-4.49E-02	2.23E+00	7.28E+00	U
TG	09	511871002	5/20/2020	Ru-106	4.09E+01	2.53E+01	8.15E+01	U
TG	09	511871002	5/20/2020	Sb-124	3.30E+00	5.05E+00	1.72E+01	U
TG	09	511871002	5/20/2020	Sb-125	-3.74E+00	5.29E+00	1.66E+01	U
TG	09	511871002	5/20/2020	Se-75	2.39E+00	2.56E+00	8.78E+00	U
TG	09	511871002	5/20/2020	Th-228	2.56E+00	5.90E+00	1.41E+01	U
TG	09	511871002	5/20/2020	Zn-65	-7.68E+00	7.09E+00	2.15E+01	U
TG	09	511871002	5/20/2020	Zr-95	-2.16E+00	4.05E+00	1.23E+01	U
TG	09	514168005	6/17/2020	Ac-228	4.63E+01	6.70E+01	9.49E+01	U
TG	09	514168005	6/17/2020	Ag-108m	-4.67E+00	6.38E+00	1.99E+01	U
TG	09	514168005	6/17/2020	Ag-110m	-1.38E+01	1.30E+01	2.58E+01	U
TG	09	514168005	6/17/2020	Ba-140	-5.89E+00	3.45E+01	1.12E+02	U
TG	09	514168005	6/17/2020	Be-7	4.24E+02	1.42E+02	2.01E+02	
TG	09	514168005	6/17/2020	Ce-141	-6.08E+01	1.99E+01	3.66E+01	U
TG	09	514168005	6/17/2020	Ce-144	3.52E+01	4.66E+01	1.59E+02	U
TG	09	514168005	6/17/2020	Co-57	1.77E+00	5.91E+00	2.02E+01	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
TG	09	514168005	6/17/2020	Co-58	-6.98E-01	7.09E+00	2.28E+01	U
TG	09	514168005	6/17/2020	Co-60	1.16E+01	2.06E+01	3.25E+01	U
TG	09	514168005	6/17/2020	Cr-51	4.12E+01	7.20E+01	2.43E+02	U
TG	09	514168005	6/17/2020	Cs-134	-9.44E+00	8.86E+00	2.54E+01	U
TG	09	514168005	6/17/2020	Cs-137	9.80E+00	9.42E+00	2.90E+01	U
TG	09	514168005	6/17/2020	Fe-59	2.06E+00	1.63E+01	5.28E+01	U
TG	09	514168005	6/17/2020	I-131	-3.17E+00	1.25E+01	4.11E+01	U
TG	09	514168005	6/17/2020	K-40	3.98E+03	4.17E+02	2.45E+02	
TG	09	514168005	6/17/2020	La-140	2.20E+00	1.06E+01	3.65E+01	U
TG	09	514168005	6/17/2020	Mn-54	8.57E-02	8.20E+00	2.65E+01	U
TG	09	514168005	6/17/2020	Nb-95	9.10E+00	9.77E+00	3.26E+01	U
TG	09	514168005	6/17/2020	Ru-103	-4.23E+00	7.53E+00	2.38E+01	U
TG	09	514168005	6/17/2020	Ru-106	-4.68E+01	6.93E+01	2.14E+02	U
TG	09	514168005	6/17/2020	Sb-124	4.66E+00	1.62E+01	5.64E+01	U
TG	09	514168005	6/17/2020	Sb-125	4.87E+01	2.44E+01	7.86E+01	U
TG	09	514168005	6/17/2020	Se-75	-2.28E+00	9.81E+00	3.25E+01	U
TG	09	514168005	6/17/2020	Th-228	-1.04E+01	1.78E+01	5.59E+01	U
TG	09	514168005	6/17/2020	Zn-65	-2.81E+00	2.07E+01	5.80E+01	U
TG	09	514168005	6/17/2020	Zr-95	5.02E-01	1.35E+01	4.39E+01	U
TG	09	516040005	7/14/2020	Ac-228	1.01E+02	5.41E+01	1.23E+02	U
TG	09	516040005	7/14/2020	Ag-108m	-2.64E-01	7.89E+00	2.20E+01	U
TG	09	516040005	7/14/2020	Ag-110m	1.45E+01	8.85E+00	3.04E+01	U
TG	09	516040005	7/14/2020	Ba-140	-6.16E+00	3.22E+01	1.04E+02	U
TG	09	516040005	7/14/2020	Be-7	5.41E+02	1.06E+02	2.05E+02	
TG	09	516040005	7/14/2020	Ce-141	2.28E+00	1.02E+01	3.22E+01	U
TG	09	516040005	7/14/2020	Ce-144	-2.26E+01	3.84E+01	1.18E+02	U
TG	09	516040005	7/14/2020	Co-57	5.56E+00	4.88E+00	1.55E+01	U
TG	09	516040005	7/14/2020	Co-58	-9.31E-01	6.76E+00	2.28E+01	U
TG	09	516040005	7/14/2020	Co-60	8.97E-01	7.07E+00	2.34E+01	U
TG	09	516040005	7/14/2020	Cr-51	-8.70E+01	6.48E+01	1.70E+02	U
TG	09	516040005	7/14/2020	Cs-134	-4.10E+00	6.68E+00	2.17E+01	U
TG	09	516040005	7/14/2020	Cs-137	-7.95E-01	6.72E+00	2.14E+01	U
TG	09	516040005	7/14/2020	Fe-59	-8.33E+00	1.37E+01	3.69E+01	U
TG	09	516040005	7/14/2020	I-131	1.03E+01	1.04E+01	3.51E+01	U
TG	09	516040005	7/14/2020	K-40	3.76E+03	3.34E+02	1.70E+02	
TG	09	516040005	7/14/2020	La-140	8.88E+00	8.29E+00	2.93E+01	U
TG	09	516040005	7/14/2020	Mn-54	5.61E+00	6.90E+00	2.39E+01	U
TG	09	516040005	7/14/2020	Nb-95	2.86E+00	8.78E+00	2.53E+01	U
TG	09	516040005	7/14/2020	Ru-103	4.31E+00	6.70E+00	2.14E+01	U
TG	09	516040005	7/14/2020	Ru-106	-9.30E+00	5.67E+01	1.81E+02	U
TG	09	516040005	7/14/2020	Sb-124	-1.49E+00	1.10E+01	3.47E+01	U
TG	09	516040005	7/14/2020	Sb-125	2.24E+01	2.74E+01	5.46E+01	U
TG	09	516040005	7/14/2020	Se-75	-2.18E+00	7.27E+00	2.43E+01	U
TG	09	516040005	7/14/2020	Th-228	0.00E+00	3.07E+01	3.98E+01	U
TG	09	516040005	7/14/2020	Zn-65	6.88E+00	1.38E+01	4.72E+01	U
TG	09	516040005	7/14/2020	Zr-95	-1.73E+01	1.49E+01	3.62E+01	U
TG	09	518831005	8/12/2020	Ac-228	7.49E+01	5.59E+01	1.50E+02	U
TG	09	518831005	8/12/2020	Ag-108m	-4.72E+00	7.64E+00	2.31E+01	U
TG	09	518831005	8/12/2020	Ag-110m	-1.22E+01	1.22E+01	3.60E+01	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
TG	09	518831005	8/12/2020	Ba-140	-6.12E+01	4.31E+01	1.00E+02	U
TG	09	518831005	8/12/2020	Be-7	9.61E+02	1.63E+02	2.13E+02	
TG	09	518831005	8/12/2020	Ce-141	9.75E+00	1.27E+01	4.25E+01	U
TG	09	518831005	8/12/2020	Ce-144	-1.24E+02	5.47E+01	1.33E+02	U
TG	09	518831005	8/12/2020	Co-57	1.43E+01	1.15E+01	1.88E+01	U
TG	09	518831005	8/12/2020	Co-58	1.97E+00	8.05E+00	2.76E+01	U
TG	09	518831005	8/12/2020	Co-60	-6.54E+00	8.54E+00	2.47E+01	U
TG	09	518831005	8/12/2020	Cr-51	-2.51E+01	6.84E+01	2.15E+02	U
TG	09	518831005	8/12/2020	Cs-134	-1.31E+01	1.08E+01	2.57E+01	U
TG	09	518831005	8/12/2020	Cs-137	1.01E+01	8.21E+00	2.92E+01	U
TG	09	518831005	8/12/2020	Fe-59	2.63E+01	1.83E+01	6.14E+01	U
TG	09	518831005	8/12/2020	I-131	1.03E+01	1.42E+01	4.72E+01	U
TG	09	518831005	8/12/2020	K-40	5.43E+03	4.28E+02	2.05E+02	
TG	09	518831005	8/12/2020	La-140	5.13E+00	1.28E+01	4.38E+01	U
TG	09	518831005	8/12/2020	Mn-54	-1.73E-01	9.05E+00	3.03E+01	U
TG	09	518831005	8/12/2020	Nb-95	8.44E+00	9.91E+00	3.12E+01	U
TG	09	518831005	8/12/2020	Ru-103	1.64E+01	1.18E+01	2.18E+01	U
TG	09	518831005	8/12/2020	Ru-106	-1.65E+01	7.99E+01	2.68E+02	U
TG	09	518831005	8/12/2020	Sb-124	1.87E+01	1.66E+01	6.27E+01	U
TG	09	518831005	8/12/2020	Sb-125	-4.80E+00	2.21E+01	6.96E+01	U
TG	09	518831005	8/12/2020	Se-75	-1.74E+01	1.14E+01	3.16E+01	U
TG	09	518831005	8/12/2020	Th-228	1.80E+01	2.02E+01	4.52E+01	U
TG	09	518831005	8/12/2020	Zn-65	-6.24E+00	2.21E+01	7.15E+01	U
TG	09	518831005	8/12/2020	Zr-95	1.72E+01	1.97E+01	6.22E+01	U
TG	09	521446002	9/9/2020	Ac-228	1.10E+01	2.75E+01	7.86E+01	U
TG	09	521446002	9/9/2020	Ag-108m	3.28E+00	4.15E+00	1.26E+01	U
TG	09	521446002	9/9/2020	Ag-110m	-3.44E+00	6.80E+00	2.22E+01	U
TG	09	521446002	9/9/2020	Ba-140	9.88E+00	2.19E+01	7.26E+01	U
TG	09	521446002	9/9/2020	Be-7	1.43E+03	1.20E+02	1.14E+02	
TG	09	521446002	9/9/2020	Ce-141	-7.82E-01	7.50E+00	2.13E+01	U
TG	09	521446002	9/9/2020	Ce-144	9.35E-01	2.40E+01	7.50E+01	U
TG	09	521446002	9/9/2020	Co-57	1.80E+00	3.34E+00	1.06E+01	U
TG	09	521446002	9/9/2020	Co-58	-1.52E+00	4.93E+00	1.52E+01	U
TG	09	521446002	9/9/2020	Co-60	1.13E+01	6.23E+00	1.99E+01	U
TG	09	521446002	9/9/2020	Cr-51	1.89E+01	3.98E+01	1.35E+02	U
TG	09	521446002	9/9/2020	Cs-134	5.28E+00	4.98E+00	1.52E+01	U
TG	09	521446002	9/9/2020	Cs-137	2.24E+00	4.76E+00	1.57E+01	U
TG	09	521446002	9/9/2020	Fe-59	2.39E+00	8.48E+00	2.89E+01	U
TG	09	521446002	9/9/2020	I-131	1.96E+00	7.29E+00	2.45E+01	U
TG	09	521446002	9/9/2020	K-40	3.16E+03	2.55E+02	1.37E+02	
TG	09	521446002	9/9/2020	La-140	3.16E+00	7.15E+00	2.43E+01	U
TG	09	521446002	9/9/2020	Mn-54	2.61E+00	4.87E+00	1.52E+01	U
TG	09	521446002	9/9/2020	Nb-95	-2.84E+00	6.47E+00	1.77E+01	U
TG	09	521446002	9/9/2020	Ru-103	5.47E-01	4.28E+00	1.41E+01	U
TG	09	521446002	9/9/2020	Ru-106	-5.84E+01	4.31E+01	1.20E+02	U
TG	09	521446002	9/9/2020	Sb-124	-5.97E+00	1.27E+01	3.89E+01	U
TG	09	521446002	9/9/2020	Sb-125	-1.65E+01	1.32E+01	3.38E+01	U
TG	09	521446002	9/9/2020	Se-75	-1.14E+01	1.02E+01	1.78E+01	U
TG	09	521446002	9/9/2020	Th-228	8.96E+00	9.68E+00	2.92E+01	U
TG	09	521446002	9/9/2020	Zn-65	2.37E+01	1.19E+01	3.41E+01	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
TG	09	521446002	9/9/2020	Zr-95	4.19E+00	9.67E+00	2.83E+01	U
TG	09	523906002	10/7/2020	Ac-228	1.71E+02	5.96E+01	7.40E+01	
TG	09	523906002	10/7/2020	Ag-108m	2.39E+00	4.31E+00	1.47E+01	U
TG	09	523906002	10/7/2020	Ag-110m	-2.59E-01	7.49E+00	2.38E+01	U
TG	09	523906002	10/7/2020	Ba-140	1.97E+01	2.47E+01	8.39E+01	U
TG	09	523906002	10/7/2020	Be-7	1.05E+03	1.26E+02	1.49E+02	
TG	09	523906002	10/7/2020	Ce-141	-2.39E+01	1.14E+01	2.34E+01	U
TG	09	523906002	10/7/2020	Ce-144	1.30E+01	2.97E+01	9.66E+01	U
TG	09	523906002	10/7/2020	Co-57	6.14E+00	3.97E+00	1.27E+01	U
TG	09	523906002	10/7/2020	Co-58	1.22E+01	6.44E+00	2.13E+01	U
TG	09	523906002	10/7/2020	Co-60	1.00E+00	5.24E+00	1.78E+01	U
TG	09	523906002	10/7/2020	Cr-51	-8.97E+01	4.94E+01	1.39E+02	U
TG	09	523906002	10/7/2020	Cs-134	-4.80E+00	8.22E+00	2.15E+01	U
TG	09	523906002	10/7/2020	Cs-137	3.93E+00	5.95E+00	2.00E+01	U
TG	09	523906002	10/7/2020	Fe-59	5.67E+00	1.35E+01	4.51E+01	U
TG	09	523906002	10/7/2020	I-131	4.47E+00	7.98E+00	2.74E+01	U
TG	09	523906002	10/7/2020	K-40	0.00E+00	4.08E+02	1.91E+02	U
TG	09	523906002	10/7/2020	La-140	-1.52E+01	9.69E+00	2.37E+01	U
TG	09	523906002	10/7/2020	Mn-54	-3.70E+00	5.83E+00	1.75E+01	U
TG	09	523906002	10/7/2020	Nb-95	-6.88E+00	6.58E+00	1.91E+01	U
TG	09	523906002	10/7/2020	Ru-103	-1.62E+00	5.88E+00	1.92E+01	U
TG	09	523906002	10/7/2020	Ru-106	-1.41E+02	6.41E+01	1.51E+02	U
TG	09	523906002	10/7/2020	Sb-124	-2.68E+00	1.26E+01	3.97E+01	U
TG	09	523906002	10/7/2020	Sb-125	1.45E+01	1.60E+01	5.46E+01	U
TG	09	523906002	10/7/2020	Se-75	5.56E+00	6.23E+00	2.17E+01	U
TG	09	523906002	10/7/2020	Th-228	3.98E+00	2.01E+01	2.94E+01	U
TG	09	523906002	10/7/2020	Zn-65	8.61E+00	1.40E+01	4.39E+01	U
TG	09	523906002	10/7/2020	Zr-95	-1.27E+01	1.08E+01	3.03E+01	U
TG	10	511871003	5/20/2020	Ac-228	-6.47E+00	1.46E+01	4.33E+01	U
TG	10	511871003	5/20/2020	Ag-108m	-7.43E-01	2.47E+00	7.05E+00	U
TG	10	511871003	5/20/2020	Ag-110m	-3.79E+00	3.71E+00	1.13E+01	U
TG	10	511871003	5/20/2020	Ba-140	8.65E+00	1.28E+01	4.19E+01	U
TG	10	511871003	5/20/2020	Be-7	3.43E+02	4.11E+01	6.06E+01	
TG	10	511871003	5/20/2020	Ce-141	9.10E+00	7.27E+00	1.12E+01	U
TG	10	511871003	5/20/2020	Ce-144	-2.29E+01	1.47E+01	4.10E+01	U
TG	10	511871003	5/20/2020	Co-57	2.64E-01	1.74E+00	5.59E+00	U
TG	10	511871003	5/20/2020	Co-58	4.51E+00	2.71E+00	9.11E+00	U
TG	10	511871003	5/20/2020	Co-60	-5.36E-01	2.88E+00	9.61E+00	U
TG	10	511871003	5/20/2020	Cr-51	1.67E+01	2.19E+01	7.37E+01	U
TG	10	511871003	5/20/2020	Cs-134	-2.51E+00	2.73E+00	8.46E+00	U
TG	10	511871003	5/20/2020	Cs-137	6.87E+00	3.65E+00	8.60E+00	U
TG	10	511871003	5/20/2020	Fe-59	2.09E+00	5.56E+00	1.84E+01	U
TG	10	511871003	5/20/2020	I-131	1.83E+00	4.04E+00	1.35E+01	U
TG	10	511871003	5/20/2020	K-40	3.67E+03	2.15E+02	8.81E+01	
TG	10	511871003	5/20/2020	La-140	1.10E+01	5.37E+00	1.50E+01	U
TG	10	511871003	5/20/2020	Mn-54	3.40E-01	2.60E+00	8.73E+00	U
TG	10	511871003	5/20/2020	Nb-95	-2.00E+00	2.72E+00	8.67E+00	U
TG	10	511871003	5/20/2020	Ru-103	-1.03E+00	3.41E+00	7.77E+00	U
TG	10	511871003	5/20/2020	Ru-106	1.42E+01	2.28E+01	7.40E+01	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
TG	10	511871003	5/20/2020	Sb-124	-1.08E+00	5.62E+00	1.82E+01	U
TG	10	511871003	5/20/2020	Sb-125	-4.30E+00	6.48E+00	2.03E+01	U
TG	10	511871003	5/20/2020	Se-75	2.50E+00	3.17E+00	1.08E+01	U
TG	10	511871003	5/20/2020	Th-228	5.02E+00	7.93E+00	1.73E+01	U
TG	10	511871003	5/20/2020	Zn-65	-1.40E+01	7.55E+00	1.86E+01	U
TG	10	511871003	5/20/2020	Zr-95	-1.08E+00	4.67E+00	1.55E+01	U
TG	10	514168006	6/17/2020	Ac-228	1.24E+02	4.33E+01	1.29E+02	U
TG	10	514168006	6/17/2020	Ag-108m	5.90E-01	6.18E+00	1.90E+01	U
TG	10	514168006	6/17/2020	Ag-110m	-7.08E+00	1.21E+01	3.35E+01	U
TG	10	514168006	6/17/2020	Ba-140	-9.42E+01	4.51E+01	9.75E+01	U
TG	10	514168006	6/17/2020	Be-7	5.39E+02	1.15E+02	1.79E+02	
TG	10	514168006	6/17/2020	Ce-141	-8.57E-01	1.08E+01	3.57E+01	U
TG	10	514168006	6/17/2020	Ce-144	4.34E+00	3.97E+01	1.32E+02	U
TG	10	514168006	6/17/2020	Co-57	4.68E+00	5.46E+00	1.83E+01	U
TG	10	514168006	6/17/2020	Co-58	9.95E+00	7.64E+00	2.64E+01	U
TG	10	514168006	6/17/2020	Co-60	-8.39E+00	8.07E+00	2.32E+01	U
TG	10	514168006	6/17/2020	Cr-51	-1.72E+01	6.13E+01	1.96E+02	U
TG	10	514168006	6/17/2020	Cs-134	5.91E+00	7.81E+00	2.71E+01	U
TG	10	514168006	6/17/2020	Cs-137	1.33E+01	9.77E+00	3.03E+01	U
TG	10	514168006	6/17/2020	Fe-59	5.15E+00	1.65E+01	5.56E+01	U
TG	10	514168006	6/17/2020	I-131	1.94E+00	1.24E+01	4.01E+01	U
TG	10	514168006	6/17/2020	K-40	5.02E+03	3.81E+02	2.53E+02	
TG	10	514168006	6/17/2020	La-140	-3.06E+00	1.27E+01	4.04E+01	U
TG	10	514168006	6/17/2020	Mn-54	1.15E+01	7.60E+00	2.61E+01	U
TG	10	514168006	6/17/2020	Nb-95	4.50E+00	7.18E+00	2.23E+01	U
TG	10	514168006	6/17/2020	Ru-103	-9.43E+00	7.91E+00	2.25E+01	U
TG	10	514168006	6/17/2020	Ru-106	8.56E+01	7.08E+01	2.23E+02	U
TG	10	514168006	6/17/2020	Sb-124	-3.30E+01	1.94E+01	3.00E+01	U
TG	10	514168006	6/17/2020	Sb-125	8.31E+00	1.91E+01	6.22E+01	U
TG	10	514168006	6/17/2020	Se-75	-2.80E+00	9.02E+00	2.89E+01	U
TG	10	514168006	6/17/2020	Th-228	-2.37E+01	1.67E+01	4.23E+01	U
TG	10	514168006	6/17/2020	Zn-65	1.01E+01	1.68E+01	5.73E+01	U
TG	10	514168006	6/17/2020	Zr-95	3.47E+00	1.45E+01	4.38E+01	U
TG	10	516040006	7/14/2020	Ac-228	3.59E+01	3.48E+01	8.52E+01	U
TG	10	516040006	7/14/2020	Ag-108m	3.22E+00	4.21E+00	1.40E+01	U
TG	10	516040006	7/14/2020	Ag-110m	8.50E+00	8.56E+00	2.06E+01	U
TG	10	516040006	7/14/2020	Ba-140	1.19E+01	2.48E+01	8.08E+01	U
TG	10	516040006	7/14/2020	Be-7	1.07E+03	1.06E+02	1.41E+02	
TG	10	516040006	7/14/2020	Ce-141	-3.81E-01	7.18E+00	2.27E+01	U
TG	10	516040006	7/14/2020	Ce-144	-2.12E+01	2.65E+01	8.05E+01	U
TG	10	516040006	7/14/2020	Co-57	3.33E+00	3.54E+00	1.14E+01	U
TG	10	516040006	7/14/2020	Co-58	7.86E+00	4.97E+00	1.69E+01	U
TG	10	516040006	7/14/2020	Co-60	9.99E+00	1.31E+01	1.85E+01	U
TG	10	516040006	7/14/2020	Cr-51	5.90E+01	4.29E+01	1.42E+02	U
TG	10	516040006	7/14/2020	Cs-134	6.71E+00	7.30E+00	1.70E+01	U
TG	10	516040006	7/14/2020	Cs-137	2.00E+00	5.34E+00	1.83E+01	U
TG	10	516040006	7/14/2020	Fe-59	-2.52E+00	1.10E+01	3.51E+01	U
TG	10	516040006	7/14/2020	I-131	-5.90E+00	6.99E+00	2.18E+01	U
TG	10	516040006	7/14/2020	K-40	2.43E+03	2.04E+02	1.53E+02	

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
TG	10	516040006	7/14/2020	La-140	-3.65E-01	7.26E+00	2.40E+01	U
TG	10	516040006	7/14/2020	Mn-54	-7.69E+00	4.95E+00	1.38E+01	U
TG	10	516040006	7/14/2020	Nb-95	6.16E+00	5.07E+00	1.74E+01	U
TG	10	516040006	7/14/2020	Ru-103	-3.62E+00	5.68E+00	1.55E+01	U
TG	10	516040006	7/14/2020	Ru-106	5.74E+01	4.64E+01	1.51E+02	U
TG	10	516040006	7/14/2020	Sb-124	6.79E+00	1.18E+01	4.07E+01	U
TG	10	516040006	7/14/2020	Sb-125	2.96E+00	1.52E+01	4.45E+01	U
TG	10	516040006	7/14/2020	Se-75	-5.58E+00	6.09E+00	1.95E+01	U
TG	10	516040006	7/14/2020	Th-228	4.56E+00	1.26E+01	3.19E+01	U
TG	10	516040006	7/14/2020	Zn-65	-1.16E+01	1.32E+01	3.36E+01	U
TG	10	516040006	7/14/2020	Zr-95	-4.29E+00	9.89E+00	2.81E+01	U
TG	10	518831006	8/12/2020	Ac-228	-8.63E+00	3.48E+01	1.13E+02	U
TG	10	518831006	8/12/2020	Ag-108m	-1.95E+00	5.92E+00	1.92E+01	U
TG	10	518831006	8/12/2020	Ag-110m	-6.54E-01	1.00E+01	3.17E+01	U
TG	10	518831006	8/12/2020	Ba-140	-2.22E+01	2.87E+01	8.62E+01	U
TG	10	518831006	8/12/2020	Be-7	4.88E+02	1.26E+02	1.43E+02	
TG	10	518831006	8/12/2020	Ce-141	-1.71E+01	1.17E+01	2.86E+01	U
TG	10	518831006	8/12/2020	Ce-144	-4.25E+01	4.10E+01	1.19E+02	U
TG	10	518831006	8/12/2020	Co-57	2.16E-02	4.97E+00	1.58E+01	U
TG	10	518831006	8/12/2020	Co-58	9.52E+00	6.47E+00	2.29E+01	U
TG	10	518831006	8/12/2020	Co-60	1.69E+00	7.70E+00	2.63E+01	U
TG	10	518831006	8/12/2020	Cr-51	2.11E+01	5.45E+01	1.88E+02	U
TG	10	518831006	8/12/2020	Cs-134	4.27E+00	7.79E+00	2.39E+01	U
TG	10	518831006	8/12/2020	Cs-137	5.30E-01	7.44E+00	2.27E+01	U
TG	10	518831006	8/12/2020	Fe-59	-1.27E+01	1.67E+01	5.18E+01	U
TG	10	518831006	8/12/2020	I-131	-2.54E+00	1.00E+01	3.31E+01	U
TG	10	518831006	8/12/2020	K-40	5.16E+03	4.17E+02	9.00E+01	
TG	10	518831006	8/12/2020	La-140	-6.57E+00	1.05E+01	3.04E+01	U
TG	10	518831006	8/12/2020	Mn-54	-5.28E+00	8.29E+00	2.47E+01	U
TG	10	518831006	8/12/2020	Nb-95	-1.18E+00	6.74E+00	2.13E+01	U
TG	10	518831006	8/12/2020	Ru-103	2.88E+00	5.76E+00	1.97E+01	U
TG	10	518831006	8/12/2020	Ru-106	-1.53E+01	5.87E+01	1.87E+02	U
TG	10	518831006	8/12/2020	Sb-124	7.56E+00	2.08E+01	7.10E+01	U
TG	10	518831006	8/12/2020	Sb-125	5.07E+00	1.52E+01	5.18E+01	U
TG	10	518831006	8/12/2020	Se-75	-1.15E+01	8.48E+00	2.54E+01	U
TG	10	518831006	8/12/2020	Th-228	2.59E+01	2.48E+01	3.58E+01	U
TG	10	518831006	8/12/2020	Zn-65	1.65E+01	1.51E+01	5.08E+01	U
TG	10	518831006	8/12/2020	Zr-95	-9.01E+00	1.27E+01	3.74E+01	U
TG	10	521446003	9/9/2020	Ac-228	9.60E+01	4.21E+01	1.07E+02	U
TG	10	521446003	9/9/2020	Ag-108m	3.98E+00	4.49E+00	1.55E+01	U
TG	10	521446003	9/9/2020	Ag-110m	6.61E+00	6.67E+00	2.28E+01	U
TG	10	521446003	9/9/2020	Ba-140	-2.10E+01	2.82E+01	8.88E+01	U
TG	10	521446003	9/9/2020	Be-7	1.11E+03	1.12E+02	1.40E+02	
TG	10	521446003	9/9/2020	Ce-141	-8.14E+00	8.98E+00	2.76E+01	U
TG	10	521446003	9/9/2020	Ce-144	5.96E+00	3.31E+01	1.08E+02	U
TG	10	521446003	9/9/2020	Co-57	5.23E+00	4.29E+00	1.40E+01	U
TG	10	521446003	9/9/2020	Co-58	1.66E+00	5.37E+00	1.78E+01	U
TG	10	521446003	9/9/2020	Co-60	2.99E+00	6.52E+00	2.26E+01	U
TG	10	521446003	9/9/2020	Cr-51	-8.48E+01	5.21E+01	1.55E+02	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD.DEV. (pCi/kg)	MDC (pCi/kg)	FLAGS
TG	10	521446003	9/9/2020	Cs-134	2.55E+00	6.65E+00	2.20E+01	U
TG	10	521446003	9/9/2020	Cs-137	-2.14E+00	5.71E+00	1.83E+01	U
TG	10	521446003	9/9/2020	Fe-59	-6.54E+00	1.23E+01	3.66E+01	U
TG	10	521446003	9/9/2020	I-131	-2.03E+01	1.05E+01	2.89E+01	U
TG	10	521446003	9/9/2020	K-40	3.21E+03	3.04E+02	1.87E+02	
TG	10	521446003	9/9/2020	La-140	-8.17E+00	1.03E+01	3.08E+01	U
TG	10	521446003	9/9/2020	Mn-54	2.09E+00	5.27E+00	1.75E+01	U
TG	10	521446003	9/9/2020	Nb-95	-3.42E+00	5.64E+00	1.74E+01	U
TG	10	521446003	9/9/2020	Ru-103	-9.03E+00	5.40E+00	1.49E+01	U
TG	10	521446003	9/9/2020	Ru-106	5.28E+01	5.32E+01	1.40E+02	U
TG	10	521446003	9/9/2020	Sb-124	8.76E+00	9.34E+00	3.45E+01	U
TG	10	521446003	9/9/2020	Sb-125	1.88E+01	1.43E+01	4.90E+01	U
TG	10	521446003	9/9/2020	Se-75	-3.40E-01	8.48E+00	2.26E+01	U
TG	10	521446003	9/9/2020	Th-228	7.90E+00	1.79E+01	3.27E+01	U
TG	10	521446003	9/9/2020	Zn-65	-2.27E+01	1.46E+01	4.10E+01	U
TG	10	521446003	9/9/2020	Zr-95	6.24E+00	1.03E+01	3.46E+01	U
TG	10	523906003	10/7/2020	Ac-228	1.35E+02	3.99E+01	5.76E+01	
TG	10	523906003	10/7/2020	Ag-108m	-4.34E+00	4.31E+00	1.35E+01	U
TG	10	523906003	10/7/2020	Ag-110m	6.03E+00	7.26E+00	2.22E+01	U
TG	10	523906003	10/7/2020	Ba-140	-8.14E+00	2.11E+01	6.90E+01	U
TG	10	523906003	10/7/2020	Be-7	1.05E+03	1.12E+02	1.32E+02	
TG	10	523906003	10/7/2020	Ce-141	-2.01E+01	9.20E+00	2.33E+01	U
TG	10	523906003	10/7/2020	Ce-144	-2.06E+01	3.40E+01	9.72E+01	U
TG	10	523906003	10/7/2020	Co-57	2.30E+00	4.00E+00	1.30E+01	U
TG	10	523906003	10/7/2020	Co-58	-3.76E+00	5.77E+00	1.57E+01	U
TG	10	523906003	10/7/2020	Co-60	-2.87E+00	6.05E+00	1.71E+01	U
TG	10	523906003	10/7/2020	Cr-51	-8.63E+00	4.28E+01	1.45E+02	U
TG	10	523906003	10/7/2020	Cs-134	-2.69E+00	6.08E+00	1.93E+01	U
TG	10	523906003	10/7/2020	Cs-137	-9.30E+00	7.32E+00	1.89E+01	U
TG	10	523906003	10/7/2020	Fe-59	-3.16E+00	9.64E+00	2.99E+01	U
TG	10	523906003	10/7/2020	I-131	4.25E+00	7.01E+00	2.42E+01	U
TG	10	523906003	10/7/2020	K-40	4.64E+03	3.42E+02	1.56E+02	
TG	10	523906003	10/7/2020	La-140	-3.30E+00	6.72E+00	2.12E+01	U
TG	10	523906003	10/7/2020	Mn-54	-1.01E+00	4.91E+00	1.58E+01	U
TG	10	523906003	10/7/2020	Nb-95	-2.87E+00	5.93E+00	1.88E+01	U
TG	10	523906003	10/7/2020	Ru-103	-5.03E+00	4.74E+00	1.46E+01	U
TG	10	523906003	10/7/2020	Ru-106	1.21E+02	7.35E+01	1.28E+02	U
TG	10	523906003	10/7/2020	Sb-124	-2.08E+01	1.16E+01	2.69E+01	U
TG	10	523906003	10/7/2020	Sb-125	-2.76E+00	1.31E+01	4.38E+01	U
TG	10	523906003	10/7/2020	Se-75	-1.30E+01	7.44E+00	1.96E+01	U
TG	10	523906003	10/7/2020	Th-228	1.71E+01	1.37E+01	3.43E+01	U
TG	10	523906003	10/7/2020	Zn-65	1.90E+01	1.27E+01	3.92E+01	U
TG	10	523906003	10/7/2020	Zr-95	1.23E+01	1.29E+01	3.13E+01	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
TM	15	501554001	1/15/2020	Ac-228	-5.18E+00	4.65E+00	9.07E+00	U
TM	15	501554001	1/15/2020	Ag-108m	6.06E-01	5.24E-01	1.68E+00	U
TM	15	501554001	1/15/2020	Ag-110m	-8.92E-01	8.59E-01	2.65E+00	U
TM	15	501554001	1/15/2020	Ba-140	1.19E+00	2.63E+00	8.41E+00	U
TM	15	501554001	1/15/2020	Be-7	1.08E+01	5.40E+00	1.63E+01	U
TM	15	501554001	1/15/2020	Bi-214	0.00E+00	2.82E+00	4.73E+00	U
TM	15	501554001	1/15/2020	Ce-141	-1.64E+00	1.04E+00	3.22E+00	U
TM	15	501554001	1/15/2020	Ce-144	2.61E-01	3.56E+00	1.22E+01	U
TM	15	501554001	1/15/2020	Co-57	1.73E-01	4.90E-01	1.69E+00	U
TM	15	501554001	1/15/2020	Co-58	9.25E-01	6.10E-01	1.99E+00	U
TM	15	501554001	1/15/2020	Co-60	2.53E-01	6.70E-01	2.28E+00	U
TM	15	501554001	1/15/2020	Cr-51	-1.05E+00	5.05E+00	1.64E+01	U
TM	15	501554001	1/15/2020	Cs-134	-1.18E+00	1.02E+00	1.97E+00	U
TM	15	501554001	1/15/2020	Cs-137	8.58E+00	1.17E+00	1.87E+00	M
TM	15	501554001	1/15/2020	Fe-59	1.90E+00	1.45E+00	4.68E+00	U
TM	15	501554001	1/15/2020	I-131	-5.19E-02	1.46E-01	4.81E-01	U
TM	15	501554001	1/15/2020	I-131	6.81E-01	8.96E-01	2.92E+00	U
TM	15	501554001	1/15/2020	K-40	1.59E+03	9.18E+01	1.86E+01	
TM	15	501554001	1/15/2020	La-140	-5.50E-01	8.17E-01	2.59E+00	U
TM	15	501554001	1/15/2020	Mn-54	-5.46E-01	5.71E-01	1.78E+00	U
TM	15	501554001	1/15/2020	Nb-95	8.79E-01	9.62E-01	2.07E+00	U
TM	15	501554001	1/15/2020	Pb-212	1.80E+00	2.38E+00	4.44E+00	U
TM	15	501554001	1/15/2020	Pb-214	4.40E+00	3.21E+00	4.73E+00	U
TM	15	501554001	1/15/2020	Ru-103	-3.31E-01	5.80E-01	1.80E+00	U
TM	15	501554001	1/15/2020	Ru-106	-2.05E+00	4.82E+00	1.60E+01	U
TM	15	501554001	1/15/2020	Sb-124	-1.59E+00	1.35E+00	3.99E+00	U
TM	15	501554001	1/15/2020	Sb-125	7.23E-01	1.57E+00	5.08E+00	U
TM	15	501554001	1/15/2020	Se-75	-2.86E-01	7.61E-01	2.49E+00	U
TM	15	501554001	1/15/2020	Th-228	1.80E+00	2.38E+00	4.44E+00	U
TM	15	501554001	1/15/2020	Zn-65	4.39E-01	1.50E+00	4.89E+00	U
TM	15	501554001	1/15/2020	Zr-95	-2.55E-01	9.96E-01	3.29E+00	U
TM	15	504490001	2/12/2020	Ac-228	-4.93E+00	3.83E+00	7.73E+00	U
TM	15	504490001	2/12/2020	Ag-108m	-9.24E-03	4.95E-01	1.48E+00	U
TM	15	504490001	2/12/2020	Ag-110m	3.04E-01	7.35E-01	2.38E+00	U
TM	15	504490001	2/12/2020	Ba-140	-1.01E-01	2.72E+00	8.97E+00	U
TM	15	504490001	2/12/2020	Be-7	-1.38E+00	4.59E+00	1.51E+01	U
TM	15	504490001	2/12/2020	Bi-214	1.26E+00	3.09E+00	4.20E+00	U
TM	15	504490001	2/12/2020	Ce-141	-1.91E+00	1.42E+00	2.98E+00	U
TM	15	504490001	2/12/2020	Ce-144	1.18E-01	3.35E+00	1.07E+01	U
TM	15	504490001	2/12/2020	Co-57	-3.83E-01	6.21E-01	1.44E+00	U
TM	15	504490001	2/12/2020	Co-58	-3.52E-01	5.75E-01	1.78E+00	U
TM	15	504490001	2/12/2020	Co-60	-7.01E-01	6.27E-01	1.92E+00	U
TM	15	504490001	2/12/2020	Cr-51	-3.10E-02	4.81E+00	1.63E+01	U
TM	15	504490001	2/12/2020	Cs-134	4.53E-01	5.97E-01	1.95E+00	U
TM	15	504490001	2/12/2020	Cs-137	9.69E+00	1.11E+00	1.60E+00	M
TM	15	504490001	2/12/2020	Fe-59	-1.30E+00	1.38E+00	4.40E+00	U
TM	15	504490001	2/12/2020	I-131	8.60E-02	2.63E-01	8.92E-01	U
TM	15	504490001	2/12/2020	I-131	-4.76E-01	1.02E+00	3.38E+00	U
TM	15	504490001	2/12/2020	K-40	1.66E+03	8.99E+01	1.63E+01	
TM	15	504490001	2/12/2020	La-140	-9.37E-01	6.97E-01	1.92E+00	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
TM	15	504490001	2/12/2020	Mn-54	7.68E-01	6.00E-01	1.75E+00	U
TM	15	504490001	2/12/2020	Nb-95	-2.16E-01	5.61E-01	1.78E+00	U
TM	15	504490001	2/12/2020	Pb-212	5.41E-01	2.57E+00	3.18E+00	U
TM	15	504490001	2/12/2020	Pb-214	6.77E-01	1.73E+00	3.82E+00	U
TM	15	504490001	2/12/2020	Ru-103	1.22E+00	6.48E-01	1.87E+00	U
TM	15	504490001	2/12/2020	Ru-106	1.64E+00	4.51E+00	1.49E+01	U
TM	15	504490001	2/12/2020	Sb-124	-1.43E+00	1.22E+00	3.54E+00	U
TM	15	504490001	2/12/2020	Sb-125	6.51E-01	1.30E+00	4.38E+00	U
TM	15	504490001	2/12/2020	Se-75	-1.51E+00	7.58E-01	2.20E+00	U
TM	15	504490001	2/12/2020	Th-228	5.41E-01	2.57E+00	3.18E+00	U
TM	15	504490001	2/12/2020	Zn-65	-4.77E-01	1.38E+00	4.58E+00	U
TM	15	504490001	2/12/2020	Zr-95	-8.95E-01	1.11E+00	3.43E+00	U
TM	15	506967001	3/11/2020	Ac-228	-5.39E+00	3.81E+00	9.40E+00	U
TM	15	506967001	3/11/2020	Ag-108m	1.67E+00	1.04E+00	1.93E+00	U
TM	15	506967001	3/11/2020	Ag-110m	-6.60E-01	9.04E-01	2.71E+00	U
TM	15	506967001	3/11/2020	Ba-140	3.78E+00	3.05E+00	1.02E+01	U
TM	15	506967001	3/11/2020	Be-7	7.17E-01	5.43E+00	1.82E+01	U
TM	15	506967001	3/11/2020	Bi-214	0.00E+00	2.70E+00	4.17E+00	U
TM	15	506967001	3/11/2020	Ce-141	1.66E+00	2.54E+00	3.47E+00	U
TM	15	506967001	3/11/2020	Ce-144	-9.62E+00	5.02E+00	1.38E+01	U
TM	15	506967001	3/11/2020	Co-57	-6.82E-02	5.68E-01	1.85E+00	U
TM	15	506967001	3/11/2020	Co-58	-5.90E-01	7.21E-01	2.17E+00	U
TM	15	506967001	3/11/2020	Co-60	6.07E-01	7.70E-01	2.62E+00	U
TM	15	506967001	3/11/2020	Cr-51	2.72E-01	6.32E+00	1.95E+01	U
TM	15	506967001	3/11/2020	Cs-134	5.91E-01	7.54E-01	2.48E+00	U
TM	15	506967001	3/11/2020	Cs-137	8.59E+00	1.67E+00	2.34E+00	M
TM	15	506967001	3/11/2020	Fe-59	-1.69E+00	1.56E+00	4.80E+00	U
TM	15	506967001	3/11/2020	I-131	7.62E-01	9.96E-01	3.41E+00	U
TM	15	506967001	3/11/2020	I-131	2.70E-01	2.13E-01	6.46E-01	U
TM	15	506967001	3/11/2020	K-40	1.61E+03	9.24E+01	2.31E+01	
TM	15	506967001	3/11/2020	La-140	1.48E-01	8.66E-01	2.87E+00	U
TM	15	506967001	3/11/2020	Mn-54	-4.94E-01	6.87E-01	2.08E+00	U
TM	15	506967001	3/11/2020	Nb-95	-5.07E-01	6.94E-01	2.12E+00	U
TM	15	506967001	3/11/2020	Pb-212	1.66E+00	2.44E+00	5.03E+00	U
TM	15	506967001	3/11/2020	Pb-214	-2.13E+00	2.23E+00	5.18E+00	U
TM	15	506967001	3/11/2020	Ru-103	-9.84E-01	7.05E-01	2.09E+00	U
TM	15	506967001	3/11/2020	Ru-106	-8.58E+00	5.90E+00	1.68E+01	U
TM	15	506967001	3/11/2020	Sb-124	-9.94E-02	1.34E+00	4.31E+00	U
TM	15	506967001	3/11/2020	Sb-125	5.83E-01	1.65E+00	5.59E+00	U
TM	15	506967001	3/11/2020	Se-75	5.24E-01	9.39E-01	2.97E+00	U
TM	15	506967001	3/11/2020	Th-228	1.66E+00	2.44E+00	5.03E+00	U
TM	15	506967001	3/11/2020	Zn-65	1.16E+00	1.66E+00	5.66E+00	U
TM	15	506967001	3/11/2020	Zr-95	-8.59E-02	1.17E+00	3.77E+00	U
TM	15	509290001	4/9/2020	Ac-228	3.60E+00	4.46E+00	7.95E+00	U
TM	15	509290001	4/9/2020	Ag-108m	-5.03E-01	7.75E-01	1.36E+00	U
TM	15	509290001	4/9/2020	Ag-110m	1.47E+00	7.80E-01	2.50E+00	U
TM	15	509290001	4/9/2020	Ba-140	-4.57E+00	3.50E+00	7.67E+00	U
TM	15	509290001	4/9/2020	Be-7	1.67E+00	4.27E+00	1.41E+01	U
TM	15	509290001	4/9/2020	Bi-214	0.00E+00	2.38E+00	4.33E+00	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
TM	15	509290001	4/9/2020	Ce-141	-1.02E+00	8.97E-01	2.68E+00	U
TM	15	509290001	4/9/2020	Ce-144	-7.60E-01	3.18E+00	1.01E+01	U
TM	15	509290001	4/9/2020	Co-57	-4.65E-02	4.13E-01	1.32E+00	U
TM	15	509290001	4/9/2020	Co-58	-3.14E-01	4.71E-01	1.55E+00	U
TM	15	509290001	4/9/2020	Co-60	8.86E-01	6.19E-01	2.01E+00	U
TM	15	509290001	4/9/2020	Cr-51	-3.86E+00	4.55E+00	1.41E+01	U
TM	15	509290001	4/9/2020	Cs-134	-2.29E-01	5.29E-01	1.77E+00	U
TM	15	509290001	4/9/2020	Cs-137	1.44E+01	1.43E+00	1.63E+00	M
TM	15	509290001	4/9/2020	Fe-59	-2.64E-01	1.18E+00	3.90E+00	U
TM	15	509290001	4/9/2020	I-131	-2.95E-02	7.72E-01	2.58E+00	U
TM	15	509290001	4/9/2020	I-131	-5.90E-01	3.14E-01	6.80E-01	U
TM	15	509290001	4/9/2020	K-40	1.73E+03	8.52E+01	1.53E+01	
TM	15	509290001	4/9/2020	La-140	-4.67E-01	6.47E-01	1.96E+00	U
TM	15	509290001	4/9/2020	Mn-54	7.66E-01	5.36E-01	1.61E+00	U
TM	15	509290001	4/9/2020	Nb-95	5.54E-02	5.15E-01	1.64E+00	U
TM	15	509290001	4/9/2020	Pb-212	2.43E+00	1.64E+00	2.94E+00	U
TM	15	509290001	4/9/2020	Pb-214	-7.72E-01	1.77E+00	3.84E+00	U
TM	15	509290001	4/9/2020	Ru-103	-8.12E-01	5.94E-01	1.56E+00	U
TM	15	509290001	4/9/2020	Ru-106	1.06E+01	4.43E+00	1.36E+01	U
TM	15	509290001	4/9/2020	Sb-124	1.04E+00	1.11E+00	3.28E+00	U
TM	15	509290001	4/9/2020	Sb-125	-1.21E+00	1.31E+00	4.13E+00	U
TM	15	509290001	4/9/2020	Se-75	4.47E-01	6.34E-01	2.15E+00	U
TM	15	509290001	4/9/2020	Th-228	2.43E+00	1.64E+00	2.94E+00	U
TM	15	509290001	4/9/2020	Zn-65	3.00E-01	1.23E+00	4.10E+00	U
TM	15	509290001	4/9/2020	Zr-95	-3.50E-01	9.36E-01	2.93E+00	U
TM	15	510100001	4/22/2020	Ac-228	5.56E+00	5.83E+00	1.60E+01	U
TM	15	510100001	4/22/2020	Ag-108m	-4.14E-01	7.30E-01	2.29E+00	U
TM	15	510100001	4/22/2020	Ag-110m	-2.33E+00	1.55E+00	4.45E+00	U
TM	15	510100001	4/22/2020	Ba-140	-3.20E+00	5.52E+00	1.50E+01	U
TM	15	510100001	4/22/2020	Be-7	8.86E+00	9.88E+00	2.21E+01	U
TM	15	510100001	4/22/2020	Bi-214	7.78E-01	2.61E+00	6.75E+00	U
TM	15	510100001	4/22/2020	Ce-141	-2.36E-01	1.28E+00	4.39E+00	U
TM	15	510100001	4/22/2020	Ce-144	4.02E+00	5.06E+00	1.58E+01	U
TM	15	510100001	4/22/2020	Co-57	3.11E-01	6.54E-01	2.06E+00	U
TM	15	510100001	4/22/2020	Co-58	8.58E-01	1.00E+00	3.41E+00	U
TM	15	510100001	4/22/2020	Co-60	4.74E-01	1.07E+00	3.42E+00	U
TM	15	510100001	4/22/2020	Cr-51	8.10E+00	7.68E+00	2.55E+01	U
TM	15	510100001	4/22/2020	Cs-134	7.77E-01	1.02E+00	3.49E+00	U
TM	15	510100001	4/22/2020	Cs-137	1.42E+01	2.27E+00	3.05E+00	M
TM	15	510100001	4/22/2020	Fe-59	5.12E-01	2.42E+00	7.98E+00	U
TM	15	510100001	4/22/2020	I-131	2.31E-01	2.28E-01	7.71E-01	U
TM	15	510100001	4/22/2020	I-131	1.11E+00	1.49E+00	4.96E+00	U
TM	15	510100001	4/22/2020	K-40	1.63E+03	9.17E+01	3.05E+01	
TM	15	510100001	4/22/2020	La-140	-1.56E-01	1.42E+00	4.72E+00	U
TM	15	510100001	4/22/2020	Mn-54	-1.41E+00	1.01E+00	2.94E+00	U
TM	15	510100001	4/22/2020	Nb-95	7.49E-01	9.57E-01	3.27E+00	U
TM	15	510100001	4/22/2020	Pb-212	2.81E+00	2.56E+00	4.47E+00	U
TM	15	510100001	4/22/2020	Pb-214	-5.29E+00	2.77E+00	5.81E+00	U
TM	15	510100001	4/22/2020	Ru-103	1.21E+00	9.70E-01	3.15E+00	U
TM	15	510100001	4/22/2020	Ru-106	1.94E+00	7.95E+00	2.73E+01	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
TM	15	510100001	4/22/2020	Sb-124	-1.20E+00	2.18E+00	5.79E+00	U
TM	15	510100001	4/22/2020	Sb-125	-1.83E-01	2.99E+00	7.46E+00	U
TM	15	510100001	4/22/2020	Se-75	-8.30E-01	1.05E+00	3.37E+00	U
TM	15	510100001	4/22/2020	Th-228	2.81E+00	2.56E+00	4.47E+00	U
TM	15	510100001	4/22/2020	Zn-65	1.51E+00	2.45E+00	8.16E+00	U
TM	15	510100001	4/22/2020	Zr-95	-2.21E+00	1.79E+00	5.39E+00	U
TM	15	510959001	5/6/2020	Ac-228	1.36E+00	4.72E+00	7.33E+00	U
TM	15	510959001	5/6/2020	Ag-108m	-4.07E-01	6.91E-01	1.52E+00	U
TM	15	510959001	5/6/2020	Ag-110m	-2.06E-01	7.89E-01	2.59E+00	U
TM	15	510959001	5/6/2020	Ba-140	-6.82E-01	2.58E+00	8.19E+00	U
TM	15	510959001	5/6/2020	Be-7	4.69E-01	4.60E+00	1.49E+01	U
TM	15	510959001	5/6/2020	Bi-214	4.26E-01	2.32E+00	4.45E+00	U
TM	15	510959001	5/6/2020	Ce-141	-1.23E+00	9.91E-01	2.93E+00	U
TM	15	510959001	5/6/2020	Ce-144	2.39E+00	3.46E+00	1.10E+01	U
TM	15	510959001	5/6/2020	Co-57	-6.54E-02	4.44E-01	1.41E+00	U
TM	15	510959001	5/6/2020	Co-58	-3.76E-01	5.71E-01	1.85E+00	U
TM	15	510959001	5/6/2020	Co-60	2.94E-01	5.97E-01	2.04E+00	U
TM	15	510959001	5/6/2020	Cr-51	-2.56E+00	4.62E+00	1.51E+01	U
TM	15	510959001	5/6/2020	Cs-134	2.02E-01	6.02E-01	2.03E+00	U
TM	15	510959001	5/6/2020	Cs-137	1.24E+01	1.44E+00	1.74E+00	M
TM	15	510959001	5/6/2020	Fe-59	-1.58E+00	1.27E+00	3.76E+00	U
TM	15	510959001	5/6/2020	I-131	1.69E-01	1.84E-01	6.08E-01	U
TM	15	510959001	5/6/2020	I-131	5.34E-01	9.09E-01	2.71E+00	U
TM	15	510959001	5/6/2020	K-40	1.73E+03	8.45E+01	1.67E+01	
TM	15	510959001	5/6/2020	La-140	-4.82E-01	7.95E-01	2.54E+00	U
TM	15	510959001	5/6/2020	Mn-54	7.48E-01	5.68E-01	1.87E+00	U
TM	15	510959001	5/6/2020	Nb-95	0.00E+00	1.21E+00	1.69E+00	U
TM	15	510959001	5/6/2020	Pb-212	3.19E+00	2.33E+00	3.64E+00	U
TM	15	510959001	5/6/2020	Pb-214	-6.19E-01	1.64E+00	4.08E+00	U
TM	15	510959001	5/6/2020	Ru-103	-6.39E-01	5.84E-01	1.67E+00	U
TM	15	510959001	5/6/2020	Ru-106	-5.09E-01	4.80E+00	1.52E+01	U
TM	15	510959001	5/6/2020	Sb-124	5.10E-01	1.09E+00	3.69E+00	U
TM	15	510959001	5/6/2020	Sb-125	1.15E+00	1.61E+00	4.74E+00	U
TM	15	510959001	5/6/2020	Se-75	3.72E-01	6.86E-01	2.32E+00	U
TM	15	510959001	5/6/2020	Th-228	3.19E+00	2.33E+00	3.64E+00	U
TM	15	510959001	5/6/2020	Zn-65	-5.21E+00	2.22E+00	4.15E+00	U
TM	15	510959001	5/6/2020	Zr-95	3.95E-01	1.08E+00	3.24E+00	U
TM	15	511872001	5/20/2020	Ac-228	-5.71E+00	4.49E+00	9.30E+00	U
TM	15	511872001	5/20/2020	Ag-108m	-4.17E-01	5.49E-01	1.69E+00	U
TM	15	511872001	5/20/2020	Ag-110m	-2.93E-01	8.88E-01	2.80E+00	U
TM	15	511872001	5/20/2020	Ba-140	-1.30E-01	2.42E+00	8.00E+00	U
TM	15	511872001	5/20/2020	Be-7	7.15E-01	4.91E+00	1.64E+01	U
TM	15	511872001	5/20/2020	Bi-214	3.97E+00	3.21E+00	5.29E+00	U
TM	15	511872001	5/20/2020	Ce-141	-5.50E-01	1.09E+00	3.44E+00	U
TM	15	511872001	5/20/2020	Ce-144	-9.37E-01	4.20E+00	1.34E+01	U
TM	15	511872001	5/20/2020	Co-57	1.01E+00	6.02E-01	1.84E+00	U
TM	15	511872001	5/20/2020	Co-58	-8.37E-01	7.37E-01	1.91E+00	U
TM	15	511872001	5/20/2020	Co-60	1.26E+00	7.58E-01	2.51E+00	U
TM	15	511872001	5/20/2020	Cr-51	-9.79E+00	7.06E+00	1.72E+01	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
TM	15	511872001	5/20/2020	Cs-134	1.06E+00	7.38E-01	2.37E+00	U
TM	15	511872001	5/20/2020	Cs-137	1.02E+01	1.64E+00	1.85E+00	M
TM	15	511872001	5/20/2020	Fe-59	-3.43E-01	1.39E+00	4.66E+00	U
TM	15	511872001	5/20/2020	I-131	5.47E-02	1.80E-01	5.88E-01	U
TM	15	511872001	5/20/2020	I-131	-2.84E-01	7.53E-01	2.52E+00	U
TM	15	511872001	5/20/2020	K-40	1.61E+03	9.89E+01	1.97E+01	
TM	15	511872001	5/20/2020	La-140	-5.88E-01	7.80E-01	2.41E+00	U
TM	15	511872001	5/20/2020	Mn-54	6.30E-01	6.19E-01	2.01E+00	U
TM	15	511872001	5/20/2020	Nb-95	-2.23E-02	5.62E-01	1.81E+00	U
TM	15	511872001	5/20/2020	Pb-212	-4.78E-01	1.88E+00	4.31E+00	U
TM	15	511872001	5/20/2020	Pb-214	-3.44E+00	2.45E+00	4.74E+00	U
TM	15	511872001	5/20/2020	Ru-103	-2.78E-01	5.83E-01	1.90E+00	U
TM	15	511872001	5/20/2020	Ru-106	1.39E+01	7.26E+00	1.65E+01	U
TM	15	511872001	5/20/2020	Sb-124	-8.17E-02	1.19E+00	3.87E+00	U
TM	15	511872001	5/20/2020	Sb-125	2.09E+00	1.69E+00	5.62E+00	U
TM	15	511872001	5/20/2020	Se-75	-1.28E-01	7.61E-01	2.61E+00	U
TM	15	511872001	5/20/2020	Th-228	-4.78E-01	1.88E+00	4.31E+00	U
TM	15	511872001	5/20/2020	Zn-65	4.34E-01	1.47E+00	5.01E+00	U
TM	15	511872001	5/20/2020	Zr-95	-1.44E+00	1.15E+00	3.39E+00	U
TM	15	512892001	6/3/2020	Ac-228	-2.85E+00	4.63E+00	9.96E+00	U
TM	15	512892001	6/3/2020	Ag-108m	1.12E+00	5.76E-01	1.77E+00	U
TM	15	512892001	6/3/2020	Ag-110m	6.86E-01	1.20E+00	3.56E+00	U
TM	15	512892001	6/3/2020	Ba-140	7.61E-01	3.39E+00	1.09E+01	U
TM	15	512892001	6/3/2020	Be-7	7.86E+00	5.83E+00	1.86E+01	U
TM	15	512892001	6/3/2020	Bi-214	-2.90E+00	2.32E+00	4.53E+00	U
TM	15	512892001	6/3/2020	Ce-141	7.56E-01	9.62E-01	2.98E+00	U
TM	15	512892001	6/3/2020	Ce-144	-2.21E+00	3.69E+00	1.13E+01	U
TM	15	512892001	6/3/2020	Co-57	-4.72E-01	5.78E-01	1.42E+00	U
TM	15	512892001	6/3/2020	Co-58	-9.77E-02	7.10E-01	2.36E+00	U
TM	15	512892001	6/3/2020	Co-60	8.98E-01	7.56E-01	2.48E+00	U
TM	15	512892001	6/3/2020	Cr-51	-2.10E+00	5.09E+00	1.66E+01	U
TM	15	512892001	6/3/2020	Cs-134	-5.57E-02	7.74E-01	2.58E+00	U
TM	15	512892001	6/3/2020	Cs-137	5.06E+00	1.47E+00	2.20E+00	M
TM	15	512892001	6/3/2020	Fe-59	3.78E+00	1.90E+00	5.92E+00	U
TM	15	512892001	6/3/2020	I-131	-1.05E-01	1.55E-01	5.11E-01	U
TM	15	512892001	6/3/2020	I-131	-1.40E+00	1.46E+00	3.64E+00	U
TM	15	512892001	6/3/2020	K-40	1.58E+03	8.08E+01	1.95E+01	
TM	15	512892001	6/3/2020	La-140	-5.58E-01	1.01E+00	3.24E+00	U
TM	15	512892001	6/3/2020	Mn-54	6.00E-01	7.09E-01	2.38E+00	U
TM	15	512892001	6/3/2020	Nb-95	1.09E+00	7.49E-01	2.48E+00	U
TM	15	512892001	6/3/2020	Pb-212	1.62E+00	2.08E+00	3.89E+00	U
TM	15	512892001	6/3/2020	Pb-214	-2.16E+00	2.31E+00	4.31E+00	U
TM	15	512892001	6/3/2020	Ru-103	-2.62E-02	6.80E-01	2.18E+00	U
TM	15	512892001	6/3/2020	Ru-106	-1.80E+00	5.84E+00	1.96E+01	U
TM	15	512892001	6/3/2020	Sb-124	6.70E-01	1.33E+00	4.55E+00	U
TM	15	512892001	6/3/2020	Sb-125	3.19E+00	1.74E+00	5.39E+00	U
TM	15	512892001	6/3/2020	Se-75	8.84E-02	7.37E-01	2.47E+00	U
TM	15	512892001	6/3/2020	Th-228	1.62E+00	2.08E+00	3.89E+00	U
TM	15	512892001	6/3/2020	Zn-65	1.61E+00	1.93E+00	5.64E+00	U
TM	15	512892001	6/3/2020	Zr-95	-1.03E+00	1.22E+00	3.91E+00	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
TM	15	514054001	6/17/2020	Ac-228	-2.86E+00	4.57E+00	1.02E+01	U
TM	15	514054001	6/17/2020	Ag-108m	4.34E-02	5.41E-01	1.73E+00	U
TM	15	514054001	6/17/2020	Ag-110m	-2.06E-01	8.63E-01	2.80E+00	U
TM	15	514054001	6/17/2020	Ba-140	-9.96E-01	2.25E+00	7.48E+00	U
TM	15	514054001	6/17/2020	Be-7	3.15E+00	5.19E+00	1.66E+01	U
TM	15	514054001	6/17/2020	Bi-214	-1.28E+00	2.29E+00	4.76E+00	U
TM	15	514054001	6/17/2020	Ce-141	-1.40E+00	1.02E+00	3.22E+00	U
TM	15	514054001	6/17/2020	Ce-144	-4.30E+00	4.01E+00	1.31E+01	U
TM	15	514054001	6/17/2020	Co-57	4.10E-01	5.32E-01	1.81E+00	U
TM	15	514054001	6/17/2020	Co-58	-2.28E-02	6.15E-01	2.02E+00	U
TM	15	514054001	6/17/2020	Co-60	-6.29E-01	7.24E-01	2.29E+00	U
TM	15	514054001	6/17/2020	Cr-51	-2.52E+00	4.92E+00	1.58E+01	U
TM	15	514054001	6/17/2020	Cs-134	-3.90E-01	6.67E-01	2.13E+00	U
TM	15	514054001	6/17/2020	Cs-137	1.29E+01	1.44E+00	2.06E+00	M
TM	15	514054001	6/17/2020	Fe-59	-1.62E+00	1.49E+00	4.43E+00	U
TM	15	514054001	6/17/2020	I-131	-5.02E-01	1.01E+00	2.41E+00	U
TM	15	514054001	6/17/2020	I-131	4.81E-01	2.71E-01	7.97E-01	U
TM	15	514054001	6/17/2020	K-40	1.54E+03	7.91E+01	1.96E+01	
TM	15	514054001	6/17/2020	La-140	-6.47E-01	7.04E-01	2.14E+00	U
TM	15	514054001	6/17/2020	Mn-54	-1.83E-01	6.30E-01	2.05E+00	U
TM	15	514054001	6/17/2020	Nb-95	5.02E-02	6.41E-01	1.97E+00	U
TM	15	514054001	6/17/2020	Pb-212	1.28E+00	2.39E+00	4.48E+00	U
TM	15	514054001	6/17/2020	Pb-214	-2.26E+00	2.63E+00	4.74E+00	U
TM	15	514054001	6/17/2020	Ru-103	4.65E-01	6.14E-01	1.96E+00	U
TM	15	514054001	6/17/2020	Ru-106	4.76E-01	5.70E+00	1.92E+01	U
TM	15	514054001	6/17/2020	Sb-124	-6.90E-02	1.66E+00	3.12E+00	U
TM	15	514054001	6/17/2020	Sb-125	-1.42E+00	1.75E+00	5.37E+00	U
TM	15	514054001	6/17/2020	Se-75	1.02E+00	8.18E-01	2.65E+00	U
TM	15	514054001	6/17/2020	Th-228	1.28E+00	2.39E+00	4.48E+00	U
TM	15	514054001	6/17/2020	Zn-65	-1.00E+00	1.62E+00	5.02E+00	U
TM	15	514054001	6/17/2020	Zr-95	-1.64E-01	1.18E+00	3.40E+00	U
TM	15	515125001	7/1/2020	Ac-228	-5.52E+00	4.06E+00	9.16E+00	U
TM	15	515125001	7/1/2020	Ag-108m	2.26E-02	4.98E-01	1.66E+00	U
TM	15	515125001	7/1/2020	Ag-110m	1.06E+00	9.08E-01	3.06E+00	U
TM	15	515125001	7/1/2020	Ba-140	3.31E+00	3.03E+00	9.94E+00	U
TM	15	515125001	7/1/2020	Be-7	-4.19E+00	5.31E+00	1.69E+01	U
TM	15	515125001	7/1/2020	Bi-214	0.00E+00	2.94E+00	4.81E+00	U
TM	15	515125001	7/1/2020	Ce-141	-2.92E+00	1.66E+00	3.29E+00	U
TM	15	515125001	7/1/2020	Ce-144	-4.69E+00	4.01E+00	1.23E+01	U
TM	15	515125001	7/1/2020	Co-57	-1.31E-01	5.02E-01	1.63E+00	U
TM	15	515125001	7/1/2020	Co-58	-3.33E-02	6.61E-01	2.09E+00	U
TM	15	515125001	7/1/2020	Co-60	-6.42E-02	8.28E-01	2.69E+00	U
TM	15	515125001	7/1/2020	Cr-51	-2.22E-01	5.11E+00	1.74E+01	U
TM	15	515125001	7/1/2020	Cs-134	-7.70E-01	7.39E-01	2.18E+00	U
TM	15	515125001	7/1/2020	Cs-137	1.34E+01	1.54E+00	2.12E+00	M
TM	15	515125001	7/1/2020	Fe-59	1.32E+00	2.42E+00	5.53E+00	U
TM	15	515125001	7/1/2020	I-131	2.33E-01	2.91E-01	9.97E-01	U
TM	15	515125001	7/1/2020	I-131	-1.06E+00	9.91E-01	3.15E+00	U
TM	15	515125001	7/1/2020	K-40	1.71E+03	1.05E+02	1.84E+01	
TM	15	515125001	7/1/2020	La-140	9.85E-01	1.02E+00	3.37E+00	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
TM	15	515125001	7/1/2020	Mn-54	1.16E-01	6.27E-01	1.90E+00	U
TM	15	515125001	7/1/2020	Nb-95	8.71E-01	6.91E-01	2.20E+00	U
TM	15	515125001	7/1/2020	Pb-212	1.06E+00	2.46E+00	4.22E+00	U
TM	15	515125001	7/1/2020	Pb-214	4.39E-01	1.27E+00	4.32E+00	U
TM	15	515125001	7/1/2020	Ru-103	-4.45E-01	6.05E-01	1.92E+00	U
TM	15	515125001	7/1/2020	Ru-106	7.06E-01	5.52E+00	1.79E+01	U
TM	15	515125001	7/1/2020	Sb-124	-5.57E-01	1.20E+00	3.92E+00	U
TM	15	515125001	7/1/2020	Sb-125	6.82E-01	1.56E+00	5.24E+00	U
TM	15	515125001	7/1/2020	Se-75	2.87E-01	8.25E-01	2.58E+00	U
TM	15	515125001	7/1/2020	Th-228	1.06E+00	2.46E+00	4.22E+00	U
TM	15	515125001	7/1/2020	Zn-65	3.18E+00	1.74E+00	5.55E+00	U
TM	15	515125001	7/1/2020	Zr-95	5.29E-01	1.11E+00	3.59E+00	U
TM	15	517177001	7/29/2020	Ac-228	4.18E+00	4.44E+00	8.48E+00	U
TM	15	517177001	7/29/2020	Ag-108m	4.35E-01	5.39E-01	1.80E+00	U
TM	15	517177001	7/29/2020	Ag-110m	-2.68E-02	8.30E-01	2.80E+00	U
TM	15	517177001	7/29/2020	Ba-140	-1.00E+01	5.59E+00	9.19E+00	U
TM	15	517177001	7/29/2020	Be-7	3.38E+00	5.12E+00	1.71E+01	U
TM	15	517177001	7/29/2020	Bi-214	2.90E+00	3.08E+00	4.52E+00	U
TM	15	517177001	7/29/2020	Ce-141	-2.95E-01	1.08E+00	3.19E+00	U
TM	15	517177001	7/29/2020	Ce-144	-7.67E+00	5.90E+00	1.26E+01	U
TM	15	517177001	7/29/2020	Co-57	-2.15E-01	5.02E-01	1.62E+00	U
TM	15	517177001	7/29/2020	Co-58	-4.09E-01	6.97E-01	2.14E+00	U
TM	15	517177001	7/29/2020	Co-60	1.78E-01	7.24E-01	2.38E+00	U
TM	15	517177001	7/29/2020	Cr-51	-3.38E+00	5.30E+00	1.76E+01	U
TM	15	517177001	7/29/2020	Cs-134	8.60E-01	7.50E-01	2.40E+00	U
TM	15	517177001	7/29/2020	Cs-137	3.42E+00	1.12E+00	2.17E+00	M
TM	15	517177001	7/29/2020	Fe-59	-1.27E+00	1.58E+00	5.02E+00	U
TM	15	517177001	7/29/2020	I-131	1.59E-01	1.33E-01	4.25E-01	U
TM	15	517177001	7/29/2020	I-131	6.46E-01	9.82E-01	3.32E+00	U
TM	15	517177001	7/29/2020	K-40	1.72E+03	1.05E+02	2.04E+01	
TM	15	517177001	7/29/2020	La-140	6.47E-01	9.46E-01	2.79E+00	U
TM	15	517177001	7/29/2020	Mn-54	-3.00E-01	6.33E-01	2.11E+00	U
TM	15	517177001	7/29/2020	Nb-95	8.74E-01	6.76E-01	2.15E+00	U
TM	15	517177001	7/29/2020	Pb-212	2.54E+00	2.52E+00	4.21E+00	U
TM	15	517177001	7/29/2020	Pb-214	1.10E+00	1.33E+00	4.48E+00	U
TM	15	517177001	7/29/2020	Ru-103	-1.08E+00	6.95E-01	2.04E+00	U
TM	15	517177001	7/29/2020	Ru-106	1.28E+00	5.40E+00	1.76E+01	U
TM	15	517177001	7/29/2020	Sb-124	3.72E-01	1.31E+00	4.47E+00	U
TM	15	517177001	7/29/2020	Sb-125	-2.74E+00	1.70E+00	5.02E+00	U
TM	15	517177001	7/29/2020	Se-75	1.74E+00	8.89E-01	2.59E+00	U
TM	15	517177001	7/29/2020	Th-228	2.54E+00	2.52E+00	4.21E+00	U
TM	15	517177001	7/29/2020	Zn-65	-5.40E-01	1.68E+00	5.48E+00	U
TM	15	517177001	7/29/2020	Zr-95	2.63E-01	1.17E+00	3.76E+00	U
TM	15	518830001	8/12/2020	Ac-228	6.23E+00	5.96E+00	9.43E+00	U
TM	15	518830001	8/12/2020	Ag-108m	9.66E-01	6.94E-01	1.64E+00	U
TM	15	518830001	8/12/2020	Ag-110m	-1.50E-01	8.17E-01	2.62E+00	U
TM	15	518830001	8/12/2020	Ba-140	-3.56E+00	3.00E+00	9.09E+00	U
TM	15	518830001	8/12/2020	Be-7	-2.18E+00	4.80E+00	1.55E+01	U
TM	15	518830001	8/12/2020	Bi-214	-2.56E+00	3.35E+00	4.88E+00	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
TM	15	518830001	8/12/2020	Ce-141	2.49E+00	1.29E+00	3.66E+00	U
TM	15	518830001	8/12/2020	Ce-144	1.78E+00	4.06E+00	1.38E+01	U
TM	15	518830001	8/12/2020	Co-57	-9.92E-02	5.23E-01	1.77E+00	U
TM	15	518830001	8/12/2020	Co-58	-2.77E-02	5.88E-01	1.90E+00	U
TM	15	518830001	8/12/2020	Co-60	1.11E+00	7.68E-01	2.46E+00	U
TM	15	518830001	8/12/2020	Cr-51	1.68E+00	5.51E+00	1.84E+01	U
TM	15	518830001	8/12/2020	Cs-134	2.20E+00	1.35E+00	2.41E+00	U
TM	15	518830001	8/12/2020	Cs-137	4.80E+00	1.21E+00	1.88E+00	M
TM	15	518830001	8/12/2020	Fe-59	-6.85E-02	1.38E+00	4.41E+00	U
TM	15	518830001	8/12/2020	I-131	2.29E+00	1.15E+00	3.56E+00	U
TM	15	518830001	8/12/2020	I-131	-2.81E-01	3.17E-01	9.81E-01	U
TM	15	518830001	8/12/2020	K-40	1.44E+03	8.51E+01	2.06E+01	
TM	15	518830001	8/12/2020	La-140	-2.80E-01	9.58E-01	3.08E+00	U
TM	15	518830001	8/12/2020	Mn-54	2.25E-01	6.46E-01	1.89E+00	U
TM	15	518830001	8/12/2020	Nb-95	1.26E+00	7.11E-01	2.23E+00	U
TM	15	518830001	8/12/2020	Pb-212	-2.45E+00	1.84E+00	4.30E+00	U
TM	15	518830001	8/12/2020	Pb-214	1.05E+00	3.10E+00	4.91E+00	U
TM	15	518830001	8/12/2020	Ru-103	-4.54E-01	6.87E-01	1.95E+00	U
TM	15	518830001	8/12/2020	Ru-106	-2.78E+00	5.41E+00	1.73E+01	U
TM	15	518830001	8/12/2020	Sb-124	6.42E-01	1.38E+00	4.25E+00	U
TM	15	518830001	8/12/2020	Sb-125	-3.59E-01	1.52E+00	4.99E+00	U
TM	15	518830001	8/12/2020	Se-75	4.16E-01	8.18E-01	2.75E+00	U
TM	15	518830001	8/12/2020	Th-228	-2.45E+00	1.84E+00	4.30E+00	U
TM	15	518830001	8/12/2020	Zn-65	-6.13E-02	1.61E+00	4.57E+00	U
TM	15	518830001	8/12/2020	Zr-95	2.40E-01	1.09E+00	3.55E+00	U
TM	15	519927001	8/26/2020	Ac-228	-5.03E+00	4.04E+00	8.83E+00	U
TM	15	519927001	8/26/2020	Ag-108m	5.05E-02	5.19E-01	1.67E+00	U
TM	15	519927001	8/26/2020	Ag-110m	4.51E-01	8.50E-01	2.84E+00	U
TM	15	519927001	8/26/2020	Ba-140	-2.86E+00	3.07E+00	9.18E+00	U
TM	15	519927001	8/26/2020	Be-7	9.54E+00	9.63E+00	1.19E+01	U
TM	15	519927001	8/26/2020	Bi-214	3.66E+00	2.52E+00	5.01E+00	U
TM	15	519927001	8/26/2020	Ce-141	-4.10E-01	1.03E+00	3.46E+00	U
TM	15	519927001	8/26/2020	Ce-144	-2.16E+00	3.80E+00	1.27E+01	U
TM	15	519927001	8/26/2020	Co-57	-1.76E-02	5.31E-01	1.63E+00	U
TM	15	519927001	8/26/2020	Co-58	-3.63E-01	5.69E-01	1.83E+00	U
TM	15	519927001	8/26/2020	Co-60	8.06E-01	7.31E-01	2.39E+00	U
TM	15	519927001	8/26/2020	Cr-51	1.41E+00	5.43E+00	1.78E+01	U
TM	15	519927001	8/26/2020	Cs-134	-7.74E-01	6.97E-01	2.15E+00	U
TM	15	519927001	8/26/2020	Cs-137	2.03E+00	8.12E-01	2.41E+00	U
TM	15	519927001	8/26/2020	Fe-59	4.56E-01	1.54E+00	5.05E+00	U
TM	15	519927001	8/26/2020	I-131	1.93E-01	3.48E-01	1.02E+00	UDL
TM	15	519927001	8/26/2020	I-131	5.35E-01	1.10E+00	3.59E+00	U
TM	15	519927001	8/26/2020	K-40	1.73E+03	9.33E+01	1.64E+01	
TM	15	519927001	8/26/2020	La-140	-1.54E+00	8.73E-01	2.32E+00	U
TM	15	519927001	8/26/2020	Mn-54	-2.30E-01	5.93E-01	1.93E+00	U
TM	15	519927001	8/26/2020	Nb-95	-5.63E-01	6.31E-01	2.00E+00	U
TM	15	519927001	8/26/2020	Pb-212	3.95E+00	2.37E+00	4.16E+00	U
TM	15	519927001	8/26/2020	Pb-214	-2.42E+00	2.04E+00	4.61E+00	U
TM	15	519927001	8/26/2020	Ru-103	5.97E-01	6.62E-01	2.12E+00	U
TM	15	519927001	8/26/2020	Ru-106	6.50E+00	5.44E+00	1.83E+01	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
TM	15	519927001	8/26/2020	Sb-124	-3.08E-01	1.38E+00	3.90E+00	U
TM	15	519927001	8/26/2020	Sb-125	-7.11E-01	1.65E+00	5.22E+00	U
TM	15	519927001	8/26/2020	Se-75	-1.09E-02	7.88E-01	2.60E+00	U
TM	15	519927001	8/26/2020	Th-228	3.95E+00	2.37E+00	4.16E+00	U
TM	15	519927001	8/26/2020	Zn-65	-1.32E+00	1.51E+00	4.63E+00	U
TM	15	519927001	8/26/2020	Zr-95	-1.21E+00	1.09E+00	3.39E+00	U
TM	15	521477001	9/9/2020	Ac-228	-9.24E-01	2.90E+00	6.09E+00	U
TM	15	521477001	9/9/2020	Ag-108m	1.35E-02	3.15E-01	1.06E+00	U
TM	15	521477001	9/9/2020	Ag-110m	-7.48E-02	5.46E-01	1.75E+00	U
TM	15	521477001	9/9/2020	Ba-140	9.41E-01	1.90E+00	6.39E+00	U
TM	15	521477001	9/9/2020	Be-7	-5.63E-01	3.01E+00	1.01E+01	U
TM	15	521477001	9/9/2020	Bi-214	4.59E-01	2.30E+00	2.81E+00	U
TM	15	521477001	9/9/2020	Ce-141	-1.65E-01	7.10E-01	2.11E+00	U
TM	15	521477001	9/9/2020	Ce-144	-2.14E+00	2.56E+00	8.02E+00	U
TM	15	521477001	9/9/2020	Co-57	8.34E-01	3.69E-01	1.06E+00	U
TM	15	521477001	9/9/2020	Co-58	3.93E-01	4.03E-01	1.32E+00	U
TM	15	521477001	9/9/2020	Co-60	-2.83E-01	4.53E-01	1.47E+00	U
TM	15	521477001	9/9/2020	Cr-51	1.13E-01	3.43E+00	1.18E+01	U
TM	15	521477001	9/9/2020	Cs-134	5.26E-01	4.67E-01	1.51E+00	U
TM	15	521477001	9/9/2020	Cs-137	3.86E+00	9.82E-01	1.30E+00	M
TM	15	521477001	9/9/2020	Fe-59	-1.17E+00	1.08E+00	3.18E+00	U
TM	15	521477001	9/9/2020	I-131	-3.19E-01	6.96E-01	2.34E+00	U
TM	15	521477001	9/9/2020	I-131	-3.36E-01	2.85E-01	5.87E-01	U
TM	15	521477001	9/9/2020	K-40	1.62E+03	7.86E+01	1.13E+01	
TM	15	521477001	9/9/2020	La-140	-8.03E-02	5.43E-01	1.79E+00	U
TM	15	521477001	9/9/2020	Mn-54	-4.64E-01	4.21E-01	1.27E+00	U
TM	15	521477001	9/9/2020	Nb-95	-7.69E-01	5.80E-01	1.30E+00	U
TM	15	521477001	9/9/2020	Pb-212	-1.27E+00	1.19E+00	2.58E+00	U
TM	15	521477001	9/9/2020	Pb-214	1.15E+00	1.76E+00	2.88E+00	U
TM	15	521477001	9/9/2020	Ru-103	-3.75E-01	4.53E-01	1.30E+00	U
TM	15	521477001	9/9/2020	Ru-106	-9.30E-01	3.27E+00	1.07E+01	U
TM	15	521477001	9/9/2020	Sb-124	-4.12E-01	9.19E-01	2.71E+00	U
TM	15	521477001	9/9/2020	Sb-125	-1.03E+00	9.77E-01	3.13E+00	U
TM	15	521477001	9/9/2020	Se-75	9.85E-01	5.66E-01	1.68E+00	U
TM	15	521477001	9/9/2020	Th-228	-1.27E+00	1.19E+00	2.58E+00	U
TM	15	521477001	9/9/2020	Zn-65	-5.71E-01	9.97E-01	3.07E+00	U
TM	15	521477001	9/9/2020	Zr-95	4.32E-01	7.20E-01	2.37E+00	U
TM	15	522474001	9/23/2020	Ac-228	-7.24E+00	4.02E+00	8.85E+00	U
TM	15	522474001	9/23/2020	Ag-108m	-3.26E-01	5.06E-01	1.64E+00	U
TM	15	522474001	9/23/2020	Ag-110m	-1.67E+00	9.15E-01	2.40E+00	U
TM	15	522474001	9/23/2020	Ba-140	2.32E+00	2.58E+00	8.56E+00	U
TM	15	522474001	9/23/2020	Be-7	-2.26E+00	4.55E+00	1.47E+01	U
TM	15	522474001	9/23/2020	Bi-214	-2.74E+00	2.03E+00	4.22E+00	U
TM	15	522474001	9/23/2020	Ce-141	-7.75E-01	9.89E-01	3.02E+00	U
TM	15	522474001	9/23/2020	Ce-144	1.23E+00	3.84E+00	1.22E+01	U
TM	15	522474001	9/23/2020	Co-57	-9.99E-02	5.02E-01	1.59E+00	U
TM	15	522474001	9/23/2020	Co-58	5.17E-01	5.90E-01	1.93E+00	U
TM	15	522474001	9/23/2020	Co-60	1.33E-01	6.70E-01	2.25E+00	U
TM	15	522474001	9/23/2020	Cr-51	1.08E+01	5.52E+00	1.74E+01	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
TM	15	522474001	9/23/2020	Cs-134	1.12E+00	7.00E-01	2.23E+00	U
TM	15	522474001	9/23/2020	Cs-137	0.00E+00	1.02E+00	1.88E+00	U
TM	15	522474001	9/23/2020	Fe-59	1.06E-02	1.34E+00	4.54E+00	U
TM	15	522474001	9/23/2020	I-131	3.07E-02	1.27E-01	4.14E-01	U
TM	15	522474001	9/23/2020	I-131	1.07E+00	8.84E-01	2.94E+00	U
TM	15	522474001	9/23/2020	K-40	1.71E+03	9.03E+01	1.73E+01	
TM	15	522474001	9/23/2020	La-140	-8.43E-01	8.22E-01	2.44E+00	U
TM	15	522474001	9/23/2020	Mn-54	-6.83E-01	6.12E-01	1.80E+00	U
TM	15	522474001	9/23/2020	Nb-95	-2.19E-03	5.85E-01	1.89E+00	U
TM	15	522474001	9/23/2020	Pb-212	2.84E-01	2.11E+00	3.97E+00	U
TM	15	522474001	9/23/2020	Pb-214	-1.11E+00	1.99E+00	4.25E+00	U
TM	15	522474001	9/23/2020	Ru-103	6.95E-01	6.04E-01	1.81E+00	U
TM	15	522474001	9/23/2020	Ru-106	-8.26E+00	5.42E+00	1.55E+01	U
TM	15	522474001	9/23/2020	Sb-124	-6.62E-02	1.20E+00	3.91E+00	U
TM	15	522474001	9/23/2020	Sb-125	-1.02E+00	1.49E+00	4.79E+00	U
TM	15	522474001	9/23/2020	Se-75	-3.81E-01	7.10E-01	2.38E+00	U
TM	15	522474001	9/23/2020	Th-228	2.84E-01	2.11E+00	3.97E+00	U
TM	15	522474001	9/23/2020	Zn-65	1.27E+00	1.42E+00	4.86E+00	U
TM	15	522474001	9/23/2020	Zr-95	-8.79E-01	1.01E+00	3.08E+00	U
TM	15	523902001	10/7/2020	Ac-228	9.27E+00	7.45E+00	1.52E+01	U
TM	15	523902001	10/7/2020	Ag-108m	2.12E+00	8.92E-01	2.75E+00	U
TM	15	523902001	10/7/2020	Ag-110m	-2.17E+00	1.33E+00	3.52E+00	U
TM	15	523902001	10/7/2020	Ba-140	1.29E+01	5.52E+00	1.38E+01	U
TM	15	523902001	10/7/2020	Be-7	4.98E+00	7.20E+00	2.46E+01	U
TM	15	523902001	10/7/2020	Bi-214	-6.76E-02	3.27E+00	8.29E+00	U
TM	15	523902001	10/7/2020	Ce-141	-2.88E+00	1.86E+00	4.59E+00	U
TM	15	523902001	10/7/2020	Ce-144	1.02E+00	5.39E+00	1.79E+01	U
TM	15	523902001	10/7/2020	Co-57	-1.09E+00	9.23E-01	2.29E+00	U
TM	15	523902001	10/7/2020	Co-58	-3.43E-01	1.08E+00	3.28E+00	U
TM	15	523902001	10/7/2020	Co-60	-6.26E-01	1.00E+00	3.17E+00	U
TM	15	523902001	10/7/2020	Cr-51	-1.04E+01	9.12E+00	2.41E+01	U
TM	15	523902001	10/7/2020	Cs-134	1.10E+00	1.09E+00	3.61E+00	U
TM	15	523902001	10/7/2020	Cs-137	3.43E-01	9.03E-01	3.02E+00	U
TM	15	523902001	10/7/2020	Fe-59	1.29E-01	2.27E+00	7.73E+00	U
TM	15	523902001	10/7/2020	I-131	-1.79E+00	1.86E+00	5.41E+00	U
TM	15	523902001	10/7/2020	I-131	-2.31E-01	3.67E-01	1.16E+00	UDL
TM	15	523902001	10/7/2020	K-40	1.68E+03	9.66E+01	3.14E+01	
TM	15	523902001	10/7/2020	La-140	4.79E-01	1.47E+00	4.96E+00	U
TM	15	523902001	10/7/2020	Mn-54	4.05E-01	9.58E-01	3.15E+00	U
TM	15	523902001	10/7/2020	Nb-95	-6.68E-01	1.24E+00	3.12E+00	U
TM	15	523902001	10/7/2020	Pb-212	5.61E+00	3.81E+00	6.21E+00	U
TM	15	523902001	10/7/2020	Pb-214	5.29E+00	4.40E+00	7.32E+00	U
TM	15	523902001	10/7/2020	Ru-103	-9.30E-01	9.09E-01	2.86E+00	U
TM	15	523902001	10/7/2020	Ru-106	-3.36E-02	7.50E+00	2.49E+01	U
TM	15	523902001	10/7/2020	Sb-124	-2.01E+00	2.18E+00	6.35E+00	U
TM	15	523902001	10/7/2020	Sb-125	-1.85E+00	2.15E+00	6.95E+00	U
TM	15	523902001	10/7/2020	Se-75	2.52E-01	1.17E+00	3.76E+00	U
TM	15	523902001	10/7/2020	Th-228	5.61E+00	3.81E+00	6.21E+00	U
TM	15	523902001	10/7/2020	Zn-65	-4.62E+00	2.52E+00	7.02E+00	U
TM	15	523902001	10/7/2020	Zr-95	-2.60E-01	1.60E+00	5.16E+00	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
TM	15	527400001	11/4/2020	Ac-228	1.14E+00	5.70E+00	1.09E+01	U
TM	15	527400001	11/4/2020	Ag-108m	3.72E-01	5.93E-01	1.98E+00	U
TM	15	527400001	11/4/2020	Ag-110m	-2.11E-01	9.43E-01	3.01E+00	U
TM	15	527400001	11/4/2020	Ba-140	-3.34E+00	4.66E+00	1.47E+01	U
TM	15	527400001	11/4/2020	Be-7	-2.94E-01	5.71E+00	1.88E+01	U
TM	15	527400001	11/4/2020	Bi-214	3.23E+00	2.60E+00	3.70E+00	U
TM	15	527400001	11/4/2020	Ce-141	8.04E-01	2.21E+00	4.91E+00	U
TM	15	527400001	11/4/2020	Ce-144	-5.23E+00	4.81E+00	1.55E+01	U
TM	15	527400001	11/4/2020	Co-57	5.37E-01	6.28E-01	2.12E+00	U
TM	15	527400001	11/4/2020	Co-58	-7.65E-01	8.87E-01	2.38E+00	U
TM	15	527400001	11/4/2020	Co-60	1.27E+00	8.48E-01	2.75E+00	U
TM	15	527400001	11/4/2020	Cr-51	7.50E+00	7.56E+00	2.51E+01	U
TM	15	527400001	11/4/2020	Cs-134	-1.81E+00	8.75E-01	2.21E+00	U
TM	15	527400001	11/4/2020	Cs-137	2.23E+00	9.91E-01	2.21E+00	M
TM	15	527400001	11/4/2020	Fe-59	-3.90E-01	1.83E+00	5.78E+00	U
TM	15	527400001	11/4/2020	I-131	-1.94E-02	3.85E-01	1.25E+00	UDL
TM	15	527400001	11/4/2020	I-131	4.95E-01	2.14E+00	7.14E+00	U
TM	15	527400001	11/4/2020	K-40	1.62E+03	9.67E+01	1.87E+01	
TM	15	527400001	11/4/2020	La-140	1.13E+00	1.35E+00	4.75E+00	U
TM	15	527400001	11/4/2020	Mn-54	-1.75E-02	6.91E-01	1.99E+00	U
TM	15	527400001	11/4/2020	Nb-95	-1.11E-01	7.39E-01	2.38E+00	U
TM	15	527400001	11/4/2020	Pb-212	-2.24E+00	2.29E+00	5.09E+00	U
TM	15	527400001	11/4/2020	Pb-214	3.46E+00	2.69E+00	5.47E+00	U
TM	15	527400001	11/4/2020	Ru-103	-1.46E+00	8.27E-01	2.31E+00	U
TM	15	527400001	11/4/2020	Ru-106	-8.88E-01	5.64E+00	1.83E+01	U
TM	15	527400001	11/4/2020	Sb-124	-7.51E-01	1.43E+00	4.59E+00	U
TM	15	527400001	11/4/2020	Sb-125	4.85E-02	1.67E+00	5.53E+00	U
TM	15	527400001	11/4/2020	Se-75	-1.88E-01	9.31E-01	3.10E+00	U
TM	15	527400001	11/4/2020	Th-228	-2.24E+00	2.29E+00	5.09E+00	U
TM	15	527400001	11/4/2020	Zn-65	2.68E+00	1.95E+00	5.74E+00	U
TM	15	527400001	11/4/2020	Zr-95	-9.54E-01	1.38E+00	4.28E+00	U
TM	15	529194001	12/2/2020	Ac-228	-1.28E+00	3.39E+00	8.65E+00	U
TM	15	529194001	12/2/2020	Ag-108m	-1.37E-03	4.23E-01	1.45E+00	U
TM	15	529194001	12/2/2020	Ag-110m	3.66E-01	7.77E-01	2.58E+00	U
TM	15	529194001	12/2/2020	Ba-140	0.00E+00	7.00E+00	9.49E+00	U
TM	15	529194001	12/2/2020	Be-7	-2.27E+00	4.20E+00	1.39E+01	U
TM	15	529194001	12/2/2020	Bi-214	0.00E+00	2.80E+00	3.42E+00	U
TM	15	529194001	12/2/2020	Ce-141	-1.78E+00	1.07E+00	2.84E+00	U
TM	15	529194001	12/2/2020	Ce-144	1.62E+00	3.44E+00	1.13E+01	U
TM	15	529194001	12/2/2020	Co-57	-4.61E-01	4.56E-01	1.42E+00	U
TM	15	529194001	12/2/2020	Co-58	-3.38E-01	5.69E-01	1.81E+00	U
TM	15	529194001	12/2/2020	Co-60	3.17E-01	6.81E-01	2.20E+00	U
TM	15	529194001	12/2/2020	Cr-51	8.49E+00	5.50E+00	1.58E+01	U
TM	15	529194001	12/2/2020	Cs-134	1.27E-01	5.92E-01	1.97E+00	U
TM	15	529194001	12/2/2020	Cs-137	8.59E-01	8.93E-01	1.81E+00	U
TM	15	529194001	12/2/2020	Fe-59	1.40E+00	1.36E+00	4.46E+00	U
TM	15	529194001	12/2/2020	I-131	7.89E-03	1.82E-01	6.01E-01	U
TM	15	529194001	12/2/2020	I-131	6.85E-01	1.04E+00	3.28E+00	U
TM	15	529194001	12/2/2020	K-40	1.57E+03	7.88E+01	1.65E+01	
TM	15	529194001	12/2/2020	La-140	2.91E-01	6.41E-01	2.23E+00	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
TM	15	529194001	12/2/2020	Mn-54	1.87E-01	5.80E-01	1.93E+00	U
TM	15	529194001	12/2/2020	Nb-95	-5.30E-01	7.35E-01	1.88E+00	U
TM	15	529194001	12/2/2020	Pb-212	0.00E+00	2.40E+00	3.19E+00	U
TM	15	529194001	12/2/2020	Pb-214	5.42E-02	1.61E+00	4.16E+00	U
TM	15	529194001	12/2/2020	Ru-103	-9.55E-04	5.55E-01	1.70E+00	U
TM	15	529194001	12/2/2020	Ru-106	-2.99E+00	4.60E+00	1.48E+01	U
TM	15	529194001	12/2/2020	Sb-124	1.97E+00	1.10E+00	3.85E+00	U
TM	15	529194001	12/2/2020	Sb-125	1.62E+00	1.36E+00	4.64E+00	U
TM	15	529194001	12/2/2020	Se-75	8.41E-01	7.24E-01	2.29E+00	U
TM	15	529194001	12/2/2020	Th-228	0.00E+00	2.40E+00	3.19E+00	U
TM	15	529194001	12/2/2020	Zn-65	3.05E-01	1.34E+00	4.36E+00	U
TM	15	529194001	12/2/2020	Zr-95	5.97E-01	9.88E-01	3.32E+00	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
WG	01	506970001	3/11/2020	Ac-228	5.55E+00	4.92E+00	8.71E+00	U
WG	01	506970001	3/11/2020	Ag-108m	3.96E-01	5.25E-01	1.79E+00	U
WG	01	506970001	3/11/2020	Ag-110m	-1.08E+00	8.52E-01	2.44E+00	U
WG	01	506970001	3/11/2020	Ba-140	2.17E+00	2.77E+00	9.39E+00	U
WG	01	506970001	3/11/2020	Be-7	-6.20E+00	5.15E+00	1.58E+01	U
WG	01	506970001	3/11/2020	BETA	7.51E+00	1.37E+00	2.36E+00	
WG	01	506970001	3/11/2020	Bi-214	1.48E+01	3.23E+00	3.40E+00	X(1)
WG	01	506970001	3/11/2020	Ce-141	4.20E-01	1.20E+00	3.57E+00	U
WG	01	506970001	3/11/2020	Ce-144	-4.70E+00	4.52E+00	1.37E+01	U
WG	01	506970001	3/11/2020	Co-57	3.76E-01	5.71E-01	1.85E+00	U
WG	01	506970001	3/11/2020	Co-58	-6.57E-01	5.96E-01	1.76E+00	U
WG	01	506970001	3/11/2020	Co-60	-6.00E-01	5.66E-01	1.72E+00	U
WG	01	506970001	3/11/2020	Cr-51	3.98E-01	5.46E+00	1.88E+01	U
WG	01	506970001	3/11/2020	Cs-134	-8.35E-01	6.91E-01	1.74E+00	U
WG	01	506970001	3/11/2020	Cs-137	1.64E-01	5.76E-01	1.93E+00	U
WG	01	506970001	3/11/2020	Fe-59	3.64E+00	1.40E+00	4.10E+00	U
WG	01	506970001	3/11/2020	H-3	-6.43E+01	1.68E+02	5.65E+02	U
WG	01	506970001	3/11/2020	I-131	-1.03E-01	9.19E-01	3.12E+00	U
WG	01	506970001	3/11/2020	K-40	-1.28E+01	1.03E+01	2.96E+01	U
WG	01	506970001	3/11/2020	La-140	-1.54E+00	1.15E+00	2.77E+00	U
WG	01	506970001	3/11/2020	Mn-54	-5.42E-01	5.42E-01	1.61E+00	U
WG	01	506970001	3/11/2020	Nb-95	9.03E-01	5.90E-01	1.96E+00	U
WG	01	506970001	3/11/2020	Pb-212	1.51E+00	2.20E+00	3.82E+00	U
WG	01	506970001	3/11/2020	Pb-214	1.45E+01	2.96E+00	4.34E+00	
WG	01	506970001	3/11/2020	Ru-103	3.63E-01	6.19E-01	2.10E+00	U
WG	01	506970001	3/11/2020	Ru-106	3.75E-02	4.96E+00	1.65E+01	U
WG	01	506970001	3/11/2020	Sb-124	6.19E-01	1.29E+00	4.44E+00	U
WG	01	506970001	3/11/2020	Sb-125	-2.20E-01	1.63E+00	5.47E+00	U
WG	01	506970001	3/11/2020	Se-75	-5.59E-01	9.25E-01	2.80E+00	U
WG	01	506970001	3/11/2020	Th-228	1.51E+00	2.20E+00	3.82E+00	U
WG	01	506970001	3/11/2020	Zn-65	2.48E+00	1.47E+00	4.44E+00	U
WG	01	506970001	3/11/2020	Zr-95	-2.18E+00	1.13E+00	2.89E+00	U
WG	01	512891001	6/3/2020	Ac-228	-1.00E+01	4.82E+00	7.69E+00	U
WG	01	512891001	6/3/2020	Ag-108m	-6.58E-01	8.28E-01	1.63E+00	U
WG	01	512891001	6/3/2020	Ag-110m	-9.34E-01	7.82E-01	1.94E+00	U
WG	01	512891001	6/3/2020	Ba-140	2.16E+00	2.74E+00	9.18E+00	U
WG	01	512891001	6/3/2020	Be-7	-4.01E+00	4.53E+00	1.43E+01	U
WG	01	512891001	6/3/2020	BETA	1.29E-02	1.11E+00	3.64E+00	U
WG	01	512891001	6/3/2020	Bi-214	9.21E+00	2.60E+00	3.33E+00	X(1)
WG	01	512891001	6/3/2020	Ce-141	2.64E+00	1.47E+00	3.40E+00	U
WG	01	512891001	6/3/2020	Ce-144	1.14E+00	3.81E+00	1.23E+01	U
WG	01	512891001	6/3/2020	Co-57	6.11E-01	5.45E-01	1.73E+00	U
WG	01	512891001	6/3/2020	Co-58	1.68E-01	5.08E-01	1.66E+00	U
WG	01	512891001	6/3/2020	Co-60	-5.46E-01	5.63E-01	1.72E+00	U
WG	01	512891001	6/3/2020	Cr-51	6.36E+00	5.16E+00	1.73E+01	U
WG	01	512891001	6/3/2020	Cs-134	-2.69E-02	5.84E-01	1.88E+00	U
WG	01	512891001	6/3/2020	Cs-137	1.14E+00	5.92E-01	1.87E+00	U
WG	01	512891001	6/3/2020	Fe-59	-3.03E+00	1.31E+00	3.22E+00	U
WG	01	512891001	6/3/2020	H-3	2.05E+02	1.74E+02	5.38E+02	U
WG	01	512891001	6/3/2020	I-131	-7.62E-01	9.88E-01	3.22E+00	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
WG	01	512891001	6/3/2020	K-40	-1.27E+01	1.13E+01	2.73E+01	U
WG	01	512891001	6/3/2020	La-140	3.97E-01	8.37E-01	2.83E+00	U
WG	01	512891001	6/3/2020	Mn-54	-2.04E-01	4.99E-01	1.56E+00	U
WG	01	512891001	6/3/2020	Nb-95	-7.94E-01	6.15E-01	1.79E+00	U
WG	01	512891001	6/3/2020	Pb-212	1.98E+00	2.30E+00	4.27E+00	U
WG	01	512891001	6/3/2020	Pb-214	9.96E+00	2.87E+00	3.90E+00	X(1)
WG	01	512891001	6/3/2020	Ru-103	-1.19E-01	5.90E-01	1.74E+00	U
WG	01	512891001	6/3/2020	Ru-106	-3.55E+00	4.78E+00	1.50E+01	U
WG	01	512891001	6/3/2020	Sb-124	2.07E+00	1.05E+00	3.45E+00	U
WG	01	512891001	6/3/2020	Sb-125	3.58E+00	3.32E+00	5.10E+00	U
WG	01	512891001	6/3/2020	Se-75	3.34E-02	7.06E-01	2.43E+00	U
WG	01	512891001	6/3/2020	Th-228	1.98E+00	2.30E+00	4.27E+00	U
WG	01	512891001	6/3/2020	Zn-65	3.58E+00	1.86E+00	3.61E+00	U
WG	01	512891001	6/3/2020	Zr-95	-1.83E-01	8.98E-01	2.87E+00	U
WG	01	521449001	9/9/2020	Ac-228	-4.88E+00	3.26E+00	7.39E+00	U
WG	01	521449001	9/9/2020	Ag-108m	-6.58E-01	4.82E-01	1.46E+00	U
WG	01	521449001	9/9/2020	Ag-110m	-3.64E-01	6.79E-01	2.09E+00	U
WG	01	521449001	9/9/2020	Ba-140	2.72E+00	3.58E+00	1.20E+01	U
WG	01	521449001	9/9/2020	Be-7	9.46E-02	4.87E+00	1.62E+01	U
WG	01	521449001	9/9/2020	BETA	4.66E+00	1.34E+00	3.36E+00	
WG	01	521449001	9/9/2020	Bi-214	0.00E+00	2.84E+00	3.49E+00	U
WG	01	521449001	9/9/2020	Ce-141	-4.66E-01	1.27E+00	3.69E+00	U
WG	01	521449001	9/9/2020	Ce-144	-3.06E+00	4.04E+00	1.26E+01	U
WG	01	521449001	9/9/2020	Co-57	-1.52E-01	5.30E-01	1.70E+00	U
WG	01	521449001	9/9/2020	Co-58	5.39E-02	5.46E-01	1.77E+00	U
WG	01	521449001	9/9/2020	Co-60	1.26E+00	9.41E-01	2.09E+00	U
WG	01	521449001	9/9/2020	Cr-51	-2.93E+00	1.94E+01	2.01E+01	U
WG	01	521449001	9/9/2020	Cs-134	-3.12E-01	5.55E-01	1.72E+00	U
WG	01	521449001	9/9/2020	Cs-137	5.30E-01	5.47E-01	1.81E+00	U
WG	01	521449001	9/9/2020	Fe-59	-1.08E+00	1.15E+00	3.62E+00	U
WG	01	521449001	9/9/2020	H-3	2.44E+02	1.48E+02	4.54E+02	U
WG	01	521449001	9/9/2020	I-131	-2.65E+00	1.60E+00	4.75E+00	U
WG	01	521449001	9/9/2020	K-40	1.84E+01	1.63E+01	2.01E+01	U
WG	01	521449001	9/9/2020	La-140	6.73E-02	1.23E+00	3.56E+00	U
WG	01	521449001	9/9/2020	Mn-54	9.41E-01	5.97E-01	1.91E+00	U
WG	01	521449001	9/9/2020	Nb-95	-8.49E-02	5.45E-01	1.75E+00	U
WG	01	521449001	9/9/2020	Pb-212	-6.44E-01	1.81E+00	4.09E+00	U
WG	01	521449001	9/9/2020	Pb-214	3.19E+00	3.07E+00	4.94E+00	U
WG	01	521449001	9/9/2020	Ru-103	-9.88E-01	6.61E-01	1.96E+00	U
WG	01	521449001	9/9/2020	Ru-106	2.38E-01	4.70E+00	1.54E+01	U
WG	01	521449001	9/9/2020	Sb-124	1.02E+00	1.31E+00	4.47E+00	U
WG	01	521449001	9/9/2020	Sb-125	-2.64E-01	1.48E+00	4.92E+00	U
WG	01	521449001	9/9/2020	Se-75	-4.04E-01	7.27E-01	2.45E+00	U
WG	01	521449001	9/9/2020	Th-228	-6.44E-01	1.81E+00	4.09E+00	U
WG	01	521449001	9/9/2020	Zn-65	-1.01E+00	1.15E+00	3.64E+00	U
WG	01	521449001	9/9/2020	Zr-95	1.15E+00	1.01E+00	3.31E+00	U
WG	01	529195001	12/2/2020	Ac-228	-1.31E+00	4.02E+00	8.76E+00	U
WG	01	529195001	12/2/2020	Ag-108m	-7.69E-01	5.45E-01	1.64E+00	U
WG	01	529195001	12/2/2020	Ag-110m	-2.33E+00	8.80E-01	1.94E+00	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
WG	01	529195001	12/2/2020	Ba-140	-4.27E+00	3.06E+00	8.97E+00	U
WG	01	529195001	12/2/2020	Be-7	-2.18E+00	4.44E+00	1.43E+01	U
WG	01	529195001	12/2/2020	BETA	5.91E+00	1.48E+00	3.57E+00	
WG	01	529195001	12/2/2020	Bi-214	1.78E+01	2.21E+00	3.56E+00	X(1)
WG	01	529195001	12/2/2020	Ce-141	1.15E+00	9.84E-01	3.14E+00	U
WG	01	529195001	12/2/2020	Ce-144	3.62E+00	3.80E+00	1.23E+01	U
WG	01	529195001	12/2/2020	Co-57	-2.65E-01	4.84E-01	1.55E+00	U
WG	01	529195001	12/2/2020	Co-58	7.52E-01	6.05E-01	1.95E+00	U
WG	01	529195001	12/2/2020	Co-60	1.05E+00	7.14E-01	2.36E+00	U
WG	01	529195001	12/2/2020	Cr-51	-6.55E+00	5.22E+00	1.64E+01	U
WG	01	529195001	12/2/2020	Cs-134	9.96E-01	6.52E-01	2.08E+00	U
WG	01	529195001	12/2/2020	Cs-137	9.13E-01	6.64E-01	2.14E+00	U
WG	01	529195001	12/2/2020	Fe-59	2.62E+00	1.38E+00	4.47E+00	U
WG	01	529195001	12/2/2020	H-3	-1.27E+01	1.46E+02	4.83E+02	U
WG	01	529195001	12/2/2020	I-131	1.88E+00	2.51E+00	3.39E+00	U
WG	01	529195001	12/2/2020	K-40	-6.30E+00	1.29E+01	2.78E+01	U
WG	01	529195001	12/2/2020	La-140	1.07E+00	1.06E+00	3.52E+00	U
WG	01	529195001	12/2/2020	Mn-54	-1.69E-01	5.46E-01	1.83E+00	U
WG	01	529195001	12/2/2020	Nb-95	2.74E-01	6.48E-01	2.09E+00	U
WG	01	529195001	12/2/2020	Pb-212	2.66E-01	1.90E+00	3.86E+00	U
WG	01	529195001	12/2/2020	Pb-214	0.00E+00	3.28E+00	6.93E+00	U
WG	01	529195001	12/2/2020	Ru-103	1.69E+00	1.10E+00	1.86E+00	U
WG	01	529195001	12/2/2020	Ru-106	-4.61E-01	4.94E+00	1.59E+01	U
WG	01	529195001	12/2/2020	Sb-124	-1.10E+00	1.78E+00	4.92E+00	U
WG	01	529195001	12/2/2020	Sb-125	-1.79E+00	1.56E+00	4.84E+00	U
WG	01	529195001	12/2/2020	Se-75	-1.39E+00	8.11E-01	2.17E+00	U
WG	01	529195001	12/2/2020	Th-228	2.66E-01	1.90E+00	3.86E+00	U
WG	01	529195001	12/2/2020	Zn-65	1.16E+00	1.23E+00	4.14E+00	U
WG	01	529195001	12/2/2020	Zr-95	8.69E-01	1.06E+00	3.43E+00	U
WG	13	506970002	3/11/2020	Ac-228	-5.48E+00	3.80E+00	9.87E+00	U
WG	13	506970002	3/11/2020	Ag-108m	4.75E-01	5.12E-01	1.60E+00	U
WG	13	506970002	3/11/2020	Ag-110m	4.63E-01	8.03E-01	2.66E+00	U
WG	13	506970002	3/11/2020	Ba-140	-1.73E+00	4.46E+00	9.87E+00	U
WG	13	506970002	3/11/2020	Be-7	0.00E+00	1.46E+01	1.58E+01	U
WG	13	506970002	3/11/2020	BETA	1.24E+00	9.92E-01	2.96E+00	U
WG	13	506970002	3/11/2020	Bi-214	8.24E+01	5.66E+00	3.96E+00	X(1)
WG	13	506970002	3/11/2020	Ce-141	1.24E+00	1.84E+00	3.52E+00	U
WG	13	506970002	3/11/2020	Ce-144	-2.36E+00	4.55E+00	1.45E+01	U
WG	13	506970002	3/11/2020	Co-57	8.27E-01	6.09E-01	1.94E+00	U
WG	13	506970002	3/11/2020	Co-58	9.18E-02	6.22E-01	2.03E+00	U
WG	13	506970002	3/11/2020	Co-60	5.37E-01	7.00E-01	2.18E+00	U
WG	13	506970002	3/11/2020	Cr-51	4.94E+00	5.37E+00	1.85E+01	U
WG	13	506970002	3/11/2020	Cs-134	-2.02E-01	6.51E-01	2.07E+00	U
WG	13	506970002	3/11/2020	Cs-137	5.38E-01	7.24E-01	2.20E+00	U
WG	13	506970002	3/11/2020	Fe-59	-1.69E+00	1.39E+00	3.87E+00	U
WG	13	506970002	3/11/2020	H-3	-1.31E+02	1.57E+02	5.41E+02	U
WG	13	506970002	3/11/2020	I-131	5.01E-01	1.01E+00	3.46E+00	U
WG	13	506970002	3/11/2020	K-40	2.57E+01	1.27E+01	1.74E+01	M
WG	13	506970002	3/11/2020	La-140	5.91E-01	9.79E-01	3.35E+00	U
WG	13	506970002	3/11/2020	Mn-54	-8.74E-01	6.87E-01	1.97E+00	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
WG	13	506970002	3/11/2020	Nb-95	5.34E-01	8.37E-01	2.26E+00	U
WG	13	506970002	3/11/2020	Pb-212	5.98E+00	1.75E+00	3.78E+00	X(1)
WG	13	506970002	3/11/2020	Pb-214	9.05E+01	5.91E+00	4.25E+00	X(1)
WG	13	506970002	3/11/2020	Ru-103	-2.99E-01	6.41E-01	2.10E+00	U
WG	13	506970002	3/11/2020	Ru-106	-4.05E+00	5.08E+00	1.58E+01	U
WG	13	506970002	3/11/2020	Sb-124	9.59E-01	1.29E+00	4.48E+00	U
WG	13	506970002	3/11/2020	Sb-125	-9.22E-01	1.69E+00	5.55E+00	U
WG	13	506970002	3/11/2020	Se-75	-3.06E-02	9.30E-01	2.91E+00	U
WG	13	506970002	3/11/2020	Th-228	5.98E+00	1.75E+00	3.78E+00	X(1)
WG	13	506970002	3/11/2020	Zn-65	-2.67E-01	1.39E+00	3.82E+00	U
WG	13	506970002	3/11/2020	Zr-95	-5.52E-01	1.12E+00	3.51E+00	U
WG	13	512891002	6/3/2020	Ac-228	-2.18E+00	3.60E+00	9.09E+00	U
WG	13	512891002	6/3/2020	Ag-108m	1.20E+00	6.89E-01	1.59E+00	U
WG	13	512891002	6/3/2020	Ag-110m	8.44E-01	7.94E-01	2.62E+00	U
WG	13	512891002	6/3/2020	Ba-140	2.18E+00	2.96E+00	1.01E+01	U
WG	13	512891002	6/3/2020	Be-7	-1.97E+00	5.07E+00	1.58E+01	U
WG	13	512891002	6/3/2020	BETA	2.18E+00	1.13E+00	3.23E+00	U
WG	13	512891002	6/3/2020	Bi-214	4.85E+01	4.03E+00	3.53E+00	X(1)
WG	13	512891002	6/3/2020	Ce-141	5.11E-01	1.15E+00	3.55E+00	U
WG	13	512891002	6/3/2020	Ce-144	1.81E+00	3.98E+00	1.36E+01	U
WG	13	512891002	6/3/2020	Co-57	-3.24E-01	5.18E-01	1.74E+00	U
WG	13	512891002	6/3/2020	Co-58	-8.94E-01	6.16E-01	1.80E+00	U
WG	13	512891002	6/3/2020	Co-60	-1.95E-01	6.31E-01	1.79E+00	U
WG	13	512891002	6/3/2020	Cr-51	-1.07E+01	6.05E+00	1.71E+01	U
WG	13	512891002	6/3/2020	Cs-134	-1.46E-01	6.05E-01	1.97E+00	U
WG	13	512891002	6/3/2020	Cs-137	-9.61E-02	5.63E-01	1.87E+00	U
WG	13	512891002	6/3/2020	Fe-59	-1.14E-01	1.11E+00	3.55E+00	U
WG	13	512891002	6/3/2020	H-3	-1.67E+01	1.63E+02	5.39E+02	U
WG	13	512891002	6/3/2020	I-131	-4.18E-01	1.11E+00	3.54E+00	U
WG	13	512891002	6/3/2020	K-40	-2.09E+01	1.25E+01	2.67E+01	U
WG	13	512891002	6/3/2020	La-140	-8.54E-01	1.03E+00	3.18E+00	U
WG	13	512891002	6/3/2020	Mn-54	-3.34E-01	5.97E-01	1.91E+00	U
WG	13	512891002	6/3/2020	Nb-95	1.58E+00	7.48E-01	2.10E+00	U
WG	13	512891002	6/3/2020	Pb-212	0.00E+00	2.40E+00	3.50E+00	U
WG	13	512891002	6/3/2020	Pb-214	5.26E+01	4.33E+00	4.03E+00	X(1)
WG	13	512891002	6/3/2020	Ru-103	6.63E-02	6.33E-01	2.01E+00	U
WG	13	512891002	6/3/2020	Ru-106	2.51E+00	4.94E+00	1.67E+01	U
WG	13	512891002	6/3/2020	Sb-124	-4.63E-01	1.40E+00	4.49E+00	U
WG	13	512891002	6/3/2020	Sb-125	5.96E-01	1.86E+00	5.34E+00	U
WG	13	512891002	6/3/2020	Se-75	1.30E+00	8.64E-01	2.75E+00	U
WG	13	512891002	6/3/2020	Th-228	0.00E+00	2.40E+00	3.50E+00	U
WG	13	512891002	6/3/2020	Zn-65	8.27E-01	1.42E+00	4.08E+00	U
WG	13	512891002	6/3/2020	Zr-95	7.23E-01	1.08E+00	3.61E+00	U
WG	13	521449002	9/9/2020	Ac-228	7.29E+00	4.21E+00	7.33E+00	U
WG	13	521449002	9/9/2020	Ag-108m	-3.31E-01	3.83E-01	1.22E+00	U
WG	13	521449002	9/9/2020	Ag-110m	-1.30E-01	7.38E-01	2.07E+00	U
WG	13	521449002	9/9/2020	Ba-140	0.00E+00	5.90E+00	1.07E+01	U
WG	13	521449002	9/9/2020	Be-7	-3.33E+00	3.98E+00	1.26E+01	U
WG	13	521449002	9/9/2020	BETA	4.99E+00	1.39E+00	3.43E+00	

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
WG	13	521449002	9/9/2020	Bi-214	-9.01E-01	1.67E+00	3.52E+00	U
WG	13	521449002	9/9/2020	Ce-141	-8.54E-01	9.01E-01	2.76E+00	U
WG	13	521449002	9/9/2020	Ce-144	3.15E+00	2.90E+00	9.26E+00	U
WG	13	521449002	9/9/2020	Co-57	1.38E-01	4.04E-01	1.21E+00	U
WG	13	521449002	9/9/2020	Co-58	-2.09E+00	9.63E-01	1.23E+00	U
WG	13	521449002	9/9/2020	Co-60	6.32E-02	4.44E-01	1.49E+00	U
WG	13	521449002	9/9/2020	Cr-51	-2.03E+00	4.40E+00	1.47E+01	U
WG	13	521449002	9/9/2020	Cs-134	4.42E-02	4.73E-01	1.53E+00	U
WG	13	521449002	9/9/2020	Cs-137	-3.67E-01	4.51E-01	1.39E+00	U
WG	13	521449002	9/9/2020	Fe-59	4.92E-01	9.47E-01	3.25E+00	U
WG	13	521449002	9/9/2020	H-3	3.24E+01	1.36E+02	4.42E+02	U
WG	13	521449002	9/9/2020	I-131	2.94E+00	2.03E+00	3.94E+00	U
WG	13	521449002	9/9/2020	K-40	0.00E+00	1.26E+01	1.35E+01	U
WG	13	521449002	9/9/2020	La-140	-1.14E+00	1.06E+00	3.12E+00	U
WG	13	521449002	9/9/2020	Mn-54	2.60E-01	4.60E-01	1.50E+00	U
WG	13	521449002	9/9/2020	Nb-95	2.68E-02	4.93E-01	1.59E+00	U
WG	13	521449002	9/9/2020	Pb-212	-9.55E-01	2.05E+00	4.92E+00	U
WG	13	521449002	9/9/2020	Pb-214	2.56E-01	2.01E+00	3.62E+00	U
WG	13	521449002	9/9/2020	Ru-103	-6.66E-01	5.19E-01	1.57E+00	U
WG	13	521449002	9/9/2020	Ru-106	4.41E+00	3.99E+00	1.32E+01	U
WG	13	521449002	9/9/2020	Sb-124	-4.36E-01	1.20E+00	3.82E+00	U
WG	13	521449002	9/9/2020	Sb-125	1.48E+00	1.27E+00	4.22E+00	U
WG	13	521449002	9/9/2020	Se-75	2.93E-02	5.63E-01	1.94E+00	U
WG	13	521449002	9/9/2020	Th-228	-9.55E-01	2.05E+00	4.92E+00	U
WG	13	521449002	9/9/2020	Zn-65	-1.26E+00	9.25E-01	2.74E+00	U
WG	13	521449002	9/9/2020	Zr-95	1.23E+00	8.77E-01	2.85E+00	U
WG	13	529195002	12/2/2020	Ac-228	-3.80E+00	4.47E+00	9.98E+00	U
WG	13	529195002	12/2/2020	Ag-108m	3.06E-01	5.86E-01	1.89E+00	U
WG	13	529195002	12/2/2020	Ag-110m	4.71E-01	9.38E-01	3.08E+00	U
WG	13	529195002	12/2/2020	Ba-140	-2.49E+00	3.43E+00	1.06E+01	U
WG	13	529195002	12/2/2020	Be-7	-9.03E-01	5.07E+00	1.71E+01	U
WG	13	529195002	12/2/2020	BETA	3.46E+00	1.25E+00	3.38E+00	M
WG	13	529195002	12/2/2020	Bi-214	6.80E-02	2.69E+00	5.65E+00	U
WG	13	529195002	12/2/2020	Ce-141	-6.67E-01	1.05E+00	3.52E+00	U
WG	13	529195002	12/2/2020	Ce-144	3.01E+00	4.29E+00	1.34E+01	U
WG	13	529195002	12/2/2020	Co-57	9.46E-02	5.60E-01	1.76E+00	U
WG	13	529195002	12/2/2020	Co-58	8.91E-01	6.50E-01	2.15E+00	U
WG	13	529195002	12/2/2020	Co-60	1.70E-03	8.24E-01	2.70E+00	U
WG	13	529195002	12/2/2020	Cr-51	7.32E-01	6.08E+00	1.99E+01	U
WG	13	529195002	12/2/2020	Cs-134	2.99E-01	6.81E-01	2.25E+00	U
WG	13	529195002	12/2/2020	Cs-137	-3.31E-01	7.48E-01	2.41E+00	U
WG	13	529195002	12/2/2020	Fe-59	-1.21E+00	1.34E+00	4.15E+00	U
WG	13	529195002	12/2/2020	H-3	5.47E+01	1.50E+02	4.87E+02	U
WG	13	529195002	12/2/2020	I-131	-1.22E-01	1.20E+00	3.86E+00	U
WG	13	529195002	12/2/2020	K-40	0.00E+00	9.02E+00	1.87E+01	U
WG	13	529195002	12/2/2020	La-140	3.00E-01	1.21E+00	3.45E+00	U
WG	13	529195002	12/2/2020	Mn-54	-2.07E-01	6.49E-01	2.06E+00	U
WG	13	529195002	12/2/2020	Nb-95	3.52E-02	6.72E-01	2.19E+00	U
WG	13	529195002	12/2/2020	Pb-212	3.92E+00	2.47E+00	4.77E+00	U
WG	13	529195002	12/2/2020	Pb-214	-2.44E+00	2.35E+00	5.53E+00	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
WG	13	529195002	12/2/2020	Ru-103	7.99E-02	7.08E-01	2.12E+00	U
WG	13	529195002	12/2/2020	Ru-106	6.77E+00	6.31E+00	2.11E+01	U
WG	13	529195002	12/2/2020	Sb-124	-1.14E+00	1.76E+00	4.65E+00	U
WG	13	529195002	12/2/2020	Sb-125	1.31E+00	1.74E+00	5.61E+00	U
WG	13	529195002	12/2/2020	Se-75	7.46E-02	8.26E-01	2.73E+00	U
WG	13	529195002	12/2/2020	Th-228	3.92E+00	2.47E+00	4.77E+00	U
WG	13	529195002	12/2/2020	Zn-65	6.49E-01	1.40E+00	4.76E+00	U
WG	13	529195002	12/2/2020	Zr-95	-1.51E-01	1.14E+00	3.69E+00	U
WG	14	506970003	3/11/2020	Ac-228	-1.01E+00	4.70E+00	1.44E+01	U
WG	14	506970003	3/11/2020	Ag-108m	-6.37E-01	8.21E-01	2.63E+00	U
WG	14	506970003	3/11/2020	Ag-110m	2.00E-01	1.28E+00	4.37E+00	U
WG	14	506970003	3/11/2020	Ba-140	-1.05E+00	4.70E+00	1.53E+01	U DL
WG	14	506970003	3/11/2020	Be-7	-3.39E-01	8.04E+00	2.66E+01	U
WG	14	506970003	3/11/2020	BETA	6.05E+00	1.39E+00	3.31E+00	
WG	14	506970003	3/11/2020	Bi-214	2.58E+02	1.32E+01	6.52E+00	X(1)
WG	14	506970003	3/11/2020	Ce-141	-1.52E+00	1.86E+00	5.86E+00	U
WG	14	506970003	3/11/2020	Ce-144	5.62E+00	6.91E+00	2.25E+01	U
WG	14	506970003	3/11/2020	Co-57	8.75E-01	8.88E-01	2.90E+00	U
WG	14	506970003	3/11/2020	Co-58	8.07E-01	1.09E+00	3.18E+00	U
WG	14	506970003	3/11/2020	Co-60	-1.54E-01	1.03E+00	3.33E+00	U
WG	14	506970003	3/11/2020	Cr-51	-9.54E+00	1.03E+01	2.94E+01	U
WG	14	506970003	3/11/2020	Cs-134	-6.25E-02	1.05E+00	3.33E+00	U
WG	14	506970003	3/11/2020	Cs-137	1.75E+00	1.09E+00	3.21E+00	U
WG	14	506970003	3/11/2020	Fe-59	1.33E+00	1.78E+00	6.06E+00	U
WG	14	506970003	3/11/2020	H-3	1.11E+02	1.65E+02	5.21E+02	U
WG	14	506970003	3/11/2020	I-131	-7.06E-01	1.45E+00	4.79E+00	U
WG	14	506970003	3/11/2020	K-40	0.00E+00	2.19E+01	2.99E+01	U
WG	14	506970003	3/11/2020	La-140	-9.91E-01	1.71E+00	5.22E+00	U
WG	14	506970003	3/11/2020	Mn-54	-2.25E-01	9.14E-01	3.07E+00	U
WG	14	506970003	3/11/2020	Nb-95	1.29E+00	1.20E+00	3.49E+00	U
WG	14	506970003	3/11/2020	Pb-212	3.33E+00	2.56E+00	6.75E+00	U
WG	14	506970003	3/11/2020	Pb-214	2.74E+02	1.46E+01	6.81E+00	X(1)
WG	14	506970003	3/11/2020	Ru-103	2.50E-01	9.73E-01	2.91E+00	U
WG	14	506970003	3/11/2020	Ru-106	9.74E+00	8.29E+00	2.72E+01	U
WG	14	506970003	3/11/2020	Sb-124	2.69E+00	2.19E+00	7.02E+00	U
WG	14	506970003	3/11/2020	Sb-125	-1.49E+00	2.56E+00	8.32E+00	U
WG	14	506970003	3/11/2020	Se-75	-1.17E+00	1.47E+00	4.39E+00	U
WG	14	506970003	3/11/2020	Th-228	3.33E+00	2.56E+00	6.75E+00	U
WG	14	506970003	3/11/2020	Zn-65	1.80E+00	2.05E+00	6.26E+00	U
WG	14	506970003	3/11/2020	Zr-95	2.36E+00	1.76E+00	5.71E+00	U
WG	14	512891003	6/3/2020	Ac-228	-2.65E+00	3.38E+00	8.08E+00	U
WG	14	512891003	6/3/2020	Ag-108m	-3.14E-02	4.65E-01	1.55E+00	U
WG	14	512891003	6/3/2020	Ag-110m	1.35E+00	8.04E-01	2.64E+00	U
WG	14	512891003	6/3/2020	Ba-140	-2.25E+00	2.67E+00	8.40E+00	U
WG	14	512891003	6/3/2020	Be-7	-9.46E+00	5.12E+00	1.46E+01	U
WG	14	512891003	6/3/2020	BETA	3.24E+00	1.11E+00	3.06E+00	M
WG	14	512891003	6/3/2020	Bi-214	1.69E+02	8.32E+00	3.55E+00	X(1)
WG	14	512891003	6/3/2020	Ce-141	-4.45E+00	1.84E+00	3.53E+00	U
WG	14	512891003	6/3/2020	Ce-144	-2.81E+00	4.04E+00	1.29E+01	U
WG	14	512891003	6/3/2020	Co-57	-3.92E-01	5.25E-01	1.68E+00	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
WG	14	512891003	6/3/2020	Co-58	1.81E+00	7.23E-01	1.90E+00	U
WG	14	512891003	6/3/2020	Co-60	-4.33E-01	5.63E-01	1.75E+00	U
WG	14	512891003	6/3/2020	Cr-51	6.04E+00	5.62E+00	1.89E+01	U
WG	14	512891003	6/3/2020	Cs-134	2.45E-01	6.20E-01	1.80E+00	U
WG	14	512891003	6/3/2020	Cs-137	-7.29E-01	9.07E-01	2.06E+00	U
WG	14	512891003	6/3/2020	Fe-59	-1.55E-01	1.23E+00	3.59E+00	U
WG	14	512891003	6/3/2020	H-3	2.46E+02	1.83E+02	5.61E+02	U
WG	14	512891003	6/3/2020	I-131	-2.98E-01	1.01E+00	3.40E+00	U
WG	14	512891003	6/3/2020	K-40	1.37E+00	1.04E+01	2.47E+01	U
WG	14	512891003	6/3/2020	La-140	-2.71E-01	1.03E+00	3.29E+00	U
WG	14	512891003	6/3/2020	Mn-54	-6.02E-02	5.37E-01	1.70E+00	U
WG	14	512891003	6/3/2020	Nb-95	4.72E-01	6.70E-01	1.94E+00	U
WG	14	512891003	6/3/2020	Pb-212	3.09E-01	1.90E+00	3.40E+00	U
WG	14	512891003	6/3/2020	Pb-214	1.91E+02	9.42E+00	3.98E+00	X(1)
WG	14	512891003	6/3/2020	Ru-103	-1.53E+00	6.77E-01	1.78E+00	U
WG	14	512891003	6/3/2020	Ru-106	-6.65E+00	4.78E+00	1.40E+01	U
WG	14	512891003	6/3/2020	Sb-124	-6.48E-01	1.34E+00	4.17E+00	U
WG	14	512891003	6/3/2020	Sb-125	-1.53E+00	1.58E+00	5.05E+00	U
WG	14	512891003	6/3/2020	Se-75	-4.34E-01	8.24E-01	2.52E+00	U
WG	14	512891003	6/3/2020	Th-228	3.09E-01	1.90E+00	3.40E+00	U
WG	14	512891003	6/3/2020	Zn-65	-7.53E-01	1.21E+00	3.40E+00	U
WG	14	512891003	6/3/2020	Zr-95	-1.63E+00	1.05E+00	2.94E+00	U
WG	14	521449003	9/9/2020	Ac-228	8.20E-01	2.91E+00	6.36E+00	U
WG	14	521449003	9/9/2020	Ag-108m	-8.36E-02	3.90E-01	1.30E+00	U
WG	14	521449003	9/9/2020	Ag-110m	5.34E-01	6.35E-01	2.05E+00	U
WG	14	521449003	9/9/2020	Ba-140	-8.21E-01	4.02E+00	9.45E+00	U
WG	14	521449003	9/9/2020	Be-7	-3.67E+00	4.35E+00	1.23E+01	U
WG	14	521449003	9/9/2020	BETA	1.53E+00	8.21E-01	2.24E+00	U
WG	14	521449003	9/9/2020	Bi-214	6.59E+01	4.00E+00	2.81E+00	X(1)
WG	14	521449003	9/9/2020	Ce-141	-3.12E+00	1.25E+00	3.10E+00	U
WG	14	521449003	9/9/2020	Ce-144	0.00E+00	4.61E+00	1.04E+01	U
WG	14	521449003	9/9/2020	Co-57	-4.74E-01	4.43E-01	1.37E+00	U
WG	14	521449003	9/9/2020	Co-58	4.63E-01	4.83E-01	1.42E+00	U
WG	14	521449003	9/9/2020	Co-60	-1.96E-01	4.47E-01	1.44E+00	U
WG	14	521449003	9/9/2020	Cr-51	1.48E+00	4.63E+00	1.59E+01	U
WG	14	521449003	9/9/2020	Cs-134	7.44E-01	7.42E-01	1.59E+00	U
WG	14	521449003	9/9/2020	Cs-137	-6.30E-01	5.42E-01	1.44E+00	U
WG	14	521449003	9/9/2020	Fe-59	-7.50E-02	1.01E+00	3.41E+00	U
WG	14	521449003	9/9/2020	H-3	1.22E+02	1.43E+02	4.55E+02	U
WG	14	521449003	9/9/2020	I-131	7.95E-01	1.18E+00	4.04E+00	U
WG	14	521449003	9/9/2020	K-40	-7.71E+00	1.02E+01	2.42E+01	U
WG	14	521449003	9/9/2020	La-140	-1.29E+00	1.07E+00	3.14E+00	U
WG	14	521449003	9/9/2020	Mn-54	-1.92E-01	4.81E-01	1.34E+00	U
WG	14	521449003	9/9/2020	Nb-95	7.13E-01	1.19E+00	1.47E+00	U
WG	14	521449003	9/9/2020	Pb-212	-1.80E+00	1.33E+00	3.22E+00	U
WG	14	521449003	9/9/2020	Pb-214	7.30E+01	4.42E+00	3.03E+00	X(1)
WG	14	521449003	9/9/2020	Ru-103	-6.47E-02	5.55E-01	1.65E+00	U
WG	14	521449003	9/9/2020	Ru-106	-1.00E+00	4.01E+00	1.30E+01	U
WG	14	521449003	9/9/2020	Sb-124	-1.67E-01	1.05E+00	3.37E+00	U
WG	14	521449003	9/9/2020	Sb-125	-8.41E-02	1.24E+00	4.18E+00	U

Seabrook REMP Summary of 2020 Data

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
WG	14	521449003	9/9/2020	Se-75	5.54E-01	7.02E-01	2.20E+00	U
WG	14	521449003	9/9/2020	Th-228	-1.80E+00	1.33E+00	3.22E+00	U
WG	14	521449003	9/9/2020	Zn-65	8.11E-02	1.05E+00	3.12E+00	U
WG	14	521449003	9/9/2020	Zr-95	3.57E-01	8.43E-01	2.76E+00	U
WG	14	529195003	12/2/2020	Ac-228	5.75E+00	3.15E+00	9.99E+00	U
WG	14	529195003	12/2/2020	Ag-108m	0.00E+00	0.00E+00	1.91E+00	U
WG	14	529195003	12/2/2020	Ag-110m	-3.43E-01	9.53E-01	3.13E+00	U
WG	14	529195003	12/2/2020	Ba-140	7.34E+00	4.12E+00	1.15E+01	U
WG	14	529195003	12/2/2020	Be-7	1.77E+00	6.52E+00	1.89E+01	U
WG	14	529195003	12/2/2020	BETA	3.11E+00	1.24E+00	3.42E+00	U
WG	14	529195003	12/2/2020	Bi-214	2.53E+02	1.24E+01	4.59E+00	X(1)
WG	14	529195003	12/2/2020	Ce-141	2.33E-01	1.36E+00	3.91E+00	U
WG	14	529195003	12/2/2020	Ce-144	-8.76E-01	4.55E+00	1.42E+01	U
WG	14	529195003	12/2/2020	Co-57	6.64E-02	5.63E-01	1.78E+00	U
WG	14	529195003	12/2/2020	Co-58	2.91E-01	7.72E-01	2.31E+00	U
WG	14	529195003	12/2/2020	Co-60	-2.56E-01	7.56E-01	2.40E+00	U
WG	14	529195003	12/2/2020	Cr-51	-7.78E+00	6.38E+00	1.99E+01	U
WG	14	529195003	12/2/2020	Cs-134	1.51E+00	8.47E-01	2.72E+00	U
WG	14	529195003	12/2/2020	Cs-137	9.73E-01	8.04E-01	2.42E+00	U
WG	14	529195003	12/2/2020	Fe-59	-3.08E+00	1.65E+00	4.47E+00	U
WG	14	529195003	12/2/2020	H-3	-2.52E+01	1.45E+02	4.80E+02	U
WG	14	529195003	12/2/2020	I-131	-9.53E-01	1.24E+00	3.96E+00	U
WG	14	529195003	12/2/2020	K-40	-9.78E+00	1.33E+01	2.84E+01	U
WG	14	529195003	12/2/2020	La-140	1.13E+00	1.31E+00	4.45E+00	U
WG	14	529195003	12/2/2020	Mn-54	-5.53E-01	7.87E-01	2.22E+00	U
WG	14	529195003	12/2/2020	Nb-95	1.45E+00	1.28E+00	2.65E+00	U
WG	14	529195003	12/2/2020	Pb-212	0.00E+00	2.66E+00	3.78E+00	U
WG	14	529195003	12/2/2020	Pb-214	2.70E+02	1.29E+01	5.00E+00	X(1)
WG	14	529195003	12/2/2020	Ru-103	-1.26E+00	8.93E-01	2.31E+00	U
WG	14	529195003	12/2/2020	Ru-106	-4.20E+00	6.25E+00	1.92E+01	U
WG	14	529195003	12/2/2020	Sb-124	-1.73E+00	1.66E+00	5.12E+00	U
WG	14	529195003	12/2/2020	Sb-125	-2.79E+00	2.00E+00	5.98E+00	U
WG	14	529195003	12/2/2020	Se-75	4.06E-01	8.69E-01	2.92E+00	U
WG	14	529195003	12/2/2020	Th-228	0.00E+00	2.66E+00	3.78E+00	U
WG	14	529195003	12/2/2020	Zn-65	-2.46E+00	1.93E+00	4.94E+00	U
WG	14	529195003	12/2/2020	Zr-95	9.76E-01	1.21E+00	4.11E+00	U

Seabrook REMP Summary of 2020 Data

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
WS	01	501556001	1/13/2020	Ac-228	-1.05E+01	3.96E+00	6.57E+00	U
WS	01	501556001	1/13/2020	Ag-108m	3.61E-01	3.99E-01	1.34E+00	U
WS	01	501556001	1/13/2020	Ag-110m	-8.44E-02	6.57E-01	2.09E+00	U
WS	01	501556001	1/13/2020	Ba-140	-2.54E+00	2.99E+00	7.44E+00	U
WS	01	501556001	1/13/2020	Be-7	-5.68E+00	4.22E+00	1.27E+01	U
WS	01	501556001	1/13/2020	Bi-214	9.41E-01	2.16E+00	3.83E+00	U
WS	01	501556001	1/13/2020	Ce-141	-3.46E+00	1.42E+00	2.62E+00	U
WS	01	501556001	1/13/2020	Ce-144	5.30E+00	3.33E+00	1.02E+01	U
WS	01	501556001	1/13/2020	Co-57	-6.54E-02	4.00E-01	1.28E+00	U
WS	01	501556001	1/13/2020	Co-58	1.13E+00	5.74E-01	1.78E+00	U
WS	01	501556001	1/13/2020	Co-60	2.39E-01	4.76E-01	1.62E+00	U
WS	01	501556001	1/13/2020	Cr-51	-3.32E+00	4.16E+00	1.36E+01	U
WS	01	501556001	1/13/2020	Cs-134	-2.69E-01	5.26E-01	1.64E+00	U
WS	01	501556001	1/13/2020	Cs-137	-2.41E-01	4.77E-01	1.51E+00	U
WS	01	501556001	1/13/2020	Fe-59	2.32E+00	2.48E+00	3.14E+00	U
WS	01	501556001	1/13/2020	I-131	1.47E-01	8.11E-01	2.75E+00	U
WS	01	501556001	1/13/2020	K-40	3.23E+02	2.43E+01	1.56E+01	
WS	01	501556001	1/13/2020	La-140	-1.59E-02	8.15E-01	2.68E+00	U
WS	01	501556001	1/13/2020	Mn-54	-8.38E-02	4.73E-01	1.50E+00	U
WS	01	501556001	1/13/2020	Nb-95	-5.40E-01	6.06E-01	1.62E+00	U
WS	01	501556001	1/13/2020	Pb-212	8.89E-01	1.89E+00	5.50E+00	U
WS	01	501556001	1/13/2020	Pb-214	-2.20E+00	1.85E+00	3.74E+00	U
WS	01	501556001	1/13/2020	Ru-103	-8.57E-01	5.53E-01	1.62E+00	U
WS	01	501556001	1/13/2020	Ru-106	6.02E+00	4.39E+00	1.43E+01	U
WS	01	501556001	1/13/2020	Sb-124	-1.31E+00	1.09E+00	3.10E+00	U
WS	01	501556001	1/13/2020	Sb-125	1.64E+00	1.29E+00	4.28E+00	U
WS	01	501556001	1/13/2020	Se-75	-1.03E+00	6.52E-01	2.00E+00	U
WS	01	501556001	1/13/2020	Th-228	8.89E-01	1.89E+00	5.50E+00	U
WS	01	501556001	1/13/2020	Zn-65	9.84E-01	1.10E+00	3.76E+00	U
WS	01	501556001	1/13/2020	Zr-95	-2.12E+00	9.63E-01	2.34E+00	U
WS	01	504485001	2/12/2020	Ac-228	3.54E+00	3.34E+00	5.99E+00	U
WS	01	504485001	2/12/2020	Ag-108m	1.94E-01	3.58E-01	1.22E+00	U
WS	01	504485001	2/12/2020	Ag-110m	4.89E-01	5.36E-01	1.76E+00	U
WS	01	504485001	2/12/2020	Ba-140	-2.76E-01	2.15E+00	7.15E+00	U
WS	01	504485001	2/12/2020	Be-7	-6.52E-01	3.20E+00	1.07E+01	U
WS	01	504485001	2/12/2020	Bi-214	-1.51E+00	1.75E+00	3.18E+00	U
WS	01	504485001	2/12/2020	Ce-141	-2.01E+00	8.78E-01	2.27E+00	U
WS	01	504485001	2/12/2020	Ce-144	-2.81E+00	2.70E+00	8.31E+00	U
WS	01	504485001	2/12/2020	Co-57	7.25E-01	3.77E-01	1.14E+00	U
WS	01	504485001	2/12/2020	Co-58	-3.54E-01	4.15E-01	1.27E+00	U
WS	01	504485001	2/12/2020	Co-60	1.16E+00	4.96E-01	1.57E+00	U
WS	01	504485001	2/12/2020	Cr-51	8.70E+00	6.48E+00	1.28E+01	U
WS	01	504485001	2/12/2020	Cs-134	7.24E-01	4.45E-01	1.44E+00	U
WS	01	504485001	2/12/2020	Cs-137	1.95E-03	4.54E-01	1.34E+00	U
WS	01	504485001	2/12/2020	Fe-59	4.44E-01	9.16E-01	2.95E+00	U
WS	01	504485001	2/12/2020	I-131	-1.03E-01	6.97E-01	2.37E+00	U
WS	01	504485001	2/12/2020	K-40	3.20E+02	2.24E+01	1.31E+01	
WS	01	504485001	2/12/2020	La-140	4.49E-01	6.71E-01	2.05E+00	U
WS	01	504485001	2/12/2020	Mn-54	6.98E-01	4.34E-01	1.39E+00	U
WS	01	504485001	2/12/2020	Nb-95	7.25E-01	6.98E-01	1.32E+00	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
WS	01	504485001	2/12/2020	Pb-212	1.07E+00	1.53E+00	2.92E+00	U
WS	01	504485001	2/12/2020	Pb-214	-4.54E-01	1.43E+00	3.11E+00	U
WS	01	504485001	2/12/2020	Ru-103	1.04E-01	4.46E-01	1.35E+00	U
WS	01	504485001	2/12/2020	Ru-106	1.37E+00	3.45E+00	1.15E+01	U
WS	01	504485001	2/12/2020	Sb-124	-8.95E-02	9.17E-01	3.01E+00	U
WS	01	504485001	2/12/2020	Sb-125	-9.16E-01	1.08E+00	3.09E+00	U
WS	01	504485001	2/12/2020	Se-75	-5.56E-01	5.95E-01	1.78E+00	U
WS	01	504485001	2/12/2020	Th-228	1.07E+00	1.53E+00	2.92E+00	U
WS	01	504485001	2/12/2020	Zn-65	-1.00E+00	1.02E+00	3.01E+00	U
WS	01	504485001	2/12/2020	Zr-95	-7.86E-01	7.61E-01	2.30E+00	U
WS	01	507593001	3/18/2020	Ac-228	3.99E+00	5.34E+00	8.32E+00	U
WS	01	507593001	3/18/2020	Ag-108m	6.23E-01	4.48E-01	1.49E+00	U
WS	01	507593001	3/18/2020	Ag-110m	-1.54E-01	6.51E-01	2.05E+00	U
WS	01	507593001	3/18/2020	Ba-140	-2.36E+00	2.54E+00	7.87E+00	U
WS	01	507593001	3/18/2020	Be-7	4.19E+00	4.43E+00	1.48E+01	U
WS	01	507593001	3/18/2020	Bi-214	3.50E+00	1.93E+00	4.26E+00	U
WS	01	507593001	3/18/2020	Ce-141	9.53E-01	9.00E-01	2.85E+00	U
WS	01	507593001	3/18/2020	Ce-144	-2.44E-01	3.41E+00	1.09E+01	U
WS	01	507593001	3/18/2020	Co-57	7.77E-01	4.75E-01	1.47E+00	U
WS	01	507593001	3/18/2020	Co-58	7.79E-01	6.29E-01	1.61E+00	U
WS	01	507593001	3/18/2020	Co-60	8.37E-01	6.79E-01	2.30E+00	U
WS	01	507593001	3/18/2020	Cr-51	7.47E+00	4.92E+00	1.63E+01	U
WS	01	507593001	3/18/2020	Cs-134	1.15E+00	6.43E-01	1.87E+00	U
WS	01	507593001	3/18/2020	Cs-137	-2.66E-01	5.25E-01	1.66E+00	U
WS	01	507593001	3/18/2020	Fe-59	3.14E-02	1.10E+00	3.74E+00	U
WS	01	507593001	3/18/2020	I-131	1.74E+00	1.01E+00	3.28E+00	U
WS	01	507593001	3/18/2020	K-40	3.40E+02	2.80E+01	1.60E+01	
WS	01	507593001	3/18/2020	La-140	2.61E+00	1.77E+00	2.79E+00	U
WS	01	507593001	3/18/2020	Mn-54	1.05E+00	5.68E-01	1.80E+00	U
WS	01	507593001	3/18/2020	Nb-95	4.02E-01	4.87E-01	1.61E+00	U
WS	01	507593001	3/18/2020	Pb-212	-4.04E+00	2.10E+00	5.77E+00	U
WS	01	507593001	3/18/2020	Pb-214	4.00E+00	2.78E+00	4.42E+00	U
WS	01	507593001	3/18/2020	Ru-103	-1.01E+00	6.07E-01	1.74E+00	U
WS	01	507593001	3/18/2020	Ru-106	-3.90E+00	4.77E+00	1.48E+01	U
WS	01	507593001	3/18/2020	Sb-124	7.50E-01	1.23E+00	4.15E+00	U
WS	01	507593001	3/18/2020	Sb-125	3.79E+00	1.59E+00	4.82E+00	U
WS	01	507593001	3/18/2020	Se-75	-3.00E-01	6.24E-01	2.10E+00	U
WS	01	507593001	3/18/2020	Th-228	-4.04E+00	2.10E+00	5.77E+00	U
WS	01	507593001	3/18/2020	Zn-65	2.95E+00	1.31E+00	4.19E+00	U
WS	01	507593001	3/18/2020	Zr-95	7.83E-01	9.46E-01	3.12E+00	U
WS	01	510624001	3/18/2020	H-3	2.45E+02	1.23E+02	3.67E+02	U
WS	01	509885001	4/15/2020	Ac-228	7.19E+00	3.44E+00	8.25E+00	U
WS	01	509885001	4/15/2020	Ag-108m	-3.41E-01	4.72E-01	1.53E+00	U
WS	01	509885001	4/15/2020	Ag-110m	-2.59E-01	7.39E-01	2.32E+00	U
WS	01	509885001	4/15/2020	Ba-140	9.46E-01	2.71E+00	9.06E+00	U
WS	01	509885001	4/15/2020	Be-7	7.14E+00	4.79E+00	1.57E+01	U
WS	01	509885001	4/15/2020	Bi-214	2.55E+00	2.98E+00	3.41E+00	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
WS	01	509885001	4/15/2020	Ce-141	4.16E-01	1.93E+00	3.46E+00	U
WS	01	509885001	4/15/2020	Ce-144	1.99E+00	3.96E+00	1.28E+01	U
WS	01	509885001	4/15/2020	Co-57	9.67E-01	5.82E-01	1.79E+00	U
WS	01	509885001	4/15/2020	Co-58	-1.98E-02	5.46E-01	1.75E+00	U
WS	01	509885001	4/15/2020	Co-60	4.07E-01	5.69E-01	1.95E+00	U
WS	01	509885001	4/15/2020	Cr-51	-1.53E+01	8.59E+00	1.79E+01	U
WS	01	509885001	4/15/2020	Cs-134	-1.75E+00	1.08E+00	1.89E+00	U
WS	01	509885001	4/15/2020	Cs-137	1.48E+00	1.02E+00	1.84E+00	U
WS	01	509885001	4/15/2020	Fe-59	7.16E-01	1.10E+00	3.79E+00	U
WS	01	509885001	4/15/2020	I-131	-5.48E-02	9.49E-01	3.21E+00	U
WS	01	509885001	4/15/2020	K-40	3.39E+02	2.87E+01	1.62E+01	
WS	01	509885001	4/15/2020	La-140	-1.65E+00	9.96E-01	2.66E+00	U
WS	01	509885001	4/15/2020	Mn-54	-5.80E-01	5.77E-01	1.72E+00	U
WS	01	509885001	4/15/2020	Nb-95	2.62E-01	5.39E-01	1.77E+00	U
WS	01	509885001	4/15/2020	Pb-212	3.66E+00	2.93E+00	4.24E+00	U
WS	01	509885001	4/15/2020	Pb-214	0.00E+00	3.51E+00	4.70E+00	U
WS	01	509885001	4/15/2020	Ru-103	8.78E-02	5.61E-01	1.87E+00	U
WS	01	509885001	4/15/2020	Ru-106	-6.66E-01	4.81E+00	1.57E+01	U
WS	01	509885001	4/15/2020	Sb-124	3.82E+00	1.69E+00	5.07E+00	U
WS	01	509885001	4/15/2020	Sb-125	-9.51E-01	1.39E+00	4.50E+00	U
WS	01	509885001	4/15/2020	Se-75	3.55E-01	7.43E-01	2.56E+00	U
WS	01	509885001	4/15/2020	Th-228	3.66E+00	2.93E+00	4.24E+00	U
WS	01	509885001	4/15/2020	Zn-65	-1.38E+00	1.19E+00	3.66E+00	U
WS	01	509885001	4/15/2020	Zr-95	6.26E-01	9.60E-01	3.16E+00	U
WS	01	511584001	5/11/2020	Ac-228	-1.04E+01	5.70E+00	8.41E+00	U
WS	01	511584001	5/11/2020	Ag-108m	2.89E-01	4.76E-01	1.54E+00	U
WS	01	511584001	5/11/2020	Ag-110m	-2.47E-01	7.71E-01	2.48E+00	U
WS	01	511584001	5/11/2020	Ba-140	1.64E+00	3.48E+00	1.19E+01	U
WS	01	511584001	5/11/2020	Be-7	8.38E+00	5.35E+00	1.67E+01	U
WS	01	511584001	5/11/2020	Bi-214	-2.25E+00	2.24E+00	4.46E+00	U
WS	01	511584001	5/11/2020	Ce-141	2.38E+00	1.26E+00	3.61E+00	U
WS	01	511584001	5/11/2020	Ce-144	-2.86E+00	3.77E+00	1.25E+01	U
WS	01	511584001	5/11/2020	Co-57	0.00E+00	7.42E-01	1.61E+00	U
WS	01	511584001	5/11/2020	Co-58	1.28E+00	6.88E-01	1.99E+00	U
WS	01	511584001	5/11/2020	Co-60	-1.40E-01	5.87E-01	1.94E+00	U
WS	01	511584001	5/11/2020	Cr-51	-5.94E+00	5.72E+00	1.76E+01	U
WS	01	511584001	5/11/2020	Cs-134	5.55E-01	7.27E-01	2.02E+00	U
WS	01	511584001	5/11/2020	Cs-137	6.73E-02	5.76E-01	1.93E+00	U
WS	01	511584001	5/11/2020	Fe-59	-2.67E+00	1.49E+00	3.94E+00	U
WS	01	511584001	5/11/2020	I-131	1.46E-01	1.42E+00	4.61E+00	U
WS	01	511584001	5/11/2020	K-40	3.61E+02	2.55E+01	1.63E+01	
WS	01	511584001	5/11/2020	La-140	-4.51E-01	1.29E+00	4.15E+00	U
WS	01	511584001	5/11/2020	Mn-54	3.79E-01	5.67E-01	1.88E+00	U
WS	01	511584001	5/11/2020	Nb-95	1.35E+00	6.74E-01	2.12E+00	U
WS	01	511584001	5/11/2020	Pb-212	-5.68E+00	2.66E+00	4.21E+00	U
WS	01	511584001	5/11/2020	Pb-214	2.65E-02	2.44E+00	4.26E+00	U
WS	01	511584001	5/11/2020	Ru-103	-3.09E-01	7.49E-01	2.06E+00	U
WS	01	511584001	5/11/2020	Ru-106	-3.84E-01	4.86E+00	1.63E+01	U
WS	01	511584001	5/11/2020	Sb-124	-1.87E+00	1.50E+00	4.34E+00	U
WS	01	511584001	5/11/2020	Sb-125	1.20E+00	1.51E+00	4.87E+00	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
WS	01	511584001	5/11/2020	Se-75	3.34E-01	7.76E-01	2.57E+00	U
WS	01	511584001	5/11/2020	Th-228	-5.68E+00	2.66E+00	4.21E+00	U
WS	01	511584001	5/11/2020	Zn-65	-7.60E-01	1.24E+00	3.81E+00	U
WS	01	511584001	5/11/2020	Zr-95	2.87E+00	1.93E+00	3.67E+00	U
WS	01	514167001	6/16/2020	Ac-228	-2.20E+00	3.37E+00	8.24E+00	U
WS	01	514167001	6/16/2020	Ag-108m	4.42E-01	5.34E-01	1.55E+00	U
WS	01	514167001	6/16/2020	Ag-110m	-1.95E-01	8.24E-01	2.35E+00	U
WS	01	514167001	6/16/2020	Ba-140	7.16E-01	2.64E+00	8.43E+00	U
WS	01	514167001	6/16/2020	Be-7	5.85E+00	5.76E+00	1.49E+01	U
WS	01	514167001	6/16/2020	Bi-214	0.00E+00	2.42E+00	3.66E+00	U
WS	01	514167001	6/16/2020	Ce-141	-1.09E+00	1.01E+00	3.28E+00	U
WS	01	514167001	6/16/2020	Ce-144	1.42E-02	3.63E+00	1.24E+01	U
WS	01	514167001	6/16/2020	Co-57	4.30E-02	4.91E-01	1.69E+00	U
WS	01	514167001	6/16/2020	Co-58	4.18E-01	5.09E-01	1.71E+00	U
WS	01	514167001	6/16/2020	Co-60	1.07E+00	5.96E-01	1.98E+00	U
WS	01	514167001	6/16/2020	Cr-51	-5.80E+00	5.34E+00	1.65E+01	U
WS	01	514167001	6/16/2020	Cs-134	5.30E-01	5.61E-01	1.88E+00	U
WS	01	514167001	6/16/2020	Cs-137	1.09E+00	5.86E-01	1.89E+00	U
WS	01	514167001	6/16/2020	Fe-59	1.15E+00	1.33E+00	3.88E+00	U
WS	01	514167001	6/16/2020	I-131	-1.91E-01	9.36E-01	3.03E+00	U
WS	01	514167001	6/16/2020	K-40	3.26E+02	2.80E+01	1.94E+01	
WS	01	514167001	6/16/2020	La-140	6.02E-01	8.84E-01	3.01E+00	U
WS	01	514167001	6/16/2020	Mn-54	-8.03E-01	5.40E-01	1.57E+00	U
WS	01	514167001	6/16/2020	Nb-95	5.29E-01	7.42E-01	1.76E+00	U
WS	01	514167001	6/16/2020	Pb-212	8.45E+00	2.68E+00	3.26E+00	
WS	01	514167001	6/16/2020	Pb-214	3.78E+00	2.99E+00	4.69E+00	U
WS	01	514167001	6/16/2020	Ru-103	-1.11E+00	6.27E-01	1.70E+00	U
WS	01	514167001	6/16/2020	Ru-106	2.90E+00	4.66E+00	1.58E+01	U
WS	01	514167001	6/16/2020	Sb-124	-7.04E-01	1.17E+00	3.67E+00	U
WS	01	514167001	6/16/2020	Sb-125	-4.86E-01	1.58E+00	4.46E+00	U
WS	01	514167001	6/16/2020	Se-75	9.22E-01	7.53E-01	2.45E+00	U
WS	01	514167001	6/16/2020	Th-228	8.45E+00	2.68E+00	3.26E+00	
WS	01	514167001	6/16/2020	Zn-65	-5.69E-01	1.35E+00	3.71E+00	U
WS	01	514167001	6/16/2020	Zr-95	1.35E-01	9.14E-01	3.06E+00	U
WS	01	517017001	6/16/2020	H-3	-5.57E+01	1.34E+02	4.46E+02	U
WS	01	516195001	7/13/2020	Ac-228	3.12E+00	4.00E+00	8.82E+00	U
WS	01	516195001	7/13/2020	Ag-108m	-6.65E-01	5.33E-01	1.62E+00	U
WS	01	516195001	7/13/2020	Ag-110m	-6.63E-01	8.74E-01	2.82E+00	U
WS	01	516195001	7/13/2020	Ba-140	4.95E+00	3.42E+00	1.12E+01	U
WS	01	516195001	7/13/2020	Be-7	-2.05E+00	5.14E+00	1.67E+01	U
WS	01	516195001	7/13/2020	Bi-214	-6.02E-01	2.00E+00	4.65E+00	U
WS	01	516195001	7/13/2020	Ce-141	9.30E-01	1.06E+00	3.43E+00	U
WS	01	516195001	7/13/2020	Ce-144	-2.66E+00	3.94E+00	1.25E+01	U
WS	01	516195001	7/13/2020	Co-57	7.59E-01	5.43E-01	1.73E+00	U
WS	01	516195001	7/13/2020	Co-58	2.07E-01	7.03E-01	2.25E+00	U
WS	01	516195001	7/13/2020	Co-60	0.00E+00	1.42E+00	2.41E+00	U
WS	01	516195001	7/13/2020	Cr-51	-1.40E+00	5.45E+00	1.84E+01	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
WS	01	516195001	7/13/2020	Cs-134	5.47E-01	6.71E-01	2.18E+00	U
WS	01	516195001	7/13/2020	Cs-137	8.51E-01	6.91E-01	2.24E+00	U
WS	01	516195001	7/13/2020	Fe-59	-2.09E-01	1.53E+00	5.03E+00	U
WS	01	516195001	7/13/2020	I-131	-2.89E-01	1.11E+00	3.71E+00	U
WS	01	516195001	7/13/2020	K-40	3.27E+02	2.93E+01	2.02E+01	
WS	01	516195001	7/13/2020	La-140	-8.75E-01	1.05E+00	3.06E+00	U
WS	01	516195001	7/13/2020	Mn-54	-3.40E-01	5.63E-01	1.85E+00	U
WS	01	516195001	7/13/2020	Nb-95	-7.29E-01	6.93E-01	2.03E+00	U
WS	01	516195001	7/13/2020	Pb-212	0.00E+00	3.03E+00	4.52E+00	U
WS	01	516195001	7/13/2020	Pb-214	-3.07E+00	2.00E+00	4.61E+00	U
WS	01	516195001	7/13/2020	Ru-103	-5.88E-01	6.53E-01	2.04E+00	U
WS	01	516195001	7/13/2020	Ru-106	4.08E+00	5.39E+00	1.77E+01	U
WS	01	516195001	7/13/2020	Sb-124	-1.80E+00	1.51E+00	4.47E+00	U
WS	01	516195001	7/13/2020	Sb-125	-1.45E+00	1.59E+00	5.03E+00	U
WS	01	516195001	7/13/2020	Se-75	1.59E+00	9.01E-01	2.70E+00	U
WS	01	516195001	7/13/2020	Th-228	0.00E+00	3.03E+00	4.52E+00	U
WS	01	516195001	7/13/2020	Zn-65	-1.86E+00	1.47E+00	4.38E+00	U
WS	01	516195001	7/13/2020	Zr-95	4.02E-01	1.15E+00	3.71E+00	U
WS	01	518708001	8/10/2020	Ac-228	6.72E+00	5.61E+00	1.15E+01	U
WS	01	518708001	8/10/2020	Ag-108m	-6.37E-01	6.25E-01	1.94E+00	U
WS	01	518708001	8/10/2020	Ag-110m	2.07E-01	9.15E-01	3.13E+00	U
WS	01	518708001	8/10/2020	Ba-140	3.46E+00	3.90E+00	1.31E+01	U
WS	01	518708001	8/10/2020	Be-7	-1.62E+00	5.64E+00	1.84E+01	U
WS	01	518708001	8/10/2020	Bi-214	0.00E+00	3.02E+00	4.75E+00	U
WS	01	518708001	8/10/2020	Ce-141	8.30E-01	1.87E+00	3.90E+00	U
WS	01	518708001	8/10/2020	Ce-144	-3.20E+00	4.72E+00	1.50E+01	U
WS	01	518708001	8/10/2020	Co-57	7.48E-01	6.50E-01	2.12E+00	U
WS	01	518708001	8/10/2020	Co-58	-1.51E+00	8.62E-01	2.17E+00	U
WS	01	518708001	8/10/2020	Co-60	2.88E+00	1.45E+00	3.21E+00	U
WS	01	518708001	8/10/2020	Cr-51	-7.75E+00	6.88E+00	2.18E+01	U
WS	01	518708001	8/10/2020	Cs-134	-5.87E-01	1.05E+00	2.57E+00	U
WS	01	518708001	8/10/2020	Cs-137	-6.79E-01	8.42E-01	2.55E+00	U
WS	01	518708001	8/10/2020	Fe-59	2.04E+00	1.71E+00	5.85E+00	U
WS	01	518708001	8/10/2020	I-131	-1.74E-01	1.24E+00	4.17E+00	U
WS	01	518708001	8/10/2020	K-40	3.71E+02	3.28E+01	2.56E+01	
WS	01	518708001	8/10/2020	La-140	-1.37E+00	1.39E+00	3.91E+00	U
WS	01	518708001	8/10/2020	Mn-54	-5.92E-01	7.32E-01	2.34E+00	U
WS	01	518708001	8/10/2020	Nb-95	1.15E+00	7.98E-01	2.61E+00	U
WS	01	518708001	8/10/2020	Pb-212	1.89E+00	2.34E+00	4.29E+00	U
WS	01	518708001	8/10/2020	Pb-214	5.86E+00	3.26E+00	6.61E+00	U
WS	01	518708001	8/10/2020	Ru-103	2.80E-01	7.54E-01	2.53E+00	U
WS	01	518708001	8/10/2020	Ru-106	-1.60E+01	7.83E+00	1.95E+01	U
WS	01	518708001	8/10/2020	Sb-124	7.49E-02	1.71E+00	5.05E+00	U
WS	01	518708001	8/10/2020	Sb-125	4.61E-01	1.80E+00	6.09E+00	U
WS	01	518708001	8/10/2020	Se-75	9.86E-01	1.01E+00	3.20E+00	U
WS	01	518708001	8/10/2020	Th-228	1.89E+00	2.34E+00	4.29E+00	U
WS	01	518708001	8/10/2020	Zn-65	-2.39E+00	1.64E+00	4.57E+00	U
WS	01	518708001	8/10/2020	Zr-95	1.20E-01	1.33E+00	4.27E+00	U
WS	01	522263001	9/14/2020	Ac-228	-5.55E+00	4.02E+00	7.04E+00	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
WS	01	522263001	9/14/2020	Ag-108m	3.86E-02	3.82E-01	1.26E+00	U
WS	01	522263001	9/14/2020	Ag-110m	-9.78E-01	6.71E-01	1.91E+00	U
WS	01	522263001	9/14/2020	Ba-140	5.45E+00	3.49E+00	1.12E+01	U
WS	01	522263001	9/14/2020	Be-7	6.82E-01	4.23E+00	1.40E+01	U
WS	01	522263001	9/14/2020	Bi-214	-1.97E+00	1.78E+00	3.57E+00	U
WS	01	522263001	9/14/2020	Ce-141	-2.24E+00	1.14E+00	3.32E+00	U
WS	01	522263001	9/14/2020	Ce-144	1.14E+00	3.25E+00	1.10E+01	U
WS	01	522263001	9/14/2020	Co-57	3.13E-01	4.28E-01	1.45E+00	U
WS	01	522263001	9/14/2020	Co-58	-1.57E-02	4.92E-01	1.59E+00	U
WS	01	522263001	9/14/2020	Co-60	-1.46E-02	5.05E-01	1.60E+00	U
WS	01	522263001	9/14/2020	Cr-51	1.44E+00	5.08E+00	1.70E+01	U
WS	01	522263001	9/14/2020	Cs-134	4.61E-01	4.90E-01	1.54E+00	U
WS	01	522263001	9/14/2020	Cs-137	0.00E+00	6.21E-01	1.37E+00	U
WS	01	522263001	9/14/2020	Fe-59	-1.13E-01	1.04E+00	3.32E+00	U
WS	01	522263001	9/14/2020	I-131	7.29E-01	1.54E+00	5.14E+00	U
WS	01	522263001	9/14/2020	K-40	3.43E+02	2.67E+01	1.46E+01	
WS	01	522263001	9/14/2020	La-140	-5.66E-01	1.07E+00	3.50E+00	U
WS	01	522263001	9/14/2020	Mn-54	-3.55E-01	4.55E-01	1.41E+00	U
WS	01	522263001	9/14/2020	Nb-95	-9.42E-01	8.01E-01	1.64E+00	U
WS	01	522263001	9/14/2020	Pb-212	1.07E-01	1.92E+00	2.76E+00	U
WS	01	522263001	9/14/2020	Pb-214	-7.29E-01	1.85E+00	3.60E+00	U
WS	01	522263001	9/14/2020	Ru-103	-7.09E-01	5.63E-01	1.71E+00	U
WS	01	522263001	9/14/2020	Ru-106	-2.88E+00	3.96E+00	1.24E+01	U
WS	01	522263001	9/14/2020	Sb-124	7.74E-02	1.09E+00	3.70E+00	U
WS	01	522263001	9/14/2020	Sb-125	-2.34E-01	1.23E+00	4.03E+00	U
WS	01	522263001	9/14/2020	Se-75	-3.67E-01	6.43E-01	2.11E+00	U
WS	01	522263001	9/14/2020	Th-228	1.07E-01	1.92E+00	2.76E+00	U
WS	01	522263001	9/14/2020	Zn-65	1.47E-01	9.03E-01	2.91E+00	U
WS	01	522263001	9/14/2020	Zr-95	-1.58E+00	9.40E-01	2.61E+00	U
WS	01	526424001	9/14/2020	H-3	3.53E+01	1.65E+02	5.37E+02	U
WS	01	524955001	10/15/2020	Ac-228	4.08E+00	4.32E+00	5.64E+00	U
WS	01	524955001	10/15/2020	Ag-108m	-8.92E-01	4.36E-01	1.17E+00	U
WS	01	524955001	10/15/2020	Ag-110m	-1.43E+00	9.60E-01	2.00E+00	U
WS	01	524955001	10/15/2020	Ba-140	4.75E+00	3.22E+00	1.01E+01	U
WS	01	524955001	10/15/2020	Be-7	-7.56E-01	4.09E+00	1.32E+01	U
WS	01	524955001	10/15/2020	Bi-214	2.56E+00	2.36E+00	2.67E+00	U
WS	01	524955001	10/15/2020	Ce-141	-4.76E+00	1.73E+00	2.77E+00	U
WS	01	524955001	10/15/2020	Ce-144	2.83E+00	3.10E+00	9.79E+00	U
WS	01	524955001	10/15/2020	Co-57	3.94E-01	3.93E-01	1.24E+00	U
WS	01	524955001	10/15/2020	Co-58	-3.36E-01	4.73E-01	1.52E+00	U
WS	01	524955001	10/15/2020	Co-60	-1.35E-01	4.76E-01	1.59E+00	U
WS	01	524955001	10/15/2020	Cr-51	-7.39E+00	4.99E+00	1.51E+01	U
WS	01	524955001	10/15/2020	Cs-134	5.73E-01	5.18E-01	1.73E+00	U
WS	01	524955001	10/15/2020	Cs-137	3.15E-01	4.49E-01	1.53E+00	U
WS	01	524955001	10/15/2020	Fe-59	-1.09E+00	1.06E+00	3.21E+00	U
WS	01	524955001	10/15/2020	I-131	8.53E-01	1.25E+00	4.15E+00	U
WS	01	524955001	10/15/2020	K-40	3.10E+02	2.27E+01	1.38E+01	
WS	01	524955001	10/15/2020	La-140	-5.20E-01	9.78E-01	3.15E+00	U
WS	01	524955001	10/15/2020	Mn-54	-7.07E-01	4.73E-01	1.40E+00	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
WS	01	524955001	10/15/2020	Nb-95	2.80E-01	4.81E-01	1.62E+00	U
WS	01	524955001	10/15/2020	Pb-212	5.52E+00	2.03E+00	2.69E+00	
WS	01	524955001	10/15/2020	Pb-214	3.57E+00	2.23E+00	3.83E+00	U
WS	01	524955001	10/15/2020	Ru-103	-8.46E-01	5.75E-01	1.67E+00	U
WS	01	524955001	10/15/2020	Ru-106	-2.94E+00	4.15E+00	1.27E+01	U
WS	01	524955001	10/15/2020	Sb-124	6.05E-03	1.12E+00	3.72E+00	U
WS	01	524955001	10/15/2020	Sb-125	1.44E+00	1.25E+00	4.05E+00	U
WS	01	524955001	10/15/2020	Se-75	9.07E-02	5.80E-01	1.96E+00	U
WS	01	524955001	10/15/2020	Th-228	5.52E+00	2.03E+00	2.69E+00	
WS	01	524955001	10/15/2020	Zn-65	2.70E+00	1.08E+00	3.27E+00	U
WS	01	524955001	10/15/2020	Zr-95	1.30E-01	8.41E-01	2.83E+00	U
WS	01	528806001	11/17/2020	Ac-228	1.11E+00	4.28E+00	6.10E+00	U
WS	01	528806001	11/17/2020	Ag-108m	-5.98E-02	3.23E-01	1.08E+00	U
WS	01	528806001	11/17/2020	Ag-110m	-1.11E-02	5.75E-01	1.83E+00	U
WS	01	528806001	11/17/2020	Ba-140	4.45E+00	2.98E+00	9.65E+00	U
WS	01	528806001	11/17/2020	Be-7	4.15E+00	3.74E+00	1.24E+01	U
WS	01	528806001	11/17/2020	Bi-214	1.57E+00	1.94E+00	2.53E+00	U
WS	01	528806001	11/17/2020	Ce-141	-1.54E+00	8.85E-01	2.50E+00	U
WS	01	528806001	11/17/2020	Ce-144	1.48E+00	2.67E+00	8.60E+00	U
WS	01	528806001	11/17/2020	Co-57	4.16E-01	3.57E-01	1.13E+00	U
WS	01	528806001	11/17/2020	Co-58	7.40E-02	4.13E-01	1.33E+00	U
WS	01	528806001	11/17/2020	Co-60	7.11E-01	4.49E-01	1.49E+00	U
WS	01	528806001	11/17/2020	Cr-51	4.67E+00	4.20E+00	1.41E+01	U
WS	01	528806001	11/17/2020	Cs-134	1.77E-01	4.30E-01	1.40E+00	U
WS	01	528806001	11/17/2020	Cs-137	-1.14E-01	4.11E-01	1.26E+00	U
WS	01	528806001	11/17/2020	Fe-59	-4.41E-01	9.29E-01	3.06E+00	U
WS	01	528806001	11/17/2020	I-131	8.63E-01	1.25E+00	4.25E+00	U
WS	01	528806001	11/17/2020	K-40	3.50E+02	2.33E+01	1.13E+01	
WS	01	528806001	11/17/2020	La-140	-7.49E-01	1.05E+00	3.27E+00	U
WS	01	528806001	11/17/2020	Mn-54	-2.78E-01	4.25E-01	1.31E+00	U
WS	01	528806001	11/17/2020	Nb-95	1.54E-01	4.10E-01	1.33E+00	U
WS	01	528806001	11/17/2020	Pb-212	1.13E+00	1.65E+00	2.17E+00	U
WS	01	528806001	11/17/2020	Pb-214	-1.02E+00	1.44E+00	3.08E+00	U
WS	01	528806001	11/17/2020	Ru-103	-5.74E-01	4.75E-01	1.46E+00	U
WS	01	528806001	11/17/2020	Ru-106	5.04E+00	3.57E+00	1.16E+01	U
WS	01	528806001	11/17/2020	Sb-124	-7.17E-02	1.06E+00	3.45E+00	U
WS	01	528806001	11/17/2020	Sb-125	4.60E-02	1.02E+00	3.41E+00	U
WS	01	528806001	11/17/2020	Se-75	-4.96E-01	5.24E-01	1.73E+00	U
WS	01	528806001	11/17/2020	Th-228	1.13E+00	1.65E+00	2.17E+00	U
WS	01	528806001	11/17/2020	Zn-65	1.93E+00	9.56E-01	2.55E+00	U
WS	01	528806001	11/17/2020	Zr-95	-7.75E-01	8.18E-01	2.48E+00	U
WS	01	530337001	12/9/2020	Ac-228	-1.81E+00	3.37E+00	7.30E+00	U
WS	01	530337001	12/9/2020	Ag-108m	2.69E-02	4.21E-01	1.41E+00	U
WS	01	530337001	12/9/2020	Ag-110m	6.10E-01	6.91E-01	2.37E+00	U
WS	01	530337001	12/9/2020	Ba-140	-4.51E+00	3.56E+00	1.06E+01	U
WS	01	530337001	12/9/2020	Be-7	-6.53E+00	4.65E+00	1.39E+01	U
WS	01	530337001	12/9/2020	Bi-214	2.69E+00	2.36E+00	3.34E+00	U
WS	01	530337001	12/9/2020	Ce-141	-3.18E+00	1.67E+00	3.17E+00	U
WS	01	530337001	12/9/2020	Ce-144	-1.41E+00	3.18E+00	1.03E+01	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
WS	01	530337001	12/9/2020	Co-57	-4.67E-01	4.17E-01	1.29E+00	U
WS	01	530337001	12/9/2020	Co-58	-2.46E-01	5.89E-01	1.83E+00	U
WS	01	530337001	12/9/2020	Co-60	7.42E-01	6.22E-01	2.08E+00	U
WS	01	530337001	12/9/2020	Cr-51	-3.81E+00	5.07E+00	1.67E+01	U
WS	01	530337001	12/9/2020	Cs-134	4.47E-01	5.55E-01	1.80E+00	U
WS	01	530337001	12/9/2020	Cs-137	-3.16E-01	5.57E-01	1.75E+00	U
WS	01	530337001	12/9/2020	Fe-59	9.72E-01	1.26E+00	4.26E+00	U
WS	01	530337001	12/9/2020	I-131	-1.95E+00	1.52E+00	4.71E+00	U
WS	01	530337001	12/9/2020	K-40	3.58E+02	2.50E+01	1.32E+01	
WS	01	530337001	12/9/2020	La-140	-4.04E+00	2.90E+00	3.49E+00	U
WS	01	530337001	12/9/2020	Mn-54	1.93E-01	5.42E-01	1.74E+00	U
WS	01	530337001	12/9/2020	Nb-95	6.32E-01	5.77E-01	1.87E+00	U
WS	01	530337001	12/9/2020	Pb-212	-1.68E+00	1.51E+00	3.40E+00	U
WS	01	530337001	12/9/2020	Pb-214	-3.66E+00	2.07E+00	4.11E+00	U
WS	01	530337001	12/9/2020	Ru-103	-7.51E-01	6.05E-01	1.84E+00	U
WS	01	530337001	12/9/2020	Ru-106	-6.55E-01	4.57E+00	1.48E+01	U
WS	01	530337001	12/9/2020	Sb-124	-1.95E+00	1.66E+00	4.70E+00	U
WS	01	530337001	12/9/2020	Sb-125	-1.50E+00	1.35E+00	4.20E+00	U
WS	01	530337001	12/9/2020	Se-75	-4.08E-01	7.01E-01	2.13E+00	U
WS	01	530337001	12/9/2020	Th-228	-1.68E+00	1.51E+00	3.40E+00	U
WS	01	530337001	12/9/2020	Zn-65	-4.02E-02	1.20E+00	3.50E+00	U
WS	01	530337001	12/9/2020	Zr-95	-4.15E-01	1.10E+00	3.45E+00	U
WS	01	533258001	12/9/2020	H-3	-9.09E+01	9.97E+01	3.38E+02	U
WS	10	511584004	5/13/2020	Ac-228	3.43E+00	3.97E+00	5.58E+00	U
WS	10	511584004	5/13/2020	Ag-108m	3.06E-01	3.79E-01	1.26E+00	U
WS	10	511584004	5/13/2020	Ag-110m	-1.10E+00	6.11E-01	1.73E+00	U
WS	10	511584004	5/13/2020	Ba-140	6.51E-01	2.38E+00	7.82E+00	U
WS	10	511584004	5/13/2020	Be-7	-6.04E+00	3.91E+00	1.14E+01	U
WS	10	511584004	5/13/2020	Bi-214	-1.02E+00	1.85E+00	3.52E+00	U
WS	10	511584004	5/13/2020	Ce-141	-1.58E+00	9.77E-01	2.53E+00	U
WS	10	511584004	5/13/2020	Ce-144	1.03E-01	2.80E+00	8.92E+00	U
WS	10	511584004	5/13/2020	Co-57	-6.97E-02	3.70E-01	1.18E+00	U
WS	10	511584004	5/13/2020	Co-58	-2.76E-01	4.05E-01	1.33E+00	U
WS	10	511584004	5/13/2020	Co-60	1.18E+00	5.54E-01	1.74E+00	U
WS	10	511584004	5/13/2020	Cr-51	-3.19E+00	4.07E+00	1.32E+01	U
WS	10	511584004	5/13/2020	Cs-134	-5.72E-01	4.51E-01	1.40E+00	U
WS	10	511584004	5/13/2020	Cs-137	6.75E-01	4.86E-01	1.55E+00	U
WS	10	511584004	5/13/2020	Fe-59	3.08E-01	9.24E-01	3.10E+00	U
WS	10	511584004	5/13/2020	I-131	-1.31E-01	9.03E-01	3.00E+00	U
WS	10	511584004	5/13/2020	K-40	1.14E+02	1.55E+01	1.23E+01	
WS	10	511584004	5/13/2020	La-140	-1.31E+00	9.48E-01	2.20E+00	U
WS	10	511584004	5/13/2020	Mn-54	-6.44E-01	4.98E-01	1.33E+00	U
WS	10	511584004	5/13/2020	Nb-95	-6.32E-02	4.76E-01	1.50E+00	U
WS	10	511584004	5/13/2020	Pb-212	2.48E-01	1.42E+00	3.13E+00	U
WS	10	511584004	5/13/2020	Pb-214	1.11E-01	1.92E+00	3.39E+00	U
WS	10	511584004	5/13/2020	Ru-103	2.56E-02	5.21E-01	1.53E+00	U
WS	10	511584004	5/13/2020	Ru-106	1.59E+00	3.78E+00	1.23E+01	U
WS	10	511584004	5/13/2020	Sb-124	7.12E-01	1.02E+00	3.36E+00	U
WS	10	511584004	5/13/2020	Sb-125	-1.39E+00	1.20E+00	3.71E+00	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
WS	10	511584004	5/13/2020	Se-75	-5.58E-01	5.75E-01	1.87E+00	U
WS	10	511584004	5/13/2020	Th-228	2.48E-01	1.42E+00	3.13E+00	U
WS	10	511584004	5/13/2020	Zn-65	3.15E-02	8.58E-01	2.85E+00	U
WS	10	511584004	5/13/2020	Zr-95	-1.14E+00	8.80E-01	2.52E+00	U
WS	10	528806004	11/19/2020	Ac-228	0.00E+00	4.51E+00	6.61E+00	U
WS	10	528806004	11/19/2020	Ag-108m	-2.29E-01	4.18E-01	1.33E+00	U
WS	10	528806004	11/19/2020	Ag-110m	6.92E-01	7.15E-01	2.40E+00	U
WS	10	528806004	11/19/2020	Ba-140	-4.05E+00	3.31E+00	9.75E+00	U
WS	10	528806004	11/19/2020	Be-7	-1.47E+00	4.57E+00	1.46E+01	U
WS	10	528806004	11/19/2020	Bi-214	-2.74E+00	2.40E+00	3.93E+00	U
WS	10	528806004	11/19/2020	Ce-141	-2.53E+00	1.52E+00	2.54E+00	U
WS	10	528806004	11/19/2020	Ce-144	-2.55E+00	2.77E+00	8.34E+00	U
WS	10	528806004	11/19/2020	Co-57	-3.41E-02	3.46E-01	1.09E+00	U
WS	10	528806004	11/19/2020	Co-58	-3.59E-01	5.48E-01	1.78E+00	U
WS	10	528806004	11/19/2020	Co-60	4.07E-01	6.36E-01	1.85E+00	U
WS	10	528806004	11/19/2020	Cr-51	-5.04E+00	4.61E+00	1.44E+01	U
WS	10	528806004	11/19/2020	Cs-134	-1.10E-01	5.51E-01	1.84E+00	U
WS	10	528806004	11/19/2020	Cs-137	-1.32E-01	5.08E-01	1.71E+00	U
WS	10	528806004	11/19/2020	Fe-59	-1.60E+00	1.25E+00	3.71E+00	U
WS	10	528806004	11/19/2020	I-131	1.07E+00	1.27E+00	4.18E+00	U
WS	10	528806004	11/19/2020	K-40	2.26E+02	2.05E+01	1.88E+01	
WS	10	528806004	11/19/2020	La-140	1.53E+00	1.66E+00	3.65E+00	U
WS	10	528806004	11/19/2020	Mn-54	-1.41E+00	6.61E-01	1.49E+00	U
WS	10	528806004	11/19/2020	Nb-95	1.06E+00	5.85E-01	1.89E+00	U
WS	10	528806004	11/19/2020	Pb-212	2.15E+00	1.98E+00	3.04E+00	U
WS	10	528806004	11/19/2020	Pb-214	3.14E+00	1.95E+00	3.67E+00	U
WS	10	528806004	11/19/2020	Ru-103	-4.22E-01	5.49E-01	1.70E+00	U
WS	10	528806004	11/19/2020	Ru-106	8.85E-01	4.49E+00	1.44E+01	U
WS	10	528806004	11/19/2020	Sb-124	-1.33E+00	1.15E+00	3.42E+00	U
WS	10	528806004	11/19/2020	Sb-125	-1.69E+00	1.27E+00	3.79E+00	U
WS	10	528806004	11/19/2020	Se-75	-4.65E-01	5.43E-01	1.75E+00	U
WS	10	528806004	11/19/2020	Th-228	2.15E+00	1.98E+00	3.04E+00	U
WS	10	528806004	11/19/2020	Zn-65	1.72E+00	1.22E+00	3.98E+00	U
WS	10	528806004	11/19/2020	Zr-95	1.03E-01	9.26E-01	3.13E+00	U
WS	51	501556002	1/14/2020	Ac-228	5.18E+00	5.39E+00	8.24E+00	U
WS	51	501556002	1/14/2020	Ag-108m	3.24E-02	4.58E-01	1.38E+00	U
WS	51	501556002	1/14/2020	Ag-110m	-1.32E+00	7.70E-01	2.21E+00	U
WS	51	501556002	1/14/2020	Ba-140	-1.35E+00	2.29E+00	7.29E+00	U
WS	51	501556002	1/14/2020	Be-7	5.93E+00	4.28E+00	1.41E+01	U
WS	51	501556002	1/14/2020	Bi-214	1.49E+00	2.91E+00	3.34E+00	U
WS	51	501556002	1/14/2020	Ce-141	-1.21E+00	1.36E+00	2.72E+00	U
WS	51	501556002	1/14/2020	Ce-144	-4.41E-01	3.27E+00	1.07E+01	U
WS	51	501556002	1/14/2020	Co-57	-2.20E-01	4.20E-01	1.36E+00	U
WS	51	501556002	1/14/2020	Co-58	4.30E-03	5.25E-01	1.66E+00	U
WS	51	501556002	1/14/2020	Co-60	5.43E-01	5.85E-01	1.96E+00	U
WS	51	501556002	1/14/2020	Cr-51	3.86E+00	4.46E+00	1.52E+01	U
WS	51	501556002	1/14/2020	Cs-134	-1.04E+00	6.20E-01	1.65E+00	U
WS	51	501556002	1/14/2020	Cs-137	2.84E-01	5.47E-01	1.79E+00	U
WS	51	501556002	1/14/2020	Fe-59	1.09E+00	1.04E+00	3.51E+00	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
WS	51	501556002	1/14/2020	I-131	1.87E-01	7.80E-01	2.65E+00	U
WS	51	501556002	1/14/2020	K-40	3.21E+02	2.46E+01	1.83E+01	
WS	51	501556002	1/14/2020	La-140	-2.52E+00	1.01E+00	1.98E+00	U
WS	51	501556002	1/14/2020	Mn-54	-1.49E-01	4.72E-01	1.58E+00	U
WS	51	501556002	1/14/2020	Nb-95	2.14E-01	5.89E-01	1.70E+00	U
WS	51	501556002	1/14/2020	Pb-212	9.93E-01	2.04E+00	3.51E+00	U
WS	51	501556002	1/14/2020	Pb-214	7.46E-01	2.79E+00	4.16E+00	U
WS	51	501556002	1/14/2020	Ru-103	5.59E-01	5.70E-01	1.71E+00	U
WS	51	501556002	1/14/2020	Ru-106	8.65E+00	4.98E+00	1.58E+01	U
WS	51	501556002	1/14/2020	Sb-124	-6.33E-01	1.28E+00	4.16E+00	U
WS	51	501556002	1/14/2020	Sb-125	-1.72E+00	1.33E+00	4.05E+00	U
WS	51	501556002	1/14/2020	Se-75	-1.31E+00	7.82E-01	2.13E+00	U
WS	51	501556002	1/14/2020	Th-228	9.93E-01	2.04E+00	3.51E+00	U
WS	51	501556002	1/14/2020	Zn-65	1.16E-01	1.07E+00	3.57E+00	U
WS	51	501556002	1/14/2020	Zr-95	-1.38E+00	1.11E+00	2.76E+00	U
WS	51	504485002	2/11/2020	Ac-228	-9.60E+00	6.21E+00	1.03E+01	U
WS	51	504485002	2/11/2020	Ag-108m	-2.75E-01	6.01E-01	2.01E+00	U
WS	51	504485002	2/11/2020	Ag-110m	-7.01E-01	9.46E-01	2.87E+00	U
WS	51	504485002	2/11/2020	Ba-140	1.47E+00	3.49E+00	1.18E+01	U
WS	51	504485002	2/11/2020	Be-7	4.87E-01	5.86E+00	1.99E+01	U
WS	51	504485002	2/11/2020	Bi-214	-5.75E-01	3.21E+00	5.91E+00	U
WS	51	504485002	2/11/2020	Ce-141	-2.43E+00	1.83E+00	3.93E+00	U
WS	51	504485002	2/11/2020	Ce-144	-5.01E-01	4.69E+00	1.44E+01	U
WS	51	504485002	2/11/2020	Co-57	-1.67E+00	9.29E-01	1.84E+00	U
WS	51	504485002	2/11/2020	Co-58	-5.66E-01	6.92E-01	2.10E+00	U
WS	51	504485002	2/11/2020	Co-60	-1.86E+00	8.67E-01	2.07E+00	U
WS	51	504485002	2/11/2020	Cr-51	9.12E-01	7.28E+00	2.30E+01	U
WS	51	504485002	2/11/2020	Cs-134	-2.87E+00	1.42E+00	2.38E+00	U
WS	51	504485002	2/11/2020	Cs-137	-1.10E+00	7.91E-01	2.31E+00	U
WS	51	504485002	2/11/2020	Fe-59	-4.02E+00	1.75E+00	4.24E+00	U
WS	51	504485002	2/11/2020	I-131	-4.89E-01	1.52E+00	4.67E+00	U
WS	51	504485002	2/11/2020	K-40	3.17E+02	3.12E+01	2.52E+01	
WS	51	504485002	2/11/2020	La-140	-3.55E-01	1.53E+00	4.95E+00	U
WS	51	504485002	2/11/2020	Mn-54	-2.81E-02	6.79E-01	1.96E+00	U
WS	51	504485002	2/11/2020	Nb-95	1.69E-02	6.77E-01	2.21E+00	U
WS	51	504485002	2/11/2020	Pb-212	-2.73E+00	2.19E+00	4.85E+00	U
WS	51	504485002	2/11/2020	Pb-214	-5.76E+00	3.82E+00	5.98E+00	U
WS	51	504485002	2/11/2020	Ru-103	-5.63E-01	8.14E-01	2.36E+00	U
WS	51	504485002	2/11/2020	Ru-106	6.26E+00	6.18E+00	2.08E+01	U
WS	51	504485002	2/11/2020	Sb-124	8.27E-01	1.66E+00	5.64E+00	U
WS	51	504485002	2/11/2020	Sb-125	2.43E+00	1.81E+00	6.11E+00	U
WS	51	504485002	2/11/2020	Se-75	4.00E-01	1.31E+00	3.06E+00	U
WS	51	504485002	2/11/2020	Th-228	-2.73E+00	2.19E+00	4.85E+00	U
WS	51	504485002	2/11/2020	Zn-65	-2.06E+00	1.71E+00	4.42E+00	U
WS	51	504485002	2/11/2020	Zr-95	6.41E-01	1.29E+00	4.29E+00	U
WS	51	507593002	3/18/2020	Ac-228	6.58E-01	3.93E+00	1.02E+01	U
WS	51	507593002	3/18/2020	Ag-108m	-1.34E-01	5.40E-01	1.71E+00	U
WS	51	507593002	3/18/2020	Ag-110m	3.92E-01	7.98E-01	2.66E+00	U
WS	51	507593002	3/18/2020	Ba-140	-3.62E+00	2.95E+00	9.16E+00	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
WS	51	507593002	3/18/2020	Be-7	2.36E+00	5.13E+00	1.65E+01	U
WS	51	507593002	3/18/2020	Bi-214	-8.34E-01	2.47E+00	5.14E+00	U
WS	51	507593002	3/18/2020	Ce-141	-5.14E+00	2.06E+00	3.59E+00	U
WS	51	507593002	3/18/2020	Ce-144	-1.66E+00	3.90E+00	1.32E+01	U
WS	51	507593002	3/18/2020	Co-57	-4.32E-01	5.15E-01	1.70E+00	U
WS	51	507593002	3/18/2020	Co-58	3.52E-01	6.31E-01	2.11E+00	U
WS	51	507593002	3/18/2020	Co-60	1.40E+00	7.52E-01	2.49E+00	U
WS	51	507593002	3/18/2020	Cr-51	-3.70E+00	5.88E+00	1.87E+01	U
WS	51	507593002	3/18/2020	Cs-134	8.83E-01	7.03E-01	2.34E+00	U
WS	51	507593002	3/18/2020	Cs-137	-3.48E-01	6.04E-01	1.96E+00	U
WS	51	507593002	3/18/2020	Fe-59	2.17E+00	2.84E+00	4.62E+00	U
WS	51	507593002	3/18/2020	I-131	-1.38E+00	1.15E+00	3.45E+00	U
WS	51	507593002	3/18/2020	K-40	3.09E+02	2.75E+01	2.15E+01	
WS	51	507593002	3/18/2020	La-140	-1.32E+00	1.02E+00	2.94E+00	U
WS	51	507593002	3/18/2020	Mn-54	3.20E-02	5.86E-01	1.93E+00	U
WS	51	507593002	3/18/2020	Nb-95	1.77E-01	6.47E-01	2.16E+00	U
WS	51	507593002	3/18/2020	Pb-212	-4.60E+00	2.46E+00	4.65E+00	U
WS	51	507593002	3/18/2020	Pb-214	-1.60E+00	2.58E+00	4.88E+00	U
WS	51	507593002	3/18/2020	Ru-103	8.05E-01	7.81E-01	1.83E+00	U
WS	51	507593002	3/18/2020	Ru-106	2.39E+00	5.21E+00	1.77E+01	U
WS	51	507593002	3/18/2020	Sb-124	3.83E-01	1.73E+00	5.02E+00	U
WS	51	507593002	3/18/2020	Sb-125	8.61E-01	1.64E+00	5.32E+00	U
WS	51	507593002	3/18/2020	Se-75	1.11E+00	8.30E-01	2.69E+00	U
WS	51	507593002	3/18/2020	Th-228	-4.60E+00	2.46E+00	4.65E+00	U
WS	51	507593002	3/18/2020	Zn-65	-4.35E-01	1.45E+00	3.97E+00	U
WS	51	507593002	3/18/2020	Zr-95	7.53E-01	1.08E+00	3.64E+00	U
WS	51	510624002	3/18/2020	H-3	1.33E+02	1.13E+02	3.54E+02	U
WS	51	509885002	4/16/2020	Ac-228	6.38E-01	3.34E+00	6.91E+00	U
WS	51	509885002	4/16/2020	Ag-108m	-1.17E-01	4.27E-01	1.40E+00	U
WS	51	509885002	4/16/2020	Ag-110m	-3.44E-01	6.02E-01	1.82E+00	U
WS	51	509885002	4/16/2020	Ba-140	1.34E+00	2.25E+00	7.41E+00	U
WS	51	509885002	4/16/2020	Be-7	-5.55E+00	4.19E+00	1.26E+01	U
WS	51	509885002	4/16/2020	Bi-214	0.00E+00	2.12E+00	3.66E+00	U
WS	51	509885002	4/16/2020	Ce-141	-4.28E+00	1.75E+00	2.74E+00	U
WS	51	509885002	4/16/2020	Ce-144	1.03E+00	3.22E+00	1.04E+01	U
WS	51	509885002	4/16/2020	Co-57	-5.53E-01	4.46E-01	1.35E+00	U
WS	51	509885002	4/16/2020	Co-58	-5.13E-01	4.30E-01	1.34E+00	U
WS	51	509885002	4/16/2020	Co-60	1.53E-01	5.01E-01	1.66E+00	U
WS	51	509885002	4/16/2020	Cr-51	3.04E-01	4.24E+00	1.44E+01	U
WS	51	509885002	4/16/2020	Cs-134	8.87E-01	7.30E-01	1.62E+00	U
WS	51	509885002	4/16/2020	Cs-137	3.47E-01	5.05E-01	1.64E+00	U
WS	51	509885002	4/16/2020	Fe-59	1.34E+00	1.02E+00	3.40E+00	U
WS	51	509885002	4/16/2020	I-131	-9.97E-01	8.17E-01	2.54E+00	U
WS	51	509885002	4/16/2020	K-40	2.78E+02	2.40E+01	1.54E+01	
WS	51	509885002	4/16/2020	La-140	-2.95E-01	8.49E-01	2.66E+00	U
WS	51	509885002	4/16/2020	Mn-54	-7.87E-01	6.81E-01	1.48E+00	U
WS	51	509885002	4/16/2020	Nb-95	4.62E-01	4.98E-01	1.60E+00	U
WS	51	509885002	4/16/2020	Pb-212	0.00E+00	2.39E+00	3.45E+00	U
WS	51	509885002	4/16/2020	Pb-214	-1.97E+00	1.88E+00	3.62E+00	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
WS	51	509885002	4/16/2020	Ru-103	3.11E-01	5.23E-01	1.56E+00	U
WS	51	509885002	4/16/2020	Ru-106	-2.90E+00	4.67E+00	1.29E+01	U
WS	51	509885002	4/16/2020	Sb-124	0.00E+00	0.00E+00	3.67E+00	U
WS	51	509885002	4/16/2020	Sb-125	-2.09E+00	1.34E+00	3.95E+00	U
WS	51	509885002	4/16/2020	Se-75	4.94E-01	6.25E-01	2.13E+00	U
WS	51	509885002	4/16/2020	Th-228	0.00E+00	2.39E+00	3.45E+00	U
WS	51	509885002	4/16/2020	Zn-65	-1.63E+00	1.06E+00	3.03E+00	U
WS	51	509885002	4/16/2020	Zr-95	-8.84E-01	8.55E-01	2.51E+00	U
WS	51	511584002	5/14/2020	Ac-228	2.47E+00	3.49E+00	5.32E+00	U
WS	51	511584002	5/14/2020	Ag-108m	5.23E-01	4.03E-01	1.33E+00	U
WS	51	511584002	5/14/2020	Ag-110m	1.93E-01	5.95E-01	2.04E+00	U
WS	51	511584002	5/14/2020	Ba-140	1.95E+00	2.47E+00	8.19E+00	U
WS	51	511584002	5/14/2020	Be-7	2.25E+00	3.92E+00	1.31E+01	U
WS	51	511584002	5/14/2020	Bi-214	0.00E+00	3.08E+00	3.64E+00	U
WS	51	511584002	5/14/2020	Ce-141	0.00E+00	1.63E+00	2.54E+00	U
WS	51	511584002	5/14/2020	Ce-144	7.48E-01	2.95E+00	9.65E+00	U
WS	51	511584002	5/14/2020	Co-57	-2.20E-01	3.95E-01	1.27E+00	U
WS	51	511584002	5/14/2020	Co-58	-3.85E-01	4.72E-01	1.42E+00	U
WS	51	511584002	5/14/2020	Co-60	-1.96E-01	5.65E-01	1.58E+00	U
WS	51	511584002	5/14/2020	Cr-51	-2.15E+00	4.02E+00	1.34E+01	U
WS	51	511584002	5/14/2020	Cs-134	-9.71E-02	5.15E-01	1.63E+00	U
WS	51	511584002	5/14/2020	Cs-137	-6.96E-01	9.08E-01	1.86E+00	U
WS	51	511584002	5/14/2020	Fe-59	-9.30E-01	1.10E+00	3.02E+00	U
WS	51	511584002	5/14/2020	I-131	2.63E-01	8.36E-01	2.85E+00	U
WS	51	511584002	5/14/2020	K-40	2.84E+02	2.41E+01	1.54E+01	
WS	51	511584002	5/14/2020	La-140	-1.62E-01	7.91E-01	2.52E+00	U
WS	51	511584002	5/14/2020	Mn-54	-5.48E-01	4.54E-01	1.31E+00	U
WS	51	511584002	5/14/2020	Nb-95	-3.47E-01	4.98E-01	1.53E+00	U
WS	51	511584002	5/14/2020	Pb-212	1.99E-01	1.78E+00	3.41E+00	U
WS	51	511584002	5/14/2020	Pb-214	-1.23E+00	1.54E+00	3.51E+00	U
WS	51	511584002	5/14/2020	Ru-103	5.20E-01	5.43E-01	1.63E+00	U
WS	51	511584002	5/14/2020	Ru-106	3.28E+00	3.87E+00	1.27E+01	U
WS	51	511584002	5/14/2020	Sb-124	2.39E+00	1.24E+00	4.03E+00	U
WS	51	511584002	5/14/2020	Sb-125	2.88E+00	1.71E+00	3.84E+00	U
WS	51	511584002	5/14/2020	Se-75	3.29E-01	6.49E-01	2.04E+00	U
WS	51	511584002	5/14/2020	Th-228	1.99E-01	1.78E+00	3.41E+00	U
WS	51	511584002	5/14/2020	Zn-65	-3.73E-01	8.87E-01	2.89E+00	U
WS	51	511584002	5/14/2020	Zr-95	1.47E+00	1.11E+00	2.68E+00	U
WS	51	514167002	6/17/2020	Ac-228	-5.84E+00	4.37E+00	8.05E+00	U
WS	51	514167002	6/17/2020	Ag-108m	-1.59E-01	4.16E-01	1.37E+00	U
WS	51	514167002	6/17/2020	Ag-110m	-2.68E-01	6.74E-01	2.24E+00	U
WS	51	514167002	6/17/2020	Ba-140	-9.71E-01	2.28E+00	7.34E+00	U
WS	51	514167002	6/17/2020	Be-7	5.09E+00	4.34E+00	1.44E+01	U
WS	51	514167002	6/17/2020	Bi-214	0.00E+00	2.80E+00	3.44E+00	U
WS	51	514167002	6/17/2020	Ce-141	3.06E-01	8.58E-01	2.80E+00	U
WS	51	514167002	6/17/2020	Ce-144	1.38E+00	3.20E+00	1.05E+01	U
WS	51	514167002	6/17/2020	Co-57	3.37E-02	4.06E-01	1.34E+00	U
WS	51	514167002	6/17/2020	Co-58	7.58E-03	5.11E-01	1.62E+00	U
WS	51	514167002	6/17/2020	Co-60	7.50E-01	6.27E-01	2.09E+00	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
WS	51	514167002	6/17/2020	Cr-51	-2.06E+00	4.43E+00	1.49E+01	U
WS	51	514167002	6/17/2020	Cs-134	-2.72E-01	5.95E-01	1.74E+00	U
WS	51	514167002	6/17/2020	Cs-137	1.11E-01	5.53E-01	1.80E+00	U
WS	51	514167002	6/17/2020	Fe-59	-5.22E-01	1.18E+00	3.83E+00	U
WS	51	514167002	6/17/2020	I-131	3.92E-01	8.04E-01	2.73E+00	U
WS	51	514167002	6/17/2020	K-40	3.16E+02	2.42E+01	1.47E+01	
WS	51	514167002	6/17/2020	La-140	1.48E-01	9.21E-01	2.98E+00	U
WS	51	514167002	6/17/2020	Mn-54	-2.98E-01	5.01E-01	1.65E+00	U
WS	51	514167002	6/17/2020	Nb-95	5.66E-02	6.12E-01	1.74E+00	U
WS	51	514167002	6/17/2020	Pb-212	0.00E+00	1.86E+00	2.94E+00	U
WS	51	514167002	6/17/2020	Pb-214	2.81E+00	2.15E+00	3.67E+00	U
WS	51	514167002	6/17/2020	Ru-103	-6.56E-01	5.35E-01	1.62E+00	U
WS	51	514167002	6/17/2020	Ru-106	9.68E+00	5.05E+00	1.58E+01	U
WS	51	514167002	6/17/2020	Sb-124	-1.65E+00	1.43E+00	4.33E+00	U
WS	51	514167002	6/17/2020	Sb-125	1.08E+00	1.42E+00	4.33E+00	U
WS	51	514167002	6/17/2020	Se-75	5.66E-01	6.93E-01	2.17E+00	U
WS	51	514167002	6/17/2020	Th-228	0.00E+00	1.86E+00	2.94E+00	U
WS	51	514167002	6/17/2020	Zn-65	4.72E-01	1.29E+00	3.84E+00	U
WS	51	514167002	6/17/2020	Zr-95	3.67E-01	8.39E-01	2.72E+00	U
WS	51	517017002	6/17/2020	H-3	-3.80E+01	1.41E+02	4.69E+02	U
WS	51	516195002	7/15/2020	Ac-228	6.19E+00	5.30E+00	9.37E+00	U
WS	51	516195002	7/15/2020	Ag-108m	-4.75E-01	5.26E-01	1.66E+00	U
WS	51	516195002	7/15/2020	Ag-110m	-1.37E+00	8.30E-01	2.37E+00	U
WS	51	516195002	7/15/2020	Ba-140	3.43E+00	3.14E+00	1.04E+01	U
WS	51	516195002	7/15/2020	Be-7	-3.23E+00	5.11E+00	1.64E+01	U
WS	51	516195002	7/15/2020	Bi-214	-1.38E+00	1.97E+00	4.29E+00	U
WS	51	516195002	7/15/2020	Ce-141	0.00E+00	1.63E+00	3.38E+00	U
WS	51	516195002	7/15/2020	Ce-144	-6.36E+00	4.19E+00	1.23E+01	U
WS	51	516195002	7/15/2020	Co-57	3.46E-01	5.10E-01	1.67E+00	U
WS	51	516195002	7/15/2020	Co-58	-1.85E-01	6.75E-01	2.10E+00	U
WS	51	516195002	7/15/2020	Co-60	1.67E+00	7.19E-01	2.29E+00	U
WS	51	516195002	7/15/2020	Cr-51	9.88E+00	5.75E+00	1.88E+01	U
WS	51	516195002	7/15/2020	Cs-134	1.26E+00	7.54E-01	2.39E+00	U
WS	51	516195002	7/15/2020	Cs-137	-5.37E-01	6.64E-01	2.03E+00	U
WS	51	516195002	7/15/2020	Fe-59	3.35E+00	1.65E+00	5.28E+00	U
WS	51	516195002	7/15/2020	I-131	-2.65E-01	1.03E+00	3.44E+00	U
WS	51	516195002	7/15/2020	K-40	3.17E+02	2.96E+01	2.45E+01	
WS	51	516195002	7/15/2020	La-140	-1.07E+00	1.33E+00	3.36E+00	U
WS	51	516195002	7/15/2020	Mn-54	-3.00E-01	5.71E-01	1.88E+00	U
WS	51	516195002	7/15/2020	Nb-95	-2.96E-01	6.72E-01	1.97E+00	U
WS	51	516195002	7/15/2020	Pb-212	0.00E+00	2.46E+00	4.35E+00	U
WS	51	516195002	7/15/2020	Pb-214	-2.14E+00	1.91E+00	4.57E+00	U
WS	51	516195002	7/15/2020	Ru-103	-1.34E+00	7.19E-01	1.98E+00	U
WS	51	516195002	7/15/2020	Ru-106	6.33E+00	5.76E+00	1.71E+01	U
WS	51	516195002	7/15/2020	Sb-124	-2.62E-01	1.49E+00	4.96E+00	U
WS	51	516195002	7/15/2020	Sb-125	2.62E-01	1.50E+00	5.03E+00	U
WS	51	516195002	7/15/2020	Se-75	-3.78E-02	8.06E-01	2.50E+00	U
WS	51	516195002	7/15/2020	Th-228	0.00E+00	2.46E+00	4.35E+00	U
WS	51	516195002	7/15/2020	Zn-65	1.29E+00	1.37E+00	4.63E+00	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
WS	51	516195002	7/15/2020	Zr-95	1.13E+00	1.15E+00	3.73E+00	U
WS	51	518708002	8/11/2020	Ac-228	1.01E+01	8.45E+00	1.56E+01	U
WS	51	518708002	8/11/2020	Ag-108m	-2.89E-02	7.13E-01	2.29E+00	U
WS	51	518708002	8/11/2020	Ag-110m	-5.03E-01	1.25E+00	3.97E+00	U
WS	51	518708002	8/11/2020	Ba-140	4.64E-01	4.23E+00	1.35E+01	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
WS	51	518708002	8/11/2020	Be-7	-1.18E+01	8.68E+00	2.42E+01	U
WS	51	518708002	8/11/2020	Bi-214	1.01E+01	4.06E+00	5.60E+00	
WS	51	518708002	8/11/2020	Ce-141	-1.72E+00	1.68E+00	4.79E+00	U
WS	51	518708002	8/11/2020	Ce-144	1.03E+01	6.24E+00	2.07E+01	U
WS	51	518708002	8/11/2020	Co-57	1.15E-01	7.29E-01	2.51E+00	U
WS	51	518708002	8/11/2020	Co-58	-6.06E-01	8.91E-01	2.78E+00	U
WS	51	518708002	8/11/2020	Co-60	7.82E-01	1.00E+00	3.28E+00	U
WS	51	518708002	8/11/2020	Cr-51	4.94E+00	8.36E+00	2.78E+01	U
WS	51	518708002	8/11/2020	Cs-134	1.53E-01	8.48E-01	2.85E+00	U
WS	51	518708002	8/11/2020	Cs-137	6.06E-01	8.68E-01	3.00E+00	U
WS	51	518708002	8/11/2020	Fe-59	1.14E+00	1.96E+00	6.57E+00	U
WS	51	518708002	8/11/2020	I-131	4.79E-01	1.57E+00	5.17E+00	U
WS	51	518708002	8/11/2020	K-40	3.36E+02	3.68E+01	3.55E+01	DL
WS	51	518708002	8/11/2020	La-140	-3.48E+00	2.18E+00	4.95E+00	U
WS	51	518708002	8/11/2020	Mn-54	-3.72E-01	8.89E-01	2.85E+00	U
WS	51	518708002	8/11/2020	Nb-95	5.06E-03	9.47E-01	3.15E+00	U
WS	51	518708002	8/11/2020	Pb-212	2.86E+00	3.06E+00	5.34E+00	U
WS	51	518708002	8/11/2020	Pb-214	-1.06E+00	2.33E+00	7.06E+00	U
WS	51	518708002	8/11/2020	Ru-103	5.78E-01	9.40E-01	3.07E+00	U
WS	51	518708002	8/11/2020	Ru-106	-7.02E+00	8.56E+00	2.72E+01	U
WS	51	518708002	8/11/2020	Sb-124	3.15E+00	2.42E+00	8.56E+00	U
WS	51	518708002	8/11/2020	Sb-125	4.69E-01	2.27E+00	7.37E+00	U
WS	51	518708002	8/11/2020	Se-75	-1.52E+00	1.22E+00	3.66E+00	U
WS	51	518708002	8/11/2020	Th-228	2.86E+00	3.06E+00	5.34E+00	U
WS	51	518708002	8/11/2020	Zn-65	0.00E+00	2.90E+00	5.59E+00	U
WS	51	518708002	8/11/2020	Zr-95	-5.30E-01	1.57E+00	5.11E+00	U
WS	51	522263002	9/16/2020	Ac-228	0.00E+00	4.57E+00	5.15E+00	U
WS	51	522263002	9/16/2020	Ag-108m	-5.49E-01	3.94E-01	1.15E+00	U
WS	51	522263002	9/16/2020	Ag-110m	-6.95E-02	5.99E-01	1.97E+00	U
WS	51	522263002	9/16/2020	Ba-140	-3.20E-01	2.88E+00	9.09E+00	U
WS	51	522263002	9/16/2020	Be-7	3.16E+00	4.53E+00	1.30E+01	U
WS	51	522263002	9/16/2020	Bi-214	-9.67E-01	2.01E+00	3.62E+00	U
WS	51	522263002	9/16/2020	Ce-141	-1.35E+00	9.19E-01	2.88E+00	U
WS	51	522263002	9/16/2020	Ce-144	7.50E-01	2.93E+00	1.00E+01	U
WS	51	522263002	9/16/2020	Co-57	-2.11E-01	3.97E-01	1.34E+00	U
WS	51	522263002	9/16/2020	Co-58	-2.78E-01	5.02E-01	1.41E+00	U
WS	51	522263002	9/16/2020	Co-60	-1.23E-01	4.78E-01	1.60E+00	U
WS	51	522263002	9/16/2020	Cr-51	-6.27E-01	4.72E+00	1.54E+01	U
WS	51	522263002	9/16/2020	Cs-134	8.26E-01	5.05E-01	1.63E+00	U
WS	51	522263002	9/16/2020	Cs-137	-1.12E+00	4.97E-01	1.30E+00	U
WS	51	522263002	9/16/2020	Fe-59	8.99E-01	1.08E+00	3.53E+00	U
WS	51	522263002	9/16/2020	I-131	2.53E+00	1.42E+00	4.38E+00	U
WS	51	522263002	9/16/2020	K-40	3.44E+02	2.51E+01	1.49E+01	
WS	51	522263002	9/16/2020	La-140	-1.56E+00	1.07E+00	3.12E+00	U
WS	51	522263002	9/16/2020	Mn-54	1.08E-01	4.30E-01	1.43E+00	U
WS	51	522263002	9/16/2020	Nb-95	8.01E-02	8.29E-01	1.63E+00	U
WS	51	522263002	9/16/2020	Pb-212	-1.19E+00	1.91E+00	3.38E+00	U
WS	51	522263002	9/16/2020	Pb-214	6.54E-03	2.10E+00	3.72E+00	U
WS	51	522263002	9/16/2020	Ru-103	-5.41E-02	6.58E-01	1.45E+00	U
WS	51	522263002	9/16/2020	Ru-106	-2.06E+00	3.98E+00	1.32E+01	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
WS	51	522263002	9/16/2020	Sb-124	4.12E-01	1.25E+00	4.17E+00	U
WS	51	522263002	9/16/2020	Sb-125	-2.46E-01	1.27E+00	3.61E+00	U
WS	51	522263002	9/16/2020	Se-75	8.23E-01	6.49E-01	2.10E+00	U
WS	51	522263002	9/16/2020	Th-228	-1.19E+00	1.91E+00	3.38E+00	U
WS	51	522263002	9/16/2020	Zn-65	1.15E+00	1.10E+00	3.59E+00	U
WS	51	522263002	9/16/2020	Zr-95	-2.47E+00	1.02E+00	2.53E+00	U
WS	51	526424002	9/16/2020	H-3	-1.84E+02	1.57E+02	5.46E+02	U
WS	51	524955002	10/15/2020	Ac-228	-8.76E-01	3.04E+00	6.13E+00	U
WS	51	524955002	10/15/2020	Ag-108m	-1.81E-01	3.61E-01	1.06E+00	U
WS	51	524955002	10/15/2020	Ag-110m	1.33E-01	5.10E-01	1.66E+00	U
WS	51	524955002	10/15/2020	Ba-140	-8.61E-02	2.55E+00	8.48E+00	U
WS	51	524955002	10/15/2020	Be-7	-1.54E+00	3.61E+00	1.19E+01	U
WS	51	524955002	10/15/2020	Bi-214	0.00E+00	2.22E+00	2.63E+00	U
WS	51	524955002	10/15/2020	Ce-141	7.19E-01	8.05E-01	2.39E+00	U
WS	51	524955002	10/15/2020	Ce-144	-1.80E+00	2.73E+00	8.58E+00	U
WS	51	524955002	10/15/2020	Co-57	2.11E-01	3.43E-01	1.11E+00	U
WS	51	524955002	10/15/2020	Co-58	-1.89E-01	4.04E-01	1.27E+00	U
WS	51	524955002	10/15/2020	Co-60	5.11E-01	4.18E-01	1.43E+00	U
WS	51	524955002	10/15/2020	Cr-51	2.78E+00	4.07E+00	1.40E+01	U
WS	51	524955002	10/15/2020	Cs-134	-1.07E-01	4.32E-01	1.38E+00	U
WS	51	524955002	10/15/2020	Cs-137	-1.19E+00	5.15E-01	1.19E+00	U
WS	51	524955002	10/15/2020	Fe-59	-3.69E-01	9.22E-01	2.85E+00	U
WS	51	524955002	10/15/2020	I-131	-2.49E+00	1.16E+00	3.19E+00	U
WS	51	524955002	10/15/2020	K-40	3.34E+02	2.20E+01	1.17E+01	
WS	51	524955002	10/15/2020	La-140	5.02E-01	8.12E-01	2.76E+00	U
WS	51	524955002	10/15/2020	Mn-54	1.32E-01	3.97E-01	1.30E+00	U
WS	51	524955002	10/15/2020	Nb-95	5.28E-01	4.27E-01	1.40E+00	U
WS	51	524955002	10/15/2020	Pb-212	2.27E+00	1.87E+00	3.19E+00	U
WS	51	524955002	10/15/2020	Pb-214	-5.81E-01	1.57E+00	3.33E+00	U
WS	51	524955002	10/15/2020	Ru-103	-5.38E-01	8.39E-01	1.46E+00	U
WS	51	524955002	10/15/2020	Ru-106	9.97E-01	3.59E+00	1.19E+01	U
WS	51	524955002	10/15/2020	Sb-124	-9.43E-01	9.77E-01	2.93E+00	U
WS	51	524955002	10/15/2020	Sb-125	-6.09E-01	1.27E+00	2.93E+00	U
WS	51	524955002	10/15/2020	Se-75	5.97E-01	5.62E-01	1.75E+00	U
WS	51	524955002	10/15/2020	Th-228	2.27E+00	1.87E+00	3.19E+00	U
WS	51	524955002	10/15/2020	Zn-65	4.98E-01	9.25E-01	2.85E+00	U
WS	51	524955002	10/15/2020	Zr-95	-1.47E+00	7.80E-01	2.06E+00	U
WS	51	528806002	11/18/2020	Ac-228	-2.92E+00	3.69E+00	6.73E+00	U
WS	51	528806002	11/18/2020	Ag-108m	-3.44E-01	4.44E-01	1.26E+00	U
WS	51	528806002	11/18/2020	Ag-110m	2.25E-02	6.13E-01	1.98E+00	U
WS	51	528806002	11/18/2020	Ba-140	-3.02E-01	3.04E+00	9.96E+00	U
WS	51	528806002	11/18/2020	Be-7	5.31E+00	4.13E+00	1.35E+01	U
WS	51	528806002	11/18/2020	Bi-214	-2.33E+00	1.99E+00	3.49E+00	U
WS	51	528806002	11/18/2020	Ce-141	1.64E+00	1.13E+00	3.34E+00	U
WS	51	528806002	11/18/2020	Ce-144	1.57E+00	3.23E+00	1.10E+01	U
WS	51	528806002	11/18/2020	Co-57	2.26E-01	4.27E-01	1.45E+00	U
WS	51	528806002	11/18/2020	Co-58	-3.50E-01	5.19E-01	1.43E+00	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
WS	51	528806002	11/18/2020	Co-60	5.70E-01	5.33E-01	1.72E+00	U
WS	51	528806002	11/18/2020	Cr-51	-3.55E-01	5.05E+00	1.68E+01	U
WS	51	528806002	11/18/2020	Cs-134	1.38E-01	5.51E-01	1.61E+00	U
WS	51	528806002	11/18/2020	Cs-137	3.57E-01	4.87E-01	1.60E+00	U
WS	51	528806002	11/18/2020	Fe-59	-1.11E+00	1.14E+00	3.41E+00	U
WS	51	528806002	11/18/2020	I-131	-4.43E-01	3.13E+00	4.42E+00	U
WS	51	528806002	11/18/2020	K-40	3.25E+02	2.56E+01	1.43E+01	
WS	51	528806002	11/18/2020	La-140	-7.67E-01	9.43E-01	2.99E+00	U
WS	51	528806002	11/18/2020	Mn-54	3.54E-01	4.59E-01	1.50E+00	U
WS	51	528806002	11/18/2020	Nb-95	-1.12E-01	5.15E-01	1.66E+00	U
WS	51	528806002	11/18/2020	Pb-212	2.31E+00	2.18E+00	3.54E+00	U
WS	51	528806002	11/18/2020	Pb-214	-4.57E+00	2.27E+00	3.68E+00	U
WS	51	528806002	11/18/2020	Ru-103	-1.28E-01	6.92E-01	1.59E+00	U
WS	51	528806002	11/18/2020	Ru-106	-6.27E+00	4.18E+00	1.21E+01	U
WS	51	528806002	11/18/2020	Sb-124	1.74E+00	1.18E+00	4.02E+00	U
WS	51	528806002	11/18/2020	Sb-125	-2.34E-01	1.20E+00	3.95E+00	U
WS	51	528806002	11/18/2020	Se-75	2.15E-01	6.22E-01	2.09E+00	U
WS	51	528806002	11/18/2020	Th-228	2.31E+00	2.18E+00	3.54E+00	U
WS	51	528806002	11/18/2020	Zn-65	-4.50E-01	1.04E+00	3.24E+00	U
WS	51	528806002	11/18/2020	Zr-95	8.36E-02	8.78E-01	2.86E+00	U
WS	51	530337002	12/9/2020	Ac-228	1.98E+00	1.77E+00	5.77E+00	U
WS	51	530337002	12/9/2020	Ag-108m	-4.93E-01	3.58E-01	1.10E+00	U
WS	51	530337002	12/9/2020	Ag-110m	-1.26E-01	5.56E-01	1.77E+00	U
WS	51	530337002	12/9/2020	Ba-140	4.00E+00	2.90E+00	9.28E+00	U
WS	51	530337002	12/9/2020	Be-7	-2.35E+00	3.46E+00	1.13E+01	U
WS	51	530337002	12/9/2020	Bi-214	1.79E+00	2.34E+00	2.71E+00	U
WS	51	530337002	12/9/2020	Ce-141	9.96E-02	7.48E-01	2.46E+00	U
WS	51	530337002	12/9/2020	Ce-144	-7.61E-01	2.52E+00	8.22E+00	U
WS	51	530337002	12/9/2020	Co-57	2.87E-01	3.28E-01	1.08E+00	U
WS	51	530337002	12/9/2020	Co-58	-2.16E-01	3.94E-01	1.23E+00	U
WS	51	530337002	12/9/2020	Co-60	7.35E-01	4.28E-01	1.44E+00	U
WS	51	530337002	12/9/2020	Cr-51	-5.66E+00	4.64E+00	1.34E+01	U
WS	51	530337002	12/9/2020	Cs-134	-3.75E-01	7.58E-01	1.48E+00	U
WS	51	530337002	12/9/2020	Cs-137	-2.48E-01	4.18E-01	1.33E+00	U
WS	51	530337002	12/9/2020	Fe-59	-8.02E-01	9.94E-01	2.96E+00	U
WS	51	530337002	12/9/2020	I-131	-2.08E-01	1.15E+00	3.94E+00	U
WS	51	530337002	12/9/2020	K-40	2.77E+02	2.03E+01	1.46E+01	
WS	51	530337002	12/9/2020	La-140	-5.80E-01	1.02E+00	3.25E+00	U
WS	51	530337002	12/9/2020	Mn-54	2.44E-01	4.09E-01	1.35E+00	U
WS	51	530337002	12/9/2020	Nb-95	-9.18E-02	5.32E-01	1.53E+00	U
WS	51	530337002	12/9/2020	Pb-212	9.01E-01	1.55E+00	4.16E+00	U
WS	51	530337002	12/9/2020	Pb-214	1.49E+00	1.93E+00	3.37E+00	U
WS	51	530337002	12/9/2020	Ru-103	-3.34E-01	5.02E-01	1.46E+00	U
WS	51	530337002	12/9/2020	Ru-106	-1.83E+00	3.53E+00	1.14E+01	U
WS	51	530337002	12/9/2020	Sb-124	-7.22E-01	9.61E-01	2.94E+00	U
WS	51	530337002	12/9/2020	Sb-125	2.53E-01	1.01E+00	3.44E+00	U
WS	51	530337002	12/9/2020	Se-75	1.71E+00	9.01E-01	1.83E+00	U
WS	51	530337002	12/9/2020	Th-228	9.01E-01	1.55E+00	4.16E+00	U
WS	51	530337002	12/9/2020	Zn-65	4.82E-01	9.00E-01	2.77E+00	U
WS	51	530337002	12/9/2020	Zr-95	-7.03E-01	7.79E-01	2.39E+00	U

SAMPLE TYPE	STATION	LSN	END DATE	NUCLIDE	CONC (pCi/L)	STD.DEV. (pCi/ L)	MDC (pCi/ L)	FLAGS
WS	51	533258002	12/9/2020	H-3	1.38E+02	1.08E+02	3.38E+02	U

FLAGS

A blank Flag field indicates that the measured activity is considered positive as it is greater than the MDC and has no other qualifiers noted.

U: **Target isotope was analyzed for but not detected above the MDC and LLD.**
UI: **Uncertain identification for gamma spectroscopy.**
X: **Lab-specific qualifier:**
(1) False positive due to the presence of radon gas in the water.
M: **Reported result is less than the LLD and greater than the MDC.**
DL: **Measured MDC is greater than the LLD.**
DL*: **Near miss of MDC being within round-off difference of being greater than the LLD.**