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U.S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, DC 20555-0001

Serial No. 26-086
MPS Lic/JP R0
Docket Nos. 50-245
50-336
50-423
License Nos. DPR-21
DPR-65
NPF-49

APR 13 2026

DOMINION ENERGY NUCLEAR CONNECTICUT, INC.
MILLSTONE POWER STATION UNITS 1, 2, AND 3
2025 ANNUAL RADIOLOGICAL ENVIRONMENTAL OPERATING REPORT (REOR)

This letter transmits the Annual Radiological Environmental Operating Report for the Millstone Power Station, for the period January 1, 2025, through December 31, 2025. This satisfies the provisions of Section 5.7.2 of Millstone Power Station Unit 1 Permanently Defueled Technical Specifications (PDTs), and Sections 6.9.1.6A and 6.9.1.3 of the Millstone Power Station Units 2 and 3 Technical Specifications, respectively.

Should you have any questions, please contact Ms. Lori Kelley at (860) 447-1791 x Ext 6520.

Sincerely,

A handwritten signature in black ink that reads "Mark Goolsbey".

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Attachments: 1

Commitments made in this letter:

1. None.

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ATTACHMENT 1

2025 ANNUAL RADIOLOGICAL ENVIRONMENTAL OPERATING REPORT

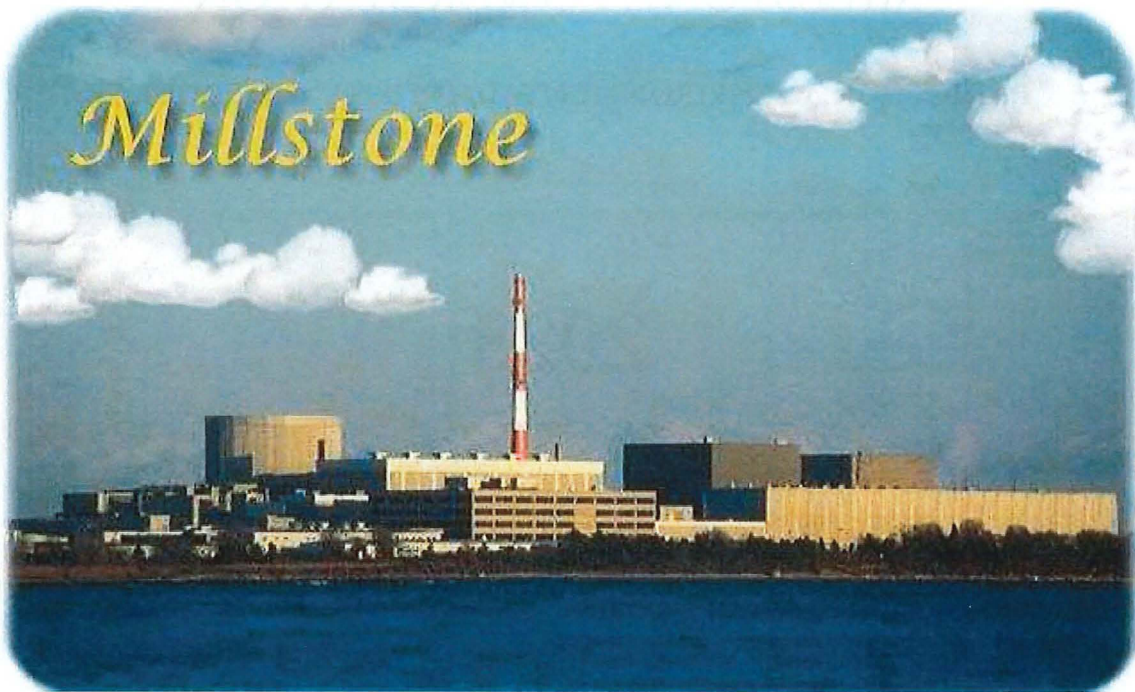
**MILLSTONE POWER STATION UNITS 1, 2, AND 3
DOMINION ENERGY NUCLEAR CONNECTICUT, INC. (DENC)**

Millstone Power Station

2025

Radiological Environmental Operating Report

January 1, 2025 – December 31, 2025



Dominion Energy Nuclear Connecticut, Inc.

Unit	License	Docket
1	DPR-21	50-245
2	DPR-65	50-336
3	NPF-49	50-423



**ANNUAL
RADIOLOGICAL ENVIRONMENTAL
OPERATING REPORT**

MILLSTONE POWER STATION

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM

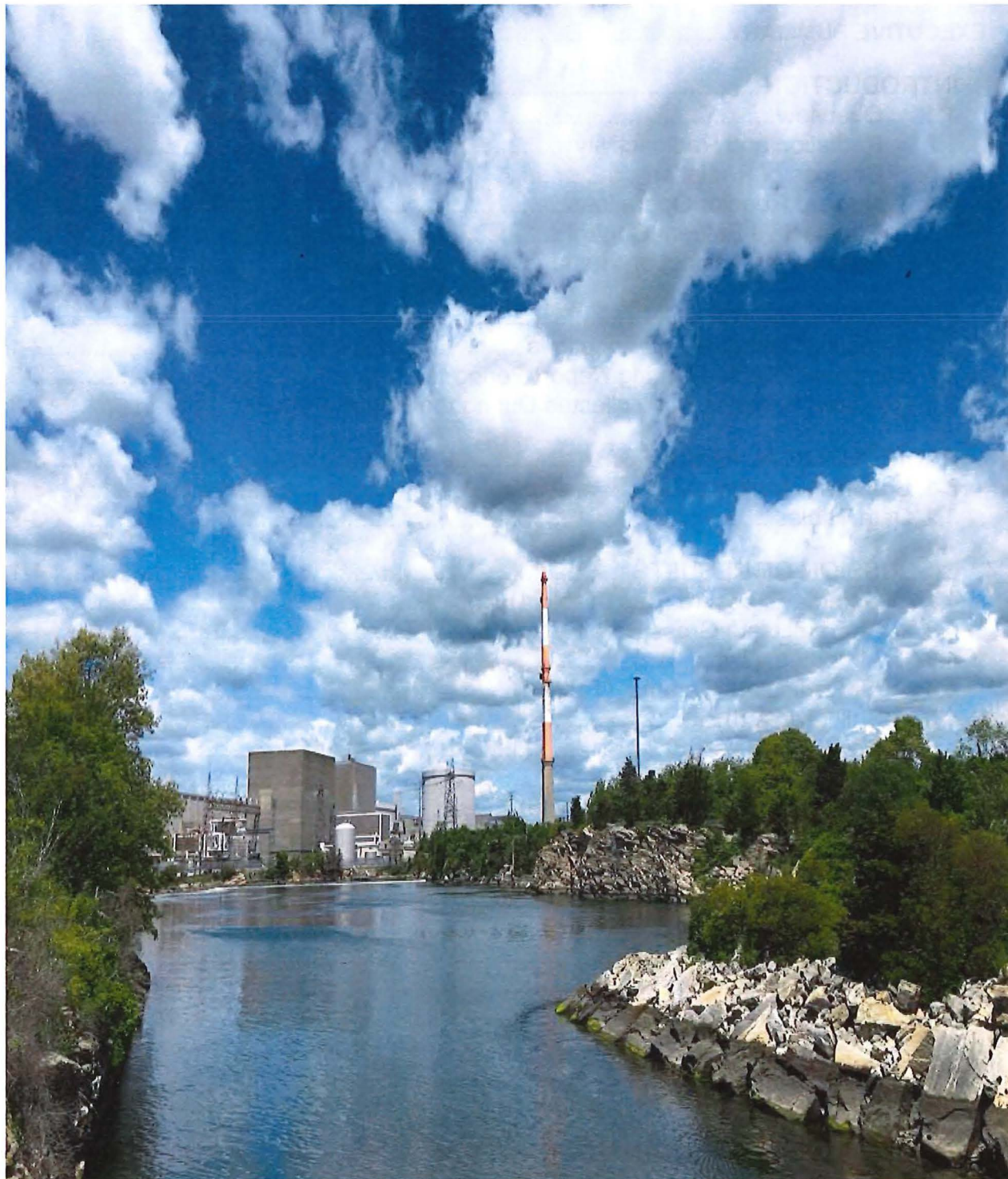
2025

**Millstone Power Station Unit 1, DOCKET NO. 50-245
Millstone Power Station Unit 2, DOCKET NO. 50-336
Millstone Power Station Unit 3, DOCKET NO. 50-423**

**Dominion Energy Nuclear Connecticut, Inc.
Waterford, Connecticut**

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EXECUTIVE SUMMARY

INTRODUCTION

This report summarizes the results of the Radiological Environmental Monitoring Program (REMP) conducted in the vicinity of the Millstone Power Station (MPS) during the period from January 1, 2025, to December 31, 2025. This document has been prepared in accordance with the requirements of the separate MPS Unit 1 (MPS1) Permanently Defueled Technical Specifications and the Technical Specifications for Millstone Units 2 and 3 (MPS2 and MPS3).

The REMP has been established to monitor the radiation and radioactivity released to the environment as a result of MPS operation. This program, initiated in April 1967, includes the collection, analysis, and evaluation of radiological data to assess the impact of MPS on the environment and on the general public.

SAMPLING AND ANALYSIS

The environmental sampling media collected in the vicinity of MPS and at distant locations included aquatic, atmospheric, and terrestrial samples. These samples were air particulate filters, charcoal cartridges, soil, well water, broadleaf vegetation, fruits and vegetables, seawater, bottom sediment, aquatic flora, fish, oysters, clams, and lobsters.

During 2025, there were 525 samples collected from the atmospheric, aquatic, and terrestrial environments. In addition, 172 exposure measurements were obtained using environmental thermo luminescent dosimeters (TLDs). A discussion of all discrepancies from the sample collection requirements in the MPS Radiological Effluent Monitoring and Offsite Dose Calculation Manual (REMODCM) is given in Section 2.3 of this report. Teledyne Brown Engineering, Inc. of Knoxville, Tennessee performed the sample analyses and Environmental Dosimetry Company of Sterling, Massachusetts, performed the TLD analyses.

LAND USE CENSUS

The annual land use census in the vicinity of MPS was conducted as required by the MPS REMODCM. To determine the dairy exposure pathway, a list of cow milk and goat milk locations is established. The list of cow milk locations is identified by a review of the annual registration information obtained from the State of Connecticut Department of Agriculture. The list of goat milk locations is identified by the information obtained from the American Dairy Goat Association list and by inspections performed in the field. Although broadleaf sampling was performed and may be used in lieu of a garden census, gardens were included in the 2025 census. Only vegetable gardens having an area of more than 500 square feet were identified. Due to the difficulty of measuring individual gardens, the nearest garden within each directional sector identified by a drive-by survey is listed. However, for dose calculation, garden distances are based on nearest resident assuming that a resident may plant a new garden. This gives a more conservative dose estimate.

RADIOLOGICAL IMPACT TO THE ENVIRONMENT

The radionuclides detected in some samples were from non-station, naturally occurring radionuclides.

All terrestrial samples collected as part of the MPS REMP did not show any station related isotopes.

The seawater exiting the stations quarry is monitored for all station generated radionuclides. Tritium was only found in seawater onsite inside the mixing zone of the quarry discharge at levels that were expected from routine station operation.

Offsite ambient radiation measurements using environmental TLDs beyond the site boundary ranged between 39 - 105 milliroentgens (mrem) per year. The range of ambient radiation levels observed with the TLDs is consistent with natural background radiation levels for Connecticut.

RADIOLOGICAL IMPACT TO THE GENERAL PUBLIC

During 2025, radiation doses to the general public as a result of Millstone's operation continued to be well below the federal limits and much less than the dose due to other sources of man-made (e.g., X-rays, medical) and naturally occurring (e.g., cosmic, radon) radiation.

The calculated total body (whole body) dose to the maximally exposed member of the public from radioactive effluents and ambient radiation resulting from MPS operations for 2025 was approximately 0.41 mrem for the year. This conservative estimate is well below the Environmental Protection Agency's (EPA) annual dose limit to any member of the general public and is a fraction of a percent of the typical dose received from natural and other sources of man-made radiation.

CONCLUSIONS

The 2025 REMP for MPS resulted in the collection and analysis of 697 environmental samples and measurements. The data obtained were used to determine the impact of Millstone's operation on the environment and on the general public.

An evaluation of direct radiation measurements, environmental sample analyses, and dose calculations indicates all applicable federal criteria were met with margin. Furthermore, radiation levels and the consequential dose from station operation were small in comparison to those attributed to naturally occurring and man-made background radiation.

Based on this information, there is no significant radiological impact on the environment or on the general public due to Millstone's operation. The 2025 REMP samples results are consistent with previous years with no trends evident.

1. INTRODUCTION

This section provides an overview of the MPS REMP. It also includes background information to allow a reader to have an informed understanding of radiation and nuclear power operation.

1.1 Overview

The 2025 REMP performed by Dominion Energy Nuclear Connecticut (DENC) for MPS is discussed in this report. Since the operation of a nuclear power station results in the release of small amounts of radioactivity and low levels of radiation, the Nuclear Regulatory Commission (NRC) requires by regulations and technical specifications that a program be established to monitor radiation and radioactivity in the environment (References 1, 6, 9, 10, & 11). This report published annually per Millstone's Technical Specifications (section 5.7.2 for MPS1, section 6.9.1.6a for MPS2 and Section 6.9.1.3 for MPS3), summarizes the results of measurements of radiation and radioactivity in the environment in the vicinity of the MPS and at distant locations during the period January 1, 2025, to December 31, 2025.

The REMP consists of taking radiation measurements and collecting samples from the environment, analyzing them for radioactivity content, and interpreting the results. With emphasis on the critical radiation exposure pathways to humans, samples from the aquatic, atmospheric, and terrestrial environments are collected. These samples include, but are not limited to air, soil, well water, broadleaf vegetation, fruits, vegetables, seawater, bottom sediment, aquatic flora, fish, oysters, clams, and lobsters.

Thermoluminescent dosimeters (TLDs) are placed in the environment to measure gamma radiation levels. The TLDs are processed, and the environmental samples are analyzed to measure the very low levels of radiation and radioactivity present in the environment as a result of MPS operation and other natural and man-made sources. These results are reviewed by Millstone's radiological staff and have been reported semiannually or annually to the NRC and others for over 30 years.

To more fully understand how a nuclear power station impacts humans and the environment, background information on radiation and radioactivity, natural and man-made sources of radiation, reactor operations, radioactive effluent controls, and radiological impact on humans is provided. It is believed that this information will assist the reader in understanding the radiological impact on the environment and humans from the operation of Millstone.

1.2 Radiation and Radioactivity

All matter is made of atoms. Nuclear radiation is energy or particles that are given off from atoms in an excited state (e.g., unstable, radioactive atoms).

Radioactive material exists naturally and has always been a part of our environment. The earth's crust, for example, contains radioactive uranium, radium, thorium, and potassium. Some radioactivity is a result of fallout from nuclear weapons testing. Examples of radioactive fallout that could be present in environmental samples are cesium-137 and strontium-90. Some examples of radioactive materials released from a nuclear power station are hydrogen-3 (tritium), cesium-137, iodine-131, strontium-90, and cobalt-60.

Radiation is measured in units of mrem, much like temperature is measured in degrees. A mrem is a measure of the biological effect of the energy deposited in tissue. The letter 'm' is for 'milli', or one-thousandth of a 'rem'. The word 'rem' is an acronym for roentgen equivalent man. One rem is equal to a 'rad' multiplied by factors to account for type of radiation and distribution within the body. The word 'rad' is an acronym for radiation absorbed dose. One rad is equal to the absorption of 100 ergs of energy per gram of tissue. The natural and man-made radiation dose received in one year by the average American is 300 to 600 mrem (References 2, 3, 4 & 5). The per capita dose has increased since the early 1980's because of the increased usage of medical procedures involving exposure to radiation (Reference 3).

Radioactivity is measured in Curies. Levels of radioactivity commonly seen in the environment are typically a small fraction of a Curie, therefore radioactivity in the environment is typically measured in picocuries. One picocurie (pCi) is one-trillionth of a Curie and is equal to 0.037 disintegrations per second (2.22 disintegrations per minute).

1.3 Sources of Radiation

As mentioned previously, naturally occurring radioactivity has always been a part of our environment. Table 1.3-1 shows the sources and doses of radiation from natural and man-made sources.

Table 1.3-1
 Radiation Sources and Corresponding Approximate Doses⁽¹⁾

NATURAL		MAN-MADE	
Source	Radiation Dose (mrem/year)	Source	Radiation Dose (mrem/year)
Internal, inhalation ⁽²⁾	228	Medical ⁽³⁾	300
External, space	33	Consumer ⁽⁴⁾	12.3
Internal, ingestion	29	Industrial, security, educational, research	0.3
External, terrestrial	21	Occupational	0.5
		Weapons Fallout	< 1
		Nuclear Power Stations	< 1
Approximate Total	311	Approximate Total	314

(1) information from References 3 and 4

(2) from radon and thoron

(3) includes computerized tomography (147 mrem), nuclear medicine (77 mrem), interventional fluoroscopy (43 mrem) and conventional radiography and fluoroscopy (33 mrem)

(4) primarily from cigarette smoking (4.6 mrem), commercial air travel (3.4 mrem), building materials (3.5 mrem) and mining and agriculture (0.8 mrem)

Cosmic radiation (external, space) from the sun and outer space penetrates the earth's atmosphere and continuously bombards us with rays and charged particles. Some of this cosmic radiation interacts with gases and particles in the atmosphere, making them radioactive. These radioactive byproducts from cosmic ray bombardment are referred to as cosmogenic radionuclides. Isotopes such as beryllium-7 and carbon-14 are formed in this way. Exposure to cosmic and cosmogenic sources of radioactivity results in about 33 mrem of radiation dose per year.

Additionally, natural radioactivity is in our body and in the food, we eat (about 29 mrem/year), the ground we walk on (about 21 mrem/year) and the air we breathe (about 228 mrem/year). Most of a person's annual dose results from exposure to radon and thoron in the air we breathe. These gases and their radioactive decay products arise from the decay of naturally occurring uranium, thorium and radium in the soil and building products such as brick, stone, and concrete. Radon and thoron levels vary greatly with location, primarily due to changes in the concentration of uranium and thorium in the soil. Residents at some locations in Colorado, New York, Pennsylvania, New Jersey, and even Connecticut have a higher annual dose because of higher levels of radon/thoron gases in these areas. In total, these various sources of naturally occurring radiation and radioactivity contribute to a total dose of about 311 mrem per year.

In addition to natural radiation, we are normally exposed to radiation from a number of man-made sources. The single largest doses from man-made sources result from therapeutic and diagnostic applications of x-rays and radiopharmaceuticals. The annual dose to an individual in the United States from medical and dental exposure is approximately 300 mrem. Consumer products/uses, such as cigarettes, building materials and commercial air travel contribute about 13 mrem/year. Much smaller doses result from weapons fallout (less than 1 mrem/year) and nuclear power stations (less than 1 mrem/year). Typically, the average person in the United States receives approximately 314 mrem per year from man-made sources.

1.4 Nuclear Reactor Operations

MPS generates about 2100 megawatts of electricity at full power, which provides approximately 47% of the power consumed in the State of Connecticut. MPS2 and MPS3 are pressurized water reactors (MPS1, which is permanently shut down, was a boiling water reactor). The nuclear station is located on an approximate 500-acre site about three miles (five kilometers) west of New London, Connecticut. Commercial operation of MPS2 began in December 1975 and MPS3 in May 1986.

In 2025, MPS had one planned refueling outage for MP3 in April. The annual capacity factor for MPS2 was 99.97% and for MPS3 was 84.52%.

Nuclear-generated electricity is produced by many of the same techniques used for conventional oil and coal-generated electricity. Both systems use heat to boil water to produce steam. The steam turns a turbine, which turns a generator, producing electricity. In both cases, the steam passes through a condenser where it changes back into water and re-circulates back through the system (see Figure 1.4-1). The cooling water source for MPS is the Niantic Bay.

The key difference between nuclear power and conventional power is the source of heat used to boil the water. Conventional stations burn fossil fuels in a boiler, while nuclear stations use uranium fission in a nuclear reactor.

Inside the reactor, a nuclear reaction called fission takes place. Particles, called neutrons, strike the nucleus of a uranium-235 atom, causing it to split into fragments called radioactive fission products. The splitting of the atoms releases both heat and more neutrons. The newly released neutrons then collide with and split other uranium atoms, thus making more heat and releasing even more neutrons, and on and on until the uranium fuel is depleted or spent. This process is called a chain reaction. When this chain reaction is self-sustaining, the reactor is called "critical."

The operation of a nuclear reactor results in the release of small amounts of radioactivity and low levels of radiation. The radioactivity originates from two major sources, radioactive fission products, and radioactive activation products. Radioactive fission products, as illustrated in Figure 1.4-1, originate from the fissioning of nuclear fuel. These fission products get into the reactor coolant from their release by minute amounts of uranium on the outside surfaces of the fuel cladding, by diffusion through the fuel pellets and cladding and, on occasion, through defects or failures in the fuel cladding. These fission products circulate along with the reactor coolant water and will deposit on the internal surfaces of pipes and equipment. The radioactive fission products on the pipes and equipment emit radiation. Examples of some fission products are krypton-85 (Kr-85), strontium-90 (Sr-90), iodine-131 (I-131), xenon-133 (Xe-133), and cesium-137 (Cs-137).

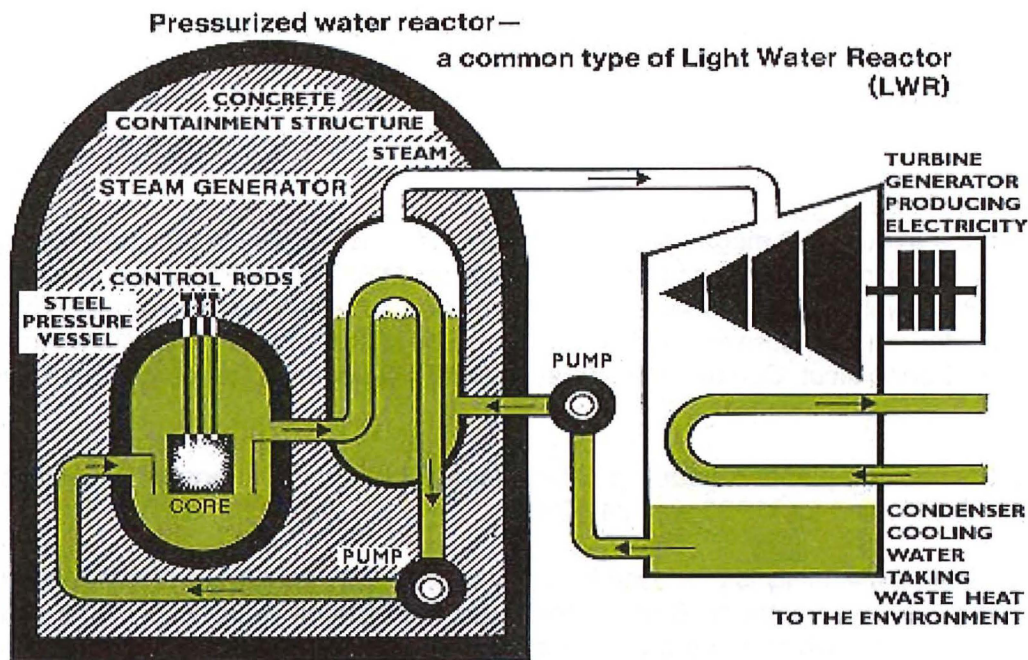


Figure 1.4-1: SIMPLIFIED DIAGRAM OF A PRESSURIZED WATER REACTOR

Nuclear Fission: fission is the splitting of atoms (e.g., uranium-235) by a neutron to release heat and more neutrons, creating a chain reaction. Radiation and fission products are by-products of the process as illustrated in Figure 1.4-2.

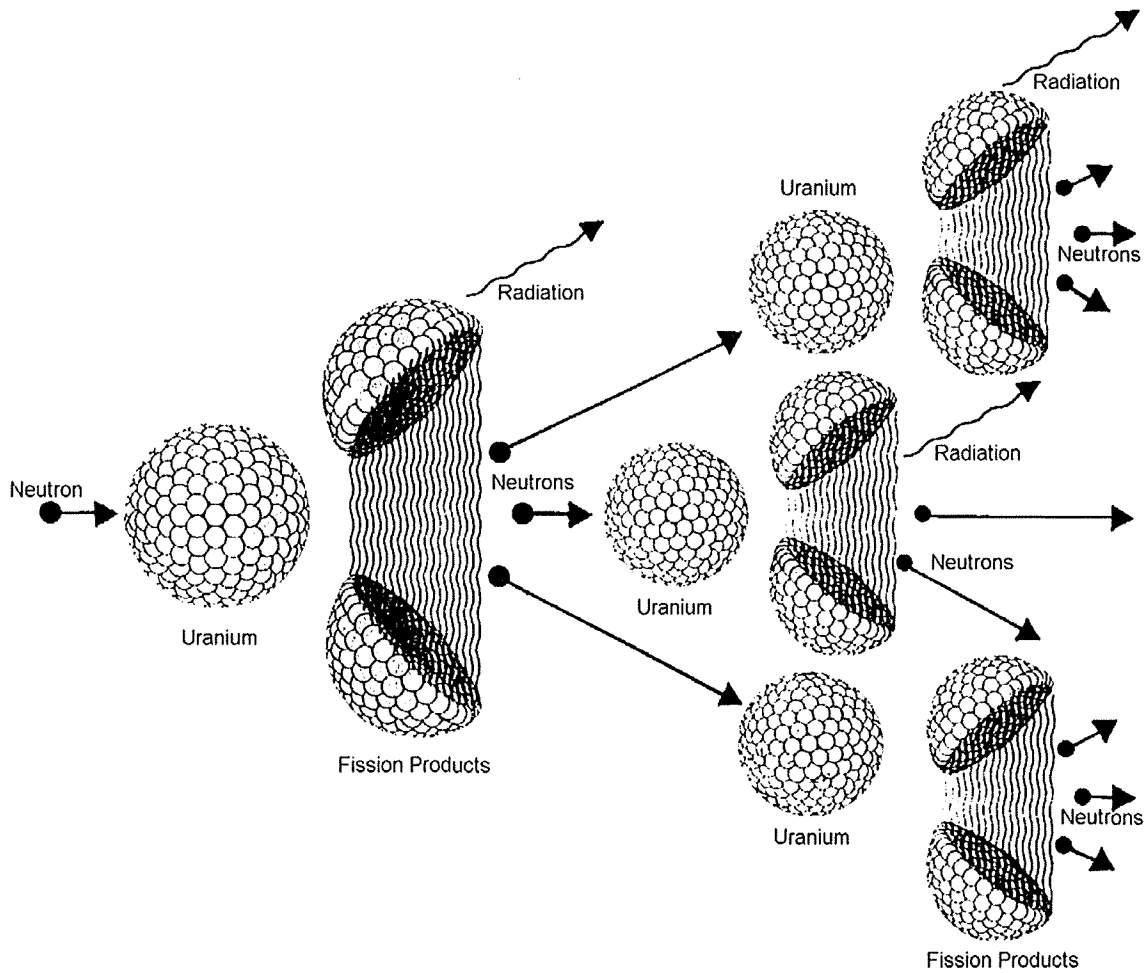


Figure 1.4-2: Radioactive Fission Product Formation

Radioactive activation products (Figure 1.4-3), on the other hand, originate from two sources. The first is by neutron bombardment of hydrogen, oxygen, and other gas (helium, argon, nitrogen) molecules in the reactor cooling water. The second is a result of the fact that the internals of any piping system or component are subject to minute yet constant corrosion from the reactor cooling water. These minute metallic particles (for example: nickel, iron, cobalt, or magnesium) are transported through the reactor core into the fuel region, where neutrons may react with the nuclei of these particles, producing radioactive products. Therefore, activation products are nothing more than ordinary naturally- occurring atoms that are made unstable or radioactive by neutron bombardment. These activation products circulate along with the reactor coolant water and will deposit on the internal surfaces of pipes and equipment. The radioactive activation products on the pipes and equipment emit radiation. Examples of some activation products are manganese-54 (Mn-54), iron-59 (Fe-59), cobalt-60 (Co-60), and zinc-65 (Zn-65).

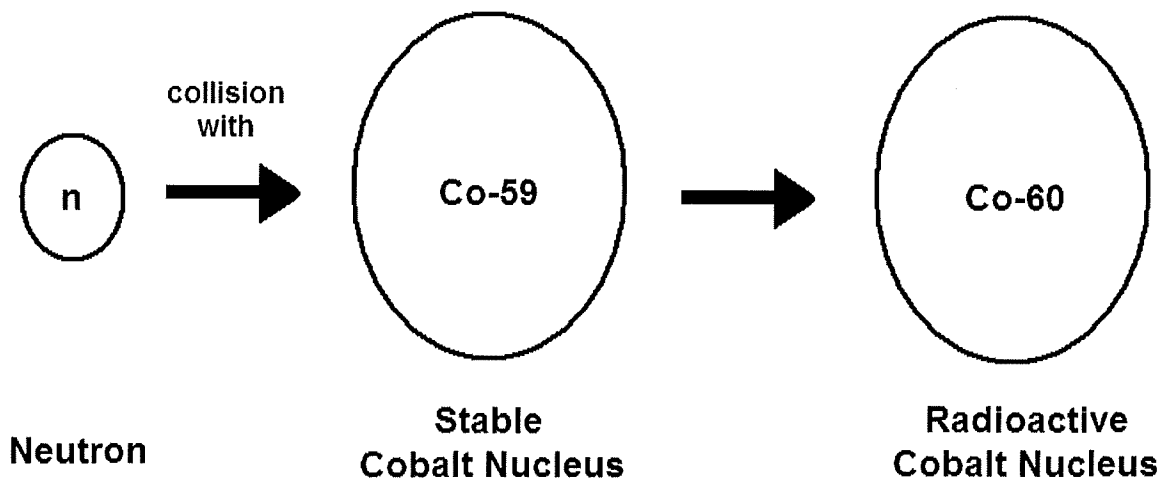


Figure 1.4-3: Radioactive Activation Product Formation

At MPS there are five independent protective barriers that confine these radioactive materials. These five barriers are:

- fuel pellets;
- fuel cladding;
- reactor vessel and associated piping and equipment;
- primary containment; and
- secondary containment (enclosure building).

The ceramic uranium fuel pellets provide the first barrier. Most of the radioactive fission products are either physically trapped or chemically bound between the uranium atoms, where they will remain. However, a few fission products that are volatile or gaseous may diffuse through the fuel pellets into small gaps between the pellets and the fuel cladding.

The second barrier, the fuel cladding, consists of zirconium alloy tubes that confine the fuel pellets. The small gaps between the fuel and the cladding contain the noble gases and volatile iodines that are types of radioactive fission products. This radioactivity can diffuse to a small extent through the fuel cladding into the reactor coolant water. Radioactivity can also escape into coolant water through cladding defects and failures.

The third barrier consists of the reactor pressure vessel, steel piping and equipment that confine the reactor cooling water. The reactor pressure vessel, which holds the reactor fuel, is typically a steel tank 40 feet high by 14 feet in diameter with walls about five to nine inches thick. These vessels and associated piping provide containment for radioactivity in the primary coolant and the reactor core. However, during the course of operations and maintenance, small amounts of radioactive fission and activation products can escape through valve leaks or upon breaching of the primary coolant system for maintenance.

The fourth barrier is the primary containment. It is a cylindrical enclosure with approximately five-foot thick steel reinforced concrete walls lined by steel on the inside. During operation the containment is closed but small amounts of radioactivity may be released from primary containment by venting during operation to maintain proper containment pressure. During maintenance and refueling outages containment is open and small amounts of radioactivity is released during this time when the fuel has been moved out of the reactor cavity in containment.

The fifth barrier is the secondary containment or enclosure building. The enclosure building is a steel building that surrounds the primary containment. This barrier is an additional safety feature at Millstone's reactor units to contain radioactivity that may escape from the primary containment. This enclosure building is equipped with a filtered ventilation system that is used when needed to reduce the radioactivity that escapes from the primary containment.

The five barriers confine most of the radioactive fission and activation products. However, small amounts of radioactivity do escape via mechanical failures and maintenance on valves, piping, and equipment associated with the reactor cooling water system. The small amounts of radioactive liquids and gases that do escape the various containment systems are further controlled by the liquid purification and ventilation filtration systems. The control of radioactive effluents at MPS will be discussed in more detail in the next section.

1.5 Radioactive Effluent Control

The small amounts of radioactive liquids and gases that might escape the first two barriers are processed in the liquid and gaseous waste treatment systems, then monitored for radioactivity, and released only if the radioactivity levels are below the federal release limits.

Radioactivity released from the liquid effluent system to the environment is limited, controlled, and monitored by a variety of systems and procedures which include:

- reactor water cleanup system;
- liquid radioactive waste treatment system;
- sampling and analysis of the liquid radioactive waste tanks; and
- liquid waste effluent discharge radioactivity monitor.

The purpose of the reactor water cleanup system is to continuously purify the reactor cooling water by removing radioactive atoms and non-radioactive impurities that may become activated by neutron bombardment. A slip stream of the reactor coolant water is diverted from the primary coolant system and is directed through ion exchange resins where radioactive elements, dissolved and suspended in the water, are removed through chemical processes. The net effect is a substantial reduction of the radioactive material that is present in the primary coolant water and consequently the amount of radioactive material that might escape from the system.

Reactor cooling water that might escape the primary cooling system and other radioactive water sources are collected in floor and equipment drains. These drains direct this radioactive liquid waste to large holdup tanks. The liquid waste collected in the tanks is purified again using the liquid radioactive waste treatment system, which consists of a filter and ion exchange resins.

Processing of liquid radioactive waste results in large reductions of radioactivity in liquids discharged into Niantic Bay. Wastes processed through liquid radioactive waste treatment can be purified and, in some cases, re-used in station systems.

Prior to release, the radioactivity in any liquid radioactive waste tank is sampled and analyzed to determine if the level of radioactivity is below the release limits and to quantify the total amount of radioactive liquid effluent that will be released. If the levels are below the federal release limits, the tank is drained to the liquid effluent discharge header.

This liquid waste effluent discharge line is provided with a shielded radioactivity monitor. This detector is connected to a radiation level meter and a recorder in the Control Room. The radiation alarm is set so that the detector will alarm before radioactivity levels exceed the release limits. In addition to the alarm function, the radiation monitor also signals both discharge valves to close thus terminating the discharge release to the environment. Gamma spectroscopy analysis, tritium analysis and the effluent radiation monitors prevent any liquid radioactivity from being released in excess of release rate and total activity limits. An audible alarm notifies the Control Room operator that this has occurred.

Some liquid waste sources, which have a low potential for containing radioactivity, and/or may contain very low levels of contamination, may be discharged directly to the environment. One such source of liquid is the turbine building sump. However, periodic representative samples are collected for analysis of radioactivity content to track the amounts of radioactivity being discharged.

The preceding discussion illustrates that many controls exist to reduce the radioactive liquid effluents released to the environment be as far below the release limits as is reasonably achievable.

Radioactive releases from the radioactive gaseous effluent system to the environment are limited, controlled, and monitored by a variety of systems and procedures which include:

- containment building ventilation system;
- containment building radioactivity monitors;
- sampling and analysis of containment building vent and purge effluents;
- process gas treatment system;
- auxiliary building (and engineered safeguards and fuel building for MPS3) ventilation system;
- MPS stack and units' vent effluent radioactivity monitors;
- sampling and analysis of MPS stack and units' vent effluents;
- process radiation monitors; and
- steam jet air ejector (SJAE) monitor.

The primary sources of gaseous radioactive waste are degassing of the primary coolant, gaseous liquid drains, and gaseous vents. Additional sources of gaseous waste activity include ventilation air released from the auxiliary building and purging and venting of the containment building. The radiation level meter and recorders for the effluent radioactivity monitors are located in the Control Room. The station process computer aids in tracking the monitor readings. To supplement the information continuously provided by the detector, air samples are taken periodically from the units' containments, MPS stack and units' vents. These samples are analyzed to quantify the total amount of radioactive gases, radioactive iodine, radioactive particulate, and tritium released in gaseous effluents.

Gases from the primary coolant are held up in waste gas decay tanks for decay at MPS2. Gaseous waste at MPS3 is purified through a process gas system, consisting of high-efficiency particulate air filters and charcoal absorber beds. Gases from periodic venting of the MPS2 containment are released through a similar process system (Enclosure Building Filtration System) while gases from the MPS3 containment vacuum pumps are released without treatment. If necessary, MPS3 containment air can be filtered by an internal particulate and charcoal treatment system. Containment purges (purge is the forced ventilation process while containment vents are pressure releases) for MPS2 are filtered by high-efficiency particulate filters while at MPS3 these are not normally filtered. If necessary, particulate and charcoal filters can be used for these purges.

Normally, for MPS2, the air released from the unit vent is from the ventilation of the auxiliary (which includes the fuel pool), service and enclosure buildings. For MPS2, fuel pool and enclosure building ventilation can be redirected to the MPS Site Stack. Normally, for MPS3, the air released from the unit vent is from the ventilation of the auxiliary, fuel, service, waste disposal, and enclosure buildings. For MPS3, enclosure building ventilation can be redirected to the MPS Site Stack.

Therefore, for both liquid and gaseous releases, radioactive effluent control systems exist to collect and purify the radioactive effluents in order to reduce releases to the environment to as low as is reasonably achievable. The effluents are always monitored, sampled, and analyzed to make sure that radioactivity levels are below the release limits. If the release limits are being approached, isolation valves are closed to stop the release and ensure that federal regulatory limits are always met.

1.6 Radiological Impact on Humans

The final step in the effluent control process is the determination of the radiological dose impact to humans and comparison with the federal dose limits to the public. As mentioned previously, the purpose of continuous radiation monitoring and periodic sampling and analysis is to measure the quantities of radioactivity being released to determine compliance with the radioactivity release limits. This is the first stage for assessing releases to the environment.

The second stage is calculation of the dose impact to the general public from MPS's radioactive effluents. The purpose of this calculation is to periodically assess the dose to the general public resulting from radioactive effluents to ensure that the dose is being maintained as far below the federal dose limit as is reasonably achievable. This is the second stage for assessing releases to the environment.

The types and quantities of radioactive liquid and gaseous effluents released from MPS during each year are reported to the NRC annually in the Radiological Effluent Release Report (RERR). Similar to this report, the RERR is submitted annually to the NRC. The liquid and gaseous effluents were well below the federal release limits and were a small percentage of the MPS REMODCM effluent control limits.

The measurements of the physical and chemical nature of the effluents are used to determine how the radionuclides will interact with the environment and how they can result in radiation exposure to humans. The environmental interaction mechanisms depend upon factors such as the hydrological (water) and meteorological (atmospheric) characteristics in the area. Information on the water flow, wind speed, wind direction, and atmospheric mixing characteristics are used to estimate how radioactivity will distribute and disperse in the ocean and the atmosphere.

The most important type of information that is used to evaluate the radiological impact on humans is data on the use of the environment. Information on fish and shellfish consumption, boating usage, beach usage, locations of cows and goats, locations of residences, locations of gardens, and other usage information are utilized to estimate the amount of radiation and radioactivity received by the general public.

The radiation exposure pathway to humans is the path radioactivity takes from its release point at MPS to its effect on man. The movement of radioactivity through the environment and its transport to humans is portrayed in Figure 1.6-1.

EXAMPLES OF Millstone's RADIATION EXPOSURE PATHWAYS

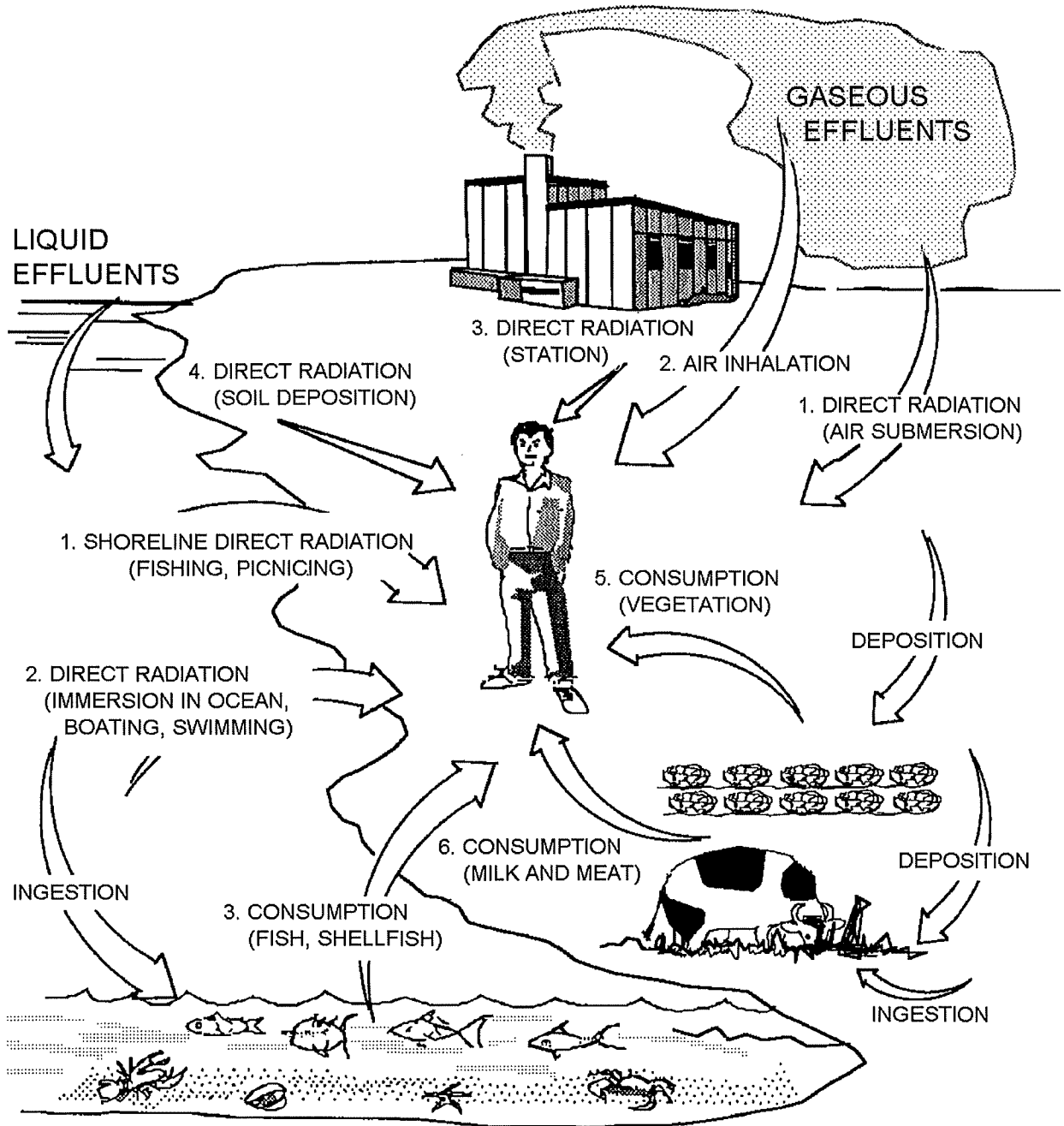


Figure 1.6-1: Radiation Exposure Pathways

There are four pathways in which liquid effluents affect humans:

- external radiation from liquid effluents that deposits and accumulates on the shoreline;
- external radiation during boating from radioactivity in ocean water;
- external radiation from immersion in ocean water containing radioactivity; and
- internal radiation from consumption of fish and shellfish containing radioactivity absorbed from the liquid effluents.

There are six major pathways in which gaseous effluents affect humans:

- external radiation from immersion in an airborne plume of radioactivity;
- external radiation from shine from an overhead, airborne plume of radioactivity;
- internal radiation from inhalation of airborne radioactivity;
- external radiation from deposition of radioactive effluents on the ground;
- internal radiation from consumption of vegetation containing radioactivity deposited on the vegetation from airborne deposition and absorbed from the soil due to ground deposition of radioactive effluents; and
- internal radiation from consumption of milk and meat containing radioactivity deposited on forage that is eaten by cattle and other livestock.

Drinking water is not a pathway of exposure for radioactivity released in liquid or gaseous effluents from Millstone. All liquid effluents are released to either Long Island Sound or Niantic Bay. Both are saltwater bodies which are not used as sources of drinking water. The closest reservoir is Lake Konomoc, 6.5 miles from Millstone. Radioactivity deposited in the reservoir from MPS gaseous effluents would not yield a significant dose to the public compared to doses from the six major pathways listed.

Ambient (direct) radiation emitted from sources of radioactivity at MPS comes from low- level radioactive waste being processed and stored at the site prior to shipping and disposal. Also, the operation of the Independent Spent Fuel Storage Installation (ISFSI) which began in 2005 results in a small amount of direct radiation at the site boundary.

The radiological dose impact on humans is based both on effluent analyses and modeling and on direct measurements of radiation and radioactivity in the environment. However, the operation of MPS results in releases of only small amounts of radioactivity, and, as a result of dilution in the atmosphere and ocean, even the most sensitive radioactivity measurement and analysis techniques cannot usually detect these tiny amounts of radioactivity above that which is naturally present in the environment. Therefore, radiation doses are calculated using radioactive effluent release data and computerized dose calculations that are based on conservative NRC-recommended models that tend to result in over-estimates of the resulting dose. These computerized dose calculations are performed by DENC personnel. These computer codes use the guidelines and methodology set forth by the NRC in Regulatory Guide 1.109 (Reference 7). The dose calculations are specified in the Millstone's REMODCM (Reference 8), which has been reviewed by the NRC.

It should be emphasized that the conservative assumptions made in the computer code calculations; the maximum hypothetical dose to an individual is considerably higher than the dose that would actually be received by a real individual.

After dose calculations are performed, the results are compared to the dose limits for the public as specified in NRC's technical specifications for MPS (References 9-11).

The technical specifications limits for the dose to a member of the general public from radioactive material in liquid effluents released to unrestricted areas are:

- less than or equal to 3 mrem per year to the total body; and,
- less than or equal to 10 mrem per year to any organ.

The technical specifications limits for dose due to release of radioactivity in gaseous effluents is restricted to:

- less than or equal to 10 mrad per year for gamma radiation from noble gases;
- less than or equal to 20 mrad per year for beta radiation from noble gases; and
- less than or equal to 15 mrem per year to any organ from iodine-131, iodine-133, tritium, and all particulate radionuclides with half-lives greater than 8 days.

The Technical Specifications limits for total dose from all three MPS units due to release of radioactivity in gaseous and liquid effluents and direct radiation is restricted to:

- less than or equal to 25 mrem per year to the total body;
- less than or equal to 75 mrem per year to the thyroid; and
- less than or equal to 25 mrem per year to any other organ.

2. PROGRAM DESCRIPTION

2.1 Sampling Schedule and Locations

The sample locations, types, and frequency of analysis are given in Tables 2.1-1 and 2.1-2 and are shown in Figures 2.1-1 and 2.1-2. The program as described in Table 2.1-1 lists the required samples collected as specified in the REMODCM, as well as any other extra samples collected under the program.

Table 2.1-1 Environmental Monitoring Program Sampling Types and Locations

No.- Type*	Location Name	Distance, Direction From Release Point**	Sample Media
1-I	Onsite – NAP Parking Lot N	0.6 Mi, NNW	TLD, Air Particulate, Iodine, Vegetation
2-I	Onsite - Weather Shack	0.3 Mi, S	TLD, Air Particulate, Iodine
3-I	Onsite - Bird Sanctuary	0.3 Mi, NE	TLD, Air Particulate, Iodine, Soil
4-I	Onsite - Albacore Drive	1.0 Mi, N	TLD, Air Particulate, Iodine, Soil
5-I	Onsite – Quarry East	0.1 Mi, SSE	TLD
6-I	Onsite - Quarry Discharge	0.3 Mi, SSE	TLD
7-I	Onsite – Env. Lab Dock	0.3 Mi, SE	TLD
8-I	Onsite – Env. Lab	0.3 Mi, SE	TLD
9-I	Onsite - Bay Point Beach	0.4 Mi, W	TLD
10-I	Goshen Fire Dept.	1.2 Mi, E	TLD, Air Particulate, Iodine, Vegetation
11-I	Great Neck Country Club	1.6 Mi, ENE	TLD, Air Particulate, Iodine
13-C	Mystic, CT	11.5 Mi, ENE	TLD
14-C	Ledyard, CT	12.0 Mi, NE	TLD, Soil
15-C	Norwich, CT	14.0 Mi, N	TLD, Air Particulate, Iodine
16-C	Old Lyme, CT – Halls Rd.	8.8 Mi, W	TLD
17-I	Site Boundary	0.5 Mi, NE	Vegetation
25-I	Fruits & Vegetables	< 10 Miles	Vegetation
25-X	Fruits & Vegetables	< 10 Miles	Vegetation
26-C	Fruits & Vegetables	> 10 Miles	Vegetation
27-I	East Lyme Police Dept.	1.7 Mi, WNW	TLD, Air Particulate, Iodine
28-I	Two Tree Island ¹	0.8 Mi, SSE	Fish ¹
29-I	West Jordan Cove ¹	≤ 0.5 Mi, ENE to ESE	Clams, Fucus, Fish ¹
31-I	Niantic Shoals	1.8 Mi, NW	Bottom Sediment, Clams
32-I	Vicinity of Discharge ^{1,2}		Bottom Sediment, Fish ¹ , Seawater, Aquatic Flora
33-I	Seaside Point	1.8 Mi, ESE	Bottom Sediment
34-I	Thames River Yacht Club	4.0 Mi, ENE	Bottom Sediment
35-I	Niantic Bay	≤0.5 Mi, SSW to W	Lobster, Fish ¹ , Aquatic Flora
36-C	Black Point	2.7 Mi, WSW	Aquatic Flora
37-C	Giant's Neck	3.5 Mi, WSW	Bottom Sediment, Seawater
41-I	Waterford - Myrock Avenue	3.2 Mi, ENE	TLD
42-I	East Lyme - Billow Road	2.4 Mi, WSW	TLD
43-I	East Lyme–Old Black Point	2.6 Mi, SW	TLD
44-I	Onsite – Schoolhouse	0.1 Mi, NNE	TLD
45-I	Onsite - Access Road #1	0.5 Mi, NNW	TLD
46-I	Old Lyme - Hillcrest Ave.	4.6 Mi, WSW	TLD
47-I	East Lyme - W. Main St.	4.5 Mi, W	TLD
48-I	East Lyme – Corey & Roxbury	3.4 Mi, WNW	TLD
49-I	East Lyme - Society Rd.	3.6 Mi, NW	TLD
50-I	East Lyme – Manwaring Rd & Terrace Ave	2.1 Mi, W	TLD
51-I	East Lyme - Smith Ave.	1.5 Mi, NW	TLD
52-I	Waterford - River Rd.	1.1 Mi, NNW	TLD
53-I	Waterford - Gardiners Wood Rd	1.4 Mi, NNE	TLD
55-I	Waterford - Magonk Point	1.8 Mi, ESE	TLD
56-I	New London – Ocean & Mott Ave.	3.7 Mi, E	TLD

1. Fish is required to be sampled from one of three other locations (#28, #29 or #32).

2. Vicinity of discharge includes the Quarry and shoreline area from Fox Island to western point of Red Barn recreation Area and Offshore out to 500 feet.

Footnotes:

*I = Indicator; C = Control, X - Extra - sample not required by the REMODCM

** = The release points are the Millstone Stack for terrestrial location and the end of the quarry for aquatic location.

Table 2.1-1 Environmental Monitoring Program Sampling Types and Locations
(Continues)

No.- Type¹	Location Name	Distance, Direction From Release Point²	Sample Media
57-I	New London - Ocean Ave.	3.6 Mi, ENE	TLD
59-I	Waterford -Miner Ave.	3.4 Mi, NNE	TLD
60-I	Waterford-Parkway South&Cross	4.0 Mi, N	TLD
61-I	Waterford–Oil Mill&Boston Post	4.3 Mi, NNW	TLD
62-I	East Lyme - Columbus Ave.	1.9 Mi, WNW	TLD
63-I	Waterford - Gardiners Wood & Jordon Cove	0.8 Mi, NE	TLD
64-I	Waterford - Shore Rd.	1.1 Mi, ENE	TLD
65-I	Waterford – Boston Post Rd.	3.2 Mi, NE	TLD
66-X	NAP Parking Lot - Fit Center	0.4 Mi, NW	TLD
71-I	1-MW-XFMR-03	Onsite	Well Water
72-I	MW-GPI-1	Onsite	Well Water
73-X	Site Switchyard Fence	0.3 Mi, N	TLD
74-X	Ball Field Foul Pole	0.6 Mi, N	TLD
75-X	Waterford – Windward Way & Shotgun	0.5 Mi, NE	TLD
76-X	ISFSI-1	Up-gradient of ISFSI	Well Water
77-X	ISFSI-2	Down-gradient of ISFSI	Well Water
78-X	ISFSI-3	Down-gradient of ISFSI	Well Water
79-I	M3-MW-1	Onsite	Well Water
81-I	S2-MW-1	Onsite	Well Water
82-I	MW-6B	Onsite	Well Water
83-I	S3-MW-2	Onsite	Well Water
89-C	Aquatic background	>4 miles of discharge	Lobster

1. Fish is required to be sampled from one of three other locations (#28, #29 or #32).

2. Vicinity of discharge includes the Quarry and shoreline area from Fox Island to western point of Red Barn recreation Area and Offshore out to 500 feet.

Footnotes:

*I = Indicator; C = Control, X - Extra - sample not required by the REMODCM

** = The release points are the Millstone Stack for terrestrial location and the end of the quarry for aquatic location.

Table 2.1-2 Required Sampling Frequency & Type of Analysis

	Exposure Pathway and/or Sample	No. of Locations	Sampling & Collection Frequency	Type and Frequency of Analysis
1.	Gamma Dose - Environmental TLD	39 ¹	Quarterly	Gamma Dose - Quarterly
2.	Airborne Particulate	8	Continuous sampler - filter change every two weeks	Gross Beta – Every two weeks Gamma Spectrum - Quarterly on composite (by location), and on individual sample if gross beta is greater than 10 times the mean of the weekly control station's gross beta results
3.	Airborne Iodine	8	Continuous sampler – canister change every two weeks	I-131 – Every two weeks
4.	Vegetation	5	One sample near middle and one near end of growing season	Gamma Isotopic on each sample
5.	Milk - Refer to Table 2.1-2.1 below			
6.	Sea Water	2	Continuous sampler with a monthly collection at indicator location. Quarterly at control location - Composite of 6 weekly grab samples.	Gamma Isotopic and Tritium on each sample.
7.	Well Water	6	Semiannual	Gamma Isotopic and Tritium on each sample
8.	Bottom Sediment	5	Semiannual	Gamma Isotopic on each sample
9.	Soil	3	Annually	Gamma Isotopic on each sample
10.	Fin Fish (edible portion)	2	Semiannual	Gamma Isotopic on each sample
11.	Aquatic flora (fucus)	4	Quarterly	Gamma isotopic on each sample
13.	Clams (edible portion)	2	Semiannual	Gamma Isotopic on each sample
14.	Lobster (edible portion)	2	Semiannual	Gamma Isotopic on each sample

Footnotes

1. Two or more TLDs or TLD with two or more elements per location.

- Oysters were previously Sample#12, REMODCM revision 27.

Table 2.1-2.1 Milk Sampling Requirements

Number of Locations and Sampling Criteria	Sampling & Collection Frequency	Type and Frequency of Analysis
If milk location(s) are available, obtain samples from milking animals from up to three locations within 3 miles (5 km) distance having the highest dose potential. If there are none, then one sample from milking animals in each of three areas between 3 to 5 miles (5 to 8 km) distant where doses are calculated to greater than 1 mrem per year. One sample from milking animals at a control location 9 to 18 miles (15 to 30 km) distant and in the least prevalent wind direction.	Semimonthly when animals are on pasture; Monthly, for non--pasture producers.	Gamma Isotopic and I-131 analysis on each sample
If milk location(s) are not available, obtain samples of three different kinds of broad leaf vegetation grown nearest each of two different offsite locations of highest predicted annual average ground level D/Q	Monthly, if available, or at harvest ^(a)	Gamma Isotopic and I-131 analysis on each sample

Footnotes

(a) Harvest consists of one sample near the middle and one sample near the end of the growing season.

Figure 2.1-1. "Inner TLD, Air, Grass, Soil, and Aquatic Locations"

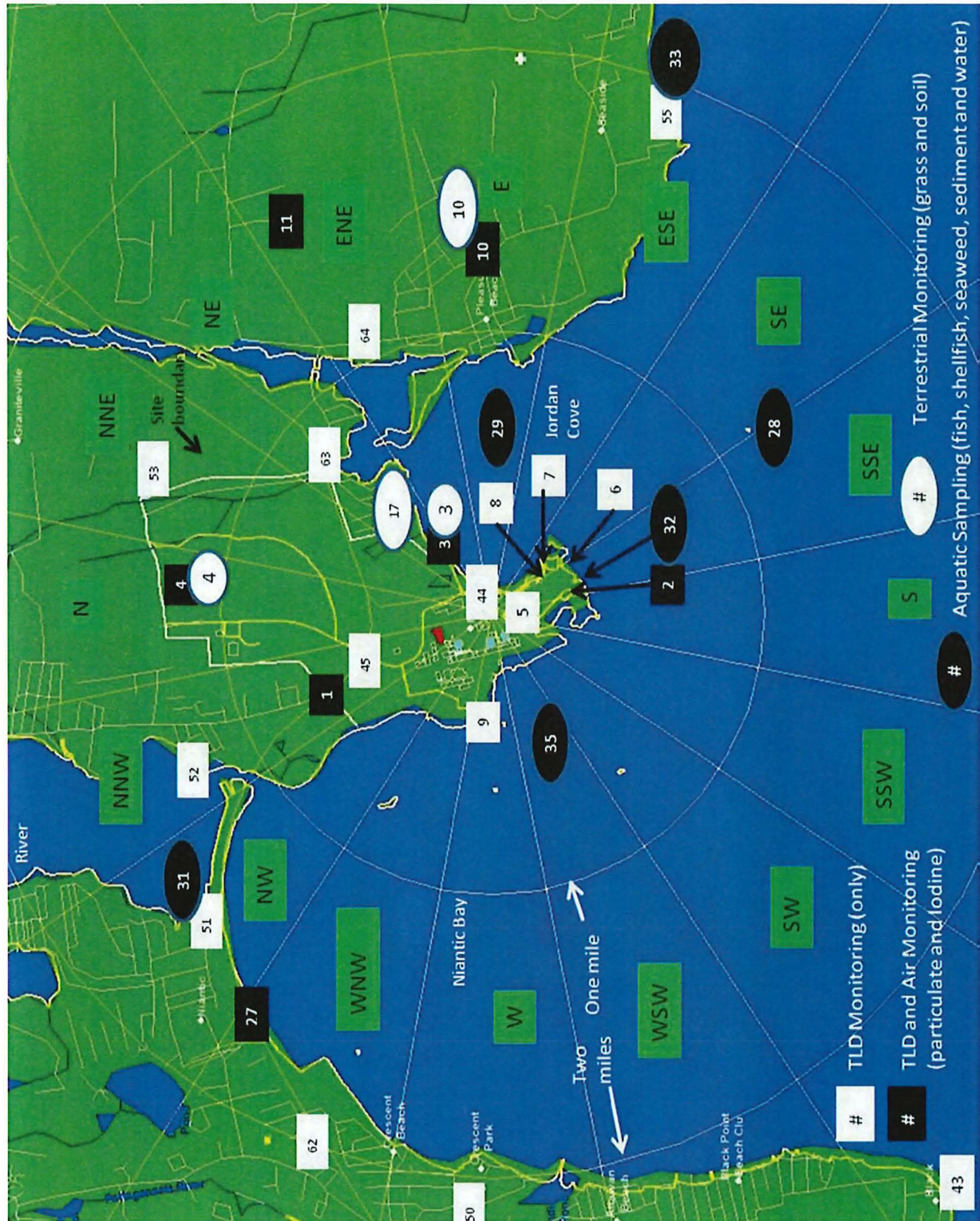


Figure 2.1-2. "Outer TLD and Aquatic Locations"



2.2 Samples Collected During Report Period

The following table summarizes the number of samples of each type collected and analyzed during 2025:

Table 2.2-1 REMP Samples Collected in 2025

Sample Type	Number of Technical Specification Required Samples	Number of Technical Specification Required Samples Analyzed	Number of Extra Samples Analyzed
Gamma Exposure (Environmental TLD)	156	156	16
Air Particulates	208	208	0
Air Iodine	208	208	0
Soil	3	3	0
Milk	12	0	0
Well Water	12	12	24
Vegetation	10	10	1
Sea Water	16	16	0
Bottom Sediment	10	10	0
Aquatic Flora	16	16	0
Fish	4	4	0
Oysters	0	0	4
Clams	4	4	0
Lobster	4	4	0
Total All Types	651	639	45

2.3 Required Samples Not Collected During the Report Period

During 2025 all required samples were obtained except for Milk.

The 2025 Land Use Census did not locate any milk farms producers within ten miles of Millstone Power Station. As a substitute for milk samples, strontium analysis of air samples and gamma analysis of broad leaf vegetation were performed. This fulfills the requirements for Milk sampling as listed in Table 2.1-2.1 of this report, "Milk Sampling Requirements".

3. RADIOCHEMICAL RESULTS

3.1 Summary Table

In accordance with the REMODCM, Section I.F.1, a summary table of the radiochemical results has been prepared and is presented on the following pages. The mean and range recorded are based only upon detectable measurements.

A more detailed analysis of the data is given in Section 4.0 where a discussion of the variations in the data explains many aspects that are not evident in the Summary Table because of the basic limitation of data summaries. The data summaries include the extra ("X") samples collected throughout the year. These samples are taken to enhance the monitoring program or replace samples from required locations when they are not available.

Furthermore, in accordance with the REMODCM, Section I.E.3, an inter-laboratory comparison was performed by Teledyne Brown Engineering Environmental Services (TBE-ES) as part of their quality assurance program for environmental monitoring in order to demonstrate that the results are reasonably valid (Appendix B). Quality Control of radioanalyses involves TBE-ES internal process control program and independent third-party programs administered by Eckert & Ziegler (E&Z) Analytics Inc, Environmental Resource Associates (ERA), and Department of Energy's (DOE).

The Teledyne inter-laboratory comparison report concluded that 154 out of 164 quality assurance analyses performed met the specified acceptance criteria. Seven analyses did not meet the specified acceptance criteria and were addressed through the TBE Corrective Action Program, listed in Appendix B. A review of the Teledyne report was performed and none of the seven analyses failures were found to have impacted any of Millstone samples results.

**MILLSTONE POWER STATION
 Dockets 50-245, 50-336 & 50-423 2025**

Medium or Pathway Sampled (Units)	Analysis Type	Total Number	LLD*	Indicator Locations	Location with Highest Mean			Control Locations	
				Number Mean (Range)	Location Number	Distance Direction	Number Mean (Range)	Number Mean (Range)	
Direct Radiation TLD (uR/hr)	Gamma Dose	172	NA	156	9	0.4 Mi. W	4/4	16	
				7.8 (4.5-12.0)			11.1 (10.8-12.0)	7.8 (5.7-9.5)	
Air Iodine (pCi/m ³)	I-131	208	0.07	182 <LLD	NA	NA	<LLD	26 <LLD	
Air Particulate (pCi/m ³)	GR-B	208	0.01	182 0.0128 (0.0057-0.0216)	11	1.6 Mi. ENE	26 0.0132 (0.0057-0.0201)	26 0.0132 (0.0058-0.0202)	
				SR-89			32	0.1	28 <LLD
	SR-90	32	0.01	28 <LLD	NA	NA	<LLD	4 <LLD	
	GAMMA	BE-7	32	NA	28 0.0703 (0.0495-0.0877)	15	14.0 Mi. N	4 0.0798 (0.0473-0.1136)	4 0.0798 (0.0473-0.1136)
					Other Gammas			Note 2	<LLD
Soil (pCi/g dry)	GAMMA K-40	3	NA	2 11.805 (10.510-13.100)	14	12.0 Mi. NE	1 14.440 (14.440)	1 14.440 (14.440)	
				CS-137			0.18	2 0.248 (0.237-0.259)	4
	AC-228	NA	1/2 0.918 (0.918)	14	12.0 Mi. NE	1 1.186 (1.186)	1 1.186 (1.186)		
	Other Gammas	Note 3	<LLD	NA	NA	<LLD	<LLD		
	Cow Milk (pCi/l)	SR-89	10						
SR-90		2							
GAMMA K-40		NA		Milk was not available for collection in 2025, as a substitute, Strontium Analysis of Air Particulate filters was performed					
Other Gammas		Note 4							
Goat Milk (pCi/l)	SR-89	10							
	SR-90	2							
	GAMMA K-40	NA		Milk was not available for collection in 2025, as a substitute, Strontium Analysis of Air Particulate filters was performed					
	Other Gammas	Note 4							

MILLSTONE POWER STATION
Dockets 50-245, 50-336 & 50-423 2025

Medium or Pathway Sampled (Units)	Analysis Type	Total Number	LLD*	Indicator Locations	Location with Highest Mean			Control Locations
				Number Mean (Range)	Location Number	Distance Direction	Number Mean (Range)	Number Mean (Range)
Goat Milk (pCi/l)	SR-89		10					
	SR-90		2					
	GAMMA K-40		NA		Milk was not available for collection in 2025, as a substitute, Strontium Analysis of Air Particulate filters was performed			
	Other Gammas		Note 4					
Well Water (pCi/l)	H-3	36	2000	36 <LLD	NA	NA	<LLD	NA
	GAMMA K-40	36	NA	<LLD	NA	NA	<LLD	NA
	Other Gammas		Note 5	<LLD	NA	NA	<LLD	NA
Fruits & Vegetables (pCi/g wet)	GAMMA K-40	11	NA	6 2.075 (1.629-3.151)	25	Within 10 Miles	4 2.298 (1.714-3.151)	5 1.173 (0.575-1.585)
	BE-7		NA	1/6 0.083 (0.083)	25	Within 10 Miles	1/4 0.083 (0.083)	<LLD
	Other Gammas		Note 6	<LLD	NA	NA	<LLD	<LLD
Broad Leaf Vegetation (pCi/g wet)	GAMMA BE-7	8	NA	6 0.851 (0.588-0.980)	1	0.6 Mi. NNW	2 0.960 (0.944-0.975)	2 0.876 (0.876-0.877)
	K-40		NA	6 3.291 (2.624-4.173)	1	0.6 Mi. NNW	2 3.571 (2.968-4.173)	2 3.261 (2.969-3.552)
	Other Gammas		Note 6	<LLD	NA	NA	<LLD	<LLD

MILLSTONE POWER STATION
Dockets 50-245, 50-336 & 50-423 2025

Medium or Pathway Sampled (Units)	Analysis Type	Total Number	LLD*	Indicator Locations	Location with Highest Mean			Control Locations
				Number Mean (Range)	Location Number	Distance Direction	Number Mean (Range)	Number Mean (Range)
Sea Water (pCi/l)	H-3	16	3000	10/12 657 (428-1230)	32	< 0.1 Mi	10/12 657 (428-1230)	4 <LLD
	GAMMA K-40	16	NA	11/12 275 (227-361)	32	< 0.1 Mi	11/12 275 (227-361)	4 233 (221-250)
	Other Gammas		Note 5	<LLD	NA	NA	<LLD	<LLD
Bottom Sediment (pCi/g dry)	GAMMA K-40	10	NA	8 14.35 (10.06-17.17)	32	< 0.1 Mi	2 16.43 (16.05-16.81)	2 13.91 (13.44-14.38)
	Ac-228		NA	1/8 2.206 (2.206)	31	1.8 Mi. NW	1/2 2.206 (2.206)	2 <LLD
	Other Gammas		Note 3	<LLD	NA	NA	<LLD	<LLD
Aquatic Flora (pCi/g wet)	GAMMA BE-7	16	NA	12 <LLD	NA	NA	NA	4 <LLD
	K-40		NA	12 6.783 (4.908-8.998)	35	0.3 Mi. WNW	4 7.338 (6.023-8.070)	4 5.760 (4.331-7.977)
	I-131		0.06	12 <LLD	NA	NA	<LLD	4 <LLD
	Other Gammas		Note 6	<LLD	NA	NA	<LLD	<LLD

MILLSTONE POWER STATION
Dockets 50-245, 50-336 & 50-423 2025

Medium or Pathway Sampled (Units)	Analysis Type	Total Number	LLD*	Indicator Locations	Location with Highest Mean			Control Locations
				Number Mean (Range)	Location Number	Distance Direction	Number Mean (Range)	Number Mean (Range)
Fish - Other (pCi/g wet)	GAMMA K-40	5	NA	5 3,908 (2.745-4.699)	28	0.8 Mi. SSE	1 4,239 (4.239)	NA
	Other Gammas		Note 8	<LLD	NA	NA	<LLD	NA
Oysters (pCi/g wet)	GAMMA K-40	4	NA	2 2,426 (2.267-2.584)	31	1.8 Mi. NW	2 2,426 (2.267-2.584)	2 2.163 (2.029-2.297)
	Other Gammas		Note 8	<LLD	NA	NA	<LLD	<LLD
Clams (pCi/g wet)	GAMMA K-40	4	NA	4 2,249 (2.068-2.476)	31	1.8 Mi. NW	2 2,329 (2.181-2.476)	NA
	Other Gammas		Note 8	<LLD	NA	NA	<LLD	NA
Lobster (pCi/g wet)	GAMMA K-40	4	NA	2 3,175 (2.953-3.397)	35	0.3 Mi. WNW	2 3,175 (2.953-3.397)	2 2.806 (2.521-3.090)
	Other Gammas		Note 8	<LLD	NA	NA	<LLD	<LLD

NOTES FOR SUMMARY TABLE

- 1 - (*) The required LLD is the smallest concentration of radioactivity that will be detected with 95% confidence that the activity is real. See detailed discussion below.
- 2 - LLDs for air particulate gamma are 0.05 pCi/M3 for Cs-134 and 0.06 pCi/M3 for Cs-137.
- 3 - LLD for soil and sediment gamma is 0.15 pCi/g for Cs-134.
- 4 - LLDs for milk gamma are 1 pCi/l for I-131, 15 pCi/l for Cs-134, 18 pCi/l for Cs-137, 70 pCi/l for Ba-140 and 25 pCi/l for La-140.
- 5 - LLDs for water gamma are 15 pCi/l for Mn-54, Co-58, Co-60, Nb-95, I-131, Cs-134 and La-140; 30 pCi/l for Fe-59, Zn-65, and Zr-95; 18 pCi/l for Cs-137 and 60 pCi/l for Ba-140.
- 6 - LLDs for fruits & vegetables, broadleaf vegetation and aquatic flora for gamma are 0.06 pCi/M3 for I-131, 0.06 pCi/M3 for Cs-134 and 0.08 pCi/M3 for Cs-137.
- 7 - LLDs for other gamma are 0.06 pCi/g for Cs-134 and I-131.
- 8 - LLDs for fish and shellfish for gammas are 0.13 pCi/g for Mn-54, Co-58, Co-60, and Cs-134; 0.26 pCi/g for Fe-59 and Zn-65; 0.15 pCi/g for Cs-137; and 0.93 pCi/g for I-131.

Discussion of LLD

The LLD at a confidence level of 95% is the smallest concentration of radioactive material in a sample that will be detected with a 5% probability of falsely concluding that a blank observation represents a "real" signal.

For a particular measurement system (which may include radiochemical separation):

$$LLD = \frac{4.66 S_b}{E * V * 2.22 * Y * \exp(-\lambda \Delta t)}$$

- LLD is the lower limit of detection as defined above (as pCi per unit mass or volume)
- S_b is the standard deviation of the background counting rate or of the counting rate of a blank sample as appropriate (as counts per minute)
- E is the counting efficiency (as counts per transformation)
- V is the sample size (in units of mass or volume)
- 2.22 is the number of transformations per minute per picoCurie
- Y is the fractional radiochemical yield (when applicable)
- λ is the radioactive decay constant for the particular radionuclide
- Δt is the elapsed time between sample collection (or end of the sample collection period) and time of counting

The LLD is defined as "a priori" (before the fact) limit representing the capability of a measurement system and not an "a posteriori" (after the fact) limit for a particular measurement.

Analyses were performed in such a manner that the stated LLDs were achieved under routine conditions. Occasionally background fluctuations, unavoidably small sample sizes, the presence of interfering nuclides, or other uncontrollable circumstances may have rendered these priori LLDs unachievable. In such cases, the contributing factors are identified and described in this report. As shown in the equation above, for composite samples taken over a period of time, the LLD is decayed to the end of the sample period.

3.2 Data Tables

The data reported in this section are results of analyses on all samples. All gamma exposure rates (Table 1), and air beta results (Table 2) are positive because of natural radioactivity. For all other results positive results are shown as bolded type. Results are considered positive when the measured value exceeds 1.5 times the listed 2σ error (i.e., the measured value exceeds 3σ). The reported error is two times the standard deviation (2σ) of the net activity. Unless otherwise noted, the overall error is estimated to be 2 to 5 times that listed. Because of counting statistics, negative values, zeros, and numbers below the Minimum Detectable Level (MDL) are statistically valid pieces of data. For the purposes of this report, in order to indicate any background biases, all the valid data are presented. This practice was recommended by Health and Safety Laboratory (HASL) ("Reporting of Analytical Results from HASL," letter by Leo B. Higginbotham), NUREG 0475 and NUREG/CR-4007 (Sept. 1984).

Data are given according to sample type as indicated below.

1. Gamma Exposure Rate
2. Air Particulates, Gross Beta Radioactivity
3. Air Particulates, Airborne I-131
4. Air Particulates, Gamma Spectra
5. Soil
6. Milk
7. Well Water
8. Fruits & Vegetables
9. Broad Leaf Vegetation
10. Seawater
11. Bottom Sediment
12. Aquatic Flora (Fucus)
13. Fin Fish
14. Oysters
15. Clams
16. Lobster

**TABLE 1
QUARTERLY
GAMMA EXPOSURE RATE
(uR/hr)***

PERIOD	LOCATIONS											
	1	2	3	4	5	6	7	8	9	10	11	
	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)
1Q	7.8 0.5	10.6 0.5	7.6 0.5	7.9 0.3	9.1 0.3	8.5 0.5	5.1 0.3	10.9 0.4	10.8 0.4	10.6 0.5	7.0 0.3	
2Q	7.8 0.3	11.1 0.3	7.0 0.3	8.0 0.3	9.2 0.3	8.5 0.2	4.6 0.2	10.8 0.3	10.9 0.5	10.4 0.3	6.9 0.2	
3Q	8.1 0.2	11.7 0.4	7.8 0.5	8.2 0.2	9.9 0.3	8.9 0.4	4.5 0.2	11.5 0.3	12.0 0.4	10.0 0.5	7.3 0.2	
4Q	7.7 0.4	10.7 0.4	7.4 0.3	7.6 0.3	9.1 0.5	8.3 0.3	4.6 0.3	10.9 0.4	10.8 0.6	8.7 0.3	6.9 0.3	

PERIOD	13C	14C	15C	16C	27	41	42	43	44	45	46
	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)
1Q	8.6 0.3	8.8 0.4	7.1 0.2	5.7 0.2	7.5 0.3	6.9 0.2	7.0 0.3	6.8 0.2	7.8 0.6	6.9 0.3	8.0 0.2
2Q	8.7 0.2	9.5 0.3	7.5 0.2	5.8 0.2	7.6 0.2	6.6 0.4	7.4 0.3	7.3 0.4	7.8 0.3	7.0 0.3	7.8 0.3
3Q	8.8 0.3	9.2 0.3	7.7 0.2	6.5 0.3	7.5 0.2	6.9 0.2	7.6 0.2	7.2 0.3	7.9 0.2	7.2 0.2	8.6 0.2
4Q	8.6 0.3	9.2 0.3	7.4 0.4	5.8 0.2	7.5 0.3	6.6 0.4	7.2 0.3	6.9 0.3	7.3 0.3	7.0 0.3	7.8 0.3

PERIOD	47	48	49	50	51	52	53	55	56	57	59
	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)
1Q	7.1 0.3	8.5 0.3	7.6 0.2	7.3 0.4	6.1 0.2	6.8 0.5	6.9 0.3	7.2 0.3	10.3 0.4	6.7 0.2	7.4 0.4
2Q	7.7 0.2	8.9 0.5	7.7 0.3	7.4 0.4	6.8 0.2	7.0 0.2	6.9 0.2	7.0 0.2	10.1 0.3	6.9 0.2	7.4 0.4
3Q	8.3 0.3	9.4 0.5	7.9 0.2	7.5 0.2	7.4 0.2	7.1 0.2	7.6 0.2	7.6 0.2	10.6 0.4	7.5 0.2	8.2 0.5
4Q	7.7 0.3	8.4 0.3	7.5 0.3	7.2 0.3	6.6 0.3	6.8 0.4	7.2 0.3	7.1 0.3	10.4 0.3	6.8 0.3	7.4 0.4

PERIOD	60	61	62	63	64	65	66	73	74	75
	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)
1Q	6.3 0.2	6.2 0.4	9.0 0.4	8.6 0.4	7.3 0.3	7.7 0.4	7.2 0.3	7.3 0.4	7.0 0.5	6.3 0.4
2Q	6.0 0.4	6.0 0.2	8.9 0.3	8.5 0.3	7.0 0.3	7.8 0.2	7.1 0.4	7.3 0.3	7.7 0.3	6.3 0.2
3Q	6.5 0.2	6.7 0.2	9.8 0.3	8.6 0.2	7.4 0.3	7.9 0.2	7.2 0.2	7.4 0.3	7.6 0.2	6.6 0.2
4Q	6.0 0.3	5.9 0.2	8.8 0.5	8.3 0.3	7.6 0.4	7.4 0.3	7.2 0.2	7.1 0.3	7.1 0.2	6.4 0.2

* READINGS ARE THE AVERAGE OF MULTI CaSO₄(Tm) PHOSPHOR ELEMENTS WITHIN ONE PANASONIC TLD BADGE

ERRORS ARE TWO SIGMA AND INCLUDE COUNTING, TRANSIT, READER AND FADE UNCERTAINTIES

C= Control location, Background location

TABLE 2
AIR PARTICULATES
GROSS BETA RADIOACTIVITY
(pCi/m³)

PERIOD ENDING	LOCATIONS															
	1		2		3		4		10		11		27		15C	
	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)
01/14/25	0.011	0.002	0.010	0.002	0.011	0.002	0.011	0.002	0.010	0.002	0.011	0.002	0.012	0.002	0.011	0.002
01/28/25	0.020	0.002	0.020	0.002	0.018	0.002	0.017	0.002	0.022	0.002	0.018	0.002	0.019	0.002	0.017	0.002
02/11/25	0.012	0.002	0.012	0.002	0.011	0.002	0.010	0.002	0.012	0.002	0.011	0.002	0.011	0.002	0.012	0.002
02/25/25	0.014	0.002	0.013	0.002	0.015	0.002	0.013	0.002	0.013	0.002	0.012	0.002	0.013	0.002	0.013	0.002
03/11/25	0.015	0.002	0.016	0.002	0.014	0.002	0.015	0.002	0.012	0.002	0.014	0.002	0.013	0.002	0.014	0.002
03/25/25	0.010	0.002	0.011	0.002	0.011	0.002	0.011	0.002	0.011	0.002	0.013	0.002	0.012	0.002	0.012	0.002
04/08/25	0.011	0.002	0.011	0.002	0.010	0.002	0.012	0.002	0.013	0.002	0.011	0.002	0.010	0.002	0.011	0.002
04/22/25	0.012	0.002	0.013	0.002	0.013	0.002	0.015	0.002	0.009	0.002	0.013	0.002	0.014	0.002	0.014	0.002
05/06/25	0.014	0.002	0.013	0.002	0.012	0.002	0.016	0.002	0.014	0.002	0.015	0.002	0.014	0.002	0.013	0.002
05/20/25	0.009	0.002	0.011	0.002	0.009	0.002	0.009	0.002	0.011	0.002	0.010	0.002	0.012	0.002	0.010	0.002
06/03/25	0.007	0.002	0.006	0.002	0.007	0.002	0.006	0.002	0.006	0.001	0.006	0.001	0.006	0.001	0.006	0.002
06/17/25	0.010	0.002	0.010	0.002	0.009	0.002	0.010	0.002	0.009	0.002	0.013	0.002	0.009	0.001	0.012	0.002
07/01/25	0.016	0.002	0.012	0.002	0.014	0.002	0.015	0.002	0.015	0.002	0.014	0.002	0.012	0.002	0.015	0.002
07/15/25	0.010	0.002	0.010	0.002	0.010	0.002	0.013	0.002	0.012	0.002	0.012	0.002	0.013	0.002	0.013	0.002
07/29/25	0.012	0.002	0.011	0.002	0.010	0.002	0.013	0.002	0.011	0.002	0.012	0.002	0.011	0.002	0.011	0.002
08/12/25	0.016	0.002	0.016	0.002	0.015	0.002	0.016	0.002	0.014	0.002	0.017	0.002	0.018	0.002	0.018	0.002
08/26/25	0.011	0.002	0.010	0.002	0.010	0.002	0.013	0.002	0.012	0.002	0.012	0.002	0.011	0.002	0.013	0.002
09/09/25	0.013	0.002	0.014	0.002	0.013	0.002	0.016	0.002	0.014	0.002	0.015	0.002	0.013	0.002	0.012	0.002
09/23/25	0.016	0.002	0.016	0.002	0.017	0.002	0.016	0.002	0.017	0.002	0.017	0.002	0.016	0.002	0.019	0.002
10/07/25	0.019	0.002	0.018	0.002	0.020	0.002	0.018	0.002	0.019	0.002	0.020	0.002	0.020	0.002	0.020	0.002
10/21/25	0.009	0.002	0.011	0.002	0.011	0.002	0.011	0.002	0.010	0.002	0.012	0.002	0.012	0.002	0.010	0.002
11/04/25	0.010	0.002	0.010	0.002	0.011	0.002	0.011	0.002	0.012	0.002	0.011	0.002	0.011	0.002	0.013	0.002
11/18/25	0.014	0.002	0.013	0.002	0.013	0.002	0.013	0.002	0.012	0.002	0.013	0.002	0.013	0.002	0.013	0.002
12/02/25	0.017	0.002	0.014	0.002	0.017	0.002	0.014	0.002	0.016	0.002	0.015	0.002	0.016	0.002	0.015	0.002
12/16/25	0.012	0.002	0.011	0.002	0.010	0.002	0.012	0.002	0.012	0.002	0.012	0.002	0.011	0.002	0.011	0.002
12/30/25	0.015	0.002	0.014	0.002	0.013	0.002	0.015	0.002	0.014	0.002	0.016	0.002	0.015	0.002	0.014	0.002

C= Control location, Background location

TABLE 3
AIRBORNE IODINE
(pCi/m³)

LOCATIONS

PERIOD ENDING	1		2		3		4		10		11		27		15C	
	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)
01/14/25	0.009	0.015	0.009	0.016	0.010	0.017	0.009	0.016	-0.014	0.011	-0.014	0.011	-0.015	0.012	-0.014	0.011
01/28/25	0.002	0.015	0.002	0.016	0.003	0.017	0.002	0.016	-0.008	0.020	-0.008	0.020	-0.009	0.021	-0.008	0.019
02/11/25	0.017	0.028	0.018	0.029	0.020	0.032	0.018	0.028	0.013	0.026	0.013	0.026	0.014	0.027	0.013	0.025
02/25/25	-0.003	0.017	-0.003	0.018	-0.004	0.019	-0.003	0.017	-0.004	0.022	-0.004	0.022	-0.004	0.023	-0.004	0.021
03/11/25	0.003	0.008	0.003	0.008	0.004	0.009	0.003	0.008	0.009	0.014	0.009	0.013	0.009	0.014	0.008	0.013
03/25/25	-0.006	0.016	-0.007	0.018	-0.007	0.019	-0.006	0.016	0.000	0.020	0.000	0.020	0.000	0.021	0.000	0.019
04/08/25	0.015	0.019	0.016	0.021	0.017	0.022	0.015	0.020	0.028	0.019	0.027	0.019	0.028	0.019	0.026	0.018
04/22/25	-0.011	0.016	-0.012	0.017	-0.013	0.018	-0.011	0.016	0.014	0.018	0.013	0.018	0.014	0.019	0.013	0.017
05/06/25	0.004	0.021	0.004	0.023	0.004	0.022	0.003	0.015	0.011	0.017	0.011	0.017	0.011	0.018	0.010	0.017
05/20/25	0.000	0.018	0.000	0.020	0.000	0.017	0.000	0.018	-0.003	0.027	-0.003	0.027	-0.003	0.028	-0.003	0.026
06/03/25	-0.002	0.025	-0.003	0.029	-0.002	0.024	-0.003	0.026	-0.023	0.021	-0.012	0.011	-0.024	0.023	-0.027	0.026
06/17/25	0.003	0.013	0.003	0.015	0.003	0.015	0.003	0.013	0.003	0.015	0.003	0.015	0.001	0.006	0.003	0.017
07/01/25	-0.008	0.019	-0.008	0.019	-0.008	0.019	-0.008	0.020	0.014	0.022	0.013	0.021	0.014	0.022	0.014	0.022
07/15/25	0.000	0.008	0.001	0.017	0.001	0.017	0.001	0.017	0.009	0.020	0.009	0.019	0.009	0.020	0.009	0.019
07/29/25	0.003	0.008	0.005	0.016	0.005	0.016	0.005	0.016	0.010	0.017	0.009	0.016	0.010	0.016	0.009	0.016
08/12/25	0.013	0.019	0.014	0.020	0.013	0.019	0.013	0.019	0.002	0.017	0.002	0.017	0.002	0.017	0.002	0.018
08/26/25	0.008	0.016	0.009	0.017	0.008	0.017	0.008	0.017	-0.003	0.012	-0.003	0.012	-0.003	0.012	-0.004	0.013
09/09/25	-0.001	0.012	-0.001	0.013	-0.001	0.012	-0.001	0.013	0.001	0.017	0.001	0.017	0.001	0.017	0.001	0.017
09/23/25	-0.008	0.015	-0.009	0.015	-0.008	0.015	-0.009	0.016	-0.021	0.016	-0.021	0.016	-0.021	0.016	-0.021	0.016
10/07/25	-0.003	0.014	-0.002	0.007	-0.003	0.014	-0.003	0.015	-0.003	0.015	-0.001	0.018	-0.001	0.018	0.000	0.010
10/21/25	0.004	0.025	0.005	0.027	0.004	0.025	0.005	0.026	-0.006	0.026	-0.006	0.025	-0.006	0.025	-0.006	0.027
11/04/25	-0.004	0.027	-0.004	0.027	-0.005	0.028	-0.004	0.027	-0.010	0.025	-0.009	0.024	-0.009	0.024	-0.010	0.026
11/18/25	-0.005	0.023	-0.005	0.021	-0.005	0.025	-0.005	0.021	-0.006	0.016	-0.005	0.015	-0.003	0.012	-0.003	0.013
12/02/25	0.000	0.013	0.000	0.012	0.000	0.014	0.000	0.012	-0.003	0.013	-0.002	0.006	-0.003	0.012	-0.003	0.013
12/16/25	-0.010	0.023	-0.009	0.021	-0.010	0.024	-0.010	0.022	0.012	0.035	0.011	0.033	0.012	0.034	0.013	0.037
12/30/25	-0.013	0.027	-0.012	0.025	-0.013	0.028	-0.012	0.026	-0.021	0.019	-0.020	0.018	-0.020	0.019	-0.022	0.020

C= Control location, Background location

TABLE 4
AIR PARTICULATES
(pCi/m³)

GAMMA SPECTRA - QTR 1 (12/31/24 - 03/25/25)

LOCATION	Sr-89		Sr-90		Be-7		Mn-54		Co-58		Co-60		Zn-65	
	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)
1	-0.0019	0.0144	0.0020	0.0027	0.0523	0.0269	0.0003	0.0014	-0.0015	0.0025	-0.0004	0.0017	-0.0005	0.0032
2	0.0004	0.0171	0.0006	0.0023	0.0678	0.0226	-0.0004	0.0017	-0.0003	0.0023	0.0006	0.0015	-0.0002	0.0035
3	0.0190	0.0180	0.0002	0.0019	0.0705	0.0241	0.0007	0.0017	-0.0008	0.0025	0.0004	0.0014	-0.0015	0.0034
4	-0.0111	0.0127	0.0007	0.0017	0.0658	0.0225	0.0003	0.0012	-0.0008	0.0019	0.0005	0.0009	-0.0004	0.0026
10	0.0010	0.0150	-0.0004	0.0020	0.0502	0.0252	0.0000	0.0013	-0.0009	0.0020	-0.0001	0.0011	0.0018	0.0031
11	0.0074	0.0194	0.0013	0.0025	0.0846	0.0224	0.0003	0.0010	0.0004	0.0015	-0.0003	0.0012	0.0016	0.0029
27	-0.0024	0.0157	0.0000	0.0024	0.0806	0.0198	-0.0002	0.0012	0.0001	0.0017	-0.0002	0.0010	0.0013	0.0025
15C	-0.0017	0.0128	-0.0004	0.0017	0.0649	0.0170	0.0003	0.0007	-0.0003	0.0008	-0.0001	0.0005	0.0002	0.0013

LOCATION	Nb-95		Zr-95		Ru-103		Ru-106		Cs-134		Cs-137		Ba-140	
	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)
1	0.0018	0.0026	-0.0017	0.0045	0.0031	0.0036	0.0033	0.0112	-0.0016	0.0015	0.0011	0.0013	0.0666	0.1381
2	-0.0013	0.0025	0.0013	0.0043	-0.0019	0.0031	-0.0135	0.0146	-0.0002	0.0016	-0.0001	0.0013	-0.0670	0.1246
3	0.0004	0.0028	-0.0003	0.0041	-0.0079	0.0045	-0.0056	0.0120	-0.0008	0.0017	0.0009	0.0015	0.0883	0.1510
4	0.0005	0.0016	0.0005	0.0028	-0.0005	0.0026	-0.0054	0.0095	-0.0003	0.0013	-0.0011	0.0008	0.0078	0.1005
10	0.0015	0.0022	-0.0011	0.0040	-0.0014	0.0030	0.0017	0.0115	0.0009	0.0013	0.0005	0.0010	0.0324	0.0969
11	0.0010	0.0019	0.0007	0.0032	-0.0021	0.0022	-0.0034	0.0080	-0.0007	0.0011	0.0007	0.0008	0.0814	0.0875
27	0.0012	0.0017	0.0004	0.0031	-0.0011	0.0025	0.0005	0.0092	0.0001	0.0012	0.0002	0.0009	0.0324	0.0920
15C	-0.0001	0.0012	0.0000	0.0016	-0.0003	0.0013	0.0023	0.0047	0.0002	0.0005	-0.0002	0.0005	0.0115	0.0527

LOCATION	Ce-141		Ce-144	
	(+/-)	(+/-)	(+/-)	(+/-)
1	-0.0007	0.0048	-0.0033	0.0058
2	0.0009	0.0045	-0.0004	0.0055
3	-0.0001	0.0062	-0.0013	0.0079
4	-0.0027	0.0036	-0.0002	0.0041
10	-0.0018	0.0036	-0.0022	0.0047
11	-0.0003	0.0032	-0.0015	0.0039
27	0.0008	0.0037	-0.0035	0.0043
15C	-0.0005	0.0020	0.0003	0.0022

C= Control location, Background location
Results in bold type are positive.

**TABLE 4
AIR PARTICULATES
(pCi/m³)**

GAMMA SPECTRA - QTR 2 (03/25/25 - 07/01/25)

LOCATION	Sr-89		Sr-90		Be-7		Mn-54		Co-58		Co-60		Zn-65	
	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)
1	-0.0028	0.0107	0.0008	0.0018	0.0877	0.0262	-0.0011	0.0014	-0.0005	0.0024	-0.0007	0.0011	0.0003	0.0036
2	0.0003	0.0123	0.0002	0.0019	0.0689	0.0267	-0.0006	0.0015	0.0002	0.0024	-0.0001	0.0016	0.0009	0.0039
3	-0.0045	0.0089	-0.0009	0.0015	0.0641	0.0225	-0.0006	0.0008	0.0003	0.0018	0.0001	0.0009	0.0014	0.0028
4	0.0091	0.0109	-0.0008	0.0013	0.0804	0.0247	-0.0014	0.0014	-0.0005	0.0024	0.0008	0.0012	0.0012	0.0030
10	-0.0085	0.0114	0.0026	0.0044	0.0850	0.0237	0.0000	0.0013	0.0006	0.0021	0.0003	0.0013	-0.0009	0.0026
11	-0.0004	0.0131	0.0008	0.0020	0.0724	0.0210	-0.0003	0.0008	-0.0005	0.0015	0.0002	0.0011	0.0026	0.0024
27	-0.0006	0.0180	0.0007	0.0030	0.0747	0.0241	0.0003	0.0008	-0.0008	0.0019	-0.0017	0.0011	-0.0003	0.0025
15C	-0.0009	0.0122	0.0001	0.0019	0.0933	0.0206	-0.0001	0.0010	-0.0005	0.0013	-0.0005	0.0009	0.0019	0.0023

LOCATION	Nb-95		Zr-95		Ru-103		Ru-106		Cs-134		Cs-137		Ba-140	
	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)
1	0.0000	0.0025	-0.0014	0.0042	0.0004	0.0030	-0.0176	0.0119	0.0015	0.0014	0.0001	0.0010	-0.1086	0.1628
2	-0.0009	0.0029	-0.0013	0.0049	-0.0030	0.0042	0.0005	0.0128	0.0008	0.0015	0.0004	0.0014	0.0856	0.1813
3	-0.0006	0.0013	0.0012	0.0028	0.0016	0.0021	-0.0006	0.0086	-0.0005	0.0009	0.0000	0.0007	0.0589	0.1165
4	0.0003	0.0021	-0.0008	0.0036	-0.0047	0.0037	-0.0011	0.0112	-0.0008	0.0014	0.0005	0.0011	0.1850	0.1717
10	0.0016	0.0018	-0.0001	0.0031	0.0022	0.0032	-0.0054	0.0081	-0.0006	0.0011	-0.0001	0.0010	0.0440	0.1412
11	0.0003	0.0016	0.0007	0.0027	-0.0021	0.0024	-0.0001	0.0027	-0.0003	0.0009	-0.0002	0.0008	-0.0326	0.1138
27	-0.0004	0.0016	-0.0010	0.0032	0.0014	0.0021	0.0060	0.0084	0.0002	0.0010	0.0005	0.0007	-0.0381	0.0868
15C	-0.0010	0.0018	0.0002	0.0032	-0.0023	0.0027	-0.0014	0.0083	-0.0006	0.0009	0.0001	0.0008	0.0155	0.1163

LOCATION	Ce-141		Ce-144	
	(+/-)	(+/-)	(+/-)	(+/-)
1	-0.0033	0.0047	0.0019	0.0052
2	-0.0054	0.0056	-0.0035	0.0058
3	-0.0026	0.0029	-0.0016	0.0035
4	0.0000	0.0056	-0.0016	0.0061
10	0.0023	0.0037	-0.0009	0.0040
11	-0.0005	0.0031	0.0024	0.0027
27	0.0006	0.0030	-0.0016	0.0031
15C	-0.0041	0.0040	-0.0005	0.0046

C= Control location, Background location
Results in bold type are positive.

TABLE 4
AIR PARTICULATES
(pCi/m³)

GAMMA SPECTRA - QTR 3 (07/01/25 - 10/07/25)

LOCATION	Sr-89		Sr-90		Be-7		Mn-54		Co-58		Co-60		Zn-65	
	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)
1	-0.0029	0.0091	0.0006	0.0016	0.0682	0.0223	-0.0011	0.0011	0.0018	0.0016	-0.0002	0.0012	0.0031	0.0028
2	-0.0028	0.0081	0.0007	0.0022	0.0810	0.0273	0.0004	0.0013	0.0003	0.0016	0.0006	0.0013	0.0022	0.0027
3	0.0071	0.0111	0.0028	0.0025	0.0637	0.0298	-0.0004	0.0011	-0.0005	0.0017	0.0004	0.0010	0.0031	0.0029
4	-0.0035	0.0081	0.0014	0.0020	0.0829	0.0229	-0.0008	0.0008	0.0008	0.0014	0.0005	0.0010	0.0005	0.0026
10	-0.0101	0.0112	-0.0011	0.0021	0.0775	0.0244	0.0004	0.0011	0.0004	0.0017	-0.0001	0.0013	0.0018	0.0028
11	0.0005	0.0105	0.0000	0.0022	0.0798	0.0282	-0.0002	0.0013	0.0011	0.0019	-0.0005	0.0012	0.0020	0.0031
27	0.0031	0.0099	0.0002	0.0017	0.0856	0.0241	0.0005	0.0010	-0.0003	0.0016	0.0002	0.0011	0.0001	0.0027
15C	0.0010	0.0094	0.0008	0.0020	0.1136	0.0271	0.0007	0.0015	-0.0019	0.0019	0.0001	0.0012	-0.0008	0.0028

LOCATION	Nb-95		Zr-95		Ru-103		Ru-106		Cs-134		Cs-137		Ba-140	
	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)
1	0.0008	0.0015	-0.0022	0.0030	0.0005	0.0025	-0.0069	0.0099	0.0000	0.0010	0.0012	0.0009	-0.0739	0.0904
2	0.0010	0.0021	-0.0002	0.0040	0.0000	0.0032	0.0089	0.0102	0.0005	0.0014	0.0005	0.0012	0.0160	0.1208
3	0.0001	0.0016	-0.0034	0.0032	-0.0027	0.0031	-0.0175	0.0117	-0.0001	0.0012	-0.0002	0.0011	-0.0154	0.0941
4	0.0016	0.0018	-0.0033	0.0029	0.0003	0.0021	-0.0031	0.0083	0.0006	0.0010	0.0004	0.0009	0.0446	0.0680
10	0.0008	0.0016	-0.0007	0.0033	0.0009	0.0025	-0.0105	0.0098	-0.0003	0.0011	0.0000	0.0009	0.0042	0.0840
11	0.0015	0.0023	-0.0031	0.0041	0.0012	0.0032	0.0015	0.0103	-0.0005	0.0012	0.0003	0.0013	0.0552	0.1166
27	0.0007	0.0014	0.0006	0.0021	0.0022	0.0023	0.0015	0.0084	0.0000	0.0011	-0.0003	0.0008	0.0613	0.0725
15C	-0.0007	0.0024	0.0006	0.0039	-0.0038	0.0034	-0.0154	0.0116	0.0010	0.0014	0.0004	0.0010	0.1124	0.1065

LOCATION	Ce-141		Ce-144	
	(+/-)	(+/-)	(+/-)	(+/-)
1	0.0020	0.0034	0.0026	0.0042
2	0.0021	0.0039	-0.0008	0.0050
3	0.0012	0.0047	0.0012	0.0063
4	0.0008	0.0030	-0.0026	0.0043
10	-0.0021	0.0031	-0.0041	0.0039
11	0.0025	0.0042	-0.0048	0.0047
27	-0.0014	0.0030	-0.0068	0.0041
15C	-0.0008	0.0045	-0.0055	0.0059

C= Control location, Background location
Results in bold type are positive.

TABLE 4
AIR PARTICULATES
(pCi/m³)

GAMMA SPECTRA - QTR 4 (10/07/25 - 12/30/25)

LOCATION	Sr-89		Sr-90		Be-7		Mn-54		Co-58		Co-60		Zn-65	
	(+/ -)		(+/ -)		(+/ -)		(+/ -)		(+/ -)		(+/ -)		(+/ -)	
1	0.0086	0.0115	0.0021	0.0020	0.0615	0.0231	-0.0005	0.0014	0.0007	0.0016	0.0004	0.0012	0.0005	0.0028
2	0.0133	0.0104	0.0013	0.0018	0.0629	0.0303	0.0005	0.0016	-0.0004	0.0024	-0.0006	0.0016	-0.0010	0.0031
3	0.0093	0.0115	0.0019	0.0023	0.0687	0.0222	-0.0010	0.0015	-0.0010	0.0022	0.0000	0.0014	0.0020	0.0041
4	0.0087	0.0096	0.0020	0.0019	0.0620	0.0212	-0.0002	0.0008	0.0004	0.0015	0.0007	0.0009	0.0023	0.0022
10	-0.0056	0.0091	0.0000	0.0018	0.0649	0.0272	-0.0001	0.0012	0.0002	0.0018	0.0007	0.0015	0.0037	0.0040
11	0.0004	0.0080	-0.0004	0.0016	0.0495	0.0227	-0.0001	0.0015	0.0009	0.0019	0.0002	0.0018	0.0043	0.0034
27	0.0007	0.0075	-0.0007	0.0015	0.0565	0.0172	0.0003	0.0009	-0.0004	0.0011	0.0002	0.0010	0.0013	0.0025
15C	-0.0039	0.0072	-0.0001	0.0015	0.0473	0.0293	0.0005	0.0014	-0.0025	0.0024	0.0007	0.0015	0.0034	0.0031
LOCATION	Nb-95		Zr-95		Ru-103		Ru-106		Cs-134		Cs-137		Ba-140	
	(+/ -)		(+/ -)		(+/ -)		(+/ -)		(+/ -)		(+/ -)		(+/ -)	
1	-0.0009	0.0018	-0.0011	0.0036	0.0006	0.0029	-0.0024	0.0117	0.0004	0.0013	0.0002	0.0010	-0.0019	0.0861
2	0.0011	0.0025	0.0012	0.0047	-0.0014	0.0031	0.0090	0.0122	-0.0005	0.0015	-0.0002	0.0011	0.0326	0.1210
3	-0.0021	0.0025	0.0026	0.0047	-0.0008	0.0031	-0.0014	0.0120	0.0006	0.0015	-0.0004	0.0013	0.0343	0.1187
4	0.0002	0.0011	-0.0010	0.0024	0.0006	0.0020	0.0026	0.0070	-0.0005	0.0008	0.0000	0.0008	0.0013	0.0672
10	0.0002	0.0023	-0.0009	0.0034	0.0000	0.0028	-0.0007	0.0108	-0.0018	0.0015	0.0007	0.0013	-0.0189	0.1088
11	0.0006	0.0023	-0.0031	0.0038	0.0034	0.0031	-0.0118	0.0116	0.0020	0.0014	-0.0001	0.0014	-0.0394	0.1089
27	-0.0001	0.0013	-0.0012	0.0019	-0.0007	0.0021	-0.0029	0.0071	-0.0003	0.0006	0.0002	0.0009	0.0273	0.0711
15C	0.0024	0.0023	-0.0032	0.0044	-0.0004	0.0036	0.0054	0.0132	-0.0007	0.0015	0.0001	0.0015	0.0243	0.1218
LOCATION	Ce-141		Ce-144											
	(+/ -)		(+/ -)											
1	0.0009	0.0041	-0.0021	0.0057										
2	0.0000	0.0048	-0.0051	0.0064										
3	0.0035	0.0046	-0.0040	0.0054										
4	-0.0029	0.0038	-0.0046	0.0048										
10	-0.0038	0.0043	-0.0046	0.0059										
11	0.0029	0.0051	-0.0009	0.0067										
27	0.0022	0.0037	-0.0022	0.0045										
15C	-0.0007	0.0043	0.0022	0.0055										

C= Control location, Background location
Results in bold type are positive.

**TABLE 5
SOIL
(pCi/g dry wt.)**

LOCATIONS

LOCATION	COLLECTION DATE	Be-7		K-40		Cr-51		Mn-54		Co-58		Fe-59	
		(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)
3	05/27/25	-0.224	0.469	13.100	1.979	-0.233	0.473	0.003	0.059	-0.030	0.052	-0.045	0.121
4	05/27/25	0.205	0.465	10.510	1.767	-0.108	0.455	0.013	0.049	-0.021	0.046	0.055	0.108
14C	05/27/25	0.036	0.453	14.440	2.280	-0.481	0.497	0.008	0.059	0.049	0.062	-0.054	0.158

LOCATION	COLLECTION DATE	Co-60		Zn-65		Nb-95		Zr-95		Ru-103		Ru-106	
		(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)
3	05/27/25	0.010	0.055	-0.132	0.132	-0.051	0.060	0.023	0.114	-0.004	0.053	-0.101	0.500
4	05/27/25	0.019	0.052	-0.058	0.152	-0.010	0.065	-0.082	0.097	0.027	0.055	0.165	0.501
14C	05/27/25	0.041	0.063	-0.177	0.178	0.079	0.060	0.023	0.107	-0.046	0.057	-0.182	0.472

LOCATION	COLLECTION DATE	Sb-125		Cs-134		Cs-137		Ce-141		Ce-144		Ac-228	
		(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)
3	05/27/25	0.029	0.136	0.014	0.062	0.237	0.097	-0.028	0.077	0.143	0.283	0.918	0.562
4	05/27/25	-0.115	0.162	0.013	0.060	0.259	0.119	-0.004	0.075	0.020	0.292	0.911	0.613
14C	05/27/25	-0.013	0.151	0.040	0.068	0.112	0.073	-0.009	0.082	0.010	0.298	1.186	0.316

C= Control location, Background location
Results in bold type are positive.

TABLE 6
MILK
(pCi/l)

<u>LOCATION</u>	<u>COLLECTION DATE</u>	<u>I-131</u> (+/-)	<u>Sr-89</u> (+/-)	<u>Sr-90</u> (+/-)	<u>K-40</u> (+/-)	<u>Cs-134</u> (+/-)	<u>Cs-137</u> (+/-)	<u>Ba-140</u> (+/-)	<u>La-140</u> (+/-)
22 Cow									

Milk was not available for collection in 2025.
 Strontium analysis of air samples was performed as a substitute (Table 4)

23
Goat

**TABLE 7
WELL WATER
(pCi/l)**

LOCATION	COLLECTION DATE	H-3		Be-7		K-40		Cr-51		Mn-54		Co-58		Fe-59		Co-60	
		(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)
71	03/22/25	-64	578	-16.3	34.3	-34.3	45.9	-36.7	41.3	1.40	3.63	2.28	3.94	1.23	8.47	-0.30	4.47
	05/21/25	506	753	5.85	28.0	17.9	43.3	-2.70	34.7	-2.93	3.00	0.19	3.21	5.10	6.65	1.29	3.33
	07/29/25	241	602	31.7	41.9	-3.46	56.9	-19.7	43.6	-4.57	4.90	0.43	3.85	6.67	8.74	1.49	4.65
	10/23/25	74	644	-48.6	33.1	-51.7	47.0	-29.8	33.4	0.00	0.00	-0.51	3.73	-0.63	7.41	0.54	2.58
72	03/22/25	172	596	0.00	25.4	21.9	42.0	17.1	27.2	0.29	2.35	-0.26	2.87	-6.27	5.59	0.71	3.03
	05/21/25	501	753	17.8	27.9	-12.1	50.4	23.5	32.5	-1.07	2.71	0.50	2.97	3.31	7.09	-2.55	3.64
	07/29/25	343	617	-28.1	33.7	29.0	67.0	5.33	36.0	-4.87	4.48	-0.65	4.46	-2.33	8.14	1.99	4.34
	10/28/25	-40	633	33.1	39.1	-49.8	70.7	-35.3	40.0	-5.56	3.98	1.70	4.62	-0.03	7.52	3.19	4.41
76	02/26/25	-532	558	18.7	36.9	-10.3	75.1	5.08	42.0	0.70	5.23	-0.79	4.53	13.2	12.5	-1.02	6.35
	05/13/25	238	738	4.00	13.5	18.9	31.8	18.9	16.0	0.76	1.44	-0.75	1.52	3.43	3.28	1.28	1.41
	08/07/25	-240	623	-9.77	31.1	22.4	66.7	5.80	34.0	2.74	4.23	2.22	3.35	3.30	7.57	0.61	4.31
	11/20/25	-364	631	-7.97	24.6	46.7	57.3	5.10	28.7	-0.84	2.68	0.69	3.23	-2.88	6.98	0.69	3.23
77	02/26/25	532	606	-1.51	38.2	-12.5	57.3	14.4	47.1	-5.60	5.10	1.78	4.83	-5.40	8.40	1.48	4.74
	05/13/25	-411	707	3.55	12.3	-37.8	21.6	-4.91	14.5	1.90	1.29	-0.33	1.45	2.11	3.27	1.47	1.44
	08/07/25	7	640	6.11	31.2	-43.8	47.9	-3.54	36.9	0.69	3.53	-2.50	3.87	5.65	7.40	2.68	4.12
	11/20/25	329	685	35.2	23.5	-16.5	39.9	-2.90	30.3	-1.62	2.27	-0.75	2.12	4.99	5.20	-1.08	2.23
78	02/26/25	-531	557	-12.9	39.1	-6.02	55.2	-26.6	39.2	-1.55	4.44	-1.42	4.19	4.58	9.24	1.00	4.32
	05/13/25	148	734	-3.27	11.2	-12.0	19.5	-4.72	13.7	-0.71	1.13	0.17	1.28	3.64	2.86	0.28	1.23
	08/07/25	92	654	-5.17	30.0	-13.4	40.5	-14.6	32.9	-1.95	3.34	-0.47	3.78	2.11	6.55	0.92	3.19
	11/20/25	143	666	-1.45	23.0	-34.5	47.0	8.23	27.3	-2.98	2.30	1.74	2.46	-0.83	5.11	1.22	2.26
79	03/22/25	247	600	21.9	42.4	22.5	66.9	-16.6	44.9	3.58	4.57	-0.91	4.42	5.68	9.28	1.10	4.31
	05/21/25	672	774	25.7	24.7	-35.3	44.0	-5.53	27.6	0.69	3.15	-1.04	2.78	1.62	7.18	-0.05	3.50
	07/29/25	707	626	33.0	38.2	106	76.1	17.6	48.1	2.83	4.11	-3.76	4.48	3.27	8.43	1.22	4.83
	10/28/25	427	656	-0.73	40.6	23.7	65.7	-41.2	45.9	0.07	4.87	-1.50	4.35	2.55	9.06	1.93	3.75
81	03/22/25	293	605	4.40	36.3	0.99	48.2	-14.9	41.9	2.95	4.06	-3.62	4.21	-4.48	8.62	-2.59	4.51
	05/21/25	-359	698	1.31	30.1	-1.77	49.2	17.7	37.7	0.60	3.01	0.14	3.03	-3.78	6.25	2.45	2.65
	07/29/25	795	650	-19.1	34.0	23.8	66.0	-7.50	39.2	-2.85	4.34	-0.32	4.64	5.17	8.84	3.00	4.20
	10/23/25	25	602	13.0	25.6	31.9	46.0	3.04	34.4	-2.39	3.04	-0.44	3.64	1.55	7.80	0.86	3.19
82	01/30/25	-533	559	-9.62	15.1	0.91	22.8	-12.4	22.2	-1.73	1.66	-0.31	1.79	1.91	3.82	0.83	1.70
	04/10/25	-77	605	-2.89	27.4	8.53	38.0	-4.00	34.2	-0.29	3.22	-4.11	3.08	5.24	5.84	0.96	3.29
	07/08/25	319	673	-54.5	34.3	-30.2	53.4	21.7	42.4	-3.66	3.67	-2.56	3.69	-4.18	7.06	0.35	3.75
	10/09/25	432	686	-7.30	16.3	21.7	43.7	1.43	18.6	0.08	1.87	-2.95	2.04	-0.10	3.80	3.46	2.03
83	03/22/25	254	602	-10.8	36.4	-10.2	54.5	3.97	38.1	0.91	4.12	-3.39	3.88	-1.99	8.30	-1.81	4.33
	04/10/25	921	670	19.3	27.6	-48.7	41.5	-15.3	31.1	-2.05	3.04	0.41	3.00	4.65	7.02	1.16	2.99
	08/05/25	118	635	-1.70	30.4	-10.0	46.1	-12.5	32.5	-0.78	2.83	-1.58	3.25	-2.32	7.94	-0.31	3.51
	10/23/25	114	645	7.12	27.9	43.1	43.2	-28.6	31.1	0.93	2.84	-0.80	2.96	-0.59	5.78	0.37	3.01

Results in bold type are positive.

**TABLE 7
WELL WATER
(pCi/l)**

LOCATION	COLLECTION DATE	Zn-65		Nb-95		Zr-95		Ru-103		Ru-106		Sb-125		I-131		Cs-134	
		(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)
71	03/22/25	-14.7	10.6	-0.70	4.21	-0.13	6.41	-0.82	4.75	7.25	36.6	-0.47	11.8	-9.63	9.05	-1.62	4.01
	05/21/25	-9.52	7.89	1.08	3.67	-2.36	6.07	-0.15	3.67	15.0	26.3	-3.81	8.67	-2.32	7.87	-0.11	3.31
	07/29/25	-32.6	14.9	0.99	5.90	3.31	7.73	-3.54	4.98	4.02	42.7	-1.16	13.6	-2.23	7.81	-2.28	4.76
	10/23/25	0.49	8.97	0.62	3.36	-4.46	6.14	0.61	3.58	-3.77	25.3	0.52	8.57	-11.5	9.18	0.67	3.27
72	03/22/25	-8.88	7.67	-1.47	2.90	-1.87	4.62	-0.70	2.87	14.4	22.5	2.04	7.64	-2.36	6.58	1.16	2.54
	05/21/25	-8.74	6.42	0.13	2.75	2.83	5.68	-2.89	3.39	-22.8	23.7	-2.36	7.68	-6.21	7.52	-0.80	3.08
	07/29/25	3.83	8.78	-0.05	4.33	-1.08	6.93	-1.65	4.67	36.1	37.3	-7.07	10.5	-8.16	7.60	6.46	5.60
	10/28/25	-16.8	10.6	-1.38	4.35	-4.10	6.76	-2.08	4.89	67.9	42.2	-1.01	12.7	-1.10	7.30	0.35	5.02
76	02/26/25	-21.0	15.2	-2.12	5.56	1.36	8.60	-2.22	5.37	10.9	45.2	-9.95	12.2	-9.21	7.47	2.07	5.37
	05/13/25	-4.14	3.25	1.53	1.62	-2.01	2.75	0.44	1.79	-4.79	12.7	2.73	3.96	3.13	5.56	1.47	1.53
	08/07/25	-9.22	9.10	-3.57	3.88	-0.47	6.86	-5.24	4.49	-34.9	36.2	-10.1	10.6	-6.60	9.22	0.12	4.13
	11/20/25	-2.18	7.04	2.35	3.00	4.48	5.79	-1.78	3.27	11.0	23.0	3.29	7.54	-1.85	8.39	0.41	2.56
77	02/26/25	0.73	13.3	3.19	5.92	-3.39	8.56	3.04	5.07	4.32	44.6	9.70	15.6	7.24	7.05	-3.62	5.21
	05/13/25	-5.84	3.32	-1.48	1.51	-0.53	2.47	-0.78	1.63	10.2	11.7	-0.11	3.47	-3.24	4.87	-0.23	1.40
	08/07/25	2.24	9.31	4.91	4.44	2.08	7.30	0.77	3.91	-21.6	33.5	-4.99	10.4	-2.70	9.00	-2.38	3.82
	11/20/25	-0.31	4.63	1.88	2.69	-0.05	4.33	1.82	2.97	-17.4	21.4	-3.09	7.06	6.90	8.17	0.85	2.56
78	02/26/25	-6.39	11.4	3.76	4.63	-1.26	7.80	0.76	4.83	-17.7	41.3	-0.90	12.4	-1.72	6.47	-1.66	4.66
	05/13/25	-2.91	2.72	-0.04	1.33	-0.98	2.23	-1.72	1.50	-6.18	10.9	-1.65	3.06	-1.86	4.26	-0.64	1.25
	08/07/25	-6.53	7.76	-0.40	3.20	-0.61	5.73	-1.23	3.93	-16.3	33.6	4.76	8.99	3.06	7.89	-1.27	3.51
	11/20/25	-4.17	5.43	0.56	2.77	-3.01	4.58	-0.03	2.79	-1.22	22.0	1.08	6.98	3.19	8.08	2.37	2.69
79	03/22/25	-9.23	10.6	-0.85	5.03	-5.52	9.11	2.40	4.70	-0.51	37.4	6.54	13.6	-7.41	9.66	0.95	4.72
	05/21/25	-5.81	6.67	-0.11	3.64	0.53	5.98	-2.29	3.22	-12.4	22.5	-1.16	7.06	-2.15	6.82	-4.14	3.58
	07/29/25	-6.09	9.46	2.44	4.01	-0.10	6.6	-3.56	4.91	-6.57	40.9	14.2	13.3	5.72	8.28	-3.99	4.58
	10/28/25	-10.7	11.7	-0.12	4.90	3.75	7.27	-2.00	4.55	8.71	41.6	6.54	13.4	-6.39	8.16	-3.66	4.61
81	03/22/25	2.81	8.92	4.33	4.68	-8.34	7.80	0.56	4.51	4.44	33.8	-7.20	11.5	-0.46	8.96	1.27	3.63
	05/21/25	2.95	7.75	-1.11	3.57	-1.75	5.96	0.27	3.92	-36.1	28.7	4.00	9.01	-3.64	9.06	1.15	3.13
	07/29/25	0.40	8.73	-4.52	5.32	1.14	6.89	-4.98	4.76	3.53	39.9	0.57	11.1	2.25	7.29	2.00	4.48
	10/23/25	-4.22	8.95	4.03	3.81	0.79	5.49	1.08	3.43	22.6	30.8	5.00	8.74	0.57	8.01	-0.74	3.65
82	01/30/25	0.09	4.66	1.61	2.22	0.66	3.45	-0.46	2.09	5.27	15.2	0.57	4.81	-0.18	6.24	-0.01	1.72
	04/10/25	3.00	6.53	4.65	3.98	5.03	5.94	-3.48	3.72	-3.24	26.9	0.72	8.83	-3.14	7.87	1.67	3.00
	07/08/25	-6.78	9.48	6.45	4.12	0.67	6.11	-0.80	4.14	8.91	31.9	-3.07	12.1	2.94	6.55	0.23	3.62
	10/09/25	-1.60	4.40	5.13	2.28	-2.43	3.52	-0.98	2.08	-4.42	15.3	4.46	4.86	0.36	4.52	1.41	1.85
83	03/22/25	-21.4	12.1	-1.60	4.76	1.32	7.11	-3.38	4.16	-5.09	37.3	7.50	10.5	3.50	8.27	2.12	4.27
	04/10/25	-3.96	7.94	-0.06	3.61	-1.35	6.40	-0.66	3.28	-32.6	27.1	-5.99	7.93	-1.07	7.16	0.94	3.30
	08/05/25	-15.2	8.74	0.87	3.39	-6.27	5.72	-3.33	3.57	9.20	29.8	9.68	9.02	4.54	6.74	1.02	3.27
	10/23/25	-5.39	7.27	1.95	3.28	1.96	5.74	-1.37	3.54	-1.45	25.1	-1.61	7.91	-1.93	8.12	0.46	3.16

**TABLE 7
WELL WATER
(pCi/l)**

LOCATION	COLLECTION DATE	Cs-137		Ba-140		La-140		Ac-228	
		(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)
71	03/22/25	-2.62	4.08	-8.30	22.8	4.03	6.45	3.87	13.9
	05/21/25	-1.86	3.49	5.45	19.0	-0.62	7.06	3.64	11.4
	07/29/25	2.50	4.46	-3.62	21.9	1.45	7.43	-3.05	17.2
	10/23/25	1.14	3.33	2.49	20.3	6.80	7.67	1.05	10.6
72	03/22/25	0.05	2.81	2.79	12.9	3.89	4.46	2.69	10.4
	05/21/25	-2.06	2.95	-7.38	17.8	0.89	5.82	-2.37	11.4
	07/29/25	1.01	4.26	1.54	18.1	3.31	7.29	-0.53	15.6
	10/28/25	0.39	4.96	8.90	22.3	2.87	6.49	-0.66	16.4
76	02/26/25	3.16	5.36	-4.59	18.7	5.41	7.08	2.88	19.8
	05/13/25	0.42	1.43	2.95	10.8	4.33	4.04	3.93	6.28
	08/07/25	0.08	4.23	17.0	22.1	2.86	5.71	12.4	15.2
	11/20/25	-0.78	2.96	-6.53	18.8	1.98	7.13	5.84	11.0
77	02/26/25	-3.41	5.27	-15.4	23.6	-0.56	5.40	-7.04	18.0
	05/13/25	-1.97	1.30	-7.29	9.80	0.84	3.91	-0.22	5.89
	08/07/25	-4.67	3.86	5.77	21.8	-2.08	8.07	1.21	13.0
	11/20/25	-1.53	2.63	8.92	17.7	0.37	5.21	4.26	8.77
78	02/26/25	-1.94	3.97	6.94	17.9	4.73	5.94	-7.07	15.1
	05/13/25	0.04	1.24	2.32	8.94	-0.46	2.98	0.96	5.35
	08/07/25	-1.11	3.51	16.3	19.8	-0.47	6.27	11.68	13.2
	11/20/25	-0.38	2.44	0.80	17.2	-2.42	5.49	-3.80	10.7
79	03/22/25	-4.75	4.89	12.2	24.7	-5.41	9.84	-4.65	17.4
	05/21/25	0.85	3.03	18.3	17.4	3.06	7.45	7.54	13.1
	07/29/25	1.13	4.38	-0.45	23.3	0.13	6.03	-1.87	15.3
	10/28/25	-3.78	4.79	5.76	23.5	3.21	6.33	7.02	15.8
81	03/22/25	-3.81	4.68	12.0	21.7	4.42	7.62	-11.5	13.4
	05/21/25	1.37	3.16	9.13	20.7	3.46	6.06	0.72	12.3
	07/29/25	-3.68	4.68	8.01	20.6	2.18	5.81	8.03	17.1
	10/23/25	-0.52	3.35	1.83	20.0	-1.01	7.45	0.34	11.3
82	01/30/25	-0.44	1.65	6.22	12.4	2.05	4.29	6.39	6.34
	04/10/25	-4.13	3.59	3.30	18.2	-0.03	6.62	0.15	11.7
	07/08/25	-4.82	4.07	-1.65	16.7	-0.58	5.95	2.83	14.0
	10/09/25	-1.87	1.86	-12.4	11.5	0.66	3.83	-2.72	7.64
83	03/22/25	-0.84	3.87	-6.65	19.2	2.74	7.77	9.48	13.4
	04/10/25	-1.75	3.77	-0.23	17.8	1.69	5.09	-9.37	11.5
	08/05/25	0.01	3.46	-5.53	19.4	0.94	7.42	6.96	12.4
	10/23/25	-0.94	3.13	-12.0	18.6	-1.28	6.70	-0.20	13.1

TABLE 8
FRUITS & VEGETABLES
(pCi/g wet wt.)

LOCATION 25 (fruit are extra samples not required by the REMODCM)

COLLECTION DATE		Type		Be-7		K-40		Cr-51		Mn-54		Co-58		Fe-59		Co-60	
				(+/ -)		(+/ -)		(+/ -)		(+/ -)		(+/ -)		(+/ -)		(+/ -)	
07/08/25	Zucchini	0.083	0.092	1.739	0.351	0.017	0.103	0.003	0.012	-0.001	0.011	0.008	0.025	0.009	0.014		
07/08/25	Pears	0.082	0.151	3.151	0.516	0.079	0.163	0.001	0.015	-0.002	0.013	-0.007	0.033	-0.002	0.012		
09/02/25	Tomatoes	0.006	0.116	2.587	0.430	-0.088	0.152	-0.010	0.014	0.006	0.014	0.033	0.032	-0.007	0.013		
09/02/25	Pears	-0.058	0.131	1.714	0.460	-0.060	0.139	-0.002	0.014	-0.011	0.018	0.009	0.033	0.009	0.017		

COLLECTION DATE		Type		Zn-65		Nb-95		Zr-95		Ru-103		Ru-106		Sb-125		I-131	
				(+/ -)		(+/ -)		(+/ -)		(+/ -)		(+/ -)		(+/ -)		(+/ -)	
07/08/25	Zucchini	0.005	0.026	0.001	0.012	-0.015	0.017	-0.016	0.013	0.081	0.107	-0.002	0.034	0.012	0.020		
07/08/25	Pears	-0.018	0.034	0.014	0.016	-0.017	0.029	0.002	0.018	0.082	0.134	-0.012	0.047	0.008	0.029		
09/02/25	Tomatoes	-0.020	0.038	-0.005	0.013	-0.008	0.026	-0.003	0.017	0.065	0.135	0.014	0.042	0.010	0.030		
09/02/25	Pears	0.044	0.037	-0.006	0.014	-0.006	0.030	-0.006	0.015	-0.035	0.135	-0.024	0.043	0.013	0.026		

COLLECTION DATE		Type		Cs-134		Cs-137		Ba-140		La-140		Ce-141		Ce-144		Ac-228	
				(+/ -)		(+/ -)		(+/ -)		(+/ -)		(+/ -)		(+/ -)		(+/ -)	
07/08/25	Zucchini	-0.005	0.014	0.012	0.011	-0.040	0.055	-0.005	0.013	0.004	0.020	-0.034	0.077	0.010	0.045		
07/08/25	Pears	0.000	0.017	0.001	0.016	-0.021	0.080	0.024	0.022	-0.006	0.031	-0.075	0.119	0.042	0.058		
09/02/25	Tomatoes	-0.004	0.014	-0.004	0.016	-0.052	0.070	-0.010	0.018	0.021	0.027	0.022	0.109	-0.048	0.052		
09/02/25	Pears	0.012	0.019	0.005	0.017	-0.037	0.085	0.016	0.027	-0.013	0.024	0.000	0.081	0.016	0.064		

Results in bold type are positive.

**TABLE 8
FRUITS & VEGETABLES
(pCi/g wet wt.)**

LOCATION 25X (fruit are extra samples not required by the REMODCM)

COLLECTION DATE	Type	Be-7		K-40		Cr-51		Mn-54		Co-58		Fe-59		Co-60	
		(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)		
09/02/25	Tomatoes	0.068	0.124	1.629	0.434	0.005	0.129	-0.004	0.014	0.005	0.014	-0.014	0.031	0.014	0.016
10/14/25	Tomatoes	-0.130	0.118	1.630	0.376	-0.053	0.126	-0.004	0.013	0.013	0.013	-0.009	0.028	0.017	0.016

COLLECTION DATE	Type	Zn-65		Nb-95		Zr-95		Ru-103		Ru-106		Sb-125		I-131	
		(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)		
09/02/25	Tomatoes	-0.029	0.034	-0.006	0.012	-0.011	0.023	0.010	0.015	-0.002	0.130	-0.019	0.039	0.015	0.026
10/14/25	Tomatoes	-0.024	0.041	-0.008	0.016	0.014	0.025	0.016	0.016	-0.022	0.121	0.005	0.041	0.017	0.030

COLLECTION DATE	Type	Cs-134		Cs-137		Ba-140		La-140		Ce-141		Ce-144		Ac-228	
		(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)		
09/02/25	Tomatoes	-0.005	0.017	-0.004	0.015	-0.004	0.067	-0.021	0.019	-0.022	0.025	-0.065	0.100	0.057	0.055
10/14/25	Tomatoes	0.006	0.014	-0.012	0.013	0.020	0.077	-0.007	0.023	0.002	0.025	0.030	0.102	-0.001	0.052

Results in bold type are positive.

**TABLE 8
FRUITS & VEGETABLES
(pCi/g wet wt.)**

LOCATION 26C (fruit are extra samples not required by the REMODCM)

COLLECTION DATE	Type	Be-7 (+/-)		K-40 (+/-)		Cr-51 (+/-)		Mn-54 (+/-)		Co-58 (+/-)		Fe-59 (+/-)		Co-60 (+/-)	
07/08/25	Squash	-0.073	0.089	1.585	0.402	0.027	0.084	-0.011	0.013	-0.002	0.011	-0.016	0.023	0.006	0.011
07/08/25	Blueberries	0.076	0.085	0.575	0.203	-0.011	0.084	-0.006	0.011	-0.006	0.009	-0.011	0.023	0.002	0.009
09/02/25	Tomatoes	0.006	0.132	1.436	0.409	-0.072	0.138	-0.014	0.015	0.000	0.015	0.012	0.031	0.002	0.015
09/02/25	Apples	-0.046	0.132	1.059	0.448	-0.062	0.157	-0.003	0.014	-0.006	0.016	0.004	0.031	0.006	0.014
10/14/25	Tomatoes	0.090	0.118	1.212	0.384	0.097	0.125	0.000	0.013	0.008	0.015	-0.017	0.031	0.002	0.015

COLLECTION DATE	Type	Zn-65 (+/-)		Nb-95 (+/-)		Zr-95 (+/-)		Ru-103 (+/-)		Ru-106 (+/-)		Sb-125 (+/-)		I-131 (+/-)	
07/08/25	Squash	-0.043	0.026	-0.003	0.011	-0.011	0.018	-0.005	0.011	-0.031	0.099	-0.007	0.025	0.010	0.016
07/08/25	Blueberries	0.018	0.022	0.005	0.011	0.006	0.018	-0.001	0.011	-0.006	0.092	0.008	0.027	-0.002	0.014
09/02/25	Tomatoes	-0.011	0.032	0.004	0.017	0.029	0.024	0.009	0.015	-0.072	0.118	0.001	0.043	0.003	0.028
09/02/25	Apples	0.016	0.033	0.010	0.014	0.005	0.026	0.000	0.018	-0.127	0.140	-0.004	0.043	0.000	0.031
10/14/25	Tomatoes	-0.055	0.034	0.003	0.014	0.003	0.027	0.017	0.013	0.017	0.122	0.003	0.038	-0.004	0.026

COLLECTION DATE	Type	Cs-134 (+/-)		Cs-137 (+/-)		Ba-140 (+/-)		La-140 (+/-)		Ce-141 (+/-)		Ce-144 (+/-)		Ac-228 (+/-)	
07/08/25	Squash	0.000	0.011	-0.005	0.009	-0.050	0.053	-0.012	0.020	0.009	0.015	-0.020	0.060	0.009	0.049
07/08/25	Blueberries	0.000	0.013	0.003	0.011	-0.024	0.053	0.004	0.014	-0.001	0.014	0.010	0.051	0.033	0.040
09/02/25	Tomatoes	0.015	0.014	0.005	0.017	-0.050	0.080	-0.007	0.018	-0.004	0.027	-0.004	0.107	0.023	0.069
09/02/25	Apples	0.006	0.017	-0.006	0.015	0.003	0.080	0.006	0.020	-0.006	0.029	-0.049	0.109	-0.038	0.052
10/14/25	Tomatoes	0.004	0.015	-0.001	0.012	0.030	0.076	0.010	0.021	0.017	0.024	-0.067	0.100	0.009	0.051

C = Control location, Background location
Results in bold type are positive.

**TABLE 9
BROADLEAF VEGETATION
(pCi/g wet wt.)**

LOCATION 1

COLLECTION DATE	Be-7		K-40		Cr-51		Mn-54		Co-58		Fe-59		Co-60	
	(+/ -)		(+/ -)		(+/ -)		(+/ -)		(+/ -)		(+/ -)		(+/ -)	
06/24/25	0.944	0.275	4.173	0.555	0.113	0.155	0.002	0.014	-0.006	0.014	0.029	0.034	0.007	0.015
08/19/25	0.975	0.274	2.968	0.475	0.108	0.140	-0.007	0.015	0.009	0.016	0.007	0.034	0.021	0.016
	Zn-65		Nb-95		Zr-95		Ru-103		Ru-106		Sb-125		I-131	
	(+/ -)		(+/ -)		(+/ -)		(+/ -)		(+/ -)		(+/ -)		(+/ -)	
06/24/25	-0.029	0.039	0.013	0.016	-0.020	0.026	-0.003	0.017	0.044	0.128	-0.054	0.045	0.014	0.028
08/19/25	-0.012	0.036	0.011	0.016	0.015	0.028	0.003	0.017	0.027	0.143	0.002	0.044	0.015	0.030
	Cs-134		Cs-137		Ba-140		La-140		Ce-141		Ce-144		Ac-228	
	(+/ -)		(+/ -)		(+/ -)		(+/ -)		(+/ -)		(+/ -)		(+/ -)	
06/24/25	-0.004	0.017	0.001	0.015	-0.063	0.075	-0.007	0.019	-0.011	0.028	-0.023	0.106	0.055	0.061
08/19/25	0.002	0.018	-0.001	0.018	-0.029	0.084	-0.018	0.017	-0.015	0.024	0.029	0.084	0.046	0.067

LOCATION 10

COLLECTION DATE	Be-7		K-40		Cr-51		Mn-54		Co-58		Fe-59		Co-60	
	(+/ -)		(+/ -)		(+/ -)		(+/ -)		(+/ -)		(+/ -)		(+/ -)	
06/24/25	0.724	0.262	3.062	0.456	-0.002	0.133	0.002	0.015	-0.004	0.014	0.019	0.029	0.001	0.013
08/19/25	0.588	0.187	2.624	0.472	-0.013	0.149	-0.004	0.014	-0.005	0.014	0.023	0.031	-0.001	0.015
	Zn-65		Nb-95		Zr-95		Ru-103		Ru-106		Sb-125		I-131	
	(+/ -)		(+/ -)		(+/ -)		(+/ -)		(+/ -)		(+/ -)		(+/ -)	
06/24/25	-0.033	0.037	-0.004	0.015	0.020	0.025	-0.011	0.017	0.007	0.138	-0.007	0.042	0.003	0.023
08/19/25	-0.020	0.033	-0.012	0.015	0.008	0.026	0.006	0.017	0.063	0.141	0.027	0.040	0.011	0.033
	Cs-134		Cs-137		Ba-140		La-140		Ce-141		Ce-144		Ac-228	
	(+/ -)		(+/ -)		(+/ -)		(+/ -)		(+/ -)		(+/ -)		(+/ -)	
06/24/25	-0.010	0.016	-0.004	0.015	0.003	0.073	-0.008	0.017	-0.009	0.025	-0.022	0.105	-0.025	0.051
08/19/25	0.007	0.014	0.004	0.014	-0.067	0.087	0.021	0.022	0.041	0.027	0.108	0.101	0.099	0.056

Results in bold type are positive.

**TABLE 9
BROADLEAF VEGETATION
(pCi/g wet wt.)**

LOCATION 17

COLLECTION DATE	Be-7		K-40		Cr-51		Mn-54		Co-58		Fe-59		Co-60	
	(+/ -)		(+/ -)		(+/ -)		(+/ -)		(+/ -)		(+/ -)		(+/ -)	
06/24/25	0.895	0.220	3.279	0.440	-0.029	0.147	-0.011	0.013	0.008	0.013	0.008	0.031	0.005	0.014
08/19/25	0.980	0.223	3.641	0.508	-0.122	0.161	-0.004	0.015	0.004	0.014	0.015	0.033	0.007	0.014
	Zn-65		Nb-95		Zr-95		Ru-103		Ru-106		Sb-125		I-131	
	(+/ -)		(+/ -)		(+/ -)		(+/ -)		(+/ -)		(+/ -)		(+/ -)	
06/24/25	-0.042	0.032	-0.014	0.014	0.012	0.024	0.003	0.015	0.000	0.128	0.013	0.039	0.006	0.028
08/19/25	-0.041	0.037	0.012	0.016	0.017	0.030	-0.004	0.016	0.017	0.150	-0.025	0.043	0.000	0.033
	Cs-134		Cs-137		Ba-140		La-140		Ce-141		Ce-144		Ac-228	
	(+/ -)		(+/ -)		(+/ -)		(+/ -)		(+/ -)		(+/ -)		(+/ -)	
06/24/25	0.003	0.015	0.015	0.015	-0.026	0.071	-0.001	0.019	-0.003	0.028	0.030	0.103	0.036	0.054
08/19/25	-0.011	0.016	0.002	0.016	-0.049	0.093	-0.018	0.027	0.018	0.029	-0.051	0.107	0.039	0.057

LOCATION 26C

COLLECTION DATE	Be-7		K-40		Cr-51		Mn-54		Co-58		Fe-59		Co-60	
	(+/ -)		(+/ -)		(+/ -)		(+/ -)		(+/ -)		(+/ -)		(+/ -)	
06/24/25	0.877	0.350	2.969	0.608	-0.087	0.165	0.012	0.017	-0.001	0.017	-0.005	0.035	0.000	0.020
08/19/25	0.876	0.278	3.552	0.632	0.026	0.147	-0.011	0.016	-0.016	0.016	-0.002	0.037	0.014	0.018
	Zn-65		Nb-95		Zr-95		Ru-103		Ru-106		Sb-125		I-131	
	(+/ -)		(+/ -)		(+/ -)		(+/ -)		(+/ -)		(+/ -)		(+/ -)	
06/24/25	-0.040	0.041	0.009	0.018	0.034	0.030	0.002	0.020	-0.038	0.156	-0.041	0.055	-0.045	0.029
08/19/25	-0.011	0.033	0.001	0.020	0.017	0.026	0.004	0.018	0.032	0.141	-0.040	0.041	0.011	0.032
	Cs-134		Cs-137		Ba-140		La-140		Ce-141		Ce-144		Ac-228	
	(+/ -)		(+/ -)		(+/ -)		(+/ -)		(+/ -)		(+/ -)		(+/ -)	
06/24/25	0.011	0.020	0.005	0.019	0.017	0.090	-0.004	0.027	-0.015	0.032	0.056	0.124	0.072	0.078
08/19/25	-0.003	0.020	0.026	0.020	-0.035	0.084	-0.019	0.026	0.005	0.022	0.002	0.090	0.115	0.063

C= Control location, Background location
Results in bold type are positive.

TABLE 10
SEA WATER
(pCi/l)

LOCATION 32

COLLECTION DATE	H-3		Be-7		K-40		Cr-51		Mn-54		Co-58		Fe-59	
	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)
01/28/25	428	219	-13.9	28.3	248	86	7.42	34.3	2.24	3.77	1.60	3.84	2.11	8.34
02/25/25	451	221	20.6	21.1	289	77	-7.28	24.4	-0.99	2.04	1.02	2.22	3.75	5.18
03/25/25	1070	656	4.09	31.3	361	98	20.2	35.0	2.37	4.23	-4.21	3.92	1.10	8.18
04/29/25	1230	266	-6.01	27.9	231	102	17.4	28.9	-1.00	3.77	-1.62	3.26	-3.87	7.52
05/27/25	717	228	-12.5	34.2	355	101	-15.3	33.2	2.01	4.03	-2.22	3.55	-2.44	8.25
06/24/25	205	185	5.06	30.2	227	87	12.9	33.3	0.22	3.81	0.58	3.86	1.82	7.71
07/29/25	556	213	22.1	31.6	269	89	-4.54	32.3	3.51	3.35	0.16	3.62	0.68	9.46
08/26/25	548	231	-13.6	26.6	276	95	28.1	31.2	-1.36	2.93	-1.54	3.02	1.39	6.85
10/01/25	472	221	-19.1	35.6	205	92	8.48	43.4	-1.16	4.50	-2.92	4.79	-6.59	10.1
10/28/25	455	227	-0.17	32.5	266	95	6.57	32.3	0.70	4.93	2.36	4.22	-2.10	8.09
11/25/25	261	201	-1.74	29.5	231	102	-30.6	31.9	0.00	3.76	-0.72	4.13	1.70	8.51
12/30/25	640	147	-14.3	32.1	273	89	2.18	31.5	0.89	3.19	0.39	3.77	-3.16	8.35

COLLECTION DATE	Co-60		Zn-65		Nb-95		Zr-95		Ru-103		Ru-106		Sb-125	
	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)
01/28/25	1.77	3.49	-3.62	9.56	0.23	3.46	-5.53	6.61	-1.63	3.62	-27.9	31.9	3.59	10.4
02/25/25	3.77	3.15	2.32	5.37	0.08	2.35	-2.90	4.51	-0.66	2.74	-8.33	25.3	-1.24	7.18
03/25/25	1.38	4.13	-9.15	8.37	1.88	3.64	1.63	7.01	-1.39	4.04	-16.5	33.8	4.15	10.4
04/29/25	3.86	3.82	-4.94	8.98	-1.27	3.79	3.26	4.71	-1.27	3.10	2.44	26.2	1.68	8.20
05/27/25	3.29	4.35	2.44	6.95	-2.71	3.83	4.09	6.81	-4.11	3.68	9.69	31.0	-2.35	9.81
06/24/25	-1.56	4.00	-10.4	8.92	-0.31	4.31	2.14	6.42	0.69	3.83	9.21	36.2	2.05	9.99
07/29/25	-0.81	3.14	-1.87	8.50	0.57	3.51	5.20	6.33	0.63	3.70	-1.22	28.2	3.20	9.48
08/26/25	-1.38	3.59	2.66	5.73	0.48	3.15	-1.21	6.02	0.00	3.42	17.0	27.2	3.96	9.11
10/01/25	-0.47	4.33	-9.26	12.2	-1.50	5.40	-4.61	9.34	-3.65	4.70	-32.0	43.5	-7.33	11.7
10/28/25	-1.42	4.30	-4.63	8.29	-3.42	4.31	1.63	7.18	-0.71	4.08	-3.96	38.4	6.60	10.4
11/25/25	2.35	3.37	-12.0	8.79	-0.24	3.37	4.35	6.80	-2.13	4.30	2.06	34.5	4.80	10.1
12/30/25	4.50	4.15	0.06	6.75	-1.82	3.50	-2.27	5.86	-1.56	3.47	-10.5	32.9	4.30	9.22

Results in bold type are positive.

**TABLE 10
SEA WATER
(pCi/l)**

LOCATION 32 Cont'd

COLLECTION DATE	I-131		Cs-134		Cs-137		Ba-140		La-140		Ac-228	
	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)
01/28/25	-2.49	5.57	-0.79	4.05	-3.48	4.13	4.94	16.1	-1.11	4.90	-10.1	13.2
02/25/25	2.74	4.18	3.35	3.24	2.43	2.85	-0.38	12.8	0.20	3.56	-3.70	8.91
03/25/25	1.53	6.10	-0.27	3.94	0.31	3.96	3.42	15.9	-1.53	5.45	-5.79	13.5
04/29/25	2.81	5.36	-0.86	3.69	2.80	3.40	0.22	14.7	2.20	6.31	1.31	13.5
05/27/25	0.93	5.70	1.72	4.19	-1.21	3.46	-3.42	17.7	-0.51	5.81	1.36	13.3
06/24/25	2.85	7.78	1.60	4.14	0.81	3.63	11.6	18.2	-1.76	6.24	-3.35	14.3
07/29/25	-0.47	6.08	1.94	3.79	1.61	3.92	11.2	18.0	-4.99	5.72	-11.9	13.9
08/26/25	0.82	6.55	1.06	3.24	0.60	2.99	7.17	14.2	-1.07	5.60	-0.38	10.3
10/01/25	-7.64	9.61	1.39	4.88	0.60	4.53	-6.13	22.0	3.93	7.35	-2.32	17.7
10/28/25	3.63	5.46	0.25	4.45	-0.10	3.60	-7.64	16.2	-3.57	6.26	5.00	13.4
11/25/25	-5.90	6.54	4.16	4.24	-1.24	3.42	0.84	16.8	0.31	6.98	-9.62	14.2
12/30/25	4.62	6.74	3.94	4.04	-1.83	3.62	0.37	17.8	-5.78	6.90	3.60	12.6

LOCATION 37C

COLLECTION DATE	H-3		Be-7		K-40		Cr-51		Mn-54		Co-58		Fe-59	
	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)
03/18/25	-10	111	-27.4	30.0	250	92	-13.6	32.4	0.25	3.62	2.16	3.76	-1.88	6.33
06/10/25	-21	174	4.90	17.0	231	50	12.1	16.9	0.36	1.71	-0.15	1.73	4.67	4.22
09/16/25	83	171	7.66	34.1	221	88	23.7	34.4	-0.37	3.97	-1.95	4.08	5.32	9.54
12/16/25	174	189	-0.92	27.7	229	98	6.13	32.3	-2.44	3.22	1.36	3.15	2.70	6.77

COLLECTION DATE	Co-60		Zn-65		Nb-95		Zr-95		Ru-103		Ru-106		Sb-125	
	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)
03/18/25	-1.48	3.36	-2.17	8.44	0.94	3.08	3.10	6.83	0.96	3.66	20.4	34.6	4.04	8.78
06/10/25	0.88	1.96	-0.38	3.72	1.77	1.91	0.80	3.28	-0.84	2.18	-11.1	16.3	-0.17	4.35
09/16/25	2.02	4.25	-0.14	7.10	4.54	3.97	1.63	6.56	-1.02	4.10	8.40	34.6	1.37	9.55
12/16/25	0.68	4.05	-5.37	8.00	-2.01	3.64	-4.78	6.08	-1.66	3.37	11.2	27.9	-5.86	9.93

COLLECTION DATE	I-131		Cs-134		Cs-137		Ba-140		La-140		Ac-228	
	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)
03/18/25	2.40	4.84	-2.03	4.99	-1.25	3.72	2.36	14.0	1.22	4.27	-14.0	15.1
06/10/25	2.06	4.58	0.12	1.83	1.10	1.79	9.89	11.5	-0.5	4.17	-4.09	7.94
09/16/25	0.41	6.10	2.48	4.29	1.29	3.92	-2.75	18.1	-4.21	6.24	-9.66	13.9
12/16/25	0.66	5.78	1.37	3.66	0.05	3.53	-1.05	14.6	2.91	4.11	-13.9	12.6

C= Control location, Background location
Results in bold type are positive.

TABLE 11
BOTTOM SEDIMENT
(pCi/g dry wt.)

LOCATION	COLLECTION DATE	Be-7		K-40		Cr-51		Mn-54		Co-58		Fe-59	
		(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)
31	02/24/25	0.192	0.317	17.17	1.877	0.175	0.324	-0.006	0.040	-0.011	0.037	-0.029	0.102
31	09/16/25	0.029	0.350	15.06	1.670	0.249	0.414	0.028	0.043	-0.014	0.043	-0.027	0.104
32	06/18/25	0.085	0.402	16.05	1.923	0.007	0.378	0.002	0.046	-0.017	0.047	-0.070	0.085
32	09/11/25	-0.035	0.516	16.81	2.126	-0.224	0.580	0.031	0.054	0.009	0.054	-0.038	0.137
33	04/08/25	0.152	0.353	15.79	1.774	-0.090	0.356	0.003	0.036	-0.043	0.040	-0.024	0.090
33	09/23/25	0.144	0.555	10.06	1.459	0.774	0.787	0.078	0.053	0.027	0.052	-0.048	0.154
34	04/08/25	0.091	0.368	11.43	1.603	0.180	0.355	0.015	0.043	-0.001	0.034	-0.059	0.095
34	09/23/25	-0.185	0.374	12.41	1.536	-0.049	0.529	-0.016	0.036	-0.024	0.048	0.017	0.130
37C	02/24/25	0.033	0.216	13.44	1.438	-0.095	0.235	-0.016	0.029	0.010	0.032	-0.011	0.066
37C	09/16/25	-0.222	0.361	14.38	1.586	0.012	0.389	-0.025	0.036	-0.028	0.038	0.072	0.089

LOCATION	COLLECTION DATE	Co-60		Zn-65		Nb-95		Zr-95		Ru-103		Ru-106	
		(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)
31	02/24/25	-0.019	0.039	-0.093	0.119	0.043	0.044	0.001	0.070	-0.015	0.037	0.083	0.371
31	09/16/25	-0.020	0.045	-0.011	0.109	-0.027	0.038	-0.013	0.082	0.007	0.041	0.162	0.442
32	06/18/25	-0.045	0.049	-0.179	0.121	-0.015	0.051	0.076	0.088	-0.028	0.045	0.138	0.390
32	09/11/25	-0.069	0.060	-0.159	0.148	-0.048	0.063	0.007	0.110	-0.003	0.072	-0.062	0.479
33	04/08/25	-0.008	0.045	-0.053	0.099	-0.019	0.045	-0.021	0.074	0.002	0.040	-0.147	0.394
33	09/23/25	-0.013	0.048	-0.189	0.141	0.017	0.062	0.045	0.104	-0.025	0.077	0.362	0.451
34	04/08/25	-0.020	0.048	-0.024	0.102	0.011	0.045	-0.025	0.069	0.007	0.041	0.205	0.318
34	09/23/25	0.004	0.036	-0.079	0.110	0.009	0.053	0.005	0.081	0.008	0.056	-0.265	0.362
37C	02/24/25	0.009	0.032	-0.014	0.079	0.010	0.030	-0.022	0.047	0.003	0.028	-0.175	0.241
37C	09/16/25	0.013	0.035	-0.112	0.112	0.048	0.040	-0.005	0.066	0.000	0.042	0.055	0.331

C= Control location, Background location
Results in bold type are positive.

TABLE 11
BOTTOM SEDIMENT
(pCi/g dry wt.)

LOCATION	COLLECTION DATE	Ag-110M		Sb-125		I-131		Cs-134		Cs-137		Ac-228	
		(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)
31	02/24/25	-0.003	0.038	-0.03	0.100	0.050	0.060	0.093	0.055	-0.022	0.043	2.206	0.295
31	09/16/25	-0.036	0.043	0.03	0.120	0.026	0.084	0.068	0.057	0.003	0.043	0.981	0.312
32	06/18/25	-0.027	0.044	0.02	0.124	0.078	0.077	0.046	0.057	0.013	0.046	1.383	0.318
32	09/11/25	-0.049	0.052	0.12	0.152	-0.082	0.180	0.041	0.061	-0.006	0.053	0.663	0.307
33	04/08/25	-0.021	0.036	0.02	0.091	0.041	0.064	0.032	0.045	0.005	0.034	0.138	0.188
33	09/23/25	-0.020	0.043	0.05	0.126	0.177	0.793	0.039	0.048	0.003	0.043	0.780	0.327
34	04/08/25	-0.026	0.035	-0.19	0.112	0.005	0.070	0.027	0.044	0.039	0.041	0.108	0.182
34	09/23/25	-0.003	0.031	-0.03	0.089	0.116	0.543	-0.004	0.039	0.011	0.032	0.185	0.151
37C	02/24/25	0.010	0.027	-0.03	0.076	-0.023	0.047	0.026	0.036	0.017	0.031	0.209	0.133
37C	09/16/25	0.015	0.037	-0.10	0.116	-0.055	0.079	-0.010	0.046	-0.015	0.039	0.214	0.170

C= Control location, Background location
Results in bold type are positive.

TABLE 12
AQUATIC FLORA - FUCUS
(pCi/g wet wt.)

LOCATION	COLLECTION DATE	Be-7		K-40		Cr-51		Mn-54		Co-58		Fe-59	
		(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)		
29	03/05/25	0.1936	0.0823	5.2390	0.4441	-0.0693	0.0658	-0.0032	0.0076	0.0005	0.0081	0.0138	0.0223
29	05/21/25	0.1770	0.1103	6.0170	0.5225	0.0009	0.0913	0.0062	0.0116	0.0046	0.0108	-0.0136	0.0236
29	08/27/25	0.0328	0.0932	4.9080	0.4880	-0.0474	0.0877	0.0065	0.0114	0.0093	0.0105	-0.0068	0.0253
29	11/14/25	0.0343	0.1010	6.7280	0.5533	0.0301	0.0935	0.0023	0.0103	-0.0004	0.0123	-0.0052	0.0305
32	03/10/25	0.1106	0.1253	6.7470	0.6958	0.0302	0.1032	-0.0039	0.0134	0.0128	0.0145	-0.0080	0.0338
32	06/02/25	-0.0102	0.0984	7.9860	0.5950	0.0130	0.0910	-0.0027	0.0117	0.0075	0.0115	-0.0078	0.0264
32	08/27/25	-0.0418	0.0844	5.4220	0.4576	0.0547	0.0925	0.0007	0.0098	0.0019	0.0102	0.0001	0.0244
32	11/14/25	0.0587	0.0935	8.9980	0.5992	-0.1009	0.0955	-0.0065	0.0106	0.0072	0.0129	-0.0009	0.0297
35	03/10/25	0.2319	0.1556	7.8040	0.7791	0.0425	0.1338	0.0020	0.0152	0.0219	0.0154	0.0058	0.0407
35	06/18/25	0.1602	0.1190	6.0230	0.5610	0.0399	0.0931	0.0048	0.0116	0.0014	0.0110	-0.0090	0.0262
35	09/16/25	0.0718	0.1103	7.4540	0.5510	0.0078	0.1201	-0.0019	0.0109	0.0067	0.0116	-0.0012	0.0273
35	11/14/25	0.1947	0.1158	8.0700	0.5182	0.0358	0.1214	-0.0029	0.0116	-0.0019	0.0110	0.0212	0.0239
36C	02/24/25	0.1160	0.1552	5.6710	0.6316	-0.0165	0.1424	-0.0053	0.0138	0.0016	0.0161	-0.0045	0.0339
36C	06/18/25	0.1815	0.1012	4.3310	0.5262	0.0434	0.0775	0.0037	0.0097	-0.0011	0.0108	-0.0141	0.0256
36C	09/16/25	0.2266	0.1011	5.0600	0.5203	0.0363	0.0946	-0.0073	0.0100	0.0052	0.0113	0.0005	0.0287
36C	11/14/25	0.1342	0.1103	7.9770	0.5223	0.0358	0.0963	-0.0004	0.0103	0.0006	0.0108	-0.0159	0.0276

C= Control location, Background location
Results in bold type are positive.

TABLE 12
AQUATIC FLORA - FUCUS
(pCi/g wet wt.)

LOCATION	COLLECTION DATE	Co-60		Zn-65		Nb-95		Zr-95		Ru-103		Ru-106	
		(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)
29	03/05/25	-0.0030	0.0073	-0.0176	0.0227	0.0001	0.0092	-0.0028	0.0120	-0.0104	0.0081	-0.0085	0.0614
29	05/21/25	0.0010	0.0133	-0.0033	0.0276	-0.0022	0.0102	0.0057	0.0180	0.0032	0.0122	0.0406	0.1040
29	08/27/25	0.0016	0.0128	-0.0144	0.0293	-0.0007	0.0098	-0.0041	0.0181	0.0002	0.0099	-0.0923	0.0929
29	11/14/25	-0.0025	0.0118	-0.0123	0.0295	-0.0012	0.0102	0.0030	0.0163	-0.0125	0.0111	-0.0193	0.0964
32	03/10/25	-0.0022	0.0163	-0.0012	0.0353	0.0039	0.0140	0.0070	0.0237	-0.0116	0.0114	0.0209	0.1142
32	06/02/25	0.0025	0.0125	0.0016	0.0287	0.0027	0.0119	-0.0030	0.0199	-0.0070	0.0104	-0.0506	0.0905
32	08/27/25	0.0117	0.0103	-0.0143	0.0239	0.0051	0.0100	0.0153	0.0148	-0.0079	0.0093	0.0241	0.0875
32	11/14/25	-0.0172	0.0131	-0.0175	0.0303	0.0018	0.0133	-0.0212	0.0232	0.0009	0.0109	-0.1152	0.1102
35	03/10/25	0.0096	0.0175	-0.0044	0.0445	-0.0079	0.0149	-0.0133	0.0282	-0.0065	0.0155	0.0028	0.1517
35	06/18/25	-0.0079	0.0128	-0.0206	0.0287	-0.0050	0.0115	0.0059	0.0207	-0.0072	0.0123	0.0045	0.1040
35	09/16/25	0.0057	0.0145	-0.0156	0.0327	0.0000	0.0129	-0.0015	0.0238	-0.0048	0.0120	0.0607	0.0971
35	11/14/25	0.0014	0.0121	-0.0207	0.0294	0.0069	0.0119	0.0048	0.0201	0.0053	0.0115	0.0256	0.0945
36C	02/24/25	-0.0007	0.0149	-0.0710	0.0467	0.0084	0.0171	0.0068	0.0259	0.0051	0.0169	0.0360	0.1452
36C	06/18/25	0.0031	0.0133	0.0179	0.0287	0.0025	0.0105	-0.0005	0.0206	-0.0002	0.0099	-0.0942	0.0929
36C	09/16/25	0.0075	0.0106	-0.0266	0.0312	0.0032	0.0110	0.0057	0.0200	-0.0070	0.0129	-0.0109	0.0898
36C	11/14/25	0.0094	0.0125	-0.0053	0.0273	0.0066	0.0108	0.0173	0.0192	-0.0007	0.0115	-0.0136	0.0888

C= Control location, Background location
Results in bold type are positive.

TABLE 12
AQUATIC FLORA - FUCUS
(pCi/g wet wt.)

LOCATION	COLLECTION DATE	Ag-110M		Sb-125		I-131		Cs-134		Cs-137		Ac-228	
		(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)
29	03/05/25	0.0023	0.0078	0.0060	0.0174	0.0156	0.0119	0.0047	0.0081	0.0006	0.0090	0.0953	0.0409
29	05/21/25	0.0006	0.0092	0.0011	0.0282	0.0051	0.0174	0.0107	0.0116	0.0064	0.0109	0.1026	0.0496
29	08/27/25	-0.0121	0.0112	0.0014	0.0284	0.0179	0.0196	0.0046	0.0096	0.0118	0.0118	0.0452	0.0475
29	11/14/25	0.0016	0.0101	0.0016	0.0238	-0.0062	0.0211	-0.0023	0.0122	-0.0017	0.0105	0.0927	0.0504
32	03/10/25	-0.0074	0.0126	-0.0329	0.0286	0.0120	0.0229	0.0124	0.0122	0.0133	0.0133	0.0666	0.0616
32	06/02/25	0.0087	0.0104	-0.0025	0.0259	0.0079	0.0197	0.0023	0.0136	-0.0063	0.0115	0.0593	0.0517
32	08/27/25	0.0043	0.0096	-0.0171	0.0228	0.0011	0.0170	0.0032	0.0093	0.0002	0.0103	0.0422	0.0420
32	11/14/25	-0.0013	0.0100	-0.0184	0.0239	0.0005	0.0206	-0.0050	0.0128	0.0124	0.0104	0.0756	0.0482
35	03/10/25	-0.0062	0.0138	-0.0154	0.0407	-0.0172	0.0244	0.0052	0.0181	0.0122	0.0167	0.0916	0.0776
35	06/18/25	0.0086	0.0106	0.0132	0.0279	0.0014	0.0160	-0.0008	0.0130	0.0016	0.0118	0.0964	0.0516
35	09/16/25	-0.0015	0.0116	0.0013	0.0330	0.0202	0.0241	0.0076	0.0140	-0.0068	0.0117	0.0191	0.0468
35	11/14/25	0.0077	0.0110	0.0160	0.0312	-0.0137	0.0258	0.0109	0.0135	0.0026	0.0117	0.1279	0.0481
36C	02/24/25	-0.0014	0.0140	-0.0226	0.0405	0.0158	0.0256	0.0074	0.0164	-0.0018	0.0160	0.1299	0.0751
36C	06/18/25	-0.0009	0.0096	-0.0059	0.0267	0.0045	0.0131	0.0141	0.0119	0.0025	0.0114	0.0604	0.0495
36C	09/16/25	-0.0037	0.0107	0.0064	0.0261	0.0092	0.0163	0.0016	0.0126	-0.0047	0.0111	0.0255	0.0477
36C	11/14/25	-0.0006	0.0097	0.0010	0.0280	0.0139	0.0216	0.0083	0.0131	-0.0013	0.0099	0.1128	0.0608

C= Control location, Background location
Results in bold type are positive.

TABLE 13
FISH
(pCi/g wet wt.)

LOCATION	COLLECTION DATE	Be-7		K-40		Cr-51		Mn-54		Co-58		Fe-59	
		(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)
28	06/16/25	0.114	0.271	4.239	1.050	0.032	0.272	-0.014	0.036	0.011	0.034	0.095	0.083
29	08/25/25	-0.078	0.220	3.933	0.798	0.093	0.242	0.002	0.027	-0.014	0.024	-0.030	0.057
35	06/05/25	-0.037	0.106	2.745	0.383	0.000	0.123	-0.002	0.012	-0.006	0.013	0.019	0.029
35	06/19/25	-0.073	0.113	4.699	0.555	-0.033	0.126	-0.008	0.014	-0.010	0.015	-0.026	0.034
35	08/25/25	0.185	0.224	3.922	0.851	-0.088	0.261	0.016	0.028	0.000	0.029	0.000	0.061

LOCATION	COLLECTION DATE	Co-60		Zn-65		Nb-95		Zr-95		Ru-103		Ru-106	
		(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)
28	06/16/25	0.013	0.036	-0.024	0.080	-0.005	0.034	0.003	0.056	0.013	0.031	-0.043	0.347
29	08/25/25	0.021	0.026	0.022	0.051	0.016	0.027	-0.015	0.046	0.004	0.028	0.142	0.224
35	06/05/25	0.007	0.014	-0.027	0.028	0.010	0.014	0.007	0.023	-0.004	0.014	0.040	0.109
35	06/19/25	0.036	0.020	-0.053	0.036	0.000	0.015	-0.009	0.025	-0.004	0.015	0.044	0.123
35	08/25/25	0.018	0.033	-0.033	0.065	0.006	0.028	-0.042	0.045	-0.003	0.030	0.019	0.266

LOCATION	COLLECTION DATE	Ag-110M		Sb-125		I-131		Cs-134		Cs-137		Ac-228	
		(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)
28	06/16/25	0.001	0.028	0.042	0.086	-0.019	0.054	0.011	0.041	0.015	0.031	-0.017	0.128
29	08/25/25	-0.008	0.022	-0.020	0.068	-0.041	0.052	-0.002	0.029	-0.008	0.021	-0.033	0.097
35	06/05/25	-0.005	0.011	-0.010	0.031	-0.014	0.039	-0.001	0.013	0.010	0.012	0.019	0.055
35	06/19/25	0.001	0.013	0.006	0.032	-0.015	0.035	-0.003	0.014	-0.008	0.014	-0.036	0.077
35	08/25/25	-0.009	0.025	-0.011	0.069	-0.007	0.053	0.009	0.033	-0.009	0.026	-0.080	0.114

Results in bold type are positive.

**TABLE 14
OYSTERS
(pCi/g wet wt.)**

LOCATION	COLLECTION DATE	Be-7		K-40		Cr-51		Mn-54		Co-58		Fe-59	
		(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)
31	06/18/25	-0.142	0.290	2.267	0.672	0.056	0.286	0.012	0.032	-0.003	0.034	-0.049	0.065
31	09/24/25	-0.009	0.126	2.584	0.418	-0.040	0.140	0.006	0.013	0.003	0.014	0.024	0.029
89C	04/24/25	0.075	0.200	2.297	0.615	0.113	0.184	0.004	0.017	-0.011	0.022	-0.014	0.044
89C	07/30/25	0.060	0.253	2.029	0.895	-0.174	0.247	0.004	0.032	-0.003	0.031	0.036	0.052

LOCATION	COLLECTION DATE	Co-60		Zn-65		Nb-95		Zr-95		Ru-103		Ru-106	
		(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)
31	06/18/25	-0.013	0.032	-0.089	0.080	-0.013	0.033	0.043	0.060	-0.021	0.035	-0.031	0.307
31	09/24/25	0.013	0.014	-0.079	0.032	0.020	0.014	-0.010	0.023	0.007	0.015	0.000	0.128
89C	04/24/25	0.019	0.023	-0.050	0.051	-0.006	0.021	-0.033	0.038	0.008	0.023	0.037	0.200
89C	07/30/25	0.024	0.035	-0.060	0.081	-0.022	0.031	-0.022	0.054	0.014	0.032	0.003	0.311

LOCATION	COLLECTION DATE	Ag-110M		Sb-125		I-131		Cs-134		Cs-137		Ac-228	
		(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)
31	06/18/25	-0.036	0.030	0.032	0.082	-0.009	0.051	-0.034	0.034	0.024	0.032	-0.080	0.132
31	09/24/25	0.004	0.013	-0.012	0.039	-0.010	0.026	0.000	0.015	-0.001	0.014	0.028	0.067
89C	04/24/25	-0.022	0.018	-0.033	0.048	0.005	0.054	0.007	0.021	-0.004	0.020	0.043	0.087
89C	07/30/25	0.003	0.028	0.067	0.089	-0.027	0.058	0.000	0.039	-0.002	0.036	-0.011	0.128

C= Control location, Background location
Results in bold type are positive.

TABLE 15
CLAMS
(pCi/g wet wt.)

LOCATION	COLLECTION DATE	Be-7		K-40		Cr-51		Mn-54		Co-58		Fe-59	
		(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)
29	06/04/25	-0.024	0.168	2.068	0.511	-0.185	0.167	0.004	0.021	-0.009	0.020	-0.057	0.046
29	09/29/25	0.077	0.089	2.269	0.312	-0.018	0.095	-0.001	0.010	0.000	0.011	0.006	0.024
31	06/03/25	0.147	0.186	2.476	0.584	-0.030	0.201	-0.009	0.020	-0.020	0.019	0.006	0.039
31	09/30/25	0.024	0.107	2.181	0.334	-0.067	0.122	-0.005	0.012	-0.007	0.012	-0.002	0.028

LOCATION	COLLECTION DATE	Co-60		Zn-65		Nb-95		Zr-95		Ru-103		Ru-106	
		(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)
29	06/04/25	0.011	0.019	-0.036	0.042	0.024	0.020	0.019	0.035	0.003	0.021	0.053	0.190
29	09/29/25	0.010	0.011	-0.026	0.025	0.004	0.010	-0.004	0.019	-0.010	0.011	-0.010	0.087
31	06/03/25	0.010	0.020	-0.079	0.044	0.023	0.020	-0.006	0.036	-0.012	0.023	-0.106	0.183
31	09/30/25	0.002	0.013	-0.008	0.030	0.007	0.013	0.000	0.022	0.007	0.014	-0.029	0.104

LOCATION	COLLECTION DATE	Ag-110M		Sb-125		I-131		Cs-134		Cs-137		Ac-228	
		(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)
29	06/04/25	0.015	0.019	-0.012	0.050	-0.006	0.030	0.006	0.022	-0.003	0.020	-0.030	0.088
29	09/29/25	-0.003	0.009	-0.019	0.024	0.008	0.034	0.006	0.010	0.000	0.009	-0.016	0.046
31	06/03/25	-0.008	0.019	0.029	0.058	0.013	0.038	-0.003	0.022	0.007	0.021	0.025	0.084
31	09/30/25	-0.002	0.011	0.004	0.030	-0.010	0.038	0.006	0.013	-0.006	0.012	0.026	0.057

Results in bold type are positive.

**TABLE 16
LOBSTERS
(pCi/g wet wt.)**

LOCATION	COLLECTION DATE	Be-7		K-40		Cr-51		Mn-54		Co-58		Fe-59	
		(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)
35	05/15/25	0.022	0.151	2.953	0.589	-0.130	0.152	0.009	0.018	-0.010	0.018	0.008	0.038
35	07/29/25	0.175	0.249	3.397	0.788	0.058	0.254	0.029	0.029	-0.002	0.028	0.011	0.058
89C	04/23/25	0.196	0.285	3.090	1.024	0.096	0.296	-0.003	0.030	-0.025	0.034	-0.006	0.071
89C	07/30/25	0.023	0.228	2.521	0.653	0.011	0.240	0.002	0.027	0.004	0.025	-0.040	0.061

LOCATION	COLLECTION DATE	Co-60		Zn-65		Nb-95		Zr-95		Ru-103		Ru-106	
		(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)
35	05/15/25	0.003	0.018	-0.012	0.043	0.007	0.019	-0.013	0.031	0.020	0.020	-0.033	0.149
35	07/29/25	-0.004	0.036	-0.058	0.065	-0.022	0.032	-0.001	0.049	-0.014	0.028	-0.095	0.237
89C	04/23/25	-0.014	0.034	-0.132	0.080	-0.028	0.037	0.013	0.051	0.007	0.032	0.071	0.246
89C	07/30/25	0.008	0.028	-0.083	0.065	0.008	0.028	-0.007	0.048	-0.011	0.029	-0.140	0.236

LOCATION	COLLECTION DATE	Ag-110M		Sb-125		I-131		Cs-134		Cs-137		Ac-228	
		(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)
35	05/15/25	-0.005	0.014	0.023	0.042	0.010	0.042	-0.002	0.018	0.008	0.016	0.047	0.076
35	07/29/25	-0.018	0.026	-0.059	0.070	0.004	0.054	0.001	0.031	0.014	0.027	-0.001	0.126
89C	04/23/25	-0.018	0.033	-0.003	0.095	-0.001	0.052	-0.031	0.036	0.008	0.034	-0.062	0.129
89C	07/30/25	0.007	0.023	0.003	0.067	0.033	0.051	0.012	0.028	-0.002	0.026	0.075	0.105

C= Control Location, Background location
Results in bold type are positive.

4. DISCUSSION OF RESULTS

This section summarizes the results of the analyses on the REMP samples. Station related tritium (H-3) radioactivity was detected in seawater collected at the quarry discharge point. This was within the station boundary. The naturally occurring nuclides of Be-7, K-40, and Ac-228, were detected in some samples. Be-7 is from cosmic radiation. It was observed in fruits, vegetables, air, and broadleaf vegetation samples. K-40 and Ac-228 are two common terrestrial isotopes. K-40 was not seen in well water samples but was observed in other samples. Ac-228 was observed in bottom sediment, soil, and lobster samples. Cs-137 and Sr-90 from atmospheric nuclear weapons testing in the 1960's has been observed in the past. A study by the Connecticut Department of Energy and Environmental Protection in 2006 affirmed that radioactivity from nuclear weapons testing has decreased to almost non-detectable levels (Reference 19). Since 2006 detection of Cs- 137 and Sr-90 in environmental samples has been rare. Cs-137 from nuclear weapons testing was detected above MDC at two locations and at MDC (Minimum Detectable Concentration) at one location in 2025. Based on sample location, it is expected to identify the presence of Cs-137 in undisturbed soil²². The remaining REMP samples obtained during 2025 did not indicate the presence of Cs-137 and the overall trend is decreasing (Figure 4.5-1).

4.1 Gamma Exposure Rate (Table 1)

Gamma exposure rate is determined from the integrated exposure measured over a calendar quarter using TLDs. Prior to 1990, Victoreen CaF₂(Mn) glass bulb dosimeters were used for these measurements. In 1990, these were replaced by Harshaw CaF₂(Mn) chips. In 2000, the CaF₂(Mn) TLDs were replaced with the CaSO₄(Tm) Panasonic model UD-814 AS1 TLDs. Readings are recorded as µR/hr. The unit µR stands for 'micro-roentgen' with a 'micro' being one-millionth of a roentgen. A roentgen is the quantity of radiation equal to 87.6 ergs of energy per gram of air. For gamma exposure a micro-roentgen is equivalent to a micro-rem, a measure of dose to man.

The dosimeters are strategically placed at several onsite locations, as well as at inner and outer offsite locations. Starting in 2001, the collection of TLDs was changed from monthly to quarterly and additional measurement locations were incorporated into the REMP requirements listed in the REMODCM (Reference 8). Three more locations (73-75) were added in mid-2003 to prepare for monitoring the potential effect from the ISFSI. Two dry cask containers were loaded in 2005, three in 2006, three in 2007, three in 2009, three in 2010, four in 2012, six in 2015, five in 2016, three in 2018, seven in 2019, six in 2021, two in 2022, three in 2023, and three in 2024, and one in 2025.

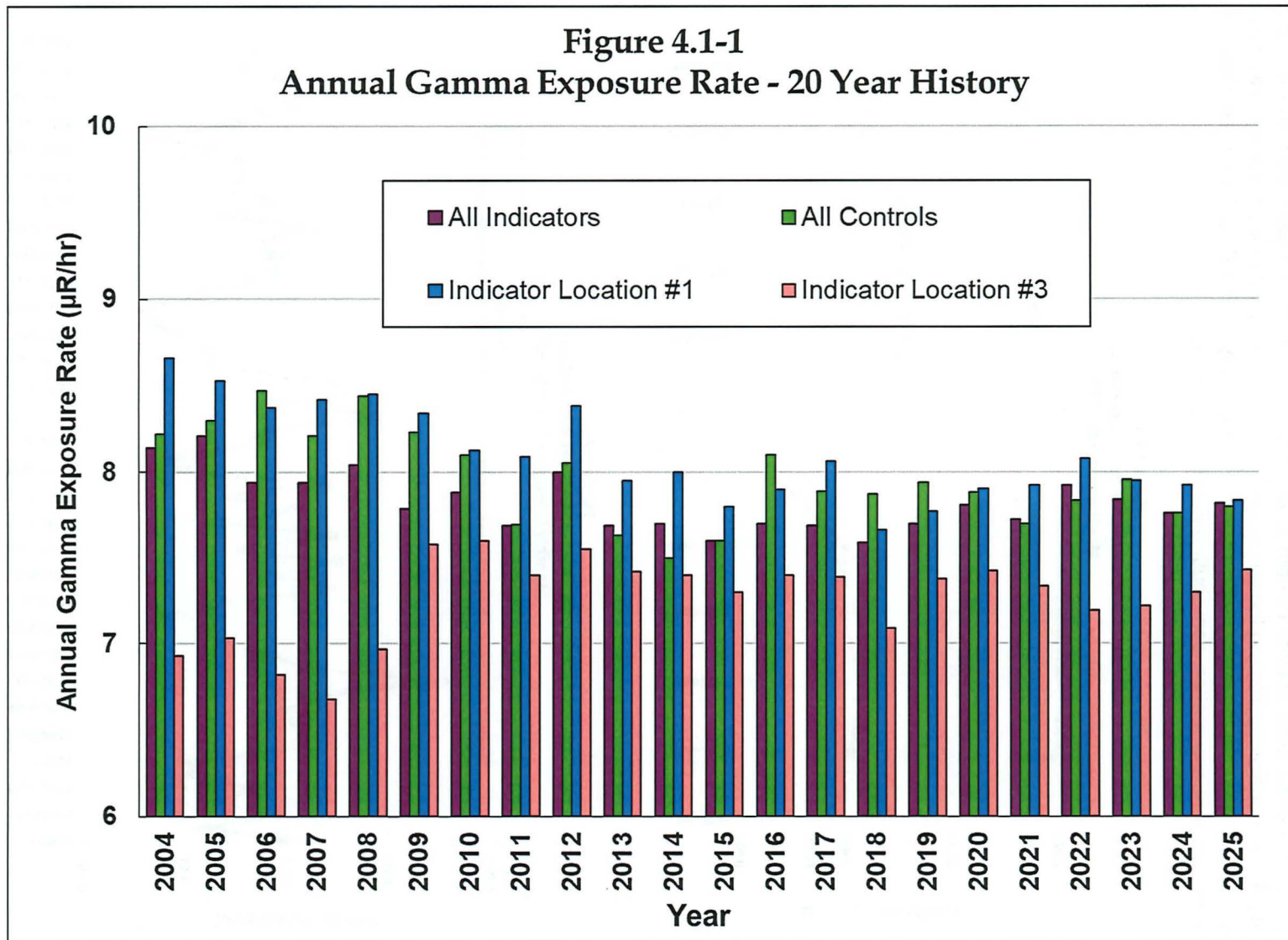
Prior to any cask loading, the background readings average recorded from mid 2003 – 2004 were: 9.5 µR/hour at Location 73, 7.5 µR/hour at Location 74, and 6.9 µR/hour at Location 75.

In 2025, the annual average exposure rate measurement for the ISFSI area was 7.3 µR/hour at Location 73, 7.4 µR/hour at Location 74, and 6.4 µR/hour at Location 75. The station offsite dose from ISFSI for 2025 was 0.03 mrem/year, which is below the 25 mrem/year limit per 40.190 CFR.

Table 1 in Section 3.2 lists the exposure rate measurements for all 43 monitored locations. These measurements demonstrate the general variations in background radiation between the various onsite and offsite locations and include gamma exposure from all sources of radioactivity. For example, the Weather Shack (Location 2), Quarry East (Location 5), Environmental Laboratory (Location 8), Bay Point Beach (Location 9), Goshen Fire Dept (Location 10), and Corey Road (Location 48) experience higher exposure rates due to their proximity to granite beds and stone walls. In addition, the control locations in Mystic, Ledyard, Norwich, and Old Lyme (Location 13C, 14C, 15C, and 16C) had background exposure rates consistent with rates seen in the past years.

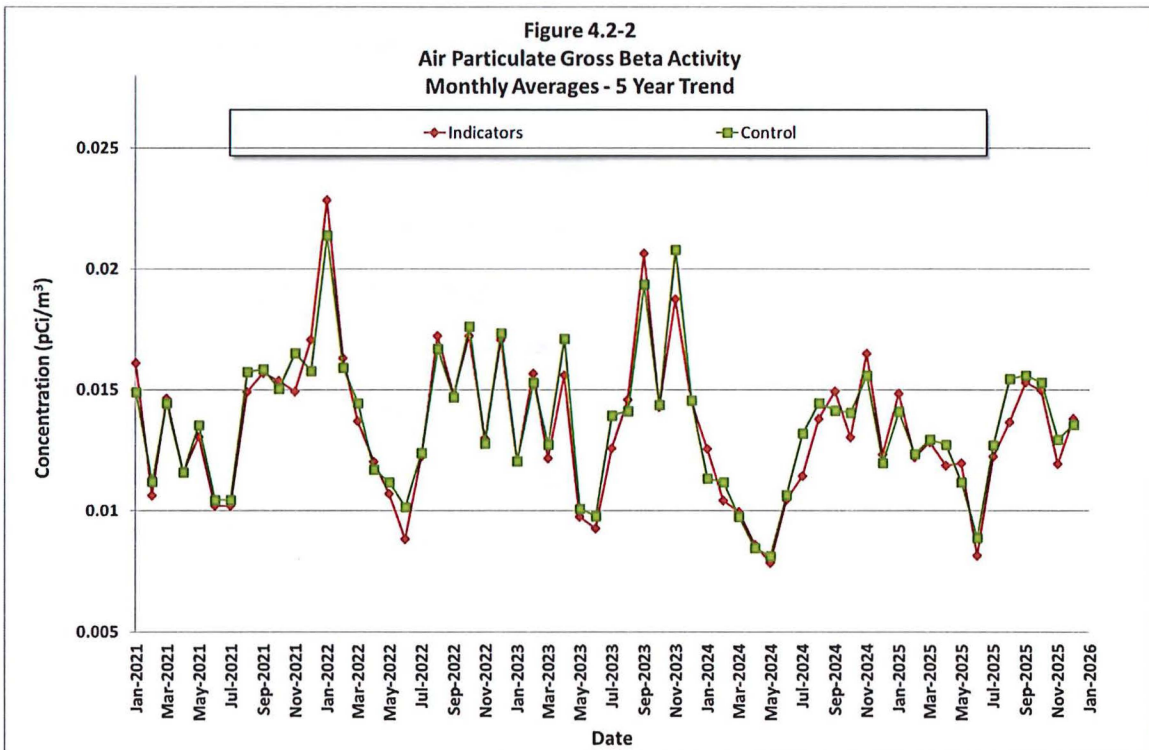
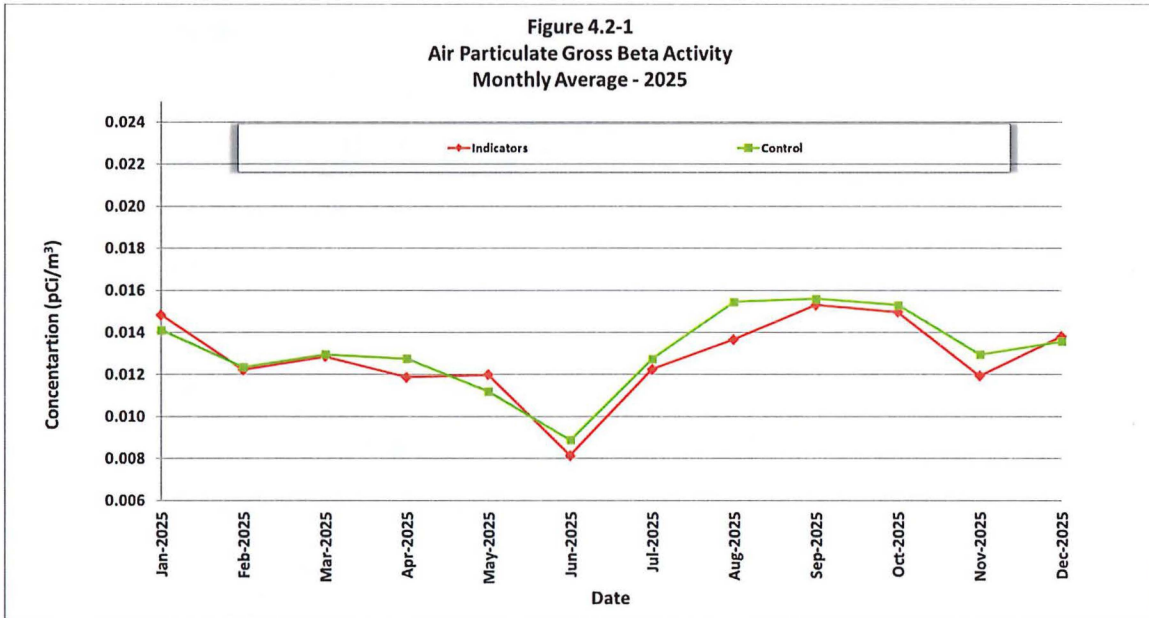
Figure 4.1-1 shows a historical trend of TLD exposure rate measurements, comparing an annual average of all indicator TLDs, an annual average of all control TLDs, and the annual average of the two most critical indicator locations, location 1 and 3, which are used to represent the two closest site boundary residences in the North-northwest and Northeast directions. The average indicator and control readings were both about 7.8 $\mu\text{R}/\text{hour}$.

Figure 4.1-1 also relates the difference in indicator locations 1 and 3 and the annual average of all indicator TLDs to the annual average of the control TLDs collected and measured during coincident periods throughout the year. Locations 1 and 3 are important because they are onsite and located between the plant and nearby populated areas. As discussed earlier, the exposure measurements of many indicator locations onsite (and two of the control locations) are influenced by natural background exposure differences caused by the many granite outcroppings typical of the local area. Figure 4.1-1 shows that the annual average at indicator Location 3 was lower in gamma exposure rate than the average control gamma exposure rate. These differences are the result of the differences in granite at these locations. Location 3 was moved in the second quarter of 2009 to minimize the effect of tree covering for the air sampler also located at this location. The 2000 to 2009 data for Location 3 shows an increase likely attributable to 1-3 $\mu\text{R}/\text{hr}$ gradients observed from the granite bedrock of the MPS Site (Reference 21). Over the last 10 years there has been no notable change in the annual gamma exposure rate (Figure 4.1-1); the small variation in the results for all indicators, including location 1 and locations 3, are expected due to counting statistical variation.



4.2 Air Particulate Gross Beta Radioactivity (Table 2)

Air is continuously sampled at seven inner ring (0 to 2 miles) locations and one control location (14 miles N) by passing it through glass fiber particulate filters. These samples are collected every two weeks and analyzed for gross beta radioactivity. Results are shown on Figure 4.2-1 and Table 2. Gross beta activity remained at levels similar to that seen over the last decade. Indicators and control monitoring locations continue to show no significant variation in measured activities and are within the expected calculated uncertainty of ± 0.002 pCi/m³ (see Figure 4.2-2). This indicates that any station contribution is not measurable.



4.3 Airborne Iodine (Table 3)

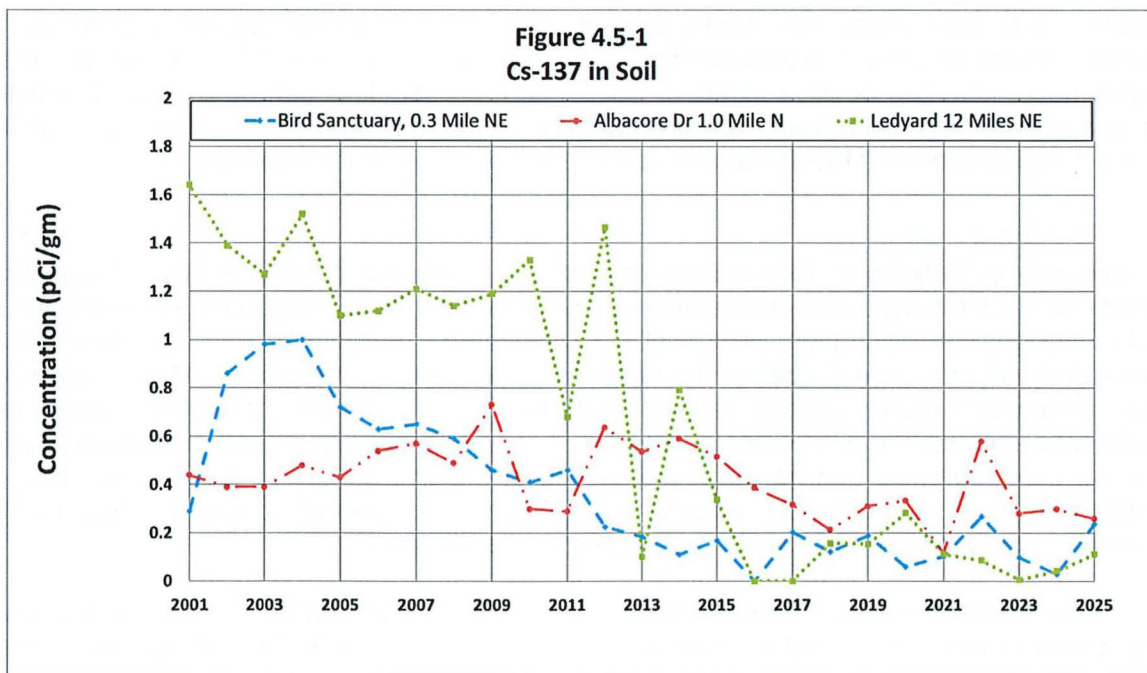
Charcoal cartridges are included at all the air particulate monitoring stations for the collection of atmospheric iodine. These cartridges were analyzed for I-131 every two weeks. No detectable levels of I-131 were seen in the 2025 charcoal samples.

4.4 Air Particulate Gamma (Table 4)

The air particulate samples that are utilized for the gross beta analyses are composited quarterly and analyzed for gamma emitting isotopes including strontium analysis as a substitute for milk analysis. The results, as shown in Table 4, indicate the presence of naturally occurring Be-7, which is produced by cosmic radiation. No other positive results are seen. These analyses indicate that there was not any detectable station related radioactivity in the air samples.

4.5 Soil (Table 5)

Soil samples are collected annually from one control and two indicator locations. MPS has collected and analyzed soil since 2001. Prior to 2001, soil had not been sampled for over fifteen years because station related detectable activity had not been detected. Since 2001 no station detectable activity has been seen in these samples. Naturally occurring nuclides K-40 and Ac-228 were detected in soil. Cs-137 from past nuclear weapons testing was detected slightly above MDC (Minimum Detectable Concentration) in one soil indicator samples in 2025. The results of these samples allow for the determination of baseline activity levels in soil. This is particularly important for Cs-137 since significant levels from past weapons testing fallout remain in the soil. Figure 4.5-1 shows the trend of Cs-137 in soil samples, the trend appears to be declining with time with an expected counting statistical variation observed over the last 15 years. Baseline levels should be useful in the future when site characterization and decommissioning of the station become the focus during preparations for license termination.



4.6 Milk (Table 6)

Each year the Land Use Census is used to identify locations of milk animals that should be included in the monitoring program. It is performed annually and is maintained by observations, door-to-door surveys, and consulting with local agriculture authorities. The 2025 census is listed in Appendix A. If a new dairy farm is identified close enough to MPS to be considered an indicator location, the collection of milk at that location would be added.

In 2025, the Land Use Census did not locate any location of commercial milk farms within 10 miles of Millstone Power Station. Prior to 2018, milk samples were obtained and analyzed for strontium from a farm that is no longer producing milk. A valid substitute for milk analysis is air filters strontium analysis and gamma analysis of broadleaf vegetation. This strontium analysis of air filter was determined to be more effective than milk analysis, (Reference 23). The air sampling stations are located closer to the plant and in the predominant downwind direction.

4.7 Well Water (Table 7)

All REMP wells samples including ISFSI wells samples were less than the Lower Level of Detection Limit (LLD). Additional samples from other wells were obtained as part of the Groundwater Protection Program (GWPP). Results from the GWPP are reported in the MPS annual "Radioactive Effluent Release Report" for 2025. ISFSI wells results have been documented in Table 7 as required by the Connecticut Siting Council.

4.8 Fruits and Vegetables (Table 8)

Consistent with past years, this media did not show any station effects. Naturally occurring nuclides Be-7 and K-40 were the only isotopes detected in the samples.

4.9 Broad Leaf Vegetation (Table 9)

Consistent with past years, this media did not show any station effects. Most samples had detectable levels of cosmic produced Be-7 and naturally occurring K-40. Occasionally these samples have indicated positive levels of Cs-137 in the past. This can be attributed to fallout from weapons testing which has been widespread in terrestrial samples for many years. Cs-137 was not detected in any of the 2025 collected Broad Leaf Vegetation samples.

4.10 Seawater (Table 10)

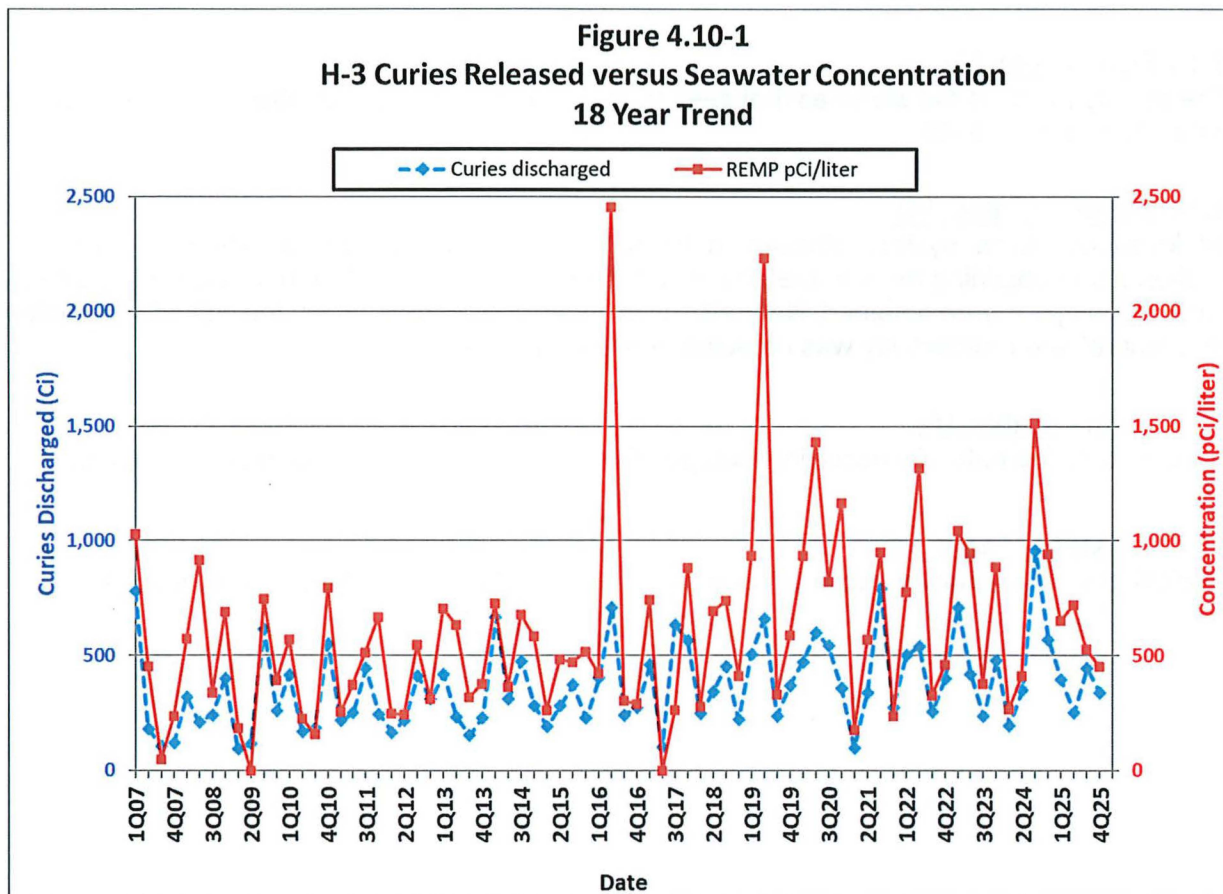
The guidance in Reference 15 specifies one sample upstream (control – beyond significant influence of the discharge) and one sample downstream (indicator – beyond but near the mixing zone) for surface water samples. Historically the downstream sample for MPS has been located in the vicinity of discharge (Location 32) which is prior to the mixing zone. This location was chosen since it was readily accessible and not affected by cold weather conditions. Operation of an automatic sampler at the indicator location is necessary for providing a representative sample. Any dose consequences can be assessed by use of the appropriate dilution factors. It is not necessary to have a continuous sampler at the control location due to the historical relative consistency noted in seawater background activity near Millstone.

A technician collects an aliquot from the automatic sampler at Location 32 on a weekly frequency. These samples are composited for monthly analyses. For the Control Location, Giant's Neck (Location 37C), six weekly grab samples are obtained for quarterly compositing.

Naturally occurring K-40 was the only detectable gamma activity seen in these samples. Measured station related levels of H-3, beta activity, in seawater from the vicinity of discharge (Location 32) were observed in most samples. Tritium releases are typically higher near outages due to the need for increased liquid processing during these times. As mentioned above, these

samples are taken directly from liquid effluent flow prior to dilution into the Long Island Sound.

Tritium builds up in the reactor coolant during each fuel cycle. It is generated during station operation from fission and neutron reactions. Figure 4.10-1 shows an eighteen-year trend of Tritium (H-3) releases in the MPS liquid effluents versus the measured environmental concentrations from the vicinity of discharge location. In 2025 MPS had one outage requiring the processing and subsequent discharge of processed refueling water. The highest quarterly average H-3 value in 2025 for seawater was 717 pCi/l, which is well below the drinking water limit established by the Environmental Protection Agency (EPA) of 20,000 pCi/l. The total annual exposure from the liquid discharge pathway for 2025 was 0.001 mrem/yr.



4.11 Bottom Sediment (Table 11)

There was no station related radioactivity detected in bottom sediment samples in 2025. Naturally occurring K-40 was seen in all samples and naturally occurring Ac-228 in some samples. Bottom sediment is not a significant dose pathway to man, especially at areas not typically used by the public.

4.12 Aquatic Flora (Table 12)

Aquatic flora is a sensitive indicator of low levels of man-made radioactivity (e.g., Mn-54, Co- 58, Co-60, Zn-65, I-131 and Ag-110m) in the environment, therefore, it was added as a required sample at four locations in revision 28 of the REMODCM. Naturally occurring K-40 was the only isotope detected in the samples.

4.13 Fish (Table 13)

The activity in fish is the same as that seen in the past. No activity was observed except for the naturally occurring K-40.

4.14 Oysters (Table 14)

All locations utilize oysters stocked in trays. Oyster sampling has occasionally presented challenges in obtaining the sample size required for analysis. In 2025 four adequately sized for analysis samples were obtained. Naturally occurring K-40 was detected in the collected samples. No plant related radioactivity was detected in oysters in 2025.

4.15 Clams (Table 15)

In 2025, only the naturally occurring isotope, K-40, was detected in the collected samples.

4.16 Lobsters (Table 16)

In 2025, only the naturally occurring isotope, K-40, was detected in the collected samples.

5. REFERENCES

- 1) United States of America, Code of Federal Regulations, Title 10, Part 50, Appendix A Criteria 64.
- 2) Donald T. Oakley, "Natural Radiation Exposure in the United States," U.S. Environmental Protection Agency, ORP/SID 72-1, June 1972.
- 3) National Council on Radiation Protection and Measurements, Report No. 160, "Ionizing Radiation Exposures of the Population of the United States," March 2009.
- 4) National Council on Radiation Protection and Measurements, Report No. 94, "Exposure of the Population of the United States and Canada from Natural Background Radiation," December 1987.
- 5) United States Nuclear Regulatory Commission, Regulatory Guide 8.29, "Instructions Concerning Risks from Occupational Radiation Exposure," Revision 0, July 1981.
- 6) United States of America, Code of Federal Regulations, Title 10, Part 20.1302.
- 7) United States Nuclear Regulatory Commission, Regulatory Guide 1.109, "Calculation of Annual Doses to Man from Routine Releases of Reactor Effluents for the Purpose of Evaluating Compliance with 10 CFR Part 50, Appendix I," Revision 1, October 1977.
- 8) Millstone Power Station Radiological Effluent Monitoring and Offsite Dose Calculation Manual, Revision 30, September 19, 2018
- 9) Millstone Power Station Unit 1 Defueled Technical Specifications, License No. DPR-21.
- 10) Millstone Power Station Unit 2 Technical Specifications, License No. DPR-65.
- 11) Millstone Power Station Unit 3 Technical Specifications, License No. NPF-49.
- 12) United States Nuclear Regulatory Commission, Regulatory Guide 4.1, "Program for Monitoring Radioactivity in the Environs of Nuclear Power Plants," Rev. 1, April 1975.
- 13) ICN/TracerLab, "Millstone Power Station Pre-Operational Environmental Radiation Survey Program, Quarterly Reports," April 1967 to June 1970.
- 14) International Commission of Radiological Protection, Publication No.43, "Principles of Monitoring for the Radiation Protection of the Population," May 1984.
- 15) United States Nuclear Regulatory Commission, NUREG-1301, "Offsite Dose Calculation Manual Guidance: Standard Radiological Effluent Controls for Pressurized Water Reactors," April 1991.
- 16) United States Nuclear Regulatory Commission, Branch Technical Position, "An Acceptable Radiological Environmental Monitoring Program", Rev. 1, November 1979.
- 17) Reassessment of Millstone Power Station's Environmental Monitoring Data, Connecticut Department of Environmental Protection, Division of Radiation, March 2006.
- 18) Nuclear Regulatory Commission Regulatory Guide 4.1, Radiological Environmental Monitoring for Nuclear Power Plants, Revision 2, June 2009.
- 19) Division of Radiation, CT Dept. of Energy and Environmental Protection, "Reassessment of Millstone Power Station's Environmental Monitoring Data," January 2006.
- 20) Connecticut Sitting Council Decision and Order for ISFSI, Docket No. 265, May 27, 2004.
- 21) RP-16-08, "Take-Home Thermoluminescent Dosimeter Variance", June 17, 2016.
- 22) MP-HPO-98137, "Determination of Cs-137 In Undisturbed Soil At Locations Greater Than 10 Miles From Millstone Site", July 28, 1998.
- 23) MP-HPO-17067, "Milk Availability for the Radiological Environmental Monitoring Program", October 11, 2017.

APPENDIX A

LAND USE CENSUS FOR 2025

The annual land use census in the vicinity of MPS was conducted as required by the MPS REMODCM. Table A-1 is a list of closest residents in each of twelve over-land compass sectors around Millstone. The list of residents was determined by a survey of properties around Millstone using Google Earth and verified by a field survey. It was assumed that the closest resident was also the closest garden. No changes from the 2024 closest resident list were identified.

Table A-2 is a list of milk and other foods within ten miles of Millstone. Cow and goat milk producers were identified using the State of Connecticut Agriculture Department list of licensees and using American Dairy Goat Association (ADGA). There were no animals producing milk located within ten miles of Millstone Power Station. As a substitute for milk samples, strontium analysis of air filter and gamma analysis of broadleaf vegetation are being performed on quarterly basis.

Other sources of food were obtained from the Internet at <http://www.farmfresh.org> by searching for businesses closest to Waterford, CT. A search using Google Earth and field surveys were used to identify additional sources, Figure A-1. No changes from the 2024 sources of food locations were identified.

The 2025 Land Use Census also evaluated aquatic sampling exposure pathways from the fish and shellfish located around MPS. Figure A-2 shows shellfish beds around MPS from the Bureau of Aquaculture of the Department of Agriculture. The saltwater fishing areas are identified in Figure A-3. No changes from the 2024 aquatic sampling exposure pathways were identified.

The dose modeling incorporates the distances listed in Tables A-1, A-2.

Table A-1
 2025 Survey

Downwind Direction	Resident/Garden ¹	
	miles	meters
N	0.95	1,529
NNE	0.53	853
NE	0.47	756
ENE	0.50	805
E	0.92	1,481
ESE	1.06	1,706
SE ²	N/A	N/A
SSE ²	N/A	N/A
S ²	N/A	N/A
SSW ²	N/A	N/A
SW	2.28	3,669
WSW	1.95	3,138
W	1.78	2,865
WNW	1.51	2,430
NW	1.35	2,173
NNW	0.51	821

Notes:

1. No gardens located closer than resident.
2. Sectors SE thru SSW are N/A because they are over water.

Table A-2
 Dairy and food producers within Ten miles of Millstone - 2025

<u>Sector</u>	<u>Miles</u>	<u>Business</u>	<u>Location</u>	<u>Comments</u>
NW	1.95	Smith's Acres	Niantic	Fruits and vegetables
NE	1.96	Mingo Goat	Waterford	Registered ADGA member only, no goats on site.
ENE	2.8	Secchiaroli Farms	Waterford	Has pigs, fed nonlocal sources and have concrete pens
N	3.2	Scotts' Farm & Garden	Waterford	Fruits and vegetables
WNW	5.0	Four Mile River Farm	Old Lyme	Eggs, Meat
NW	5.2	Scott's Yankee Farmer	East Lyme	Fruits, vegetables, and cider
NNW	5.3	White Gate Farm	East Lyme	Vegetables, Herbs, Eggs, Meat, Nursery, and Flowers
ENE	6.8	Leverett Goat	Groton	Registered ADGA member only, no goats on site.
N	7.4	Hunts Brook Farm	Quaker Hill	Honey, Maple, and Vegetables
ENE	7.5	Groton Family Farm	Groton	Vegetables, Honey, Maple, and Eggs
NE	8.3	Red Fence Farm	Groton	Fruits, vegetables, cows, and pigs. Cows not producing milk
N	9.2	Valchris Farm	Oakdale	Organic Fruits & Vegetables

Table A-3
 Current Sampling Locations for Vegetation - 2025

<u>No.</u>	<u>Description</u>	<u>Farm Name</u>	<u>City</u>	<u>Sample Type</u>
25-I	Indicator Within 10 Miles	Red Fence Farm	Groton	Vegetation
25-X	Extra Within 10 Miles	Scotts' Farm & Garden	Waterford	Vegetation
26-C	Control Beyond 10 Miles	Scott's Orchard Farm Market	Old Saybrook	Vegetation
26-X	Extra Beyond 10 Miles	Scott's Orchard Farm Market	Old Saybrook	Vegetation
		Scott's Farm & Greenhouses	Essex	

Figure A-1
Farms and Goats Products within ten miles of Millstone

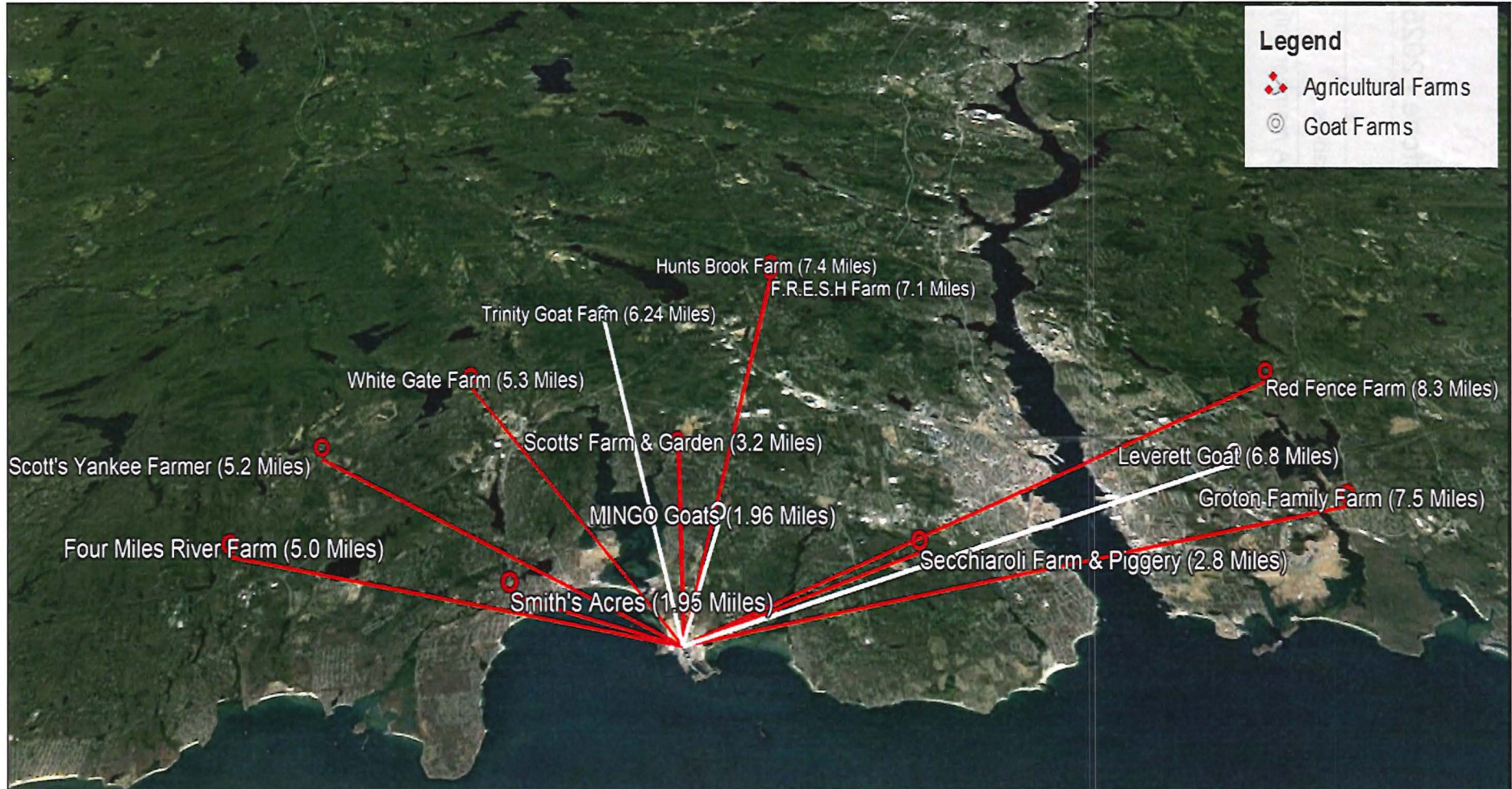
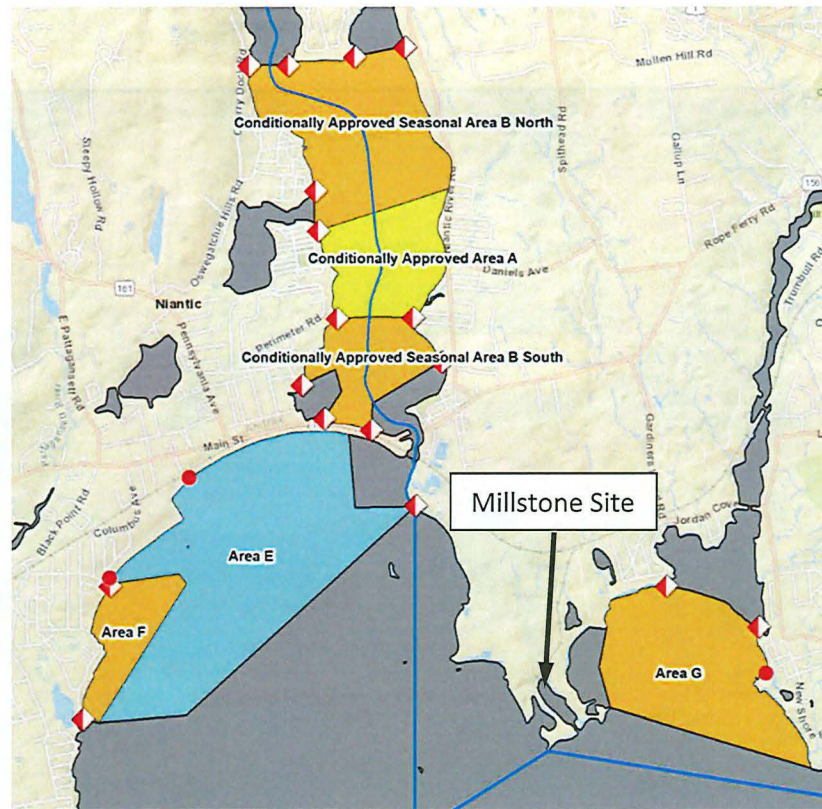


Figure A-2
 Shellfish Beds in Vicinity of Millstone



Niantic Recreational Shellfishing Beds

Waterford-East Lyme Shellfish Commission

Areas are Conditionally Approved and are subject to closure.
 Permit is required.

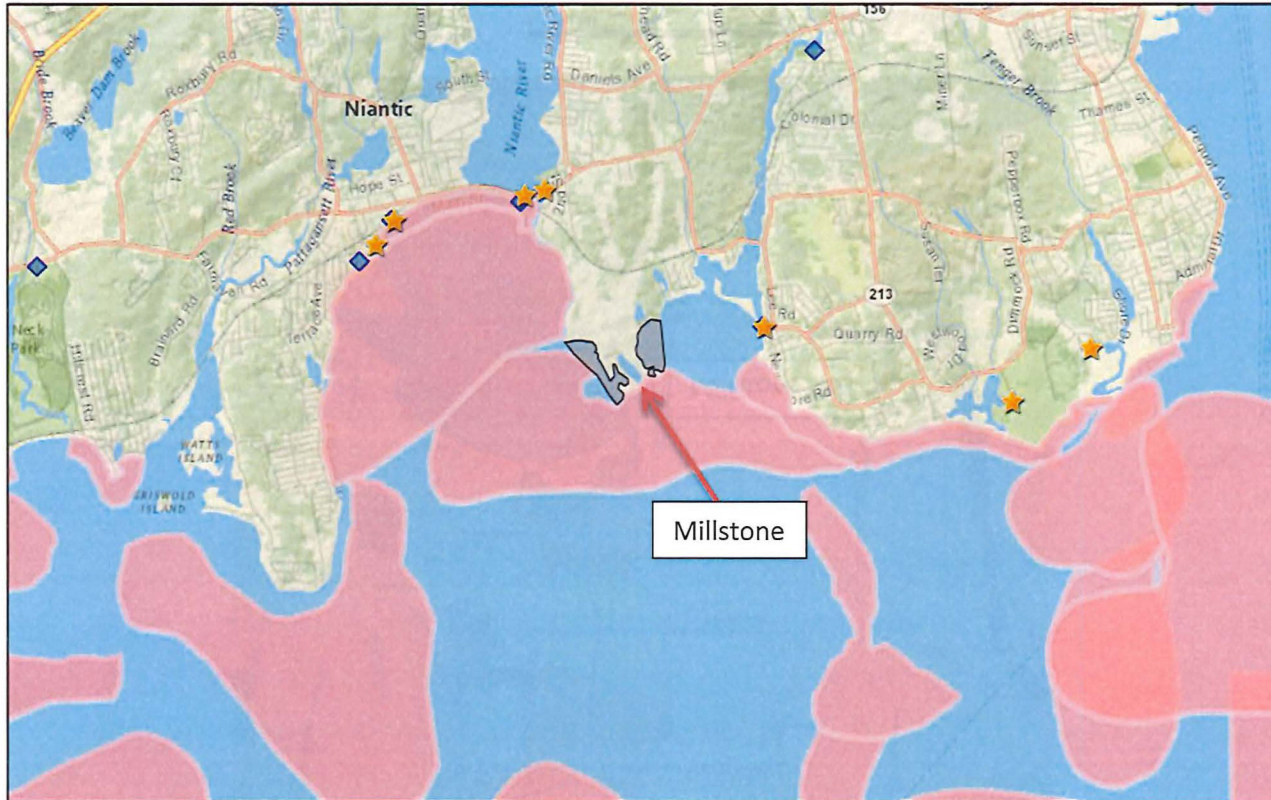
The commission will advise the public of area opening or closures by the following methods:
 1. Calling the shellfish info line 860-444-5812 will advise the status.
 2. Status signal disks located at the Hole in the Wall Beach for area "E" and Crescent Beach for area "F"



- Shellfish Classification Area**
- Demarcation Sign
 - Status Signs: Open/Closed
 - Town_Line
 - Closed_for_Recreational_Shellfishing
- CT_Recreational_Beds**
- Approved
 - Conditionally Approved
 - Conditionally Approved Seasonal

Figure A-3
Saltwater Fishing Resource Map

Saltwater Fishing Resource Map



9/23/2025, 2:33:17 PM

Security Exclusion



Enhanced Opportunity Shore Fishing Sites



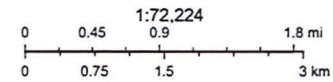
Crabbing Access



Popular Places to Fish



Popular Places to Fish - Not Selected



National Geographic, Esri, Garmin, HERE, UNEP-WCMC, USGS, NASA, ESA, METI, NRCAN, GEBCO, NOAA, increment P Corp.

CTDEEP, Marine Fisheries Division

National Geographic, Esri, Garmin, HERE, UNEP-WCMC, USGS, NASA, ESA, METI, NRCAN, GEBCO, NOAA, increment P Corp. |

APPENDIX B

SUMMARY OF INTERLABORATORY COMPARISONS

Summary of Results – Inter-laboratory Comparison Program (ICP)

The Teledyne Brown Engineering Environmental Services (TBE-ES) laboratory analyzed Performance Evaluation (PE) samples of air particulate (AP), milk, soil, vegetation, and water matrices that represent test and matrix combinations available for REMP programs. The PE samples supplied by Eckert & Ziegler (E&Z) Analytics Inc., Environmental Resource Associates (ERA), and Department of Energy (DOE) Mixed Analyte Performance Evaluation Program (MAPEP), were evaluated against the following pre-set acceptance criteria:

A. E&Z Analytics Evaluation Criteria

Analytics' evaluation report provides a ratio of TBE's result and E&Z Analytics' known value. Since flag values are not assigned by E&Z Analytics, TBE evaluates the reported ratios based on internal QC requirements based on the DOE MAPEP criteria.

- A = Acceptable - reported result falls within ratio limits of 0.80-1.20
- W = Acceptable with warning - reported result falls within 0.70-0.80 or 1.20-1.30
- N = Not Acceptable - reported result falls outside the ratio limits of < 0.70 and > 1.30

B. ERA Evaluation Criteria

ERA's evaluation report provides an acceptance range for control and warning limits with associated flag values. ERA's acceptance limits are established per the US EPA, National Environmental Laboratory Accreditation Conference (NELAC), state-specific Performance Testing (PT) program requirements or ERA's SOP for the Generation of Performance Acceptance Limits, as applicable. The acceptance limits are either determined by a regression equation specific to each analyte or a fixed percentage limit promulgated under the appropriate regulatory document.

- A = Acceptable - Reported value falls within the Acceptance Limits
- N = Not Acceptable - Reported value falls outside of the Acceptance Limits

C. DOE Evaluation Criteria

MAPEP's evaluation report provides an acceptance range with associated flag values. MAPEP defines three levels of performance:

- Acceptable (flag = "A") - result within $\pm 20\%$ of the reference value
- Acceptable with Warning (flag = "W") - result falls in the $\pm 20\%$ to $\pm 30\%$ of the reference value
- Not Acceptable (flag = "N") - bias is greater than 30% of the reference value

Note: The Department of Energy (DOE) Mixed Analyte Performance Evaluation Program (MAPEP) samples are created to mimic conditions found at DOE sites which do not always resemble typical environmental samples obtained at commercial nuclear power facilities.

The Inter-Laboratory Comparison Program provides evidence of "in control" counting systems and methods, and that the laboratories are producing accurate and reliable data. For the TBE laboratory, 157 out of 164 analyses performed met the specified acceptance criteria. Seven analyses did not meet the specified acceptance criteria and were addressed through the TBE Corrective Action Program. A summary is found below:

1. NCR 25-04: MAPEP 25, RdV52 vegetation study for Sr-90 evaluated as "Not Acceptable." Possible sample interference issue. Study results stated 8 out of 18 participants passed the study. All internal data reviewed and deemed accurate with internal quality control measures for sample also passing. The laboratory performed testing with Sr-85 spike with successful outcomes. The following provider study, RdV53, returned with passing results.
2. NCR 25-05: Interlaboratory crosscheck failure: MAPEP 25-MaS52 Ni-63 in soil. A manual data entry error in the carrier volume for one nuclide/matrix led to an incorrect LIMS value. Manual verification showed that the crosscheck would have passed with the correct volume. The procedure has been revised with more prominent notation to assist technicians. No recurrence identified and the following crosscheck study did not result in repeated error supporting effectiveness of corrective action.
3. NCR 25-06: Interlaboratory crosscheck failure: ERA RAD141 Gr-A in water. The provider's acceptance range was 10.0–21.2, and their reported value of 15.6 fell within this interval. TBE ES obtained 22.2 ± 3.76 , which satisfied internal QC criteria and would have aligned with the acceptance range if error margins had been considered. The QC duplicate result of 17.8 met internal requirements, and the 22% RPD demonstrated internal consistency. The provider's Gr A samples have historically been the lowest spiked. No internal failures identified so no corrective action deemed necessary. The following ERA RAD143 study's performance evaluation results returned acceptable/passing.
4. NCR 25-10: IN-PROGRESS Interlaboratory crosscheck failure: ERA MRAD 43, PU-239/240 (AS) in Air Particulate (filter).
5. NCR 25-11: Interlaboratory crosscheck failure: ERA RAD-143 crosscheck failure of Uranium in water. Provider acceptance range: 48.0 – 60.0. TBE-ES result of 47.1 with internal acceptance ratio of 87.2 and no prior failures. No corrective action deemed necessary.
6. NCR 25-12: IN-PROGRESS Interlaboratory crosscheck failure: MAPEP Series 53, Ni-63 in Soil.
7. NCR 25-13: IN-PROGRESS Interlaboratory crosscheck failure: MAPEP Series 53, Th-232 in Soil.

The Inter-Laboratory Comparison Program provides evidence of "in control" counting systems and methods, and that the laboratories are producing accurate and reliable data.

DOE Mixed Analyte Performance Evaluation Program (MAPEP)

Teledyne Brown Engineering - Environmental Services

Month/Year	Identification Number	Matrix	Nuclide	Units	TBE Reported Value	Known Value ^(a)	Acceptance Range	Acceptance Ratio (%)	Evaluation ^(b)
Mar 2025	25-MaS52	Soil	Ni-63	Bq/kg	964	1560	1092-2028	61.8	N ⁽¹⁾
Mar 2025	25-MaS52	Soil	Tc-99	Bq/kg	659	725	508-943	90.9	A
Mar 2025	25-MaS52	Soil	Th-228	Bq/kg	44.3	44.4	31.1-57.7	99.8	A
Mar 2025	25-MaS52	Soil	Th-230	Bq/kg	46.4	47	32.9-61.1	98.7	A
Mar 2025	25-MaS52	Soil	Th-232	Bq/kg	39.9	41.4	29.0-53.8	96.4	A
Mar 2025	25-MaSU52	Urine	Cs-134	Bq/L	-0.0104		False Positive	N/A	A
Mar 2025	25-MaSU52	Urine	Cs-137	Bq/L	0.497	0.608	0.426-0.490	81.7	A
Mar 2025	25-MaSU52	Urine	Co-57	Bq/L	0.0472		False Positive	N/A	A
Mar 2025	25-MaSU52	Urine	Co-60	Bq/L	0.104	0.0765	Sensitivity Eval	N/A	A
Mar 2025	25-MaSU52	Urine	Mn-54	Bq/L	0.0365		False Positive	N/A	A
Mar 2025	25-MaSU52	Urine	U-234	Bq/L	0.0963	0.105	0.074-0.137	91.7	A
Mar 2025	25-MaSU52	Urine	U-238	Bq/L	0.108	0.109	0.076-0.142	99.1	A
Mar 2025	25-MaSU52	Urine	Zn-65	Bq/L	-0.278		False Positive	N/A	A
Mar 2025	25-MaW52	Water	Ni-63	Bq/L	37.3	38.9	27.2-50.6	95.9	A
Mar 2025	25-MaW52	Water	Tc-99	Bq/L	6.64	6.34	4.44-8.24	104.7	A
Mar 2025	25-RdV52	Vegetation	Cs-134	Bq/sample	0.0452		False Positive	N/A	A
Mar 2025	25-RdV52	Vegetation	Cs-137	Bq/sample	0.558	0.707	0.495-0.919	78.9	W
Mar 2025	25-RdV52	Vegetation	Co-57	Bq/sample	2.86	3.40	2.38-4.42	84.1	A
Mar 2025	25-RdV52	Vegetation	Co-60	Bq/sample	0.0284		False Positive	N/A	A
Mar 2025	25-RdV52	Vegetation	Mn-54	Bq/sample	2.22	2.72	1.90-3.54	81.6	A
Mar 2025	25-RdV52	Vegetation	Sr-90	Bq/sample	0.222	0.370	0.259-0.481	60.0	N ⁽²⁾
Mar 2025	25-RdV52	Vegetation	Zn-65	Bq/sample	1.5	1.87	1.31-2.43	80.2	A
Mar 2025	25-RdV52 (R)	Vegetation	Sr-90	Bq/sample	0.356	0.370	0.259-0.481	96.2	A
Mar 2025	25-RdV52 (R)	Vegetation	Sr-90	Bq/sample	0.4	0.370	0.259-0.481	108.1	A
Sep 2025	25-MaS53	Soil	Ni-63	Bq/kg	865	1474	1032-1916	58.7	N ⁽³⁾
Sep 2025	25-MaS53	Soil	Tc-99	Bq/kg	314	370	259-481	84.9	A
Sep 2025	25-MaS53	Soil	Th-228	Bq/kg	51.2	41.7	29.2-54.2	123	W
Sep 2025	25-MaS53	Soil	Th-230	Bq/kg	54.8	45.6	31.9-59.3	120	W
Sep 2025	25-MaS53	Soil	Th-232	Bq/kg	50.4	38.7	27.1-50.3	130	N ⁽⁴⁾
Sep 2025	25-MaW53	Water	Ni-63	Bq/L	23.0	25.0	17.5-32.5	92	A
Sep 2025	25-MaW53	Water	Tc-99	Bq/L	0.17		False Pos	N/A	A
Sep 2025	25-RdV53	Vegetation	Cs-134	Bq/sample	0.1051		False Pos	N/A	A
Sep 2025	25-RdV53	Vegetation	Cs-137	Bq/sample	0.9581	0.986	0.69-1.282	97	A
Sep 2025	25-RdV53	Vegetation	Co-57	Bq/sample	4.54	4.47	3.13-5.81	102	A
Sep 2025	25-RdV53	Vegetation	Co-60	Bq/sample	2.08	2.3	1.61-2.99	90	A
Sep 2025	25-RdV53	Vegetation	Mn-54	Bq/sample	2.64	3.1	2.17-4.03	85	A
Sep 2025	25-RdV53	Vegetation	Sr-90	Bq/sample	1.5	1.43	1.00-1.86	105	A
Sep 2025	25-RdV53	Vegetation	Zn-65	Bq/sample	8.39	9.29	6.50-12.08	90	A

KEY

(a) The MAPEP known value is equal to 100% of the parameter present in the standard as determined by gravimetric and/or volumetric measurements made during standard preparation.

(b) DOE/MAPEP evaluation:

A = Acceptable - reported result falls within ratio limits of 0.80-1.20

W = Acceptable with warning - reported result falls within 0.70-0.80 or 1.20-1.30

N = Not Acceptable - reported result falls outside the ratio limits of < 0.70 and > 1.30

Results Flags:

A = Result acceptable.....|Bias| <= 20%

W = Result acceptable with warning.....20% < |Bias| <= 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

NOT ACCEPTABLE.....RP < 2%

ACCEPTABLE.....2% <= RP <= 15%

ACCEPTABLE WITH WARNING.....15% < RP <= 30%

NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

N⁽¹⁾ = NCR 25-05

N⁽²⁾ = NCR 25-04

(R) = Additional Study for N⁽²⁾ failure

N⁽³⁾ = NCR 25-12

N⁽⁴⁾ = NCR 25-13

ERA
Environmental Radioactivity Crosscheck Program
Teledyne Brown Engineering - Environmental Services

Month Year	Identification Number	Matrix	Nuclide	Units	TBE Reported Value	Known Value ^(a)	Acceptance Range	Acceptance Ratio (%)	Evaluation ^(b)
Mar 2025	MRAD-42	Soil	Am-241	pCi/kg	955	1060	572-1500	90.1	A
Mar 2025	MRAD-42	Soil	Pu-238	pCi/kg	1010	1070	534-1630	94.4	A
Mar 2025	MRAD-42	Soil	Pu-239	pCi/kg	1020	1150	627-1650	88.7	A
Mar 2025	MRAD-42	Soil	Sr-90	pCi/kg	3540	5710	1780-8890	62.0	A
Mar 2025	MRAD-42	Soil	U-234	pCi/kg	3598	3500	1640-4590	103	A
Mar 2025	MRAD-42	Soil	U-238	pCi/kg	3857	3470	1900-4660	111	A
Mar 2025	MRAD-42	AP	Am-241	pCi/Filter	73.5	67.7	48.3-90.3	109	A
Mar 2025	MRAD-42	AP	Fe-55	pCi/Filter	224	181	66.1-289	124	A
Mar 2025	MRAD-42	AP	Pu-238	pCi/Filter	41.7	40.2	30.4-49.4	104	A
Mar 2025	MRAD-42	AP	Pu-239	pCi/Filter	64.5	62.3	46.6-75.2	104	A
Mar 2025	MRAD-42	AP	U-234	pCi/Filter	30.8	34.2	25.4-40.1	90.1	A
Mar 2025	MRAD-42	AP	U-238	pCi/Filter	29.4	33.9	25.6-40.4	86.7	A
Mar 2025	MRAD-42	AP	Gr-A (Th-230)	pCi/Filter	44.8	39.5	20.6-65.1	113	A
Mar 2025	MRAD-42	AP	Gr-B (Cs-137)	pCi/Filter	62.6	55.2	33.5-83.4	113	A
Mar 2025	MRAD-42	Water	Am-241	pCi/L	40.5	39.5	27.1-50.5	103	A
Mar 2025	MRAD-42	Water	Fe-55	pCi/L	892.6	1460	858-2120	61.1	A
Mar 2025	MRAD-42	Water	Pu-238	pCi/L	74.9	77.2	46.4-100	97.0	A
Mar 2025	MRAD-42	Water	Pu-239	pCi/L	59.2	58.4	36.1-72.0	101	A
Apr 2025	RAD-141	Water	Ba-133	pCi/L	42.7	48.3	34.3-62.3	88.4	A
Apr 2025	RAD-141	Water	Cs-134	pCi/L	19.5	16.5	5.65-27.4	118	A
Apr 2025	RAD-141	Water	Cs-137	pCi/L	47.3	50.8	27.3-74.3	93.1	A
Apr 2025	RAD-141	Water	Co-60	pCi/L	99.2	104	84.4-124	95.4	A
Apr 2025	RAD-141	Water	Zn-65	pCi/L	317	341	279-403	93.0	A
Apr 2025	RAD-141	Water	GR-A	pCi/L	22.2	15.6	10.0-21.2	142.3	N ⁽²⁾
Apr 2025	RAD-141	Water	GR-B	pCi/L	21.6	22.9	15.0-30.8	94.3	A
Apr 2025	RAD-141	Water	H-3	pCi/L	19900	21200	18200-24200	93.9	A
Apr 2025	RAD-141	Water	I-131 (Low Level)	pCi/L	26.1	26.8	23.2-30.4	97.4	A
Apr 2025	RAD-141	Water	Sr-89	pCi/L	70.8	67.1	51.2-83.0	106	A
Apr 2025	RAD-141	Water	Sr-90	pCi/L	22.5	23.9	19.7-28.1	94.1	A
Apr 2025	RAD-141	Water	U (Total)	pCi/L	48.0	49.6	44.0-55.2	96.8	A
Sept 2025	MRAD-43	Soil	Sr-90	pCi/kg	6790	9490	2950-14800	71.5	A
Sept 2025	MRAD-43	AP	Am-241	pCi/Filter	40.2	39.8	28.4-53.1	101	A
Sept 2025	MRAD-43	AP	Fe-55	pCi/Filter	125	166	60.6-265	75.3	A
Sept 2025	MRAD-43	AP	Pu-238	pCi/Filter	26	15.1	11.4-18.6	172	N ⁽³⁾
Sept 2025	MRAD-43	AP	U-234	pCi/Filter	57.7	63.4	47.0-74.3	91.0	A
Sept 2025	MRAD-43	AP	U-238	pCi/Filter	63.1	62.9	47.5-75.0	100	A
Sept 2025	MRAD-43	AP	Gr-A (Th-230)	pCi/Filter	28.2	22	11.5-36.2	128	A
Sept 2025	MRAD-43	AP	Gr-B (Cs-137)	pCi/Filter	38.6	40.5	24.6-61.2	95.3	A
Sept 2025	MRAD-43	Water	Am-241	pCi/L	69.2	68.6	47.1-87.7	101	A
Sept 2025	MRAD-43	Water	Fe-55	pCi/L	304	399	234-580	76.2	A
Sept 2025	MRAD-43	Water	Pu-238	pCi/L	104	115	56.7-122	90.4	A
Sept 2025	MRAD-43	Water	Pu-239	pCi/L	37.8	39.8	24.6-49.0	95.0	A
Oct 2025	RAD	Water	Ba-133	pCi/L	21.3	17.5	6.55-28.5	122	A
Oct 2025	RAD	Water	Cs-134	pCi/L	53.8	58	43.0-73.0	92.8	A
Oct 2025	RAD	Water	Cs-137	pCi/L	179.5	178	142-214	101	A
Oct 2025	RAD	Water	Co-60	pCi/L	58.3	55	40.3-69.7	106	A
Oct 2025	RAD	Water	Zn-65	pCi/L	37.04	36.8	5.51-68.1	101	A
Oct 2025	RAD	Water	GR-A	pCi/L	64.8	59.9	45.5-74.3	108	A
Oct 2025	RAD	Water	GR-B	pCi/L	19.3	19.3	12.2-26.4	100	A
Oct 2025	RAD	Water	H-3	pCi/L	18400	21200	18200-24200	86.8	A
Oct 2025	RAD	Water	I-131 (Low Level)	pCi/L	23.9	24.3	20.9-27.7	98.4	A
Oct 2025	RAD	Water	Sr-89	pCi/L	69.7	64.2	48.6-79.8	109	A
Oct 2025	RAD	Water	Sr-90	pCi/L	39.8	43.8	37.6-50.0	90.9	A
Oct 2025	RAD	Water	U (Total)	pCi/L	47.1	54	48.0-60.0	87.2	N ⁽²⁾

KEY

(a) The ERA known value is equal to 100% of the parameter present in the standard as determined by gravimetric and/or volumetric measurements made during standard preparation.

(b) ERA evaluation:

A = Acceptable - Reported value falls within the Acceptance Limits

N = Not Acceptable - Reported value falls outside of the Acceptance Limits

N⁽¹⁾ = NCR 25-06

N⁽²⁾ = NCR 25-11

N⁽³⁾ = NCR 25-10

Eckert & Ziegler Analytics
Environmental Radioactivity Crosscheck Program
Teledyne Brown Engineering - Environmental Services

Month/Year	Identification Number	Matrix	Nuclide	Units	TBE Reported Value	Known Value ^(a)	Acceptance Ratio (%)	Evaluation ^(b)
March 2025	E14230	Milk	Ce-141	pCi/L	68.1	75.8	90	A
March 2025	E14230	Milk	Cs-134	pCi/L	121	142	85	A
March 2025	E14230	Milk	Cs-137	pCi/L	154	168	92	A
March 2025	E14230	Milk	Cr-51	pCi/L	278	291	96	A
March 2025	E14230	Milk	Co-58	pCi/L	95.4	105	91	A
March 2025	E14230	Milk	Co-60	pCi/L	169	193	88	A
March 2025	E14230	Milk	Fe-59	pCi/L	125	135	93	A
March 2025	E14230	Milk	Mn-54	pCi/L	172	189	91	A
March 2025	E14230	Milk	Zn-65	pCi/L	229	251	91	A
March 2025	E14230	Milk	I-131 (Low Level)	pCi/L	88.4	94.7	93	A
March 2025	E14229	Milk	Sr-89	pCi/L	84.9	91.9	92	A
March 2025	E14229	Milk	Sr-90	pCi/L	11.1	15.6	71	W
March 2025	E14323	AP	Ce-141	pCi	55.9	54.2	103	A
March 2025	E14323	AP	Cs-134	pCi	93.0	102	91	A
March 2025	E14323	AP	Cs-137	pCi	107	120	89	A
March 2025	E14323	AP	Cr-51	pCi	194	208	93	A
March 2025	E14323	AP	Co-58	pCi	68.4	75.2	91	A
March 2025	E14323	AP	Co-60	pCi	142	138	103	A
March 2025	E14323	AP	Fe-59	pCi	95.0	96.3	99	A
March 2025	E14323	AP	Mn-54	pCi	123	135	91	A
March 2025	E14234	AP	Zn-65	pCi	181	179	101	A
March 2025	E14336	AP	Ni-63	pCi/Total	81.5	87.4	93	A
March 2025	E14234	AP	Sr-89	pCi	81.6	88.5	92	A
March 2025	E14234	AP	Sr-90	pCi	13.6	15	90	A
March 2025	E14231	Charcoal	I-131	pCi	70.3	66.3	106	A
March 2025	E14233	Soil	Ce-141	pCi/g	0.124	0.129	96	A
March 2025	E14233	Soil	Cs-134	pCi/g	0.283	0.242	117	A
March 2025	E14233	Soil	Cs-137	pCi/g	0.333	0.351	95	A
March 2025	E14233	Soil	Cr-51	pCi/g	0.495	0.494	100	A
March 2025	E14233	Soil	Co-58	pCi/g	0.193	0.179	108	A
March 2025	E14233	Soil	Co-60	pCi/g	0.323	0.327	99	A
March 2025	E14233	Soil	Fe-59	pCi/g	0.231	0.229	101	A
March 2025	E14233	Soil	Mn-54	pCi/g	0.325	0.321	101	A
March 2025	E14233	Soil	Zn-65	pCi/g	0.446	0.426	105	A
March 2025	E14235	Water	Gr-A (Am-241)	pCi/L	79.6	89.4	89	A
March 2025	E14235	Water	Gr-B (Cs-137)	pCi/L	242	285	85	A

(a) The Analytics known value is equal to 100% of the parameter present in the standard as determined by gravimetric and/or volumetric measurements made during standard preparation.

(b) Analytics evaluation based on TBE internal QC limits:

A = Acceptable - reported result falls within ratio limits of 0.80-1.20

W = Acceptable with warning - reported result falls within 0.70-0.80 or 1.20-1.30

N = Not Acceptable - reported result falls outside the ratio limits of < 0.70 and > 1.30

Eckert & Ziegler Analytics
Environmental Radioactivity Crosscheck Program
Teledyne Brown Engineering - Environmental Services

Sept 2025	E14237	Milk	Ce-141	pCi/L	91.6	89.5	102	A
Sept 2025	E14237	Milk	Cs-134	pCi/L	121	142	85	A
Sept 2025	E14237	Milk	Cs-137	pCi/L	115	126	91	A
Sept 2025	E14237	Milk	Cr-51	pCi/L	280	260	108	A
Sept 2025	E14237	Milk	Co-58	pCi/L	104	105	99	A
Sept 2025	E14237	Milk	Co-60	pCi/L	145	150	97	A
Sept 2025	E14237	Milk	Fe-59	pCi/L	91.4	98.6	93	A
Sept 2025	E14237	Milk	Mn-54	pCi/L	159	161	99	A
Sept 2025	E14237	Milk	Zn-65	pCi/L	205	196	105	A
Sept 2025	E14237	Milk	I-131 (Low Level)	pCi/L	79.5	76.3	104	A
Sept 2025	E14236	Milk	Sr-89	pCi/L	109	89.8	121	W
Sept 2025	E14236	Milk	Sr-90	pCi/L	10.9	13.1	83	A
Sept 2025	E14239	AP	Ce-141	pCi	67.5	68.1	99	A
Sept 2025	E14239	AP	Cs-134	pCi	103	108	95	A
Sept 2025	E14239	AP	Cs-137	pCi	98.4	96.1	102	A
Sept 2025	E14239	AP	Cr-51	pCi	227	197	115	A
Sept 2025	E14239	AP	Co-58	pCi	79.6	79.9	100	A
Sept 2025	E14239	AP	Co-60	pCi	131	114	115	A
Sept 2025	E14239	AP	Fe-59	pCi	74.7	75	100	A
Sept 2025	E14239	AP	Mn-54	pCi	120	123	98	A
Sept 2025	E14239	AP	Zn-65	pCi	133	149	89	A
Sept 2025	E14337	AP	Ni-63	pCi/Total	71.4	85.1	84	A
Sept 2025	E14241	AP	Sr-89	pCi	78.2	84.2	93	A
Sept 2025	E14241	AP	Sr-90	pCi	13.7	12.2	112	A
Sept 2025	E14238	Charcoal	I-131	pCi	80.8	79	102	A
Sept 2025	E14240	Soil	Ce-141	pCi/g	0.133	0.149	89	A
Sept 2025	E14240	Soil	Cs-134	pCi/g	0.166	0.236	70	W
Sept 2025	E14240	Soil	Cs-137	pCi/g	0.22	0.276	80	A
Sept 2025	E14240	Soil	Cr-51	pCi/g	0.486	0.432	112	A
Sept 2025	E14240	Soil	Co-58	pCi/g	0.16	0.175	91	A
Sept 2025	E14240	Soil	Co-60	pCi/g	0.234	0.251	93	A
Sept 2025	E14240	Soil	Fe-59	pCi/g	0.154	0.164	94	A
Sept 2025	E14240	Soil	Mn-54	pCi/g	0.241	0.269	90	A
Sept 2025	E14240	Soil	Zn-65	pCi/g	0.308	0.326	94	A
Sept 2025	E14242	Water	Gr-A (Am-241)	pCi/L	97.2	99.7	97	A
Sept 2025	E14242	Water	Gr-B (Cs-137)	pCi/L	200	201	100	A

(a) The Analytics known value is equal to 100% of the parameter present in the standard as determined by gravimetric and/or volumetric measurements made during standard preparation.

(b) Analytics evaluation based on TBE internal QC limits:

A = Acceptable - reported result falls within ratio limits of 0.80-1.20

W = Acceptable with warning - reported result falls within 0.70-0.80 or 1.20-1.30

N = Not Acceptable - reported result falls outside the ratio limits of < 0.70 and > 1.30

APPENDIX C

ERRATUM

Erratum- Correction to Previously Published Annual Radiological Environmental Operating Report

In the 2025 Annual Radiological Environmental Operating Report there were no corrections identified to previously published Annual Radiological Environmental Operating Reports.

