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U.S. Nuclear Regulatory Commission
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Subject: **COLUMBIA GENERATING STATION, DOCKET NO. 50-397**
INDEPENDENT SPENT FUEL STORAGE INSTALLATION, DOCKET NO. 72-35
2025 ANNUAL RADIOLOGICAL ENVIRONMENTAL OPERATING REPORT

References:
1. Columbia Generating Station Technical Specification 5.6.1
2. Independent Spent Fuel Storage Installation Technical Specification 5.4.c
3. EFSEC Resolution No. 332, March 15, 2023

Dear Sir or Madam:

In accordance with the requirements of References 1-3, the subject report is provided as an Enclosure to this letter. This letter contains no regulatory commitments. If you have questions regarding this information, please contact Ms. Katie Hall at (509) 377-8776.

Executed on this 12th day of MAY, 2026.

Respectfully,

Stephanie Banker
Site Vice President

Enclosure – 2025 Annual Radiological Environmental Operating Report

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ENERGY NORTHWEST

COLUMBIA GENERATING STATION

2025 ANNUAL RADIOLOGICAL ENVIRONMENTAL OPERATING REPORT

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COLUMBIA GENERATING STATION

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM

2025 ANNUAL RADIOLOGICAL ENVIRONMENTAL OPERATING REPORT

For Calendar Year 2025

Preparation Date: April 2026

Submitted Date: May 2026

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1.0 EXECUTIVE SUMMARY

The primary objective of the Energy Northwest Radiological Environmental Monitoring Program (REMP) is to evaluate the radiological impact that Columbia Generating Station (CGS) operations may have on the environment. This report summarizes and discusses REMP data collected from January 1 through December 31, 2025. Sampling is performed in accordance with the Offsite Dose Calculation Manual (ODCM), as well as agreements established with the State of Washington Energy Facility Site Evaluation Council (EFSEC). Additional sampling is performed to meet Nuclear Energy Institute (NEI) guidance or as part of Energy Northwest initiatives. The program supports validation of CGS effluent measurements and exposure pathway models while maintaining a documented historical record of CGS's environmental impact.

The REMP includes the routine collection and analysis of a wide range of environmental media, including air, water, soil, sediment, milk, fish, and garden produce. Direct radiation is also continuously monitored at numerous locations surrounding CGS. Analytical results are trended and compared to control locations, pre-operational data, historical operating data, and applicable regulatory limits.

Results for 2025 indicate that any radiological impacts attributable to CGS operations remained confined to areas within the CGS-controlled area. Routine sample results outside the controlled area were consistent with those from control locations, with data from pre-operational and historical operating periods, and with expected natural background levels. Activity identified within the controlled area was attributed to rain-washout (recapture) of gaseous activity previously released through monitored and approved effluent pathways. Radioactive material detected outside the controlled area was of natural origin or consistent with known background conditions. No radioactive material related to CGS operations was identified beyond the controlled area. These results corroborate CGS effluent measurements and exposure pathway models.

Summaries of the 2025 monitoring pathways are as follows:

• **Direct Radiation** - No radiological impact was identified beyond the CGS-controlled area. Within the controlled area, radiation influences were observed in locations affected by the Independent Spent Fuel Storage Installation (ISFSI) and the turbine building during operation.

• **Airborne** - No airborne radiological impacts attributable to CGS operations were detected. Environmental air samples revealed no radioiodines or radionuclides linked to CGS operations.

• **Waterborne** - No radiological impacts were observed in surface water or drinking water locations outside the CGS-controlled area. Low levels of tritium activity were identified in storm drain water within evaporation ponds. These levels are attributed to recapture and concentration of CGS effluent activity and remain consistent with historical observations. Tritium activity in groundwater samples reflects long-standing Hanford groundwater conditions and show no indication from CGS operations. Radionuclides identified in river sediment were consistent with known historical levels in Hanford-area soils and sediments.

• **Ingestion** - No radiological impact was detected in milk, fish, or food product samples. Carbon-14 levels in local fruit samples were consistent with those expected solely from natural background contributions.

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2.0 DEFINITIONS

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2.0 DEFINITIONS

a priori: refers to a "before the fact" limit that represents the capabilities of a measurement system and not a limit for a particular measurement.

a posteriori: refers to an "after the fact" limit determined for a particular measurement and not a limit for a measurement system.

Airborne Activity Sampling: Continuous sampling of air through the collection of particulates and radionuclides on filter media. Periodic soil samples are collected for gamma isotopic analysis to provide information on deposition to the soil from airborne releases.

Alpha Particle (α): A charged particle emitted from the nucleus of an atom having a mass and charge equal in magnitude of a helium nucleus.

Becquerel (Bq): One disintegration per second. One picocurie (pCi) equals 0.037 becquerel.

Beta Particle (β): Charged particle emitted from the nucleus of an atom with a mass and charge equal in magnitude to that of an electron.

Blank Sample: A sample of the same media as the field sample being analyzed but without any radionuclide(s) being measured. It enables correction for the inherent sample background.

CBD: Circulating Water Blowdown.

CFM: Cubic Feet per Minute.

CFR: Code of Federal Regulations.

CGS: Columbia Generating Station, formerly referred to as WNP-2.

CGS Controlled Area: The area within a 1.2-mile radius of the center of the CGS reactor and a narrow corridor extending from CGS east to the Columbia River.

CGS Protected Area: The area within the security fence surrounding CGS. Access to this area requires a security badge or escort.

Composite Sample: A series of single collected portions (aliquots) analyzed as one sample. The aliquots making up the sample are collected at time intervals that are very short compared to the composite period.

Control Station: A sampling station in a location not likely to be affected by plant effluents due to its distance and/or direction from CGS.

Counting Error: An estimate of the two-sigma uncertainty associated with the sample results based on respective count times.

$$+/-2\sqrt{(\frac{SampleCPM}{CountTime}+\frac{BkgCPM}{CountTime})}$$

CPM: Counts Per Minute.

Curie (Ci): A measure of radioactivity; equal to 3.7 x 10^{10} disintegrations per second, or 2.22 x 10^{12} disintegrations per minute.

CW: Circulating Water.

Direct Radiation Monitoring: The measurement of radiation dose at various distances from the plant is assessed using dosimeters and pressurized ionization chambers.

DOE: U.S. Department of Energy.

D/Q: Deposition values.

EFSEC: Energy Facility Site Evaluation Council.

ENW: Energy Northwest.

Flow Proportional Sampling: Sample collection volume or frequency determined as a function of the flow rate of the water being sampled.

Grab Sample: A single discrete sample drawn at one point in time.

IDC: Energy Northwest Industrial Development Complex, formerly referred to as the WNP-1 and WNP-4 sites.

Indicator Station: A sampling location that is likely to be affected by plant effluents due to its proximity and/or direction from CGS.

Ingestion Pathway Monitoring: The ingestion pathway includes milk, fish, and garden produce. Also sampled (under special circumstances) are other media such as vegetation and animal products such as eggs and meat when additional information about particular radionuclides is needed.

ISFSI: Independent Fuel Storage Installation.

Lower Limit of Detection (LLD): The smallest concentration of radioactive material in a sample that will yield a net count (above system background) that will be detected with 95% probability with a 5% probability of a false conclusion that a blank observation represents "real" signal.

Mean: The average, i.e., the sum of results divided by the number of results.

Microcurie: 3.7 x 10^4 disintegrations per second, or 2.22 x10^6 disintegrations per minute.

Milliroentgen (mR): 1/1000 Roentgen; a unit of exposure to X or gamma radiation.

MDA: Minimum Detectable Activity.

MDC: Minimum Detectable Concentration.

NEI: Nuclear Energy Institute

NIST: National Institute of Standards and Technology.

NPDES: National Pollutant Discharge Elimination System.

NRC: U.S. Nuclear Regulatory Commission.

ODCM: Offsite Dose Calculation Manual. Licensing document that contains the NRC mandated effluent and offsite radiological monitoring requirements.

Optically Stimulated Luminescence (OSL) Dosimeter: A device used to measure the amount of exposure to radiation. A crystal phosphor that stores energy proportional to the amount of exposure; the exposure level is determined by light to release the stored energy and measure the dose of ionizing radiation received.

Picocurie (pCi): 1 x 10^{-12} Curie or one millionth of a microcurie. 1 picocurie equal 0.037 becquerel or 2.22 disintegrations per minute

Radioiodine: Radioisotopes of iodine. For commercial nuclear reactors, iodine-131 to iodine-135 are the principle radioiodines of concern. Due to its longer half-life, iodine-131 is the most probable radioiodine identifiable in the environment.

REMP: Radiological Environmental Monitoring Program.

Range: The difference between the smallest and largest results.

Restricted Area: Any area where access is controlled for the purpose of protecting individuals from exposure to radiation or radioactive materials.

Roentgen: Unit of exposure to ionizing radiation in air.

Site Certification Agreement (SCA): The initial Columbia Generating Station licensing agreement with the State of Washington. The REMP sampling commitments in the SCA have been modified by EFSEC agreements.

Spiked Sample: A sample that has had a known quantity of radionuclide(s) added for the purposes of assessing analytical performance.

Standard Deviation: A measure of the scatter of a set of observations (or samples) around their mean value. Indicated by "σ".

Standard Error of the Mean: An estimate of the uncertainty associated with the mean of observation (or sample) averages. Also known as the standard deviation.

$$SE = \sqrt{\frac{S^2}{n}}$$

where S^2, the variance is

$$S_m^2 = \frac{1}{(n-1)} \sum^{n} (Xi - X)^2$$

SWTF: Sanitary Waste Treatment Facility. The sanitary waste processing facility for CGS and other ENW facilities near the CGS site.

TEDA: triethylene diamine. A compound used in charcoal cartridge filters to collect radioiodine.

Thermoluminescent Dosimeter (TLD): A device used to measure the amount of exposure to radiation. A crystal phosphor that stores energy proportional to the amount of exposure; the exposure level is determined by heating the crystal and reading the amount of emitted light.

TMU: Tower Makeup System.

WDOH: Washington State Department of Health.

WSU: Washington State University.

3.0 INTRODUCTION

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3.0 INTRODUCTION

3.1 Site Description

The Columbia Generating Station (CGS) is a 1230 MWe commercial nuclear power plant that achieved initial criticality on January 19, 1984. The plant is located in a sparsely populated shrub-steppe region within the Department of Energy (DOE) Hanford Site in southeastern Washington. The plant is approximately three miles west of the Columbia River and is surrounded by uninhabited desert land. The nearest large population centers are Richland, Pasco, and Kennewick, which are 12 miles south, 18 miles southeast, and 21 miles southeast, respectively. The nearest privately owned lands are located approximately four miles east-northeast of the plant, across the Columbia River. The site has a bimodal wind pattern, with winds primarily from the northwest and south. [1] The primary region of focus for REMP sampling is the farming region east of the plant.

Naturally occurring radionuclides exist in detectable quantities throughout the environment and are observed in many samples collected for the CGS REMP. Common examples include potassium-40, beryllium-7, actinium-228 (present as a decay product of radium-228), and radium-226. In addition, some relatively long-lived anthropogenic radioisotopes, such as strontium-90 and cesium-137, are also detected in some REMP samples; these radionuclides persist globally as a result of fallout from historical atmospheric nuclear weapons testing. [2, 3]

Due to the location of CGS on the Hanford Site, there are other sources of reactor-produced radionuclides near the plant. CGS is unique in the U.S. commercial nuclear power industry in this respect. Hanford-related radionuclides, most notably tritium, are identified in some CGS REMP samples. Although the presence of these radionuclides in the vicinity of CGS is not necessarily reflective of CGS activity, changes in the levels of these radionuclides are monitored to assess any potential contribution from CGS relative to established background levels. The DOE maintains an active environmental monitoring program for the Hanford Site that overlaps with the CGS REMP.

3.2 Program Background

The CGS REMP is designed to conform to the Nuclear Regulatory Commission (NRC) Regulatory Guide 4.1, [4] US Nuclear Regulatory Commission Regulation (NUREG) 1302, [5] and the 1979 NRC Branch Technical Position. [6] In addition, the program meets the requirements of 10 Code of Federal Regulations (CFR) 72.44(d)(2) [20] for coverage of the Independent Spent Fuel Storage Installation (ISFSI).

The quality assurance aspects of the sampling program and the environmental dosimetry are conducted in accordance with Regulatory Guides 4.15[7] and 4.13.[8] The REMP also adheres to the requirements of the State of Washington Energy Facility Site Evaluation Council (EFSEC),[9] CGS Technical Specifications,[10] and the CGS Offsite Dose Calculation Manual (ODCM).[11] These requirements cover the environmental sampling, analytical methods, reporting, and quality assurance activities.

The preoperational phase of the program, conducted from March 1978 until initial criticality in January 1984, provided a baseline of background environmental data. Variability in the background levels of radioactivity over time is due to differences in geologic composition, meteorological conditions, decay of nuclear testing fallout material in the environment, and seasonal changes.

Additional variability in results may also have been introduced by changing analytical contractors and the use of different correction factors over the years.

In addition to evaluating environmental concentrations against regulatory limits, the REMP also compares some results to standards established by the State of Washington. [12, 13] Results may further be evaluated through comparison with measurements collected during the preoperational and previous operational periods, as well as with the detection capabilities associated with current analytical methods.

3.3 Program Objectives

The REMP provides an independent means of determining the levels of radioactivity in the plant environs in order to empirically identify and characterize any radiological impacts from plant operation. Implementation of the REMP ensures that any accumulation of radionuclides in the environment attributable to station activities is promptly identified before levels become significant or exceed established limits.

While in-plant monitoring programs ensure compliance with 10 CFR 20[14] and 10 CFR 50[15] requirements for radioactive effluents releases, the REMP provides further verification that measured concentrations of radioactive material and levels of radiation observed in the environment are consistent with expectations based on CGS effluent measurements and exposure pathway modeling.

4.0 PROGRAM DESCRIPTION

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4.0 PROGRAM DESCRIPTION

Environmental samples for the REMP are collected in accordance with the CGS ODCM. Additional sampling requirements are specified in Resolutions or Council Orders issued by the EFSEC. Some sampling is also performed as a CGS initiative in response to site-specific or industry-wide concerns. The sampling plan presented in Table 4-1 gives an overview of the REMP sampling routine, a summary of the sample locations, the specified collection frequency, and the types of analyses performed. The methods of sampling and sampling frequencies utilized in the program are mostly dictated by regulatory requirements. Factors such as nuclide half-lives and the major exposure pathways for the radionuclides potentially released from the plant have also been considered in determining the sampling methodology.

4.1 Sample Locations

A total of 125 REMP sampling locations (referred to as 'stations') were included in the monitoring program during 2025. Multiple sample types may be collected at a single station. Of these stations, 115 indicator and 3 control stations were located within a 10-mile radius of CGS, while 3 indicator and 4 control stations were located beyond the 10-mile radius of the plant. Sampling station details are provided in Tables 4-1 and 4-2 and most station locations are shown in Figures 4-1 to 4-4.

The locations of most sample stations have been selected based on an exposure pathway analysis. The exposure pathway analysis was based on factors such as weather patterns, anticipated emissions, likely receptors, and land use in the surrounding areas. Samples collected from stations located in areas that potentially could be influenced by CGS operation are used as indicators. Samples collected from locations that are not likely to be influenced by CGS operation serve as controls. Results from indicator stations are compared to the results from control stations and results obtained during the previous operational and preoperational years of the program in order to assess the impact CGS operation may be having on the environment.

4.2 Independent Spent Fuel Storage Installation (ISFSI)

The Independent Spent Fuel Storage Installation (ISFSI) is a fenced, secured area constructed to provide a storage location for spent nuclear fuel. The spent fuel is stored in HI-STORM dry storage casks which are placed on concrete pads inside the facility. The pads are 30-feet wide by 147-feet long and each pad can hold up to 18 casks. The ISFSI is located approximately 500 meters north-northwest of the centerline of the reactor. Radiological exposure rates inside the ISFSI security fence line are elevated and access to the area requires radiological dosimetry and security notification. In addition to the dosimetry monitoring program, quarterly radiological surveys of the ISFSI are conducted by the CGS Radiation Protection Department.

Direct radiation monitoring of the ISFSI is performed using dosimeters placed at designated monitoring locations arranged around the facility, as shown in Figure 4-4. The dosimeters are exchanged quarterly. Two additional dosimeter locations, Station 121 located approximately 200 meters north of the turbine building and Station 122 located approximately 100 meters north of the ISFSI, were established prior to ISFSI operation to specifically monitor ISFSI direct radiation. In addition, two more dosimeter stations, Station 155 located WNW of the ISFSI and Station 156 located to the NW of the ISFSI, were installed to further aid in monitoring ISFSI direct radiation. Figure 4-1 shows the ISFSI location in relation to CGS and the position of these additional dosimeter locations.

In 2024, four spent fuel storage pads were added to the CGS ISFSI in west orientation, immediately southwest of the existing pads. To monitor dose rates from the new pads, ten additional dosimeter locations (Stations 139 through 148) were added to the west and south of the new pads in the first quarter of 2025. Because the new pads remained empty during this period, measurements from these dosimeters reflect only existing ISFSI contributions and background conditions. Figure 4-4 shows the updated ISFSI facility, the location of the new pads, and all ISFSI fence line dosimeter stations. This arrangement of dosimeters in conjunction with the radiological surveys conducted by the CGS Radiation Protection Department, constitutes the radiological monitoring program for the ISFSI.

4.3 Land Use Census

The Land Use Census conducted annually during the growing season encompasses the areas within a five-mile radius of CGS. The purpose of this census is to identify the locations of the nearest milking animal, the nearest residence, and the nearest garden greater than 500 ft^2 producing broadleaf vegetation. This information is used to determine whether any site located during the census has a calculated dose or dose commitment greater than the sites currently monitored for the same exposure pathway. If a new location with a higher dose commitment was found, routine sampling of that dose pathway would be initiated at that new site. The results of the 2025 five-mile land use census are presented in Table 4-3.

4.4 Sampling Methods

Environmental samples are collected by Energy Northwest personnel in accordance with the program plan outlined in Table 4-1. Methods of sample collection and dosimeter handling are specified in REMP specific procedures. A general overview of the sampling methods used in the REMP is given below. Generic descriptions of the REMP sample analysis methods are listed in section 4.6.

4.4.1 Direct Radiation

Direct radiation levels were monitored using OSL dosimeters that are supplied pre-assembled and sealed in waterproof pouches. The dosimeters are deployed in the field at heights between three and five feet above ground level and are exchanged on a quarterly basis.

The locations of the dosimeter stations are listed in Table 4-2 and are shown in Figures 4-1 through 4-4. Station 9A near Sunnyside, WA serves as the environmental dosimeter control location. Station 119 Cntl serves as the control for Station 119B (the cooling system sediment disposal cells). The remaining dosimeters deployed in the field serve as indicator dosimeters. The dosimeters are arranged in a series of rings that encircle CGS. The innermost ring of dosimeter stations, referred to as the “S” stations, are located inside the CGS site boundary at distances that range from 0.3-0.8 miles from the centerline of the reactor. The second ring of dosimeters, referred to as the “near plant” stations, are located at distances ranging from 0.9 to 2.1 miles from the centerline of the reactor. The outer ring of dosimeters are located at distances that range from a little under three miles to around ten miles. Direct radiation is also monitored by dosimeters at the ISFSI and at several miscellaneous locations at CGS initiative. A MicroRem dose rate meter is available as a backup device and to take real time readings as needed.

4.4.2 Airborne - Particulate/Iodine

Weekly air particulate and radioiodine (iodine -131) samples are obtained using low volume (1.5 cfm), constant flow-rate sampling units located at 12 locations. The samples collected at Station 9A (Figure 4-3) serve as controls, the samples collected at all other locations (Figures 4-1, 4-2, and 4-3) are indicators. Air particulate samples are collected at each location by using 47mm diameter glass fiber filters and air iodine samples are collected using Radeco CP-100 TEDA impregnated charcoal cartridges. The air particulate filter and charcoal cartridge are placed in tandem, particulate filter first, in a holder that attaches to the air inlet of the sampler unit. The sampler units are placed in ventilated metal weatherproof housings mounted on elevated platforms at each air sample location. The filter media are changed weekly. Four additional air sample monitor locations are available to monitor work at the DOE 618-11 burial site if needed.

4.4.3 Water

Water sampling is performed to meet ODCM and EFSEC requirements, to comply with NEI guidelines, or as a CGS initiative. REMP water sampling can be categorized as follows:

- Intake-River/Drinking Water; two locations (Stations 26 and 29)
- Plant Discharge Water; one location (Station 27)
- Deep Groundwater; one location (Station 52)
- Storm Drain Water; one location (Station 101B) combined influent to evaporation ponds
- Sanitary Wastewater; one location (Station 102B)
- Shallow Groundwater; six locations (MW-5 and MW-10 through MW-14)

The sample at Station 26 is obtained using a composite sampler that draws water from the plant intake water system (TMU). The source of this water is the Columbia River. The station serves as a control location, as it is upstream of the plant discharge location, and as a drinking water location as drinking water for CGS comes from this source. Station 29 is a composite sampler located at the City of Richland Water Treatment Plant located 11 miles downstream of the plant discharge. Station 29 is an indicator station for both river and drinking water.

The ODCM requirement for a downstream water sample is conservatively met by Station 27, a composite sampler that collects water from the cooling tower discharge line just prior to final discharge into the Columbia River. This sample reflects the radioactivity present in the plant discharge prior to any river dilution, rather than the concentrations that would be found after dilution in the mixing zone. Composite samples from Stations 26, 27, and 29 are collected monthly and analyzed for gamma emitting radionuclides, gross beta, and tritium.

One drinking water well on Energy Northwest property is used to provide deep groundwater samples. This well is greater than 400 feet deep and provides samples from the confined aquifer beneath CGS. Station 52 is a deep well located 0.1 mile north of the centerline of the reactor and can be used as a backup source for drinking water and fire protection. This well is considered an indicator location. Quarterly grab samples are collected from the well and analyzed for gamma-emitting radionuclides and tritium.

Historically, Stations 31 and 32, located at the IDC and approximately 1.2 miles downgradient from CGS, were also used to obtain deep groundwater samples. These wells were

decommissioned in June 2025 and are no longer part of the monitoring program.

The composite sampler at Station 101B collects samples of wastewater discharged to two evaporation ponds located on the CGS site. The water collected is storm drain, air wash, and non-radioactive system wastewater originating from within the CGS protected area.

Samples are collected monthly on a flow proportional basis and analyzed for gross beta, gamma emitting radionuclides, and tritium. Sampling and analysis requirements for Station 101B are given in EFSEC Resolution No. 332[9] and EFSEC Council Order 874. [22] Process wastewater originating outside of the CGS protected area is typically discharged to three additional evaporation ponds; the water discharged to these ponds is not sampled by the Station 101B composite sampler. Annual grab samples are collected from these three evaporation ponds and analyzed for gamma emitting radionuclides and tritium as specified by EFSEC Council Order 874. [22]

The Sanitary Waste Treatment Facility (SWTF) receives sanitary wastewater from CGS, the IDC, and the Kootenai Building. Discharge standards and monitoring requirements for the SWTF are established in EFSEC Resolution No. 300 [16] and a temporary State Waste Discharge Permit (SWDP). [25] The Station 102B composite sampler collects a representative sample of water flowing into the headworks at the SWTF. Monthly samples are collected and analyzed for gross alpha, gross beta, tritium, and gamma emitting radionuclides.

Routine quarterly grab samples are taken as part of the REMP from shallow ground water monitoring wells surrounding CGS. The monitoring well locations are shown in Figure 4-1. The shallow groundwater wells are all less than 100 feet deep and allow samples to be obtained from the unconfined aquifer under CGS. None of the wells are used for drinking water. Sampling from these locations is performed to meet NEI 07-07 guidelines [17] and requirements in the CGS NPDES permit.

4.4.4 Soil

Annual soil samples are a requirement of EFSEC Resolution No. 332. [9] For 2025, two soil samples were collected from locations near CGS (Stations 7 and 23), two samples from farmland in Franklin County east of CGS (Stations 8 and 48), and one sample from a control location near Sunnyside, WA (Station 9A). Each sample was collected from an area of approximately one square foot to a depth of approximately one inch. Approximately one to two kilograms of soil is collected from each location. Soil samples are analyzed for gamma activity on a dry weight basis.

4.4.5 Sediment

River sediment samples are collected semiannually as required by the ODCM and EFSEC Resolution No. 332. [9] The upstream sediment sample location (Station 33) is approximately two miles upriver from the plant discharge. The downstream sample (Station 34) is collected approximately one mile downstream from the plant discharge. Each sample consists of approximately two kilograms of shallow surface sediment scooped from areas known to be underwater during high water periods and where the potential for sediment accumulation is likely. Sediment samples are dried in an oven and then analyzed for gamma emitting radionuclides on a dry weight basis.

Cooling system sediment samples are collected and analyzed whenever cooling system sediment is added to the disposal cells (Station 119B, Figure 4-1). Disposal of cooling system sediment is made in accordance with EFSEC Resolution No. 299. [18] Pre-disposal samples are collected and analyzed prior to transfer to ensure the material will be within the limits specified in the EFSEC resolution. Following transfer, the material is allowed to dry, and a post-disposal sample is collected and analyzed.

Sediment samples from the two evaporation ponds that receive wastewater originating from within the CGS protected area (evaporation ponds 3 and 4) are collected annually and analyzed for gamma emitting radionuclides. This sampling and analysis are performed to meet EFSEC Council Order 874[22] requirements. Sediment samples from the other three evaporation ponds may be collected as a CGS initiative as conditions allow.

4.4.6 Fish

Annual fish sampling is usually performed in late summer or fall. Fish samples collected from the Columbia River (Station 30) serve as indicator samples, whereas fish collected on the Snake River (Station 38) serve as control samples. Only edible portions of the fish are used to prepare the samples for analysis. Fish samples are analyzed for gamma emitting radionuclides on a wet weight basis**.** Three species of fish are collected; an anadromous species (salmon or steelhead), and two other resident species generally considered edible or potentially edible (typically bass, whitefish, carp, walleye, perch, or sucker). The same species are collected at each location. Resident species have been collected using traditional hook and line fishing since 2012.

Anadromous species are obtained from local fish hatcheries through arrangements made with the State of Washington Department of Fish and Wildlife.

4.4.7 Milk

Milk samples are collected semimonthly during the spring and summer months (April through September) when cows are more likely to be grazing or on fresh feed. During the fall and winter months, milk samples are collected monthly. Raw milk samples are collected within a few hours of milking and the samples are normally prepared and analyzed within four days. Milk samples are collected from both indicator and control locations. Station 36 in Franklin County serves as the primary indicator location and is the only known dairy within a ten-mile radius of CGS. Milk samples were not obtained from Station 36B because the owner had moved since 2020. Control milk samples (Station 9B) were collected from a dairy in the lower Yakima Valley near Prosser, WA.

4.4.8 Garden Produce

Samples of local garden produce are collected during the growing season when the produce is readily available. Three types of garden produce are typically collected: root crops, fruits, and leafy vegetables. Control samples (Station 9C) are usually obtained from the lower Yakima Valley. Indicator samples are collected from areas downstream of the CGS discharge where crops are irrigated with Columbia River water or from locations that potentially could be impacted by CGS gaseous emissions. The Riverview and Ringold areas of Pasco are the principal collection locations for fruit crop. Root crops are primarily collected from a garden located near WSU Tri-Cities SSE of CGS and the Riverview area of Pasco. Collection of leafy vegetables is primarily made from gardens and farms located east of CGS. Vegetation samples may also be collected from locations

closer to CGS. Garden and vegetable samples are typically puréed in a food processor and then analyzed for gamma emitting radionuclides on a wet weight basis. Only edible portions are used for analysis.

4.5 Split Sample Program

In addition to the sample analyses performed by the Energy Northwest Environmental Services laboratory, several of the samples collected are split and independently analyzed by the Washington State Department of Health (WDOH). CGS REMP personnel typically collect these samples, ship a representative portion to the WDOH laboratory, then separately analyze another portion of the sample. For media such as air particulates or dosimeters where sample splitting is not feasible, the WDOH co-locates a dosimeter or air sampler at the sample location. The following split samples are typically provided: Monthly surface water samples from three locations, annual ground water samples from three locations, weekly air iodine and particulate filters from two locations, bi-annual vegetable samples from one location, monthly indicator milk samples from one location, quarterly control milk samples from one location, annual resident fish from one location, annual soil samples from three locations, and annual sediment samples from two locations.

4.6 Sample Analyses

General descriptions of the procedures used to analyze REMP samples are provided in the following sections. All REMP environmental dosimeters in 2025 were processed by Landauer. Carbon-14 analysis of apples was performed by the WDOH in 2025. All other routine REMP samples were collected and analyzed by Energy Northwest Environmental Services. Samples are normally collected and analyzed within a short time period to ensure required detection sensitivities are met and to provide timely results. Sample count times are conservatively calculated to ensure required *a priori* LLDs are achieved. Table 4-4 lists the ODCM required LLDs and the nominal target LLD used in the Energy Northwest REMP program.

4.6.1 Analysis of Dosimeters

REMP dosimeters are analyzed on an Inlight (OSL) reader. The reader is calibrated immediately prior to processing the environmental dosimeters. The reader is calibrated with dosimeters that have been given a known exposure from a cesium-137 source. Each group of environmental dosimeters is processed with blank dosimeters and spiked dosimeters that have been given a known exposure. Exposure received by the field dosimeters during transport is monitored with a set of ‘trip’ control dosimeters that accompany the field dosimeters to and from the field locations and while in storage. Another set of dosimeters, the building controls, are used to determine the exposure of the dosimeters at the storage location. The dosimeter exposure during transport to and from the field was determined from the difference between the building control results and the trip control results.

4.6.2 Gross Beta Activity on Air Particulate Filters

Air particulate filters are counted directly in a gas flow proportional counter after a delay of several days to allow for the decay of radon and its progeny. Samples were counted using a Protean WPC-9550 instrument which allows automated sample counting and simultaneous alpha/beta determination. If gross beta activity is identified significantly above the mean of the control, gamma isotopic analysis is performed on the individual samples.

4.6.3 Measurement of Gamma Emitting Radionuclides

Gamma isotopic analysis allows identification and quantification of gamma-emitting radionuclides that may be attributable to CGS effluents. Shielded, high purity germanium (HPGe) detectors are used to assay environmental samples for gamma emitting radionuclides. All samples are counted in standardized, calibrated geometries.

- **Liquids –** Measured aliquots of the liquid samples are poured into appropriately sized Marinelli beakers or plastic container. Sample results are corrected for decay during the collection period if applicable. Results are reported in pCi/liter.

- **Solids –** Soil, sludge, and sediment samples are dried and ground as needed. Foodstuff, biota (fish), and vegetation are chopped finely or pureed and then analyzed wet (no drying is done). For foodstuff (including fish), only the edible portion of the sample is used. Sample aliquots are placed in tared containers and weighed. Results are reported in pCi/kg.

- **Charcoal Cartridges –** Typically four charcoal cartridges are counted simultaneously using a cartridge holding jig that positions the cartridges in a standardized geometry to the side of the detector. Detector calibration files are maintained for both face count and side count positions. If radioiodines are identified in the assay of a group, each charcoal cartridge in the group is assayed separately. Results are corrected for decay during the sample collection period. Results are reported in pCi/m^3.

- **Air Particulate Filters –** At the end of each quarter, air particulate filters are composited on a station-by-station basis. The filters are stacked in a petri dish and analyzed by gamma spectroscopy. Results are reported in pCi/m^3 and represent the total quarterly gamma activity collected at each station. Results are decay corrected to the midpoint of the sample collection period. If a radionuclide related to CGS operation is positively identified, the filters are separated and counted individually.

4.6.4 Gross Alpha and Gross Beta Activity in Water

A measured aliquot of each sample is evaporated to a small volume then quantitatively transferred to a ribbed, stainless steel planchet. Final evaporation is normally done under a heat lamp. Residue mass is determined by weighing the planchet before and after mounting the sample. The planchet is counted for gross alpha and beta activity using a Protean WPC-9550 automatic gas flow proportional counter which allows automated sample counting and simultaneous alpha/beta determination. Results are corrected for sample self-absorption using the sample residue mass values. Results are reported in pCi/liter.

4.6.5 Tritium in Water

The sample is distilled, then 8.0mL of the distillate is mixed with 12.0mL of scintillation cocktail. The sample mixture is analyzed on a Packard Tri-Carb 2900TR automatic liquid scintillation counter. Results are reported in pCi/liter.

4.6.6 Low Level Radioiodine in Milk and Water

Four liters of sample are first equilibrated with stable iodide carrier. Anion exchange resin is then added and mixed for an adequate period to allow any iodine present in the sample to be captured by

the resin. The resin is then isolated from the liquid sample and transferred to a small counting container. The radioiodine content is determined by gamma spectroscopy analysis. Results are reported in pCi/liter.

4.6.7 Carbon-14

Carbon-14 levels in the environment around CGS are evaluated by comparison of carbon-14 content in apples obtained from local orchards to apples obtained from control locations. The analysis method used involves sample oxidation, capture of the resulting carbon dioxide, then liquid scintillation counting. Final results are calculated on a wet weight basis. Sample analysis is performed by an external laboratory.

4.6.8 Strontium-89/90, Iron-55, and Nickel-63

Strontium-89/90, iron-55, and nickel-63 are hard to detect analytes not routinely analyzed as part of the CGS REMP. When needed, these analyses are performed under contract by Teledyne- Brown Environmental Services Laboratory located in Knoxville, TN using the vendor's standard analysis procedures.

4.7 Data Analysis Methods

Counting results for low level samples are often within the counting error of the background determination; consequently, results for these samples can be positive or negative values. Though most REMP analytical results are below the detection limit, an actual calculated value has been reported. In some cases, the reported value is zero or a negative number. Reporting results in this manner is the preferred practice for low level environmental analyses as it gives an indication of positive or negative biases that may be present and prevents loss of individual results inherent in the use of "less than" (<) values. Also reported in most cases are the *a posteriori* MDA values. A nuclide is flagged as positively identified if its calculated value is greater than the MDA. A listing of the Energy Northwest nominal target LLDs (*a priori)* for each sample type is provided in Table 4-4; the ODCM required LLDs are also included for comparison.

Data for many sample types is trended after analysis. For analysis such as gross beta on air particulate filters where results are normally above the detection limit, indicator results are plotted with the control results for better comparison. Analysis results that are normally below detection limits are plotted against historical data to monitor if trends may be evident.

Environmental dosimeter data is presented in both units of mR/day and mR/standard quarter. Dosimeter results in mR/day are calculated by taking the total exposure (in mR) determined for each dosimeter, correcting for storage background and any transit (or trip) exposure received during distribution and retrieval, then dividing by the number of days the dosimeter was in the field. The mR/standard quarter values are calculated by multiplying the mR/day value by 91.25 days (365/4). All dosimeter results are reported in units of exposure (Roentgen) and not in units of dose (Rem).

4.8 Changes to the Sampling Program in 2025

The following is a synopsis of changes made to the sampling program in 2025:

- Ten dosimeters (Stations 139-148) were added to the ISFSI fence in the first quarter of 2025 following the ISFSI pad expansion. See Figure 4-4 for a map showing the dosimeters locations on the ISFSI fence.
- Deep well stations 31 and 32 were decommissioned in June 2025.
- Monitoring well sampling is no longer required under the NPDES permit after the end of the second quarter of 2025.

TABLE 4-1
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SAMPLING PLAN

SAMPLE TYPE	NUMBER OF REPRESENTATIVE SAMPLES AND SAMPLE LOCATIONS[a]	SAMPLE COLLECTION FREQUENCY	TYPE AND FREQUENCY OF ANALYSIS	REQUIRED BY
DIRECT RADIATION				
Dosimeter[b]	Thirty-four routine monitoring stations either with two or more dosimeters or with one instrument for measuring and recording dose rate continuously, placed as follows:	Quarterly.	Gamma dose quarterly.	
	An inner ring of stations, one in each meteorological sector in the general area of the Site Boundary (ST: 1, 2, 13-20, 22, 24, 25, 49-51).			ODCM 6.3.1-1 1
	An outer ring of stations, one in each of the meteorological sectors of NE, ENE, E, ESE, SE in the six to ten km (3.73 to 6.21 miles) range from the site (ST: 46, 45, 43, 8, and 41), and one in each of the meteorological sectors of N, NNE, SSE, S, SSW in the nine to thirteen km (5.59 to 8.08 miles) range from the site (ST: 53, 54, 55, 6, and 56).			ODCM 6.3.1-1 1
	The balance of the stations to be placed in special interest areas such as population centers, nearby residences, schools, and one or two areas to serve as control stations (ST: 4, 5, 7, 10, 40, 42, 44, and 9A).			ODCM 6.3.1-1 1
	Additional monitoring stations for the Independent Spent Fuel Storage Installation (ISFSI). (ST: 121-131, 136B-138B, 139-148).			ODCM 6.3.1-1 1
Dosimeter	9.6 miles SSE (ST-4) 6.5 miles SE (ST-40) 7.7 miles S (ST-6) 2.8 miles WNW (ST-7) 4.4 miles ESE (ST-8) 28 miles WSW (ST-9) 3.2 miles E (ST-10) 3.2 miles ENE (ST-11) 6.7 miles NNW (ST-12) At least 1 Dosimeter within each 22 1/2° sector around CGS located between 0.9 and 2.2 miles of CGS. (ST: 1-3, 13-25, 47, and 49-51)	Continuous Exposure Quarterly Collection	Exposure Rate (milliroentgen/period)	EFSEC 332
Dosimeter ISFSI	4 or more Dosimeter located on ISFSI security fence line.	Continuous Exposure Quarterly Collection	Exposure Rate (milliroentgen/period)	EFSEC 332

TABLE 4-1
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SAMPLING PLAN

SAMPLE TYPE	NUMBER OF REPRESENTATIVE SAMPLES AND SAMPLE LOCATIONS[a]	SAMPLE COLLECTION FREQUENCY	TYPE AND FREQUENCY OF ANALYSIS	REQUIRED BY
Dosimeter	0.44 miles WSW (ST-58) 8.87 miles S (ST-65) 0.90 miles ESE (ST-150) 0.83 miles E (ST-151) 0.30 miles NW (ST-155) 0.33 miles NNW (ST-156)	Continuous Exposure Quarterly Collection	Exposure Rate (milliroentgen/period)	OTHER-Special study stations
	0.17 miles WNW (ST-88) 0.23 miles WSW (ST-89) 0.16 miles WNW (ST-91) 0.22 miles WNW (ST-92) 0.23 miles WNW (ST-93) 0.24 miles WNW (ST-94) 0.26 miles NW (ST-95)			CGS initiative
	0.28 miles SSE (ST-119C) 0.31 miles S (ST-119B)			EFSEC 299
AIRBORNE				
Particulates and Radioiodine	Samples from six locations:	Continuous sampler operation with sample collection weekly, or more frequently if required by dust loading.	Radioiodine Canister: I-131 analysis weekly. Particulate Sampler: Gross beta radioactivity analysis following filter change, [c] Gamma isotopic analysis [d] of composite (by location) quarterly.	
	One sample from close to the Site Boundary location, having a high calculated annual average ground-level D/Q. (ST-57)			ODCM 6.3.1-1 2
	Three samples from close to the three Columbia River locations having the highest calculated D/Q. (ST: 8, 40, and 48)			ODCM 6.3.1-1 2
	One sample from the vicinity of a community having the highest calculated annual average ground level D/Q. (ST-4)			ODCM 6.3.1-1 2
	One sample from a control location, greater than 30 km (18.64 mi) from Columbia Generating Station (CGS) and in a sector not likely to be influenced by CGS. (ST-9)			ODCM 6.3.1-1 2
Particulates and Radioiodine	1.3 miles S (ST-1) 3.0 miles ESE (ST-23) 4.6 miles NE (ST-48) 9.6 miles SSE (ST-4) 6.5 miles SE (ST-40) 7.7 miles S (ST-6) 2.8 miles WNW (ST-7) 4.4 miles ESE (ST-8) 28 miles WSW (ST-9)	Continuous Sampling Weekly Collection	Radioiodine analysis (I-131) Weekly Particulate Gross Beta analysis weekly Particulate gamma isotopic of quarterly composite (by location)	EFSEC 332

TABLE 4-1
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SAMPLING PLAN

SAMPLE TYPE	NUMBER OF REPRESENTATIVE SAMPLES AND SAMPLE LOCATIONS[a]	SAMPLE COLLECTION FREQUENCY	TYPE AND FREQUENCY OF ANALYSIS	REQUIRED BY
Particulates and Radioiodine	7.72 miles ESE (ST-5) 1.1 miles ESE (ST-21B)	Continuous Sampling Weekly Collection	Radioiodine analysis (I-131) Weekly Particulate Gross Beta analysis weekly Particulate gamma isotopic of quarterly composite (by location)	CGS Initiative
WATERBORNE				
a. Surface [c]	One sample upstream (ST- 26) One sample downstream (ST-29)	Composite sample over one month period. [f]	Gamma isotopic analysis [d] monthly. Composite for tritium analysis quarterly.	ODCM 6.3.1-1 3a
b. Ground	Samples from one or two sources only if likely to be affected. [g] (ST-52)	Grab sample performed quarterly	Gamma isotopic[d] and tritium analysis quarterly.	ODCM 6.3.1-1 3b
c. Drinking	One sample of each of one to three of the nearest water supplies that could be affected by its discharge. (ST-27) One sample from a control location. (ST-26)	Composite sample over two-week period [f] when I-131 analysis is performed; monthly composite otherwise.	I-131 analysis on each composite when the dose calculated for the consumption of the water is greater than one mrem per year. [h] Composite for gross beta and gamma isotopic analysis [d] monthly. Composite for tritium analysis quarterly.	ODCM 6.3.1-1 3c
Sanitary Waste Treatment Facility Water	ST-102B	Composite Aliquots. Monthly collection.	Monthly gamma isotopic, gross beta, gross alpha, and tritium.	EFSEC 300
Ground Water Monitoring	MW-5, 10-14	Grab sample performed quarterly	Quarterly gamma isotopic and tritium.	NEI 07-07 and NPDES
Evaporation Pond Water	EVP-1A, 1B, 2 from individual ponds	Grab sample performed annually	Annual gamma isotopic and tritium	EFSEC 874
Evaporation Pond Water	EVP-3, 4 from individual ponds	Grab sample performed annually	Annual gamma isotopic and tritium	CGS Initiative
River Intake, Plant Discharge, Storm Drain, and Drinking Water	3.2 miles E (ST-26) 3.2 miles E (ST-27) 0.2 miles ENE (ST-101B) Combined influent to evaporation ponds 11.6 miles SSE (ST-29)	Composite Aliquots Monthly Collection	Gamma Isotopic, Gross Beta, and Tritium on all samples. Sr-90 on drinking water as needed (see note)	EFSEC 332

TABLE 4-1
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SAMPLING PLAN

SAMPLE TYPE	NUMBER OF REPRESENTATIVE SAMPLES AND SAMPLE LOCATIONS[a]	SAMPLE COLLECTION FREQUENCY	TYPE AND FREQUENCY OF ANALYSIS	REQUIRED BY
A representative sample will be collected using automatic composite sampling equipment that collects samples on a flow proportional or a set timed interval. When timed interval sampling is used, the sample collection frequency is short (e.g., hourly) relative to the compositing period (e.g., monthly). Flow proportional sampling is preferred. If the gross beta activity in a drinking water sample is greater than 8 pCi/l, strontium-90 analysis will be performed. This requirement does not pertain to river intake, storm drain, or plant discharge water.				
Storm Drain	0.2 miles ENE (ST-101B) (Evaporation ponds composite sample station)	Composite Aliquots Monthly Collection	Gamma Isotopic, Gross Beta, and Tritium on all samples.	EFSEC 874
Ground Water	0.1 miles N (ST-52) From two shallow groundwater well locations.	Quarterly Grab Samples	Gamma Isotopic and Tritium.	EFSEC 332
Shallow groundwater sampling locations include MW-5, 10-14.				
SOIL AND SEDIMENT				
d. Sediment from shoreline	One sample from downstream area with existing or potential recreational value. (ST-34)	Semiannually.	Gamma isotopic analysis [d] semiannually.	ODCM 6.3.1-1 3d
Evaporation Pond Sediment	EVP-3, 4	Grab sample performed annually	Annual gamma isotopic.	EFSEC 874
Cooling System Sediment Disposal Area	ST-119B	Grab sample of dried sediment within 30 days of disposal date.	Gamma Isotopic. After disposal.	EFSEC 299
River Sediment	~2.0 miles upstream (ST-33) ~1.0 miles downstream (ST-34)	Annual Grab Sample	Gamma Isotopic	EFSEC 332
Sample should consist of shoreline sediment and not deep-water sediment. Samples should be taken from areas known to be underwater during high water periods and where the potential for river silt or sediment accumulation is likely.				
Soil	Two samples from locations near CGS historically sampled, two samples from locations in Franklin County, one sample from control location.	Annual Grab Sample	Gamma Isotopic Sr-90 as needed (see note)	EFSEC 332
Locations near CGS historically sampled include air sample stations 1, 5, 21, 7, and 23. Samples should be alternated so that these locations are sampled bi-annually. Samples from Franklin County should be from agricultural areas that may be impacted by CGS operation. Control is ST-9, 28 miles WSW of CGS. Individual soil samples will be analyzed for strontium-90 if gamma results indicate the presence of radionuclides attributable to CGS operation at levels that are greater than 5 times the historic trend and greater than 5 times the analysis LLD.				

TABLE 4-1
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SAMPLING PLAN

SAMPLE TYPE	NUMBER OF REPRESENTATIVE SAMPLES AND SAMPLE LOCATIONS[a]	SAMPLE COLLECTION FREQUENCY	TYPE AND FREQUENCY OF ANALYSIS	REQUIRED BY
INGESTION				
a. Milk	Samples from milking animals from at least one location within 10 miles distance having the highest dose potential, if available. [m] (ST-36) Samples from location within 10 miles distance where milking animals are known to be on pasture. If unavailable, collect an additional sample from the location with the highest dose potential, if available. [m] (ST-36B) Sample from milking animals at a control location greater than 30 km (18.6 miles) and in a sector not likely to be influenced by CGS. [l] (ST-9B)	Monthly in the first half of the month. Monthly during the grazing season, in the second half of the month. Monthly	Gamma isotopic [d] [k], Iodine-131 analysis monthly	ODCM 6.3.1-1 4a
Milk	Milk from at least 1 Dairy within 10 miles of CGS. (ST-36) (see note) Milk control from Dairy > 20 miles from CGS and in sector not likely to be affected by CGS operation. (ST-9B)	Semi monthly when milk animals are on pasture, monthly at other times.	Gamma Isotopic and I-131 analysis on all samples collected. Sr-90 if Cs-134/137 identified in excess of 30 pCi/l	EFSEC 332
Samples are obtained from at least one milk producer located within ten miles of CGS, if available. If more than one producer is available, collection from more than one location should be made. If multiple locations (GT 2) are available, the 2 locations with the highest dose potential should be sampled. If no milk producers within 10 miles are available, samples of broadleaf vegetation or feed grown near 2 offsite locations with higher predicted ground level D/Q values may be sampled monthly during the growing season in lieu of milk sampling.				
b. Fish and Invertebrates	One sample of each of three recreationally important species (one anadromous and two resident) in vicinity of plant discharge area. (ST-30) One sample of same species in areas not influenced by plant discharge. (ST-38)	Sample annually, unless an impact is indicated, then semiannually. [i]	Gamma isotopic analysis [d] on edible portions.	ODCM 6.3.1-1 4b
Fish	One sample from 3 species (one anadromous and two resident) in the vicinity of the plant discharge area. (ST- 30) One sample from the same or similar species from areas not influenced by plant discharge. (ST-38)	Annually, unless an impact is indicated, then semiannually	Gamma Isotopic on edible portions.	EFSEC 332
If any of the analytical results of the Columbia River fish samples are significantly higher than the results of the control samples or results from previous years, sampling is to be conducted semiannually. Anadromous species may be collected at local hatcheries. Fish species with recreational value should preferentially be collected if available.				

TABLE 4-1
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SAMPLING PLAN

SAMPLE TYPE	NUMBER OF REPRESENTATIVE SAMPLES AND SAMPLE LOCATIONS[a]	SAMPLE COLLECTION FREQUENCY	TYPE AND FREQUENCY OF ANALYSIS	REQUIRED BY
c. Food Products	1 sample of each principal class of food products from any area that is irrigated by water in which liquid plant wastes have been discharged. (ST-9C, 37, 48G, 104, 37B)	At time of harvest. [j]	Gamma isotopic analysis [d] on edible portions.	ODCM 6.3.1-1 4c
Fruits and Vegetables	Samples of fruits and vegetables grown for human consumption from locations using Columbia River water obtained downstream of CGS discharge or from locations potentially impacted by CGS gaseous emissions. (ST-37, 37B) Samples of fruits and vegetables from control locations. (ST-9C)	During growing season, at time of availability. Annual control collection	Gamma Isotopic on edible portions.	EFSEC 332
Samples should be obtained from farms or gardens in close proximity to CGS. Sample of root crops, leafy vegetables, and fruits should be collected as they are in season; different varieties should be obtained. For locations where the predominate pathway is gaseous, leafy vegetables are the preferred sample media. For locations where the predominate pathway is liquid, root crops are the preferred sample media. Vegetation samples taken from locations within 2 miles of CGS may be taken in place of leafy vegetables. One control root crop, leafy vegetable, and fruit sample should be collected each year.				

TABLE 4-1
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SAMPLING PLAN

Table 4-1 Footnotes for ODCM requirements:

(a) Specific parameters of distance and direction sector relative to the reactor are provided for each sample location from ODCM Table 5-1. Refer to Radiological Assessment Branch Technical Position, Revision 1, November 1979. Deviations are permitted from the required sampling schedule if specimens are unobtainable due to circumstances such as hazardous conditions, seasonal unavailability, and malfunction of automatic sampling equipment. When sample media is unobtainable due to equipment malfunction, corrective actions should be taken to ensure equipment is returned to functional status prior to the end of the next sampling period. In some cases, alternate sample collection may be substituted for the missing specimen.

(b) One or more instruments, such as a pressurized ion chamber, for measuring and recording dose rate continuously may be used in place of, or in addition to, integrating dosimeters. For the purposes of this table, a dosimeter is considered to be one phosphor card with multiple readout areas; a phosphor card in a packet is considered to be equivalent to two or more dosimeters. Film badges shall not be used as dosimeters for measuring direct radiation. (The number of direct radiation monitoring stations may be reduced according to geographical limitations. The frequency of analysis or readout for dosimeter systems will depend upon the characteristics of the specific system used and should be selected to obtain optimum dose information with minimal fading.)

(c) Airborne particulate sample filters shall be analyzed for gross beta radioactivity 24 hours or more after sampling to allow for radon and thorium daughter decay. If gross beta activity in air particulate samples is greater than 10 times the yearly mean of control samples, gamma isotopic analysis shall be performed on the individual samples.

(d) Gamma isotopic analysis means the identification and quantification of gamma-emitting radionuclides that may be attributable to the effluents from the facility.

(e) The "upstream sample" shall be taken from the Tower Makeup (TMU) intake line. The "downstream" sample shall be taken from the Circulating Water Blowdown (CBD) discharge line.

(f) A composite sample is one in which the quantity (aliquot) of liquid is proportional to the quantity of flowing liquid and in which the method of sampling employed results in a specimen that is representative of the liquid flow. In this program composite sample aliquots shall be collected at time intervals that are very short (e.g., hourly) relative to the compositing period (e.g., monthly) in order to assure obtaining a representative sample.

(g) Groundwater samples shall be taken when this source is tapped for drinking or irrigation purposes in areas where the hydraulic gradient or recharge properties are suitable for contamination.

(h) The dose shall be calculated for the maximum organ and age group, using the methodology and parameters in the ODCM.

(i) If any of the analytical results for Columbia River fish samples are significantly higher than the results of the control location samples or the results of previous fish samples, sampling will be conducted semiannually.

(j) If harvest occurs more than once a year, sampling shall be performed during each discrete harvest. If harvest occurs continuously, sampling shall be monthly. Attention shall be paid to including samples of tuberous and root food products.

(k) If Cs-134 or Cs-137 is measured in an individual milk sample in excess of 30 pCi/L, then Sr-90 analysis shall be performed.

(l) If no milk producers within 10 miles are available and sampling per footnote (m) is performed, obtain samples of similar broadleaf vegetation or feed grown at locations greater than 30 km from CGS and in sectors not likely to be influenced by CGS monthly in lieu of control milk sampling.

(m) If no milk producers within 10 miles are available, samples of three types of broad leaf vegetation or feed grown near 2 offsite locations with higher predicted ground level D/Q values may be sampled monthly during the growing season in lieu of milk sampling.

TABLE 4-2
REMP SAMPLE STATIONS AND REQUIREMENTS

SECTOR[a]	STATION NUMBER[b]	DISTANCE MILES[c]	ODCM[d]	STATE[e]	OTHER[f]
N (1)	52	0.07	DGW	DGW	
	71(1S)	0.28			Dosimeter
	47	0.70		Dosimeter	
	57	0.70	AP/AI		
	18	1.16	Dosimeter	Dosimeter	
	53	7.54	Dosimeter		
NNE (2)	72(2S)	0.32			Dosimeter
	2	1.45	Dosimeter	Dosimeter	
	54	6.08	Dosimeter		
	EVP-1A	0.31		Dis W	
NE (3)	73(3S)	0.54			Dosimeter
	19	1.74	Dosimeter	Dosimeter	
	48	4.59	AP/AI	AP/AI, SO	
	48G[k]	4.63	GP		
	46	4.99	Dosimeter		
	EVP-1B	0.25		Dis W	
	EVP-2	0.35		Dis W	
	EVP-3	0.43		SE	
ENE (4)	74(4S)	0.38			Dosimeter
	21	1.45		Dosimeter, SO	
	20	1.93	Dosimeter	Dosimeter	
	11	3.16		Dosimeter	
	33	3.44		SE	
	45	4.45	Dosimeter		
	44	5.90	Dosimeter		
	101B	0.22		Dis W	
	MW-11	0.10		SGW	SGW
	EVP-4	0.60		SE	
E (5)	75(5S)	0.37			Dosimeter
	22	2.08	Dosimeter		
	10	3.16	Dosimeter	Dosimeter	
	26	3.19	SW, DW	SW	
	27	3.19	SW	Dis W	
	30[g]	3.5	FI	FI	
	43	5.63	Dosimeter		
	104[k]	5.08			GP
	151 (Site 4)	0.83			Dosimeter
	MW-12	0.12		SGW	SGW

TABLE 4-2
REMP SAMPLE STATIONS AND REQUIREMENTS

SECTOR[a]	STATION NUMBER[b]	DISTANCE MILES[c]	ODCM[d]	STATE[e]	OTHER[f]
ESE (6)	76(6S)	0.42			Dosimeter
	51	2.14	Dosimeter		
	34	3.32	SE	SE	
	23	3.03		Dosimeter, AP/AI, SO	
	8	4.39	Dosimeter, AP/AI	Dosimeter AP/AI, SO	
	42	5.85	Dosimeter		
	36	7.33	MI	MI	
	36B[n]	6.2	MI	MI	
	5	7.72	Dosimeter	SO	AP/AI
	38[g]	26	FI	FI	
	21B	1.1			AP/AI
	150 (Site 1)	0.90			Dosimeter
SE (7)	77(7S)	0.57			Dosimeter
	24	1.87	Dosimeter	Dosimeter	
	3	2.06		Dosimeter	
	41	5.79	Dosimeter		
	40	6.51	Dosimeter, AP/AI	AP/AI	
	MW-14	0.58		SGW	SGW
SSE (8)	119C	0.28		Dosimeter	
	102B	0.50		SFW	
	78(8S)	0.81			Dosimeter
	25	1.50	Dosimeter	Dosimeter	
	55	6.05	Dosimeter		
	4	9.57	Dosimeter, AP/AI	Dosimeter, AP/AI	
	29	11.57	DW	DW	
	37[h]	16	GP	GP, SO	
	37B[h]	10.1	GP	GP	
	MW-13	0.52		SGW	SGW
S (9)	119B	0.31		Dosimeter, SE	
	79(9S)	0.76			Dosimeter
	1	1.25	Dosimeter	Dosimeter, AP/AI, SO	
	6	7.72	Dosimeter	Dosimeter, AP/AI	
	65	8.87			Dosimeter
SSW (10)	80(10S)	0.83			Dosimeter
	50	1.26	Dosimeter	Dosimeter	
	56	6.65	Dosimeter		
SW (11)	81(11S)	0.74			Dosimeter
	MW-5	0.43		SGW	SGW
	13	1.26	Dosimeter	Dosimeter	

TABLE 4-2
REMP SAMPLE STATIONS AND REQUIREMENTS

SECTOR[a]	STATION NUMBER[b]	DISTANCE MILES[c]	ODCM[d]	STATE[e]	OTHER[f]
	9B	23.2	MI	MI	
WSW (12)	82(12S)	0.57			Dosimeter
	14	1.26	Dosimeter	Dosimeter	
	9A	28.35	Dosimeter, AP/AI	Dosimeter, AP/AI, SO	
	9C[i]	32	GP	GP	
	89[j]	0.23			Dosimeter
	58	0.44			Dosimeter
W (13)	83(13S)	0.52			Dosimeter
	15	1.24	Dosimeter	Dosimeter	
WNW (14)	91[j]	0.16			Dosimeter
	92[j]	0.22			Dosimeter
	93[j]	0.23			Dosimeter
	94[j]	0.24			Dosimeter
	84(14S)	0.55			Dosimeter
	16	1.21	Dosimeter	Dosimeter	
	7	2.83	Dosimeter	Dosimeter, AP/AI, SO	
	88[j]	0.17			Dosimeter
	MW-10	0.07		SGW	SGW
NW (15)	85 (15S)	0.43			Dosimeter
	95[j]	0.26			Dosimeter
	130	0.24			Dosimeter
	49	1.19	Dosimeter	Dosimeter	
	139	0.26			Dosimeter
	140	0.26			Dosimeter
	141	0.27			Dosimeter
	142	0.28			Dosimeter
	143	0.29			Dosimeter
	144	0.31			Dosimeter
	145	0.33			Dosimeter
	146	0.34			Dosimeter
	155	0.30			Dosimeter
NNW (16)	121	0.12			Dosimeter
	122	0.31			Dosimeter
	123	0.29			Dosimeter
	124[m]	0.28		Dosimeter	Dosimeter
	125	0.28			Dosimeter
	126	0.28			Dosimeter
	127	0.26			Dosimeter
	128[m]	0.25		Dosimeter	Dosimeter

TABLE 4-2
REMP SAMPLE STATIONS AND REQUIREMENTS

SECTOR[a]	STATION NUMBER[b]	DISTANCE MILES[c]	ODCM[d]	STATE[e]	OTHER[f]
	129[m]	0.17		Dosimeter	Dosimeter
	131	0.21			Dosimeter
	136B	0.29			Dosimeter
	137B[m]	0.24		Dosimeter	Dosimeter
	138B	0.17			Dosimeter
	147	0.34			Dosimeter
	148	0.34			Dosimeter
	86 (16S)	0.31			Dosimeter
	17	1.19	Dosimeter	Dosimeter	
	12	6.74		Dosimeter	
	156	0.33			Dosimeter

TABLE 4-2
REMP SAMPLE STATIONS AND REQUIREMENTS

TABLE 4-2 SAMPLE TYPE KEY

AP/AI - Air Particulate/Air Iodine	DW - Drinking Water
Dis W - Discharge Water	FI - Fish
GP - Garden/Orchard Produce	DGW - Deep Ground Water
MI - Milk	SE - Sediment
SFW - Sanitation Facility Water	SO - Soil
SW - Surface Water	VE - Vegetation
Dosimeter - Optically Stimulated Luminescence (OSL)	SGW - Shallow Ground Water

TABLE 4-2 FOOTNOTES:

(a) The area in the vicinity of CGS is separated into 16 sectors for reporting purposes. The 16 sectors cover 360 degrees in equal 22.5-degree sections, beginning with sector 1 (N) at 348.75 to 11.25 degrees and continuing clockwise through sector 16 (NNW).

(b) Alternate designations for some sample stations are given in parentheses, i.e., Dosimeter / OSL Stations 71-86 are also referred to as 1S-16S.

(c) Distance and sector indications are relative to the centerline of the reactor and were determined using GPS coordinate readings. Distance and sector indications for the Evaporation Ponds is to the center of each pond.

(d) ODCM - Offsite Dose Calculation Manual Table 6.3.1-1 requirement.

(e) STATE - EFSEC requirement. Station 102B is an EFSEC Resolution 300 requirement. Stations 119B and 119C are EFSEC Resolution 299 requirements. Sampling at Evaporation Ponds 1A, 1B, 2, 3, and 4 is specified in EFSEC Council Order 874. All other State required samples are specified in EFSEC Resolution 332. Only five of the nine listed soil stations are sampled each year.

(f) OTHER –Special study stations. Dosimeter Stations 121 through 131, 136B through 138B, and 139-148 satisfy ISFSI monitoring requirements 10CFR72.44(d)(2). Sampling at MW locations is performed to meet NEI 07-07 guidelines and NPDES requirements.

(g) Station 30 is the Columbia River at the vicinity of the plant discharge. Indicator resident fish are typically collected at various locations within River Mile (RM) 351–354; the distance listed is an approximation. Indicator anadromous fish are typically collected at the Ringold Fish Hatchery. Station 38 is the Snake River. Control resident fish are typically collected at various locations below Ice Harbor Dam; the distance listed is an approximation. Control anadromous fish are typically collected at the Lyons Ferry Fish Hatchery.

(h) Fruit and Vegetable indicator samples are typically collected from farms and gardens in the Riverview area of Pasco. Distance listed here is general distance of Riverview area to CGS. Station 37 designation is also used for any samples collected in Franklin County that could potentially be affected by CGS liquid or gaseous effluents. Station 37B is the designation given for a garden located at the Washington State University branch campus in Richland, WA.

(i) Station 9C is the designation given for control fruits and vegetables. Distance listed is general distance to the Sunnyside-Grandview area where most of the control fruits and vegetables are obtained.

(j) Stations 88-89 were established at the CGS initiative to monitor remediation activities at the DOE 618-11 burial ground. However, no remediation work was conducted at the burial ground in 2025. Quarterly dosimeters were deployed at both stations throughout the year, although no air samples were collected from these locations during this period. In the 4th quarter of 2024, additional dosimeters (designated as Stations 91-95) were deployed, also under the CGS initiative, to further monitor remediation work at the DOE 618-11 burial ground.

(k) Station 48G is listed in ODCM table 5-1 as an alternate (garden produce) location for atmospheric deposition. This location consists of a small garden near the Ringold Fish Hatchery. Station 104, though outside the 5-mile radius of CGS, is the garden location with the highest projected dose commitment.

(l) MW-5, 10-14 are all listed as State required shallow groundwater monitoring stations. The actual EFSEC 332 requirement is to obtain 2 shallow ground water samples quarterly from any of these locations.

(m) EFSEC 332 requirement is to have 4 or more Dosimeters located on the ISFSI security fence. Any 4 of the 14 Dosimeter stations CGS has established on the ISFSI fence line can satisfy this requirement.

(n) Station 36B is the designation given for second monthly milk indicator sample from a location where the milking animal was known to have been on pasture, if available.

TABLE 4-3
2025 FIVE MILE LAND USE CENSUS RESULTS

SECTOR[a]	NEAREST RESIDENT[b]	GARDEN[d] (>500 ft^2)	DAIRY ANIMALS	LIVESTOCK[c]
NE	4.52	none	none	none
ENE	3.89	none	none	4.64
E	4.66	none	none	none
ESE	4.23	none	none	4.46
SE	none	none	none	none

FOOTNOTES

(a) Within a five-mile radius of the plant, only the four sectors listed above contain activities related to land use census requirements. The fifth sector, SE, has commercial farmland with no residence within 5 miles. The other eleven sectors lay fully within the federally owned Hanford Site. Only those sectors containing potential land use census activities are presented here.

(b) Estimated distances in miles from center of the CGS reactor based on GPS readings.

(c) Approximately 25–27 cows were observed on pasture in the ENE sector, along with 3 horses belonging to a resident. An additional 2 horses were observed in the ESE sector.

(d) No gardens larger than 500 ft² were identified in 2025. However, commercial agriculture is extensively practiced in several of the sectors listed in Table 4-3. Observed agricultural activities primarily included apple and soft fruit orchards, corn and alfalfa fields, and grape vineyards.

TABLE 4-4
COMPARISON OF LABORATORY NOMINAL LOWER LIMITS OF DETECTION WITH OFFSITE DOSE CALCULATION MANUAL REQUIREMENTS

MEDIA (UNITS)	ANALYSIS	ENERGY NORTHWEST LLDs[a]	ODCM REQUIRED LLDs
Air	Gross Beta	0.002	0.01
(pCi/m^3)	Cs-134	0.001	0.05
	Cs-137	0.001	0.06
	I-131	0.03	0.07
Water:	Gross Beta	2.4	4
(pCi/liter)	Tritium	300	2000[b]
	Sr-90	1	---
	Ni-63	5	---
	Fe-55	200	---
	I-131[c]	1	---
	Mn-54	7	15
	Fe-59	10	30
	Co-58	7	15
	Co-60	7	15
	Zn-65	10	30
	Zr-Nb-95	7	15
	Cs-134	7	15
	Cs-137	7	18
	Ba-La-140	10	15
Soil/Sediment:	Mn-54	20	---
(pCi/kg dry)	Co-60	20	---
	Zn-65	30	---
	Cs-134	20	150
	Cs-137	20	180
	Sr-90	10	---
Fish:	Mn-54	25	130
(pCi/kg wet)	Fe-59	100	260
	Co-58	35	130
	Co-60	25	130
	Zn-65	50	260
	Cs-134	30	130
	Cs-137	25	150
Milk:	I-31[c]	0.5	1
(pCi/liter)	Cs-134	8	15
	Cs-137	8	18
	Ba-La-140	10	15
	Sr-90	1	---
Garden Produce:	Cs-134	20	60
(pCi/kg wet)	Cs-137	20	80
	I-131	20	60

[a] These are the nominal target LLDs (a priori) for analyses performed in the Energy Northwest Environmental Services Laboratory and are based on conservative assumptions. These calculations included corrections for decay during the collection period and delay prior to analysis using factors that are normally encountered for the different media types. Actual LLDs (a posteriori) may be higher or lower for specific samples.

[b] If no drinking water pathway exists, a value of 3,000 pCi/liter may be used.

[c] This ENW Iodine-131 LLD achieved by anion resin separation and does not represent a direct analysis of the sample media.

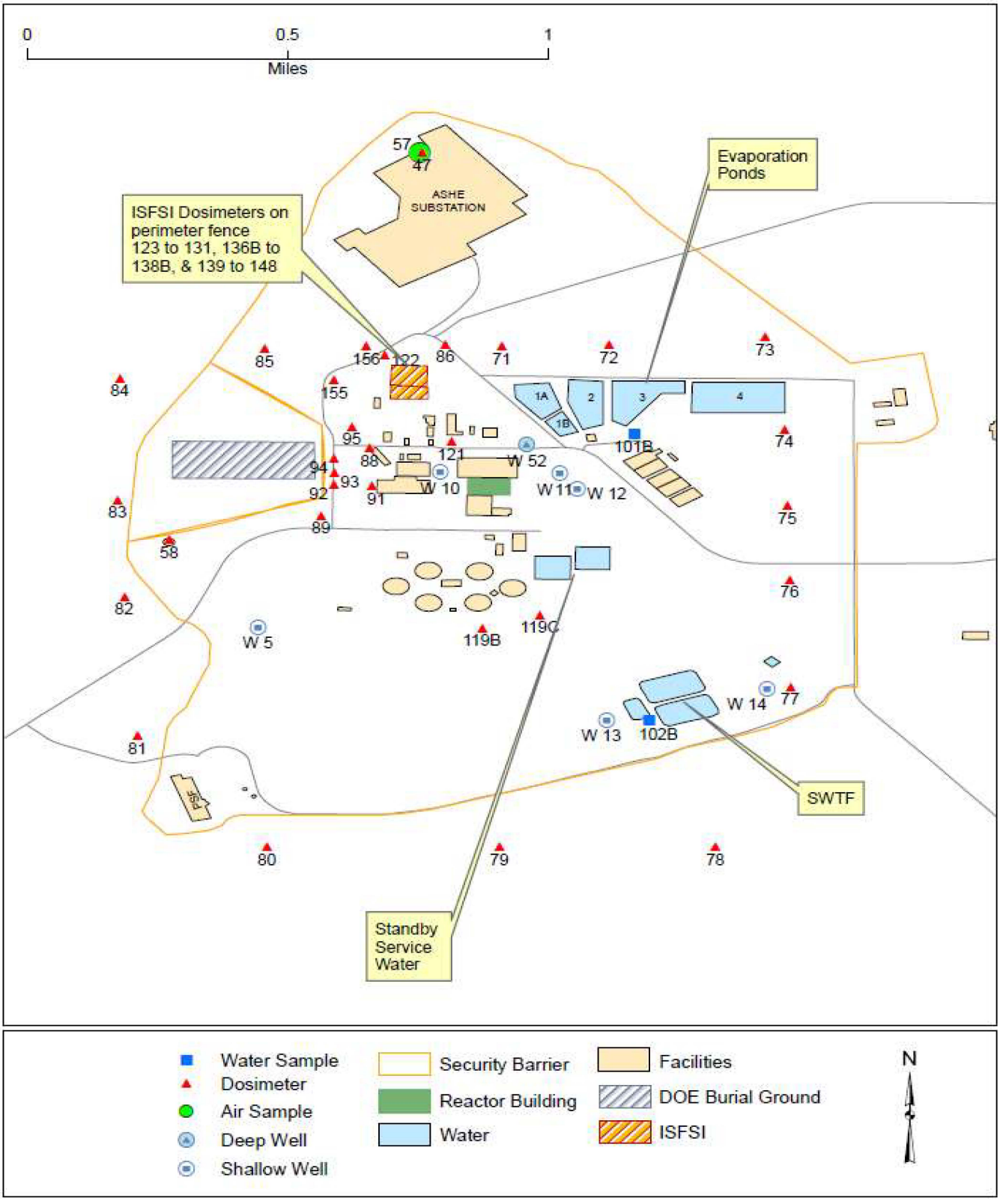

FIGURE 4-1 SELECT REMP SAMPLING LOCATIONS WITHIN 0.8 MILES OF CGS

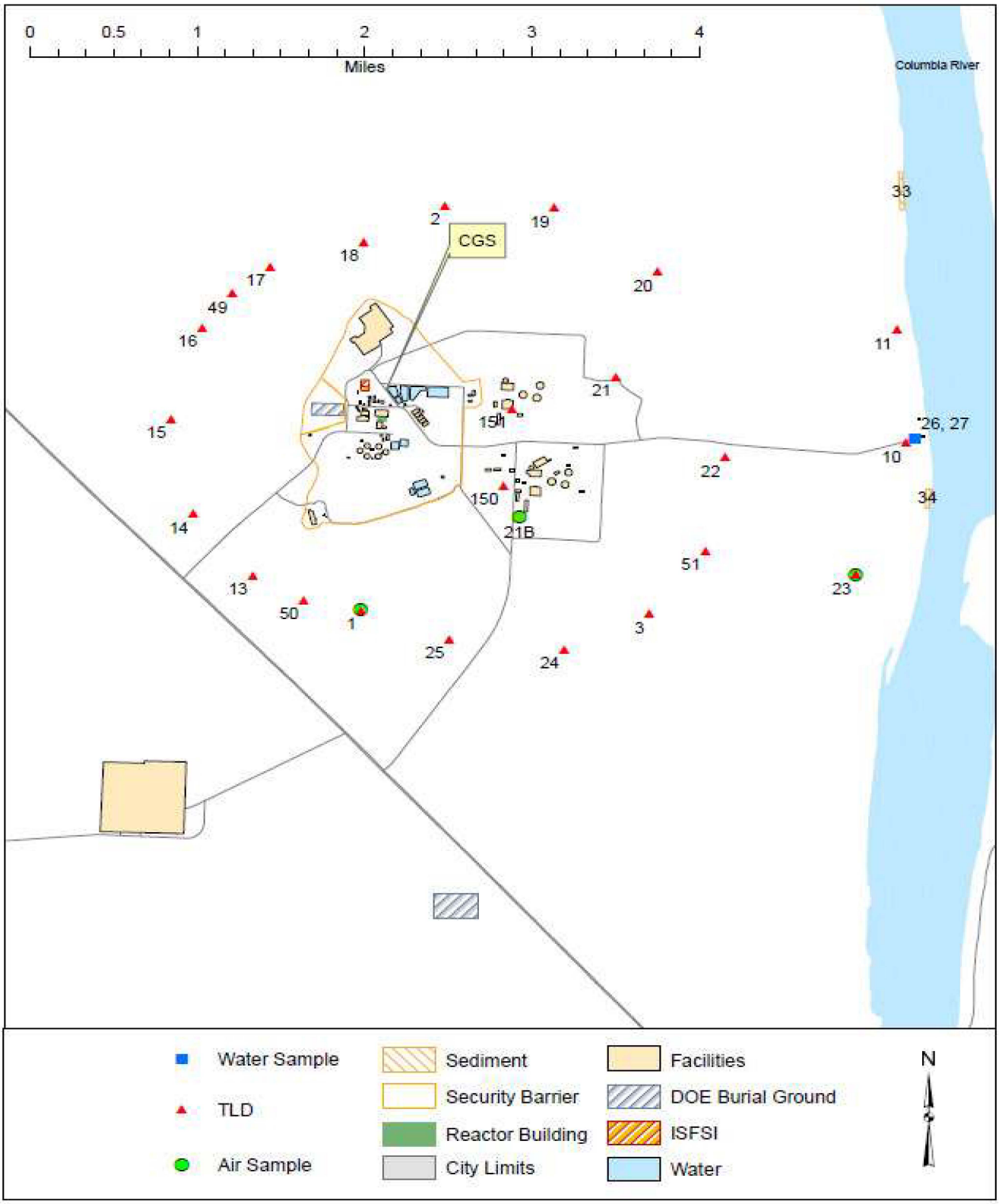

FIGURE 4-2 SELECT REMP SAMPLING LOCATIONS BETWEEN 0.8 AND 2.8 MILES

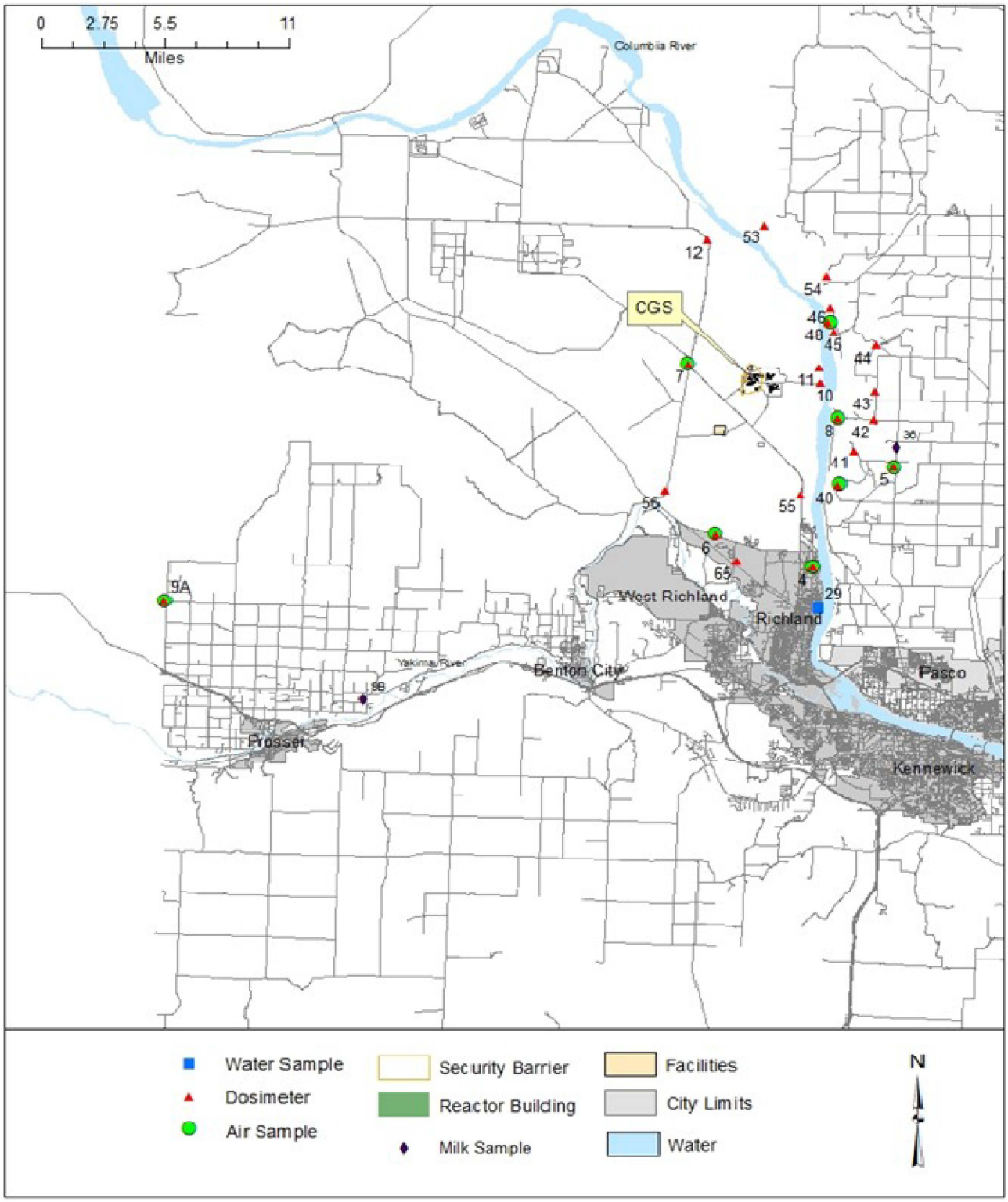

FIGURE 4-3 SELECT REMP SAMPLING LOCATIONS BEYOND 2.8 MILES

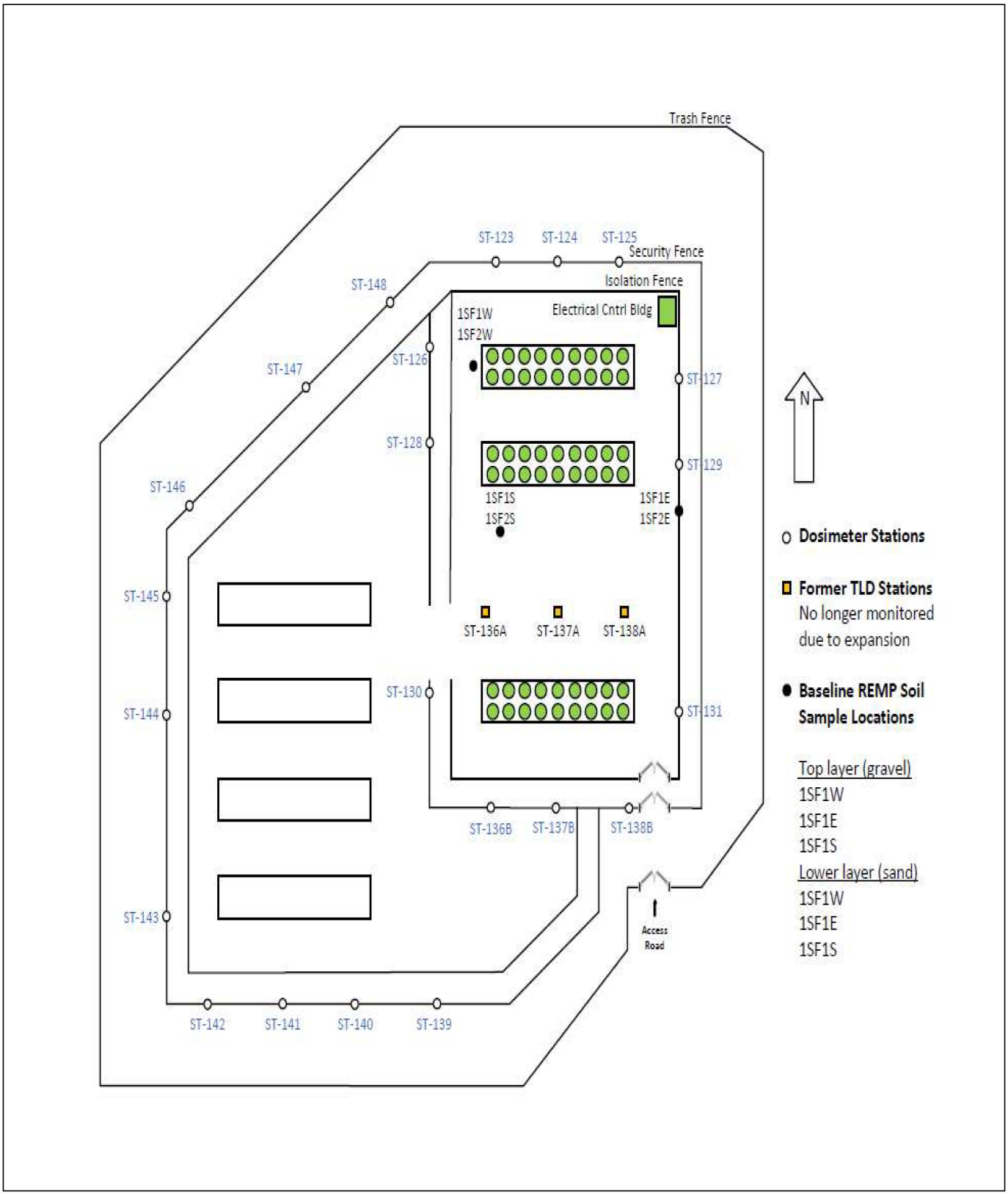

FIGURE 4-4 ISFSI DOSIMETER STATION LAYOUT

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5.0 RESULTS AND DISCUSSION

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5.0 RESULTS AND DISCUSSION

The 2025 Annual Radiological Environmental Operating Report for CGS covers the period from January 2025 to December 2025. Table 5-2 summarizes the ODCM required REMP samples and CGS groundwater monitoring analysis results in the format specified by the NRC. [5, 6] Results for naturally occurring radionuclides unrelated to CGS operations are excluded from the summary table.

The LLD values listed in Table 5-2 are the ODCM required detection limits and are not the MDL listed in Table 4-4. Analytical results for all REMP samples are presented in Appendix A of this volume.

The following sections provide a more detailed summary of the results.

5.1 Direct Radiation

Direct radiation is monitored at 95 dosimeter stations surrounding CGS. Dosimeters at all stations are exchanged quarterly. Of these, 16 stations designated as "S" stations are located between 0.3 and 0.8 miles from the centerline of the reactor. All "S" stations lie within the property boundary (see Figure 4-1 for station locations).

Figure 5-1 displays the 2025 "S" station mean quarterly dosimeter results, organized by 16 geographical sectors around the plant. The figure also shows the pre-operational mean, the operational TLD era (1984–2020) high, low, and mean values, and the OSL era (2021–2024) ranges for comparison.

In all 16 sectors, the 2025 "S" station dosimeter results are consistent with the OSL era cluster and continue to exceed both pre-operational and TLD means. Excluding the NNW sector, the average deviation relative to the OSL era mean was -1.0% in 2025. The deviation from 2025 to 2024 was -1.1%, confirming stability under the current methodology. The NNW sector is the closest "S" station to the ISFSI and the higher result here is attributed to the station's proximity to this facility.

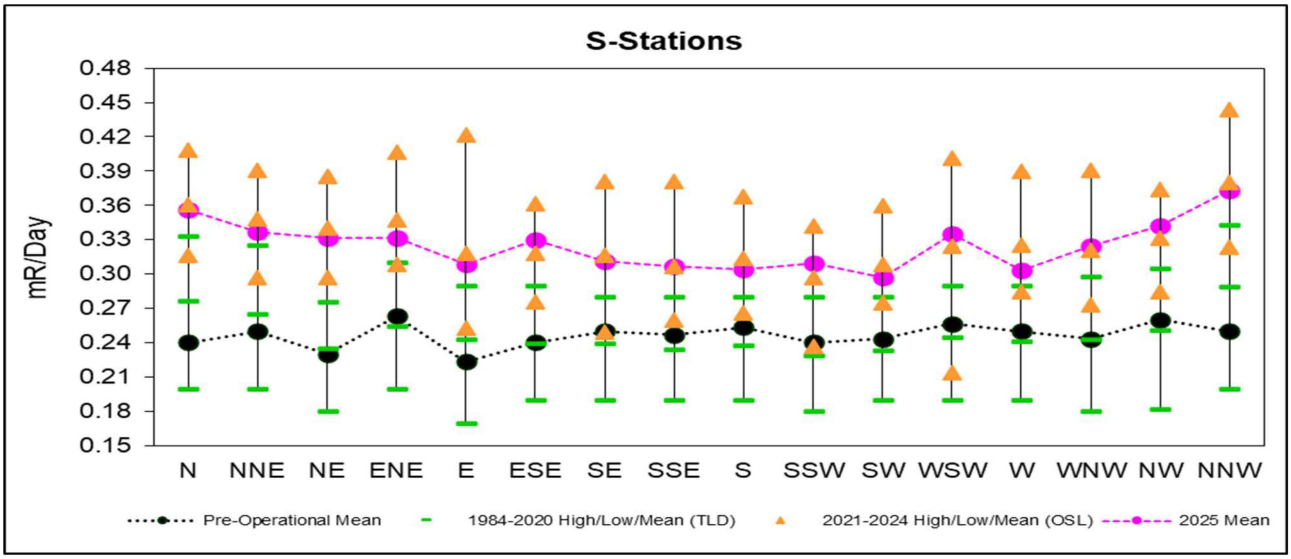

Figure 5-1 "S" Stations Quarterly Dosimeters 2021-2024 High/Low/Mean and 2025 Mean by Sector
Note: Apparent increases since 2021 reflect OSL implementation and ANSI/HPS N13.37-2014[24] background subtraction, not plant-related dose.

The 19 locations designated as “near-plant” stations are located at distances between 0.9 and 2.1 miles from the centerline of the reactor (see Figure 4-2 for station locations). Figure 5-2 illustrates the exposure rates for the “near-plant” dosimeter locations separated into 16 geographical sectors around the plant. The figure also provides historical context, including the pre-operational mean, the TLD era (1984–2020) high, low, and mean values, and the OSL era (2021–2024) sector ranges.

Across all sectors, the 2025 “near-plant” dosimeter results remain consistent with the OSL-era cluster and continue to exceed both pre-operational and TLD means. The average deviation relative to the OSL era mean was -0.3% in 2025. The deviation from 2025 to 2024 was -2.2%, indicating continued stability in near-plant dose trends under the current methodology.

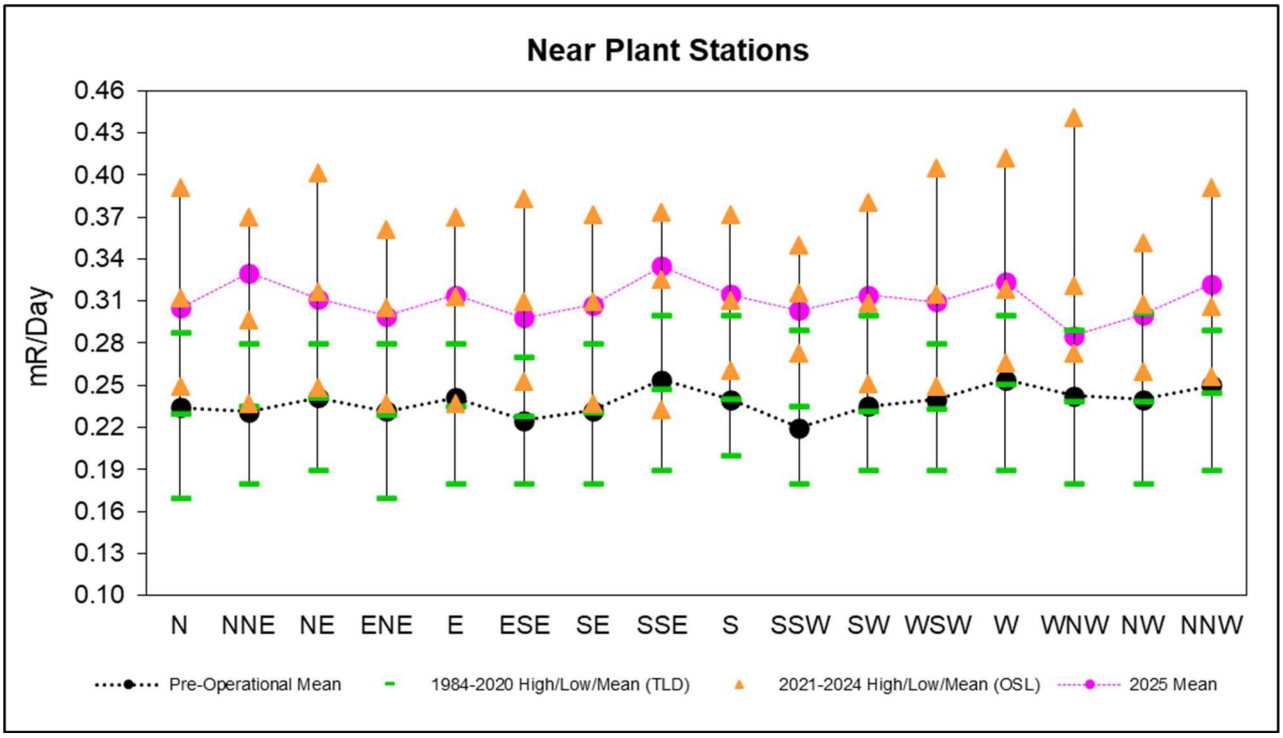

Figure 5-2 Near-Plant Stations Quarterly Dosimeters 2021-2024 High/Low/Mean and 2025 Mean by Sector
Note: Apparent increases since 2021 reflect OSL implementation and ANSI/HPS N13.37 2014[24] background subtraction, not plant-related dose.

The 22 dosimeter locations designated as remote locations are located between 2.83 and 28.35 miles from the centerline of the reactor (see Figure 4-3 for station locations). Figure 5-3 displays the 2025 mean quarterly dosimeter results for these locations, organized by geographical sector around the plant. The figure also provides historical context, including the pre-operational mean, the TLD era (1984–2020) high, low, and mean values, and the OSL era (2021–2024) sector ranges.

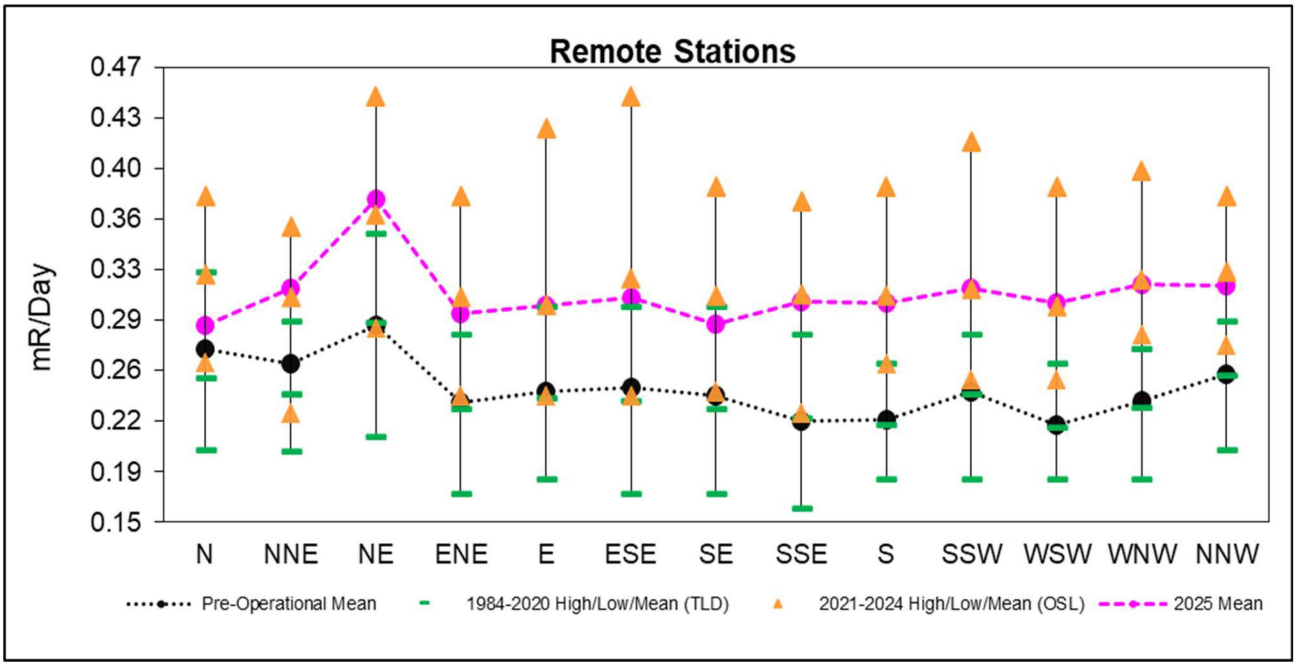

Figure 5-3 Remote Stations Quarterly Dosimeters 2021-2024 High/Low/Mean and 2025 Mean by Sector
Note: Apparent increases since 2021 reflect OSL implementation and ANSI/HPS N13.37 2014[24] background subtraction, not plant-related dose.

Across all sectors, the 2025 remote-station results remain consistent with the OSL-era cluster and continue to exceed both pre-operational and TLD means. Station 46 in the Wahluke Reserve (NE sector) continued to exhibit the highest exposure rate, consistent with long-standing trends attributed to natural differences in underlying rock and soil composition in that area.

The average remote stations deviation relative to OSL period was -2.3%. The average deviation from 2025 to 2024 was -1.8%. The 2025 results indicate no observable dose contributions due to plant operations at locations outside the CGS controlled area. Dose contributions inside the CGS controlled area were limited to those locations known to be influenced by the ISFSI and/or radiation from the turbine building during operation. Environmental radiation exposure rates for 2025, the pre-operational period, and the long-term operational period are summarized in Table 5-3. Refer to Appendix A, Tables A-1.1 and B-1.1 for the 2025 quarterly dosimeter results. Dosimeter results for special interest locations are discussed in further detail in Section 5.9.

5.2 Airborne Particulate/Iodine

Air samples are collected weekly at twelve stations in the vicinity of CGS, with eleven indicator stations and one control station located 28 miles WSW of CGS. Weekly analyses include gross beta on particulate filters and radioiodine on charcoal cartridges. In addition, particulate filters are composited each quarter and analyzed for gamma-emitting radionuclides.

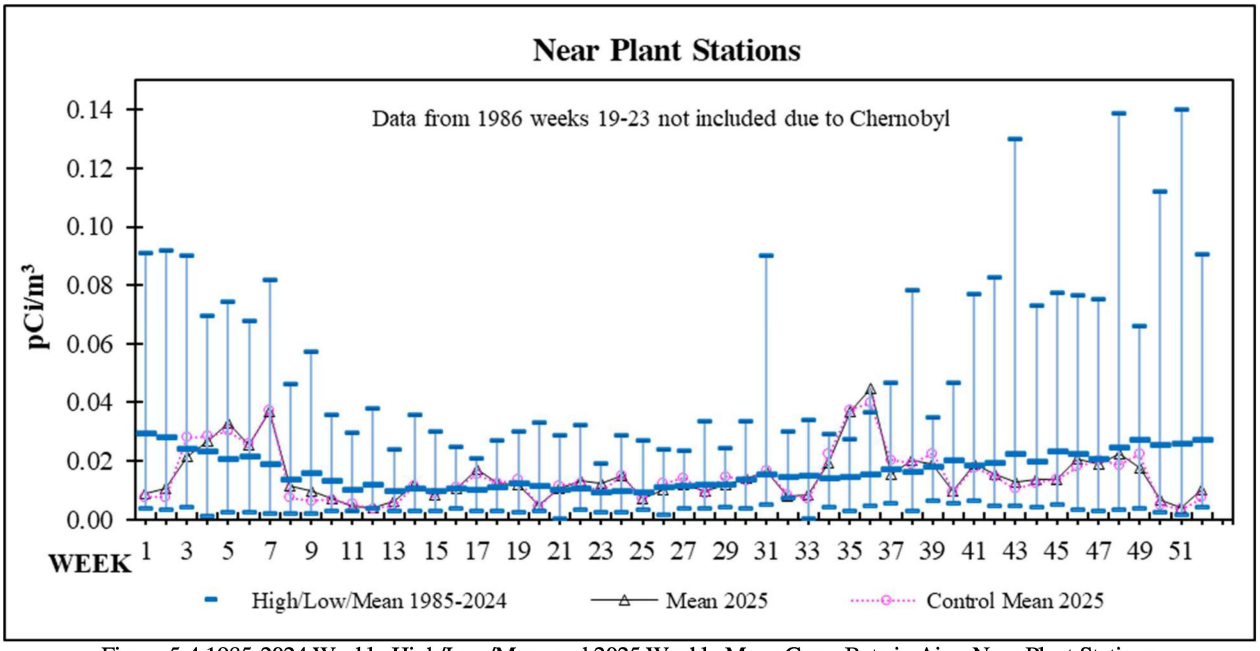

Figure 5-4 1985-2024 Weekly High/Low/Mean and 2025 Weekly Mean Gross Beta in Air – Near-Plant Stations

The 2025 mean weekly particulate filter gross beta results for the five air sampling stations within three miles of CGS are shown in Figure 5-4 (see also Appendix A, Tables A-2.1 and A-2.2). Results from these near-plant stations are consistent with those from the remote locations and follow the same pattern observed at the control station.

Figure 5-5 presents the 2025 mean weekly gross beta results for the six stations located between 3 and 9.6 miles from CGS (see also Appendix A, Tables A-2.1 and A-2.2). These remote-station results are similar to those from the near-plant stations and likewise track the trend of the control station. No relationship was observed between gross beta activity levels and distance from CGS.

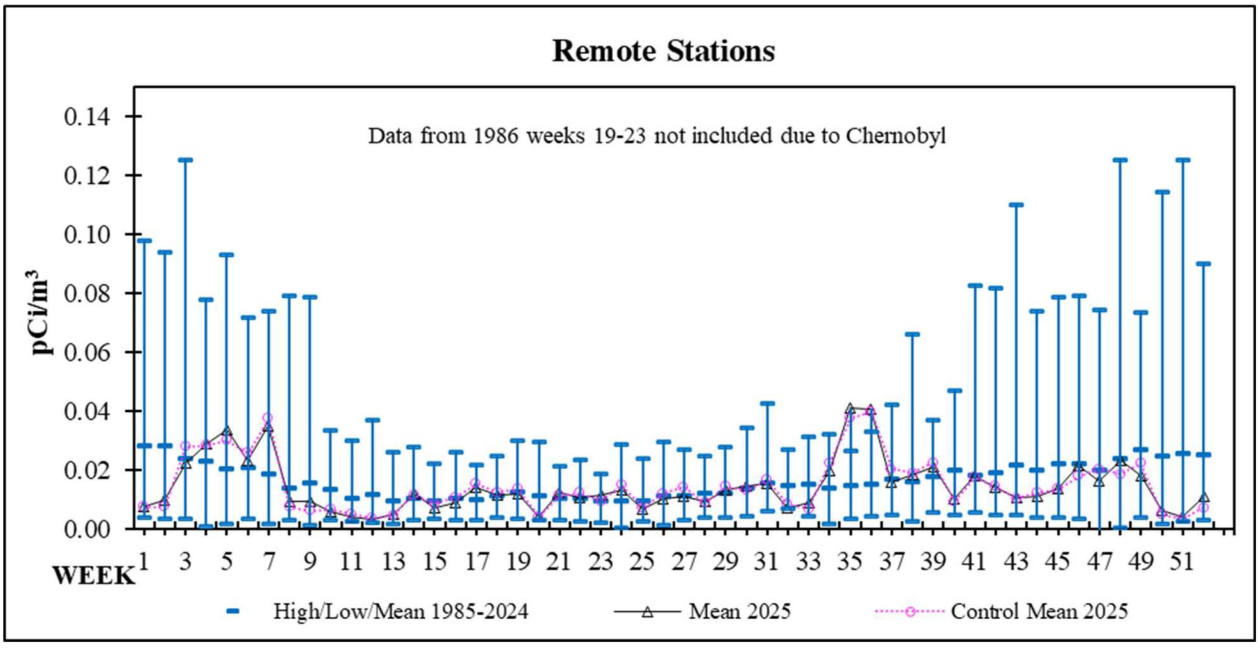

Figure 5-5 1985-2024 Weekly High/Low/Mean and 2025 Weekly Mean Gross Beta in Air - Remote Stations

For both the near-plant and remote air station locations, higher results and greater variability in air gross beta activity historically have been observed during fall and winter months due to weather induced background fluctuations. Gross beta levels generally increase during periods of inversion due to natural decay products being trapped near the earth surface. Gross beta results plotted over a period of several years typically show a cyclical pattern with higher results observed in the fall and winter compared to the spring and summer.

In 2025, gross beta results followed this cyclical pattern but with distinct seasonal deviations; results were observed above the average trend range during week 7 and weeks 35-36. The increases observed during these periods occurred at all sample locations including the control and are attributed to weather phenomena and not the result of CGS operation.

The high results in Week 7 corresponded with a period of significant freezing fog and radiation inversions, which effectively trapped natural radionuclides at ground level. The elevated levels in Weeks 35 and 36 occurred during a regional air stagnation event characterized by widespread haze and smoke from regional wildfires; these conditions limited atmospheric venting and concentrated background particulates.

Quarterly gamma isotopic analysis of the air particulate filters identified the presence of beryllium-7 in all the control and indicator composite samples (See Appendix A, Tables A-3.1, A-3.2). Beryllium-7 is a naturally occurring radionuclide formed in the upper atmosphere by interaction with cosmic radiation and is not a radionuclide associated with CGS operation. No radioisotopes associated with CGS operation were identified in any of the quarterly air particulate gamma isotopic sample results.

The 2025 weekly iodine cartridge isotopic results showed no indication of radioiodines in any of the samples. Results for iodine-131 were, in all cases, below the LLD (See Appendix A, Tables A-4.1, A-4.2). The 2025 air particulate and iodine sample results show no evidence of measurable environmental radiological air quality impact that can be attributed to CGS plant operation.

5.3 Water

5.3.1 Surface Water

Monthly composite surface water samples are collected at five different locations and analyzed for tritium, gross beta, and gamma emitting radionuclides. No plant discharge sample (Station 27) was collected in May due to the Circulating Water Basin being drained to support the R-27 refueling and maintenance outage, as well as a failure of the composite sampler late in the month. Figure 5-6 below shows a graph of the 2025 gross beta results for the plant intake, plant discharge, and river/drinking water stations.

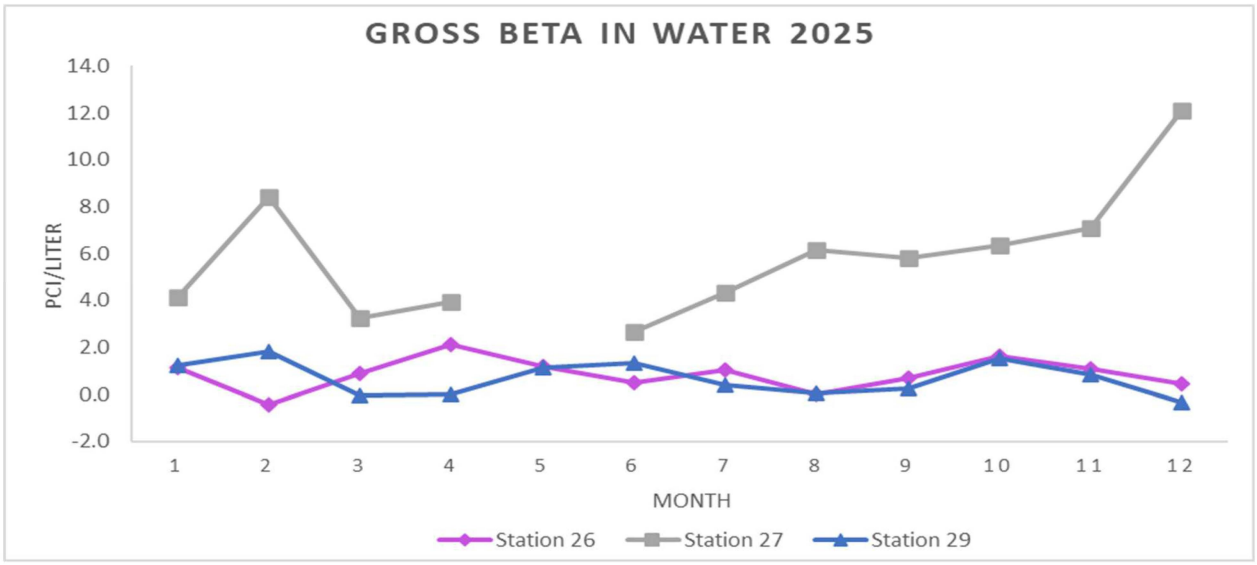

Figure 5-6 Gross Beta in River/Drinking (Stations 26 & 29) and Plant Discharge Water (Station 27) for 2025

All drinking and river water (Stations 26 and 29) gross beta results were below the analysis detection limits (See Appendix A, Tables A-5.1, A-5.2). Gross beta levels in the plant discharge water (Station 27) were observed above detection limits in all eleven monthly samples. Positive results at this location are expected due to concentration of natural radioactivity in the water by evaporative loss and the scrubbing action of the cooling towers, which incorporates atmospheric particulate material into the discharge water. Historically, higher gross beta results at Station 27 have correlated with higher calcium concentrations, confirming that these results are a byproduct of natural mineral concentration within the cooling system. The Station 27 sample results are representative of the radioactivity present in plant discharge water before any mixing with river water occurs.

Monthly tritium results for all plant intake, plant discharge, and river/drinking water samples were below the analysis method *a priori* LLD. Tritium results for the three sample locations are illustrated in Figure 5-7 below. The quarterly averages for the locations are listed in Appendix A, Tables A-6.1, A-6.2.

Gamma spectrometry results for all plant intake, plant discharge, and river/drinking water samples identified only naturally occurring radionuclides; no gamma-emitting radionuclides related to CGS operation were positively identified in these samples (See Appendix A, Tables A-7.1, A-7.2, A-13.1, A-13.2).

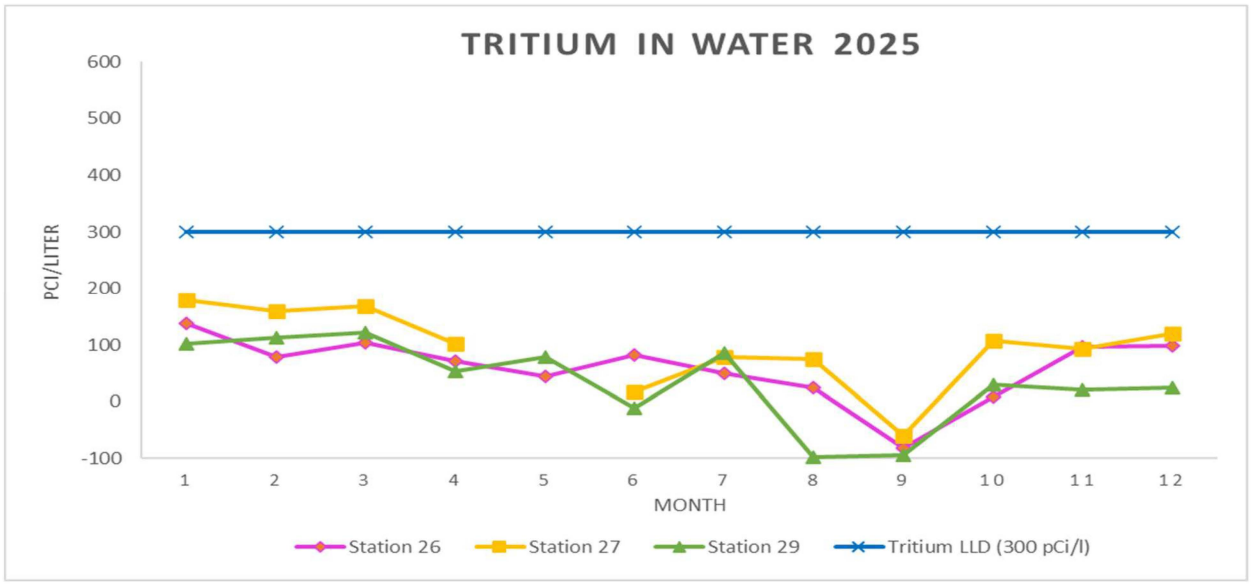

Figure 5-7 Tritium in River/Drinking (Stations 26 & 29) and Plant Discharge Water (Station 27) for 2025

Analytical results for the plant intake, plant discharge, and river/drinking water samples indicated no measurable impact to the environment due to CGS plant operations in 2025. Composite water samples are also collected from a sanitary waste and storm drain location. The analytical findings for these samples are presented in greater detail in Section 5.9.

5.3.2 Groundwater

Samples were taken from one deep well located at station 52, which was sampled throughout all four quarters of 2025. Deep well sampling is performed to meet ODCM and EFSEC Resolution No. 332[9] requirements. Quarterly samples were also collected from six shallow groundwater monitoring wells located near CGS as part of the CGS groundwater monitoring program. All well samples were analyzed for tritium and gamma emitting radionuclides. Well locations sampled are shown in Figures 4-1 and 4-2.

Analytical results of the deep water well were consistent with results seen in previous years. Tritium results were below detection limits and no gamma emitting radionuclides related to CGS operation were identified (See Appendix A, Tables A-6.1, A-6.2, A-14.1, and A-14.2).

The CGS groundwater monitoring program is conducted to meet the Nuclear Energy Institute (NEI) Groundwater Protection Initiative (NEI 07-07) [17] guidelines and to support NPDES requirements. Water samples from the unconfined aquifer are collected quarterly from six shallow monitoring wells located around the CGS site. None of these monitoring wells are used as a source of drinking water. CGS is unique in the commercial nuclear power industry in that it is in an area where the unconfined aquifer under the site is known to be contaminated with tritium as a result of past DOE activities on the Hanford Site. [19] The CGS groundwater program is intended to assess any contribution CGS may be making to the known groundwater contamination issue.

Gamma Spectroscopy results for the shallow monitoring wells identified only natural occurring radionuclides (See Appendix A, Tables B-10.1, and B-10.2). The 2025 groundwater sample results show no evidence that CGS made a measurable radiological impact on groundwater.

Tritium results for the shallow monitoring wells ranged from < LLD to 10,100 pCi/liter (See Appendix A, Table B-11.1). Tritium results from each well were consistent during the year and within the trend range observed in previous years. The highest tritium concentrations were measured at MW-5 which is hydraulically up-gradient of CGS. The tritium identified in the shallow monitoring well samples is the result of past DOE activities on the Hanford site and is not attributable to CGS operation. Historically, the only identified impact that CGS operation has had on groundwater tritium concentrations was through the discharge of storm drain water. With the establishment of lined evaporation ponds in 2014, this pathway was effectively eliminated. All storm drain water from the CGS site has been directed to the lined evaporation ponds since 2014.

5.4 Soil

In 2025, gamma spectroscopy analysis was performed on soil samples from five different locations (See Appendix A, Tables A-8.1, A-8.2). Two of the samples were collected from locations near CGS, two were from locations east of CGS in Franklin County, and one sample was collected from a control location. Naturally occurring radionuclides were identified in all samples. The soil sample results indicate no measurable impact from CGS plant operation.

5.5 River Sediment

Gamma spectroscopy results of river sediment identified naturally occurring radionuclides and cesium-137 was identified (See Appendix A, Tables A-9.1, 9.2). Relative to the circulating water discharge point, cesium-137 was detected in the downstream samples (Station 34). The downstream cesium-137 activity levels were within the range identified in previous years and within the range known to be present in Hanford area sediment and soil. [21] Cesium-137 was not identified in any samples of plant cooling water discharged to the Columbia River. CGS has not made a radioactive discharge to the Columbia River since 1998. The sediment sample results indicate no measurable impact from CGS plant operation.

5.6 Fish

The gamma spectroscopy results for fish samples collected at both the indicator location (Columbia River) and the control location (Snake River) identified only naturally occurring radionuclides (See Appendix A, Tables A-10.1 and A-10.2). The same three species; walleye, bass, and salmon, were collected at both locations. No radiological impacts attributable to CGS operations were identified in the 2025 fish sample results.

5.7 Milk

There was no radioiodine activity identified in any of the milk samples collected in 2025 (See Appendix A, Tables A-11.1, A-11.2). Gamma spectroscopy results of milk radionuclides other than radioiodine did not identify the presence of any radionuclides of interest (See Appendix A, Tables A-12.1, A-12.2). Naturally occurring potassium-40 was identified in all milk samples.

5.8 Garden Produce

In 2025, gamma analysis was performed on twenty-four samples of fruits, vegetables, and root crops (See Appendix A, Tables A-15.1, A-15.2, A-16.1, A-16.2, A-17.1, A-17.2). No other radionuclides related to CGS operation were identified in any of the samples. Naturally occurring potassium-40 was identified in all samples.

5.9 Special Interest Stations

Sampling and analysis are performed at the locations covered in this section to comply with EFSEC requirements or as a CGS initiative. SWTF and storm drain water sampling were incorporated into the routine sampling schedule in 1992. In 1995, the cooling tower sediment disposal area was added. Direct monitoring in the vicinity of the planned ISFSI was first performed in 1998 to collect background data and direct monitoring was established on the ISFSI fence line after construction was completed in 2002. Additional dosimeter locations were established in 2008/2009 and again in 2024 to monitor potential remediation work at the DOE 618-11 burial ground west of CGS. Discussion of the results from each of these locations is given in the following sections.

5.9.1 Evaporation Pond (Station 101B)

The Station 101B composite sampler samples storm drain, air wash, and non-radioactive system wastewater originating from within the CGS protected area. Water from these sources has been directed to two lined evaporation ponds since November 2014. Wastewater originating outside the CGS protected area is typically directed to three other lined evaporation ponds that are not sampled by the Station 101B sampler. Figure 4-1 shows the location of the five evaporation ponds; Station 101B samples water flowing into evaporation ponds 3 and 4. Sampling and analysis at this location is specified in EFSEC Resolutions. [9,23] Historically, the water directed to the evaporation ponds was discharged to an unlined storm drain pond. Remediation of the historic storm drain pond was completed in 2016.

Monthly composite water samples were analyzed for gamma emitting radionuclides, tritium, and gross beta. Gamma spectroscopy results identified only the presence of naturally occurring radionuclides (See Appendix A, Tables B-2.1, B-2.2). Gross beta was identified above background in five of the twelve monthly samples (See Appendix A, Tables B-3.1, B-3.2). Tritium was detected in eight of the twelve monthly samples (See Appendix A, Tables B-4.1, B-4.2). The samples with higher tritium levels were mostly from colder, wetter months which is consistent with results seen in previous years. The source of the tritium in storm drain water is attributed to recapture of tritium from CGS gaseous effluents which is more likely to occur during cooler, rainier periods. The tritium concentration identified in February was higher than historically observed; the finding was documented in Condition Report 467722. The most probable source was unprecedented steam leakage from the CGS turbine building. The total amount of tritium calculated to have been recaptured in CGS storm drain water in 2025 was within normal trends from past data.

Water grab samples were taken from all five evaporation ponds in May and analyzed for tritium, gross beta, and gamma emitting radionuclides. Gamma spectroscopy results identified only the presence of naturally occurring radionuclides (See Appendix A, Tables B-12.1, B-12.2). Gross beta was detected in four of the five ponds (See Appendix A, Table B-14.1). Tritium was detected above the detection limit in one of the five ponds (See Appendix A, Table B-15.1).

Sediment samples were collected in September from evaporation ponds 3 and 4 and analyzed for gamma emitting radionuclides. Due to the volume of water remaining in the ponds, which precluded safe access to the center, samples were taken from submerged locations along the interior perimeter. Although the sampling was limited to these perimeter locations, the results are considered representative for screening purposes; the absence of any plant-related radionuclides in these areas supports the conclusion that no significant accumulation has occurred. Only naturally occurring radionuclides were identified in both ponds 3 and 4 (See Appendix A, Table B-13.1).

5.9.2 Sanitary Waste Treatment Facility (Station 102B)

SWTF is located approximately 0.5 miles south-southeast of CGS. The facility processes sanitary wastewater from CGS, the Energy Northwest IDC (formerly referred to as WNP-1 and WNP-4), and the Kootenai Building. The Station 102B composite sampler collects wastewater as it enters SWTF head works. Discharge standards and monitoring requirements for SWTF are established in EFSEC Resolution No. 300. [16] and a temporary State Waste Discharge Permit (SWDP). [25]

Low level gross beta was identified in all twelve Station 102B samples, with concentrations comparable to those from previous years. Gross alpha was detected in one of the Station 102B samples (See Appendix A, Tables B-5.1, B-5.2, B-6.1, and B-6.2).

Gamma spectroscopy results of the monthly Station 102B samples identified only naturally occurring radionuclides (See Appendix A, Tables B-7.1, B-7.2). Tritium activity was not identified in Station 102B samples in 2025 (See Appendix A, Tables B-8.1, B-8.2).

5.9.3 Cooling System Sediment Disposal Area (Station 119)

EFSEC Resolution No. 299[18] and NRC Letter GI2-22-017[23] authorizes the onsite disposal of sediments from plant cooling systems containing low levels of radionuclides. The disposal area for these sediments is located just south of the CGS cooling towers. EFSEC Resolution No. 299[18] and NRC Letter GI2-22-017[23] requires direct radiation monitoring using quarterly dosimeters in the vicinity of the disposal cells and the collection and analysis of a dry composite sediment sample from the disposal cell within thirty days following each cleaning to confirm that the disposal criteria outlined in the resolution have not been exceeded.

The source of the radioactivity identified in cooling tower sediment is attributed to incorporation of radionuclides present in the general environment (cesium-137) or recapture of radionuclides in CGS gaseous effluents (cobalt-60). As air is pulled through the cooling towers, atmospheric particles are incorporated into the cooling water. Algae and other biological organisms present in the cooling tower environment actively assimilate the radionuclides resulting in concentrated and measurable levels of the radionuclides in these biological materials. The material removed during cleaning, referred to as sediment, is composed in large part of algae and other biological organisms that exist in the cooling tower environment.

Cleaning of the cooling tower upper decks and lower basins was performed in April 2025 during the R-27 refueling outage. In addition, a small quantity of material was removed from the Circulating Water Pump House pump basin following basin drain down. Disposal of the material removed resulted in an estimated 100 cubic meters of dry-equivalent sediment being added to the disposal cells in April. This volume was calculated based on the total slurry volume, density, and percent water content of the material removed.

A summary of the estimated mass and radionuclide content of all transfers to the disposal cell area in 2025 is presented in Table 5-4. For those isotopes listed in the table that were not positively identified, the MDA value obtained from the sample analysis was used in the table calculations. As such, the total activity reported is a conservative estimate.

As shown in Table 5-4, all material transferred to the disposal cell area in 2025 (See Appendix A, Tables B-9.1) was considerably below the disposal concentration limits specified in EFSEC Resolution No. 299. [18] The cobalt- 60 activity levels identified were within the range typically observed for cooling tower sediment.

Measurements of direct radiation at the disposal pit area were taken using dosimeters. Two locations were used, an indicator location by the collection area (Station 119B) and a control location approximately 200 yards to the east (Station 119Ctrl). The negligible difference between the indicator and the control dosimeters indicates that there was no measurable dose contribution above background due to material in the disposal cells (See Tables 5.3 and Appendix A, Tables B-1.1).

2025 Cooling System Sediment Disposal Data				
	Disposal Date	**April-2025**	**April-2025**	
	Description:	**R-27 Cleaning**	**R-27 Cleaning**	
	Pit ID:	2019a	2025	
	Mass, kg	49,837	252	
	Density, g/cc	0.556	0.0255	
	***Unity Calculation**	5.29E-02	2.75E-02	
Nuclide	**Limit (pCi/kg)**	**Analytical Result (pCi/kg)**	**Analytical Result (pCi/kg)**	**Total Activity (Curie)**
Co-60	5.00E+03	1.29E+02	<5.27E+01	6.44E-06
Mn-54	3.00E+04	<5.97E+01	<4.35E+01	2.99E-06
Zn-65	5.00E+04	<2.56E+02	<1.79E+02	1.28E-05
Cs-134	1.00E+04	<1.39E+02	<9.91E+01	6.95E-06
Cs-137	2.00E+04	<1.21E+02	<4.00E+01	6.04E-06
			Total:	3.52E-05

*** The sum of the fractions of maximum concentration for each nuclide does not exceed 1 in accordance with EFSEC Resolution 299, Attachment 1 Section 3B.**

Table 5-4 Cooling System Sediment Activity Levels for Disposals Made in 2025

5.9.4 Independent Spent Fuel Storage Installation

ISFSI is a fenced, secure area north northwest of CGS. Twenty-two dosimeter stations are located on the fence line that surround the ISFSI. Four other dosimeter locations; Stations 121, 122, 155, and 156, are located near the ISFSI to provide additional monitoring of ISFSI direct radiation. The ISFSI was expanded in 2024, and four new pads installed; refer to section 4.2 for further details and to Figure 4-4 for a map showing ISFSI dosimeters locations.

No new spent fuel casks were added to the ISFSI in 2025. As shown in Figure 5-8, exposure rates at the ISFSI fence line have shown a downward trend since spent fuel was last added. The dosimeter stations with the highest dose rates are located on the south fence; these stations are closest in proximity to the spent fuel casks moved to the ISFSI in 2022.

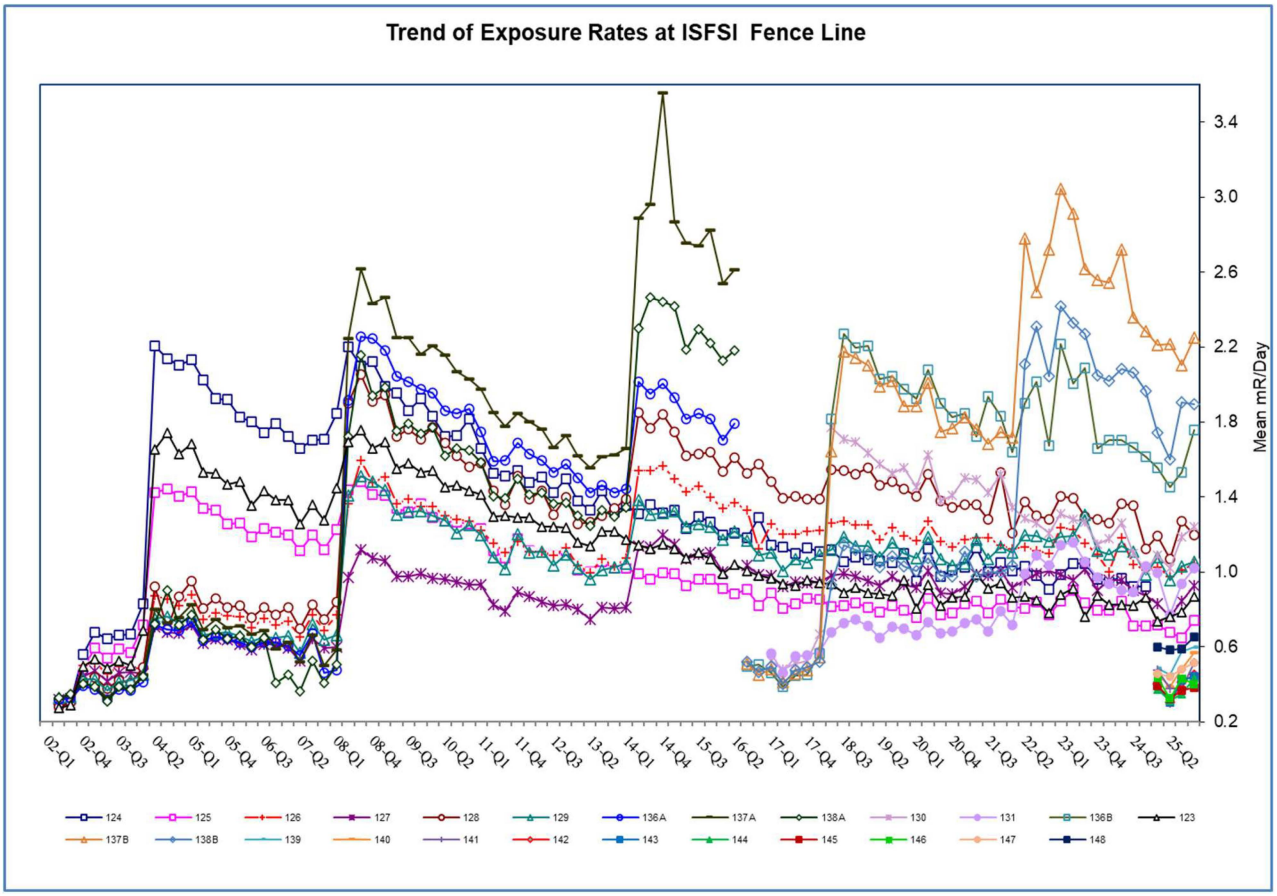

Figure 5-8 ISFSI Dosimeter Trend at CGS

Note: Apparent increases since 2021 reflect OSL implementation and ANSI/HPS N13.37 2014[24] background subtraction, not plant-related dose.

Dosimeter results from Stations 122, 155, and 156 showed a generally stable trend throughout the year, with readings slightly above background levels as expected due to their proximity to the ISFSI. Station 121 showed a marked decrease in the 2nd quarter, followed by a return to its normal trend range in the 3rd and 4th quarters. The 2nd quarter decrease corresponds to the R-27 outage, when turbine building radiation levels were significantly reduced. Results from this station have historically been influenced more by turbine building radiation levels than by the ISFSI (See Table 5-3 and Appendix A, Tables B-1.1 and B-1.2)

5.9.5 Miscellaneous Environmental Sample Results

Apple samples from both control and indicator locations were collected in the summer of 2025 and analyzed for carbon-14 content. Analyses were performed by the Washington State Department of Health Laboratory. Results were similar for both indicator and control samples. The concentration of carbon-14 identified was within the range expected due solely to carbon-14 background contributions. The results do not indicate any discernable effect attributable to CGS operation (See Appendix A, Table B–17.1).

In 2025, quarterly dosimeters were exchanged at eight stations 58, 88-89, and 91-95 to monitor the DOE 618-11 burial ground located just west of CGS (see Figure 4-1). The results were consistent with the historical trend (See Appendix A, Table B-1.1).

5.10 2025 Sample Deviations

A summary of REMP sample deviations encountered in 2025 is listed below in Table 5-1A. All known deviations from the sampling schedule (i.e., sample was not obtained) or analyses where the ODCM specified LLD was not achieved are included. For ODCM or EFSEC specified locations where composite or continuous samples are collected, any known period greater than 24 hours during which samples were not collected have been included. Inclusion of ODCM related sample deviations in Tables 5-1A serves to meet the required compensatory measure listed in ODCM RFO 6.3.1 A.1 and satisfied the notification requirement under EFSEC Resolution 332. Table 5-1B lists information regarding air sampling station requirements. Table 5-1C lists information regarding water sample station sampling requirements.

TABLE 5-1A
REMP Sample Deviations for 2025

SAMPLE MEDIA	DATE	LOCATION	CONDITION REPORT	DEVIATION	PLANS FOR PREVENTING RECURRENCE	DEVIATION FROM
Air	2/18/25	Station 7	CR#466782	The station was found off during the weekly air collection, with only 52 operating hours recorded for the week.	The breaker was reset, and the sampler was verified to be fully operational.	EFSEC
Air	2/25/25	Station 1	CR#467034	The station was out of service for approx. 39 hours due to maintenance.	Corrective actions are deemed not possible due to the remote nature of the sample station.	EFSEC
Air	5/13/25	Station 1	CR#470553	The station was out of service from 5/8/25 to 5/12/25 due to maintenance.	Corrective actions are deemed not possible due to the remote nature of the sample station.	EFSEC
Water	5/25/25 to 6/2/25	Station 27	CR#471690	A temporary blowdown occurred from 5/25/25 to 5/27/25; however, the pump operated sporadically due to the CBD-LCV-1 valve failing to actuate. The station returned to service on 6/2/25.	Repaired CBD-LCV-1 valve.	ODCM & EFSEC

TABLE 5-1A (cont.)
REMP Sample Deviations for 2025

SAMPLE MEDIA	DATE	LOCATION	CONDITION REPORT	DEVIATION	PLANS FOR PREVENTING RECURRENCE	DEVIATION FROM
Air	8/27/25 to 8/28/25	Station 8	CR#475206	The station was deenergized for an electrical panel upgrade and was out of service for 28 hours and 50 minutes.	Restored power and verified the sampler is operational.	ODCM & EFSEC
Air	9/8/25 to 9/9/25	Station 57	CR#475463	The station was out of service for 28 hours and 29 minutes due to power trip.	Restored power and verified the sampler is operational.	ODCM
Water	10/1/25	Station 26	CR#476182	The station was in service for approx. 1 day and 16 hours. Following calibration, the sampler was inadvertently set to proportional mode rather than timed mode.	Corrected the setting to timed mode. Updated the model work order 02148269 to include a verification step ensuring the sampler is operating in timed mode.	ODCM & EFSEC
Dosimeter	3rd Q 2025	Station 12	CR#476181	Dosimeter was missing in the field; probable cause is animal predation.	Corrective actions are deemed not possible due to the remote nature of the sample station.	EFSEC
Air	10/20/25 to 11/25/25	Station 23	CR#476819	The station was out of service from 10/20/25 to 11/25/25 due to transformer failure.	Corrective actions are deemed not possible due to the remote nature of the sample station.	EFSEC

TABLE 5-1A (cont.) REMP Sample Deviations for 2025						
SAMPLE MEDIA	**DATE**	**LOCATION**	**CONDITION REPORT**	**DEVIATION**	**PLANS FOR PREVENTING RECURRENCE**	**DEVIATION FROM**
Air	11/24/25	Station 48	CR#478033	The station was discovered offline with the pump not operating, resulting in an estimated 49 hours of downtime. The pump was replaced, and the station has been returned to service.	Replaced the pump and verified the sampler is operational.	ODCM & EFSEC
Water	1/5/26	Station 29	CR#479418	The sample carboy was found overflowing. It appears the flow rate exceeded the desired setting.	The flow rate was adjusted, and verification confirmed the target volume was delivered.	ODCM & EFSEC

Table 5-1B below shows the percent in service time for the twelve air sample locations. The table shows that overall availability for all ODCM required locations was 99.5% or greater.

TABLE 5-1B CGS REMP Air Sample Percent in Service Time for 2025			
Station ID	ODCM Required	EFSEC Required	Percent Time in Service
1		x	98.1%
4	x	x	99.9%
5			99.9%
6		x	99.9%
7		x	96.5%
8	x	x	99.5%
9	x	x	99.8%
21B			99.8%
23		x	90.0%
40	x	x	99.9%
48	x	x	99.5%
57	x		99.6%

Table 5-1C below shows the percent in service time for the five water locations. The table shows that overall availability for all ODCM required locations was 91.6% or greater.

TABLE 5-1C
CGS REMP Water Sample Percent in Service Time for 2025

Station ID	ODCM Required	EFSEC Required	Percent Time in Service
26	x	x	91.6%
27	x	x	97.6%
29	x	x	100.0%
101B		x	100.0%
102B		x	99.7%

Table 5-2 below summarizes the analytical results for all ODCM required REMP samples and CGS groundwater monitoring. The results are presented in a format consistent with Table 3 of the NRC Branch Technical Position [6] paper on radiological environmental monitoring. The mean and range values are based on detectable results only. The table contains the following:

- Media or pathway sampled and the units of measurement.
- Analysis type and total number of analyses performed.
- The LLD for the analysis type.
- Mean and range for all indicator locations, and the ratio of detectable measurements to the number of total measurements made for all indicator locations.
- Mean and range for all control locations, and the ratio of detectable measurements to the number of total measurements made at the control locations.
- For analysis types where detectable measurements were made, the location with the highest annual mean, distance, and direction of location from CGS, and the mean, range and ratio of detectable measurements to the number of total measurements for that location.
- The number of nonroutine reported measurements.

TABLE 5-2

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY

COLUMBIA GENERATING STATION **DOCKET NO. 50-397**

Benton County, Washington **Calendar Year 2025**

Medium: Environmental Direct Radiation **Units: mR/std. quarter**

Analysis Type	Total Analyses Performed	Lower Limit of Detection (LLD)	Indicator Locations Mean (f)[a] Range	Location With Highest Annual Mean		Control Locations Mean (f)[a] Range	Number of Nonroutine Measurements
				Location Information	Mean (f)[a] Range		
Dosimeter Quarterly	227	---	28.5 (223 / 223) (22.3-39.5)	46 NE 4.99 miles	34.15 (4 / 4) (29.0-39.5)	27.75(4 / 4) (26.9-28.1)	0

a. (f) is the number of positive measurements / total measurements at specified location.

Reference Appendix A, Tables A-1.1, A-1.2

In 2021, the OSL dosimeters were implemented.

TABLE 5-2 (cont.)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY

COLUMBIA GENERATING STATION **DOCKET NO. 50-397**

Benton County, Washington **Calendar Year 2025**

Medium: ISFSI Direct Radiation **Units: mR/std. quarter**

Analysis Type	Total Analyses Performed	Lower Limit of Detection (LLD)	Indicator Locations Mean (f)[a] Range	Location With Highest Annual Mean		Control Locations Mean (f)[a] Range	Number of Nonroutine Measurements
				Location Information	Mean (f)[a] Range		
Dosimeter Quarterly	88	---	76.6 (88 / 88) (27.8-205.0)	137B NNW 0.24 miles	200.0 (4 / 4) (191.7-205.0)	--- (0 /0)	0

a. (f) is the number of positive measurements / total measurements at specified location.

Reference Appendix A, Tables B-1.1, B-1.2

ISFSI Dosimeters are Stations 123 to 131, 136B to 138B, and 139 to 148. Station 130 and 131 were added in the 1st quarter of 2017. Station 139 to 148 were added in the 1st quarter of 2025.

In 2021, the OSL dosimeters were implemented.

TABLE 5-2 (cont.)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY

COLUMBIA GENERATING STATION **DOCKET NO. 50-397**

Benton County, Washington **Calendar Year 2025**

Medium: Air Particulate/Air Radioiodine **Units: pCi/m^3**

Analysis Type	Total Analyses Performed	Lower Limit of Detection (LLD) [b]	Indicator Locations Mean (f)[a] Range	Location With Highest Annual Mean		Control Locations Mean (f)[a] Range	Number of Nonroutine Measurements
				Location Information	Mean (f)[a] Range		
Gross Beta	619	0.01	0.0147 (567 / 567) (0.00259-0.0498)	21B ESE 1.1 miles	0.0156 (52 / 52) (0.00513-0.0459)	0.0147 (52 / 52) (0.00342-0.0399)	0
I-131	619	0.07	--- (0 / 567)	---	---	--- (0 / 52)	0
Cs-134	44	0.05	--- (0 / 44)	---	---	--- (0 / 4)	0
Cs-137	44	0.06	--- (0 / 44)	---	---	--- (0 / 4)	0

a. (f) is the number of positive measurements / total measurements at specified location.

b. These are the ODCM specified LLDs, actual method LLDs will be lower. See Table 4-4.

Reference Appendix A, Tables A-2.1, A-2.2, Tables A-3.1, A-3.2, and Tables A- 4.1, A-4.2.

TABLE 5-2 (cont.)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY

COLUMBIA GENERATING STATION **DOCKET NO. 50-397**

Benton County, Washington **Calendar Year 2025**

Medium: Water-River/Drinking **Units: pCi/L**

Analysis Type	Total Analyses Performed	Lower Limit of Detection (LLD) [c]	Indicator Locations Mean (f)[a] Range	Location With Highest Annual Mean		Control Locations Mean (f)[a] Range	Number of Nonroutine Measurements
				Location Information	Mean (f)[a] Range		
Gross Beta	24	4.0	--- (0 / 24) [(b)]	---	---	--- (0 / 12)	0
H-3	8	2000	--- (0 / 8) [(b)]	---	---	--- (0 / 4)	0
Mn-54	24	15	--- (0 / 24) [(b)]	---	---	--- (0 / 12)	0
Fe-59	24	30	--- (0 / 24) [(b)]	---	---	--- (0 / 12)	0
Co-58	24	15	--- (0 / 24) [(b)]	---	---	--- (0 / 12)	0
Co-60	24	15	--- (0 / 24) [(b)]	---	---	--- (0 / 12)	0
Zn-65	24	30	--- (0 / 24) [(b)]	---	---	--- (0 / 12)	0
Zr/Nb-95	24	15	--- (0 / 24) [(b)]	---	---	--- (0 / 12)	0
Cs-134	24	15	--- (0 / 24) [(b)]	---	---	--- (0 / 12)	0
Cs-137	24	18	--- (0 / 24) [(b)]	---	---	--- (0 / 12)	0
Ba/La-140	24	15	--- (0 / 24) [(b)]	---	---	--- (0 / 12)	0

a. (f) is the number of positive measurements / total measurements at specified location.

b. This includes the control sample for this group; the control (Station 26) is also a drinking water sample.

c. These are the ODCM specified LLDs, actual method LLDs will be lower. See Table 4-4.

Reference Appendix A, Tables A-5.1, A-5.2, Tables A-6.1, A-6.2, and Tables A-7.1, A-7.2

TABLE 5-2 (cont.)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY

COLUMBIA GENERATING STATION **DOCKET NO. 50-397**

Benton County, Washington **Calendar Year 2025**

Medium: Water-Discharge **Units: pCi/L**

Analysis Type	Total Analyses Performed	Lower Limit of Detection (LLD) [b]	Indicator Locations Mean (f) [a] Range	Location With Highest Annual Mean		Control Locations Mean (f)[a] Range	Number of Nonroutine Measurements
				Location Information	Mean (f)[a] Range		
Gross Beta	11	4.0	5.83 (11/11) (2.64-12.1)	27 E 3.2 miles	5.83 (11/11) (2.64-12.1)	--- (0 / 0)	0
H-3	4	2000	--- (0 / 4)	---	---	--- (0 / 0)	0
Mn-54	11	15	--- (0 / 11)	---	---	--- (0 / 0)	0
Fe-59	11	30	--- (0 / 11)	---	---	--- (0 / 0)	0
Co-58	11	15	--- (0 / 11)	---	---	--- (0 / 0)	0
Co-60	11	15	--- (0 / 11)	---	---	--- (0 / 0)	0
Zn-65	11	30	--- (0 / 11)	---	---	--- (0 / 0)	0
Zr/Nb-95	11	15	--- (0 / 11)	---	---	--- (0 / 0)	0
Cs-134	11	15	--- (0 / 11)	---	---	--- (0 / 0)	0
Cs-137	11	18	--- (0 / 11)	---	---	--- (0 / 0)	0
Ba/La-140	11	15	--- (0 / 11)	---	---	--- (0 / 0)	0

a. (f) is the number of positive measurements / total measurements at specified location.

b. These are the ODCM specified LLDs, actual method LLDs will be lower. See Table 4-4.

Reference Appendix A, Tables A-5.1, A-5.2, Tables A-6.1, A-6.2, and Tables A-13.1, A-13.2

TABLE 5-2 (cont.)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY

COLUMBIA GENERATING STATION **DOCKET NO. 50-397**

Benton County, Washington **Calendar Year 2025**

Medium: Water- Deep Ground **Units: pCi/L**

Analysis Type	Total Analyses Performed	Lower Limit of Detection (LLD)[b]	Indicator Locations Mean (f)[a] Range	Location With Highest Annual Mean		Control Locations Mean (f)[a] Range	Number of Nonroutine Measurements
				Location Information	Mean (f)[a] Range		
H-3	4	2000	--- (0 / 4)	---	---	--- (0 / 0)	0
Mn-54	**4**	15	--- (0 / 4)	---	---	--- (0 / 0)	0
Fe-59	**4**	30	--- (0 / 4)	---	---	--- (0 / 0)	0
Co-58	**4**	15	--- (0 / 4)	---	---	--- (0 / 0)	0
Co-60	**4**	15	--- (0 / 4)	---	---	--- (0 / 0)	0
Zn-65	**4**	30	--- (0 / 4)	---	---	--- (0 / 0)	0
Zr/Nb-95	**4**	15	--- (0 / 4)	---	---	--- (0 / 0)	0
Cs-134	**4**	15	--- (0 / 4)	---	---	--- (0 / 0)	0
Cs-137	**4**	18	--- (0 / 4)	---	---	--- (0 / 0)	0
Ba/La-140	**4**	15	--- (0 / 4)	---	---	--- (0 / 0)	0

a. (f) is the number of positive measurements / total measurements at specified location.

b. These are the ODCM specified LLDs, actual method LLDs will be lower. See Table 4-4.

Reference Appendix A, Tables A-6.1, A-6.2, and Tables A-14.1, A-14.2

TABLE 5-2 (cont.)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY

COLUMBIA GENERATING STATION **DOCKET NO. 50-397**

Benton County, Washington **Calendar Year 2025**

Medium: Water- Shallow Ground **Units: pCi/L**

Analysis Type	Total Analyses Performed	Lower Limit of Detection (LLD) [b]	Indicator Locations Mean (f)[a] Range	Location With Highest Annual Mean		Control Locations Mean (f)[a] Range	Number of Nonroutine Measurements
				Location Information	Mean (f)[a] Range		
H-3	24	2000	2,960 (12 / 24) (-91.8-10,100)	MW-5 SW 0.43 miles	9,243 (4 / 4) (8,590-10,100)	--- (0 / 0)	0
Mn-54	24	15	--- (0 / 24)	---	---	--- (0 / 0)	0
Fe-59	24	30	--- (0 / 24)	---	---	--- (0 / 0)	0
Co-58	24	15	--- (0 / 24)	---	---	--- (0 / 0)	0
Co-60	24	15	--- (0 / 24)	---	---	--- (0 / 0)	0
Zn-65	24	30	--- (0 / 24)	---	---	--- (0 / 0)	0
Zr/Nb-95	24	15	--- (0 / 24)	---	---	--- (0 / 0)	0
Cs-134	24	15	--- (0 / 24)	---	---	--- (0 / 0)	0
Cs-137	24	18	--- (0 / 24)	---	---	--- (0 / 0)	0
Ba/La-140	24	15	--- (0 / 24)	---	---	--- (0 / 0)	0

a. (f) is the number of positive measurements / total measurements at specified location.

b. These are the ODCM specified LLDs, actual method LLDs will be lower. See Table 4-4.

Reference Appendix A, Tables B-10.1, B-10.2, and B-11.1.

TABLE 5-2 (cont.)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY

COLUMBIA GENERATING STATION **DOCKET NO. 50-397**

Benton County, Washington **Calendar Year 2025**

Medium: River Sediment **Units: pCi/kg**

Analysis Type	Total Analyses Performed	Lower Limit of Detection (LLD) [b]	Indicator Locations Mean (f)[a] Range	Location With Highest Annual Mean		Control Locations Mean (f)[a] Range	Number of Nonroutine Measurements
				Location Information	Mean (f)[a] Range		
Cs-134	4	150	--- (0 / 2)	---	---	--- (0 / 2)	0
Cs-137	4	180	118 (2 / 2) (80.2-157)	34 ESE 3.32 Miles	118 (2 / 2) (80.2-157)	--- (0 / 2)	0
Co-60	4	---	--- (0 / 2)	---	---	--- (0 / 2)	0

a. (f) is the number of positive measurements / total measurements at specified location.

b. These are the ODCM specified LLDs, actual method LLDs will be lower. See Table 4-4.

Reference Appendix A, Tables A-9.1, A-9.2.

TABLE 5-2 (cont.)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY

COLUMBIA GENERATING STATION **DOCKET NO. 50-397**

Benton County, Washington **Calendar Year 2025**

Medium: Roots **Units: pCi/kg**

Analysis Type	Total Analyses Performed	Lower Limit of Detection (LLD) [b]	Indicator Locations Mean (f)[a] Range	Location With Highest Annual Mean		Control Locations Mean (f)[a] Range	Number of Nonroutine Measurements
				Location Information	Mean (f)[a] Range		
I-131	7	60	--- (0 / 5)	---	---	--- (0 / 2)	0
Cs-134	7	60	--- (0 / 5)	---	---	--- (0 / 2)	0
Cs-137	7	80	--- (0 / 5)	---	---	--- (0 /2)	0

a. (f) is the number of positive measurements / total measurements at specified location.

b. These are the ODCM specified LLDs, actual method LLDs will be lower. See Table 4-4.

Reference Appendix A, Tables A-15.1, A-15.2.

TABLE 5-2 (cont.)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY

COLUMBIA GENERATING STATION **DOCKET NO. 50-397**

Benton County, Washington **Calendar Year 2025**

Medium: Fruits **Units: pCi/kg**

Analysis Type	Total Analyses Performed	Lower Limit of Detection (LLD) [b]	Indicator Locations Mean (f)[a] Range	Location With Highest Annual Mean		Control Locations Mean (f)[a] Range	Number of Nonroutine Measurements
				Location Information	Mean (f)[a] Range		
I-131	8	60	--- (0 / 6)	---	---	--- (0 / 2)	0
Cs-134	8	60	--- (0 / 6)	---	---	--- (0 / 2)	0
Cs-137	8	80	--- (0 / 6)	---	---	--- (0 / 2)	0

a. (f) is the number of positive measurements / total measurements at specified location.

b. These are the ODCM specified LLDs, actual method LLDs will be lower. See Table 4-4.

Reference Appendix A, Table A-16.1, A-16.2.

TABLE 5-2 (cont.)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY

COLUMBIA GENERATING STATION **DOCKET NO. 50-397**

Benton County, Washington **Calendar Year 2025**

Medium: Vegetables and Vegetation **Units: pCi/kg**

Analysis Type	Total Analyses Performed	Lower Limit of Detection (LLD) [b]	Indicator Locations Mean (f)[a] Range	Location With Highest Annual Mean		Control Locations Mean (f)[a] Range	Number of Nonroutine Measurements
				Location Information	Mean (f)[a] Range		
I-131	9	60	--- (0 / 7)	---	---	--- (0 / 2)	0
Cs-134	9	60	--- (0 / 7)	---	---	--- (0 / 2)	0
Cs-137	9	80	--- (0 / 7)	---	---	--- (0 / 2)	0

a. (f) is the number of positive measurements / total measurements at specified location.

b. These are the ODCM specified LLDs, actual method LLDs will be lower. See Table 4-4.

Reference Appendix A, Table A-17.1, A-17.2.

TABLE 5-2 (cont.)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY

COLUMBIA GENERATING STATION **DOCKET NO. 50-397**

Benton County, Washington **Calendar Year 2025**

Medium: Fish **Units: pCi/kg**

Analysis Type	Total Analyses Performed	Lower Limit of Detection (LLD) [b]	Indicator Locations Mean (f)[a] Range	Location With Highest Annual Mean		Control Locations Mean (f)[a] Range	Number of Nonroutine Measurements
				Location Information	Mean (f)[a] Range		
Mn-54	6	130	--- (0 / 3)	---	---	--- (0 / 3)	0
Fe-59	6	260	--- (0 / 3)	---	---	--- (0 / 3)	0
Co-58	6	130	--- (0 / 3)	---	---	--- (0 / 3)	0
Co-60	6	130	--- (0 / 3)	---	---	--- (0 / 3)	0
Zn-65	6	260	--- (0 / 3)	---	---	--- (0 / 3)	0
Cs-134	6	130	--- (0 / 3)	---	---	--- (0 / 3)	0
Cs-137	6	150	--- (0 / 3)	---	---	--- (0 / 3)	0

a. (f) is the number of positive measurements / total measurements at specified location.

b. These are the ODCM specified LLDs, actual method LLDs will be lower. See Table 4-4.

Reference Appendix A, Table A-10.1, A-10.2.

TABLE 5-2 (cont.)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY

COLUMBIA GENERATING STATION **DOCKET NO. 50-397**

Benton County, Washington **Calendar Year 2025**

Medium: Milk **Units: pCi/L**

Analysis Type	Total Analyses Performed	Lower Limit of Detection (LLD) [b]	Indicator Locations Mean (f)[a] Range	Location With Highest Annual Mean		Control Locations Mean (f)[a] Range	Number of Nonroutine Measurements
				Location Information	Mean (f)[a] Range		
I-131	36	1.0	--- (0 / 18)	---	---	--- (0 / 18)	0
Cs-134	36	15	--- (0 / 18)	---	---	--- (0 / 18)	0
Cs-137	36	18	--- (0 / 18)	---	---	--- (0 / 18)	0
Ba/La-140	36	15	--- (0 / 18)	---	---	--- (0 / 18)	0

a. (f) is the number of positive measurements / total measurements at specified location.

b. These are the ODCM specified LLDs, actual method LLDs will be lower. See Table 4-4.

Reference Appendix A, Tables A-11.1, A-11.2, Tables A-12.1, A-12.2.

TABLE 5-3
QUARTERLY DOSIMETER DATA SUMMARY WITH COMPARISON TO PRE-OPERATIONAL AND OPERATIONAL PERIODS

Results in mR/Standard Quarter

	Pre-Operational				Operational to 2024				2025 Operational			
Station	Min	Max	Std Dev	Mean	Min	Max	Std Dev	Mean	Min	Max	Std Dev	Mean
1	19.2	23.7	2.1	21.9	18.3	34.0	2.7	22.7	26.9	31.8	2.2	28.7
2	17.3	22.8	2.1	21.1	16.4	33.8	2.5	22.1	28.1	32.1	2.0	30.1
3	18.3	21.9	1.5	20.4	16.4	33.1	2.7	21.3	27.7	31.0	1.5	28.9
4	15.5	23.7	2.6	20.0	14.6	34.0	3.1	20.2	24.2	29.1	2.3	27.5
5	18.3	22.8	1.7	20.8	16.4	34.1	3.0	20.7	27.1	30.0	1.4	28.0
6	18.3	21.9	1.5	20.2	16.4	34.9	2.9	20.7	26.2	28.8	1.1	27.3
7	19.2	22.8	1.7	21.3	16.4	35.9	3.0	21.7	27.1	30.7	1.5	28.7
8	21.9	25.6	1.5	23.8	15.5	40.6	3.2	23.9	28.9	30.9	0.8	29.9
9	15.5	21.9	2.0	19.8	16.4	34.9	2.8	20.5	26.9	28.1	0.6	27.5
10	19.2	22.8	1.4	21.0	16.4	38.6	2.6	21.4	25.0	29.1	1.8	26.8
11	19.2	22.8	1.4	21.4	16.4	34.1	2.7	22.1	24.2	29.5	2.3	27.2
12	21.0	24.6	1.6	23.0	18.3	34.3	2.6	23.6	27.2	29.7	1.3	28.6
13	19.2	22.8	1.5	21.4	17.3	34.7	2.7	21.8	26.8	30.0	1.3	28.7
14	19.2	24.6	2.1	21.9	17.3	33.1	2.7	22.0	25.0	31.1	2.6	28.2
15	21.0	25.6	1.4	23.2	17.3	37.6	2.7	23.5	28.1	32.9	2.2	29.6
16	20.1	23.7	1.5	22.1	16.4	40.3	3.1	22.5	25.0	26.8	0.7	26.0
17	19.2	23.7	1.6	22.8	17.3	35.7	2.6	22.9	27.7	32.1	2.0	29.4
18	20.1	23.7	1.3	22.1	16.4	35.7	2.8	22.6	26.8	33.5	3.1	29.1
19	20.1	23.7	1.2	22.0	17.3	36.7	2.9	22.8	26.8	30.1	1.4	28.4
20	19.2	23.7	1.8	21.4	15.6	34.0	2.8	22.3	26.8	29.1	1.1	28.2
21	19.2	21.9	1.2	20.7	15.5	29.5	2.4	20.7	25.2	27.2	0.9	26.5
22	19.2	23.7	1.6	22.0	16.4	33.8	2.7	22.1	26.8	31.1	2.2	28.7
23	20.1	23.7	1.5	21.6	17.3	34.1	2.8	21.7	23.3	31.0	3.5	25.9
24	21.0	23.7	1.1	21.9	16.7	50.5	3.5	22.4	24.8	29.1	1.8	27.2
25	21.0	24.6	1.5	23.2	17.3	37.0	3.0	23.3	28.7	33.1	1.9	30.6
40	17.3	21.9	1.7	19.9	15.5	33.0	2.8	20.4	23.3	26.2	1.2	24.9
41	20.1	25.6	2.0	23.7	17.3	34.9	3.0	22.9	25.0	31.9	3.2	27.5
42	20.1	23.7	1.6	22.4	17.3	34.9	2.9	22.3	25.2	31.0	2.4	27.8
43	21.0	24.6	1.5	23.1	16.4	33.0	2.7	22.9	26.1	31.0	2.3	28.0
44	19.2	22.8	1.3	21.1	15.5	33.0	2.8	21.0	23.3	29.0	2.6	27.1
45	19.2	22.8	1.4	21.2	16.4	34.3	3.0	21.6	24.2	28.1	1.6	26.4
46	22.8	28.3	2.1	26.1	19.2	40.6	3.0	27.0	29.0	39.5	4.3	34.2
47	17.3	21.0	1.7	19.8	15.5	34.9	2.8	20.8	25.2	29.1	1.7	26.6
49	21.9	21.9	-	21.9	16.4	32.1	2.5	22.4	23.2	31.0	3.3	27.4
50	20.1	20.1	-	20.1	16.4	31.8	2.6	22.1	25.3	31.5	2.8	27.7
51	19.2	21.9	1.2	20.5	16.4	32.8	2.6	21.5	25.8	29.1	1.5	27.2
53	24.6	24.6	-	24.6	18.3	34.3	2.9	23.5	22.3	31.0	3.6	26.1
54	23.7	23.7	-	23.7	18.2	32.4	2.7	22.4	23.3	31.0	3.6	28.5
55	21.0	21.0	-	21.0	16.4	32.5	2.7	22.0	25.0	32.9	3.7	27.8
56	21.9	21.9	-	21.9	16.4	37.8	2.7	22.5	27.1	30.7	1.7	28.5
58	-	-	-	-	17.8	31.8	3.9	21.8	25.2	30.0	2.2	28.4
65	-	-	-	-	17.7	34.9	3.3	21.0	25.2	30.0	2.0	27.8

TABLE 5-3 (cont)
ANNUAL TLD DATA SUMMARY WITH COMPARISON TO PRE-OPERATIONAL AND OPERATIONAL PERIODS

Results in mR per Year

	Pre-Operational				Operational to 2024				2025 Operational			
Station	Min	Max	Std Dev	Mean	Min	Max	Std Dev	Mean	Min	Max	Std Dev	Mean
71(1S)	20.1	22.8	1.6	21.9	18.3	37.3	3.2	26.0	26.8	37.6	4.4	32.5
72(2S)	21.9	23.7	0.9	22.8	18.3	35.7	3.0	24.9	27.7	34.8	3.4	30.7
73(3S)	20.1	21.9	0.9	21.0	16.4	35.1	3.3	22.4	29.1	32.3	1.5	30.3
74(4S)	23.7	24.6	0.5	24.0	18.3	37.1	3.1	24.0	26.2	36.3	4.4	30.3
75(5S)	19.2	21.9	1.4	20.4	15.5	38.5	2.9	22.8	25.8	30.0	1.8	28.2
76(6S)	21.0	22.8	0.9	21.9	17.3	33.0	2.8	22.5	26.8	33.1	2.6	30.1
77(7S)	21.9	23.7	0.9	22.8	17.3	34.7	2.8	22.5	26.2	31.5	2.4	28.4
78(8S)	21.9	23.7	1.1	22.5	17.3	34.7	2.6	22.0	25.0	32.9	3.5	28.0
79(9S)	22.8	23.7	0.5	23.1	17.3	33.6	2.7	22.4	25.0	31.9	3.0	27.7
80(10S)	21.0	22.8	0.9	21.9	16.4	31.2	2.6	21.5	26.8	30.1	1.4	28.2
81(11S)	20.1	23.7	1.9	22.2	17.3	32.8	2.6	22.0	24.1	32.1	3.5	27.1
82(12S)	21.9	24.6	1.4	23.4	17.3	36.7	2.8	23.0	28.6	32.9	1.8	30.6
83(13S)	21.9	23.7	0.9	22.8	17.3	35.5	3.0	22.8	25.8	31.9	2.9	27.7
84(14S)	21.0	22.8	1.1	22.2	16.4	35.7	2.7	22.8	27.7	31.9	1.7	29.6
85(15S)	21.9	24.6	1.6	23.7	16.6	34.1	2.9	23.7	29.1	33.2	1.7	31.2
86(16S)	21.9	23.7	0.9	22.8	18.3	40.5	3.5	27.2	32.1	35.9	2.0	34.0
87	-	-	-	-	19.3	36.2	4.0	29.3	-	-	-	-
88	-	-	-	-	17.1	40.3	4.9	27.5	27.1	38.5	4.7	33.3
89	-	-	-	-	19.3	41.0	4.8	28.4	25.2	36.7	5.1	31.8
90	-	-	-	-	16.8	21.0	0.8	19.0	-	-	-	-
91	-	-	-	-	33.8	33.8	-	33.8	29.1	33.8	2.1	32.1
92	-	-	-	-	44.3	44.3	-	44.3	26.2	36.8	5.0	33.5
93	-	-	-	-	34.7	34.7	-	34.7	27.1	39.5	5.5	34.9
94	-	-	-	-	36.6	36.6	-	36.6	30.1	41.4	4.7	34.8
95	-	-	-	-	31.9	31.9	-	31.9	26.2	39.5	5.6	33.5
119B	-	-	-	-	19.2	38.5	3.6	23.2	25.8	30.1	2.1	28.9
119Ctrl	-	-	-	-	3.7	37.2	4.4	23.2	28.6	36.7	3.5	32.7
121 (ISFSI)	-	-	-	-	19.5	130.3	19.6	75.0	34.1	93.0	27.7	75.5
122 (ISFSI)	-	-	-	-	19.6	47.3	6.4	33.4	34.4	38.5	2.1	36.5
123 (ISFSI)	-	-	-	-	25.0	160.3	31.1	101.4	67.1	79.2	5.2	71.8
124 (ISFSI)	-	-	-	-	26.9	201.1	40.6	122.6	73.4	80.8	3.1	77.7
125 (ISFSI)	-	-	-	-	26.5	135.5	24.0	90.1	59.2	67.9	3.8	63.6
126 (ISFSI)	-	-	-	-	26.0	145.7	27.2	98.8	89.3	95.3	2.5	92.6
127 (ISFSI)	-	-	-	-	29.0	109.2	18.5	77.6	69.5	84.9	6.3	76.8
128 (ISFSI)	-	-	-	-	25.6	187.3	38.1	116.9	97.8	116.0	7.5	108.0
129 (ISFSI)	-	-	-	-	30.2	138.1	26.4	92.6	87.4	98.4	4.7	94.1
130 (ISFSI)	-	-	-	-	44.0	161.9	33.5	115.9	93.1	113.3	9.0	103.5
131 (ISFSI)	-	-	-	-	42.3	105.9	17.2	72.0	70.4	93.4	10.3	85.1
136A (ISFSI)	-	-	-	-	29.0	205.6	60.1	115.5	-	-	-	-
137A (ISFSI)	-	-	-	-	29.5	324.5	82.8	139.1	-	-	-	-
138A (ISFSI)	-	-	-	-	28.3	224.9	63.3	113.7	-	-	-	-
136B (ISFSI)	-	-	-	-	35.5	206.9	56.0	147.0	132.8	160.6	11.9	143.7
137B (ISFSI)	-	-	-	-	37.5	278.0	72.9	167.7	191.7	205.0	5.8	200.0
138B (ISFSI)	-	-	-	-	36.9	220.4	59.5	117.1	146.1	173.7	13.1	162.9
139 (ISFSI)	-	-	-	-	-	-	-	-	41.1	54.6	6.5	48.2
140 (ISFSI)	-	-	-	-	-	-	-	-	35.4	51.8	6.8	43.2
141 (ISFSI)	-	-	-	-	-	-	-	-	34.5	47.1	6.4	39.9
142 (ISFSI)	-	-	-	-	-	-	-	-	27.8	41.4	5.7	35.9

TABLE 5-3 (Cont.)

QUARTERLY DOSIMETER DATA SUMMARY WITH COMPARISON TO PRE-OPERATIONAL AND OPERATIONAL PERIODS

Results in mR/Standard Quarter

	Pre-Operational				Operational to 2024				2025 Operational			
Station	Min	Max	Std Dev	Mean	Min	Max	Std Dev	Mean	Min	Max	Std Dev	Mean
143 (ISFSI)	-	-	-	-	-	-	-	-	27.8	40.4	5.5	35.7
144 (ISFSI)	-	-	-	-	-	-	-	-	28.8	39.5	4.5	33.5
145 (ISFSI)	-	-	-	-	-	-	-	-	29.7	35.9	2.7	33.5
146 (ISFSI)	-	-	-	-	-	-	-	-	29.7	39.7	4.6	36.4
147 (ISFSI)	-	-	-	-	-	-	-	-	40.1	47.1	3.0	43.2
148 (ISFSI)	-	-	-	-	-	-	-	-	53.4	59.4	2.8	55.3
Site 1	-	-	-	-	11.9	31.0	3.8	20.2	21.4	24.2	1.5	22.7
Site 4	-	-	-	-	15.7	34.1	3.8	20.3	25.8	29.1	1.5	27.0
155	-	-	-	-	22.8	37.6	4.2	28.2	28.6	32.5	1.6	30.6
156	-	-	-	-	24.6	41.4	4.8	31.2	31.1	35.7	2.2	33.1

TABLE 5-3 NOTES: The pre-operational period was from 1982 to1983. The operational period started in the 1st quarter of 1984. Station 65 was added in 1997. Stations 119B and 119Ctrl were added in 1995. Stations 121 and 122 were added in 1998. Stations 123-129 and 136A-138A were added in the 2nd quarter of 2002. Stations Site 1 and Site 4 were added in 2006. Stations 58 and 87 to 90 were added in 2008 to monitor remediation work at the DOE 618-11 burial site. Stations 87 and 90 were removed from service in the 1st quarter of 2017. Stations 136A-138A were relocated in the 3rd quarter 2016 and designated as stations 136B-138B. Stations 155 and 156 were added in the 1st quarter 2016. Stations 130 and 131 were added in the 1st quarter of 2017. In 2021, the OSL dosimeters were implemented and the method for calculation was modified. Stations 91 through 95 were added in the 4th quarter of 2024 to monitor DOE 618-11 burial site. Stations 139 through 148 were added in the 1st quarter of 2025.

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6.0 QUALITY ASSURANCE AND QUALITY CONTROL

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6.0 QUALITY ASSURANCE AND QUALITY CONTROL

The REMP is designed to meet the quality assurance (QA) and quality control (QC) criteria of the NRC Regulatory Guide 4.15[7] and 10 CFR 50 Appendix B [15]. The laboratories performing sample analysis, Energy Northwest Environmental Services and Landauer, maintain quality control programs to ensure that analytical results are accurate, precise, and defendable. The following sections summarize the quality assurance and quality control aspects of the dosimeter, sample collection, and sample analysis components of the REMP.

6.1 Quality Control for the Energy Northwest Environmental Dosimeter Program

The Quality Control program for the environmental dosimeter program covers the preparation, transportation, deployment, collection, storage, processing, and evaluation of the environmental dosimeters and is designed to meet the requirements of NRC Regulatory Guides 4.13[8] and 4.15.[7]

From the time the dosimeters are prepared to the time they are placed in the field, they are stored and transported with control dosimeters. Two sets of control dosimeters are used, the building controls and the transportation (trip) controls accompany the field dosimeters during transit to and from the vendor. Once on-site, their roles diverge: the building controls are placed in a low-background lead shield to monitor local storage conditions, while the trip controls remain with the dosimeters throughout the entire deployment and collection process. If the trip control results exceed the building control results, the difference is subtracted from the field dosimeter readings to account for the specific exposure received during field transit and deployment handling.

Dosimeters designated as spikes are prepared by the Energy Northwest (ENW) Radiation Protection Department by exposing the dosimeters to a calibrated source to produce a known exposure. The spiked dosimeters are submitted and processed with the field dosimeters to further verify the accuracy and precision of the environmental dosimeter results. Quarterly spikes receive a target exposure in the range of 90 to 180 mR. Evaluation of the 2025 spiked dosimeter results showed acceptable performance in accordance with ANSI/HPS N13.37-2014 criteria. Although several individual 4th-quarter spikes exceeded ±15% bias, the quarterly mean and standard deviation remained within required limits. Detailed results of the spiked dosimeter evaluation are provided in Table 6-1.

6.2 Quality Control for the Environmental Sample Program

Sample analysis and quality control is performed in accordance with standard operating procedures. Quality control for the environmental sample program encompasses both the sample collection and sample analysis processes. Results are reviewed for correctness, reasonableness, and data entry errors. Sample results that are suspect are normally investigated. A crosscheck program utilizing blind samples supplied by an outside vendor is maintained for all sample media routinely analyzed.

6.2.1 Sample Collection Quality Control

Duplicate samples are collected and submitted for analysis when practical. The duplicate samples are used to assess the repeatability of the sample collection process and the precision of the analytical method.

6.2.2 Laboratory Instruments Quality Control

Analytical Balances - Analytical balances used in the laboratory for sample preparations are calibrated annually. Performance checks are performed prior to use and span the range of intended use. Performance check results are documented on the sample preparation forms and kept with the analytical results.

Analytical Instruments - Analytical instruments used for determining radioactive emissions in samples are calibrated for efficiency annually using standard reference material traceable to the National Institute of Standards and Technology (NIST). Below is a summary of the routine QC practices for the different analytical instruments.

- Gas-flow Proportional Counter: Background and performance checks are performed daily when in use. Control charts are maintained with two and three-sigma limits specified; the checks must fall within the two-sigma warning limits prior to use. Mid-batch QC and end of batch performance checks are typically performed.

- Gamma Spectrometers: Performance checked daily for efficiency, energy per channel relationship, peak resolution, and background when in use. The checks are performed and plotted for both a low and high energy peak. Efficiency checks are held within two-sigma control limits. Long duration background checks are performed quarterly. A low-level batch QC check is typically analyzed with each set of samples.

- Liquid Scintillation Counter: Background and performance checks are performed daily when in use. A performance check standard of the same matrix as the samples is analyzed and results trended. A control chart with acceptance limits specified is maintained. A low-level batch QC check is typically analyzed with each set of samples.

6.2.3 Sample Batch Quality Control

Sample batch analysis is normally performed with sample blanks and known-addition samples (or spiked samples) included. The type of known addition sample used is dictated by the sample media being analyzed, the primary analytes of interest, and the method being used. The following is a summary of sample batch QC activities.

Iodine-131 Cartridges - At least one known-addition sample is analyzed with each batch. A charcoal cartridge of the same type used for sample collection but spiked with barium-133 is used. The 356 keV peak of barium-133 serves as a proxy for the 364 keV peak of iodine-131. Samples from the control location serve as blanks.

Gross Beta Filters - At least one unused blank air particulate filter and at least one known-addition air particulate filter is analyzed with each batch.

Aqueous Samples – In most cases, samples collected from the control locations are analyzed as blanks. A known-addition sample is typically analyzed with each batch of samples.

Gross Alpha/Beta in Water - Blank samples are prepared from reagent grade water and analyzed with each batch of samples. One known addition sample and one replicate sample is normally analyzed with each batch.

Tritium in Water – A blank and a low-level known addition sample is typically analyzed with each batch. A replicate sample is prepared and analyzed with each batch when necessary.

6.3 Laboratory Intercomparison Program Participation and Results

Participation in crosscheck intercomparison studies is mandatory for laboratories performing analyses of CGS REMP samples. Intercomparison studies provide a consistent and effective means to evaluate the accuracy and precision of analyses performed by a laboratory. Study results should fall within specified control limits. Results that fall outside the control limits are investigated and corrective action taken.

The Energy Northwest Environmental Services Laboratory participated in three proficiency testing studies involving radioactive measurements provided by Environmental Resource Associates (ERA) during 2025. The Laboratory's intercomparison program was further supplemented by additional crosscheck media provided by ERA. All 2025 laboratory intercomparison program results were within acceptable limits. Participation in the ERA studies serve to meet the intercomparison program requirements specified in the ODCM.

In addition to participation in an intercomparison program, the CGS REMP routinely splits environmental samples with the WDOH. Split samples are sent to the WDOH lab on a scheduled frequency where they are independently analyzed. This split sample program provides an additional check on the accuracy and precision of the results reported in this document.

6.4 Laboratory Quality Control Program Findings and Improvements

No findings or needed improvements in REMP sampling or analyses were identified by the QC and intercomparison programs in 2025.

TABLE 6-1
2025 ENVIRONMENTAL SPIKED DOSIMETER RESULTS

PERIOD	SPIKE ID	KNOWN EXPOSURE (mR)	REPORTED EXPOSURE (mR)	BIAS (%)
1st Quarter	ENW Spike	90	81.8	-9.1
	ENW Spike	90	98.8	9.8
	ENW Spike	90	87.5	-2.8
	ENW Spike	90	88.4	-1.7
	ENW Spike	90	96.0	6.7
	ENW Spike	90	96.9	7.7
2nd Quarter	ENW Spike	122.6	125.7	2.5
	ENW Spike	122.6	135.1	10.2
	ENW Spike	122.6	125.7	2.5
	ENW Spike	122.6	123.8	1.0
	ENW Spike	122.6	127.6	4.1
	ENW Spike	122.6	128.5	4.8
3rd Quarter	ENW Spike	100	95.3	-4.7
	ENW Spike	100	102.8	2.8
	ENW Spike	100	103.8	3.8
	ENW Spike	100	98.1	-1.9
	ENW Spike	100	103.8	3.8
	ENW Spike	100	103.8	3.8
4th Quarter	ENW Spike	180	194.1	7.8
	ENW Spike	180	207.3	15.2
	ENW Spike	180	211.1	17.3
	ENW Spike	180	190.3	5.7
	ENW Spike	180	191.3	6.3
	ENW Spike	180	213.9	18.8

TABLE 6-2
ENW REMP PROGRAM CROSSCHECK PERFORMANCE RESULTS

ERA MRAD-42 Results Spring 2025					
Standard/Analyte	**Units**	**Reported Value**	**Assigned Value**	**Acceptance Limits**	**Performance Evaluation**
Air Filter Radionuclides					
Cesium-134	pCi/Filter	189	232	151 - 284	Acceptable
Cesium-137	pCi/Filter	498	451	370 - 592	Acceptable
Cobalt-60	pCi/Filter	243	250	212 - 318	Acceptable
Manganese-54	pCi/Filter	< 35.0	< 35.0	0.00 - 35.0	Acceptable
Zinc-65	pCi/Filter	726	632	518 - 966	Acceptable
Air Filter Gross Alpha/Beta					
Gross Alpha	pCi/Filter	41.2	39.5	20.6 - 65.1	Acceptable
Gross Beta	pCi/Filter	57.6	55.2	33.5 - 83.4	Acceptable
Water Radionuclides					
Cesium-134	pCi/L	1394	1600	1210 - 1760	Acceptable
Cesium-137	pCi/L	1056	1080	925 - 1230	Acceptable
Cobalt-60	pCi/L	255	255	220 - 293	Acceptable
Manganese-54	pCi/L	< 71.0	< 71.0	0.00 - 71.0	Acceptable
Zinc-65	pCi/L	245	231	206 - 292	Acceptable
Water Gross Alpha/Beta					
Gross Alpha	pCi/L	65.8	77.3	28.2 - 107	Acceptable
Gross Beta	pCi/L	79.6	99.4	49.7 - 137	Acceptable
Water Tritium					
Tritium	pCi/L	9262	9420	7100 - 11500	Acceptable
Soil Radionuclides					
Actinium-228	pCi/kg	1214	1150	759 - 1450	Acceptable
Bismuth-212	pCi/kg	957	1150	329 - 1710	Acceptable
Bismuth-214	pCi/kg	687	634	304 - 943	Acceptable
Cesium-134	pCi/kg	6349	6520	4460 - 7790	Acceptable
Cesium-137	pCi/kg	4580	4420	3340 - 5590	Acceptable
Cobalt-60	pCi/kg	3298	3260	2570 - 4020	Acceptable
Lead-212	pCi/kg	1282	1150	802 - 1450	Acceptable
Lead-214	pCi/kg	668	634	266 - 997	Acceptable
Manganese-54	pCi/kg	< 555	< 555	0.00 - 555	Acceptable
Potassium-40	pCi/kg	34777	34100	23500 - 40700	Acceptable
Zinc-65	pCi/kg	1367	1240	990 - 1690	Acceptable

TABLE 6-2 (Cont.)
ENW REMP PROGRAM CROSSCHECK PERFORMANCE RESULTS

ERA MRAD-43 Results Fall 2025					
Analyte	**Units**	**Reported Value**	**Assigned Value**	**Acceptance Limits**	**Performance Evaluation**
Air Filter Radionuclides					
Cesium-134	pCi/Filter	312	341	221 - 418	Acceptable
Cesium-137	pCi/Filter	473	379	311 - 497	Acceptable
Cobalt-60	pCi/Filter	347	322	274 - 409	Acceptable
Manganese-54	pCi/Filter	< 35.0	< 35.0	0.00 - 35.0	Acceptable
Zinc-65	pCi/Filter	242	193	158 - 295	Acceptable
Air Filter Gross Alpha/Beta					
Gross Alpha	pCi/Filter	21.6	22.0	11.5 - 36.2	Acceptable
Gross Beta	pCi/Filter	35.4	40.5	24.6 - 61.2	Acceptable
Water Radionuclides					
Cesium-134	pCi/L	652	765	578 - 842	Acceptable
Cesium-137	pCi/L	1660	1670	1430 - 1900	Acceptable
Cobalt-60	pCi/L	1950	2080	1790 - 2390	Acceptable
Manganese-54	pCi/L	< 71.0	< 71.0	0.00 - 71.0	Acceptable
Zinc-65	pCi/L	532	463	412 - 584	Acceptable
Water Gross Alpha/Beta					
Gross Alpha	pCi/L	110	136	49.6 - 188	Acceptable
Gross Beta	pCi/L	157	188	94.0 - 259	Acceptable
Water Tritium					
Tritium	pCi/L	26900	28300	21300 - 34400	Acceptable
Soil Radionuclides					
Actinium-228	pCi/kg	1090	1150	759 - 1450	Acceptable
Bismuth-212	pCi/kg	1130	1150	329 - 1710	Acceptable
Bismuth-214	pCi/kg	2410	2880	1380 - 4290	Acceptable
Cesium-134	pCi/kg	2930	3340	2280 - 3990	Acceptable
Cesium-137	pCi/kg	7070	7190	5440 - 9090	Acceptable
Cobalt-60	pCi/kg	1210	1190	937 - 1470	Acceptable
Lead-212	pCi/kg	1140	1150	802 - 1450	Acceptable
Lead-214	pCi/kg	2640	3020	1270 - 4750	Acceptable
Manganese-54	pCi/kg	< 555	< 555	0.00 - 555	Acceptable
Potassium-40	pCi/kg	32600	34100	23500 - 40700	Acceptable
Zinc-65	pCi/kg	3530	3820	3050 - 5210	Acceptable

TABLE 6-2 (Cont.)
ENW REMP PROGRAM CROSSCHECK PERFORMANCE RESULTS

ERA Custom Standard Lot# 12132402A Spring 2025 Iodine-131 Charcoal Cartridge					
Analyte	**Units**	**Reported Value**	**Assigned Value**	**Acceptance Limits**	**Performance Evaluation**
Iodine-131	pCi/Filter	512	450	336 - 579	Acceptable

ERA Custom Standard Lot# 12132401A Fall 2025 Iodine-131 Charcoal Cartridge					
Analyte	**Units**	**Reported Value**	**Assigned Value**	**Acceptance Limits**	**Performance Evaluation**
Iodine-131	pCi/Filter	333	289	216 - 372	Acceptable

2025 ERA RAD-141 Results Iodine-131 in Milk					
Analyte	**Units**	**Reported Value**	**Assigned Value**	**Acceptance Limits**	**Performance Evaluation**
Iodine-131	pCi/L	23.8	26.8	23.2 - 30.4	Acceptable

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7.0 REFERENCES

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7.0 REFERENCES

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2. Nuclear Regulatory Commission Fact Sheet “Fact Sheet on Radiation Monitoring at Nuclear Power Plants and the “Tooth Fairy” Issue, NRC Library, www.nrc.gov/docs/ML0500/ML050060411.pdf.

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15. Code of Federal Regulations, Title 10 Part 50, "Domestic Licensing of Production and Utilization Facilities."

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20. Code of Federal Regulations, Title 10 Part 72, “Licensing requirements for the independent storage of spent nuclear fuel, high-level radioactive waste, and reactor-related greater than class C waste”, Subpart C, 72.44, "License conditions”.

21. DOE, 2024, “Hanford Annual Site Environmental Report for Calendar Year 2023”, DOE/RL-2024-10 Rev 0, US Dept. of Energy, Richland, WA.

22. State of Washington, Energy Facility Site Evaluation Council, Council Order No. 874, approved January 21, 2015.

23. NRC Letter, GI2-22-017, Subject: Columbia Generating Station- Approval for Alternate Disposal Procedures for the Continued Onsite Disposal of Cooling Tower and Spray Pond Sludge in the Existing Sediment Disposal Area (EPID L-2020-LLL-0031).

24. American National Standards Institute, Inc., “Environmental Dosimetry – Criteria for System Design and Implementation” ANSI/HPS N13.37-2014.

25. State of Washington, Energy Facility Site Evaluation Council, Temporary State Waste Discharge Permit No. ST0501312, approved February 24. 2022.

8.0 ERRATA

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8.0 ERRATA

Errors or omissions identified in the 2023 and 2024 reports are listed below. All affected data have been corrected, with the corrections verified to ensure accuracy. These corrections do not significantly impact on the overall trends or conclusions presented in the report, as the results remain below the detection limit and therefore have minimal regulatory impact.

Revisions to the 2023 Annual Radiological Environmental Operating Report

In Appendix A, Tables A-5.1, B-3.1, B-4.1, B-5.1, B-6.1, and B-8.1, the first three collection periods were incorrectly listed as 12/29/22 to 1/29/23, 1/29/23 to 2/27/23, and 2/27/23 to 3/30/23. The correct collection periods are 12/29/22 to 2/2/23, 2/2/23 to 3/2/23, and 3/2/23 to 4/3/23. In addition, the analytical results for Stations 101B and 102B were incorrect for the first three collection periods. Updated results for Stations 101B and 102B are provided in Tables B-4.1, B-4.2, B-8.1, and B-8.2. The corrected data are highlighted in yellow.

TABLE B-4.1
TRITIUM IN STORM DRAIN WATER
Results in pCi/liter

Location	Collection Period			RQ	Activity		Error
ST-101B	12/29/22	-	02/02/23	+	4.66E+03	±	1.85E+02
	02/02/23	-	03/02/23	+	4.34E+03	±	1.83E+02
	03/02/23	-	04/03/23	+	6.09E+03	±	2.21E+02
	04/03/23	-	05/01/23	+	3.61E+03	±	1.78E+02
	05/01/23	-	06/01/23	<	2.82E+02	±	1.06E+02
	06/01/23	-	06/29/23	+	8.50E+02	±	1.19E+02
	06/29/23	-	07/31/23	<	2.94E+02	±	1.14E+02
	07/31/23	-	08/31/23	+	8.63E+02	±	1.18E+02
	08/31/23	-	09/28/23	+	5.52E+02	±	1.25E+02
	09/28/23	-	10/30/23	+	1.17E+03	±	1.31E+02
	10/30/23	-	11/30/23	+	5.04E+03	±	2.12E+02
	11/30/23	-	12/28/23	+	3.75E+03	±	1.79E+02

TABLE B-4.2
TRITIUM IN STORM DRAIN WATER - SUMMARY
Results in pCi/liter

Average Activity	Activity Low	Activity High	Number of Samples	Number of Positive IDs
2.63E+03	2.82E+02	6.09E+03	12	10

TABLE B-8.1
TRITIUM IN SANITARY WASTE TREATMENT WATER
Results in pCi/liter, MDA for all samples is 300 pCi/liter

Station	Description	Collection Period	RQ	Activity		Error
102B	SWTF Headworks	12/29/22 - 02/02/23		1.21E+02	±	9.33E+01
		02/02/23 - 03/02/23		7.71E+01	±	9.35E+01
		03/02/23 - 04/03/23		3.60E+01	±	2.16E+02
		04/03/23 - 05/01/23		4.50E+01	±	9.77E+01
		05/01/23 - 06/01/23		1.66E+02	±	1.02E+02
		06/01/23 - 06/29/23		1.27E+02	±	9.88E+01
		06/29/23 - 07/31/23		3.10E+01	±	1.08E+02
		07/31/23 - 08/31/23		2.08E+02	±	9.97E+01
		08/31/23 - 09/28/23		2.13E+02	±	1.01E+02
		09/28/23 - 10/30/23		2.53E+01	±	1.08E+02
		10/30/23 - 11/30/23		8.05E+01	±	1.04E+02
		11/30/23 - 12/28/23		1.99E+02	±	1.01E+02

TABLE B-8.2
TRITIUM IN SANITARY WASTE TREATMENT WATER - SUMMARY
Results in pCi/liter

Station	Description	Average Activity	Activity Low	Activity High	Number of Samples	Number of Positive IDs
102B	SWTF Headworks	1.11E+02	2.53E+01	2.13E+02	12	0

In Appendix A, Table A-7.1, the collection date for Station 29 was incorrectly listed as 10/24/2023. The correct collection date is 10/30/2023, and the corrected data reflecting this date are highlighted in yellow

Table A-7.1
GAMMA SPECTROMETRY RESULTS OF RIVER/DRINKING WATER
Station 26 - Control Station 29 - Indicator
Results in pCi/liter, corrected for decay during collection period

Location ST-29 collected 10/30/2023

Nuclide	RQ	Activity		Error	MDA
BALA140		6.25E-01	±	8.61E+00	1.14E+01
BI-214	+	2.92E+01	±	8.26E+00	1.00E+01
CO-58		-9.04E-01	±	3.57E+00	4.96E+00
CO-60		-3.23E-01	±	3.24E+00	4.56E+00
CR-51		1.08E+01	±	3.31E+01	4.83E+01
CS-134		-1.74E+00	±	4.85E+00	8.11E+00
CS-137		1.73E+00	±	3.37E+00	4.58E+00
FE-59		4.34E+00	±	8.28E+00	1.09E+01
I-131		-4.57E+00	±	1.07E+01	1.55E+01
K-40		3.80E+01	±	4.62E+01	6.34E+01
MN-54		-1.26E+00	±	3.52E+00	4.69E+00
ZN-65		1.97E+00	±	8.01E+00	1.37E+01
ZRNB-95		-2.78E+00	±	7.11E+00	9.73E+00

In Appendix A, Table A-6.1, the first two quarter collection period dates for Stations 26, 27, and 29 were incorrect, and all collection period dates for Station 52 were incorrect. In addition, the analytical results for Stations 27, 29, and 52 were incorrect. Updated results for Stations 27, 29, and 52 are provided in Tables A-6.1 and A-6.2. The corrected data are highlighted in yellow.

TABLE A-6.1
TRITIUM IN WATER
Results in pCi per liter, MDA for all samples is 300 pCi/l

Station	Description	Collection Period	RQ	Activity	Error
26	River/Drinking Control	12/29/22 - 04/03/23		8.05E+01 ±	9.15E+01
		04/03/23 - 06/29/23		1.20E+02 ±	1.00E+02
		06/29/23 - 09/28/23		1.37E+02 ±	1.04E+02
		09/28/23 - 12/28/23		1.12E+02 ±	1.03E+02
29	River/Drinking Indicator	12/29/22 - 04/03/23		1.15E+02 ±	1.18E+02
		04/03/23 - 06/29/23		1.05E+02 ±	9.91E+01
		06/29/23 - 09/28/23		1.41E+02 ±	1.00E+02
		09/28/23 - 12/28/23		5.26E+01 ±	1.07E+02
27	Plant Discharge	12/29/22 - 04/03/23		1.09E+02 ±	9.35E+01
		04/03/23 - 06/29/23		1.26E+02 ±	3.90E+01
		06/29/23 - 09/28/23		1.83E+02 ±	4.40E+01
		09/28/23 - 12/28/23		2.02E+02 ±	4.90E+01
31	Ground Water Well 1	03/06/23		5.07E+01 ±	9.50E+01
		06/08/23		8.50E+01 ±	9.85E+01
		08/16/23		1.23E+02 ±	1.01E+02
		11/06/23		5.86E+01 ±	9.68E+01
32	Ground Water Well 2	03/06/23		8.90E+01 ±	9.46E+01
		06/08/23		1.26E+02 ±	9.98E+01
		08/16/23		1.42E+02 ±	1.02E+02
		11/06/23		5.12E+01 ±	9.71E+01
52	Ground Water Well 3	03/06/23		2.53E+01 ±	9.42E+01
		06/08/23		8.28E+01 ±	9.81E+01
		08/16/23		1.46E+02 ±	1.02E+02
		12/04/23		-1.62E+02 ±	1.14E+02

TABLE A-6.2
TRITIUM IN WATER - Summary
Results in pCi per liter

Location Description	Average Activity	Activity Low	Activity High	Number of Samples	Number of Positive IDs
River/Drinking Control	1.13E+02	8.05E+01	1.37E+02	4	0
River/Drinking Indicator	1.03E+02	5.26E+01	1.41E+02	4	0
Discharge Indicator	1.55E+02	1.09E+02	2.02E+02	4	0
Ground Water Indicator	6.81E+01	-1.62E+02	1.46E+02	12	0

Revisions to the 2024 Annual Radiological Environmental Operating Report

In Appendix A, Table A-7.1, the collection date for Station 26 was incorrectly listed as 9/5/2024. The correct collection date is 9/4/2024, and the corrected data reflecting this date are highlighted in yellow

Table A-7.1
GAMMA SPECTROMETRY RESULTS OF RIVER/DRINKING WATER
Station 26 - Control Station 29 - Indicator
Results in pCi/liter, corrected for decay during collection period

Location ST-26 collected 9/4/2024

Nuclide	RQ	Activity	±	Error	MDA
BALA140		2.70E+00	±	6.79E+00	8.48E+00
BI-214		2.65E+00	±	5.91E+00	8.63E+00
CO-58		6.55E-01	±	2.47E+00	3.33E+00
CO-60		-1.39E+00	±	3.27E+00	4.13E+00
CR-51		2.10E+01	±	3.36E+01	4.65E+01
CS-134		-1.65E+00	±	2.92E+00	3.92E+00
CS-137		8.58E-01	±	2.83E+00	3.87E+00
FE-59		4.21E+00	±	8.23E+00	1.04E+01
I-131		-3.93E+00	±	9.84E+00	1.37E+01
K-40		-1.01E+01	±	3.38E+01	5.17E+01
MN-54		-2.01E+00	±	3.18E+00	4.15E+00
ZN-65		-1.96E+00	±	6.15E+00	7.99E+00
ZRNB-95		-1.09E-01	±	4.79E+00	6.50E+00

In Appendix A, Table B-17.1, the error values were incorrectly listed using the activity values. The correct error values are highlighted in yellow.

TABLE B-17.1
CARBON 14 IN APPLES
Results in pCi/gram wet mass

Location	Distance from CGS, miles	Sector from CGS	Sample Type	Collection Date	RQ	Activity	Error	MDA
ST-37	4.3	ESE	Ind	8/28/2024	+	1.05E+00	4.50E-01	7.10E-01
ST-37	4.3	ESE	Ind	8/28/2024	+	1.12E+00	4.50E-01	7.10E-01
Mesa	9.53	NNE	Ind	8/28/2024		5.30E-01	4.20E-01	7.10E-01
Benton City	19.63	SW	Cntl	8/28/2024		6.30E-01	4.30E-01	7.10E-01
Kennewick	17.8	SSE	Cntl	8/28/2024		6.80E-01	4.30E-01	7.10E-01

APPENDIX A

2025 ANNUAL RADIOLOGICAL ENVIRONMENTAL OPERATING REPORT COLUMBIA GENERATING STATION

DATA TABLES A and B

Sample Collection Period Calendar Year 2025

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM

Prepared by:
Energy Northwest - Environmental Services Staff
Richland, WA

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APPENDIX A - TABLE OF CONTENTS
TABLE A: ROUTINE RESULTS

APPENDIX A - TABLE OF CONTENTS

TABLE A: ROUTINE RESULTS –Cont.

TABLE B: SPECIAL INTEREST SAMPLE RESULTS

FORWARD

Since mid-1984, the results of the REMP analyses have been presented as net results calculated from total counts minus the observed background counts of the detection method. Counting results for low level samples are often within the counting error of the background determination; consequently, results can range from negative to positive values in these samples. Though most of the analytical results presented in this Appendix are below the detection limit, listing the actual calculated value, even when it is negative or below the detection limit, prevents positive biases and loss of individual results inherent in the use of "less than" (<) values. It is recommended practice to report radiological environmental data in this manner.

Most results listed in this Appendix are accompanied by a plus or minus (±) error value. In most cases the error value represents the two sigma counting uncertainty determined for that particular analysis. These error values are in the same units as the listed activity values. The two sigma error value represents the range that a recount of the same sample would be expected to fall within 95% of the time, based on the statistics encountered in the original count.

Also included in most cases are the analysis specific, minimum detectable activity (MDA) values. Though similar in concept to the lower limit of detection (LLD), these values are based on the statistics encountered in the specific sample count itself and not a blank determination. As such, they are an *a posteriori* (after the fact) determination where the LLD is an *a priori* (before the fact) determination. These values are included as they represent the level of activity required to be present in the sample for a positive identification to be made.

TABLE A-1.1

2025 QUARTERLY DOSIMETER RESULTS

Results in milli-Roentgen (mR) per Standard Quarter

Station ID	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Quarterly Sum
1	31.8	26.9	28.9	27.2	114.8
2	31.5	32.1	28.6	28.1	120.4
3	28.7	28.1	27.7	31.0	115.5
4	28.1	28.8	24.2	29.1	110.1
5	27.1	27.8	27.1	30.0	112.0
6	26.2	28.8	27.1	27.2	109.2
7	27.1	30.7	28.0	29.1	114.9
8	30.9	29.7	28.9	30.0	119.6
9	28.1	26.9	28.0	27.2	110.1
10	25.8	27.1	25.0	29.1	107.0
11	26.8	24.2	29.5	28.1	108.6
12	29.0	29.7	NA	27.2	114.5
13	28.7	29.1	26.8	30.0	114.6
14	27.7	31.1	25.0	29.1	112.9
15	28.7	28.1	28.6	32.9	118.3
16	26.8	26.2	25.0	26.2	104.2
17	29.6	32.1	27.7	28.1	117.6
18	33.5	27.1	26.8	29.1	116.5
19	28.7	30.1	26.8	28.1	113.7
20	27.7	29.1	26.8	29.1	112.7
21	26.8	25.2	26.8	27.2	105.9
22	26.8	31.1	26.8	30.0	114.7
23	24.3	25.0	23.3	31.0	103.6
24	24.8	27.1	27.7	29.1	108.8
25	28.7	33.1	29.5	31.0	122.3
40	25.2	25.0	23.3	26.2	99.8
41	28.1	25.0	25.2	31.9	110.1
42	25.2	27.8	27.1	31.0	111.1
43	26.2	28.8	26.1	31.0	112.1
44	29.0	27.8	23.3	28.1	108.2
45	28.1	26.9	24.2	26.2	105.4
46	29.0	33.5	34.6	39.5	136.6
47	26.2	25.9	25.2	29.1	106.4
49	28.7	23.2	26.8	31.0	109.7
50	31.5	26.2	27.7	25.3	110.7
51	25.8	26.2	27.7	29.1	108.8
53	26.2	25.0	22.3	31.0	104.5
54	30.9	28.8	23.3	31.0	113.9
55	25.2	25.0	28.0	32.9	111.1
56	27.1	30.7	27.1	29.1	113.9
65	25.2	27.8	28.0	30.0	111.1

TABLE A-1.1

2025 QUARTERLY DOSIMETER RESULTS

Results in milli-Roentgen (mR) per Standard Quarter

Station ID	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Quarterly Sum
71	33.5	32.1	26.8	37.6	130.0
72	27.7	28.1	32.3	34.8	122.9
73	30.6	29.1	32.3	29.1	121.1
74	36.3	28.1	30.4	26.2	121.1
75	25.8	29.1	27.7	30.0	112.7
76	29.6	33.1	26.8	31.0	120.5
77	31.5	26.2	26.8	29.1	113.6
78	25.8	28.1	25.0	32.9	111.8
79	26.8	27.1	25.0	31.9	110.8
80	27.7	30.1	26.8	28.1	112.8
81	25.8	32.1	24.1	26.2	108.2
82	29.6	31.1	28.6	32.9	122.2
83	25.8	26.2	26.8	31.9	110.7
84	29.6	29.1	27.7	31.9	118.4
85	31.5	31.1	33.2	29.1	124.9
86	32.5	32.1	35.9	35.7	136.2

The dosimeter at Station 12 was lost in the 3rd Quarter 2025.
The reported quarterly sum for this location is a normalized annual value based on the available 3 quarters of data.

TABLE A-1.2

2025 QUARTERLY DOSIMETER RESULTS - SUMMARY

Results in milli-Roentgen (mR) per Standard Quarter

Location	Average Activity	Activity Low	Activity High	Number of Samples
Quarterly Indicator Dosimeters	28.5	22.3	39.5	223
Quarterly Control Dosimeters	27.5	26.9	28.1	4

TABLE A-2.1

GROSS BETA ON AIR PARTICULATE FILTERS

Results in pCi/cubic meter

Collection Period	Station 01 Result	Station 01 Error	Station 04 Result	Station 04 Error	Station 05 Result	Station 05 Error
12/30/2024 - 1/7/2025	8.76E-03	5.28E-04	7.04E-03	4.62E-04	8.18E-03	5.10E-04
1/7/2025 - 1/14/2025	1.01E-02	6.15E-04	8.48E-03	5.87E-04	8.94E-03	5.85E-04
1/14/2025 - 1/21/2025	1.98E-02	8.53E-04	1.93E-02	8.87E-04	1.85E-02	8.89E-04
1/21/2025 - 1/28/2025	2.95E-02	1.04E-03	3.09E-02	1.11E-03	3.26E-02	1.11E-03
1/28/2025 - 2/4/2025	3.33E-02	1.11E-03	3.73E-02	1.23E-03	3.35E-02	1.13E-03
2/4/2025 - 2/11/2025	2.69E-02	9.79E-04	2.42E-02	9.73E-04	2.01E-02	8.55E-04
2/11/2025 - 2/18/2025	3.02E-02	1.04E-03	3.86E-02	1.22E-03	3.58E-02	1.14E-03
2/18/2025 - 2/25/2025	1.36E-02	8.35E-04	1.05E-02	6.65E-04	8.06E-03	5.74E-04
2/25/2025 - 3/4/2025	8.19E-03	6.28E-04	1.20E-02	7.26E-04	9.36E-03	6.07E-04
3/4/2025 - 3/11/2025	7.32E-03	5.70E-04	5.82E-03	5.11E-04	7.21E-03	5.62E-04
3/11/2025 - 3/18/2025	4.72E-03	4.70E-04	4.15E-03	4.49E-04	4.95E-03	4.73E-04
3/18/2025 - 3/25/2025	4.40E-03	4.63E-04	4.03E-03	4.47E-04	2.67E-03	3.98E-04
3/25/2025 - 4/1/2025	5.95E-03	5.29E-04	5.51E-03	4.98E-04	5.34E-03	4.80E-04
4/1/2025 - 4/8/2025	1.46E-02	7.60E-04	1.34E-02	7.27E-04	1.13E-02	6.72E-04
4/8/2025 - 4/15/2025	1.00E-02	6.56E-04	6.93E-03	5.52E-04	7.35E-03	5.61E-04
4/15/2025 - 4/22/2025	1.10E-02	6.89E-04	1.01E-02	6.58E-04	9.23E-03	6.29E-04
4/22/2025 - 4/29/2025	2.13E-02	9.14E-04	1.35E-02	7.36E-04	1.48E-02	7.55E-04
4/29/2025 - 5/6/2025	1.15E-02	6.92E-04	9.77E-03	6.46E-04	1.30E-02	7.18E-04
5/6/2025 - 5/13/2025	1.50E-02	1.63E-03	1.20E-02	7.32E-04	1.28E-02	7.38E-04
5/13/2025 - 5/20/2025	5.72E-03	5.27E-04	4.55E-03	4.85E-04	3.68E-03	4.40E-04
5/20/2025 - 5/27/2025	8.57E-03	6.13E-04	1.31E-02	7.51E-04	1.14E-02	6.86E-04
5/27/2025 - 6/3/2025	1.60E-02	7.92E-04	9.37E-03	6.12E-04	1.08E-02	6.66E-04
6/3/2025 - 6/10/2025	1.37E-02	7.34E-04	1.11E-02	6.76E-04	1.06E-02	6.80E-04
6/10/2025 - 6/17/2025	1.33E-02	7.05E-04	1.36E-02	7.31E-04	1.58E-02	7.98E-04
6/17/2025 - 6/24/2025	7.89E-03	5.71E-04	6.19E-03	5.22E-04	5.50E-03	5.07E-04
6/24/2025 - 7/1/2025	1.02E-02	6.31E-04	9.25E-03	6.17E-04	8.83E-03	6.10E-04
7/1/2025 - 7/8/2025	1.04E-02	6.42E-04	1.33E-02	7.40E-04	1.16E-02	7.10E-04
7/8/2025 - 7/15/2025	1.07E-02	6.77E-04	9.07E-03	6.25E-04	8.71E-03	6.04E-04
7/15/2025 - 7/22/2025	1.33E-02	7.20E-04	1.35E-02	7.45E-04	1.26E-02	7.28E-04
7/22/2025 - 7/29/2025	1.29E-02	7.10E-04	1.41E-02	7.58E-04	1.49E-02	7.91E-04
7/29/2025 - 8/5/2025	1.85E-02	8.32E-04	1.79E-02	8.54E-04	1.35E-02	7.51E-04
8/5/2025 - 8/12/2025	8.56E-03	5.76E-04	7.23E-03	5.71E-04	7.63E-03	5.89E-04
8/12/2025 - 8/19/2025	8.73E-03	6.04E-04	9.56E-03	6.43E-04	7.00E-03	5.47E-04
8/19/2025 - 8/26/2025	2.29E-02	9.11E-04	1.76E-02	8.53E-04	2.16E-02	8.98E-04
8/26/2025 - 9/2/2025	3.59E-02	1.14E-03	3.25E-02	1.15E-03	3.85E-02	1.21E-03
9/2/2025 - 9/9/2025	4.92E-02	1.39E-03	4.17E-02	1.30E-03	4.27E-02	1.29E-03
9/9/2025 - 9/16/2025	1.25E-02	6.72E-04	1.70E-02	8.38E-04	1.66E-02	7.81E-04
9/16/2025 - 9/23/2025	1.92E-02	8.13E-04	2.18E-02	9.26E-04	1.49E-02	7.33E-04
9/23/2025 - 9/30/2025	1.96E-02	8.16E-04	2.31E-02	9.46E-04	1.67E-02	7.78E-04
9/30/2025 - 10/7/2025	9.99E-03	6.03E-04	1.02E-02	6.57E-04	9.51E-03	6.22E-04
10/7/2025 - 10/14/2025	2.28E-02	9.00E-04	1.70E-02	7.93E-04	1.89E-02	8.16E-04
10/14/2025 - 10/21/2025	1.45E-02	7.13E-04	1.46E-02	7.50E-04	1.45E-02	7.09E-04
10/21/2025 - 10/28/2025	1.45E-02	7.24E-04	1.13E-02	6.41E-04	9.55E-03	5.80E-04
10/28/2025 - 11/4/2025	1.43E-02	7.04E-04	9.32E-03	6.12E-04	1.17E-02	6.74E-04
11/4/2025 - 11/11/2025	1.21E-02	6.65E-04	1.46E-02	7.58E-04	1.32E-02	7.29E-04
11/11/2025 - 11/18/2025	2.13E-02	8.62E-04	2.28E-02	9.28E-04	1.95E-02	8.59E-04
11/18/2025 - 11/24/2025	2.40E-02	1.01E-03	1.84E-02	9.07E-04	1.44E-02	8.00E-04
11/24/2025 - 12/2/2025	2.18E-02	7.84E-04	2.28E-02	8.50E-04	2.67E-02	9.28E-04
12/2/2025 - 12/9/2025	1.89E-02	8.42E-04	2.20E-02	8.95E-04	1.65E-02	7.78E-04
12/9/2025 - 12/16/2025	7.73E-03	5.80E-04	7.06E-03	5.51E-04	6.38E-03	5.25E-04
12/16/2025 - 12/22/2025	4.13E-03	4.86E-04	3.83E-03	4.78E-04	4.64E-03	5.08E-04
12/22/2025 - 12/30/2025	1.11E-02	6.15E-04	1.22E-02	6.39E-04	1.08E-02	5.93E-04

Average MDA for analyses in Table A-2.1 was 9.01E-04.

NVS = Valid sample not obtained due to sampler failure or maintenance outage.

*Collection Period for ST-23: 11/25/2025 - 12/2/2025.

TABLE A-2.1

GROSS BETA ON AIR PARTICULATE FILTERS

Results in pCi/cubic meter

Collection Period	Station 06 Result	Station 06 Error	Station 07 Result	Station 07 Error	Station 08 Result	Station 08 Error
12/30/2024 - 1/7/2025	8.30E-03	4.98E-04	8.24E-03	5.41E-04	7.94E-03	5.27E-04
1/7/2025 - 1/14/2025	1.06E-02	6.42E-04	1.05E-02	6.59E-04	1.06E-02	6.84E-04
1/14/2025 - 1/21/2025	1.86E-02	8.73E-04	1.87E-02	8.79E-04	3.23E-02	1.30E-03
1/21/2025 - 1/28/2025	2.34E-02	9.52E-04	2.64E-02	1.04E-03	3.00E-02	1.08E-03
1/28/2025 - 2/4/2025	3.49E-02	1.17E-03	3.08E-02	1.13E-03	2.94E-02	1.11E-03
2/4/2025 - 2/11/2025	2.44E-02	9.62E-04	2.26E-02	9.56E-04	2.50E-02	1.01E-03
2/11/2025 - 2/18/2025	3.34E-02	1.12E-03	3.76E-02	2.27E-03	3.37E-02	1.16E-03
2/18/2025 - 2/25/2025	1.06E-02	6.67E-04	9.74E-03	6.43E-04	8.20E-03	6.10E-04
2/25/2025 - 3/4/2025	9.23E-03	6.47E-04	1.04E-02	7.05E-04	8.67E-03	6.20E-04
3/4/2025 - 3/11/2025	4.60E-03	4.91E-04	6.38E-03	5.24E-04	5.39E-03	4.94E-04
3/11/2025 - 3/18/2025	4.51E-03	4.83E-04	3.56E-03	4.14E-04	4.43E-03	4.56E-04
3/18/2025 - 3/25/2025	3.62E-03	4.52E-04	2.64E-03	3.80E-04	3.45E-03	4.30E-04
3/25/2025 - 4/1/2025	4.42E-03	4.81E-04	4.82E-03	4.76E-04	5.22E-03	4.77E-04
4/1/2025 - 4/8/2025	1.06E-02	6.42E-04	1.27E-02	7.00E-04	1.22E-02	6.99E-04
4/8/2025 - 4/15/2025	7.04E-03	5.47E-04	5.94E-03	5.13E-04	5.74E-03	5.21E-04
4/15/2025 - 4/22/2025	9.34E-03	6.28E-04	1.03E-02	6.52E-04	7.44E-03	5.88E-04
4/22/2025 - 4/29/2025	1.50E-02	7.55E-04	1.68E-02	7.91E-04	1.21E-02	6.98E-04
4/29/2025 - 5/6/2025	1.17E-02	6.85E-04	1.21E-02	6.88E-04	1.11E-02	6.85E-04
5/6/2025 - 5/13/2025	1.35E-02	7.47E-04	1.05E-02	6.65E-04	1.23E-02	7.42E-04
5/13/2025 - 5/20/2025	4.06E-03	4.47E-04	3.77E-03	4.46E-04	4.03E-03	4.64E-04
5/20/2025 - 5/27/2025	1.23E-02	7.07E-04	1.34E-02	7.31E-04	1.22E-02	7.22E-04
5/27/2025 - 6/3/2025	9.82E-03	6.40E-04	1.15E-02	6.78E-04	1.18E-02	7.18E-04
6/3/2025 - 6/10/2025	1.06E-02	6.83E-04	1.29E-02	7.24E-04	1.26E-02	7.09E-04
6/10/2025 - 6/17/2025	1.28E-02	7.32E-04	1.36E-02	7.33E-04	1.38E-02	7.24E-04
6/17/2025 - 6/24/2025	6.47E-03	5.46E-04	6.78E-03	5.40E-04	6.68E-03	5.30E-04
6/24/2025 - 7/1/2025	1.06E-02	6.68E-04	1.09E-02	6.53E-04	1.02E-02	6.38E-04
7/1/2025 - 7/8/2025	9.64E-03	6.55E-04	1.07E-02	6.63E-04	1.11E-02	6.84E-04
7/8/2025 - 7/15/2025	1.15E-02	6.91E-04	8.90E-03	6.17E-04	9.17E-03	6.02E-04
7/15/2025 - 7/22/2025	1.35E-02	7.42E-04	1.43E-02	7.50E-04	1.43E-02	7.49E-04
7/22/2025 - 7/29/2025	1.52E-02	7.87E-04	1.49E-02	7.66E-04	1.57E-02	8.00E-04
7/29/2025 - 8/5/2025	1.90E-02	8.75E-04	1.54E-02	7.80E-04	1.34E-02	7.33E-04
8/5/2025 - 8/12/2025	8.28E-03	6.00E-04	4.69E-03	4.67E-04	7.20E-03	5.69E-04
8/12/2025 - 8/19/2025	1.02E-02	6.63E-04	7.42E-03	5.74E-04	1.02E-02	6.37E-04
8/19/2025 - 8/26/2025	2.36E-02	9.71E-04	1.60E-02	8.00E-04	1.74E-02	8.18E-04
8/26/2025 - 9/2/2025	4.98E-02	1.42E-03	3.83E-02	1.23E-03	4.36E-02	1.45E-03
9/2/2025 - 9/9/2025	4.72E-02	1.41E-03	4.32E-02	1.31E-03	3.83E-02	1.24E-03
9/9/2025 - 9/16/2025	1.41E-02	7.56E-04	1.56E-02	7.91E-04	1.51E-02	7.68E-04
9/16/2025 - 9/23/2025	2.32E-02	9.47E-04	1.96E-02	8.60E-04	1.72E-02	7.97E-04
9/23/2025 - 9/30/2025	2.99E-02	1.09E-03	1.98E-02	8.65E-04	1.64E-02	7.82E-04
9/30/2025 - 10/7/2025	1.03E-02	6.57E-04	8.63E-03	6.05E-04	9.84E-03	6.41E-04
10/7/2025 - 10/14/2025	2.04E-02	8.79E-04	1.77E-02	8.33E-04	1.52E-02	7.45E-04
10/14/2025 - 10/21/2025	1.64E-02	7.94E-04	1.23E-02	6.97E-04	1.27E-02	6.78E-04
10/21/2025 - 10/28/2025	1.29E-02	7.10E-04	8.91E-03	6.05E-04	9.32E-03	5.83E-04
10/28/2025 - 11/4/2025	1.23E-02	6.94E-04	1.20E-02	6.69E-04	1.17E-02	6.50E-04
11/4/2025 - 11/11/2025	1.29E-02	7.13E-04	1.35E-02	7.37E-04	1.68E-02	7.84E-04
11/11/2025 - 11/18/2025	2.51E-02	9.69E-04	1.98E-02	8.84E-04	1.70E-02	7.80E-04
11/18/2025 - 11/24/2025	1.82E-02	8.87E-04	1.78E-02	9.19E-04	1.89E-02	8.80E-04
11/24/2025 - 12/2/2025	2.73E-02	9.25E-04	2.43E-02	8.52E-04	1.89E-02	7.57E-04
12/2/2025 - 12/9/2025	1.92E-02	8.18E-04	1.85E-02	8.17E-04	1.85E-02	7.86E-04
12/9/2025 - 12/16/2025	7.27E-03	5.64E-04	5.85E-03	5.19E-04	5.66E-03	4.76E-04
12/16/2025 - 12/22/2025	3.67E-03	4.82E-04	5.11E-03	5.31E-04	5.86E-03	5.35E-04
12/22/2025 - 12/30/2025	9.03E-03	5.72E-04	7.69E-03	5.36E-04	1.36E-02	6.36E-04

Average MDA for analyses in Table A-2.1 was 9.01E-04.

NVS = Valid sample not obtained due to sampler failure or maintenance outage.

*Collection Period for ST-23: 11/25/2025 - 12/2/2025.

TABLE A-2.1

GROSS BETA ON AIR PARTICULATE FILTERS

Results in pCi/cubic meter

Collection Period	Station 09 Result	Station 09 Error	Station 21B Result	Station 21B Error	Station 23 Result	Station 23 Error
12/30/2024 - 1/7/2025	7.60E-03	5.26E-04	1.01E-02	5.43E-04	7.95E-03	5.05E-04
1/7/2025 - 1/14/2025	7.68E-03	5.91E-04	1.12E-02	6.74E-04	1.10E-02	6.36E-04
1/14/2025 - 1/21/2025	2.79E-02	1.03E-03	3.10E-02	9.78E-04	1.92E-02	8.39E-04
1/21/2025 - 1/28/2025	2.85E-02	1.06E-03	2.53E-02	1.00E-03	2.43E-02	9.57E-04
1/28/2025 - 2/4/2025	3.01E-02	1.11E-03	3.22E-02	1.16E-03	3.60E-02	1.17E-03
2/4/2025 - 2/11/2025	2.59E-02	1.01E-03	2.80E-02	1.06E-03	2.49E-02	9.53E-04
2/11/2025 - 2/18/2025	3.76E-02	1.21E-03	3.79E-02	1.22E-03	3.82E-02	1.18E-03
2/18/2025 - 2/25/2025	7.56E-03	5.76E-04	1.25E-02	7.10E-04	9.22E-03	5.91E-04
2/25/2025 - 3/4/2025	6.37E-03	5.58E-04	8.11E-03	6.25E-04	1.21E-02	7.12E-04
3/4/2025 - 3/11/2025	6.85E-03	5.44E-04	8.39E-03	6.10E-04	6.63E-03	5.43E-04
3/11/2025 - 3/18/2025	5.21E-03	4.74E-04	5.13E-03	4.68E-04	4.43E-03	4.65E-04
3/18/2025 - 3/25/2025	3.81E-03	4.55E-04	5.31E-03	4.79E-04	4.24E-03	4.51E-04
3/25/2025 - 4/1/2025	4.77E-03	4.61E-04	8.72E-03	6.10E-04	5.11E-03	5.06E-04
4/1/2025 - 4/8/2025	1.17E-02	6.69E-04	9.04E-03	5.99E-04	1.15E-02	6.84E-04
4/8/2025 - 4/15/2025	8.68E-03	5.98E-04	9.71E-03	6.19E-04	8.62E-03	6.01E-04
4/15/2025 - 4/22/2025	1.10E-02	6.75E-04	1.26E-02	7.07E-04	9.89E-03	6.51E-04
4/22/2025 - 4/29/2025	1.54E-02	7.64E-04	1.43E-02	7.39E-04	1.58E-02	7.90E-04
4/29/2025 - 5/6/2025	1.25E-02	7.07E-04	1.20E-02	7.01E-04	1.23E-02	7.10E-04
5/6/2025 - 5/13/2025	1.37E-02	7.51E-04	1.37E-02	7.58E-04	1.10E-02	7.01E-04
5/13/2025 - 5/20/2025	4.48E-03	4.64E-04	5.76E-03	5.19E-04	3.83E-03	4.59E-04
5/20/2025 - 5/27/2025	1.16E-02	6.86E-04	6.98E-03	5.80E-04	1.26E-02	7.21E-04
5/27/2025 - 6/3/2025	1.25E-02	7.16E-04	1.48E-02	7.47E-04	1.14E-02	6.91E-04
6/3/2025 - 6/10/2025	9.54E-03	6.47E-04	1.29E-02	7.09E-04	1.18E-02	6.71E-04
6/10/2025 - 6/17/2025	1.50E-02	7.76E-04	1.51E-02	7.51E-04	1.66E-02	7.55E-04
6/17/2025 - 6/24/2025	7.31E-03	5.69E-04	8.41E-03	5.80E-04	5.50E-03	4.90E-04
6/24/2025 - 7/1/2025	1.23E-02	6.95E-04	1.18E-02	6.75E-04	9.45E-03	6.09E-04
7/1/2025 - 7/8/2025	1.43E-02	7.61E-04	1.14E-02	6.74E-04	1.34E-02	7.21E-04
7/8/2025 - 7/15/2025	9.01E-03	6.13E-04	1.15E-02	7.03E-04	8.99E-03	6.28E-04
7/15/2025 - 7/22/2025	1.46E-02	7.65E-04	1.15E-02	6.81E-04	1.10E-02	6.58E-04
7/22/2025 - 7/29/2025	1.33E-02	7.29E-04	1.49E-02	7.67E-04	1.35E-02	7.22E-04
7/29/2025 - 8/5/2025	1.67E-02	8.16E-04	1.44E-02	7.57E-04	1.69E-02	8.04E-04
8/5/2025 - 8/12/2025	8.59E-03	6.07E-04	8.95E-03	6.07E-04	8.94E-03	6.00E-04
8/12/2025 - 8/19/2025	6.94E-03	5.50E-04	1.01E-02	6.65E-04	8.24E-03	6.05E-04
8/19/2025 - 8/26/2025	2.23E-02	9.36E-04	2.09E-02	9.00E-04	2.00E-02	8.81E-04
8/26/2025 - 9/2/2025	3.75E-02	1.22E-03	4.17E-02	1.28E-03	3.86E-02	1.22E-03
9/2/2025 - 9/9/2025	3.99E-02	1.27E-03	4.59E-02	1.35E-03	4.41E-02	1.31E-03
9/9/2025 - 9/16/2025	2.04E-02	8.95E-04	2.01E-02	8.99E-04	1.44E-02	7.58E-04
9/16/2025 - 9/23/2025	1.92E-02	8.58E-04	2.47E-02	9.80E-04	1.72E-02	8.03E-04
9/23/2025 - 9/30/2025	2.25E-02	9.14E-04	1.86E-02	8.46E-04	1.88E-02	8.45E-04
9/30/2025 - 10/7/2025	9.51E-03	6.24E-04	9.78E-03	6.34E-04	9.96E-03	6.44E-04
10/7/2025 - 10/14/2025	1.77E-02	8.08E-04	1.67E-02	8.21E-04	1.78E-02	8.45E-04
10/14/2025 - 10/21/2025	1.46E-02	7.25E-04	1.37E-02	7.49E-04	2.03E-02	9.68E-04
10/21/2025 - 10/28/2025	1.05E-02	6.24E-04	1.55E-02	7.97E-04	NVS	NVS
10/28/2025 - 11/4/2025	1.25E-02	6.89E-04	1.41E-02	7.40E-04	NVS	NVS
11/4/2025 - 11/11/2025	1.38E-02	7.33E-04	1.46E-02	7.78E-04	NVS	NVS
11/11/2025 - 11/18/2025	1.80E-02	8.05E-04	2.05E-02	9.01E-04	NVS	NVS
11/18/2025 - 11/24/2025	2.04E-02	9.46E-04	1.78E-02	9.24E-04	NVS	NVS
* 11/24/2025 - 12/2/2025	1.87E-02	7.50E-04	2.00E-02	7.98E-04	2.57E-02	9.40E-04
12/2/2025 - 12/9/2025	2.24E-02	9.24E-04	1.62E-02	7.83E-04	1.62E-02	7.85E-04
12/9/2025 - 12/16/2025	4.98E-03	4.99E-04	7.77E-03	5.60E-04	6.72E-03	5.58E-04
12/16/2025 - 12/22/2025	3.42E-03	4.84E-04	5.63E-03	5.14E-04	2.62E-03	4.27E-04
12/22/2025 - 12/30/2025	7.41E-03	5.30E-04	1.19E-02	6.09E-04	9.79E-03	5.95E-04

Average MDA for analyses in Table A-2.1 was 9.01E-04.

NVS = Valid sample not obtained due to sampler failure or maintenance outage.

*Collection Period for ST-23: 11/25/2025 - 12/2/2025.

TABLE A-2.1

GROSS BETA ON AIR PARTICULATE FILTERS

Results in pCi/cubic meter

Collection Period	Station 40 Result	Station 40 Error	Station 48 Result	Station 48 Error	Station 57 Result	Station 57 Error
12/30/2024 - 1/7/2025	6.71E-03	4.66E-04	9.08E-03	5.75E-04	8.25E-03	4.97E-04
1/7/2025 - 1/14/2025	1.01E-02	6.20E-04	1.14E-02	6.93E-04	9.94E-03	5.96E-04
1/14/2025 - 1/21/2025	2.28E-02	9.87E-04	2.43E-02	8.74E-04	1.99E-02	8.48E-04
1/21/2025 - 1/28/2025	3.25E-02	1.10E-03	2.53E-02	9.98E-04	2.86E-02	1.00E-03
1/28/2025 - 2/4/2025	3.41E-02	1.13E-03	3.41E-02	1.24E-03	3.16E-02	1.07E-03
2/4/2025 - 2/11/2025	2.19E-02	8.92E-04	2.37E-02	9.23E-04	2.49E-02	9.29E-04
2/11/2025 - 2/18/2025	3.61E-02	1.14E-03	3.21E-02	1.08E-03	4.03E-02	1.18E-03
2/18/2025 - 2/25/2025	9.93E-03	6.34E-04	9.66E-03	6.11E-04	1.15E-02	6.42E-04
2/25/2025 - 3/4/2025	9.26E-03	6.13E-04	8.87E-03	5.77E-04	9.84E-03	6.31E-04
3/4/2025 - 3/11/2025	6.39E-03	5.35E-04	7.34E-03	5.55E-04	6.33E-03	5.22E-04
3/11/2025 - 3/18/2025	4.18E-03	4.52E-04	4.07E-03	4.41E-04	4.84E-03	4.60E-04
3/18/2025 - 3/25/2025	4.11E-03	4.62E-04	3.21E-03	4.14E-04	3.80E-03	4.26E-04
3/25/2025 - 4/1/2025	4.88E-03	4.72E-04	5.63E-03	4.88E-04	6.69E-03	5.42E-04
4/1/2025 - 4/8/2025	1.36E-02	7.44E-04	1.22E-02	6.99E-04	1.18E-02	6.77E-04
4/8/2025 - 4/15/2025	7.85E-03	5.90E-04	8.25E-03	6.06E-04	7.98E-03	5.77E-04
4/15/2025 - 4/22/2025	9.70E-03	6.57E-04	7.82E-03	6.06E-04	1.05E-02	6.61E-04
4/22/2025 - 4/29/2025	1.47E-02	7.68E-04	1.51E-02	7.68E-04	1.69E-02	8.05E-04
4/29/2025 - 5/6/2025	1.01E-02	6.59E-04	1.38E-02	7.38E-04	1.35E-02	7.31E-04
5/6/2025 - 5/13/2025	1.16E-02	7.27E-04	9.96E-03	6.72E-04	1.04E-02	6.71E-04
5/13/2025 - 5/20/2025	4.68E-03	4.91E-04	3.74E-03	4.48E-04	5.51E-03	5.12E-04
5/20/2025 - 5/27/2025	1.25E-02	7.32E-04	1.37E-02	7.64E-04	1.26E-02	7.22E-04
5/27/2025 - 6/3/2025	1.26E-02	7.35E-04	1.15E-02	6.90E-04	1.16E-02	6.94E-04
6/3/2025 - 6/10/2025	1.16E-02	7.33E-04	1.26E-02	7.21E-04	1.07E-02	6.91E-04
6/10/2025 - 6/17/2025	1.27E-02	6.95E-04	1.15E-02	6.79E-04	1.65E-02	8.21E-04
6/17/2025 - 6/24/2025	7.22E-03	5.45E-04	8.51E-03	6.02E-04	7.55E-03	5.84E-04
6/24/2025 - 7/1/2025	1.19E-02	6.84E-04	1.08E-02	6.70E-04	8.82E-03	5.87E-04
7/1/2025 - 7/8/2025	1.17E-02	7.04E-04	1.12E-02	7.00E-04	1.31E-02	7.08E-04
7/8/2025 - 7/15/2025	9.04E-03	6.01E-04	9.22E-03	6.18E-04	9.10E-03	6.14E-04
7/15/2025 - 7/22/2025	1.36E-02	7.35E-04	1.40E-02	7.62E-04	9.95E-03	6.25E-04
7/22/2025 - 7/29/2025	1.21E-02	7.08E-04	1.51E-02	8.05E-04	1.52E-02	7.59E-04
7/29/2025 - 8/5/2025	1.48E-02	7.82E-04	1.37E-02	7.10E-04	1.57E-02	7.73E-04
8/5/2025 - 8/12/2025	6.36E-03	5.38E-04	6.44E-03	5.02E-04	8.17E-03	5.74E-04
8/12/2025 - 8/19/2025	8.67E-03	6.05E-04	8.10E-03	5.37E-04	7.03E-03	5.73E-04
8/19/2025 - 8/26/2025	1.89E-02	8.75E-04	2.03E-02	8.37E-04	1.71E-02	8.29E-04
8/26/2025 - 9/2/2025	4.15E-02	1.31E-03	4.11E-02	1.20E-03	2.95E-02	1.09E-03
9/2/2025 - 9/9/2025	3.70E-02	1.23E-03	3.79E-02	1.16E-03	4.16E-02	1.37E-03
9/9/2025 - 9/16/2025	1.52E-02	7.98E-04	1.84E-02	8.10E-04	1.39E-02	7.35E-04
9/16/2025 - 9/23/2025	1.41E-02	7.57E-04	2.15E-02	8.60E-04	1.96E-02	8.01E-04
9/23/2025 - 9/30/2025	2.16E-02	9.24E-04	1.84E-02	7.86E-04	1.83E-02	8.28E-04
9/30/2025 - 10/7/2025	1.05E-02	6.86E-04	1.15E-02	6.69E-04	1.09E-02	6.60E-04
10/7/2025 - 10/14/2025	1.98E-02	8.95E-04	1.88E-02	8.48E-04	1.87E-02	8.56E-04
10/14/2025 - 10/21/2025	1.30E-02	7.07E-04	1.56E-02	7.69E-04	1.63E-02	7.93E-04
10/21/2025 - 10/28/2025	1.03E-02	6.39E-04	1.17E-02	6.61E-04	1.20E-02	6.86E-04
10/28/2025 - 11/4/2025	1.08E-02	6.53E-04	1.13E-02	6.62E-04	1.43E-02	7.07E-04
11/4/2025 - 11/11/2025	1.27E-02	7.18E-04	1.36E-02	7.26E-04	1.44E-02	7.23E-04
11/11/2025 - 11/18/2025	2.10E-02	8.99E-04	2.35E-02	9.28E-04	2.18E-02	8.71E-04
11/18/2025 - 11/24/2025	1.19E-02	7.39E-04	1.73E-02	9.48E-04	1.58E-02	8.20E-04
11/24/2025 - 12/2/2025	2.35E-02	8.76E-04	2.03E-02	8.08E-04	2.02E-02	7.53E-04
12/2/2025 - 12/9/2025	1.60E-02	7.75E-04	1.71E-02	7.69E-04	1.81E-02	8.31E-04
12/9/2025 - 12/16/2025	6.83E-03	5.47E-04	6.58E-03	4.87E-04	5.55E-03	5.28E-04
12/16/2025 - 12/22/2025	3.60E-03	4.82E-04	4.65E-03	5.18E-04	2.59E-03	4.37E-04
12/22/2025 - 12/30/2025	1.23E-02	6.41E-04	1.06E-02	5.86E-04	1.16E-02	6.58E-04

Average MDA for analyses in Table A-2.1 was 9.01E-04.

NVS = Valid sample not obtained due to sampler failure or maintenance outage.

*Collection Period for ST-23: 11/25/2025 - 12/2/2025.

TABLE A-2.2

GROSS BETA ON AIR PARTICULATE FILTERS - SUMMARY

Results in pCi/cubic meter

LOCATION	Average Activity	Activity Low	Activity High	Number of Samples	Number of Positive IDs
Gross Beta Indicators	1.47E-02	2.59E-03	4.98E-02	567	567
Gross Beta Controls	1.47E-02	3.42E-03	3.99E-02	52	52

TABLE A-3.1

GAMMA SPECTROMETRY RESULTS OF QUARTERLY AIR PARTICULATE FILTERS

Results in pCi/cubic meter, results decay corrected for decay during sample collection period

Location and Quarter				Station 1	1st Q 2025
Nuclide	RQ	Activity		Error	MDA
BALA140		-1.91E-02	±	5.34E-02	7.19E-02
BE-7	+	5.84E-02	±	1.29E-02	1.02E-02
CO-60		-3.59E-04	±	8.40E-04	1.13E-03
CS-134		-4.02E-04	±	7.24E-04	9.90E-04
CS-137		3.06E-04	±	5.08E-04	7.05E-04
FE-59		1.69E-03	±	2.90E-03	4.01E-03
K-40		3.69E-03	±	9.39E-03	1.32E-02
MN-54		-4.23E-04	±	7.38E-04	9.92E-04
RU-106		-1.44E-03	±	5.78E-03	8.24E-03
ZN-65		-6.02E-05	±	1.39E-03	1.99E-03
ZRNB-95		-1.35E-03	±	2.62E-03	3.62E-03

Location and Quarter				Station 1	2nd Q 2025
Nuclide	RQ	Activity		Error	MDA
BALA140		4.39E-03	±	1.18E-02	1.69E-02
BE-7	+	1.15E-01	±	1.56E-02	8.19E-03
CO-60		-3.93E-05	±	7.86E-04	1.12E-03
CS-134		-2.80E-04	±	6.40E-04	8.90E-04
CS-137		-6.67E-05	±	6.39E-04	9.27E-04
FE-59		1.14E-04	±	3.93E-03	5.65E-03
K-40		3.71E-03	±	6.75E-03	1.05E-02
MN-54		-2.68E-04	±	7.94E-04	1.09E-03
RU-106		2.15E-03	±	4.55E-03	6.45E-03
ZN-65		-1.16E-03	±	2.13E-03	2.79E-03
ZRNB-95		-7.56E-04	±	2.16E-03	3.05E-03

Location and Quarter				Station 1	3rd Q 2025
Nuclide	RQ	Activity		Error	MDA
BALA140		-2.00E-02	±	3.59E-02	4.53E-02
BE-7	+	1.45E-01	±	2.21E-02	1.66E-02
CO-60		-1.78E-04	±	8.31E-04	1.15E-03
CS-134		-5.49E-04	±	9.41E-04	1.28E-03
CS-137		1.21E-04	±	6.34E-04	9.28E-04
FE-59		-1.74E-03	±	4.86E-03	6.54E-03
K-40		1.85E-03	±	7.78E-03	1.16E-02
MN-54		2.52E-04	±	4.93E-04	6.96E-04
RU-106		-2.20E-03	±	6.84E-03	9.72E-03
ZN-65		-5.79E-04	±	1.82E-03	2.51E-03
ZRNB-95		8.73E-04	±	1.68E-03	2.34E-03

Location and Quarter				Station 1	4th Q 2025
Nuclide	RQ	Activity		Error	MDA
BALA140		-6.93E-04	±	1.27E-02	1.80E-02
BE-7	+	5.02E-02	±	1.52E-02	1.55E-02
CO-60		-3.92E-04	±	9.46E-04	1.25E-03
CS-134		-9.73E-05	±	6.36E-04	9.16E-04
CS-137		-2.73E-04	±	7.55E-04	1.07E-03
FE-59		5.33E-04	±	3.16E-03	4.51E-03
K-40		-5.29E-03	±	1.38E-02	1.88E-02
MN-54		4.20E-04	±	7.15E-04	9.68E-04
RU-106		0.00E+00	±	2.75E-03	1.15E-02
ZN-65		-1.89E-04	±	1.66E-03	2.35E-03
ZRNB-95		-4.92E-04	±	1.93E-03	2.71E-03

Location and Quarter				Station 4	1st Q 2025
Nuclide	RQ	Activity		Error	MDA
BALA140		3.23E-03	±	4.23E-02	6.14E-02
BE-7	+	6.42E-02	±	1.28E-02	8.57E-03
CO-60		9.16E-05	±	6.58E-04	9.35E-04
CS-134		-2.11E-04	±	6.41E-04	8.96E-04
CS-137		1.24E-04	±	5.47E-04	7.89E-04
FE-59		1.43E-03	±	3.78E-03	5.33E-03
K-40		7.21E-04	±	1.04E-02	1.48E-02
MN-54		3.43E-04	±	4.18E-04	5.53E-04
RU-106		2.74E-03	±	5.32E-03	7.42E-03
ZN-65		-1.62E-04	±	1.42E-03	2.01E-03
ZRNB-95		-2.48E-04	±	2.30E-03	3.34E-03

Location and Quarter				Station 4	2nd Q 2025
Nuclide	RQ	Activity		Error	MDA
BALA140		3.37E-03	±	1.11E-02	1.62E-02
BE-7	+	1.03E-01	±	1.41E-02	6.75E-03
CO-60		7.36E-05	±	5.61E-04	8.25E-04
CS-134		-8.02E-05	±	5.72E-04	8.20E-04
CS-137		1.91E-04	±	5.71E-04	8.14E-04
FE-59		8.69E-04	±	2.82E-03	4.04E-03
K-40		9.82E-04	±	1.02E-02	1.45E-02
MN-54		-2.26E-05	±	6.94E-04	9.89E-04
RU-106		-3.41E-03	±	6.25E-03	8.62E-03
ZN-65		2.37E-04	±	1.40E-03	1.96E-03
ZRNB-95		6.83E-04	±	1.21E-03	1.72E-03

Location and Quarter				Station 4	3rd Q 2025
Nuclide	RQ	Activity		Error	MDA
BALA140		8.95E-03	±	1.53E-02	2.07E-02
BE-7	+	1.17E-01	±	1.58E-02	8.14E-03
CO-60		-2.82E-05	±	5.58E-04	8.49E-04
CS-134		-3.03E-04	±	6.10E-04	8.45E-04
CS-137		-9.82E-05	±	6.10E-04	8.81E-04
FE-59		5.93E-05	±	2.91E-03	4.41E-03
K-40		9.51E-03	±	8.38E-03	1.14E-02
MN-54		-4.89E-04	±	8.48E-04	1.13E-03
RU-106		-2.84E-04	±	5.69E-03	8.30E-03
ZN-65		-1.03E-04	±	1.60E-03	2.25E-03
ZRNB-95		3.32E-04	±	1.40E-03	2.09E-03

Location and Quarter				Station 4	4th Q 2025
Nuclide	RQ	Activity		Error	MDA
BALA140		-5.11E-03	±	1.94E-02	2.54E-02
BE-7	+	3.78E-02	±	1.37E-02	1.52E-02
CO-60		2.19E-04	±	5.26E-04	7.43E-04
CS-134		-1.02E-04	±	6.68E-04	9.63E-04
CS-137		-4.50E-04	±	9.18E-04	1.27E-03
FE-59		-1.87E-03	±	5.31E-03	7.01E-03
K-40		4.89E-03	±	5.20E-03	7.90E-03
MN-54		8.58E-05	±	7.69E-04	1.10E-03
RU-106		0.00E+00	±	3.01E-03	1.12E-02
ZN-65		-3.23E-04	±	1.76E-03	2.47E-03
ZRNB-95		-9.86E-05	±	1.62E-03	2.39E-03

RQ = Results Qualifier. If blank, result is less than detection limit. If "+", result is above detection limit.

1st Q 12/30/24 to 4/1/25 - 2nd Q 4/1/25 to 7/1/25 - 3rd Q 7/1/25 to 9/30/25 - 4th Q 9/30/25 to 12/30/25

TABLE A-3.1

GAMMA SPECTROMETRY RESULTS OF QUARTERLY AIR PARTICULATE FILTERS

Results in pCi/cubic meter, results decay corrected for decay during sample collection period

Location and Quarter		Station 5		1st Q 2025	
Nuclide	**RQ**	**Activity**		**Error**	**MDA**
BALA140		3.15E-03	±	4.13E-02	5.99E-02
BE-7	+	6.72E-02	±	1.27E-02	8.14E-03
CO-60		2.71E-04	±	2.78E-04	3.89E-04
CS-134		-1.28E-04	±	5.54E-04	7.87E-04
CS-137		3.01E-05	±	5.22E-04	7.68E-04
FE-59		-6.28E-04	±	3.53E-03	5.19E-03
K-40		4.86E-03	±	8.69E-03	1.22E-02
MN-54		1.26E-04	±	4.39E-04	6.36E-04
RU-106		-2.82E-03	±	6.46E-03	8.98E-03
ZN-65		-6.89E-04	±	1.61E-03	2.16E-03
ZRNB-95		9.23E-04	±	1.62E-03	2.28E-03

Location and Quarter		Station 5		2nd Q 2025	
Nuclide	**RQ**	**Activity**		**Error**	**MDA**
BALA140		-3.08E-03	±	1.51E-02	2.13E-02
BE-7	+	1.17E-01	±	1.51E-02	6.98E-03
CO-60		4.36E-04	±	3.40E-04	9.24E-04
CS-134		-1.33E-04	±	5.75E-04	8.17E-04
CS-137		-3.18E-05	±	5.74E-04	8.41E-04
FE-59		-5.42E-05	±	3.25E-03	4.77E-03
K-40		1.23E-02	±	6.77E-03	1.39E-02
MN-54		-7.50E-06	±	5.98E-04	8.67E-04
RU-106		-2.51E-03	±	5.80E-03	8.12E-03
ZN-65		-3.15E-04	±	1.23E-03	1.73E-03
ZRNB-95		-7.21E-04	±	1.75E-03	2.48E-03

Location and Quarter		Station 5		3rd Q 2025	
Nuclide	**RQ**	**Activity**		**Error**	**MDA**
BALA140		-3.65E-03	±	2.55E-02	3.55E-02
BE-7	+	1.29E-01	±	2.26E-02	1.86E-02
CO-60		2.53E-04	±	7.35E-04	1.01E-03
CS-134		-3.20E-04	±	8.66E-04	1.21E-03
CS-137		-1.69E-04	±	6.54E-04	9.50E-04
FE-59		-1.14E-03	±	6.36E-03	8.57E-03
K-40		2.55E-03	±	9.55E-03	1.37E-02
MN-54		-5.04E-04	±	1.08E-03	1.46E-03
RU-106		-2.31E-03	±	7.67E-03	1.09E-02
ZN-65		-7.40E-04	±	1.93E-03	2.63E-03
ZRNB-95		1.00E-03	±	2.21E-03	3.06E-03

Location and Quarter		Station 5		4th Q 2025	
Nuclide	**RQ**	**Activity**		**Error**	**MDA**
BALA140		1.67E-03	±	1.33E-02	1.85E-02
BE-7	+	3.97E-02	±	1.42E-02	1.66E-02
CO-60		2.76E-04	±	5.28E-04	7.24E-04
CS-134		1.33E-04	±	6.22E-04	8.95E-04
CS-137		1.60E-04	±	6.63E-04	9.60E-04
FE-59		1.52E-03	±	2.60E-03	3.51E-03
K-40		3.15E-03	±	6.50E-03	9.83E-03
MN-54		3.25E-04	±	7.19E-04	9.92E-04
RU-106		1.43E-03	±	5.51E-03	8.01E-03
ZN-65		5.81E-04	±	1.54E-03	2.13E-03
ZRNB-95		7.69E-04	±	1.48E-03	2.06E-03

Location and Quarter		Station 6		1st Q 2025	
Nuclide	**RQ**	**Activity**		**Error**	**MDA**
BALA140		1.81E-02	±	3.46E-02	4.74E-02
BE-7	+	5.44E-02	±	1.16E-02	7.53E-03
CO-60		1.33E-04	±	4.31E-04	6.52E-04
CS-134		-1.60E-04	±	6.44E-04	9.06E-04
CS-137		1.56E-04	±	4.87E-04	7.03E-04
FE-59		-1.31E-03	±	5.19E-03	7.22E-03
K-40		5.34E-03	±	8.33E-03	1.18E-02
MN-54		-2.16E-04	±	7.32E-04	1.01E-03
RU-106		-3.62E-03	±	6.70E-03	9.23E-03
ZN-65		-6.55E-04	±	1.81E-03	2.43E-03
ZRNB-95		5.03E-04	±	1.94E-03	2.83E-03

Location and Quarter		Station 6		2nd Q 2025	
Nuclide	**RQ**	**Activity**		**Error**	**MDA**
BALA140		-4.76E-03	±	2.11E-02	2.85E-02
BE-7	+	1.18E-01	±	1.65E-02	1.14E-02
CO-60		2.33E-04	±	2.73E-04	4.07E-04
CS-134		7.95E-05	±	4.07E-04	5.96E-04
CS-137		-1.67E-04	±	5.34E-04	7.65E-04
FE-59		4.32E-04	±	1.98E-03	3.05E-03
K-40		4.22E-03	±	7.45E-03	1.10E-02
MN-54		-3.73E-05	±	5.47E-04	7.97E-04
RU-106		-1.43E-03	±	6.34E-03	9.00E-03
ZN-65		-3.92E-04	±	1.56E-03	2.15E-03
ZRNB-95		8.20E-04	±	1.51E-03	2.13E-03

Location and Quarter		Station 6		3rd Q 2025	
Nuclide	**RQ**	**Activity**		**Error**	**MDA**
BALA140		0.00E+00	±	3.59E-03	1.32E-02
BE-7	+	1.67E-01	±	1.91E-02	9.28E-03
CO-60		-1.11E-04	±	6.75E-04	9.85E-04
CS-134		5.51E-05	±	4.52E-04	6.63E-04
CS-137		3.27E-04	±	4.79E-04	6.60E-04
FE-59		6.53E-04	±	3.03E-03	4.41E-03
K-40	+	1.63E-02	±	7.50E-03	9.10E-03
MN-54		2.68E-04	±	4.84E-04	6.69E-04
RU-106		8.96E-04	±	5.95E-03	8.56E-03
ZN-65		3.49E-04	±	1.47E-03	2.04E-03
ZRNB-95		2.22E-04	±	1.54E-03	2.30E-03

Location and Quarter		Station 6		4th Q 2025	
Nuclide	**RQ**	**Activity**		**Error**	**MDA**
BALA140		6.57E-03	±	1.11E-02	1.46E-02
BE-7	+	4.59E-02	±	1.66E-02	1.74E-02
CO-60		-5.17E-04	±	1.12E-03	1.45E-03
CS-134		0.00E+00	±	4.24E-04	1.16E-03
CS-137		-4.11E-05	±	8.11E-04	1.18E-03
FE-59		1.82E-03	±	3.58E-03	4.78E-03
K-40		1.89E-03	±	7.95E-03	1.19E-02
MN-54		0.00E+00	±	3.58E-04	1.02E-03
RU-106		2.76E-03	±	7.23E-03	1.02E-02
ZN-65		3.49E-04	±	1.55E-03	2.20E-03
ZRNB-95		8.68E-04	±	1.74E-03	2.40E-03

RQ = Results Qualifier. If blank, result is less than detection limit. If "+", result is above detection limit.

1st Q 12/30/24 to 4/1/25 - 2nd Q 4/1/25 to 7/1/25 - 3rd Q 7/1/25 to 9/30/25 - 4th Q 9/30/25 to 12/30/25

TABLE A-3.1

GAMMA SPECTROMETRY RESULTS OF QUARTERLY AIR PARTICULATE FILTERS

Results in pCi/cubic meter, results decay corrected for decay during sample collection period

Location and Quarter		Station 7		1st Q 2025	
Nuclide	**RQ**	**Activity**		**Error**	**MDA**
BALA140		-3.22E-02	±	7.88E-02	1.03E-01
BE-7	+	6.31E-02	±	1.42E-02	1.14E-02
CO-60		-7.65E-06	±	6.99E-04	1.02E-03
CS-134		-5.74E-05	±	4.70E-04	6.90E-04
CS-137		2.44E-04	±	5.46E-04	7.73E-04
FE-59		-4.73E-04	±	4.79E-03	6.94E-03
K-40		5.84E-03	±	7.12E-03	1.06E-02
MN-54		2.57E-04	±	5.77E-04	8.04E-04
RU-106		1.58E-03	±	5.17E-03	7.44E-03
ZN-65		-5.07E-04	±	1.59E-03	2.19E-03
ZRNB-95		-1.09E-03	±	2.61E-03	3.66E-03

Location and Quarter		Station 7		2nd Q 2025	
Nuclide	**RQ**	**Activity**		**Error**	**MDA**
BALA140		-3.04E-03	±	1.48E-02	2.10E-02
BE-7	+	1.20E-01	±	1.52E-02	7.69E-03
CO-60		-8.60E-05	±	7.32E-04	1.05E-03
CS-134		-1.31E-04	±	5.86E-04	8.30E-04
CS-137		-2.18E-04	±	7.12E-04	1.00E-03
FE-59		1.86E-03	±	1.41E-03	1.96E-03
K-40		2.88E-03	±	8.00E-03	1.18E-02
MN-54		-7.35E-05	±	5.44E-04	7.84E-04
RU-106		2.24E-03	±	4.92E-03	6.92E-03
ZN-65		3.09E-04	±	1.00E-03	1.43E-03
ZRNB-95		1.01E-04	±	1.39E-03	2.10E-03

Location and Quarter		Station 7		3rd Q 2025	
Nuclide	**RQ**	**Activity**		**Error**	**MDA**
BALA140		-1.47E-02	±	3.28E-02	4.24E-02
BE-7	+	1.40E-01	±	2.17E-02	1.53E-02
CO-60		8.04E-05	±	8.59E-04	1.21E-03
CS-134		-7.14E-05	±	6.24E-04	9.12E-04
CS-137		-8.49E-05	±	7.57E-04	1.10E-03
FE-59		1.99E-03	±	5.15E-03	6.91E-03
K-40		3.03E-03	±	9.66E-03	1.38E-02
MN-54		-1.62E-04	±	8.26E-04	1.17E-03
RU-106		3.10E-03	±	6.33E-03	8.91E-03
ZN-65		-7.97E-05	±	1.84E-03	2.64E-03
ZRNB-95		-2.88E-05	±	2.29E-03	3.33E-03

Location and Quarter		Station 7		4th Q 2025	
Nuclide	**RQ**	**Activity**		**Error**	**MDA**
BALA140		-4.49E-03	±	1.44E-02	1.94E-02
BE-7	+	2.63E-02	±	1.50E-02	1.94E-02
CO-60		1.56E-04	±	5.16E-04	7.52E-04
CS-134		-3.45E-04	±	7.89E-04	1.10E-03
CS-137		-3.73E-04	±	9.21E-04	1.29E-03
FE-59		-5.70E-04	±	4.09E-03	5.70E-03
K-40		8.84E-04	±	9.14E-03	1.34E-02
MN-54		9.65E-06	±	6.28E-04	9.35E-04
RU-106		-2.22E-03	±	7.81E-03	1.11E-02
ZN-65		-5.27E-04	±	1.59E-03	2.21E-03
ZRNB-95		-6.99E-04	±	2.37E-03	3.28E-03

Location and Quarter		Station 8		1st Q 2025	
Nuclide	**RQ**	**Activity**		**Error**	**MDA**
BALA140		1.24E-02	±	4.81E-02	6.75E-02
BE-7	+	7.33E-02	±	1.47E-02	1.09E-02
CO-60		1.89E-04	±	5.93E-04	8.43E-04
CS-134		4.14E-04	±	3.62E-04	4.61E-04
CS-137		1.94E-04	±	6.12E-04	8.70E-04
FE-59		4.41E-03	±	3.69E-03	8.04E-03
K-40		9.99E-03	±	6.49E-03	1.41E-02
MN-54		1.04E-04	±	6.99E-04	9.89E-04
RU-106		6.08E-04	±	5.21E-03	7.62E-03
ZN-65		-8.49E-04	±	1.74E-03	2.33E-03
ZRNB-95		-7.87E-04	±	2.06E-03	2.95E-03

Location and Quarter		Station 8		2nd Q 2025	
Nuclide	**RQ**	**Activity**		**Error**	**MDA**
BALA140		-7.40E-03	±	1.61E-02	2.17E-02
BE-7	+	1.13E-01	±	1.54E-02	9.63E-03
CO-60		5.30E-04	±	6.40E-04	8.28E-04
CS-134		-8.05E-05	±	5.50E-04	7.91E-04
CS-137		-1.60E-04	±	5.11E-04	7.36E-04
FE-59		-2.19E-04	±	2.71E-03	4.06E-03
K-40		6.57E-03	±	6.93E-03	1.01E-02
MN-54		2.64E-04	±	5.84E-04	8.06E-04
RU-106		-8.69E-04	±	6.45E-03	9.21E-03
ZN-65		-5.94E-04	±	1.60E-03	2.17E-03
ZRNB-95		3.11E-04	±	1.46E-03	2.15E-03

Location and Quarter		Station 8		3rd Q 2025	
Nuclide	**RQ**	**Activity**		**Error**	**MDA**
BALA140		3.51E-04	±	2.22E-02	3.16E-02
BE-7	+	1.27E-01	±	1.66E-02	8.79E-03
CO-60		2.32E-05	±	5.54E-04	8.28E-04
CS-134		-3.79E-04	±	6.86E-04	9.41E-04
CS-137		-6.38E-05	±	4.30E-04	6.43E-04
FE-59		-6.38E-04	±	3.57E-03	5.10E-03
K-40		3.25E-03	±	7.39E-03	1.11E-02
MN-54		1.52E-04	±	5.73E-04	8.12E-04
RU-106		-2.32E-03	±	5.76E-03	8.09E-03
ZN-65		-8.40E-04	±	1.79E-03	2.38E-03
ZRNB-95		0.00E+00	±	6.62E-04	2.43E-03

Location and Quarter		Station 8		4th Q 2025	
Nuclide	**RQ**	**Activity**		**Error**	**MDA**
BALA140		4.53E-03	±	1.20E-02	1.67E-02
BE-7	+	4.82E-02	±	1.59E-02	1.62E-02
CO-60		2.30E-04	±	6.67E-04	9.20E-04
CS-134		-4.77E-04	±	8.22E-04	1.12E-03
CS-137		-1.92E-04	±	6.85E-04	9.81E-04
FE-59		-6.22E-05	±	3.22E-03	4.73E-03
K-40		8.42E-03	±	7.22E-03	9.46E-03
MN-54		-3.16E-04	±	6.98E-04	9.63E-04
RU-106		-3.46E-03	±	8.37E-03	1.16E-02
ZN-65		0.00E+00	±	2.75E-04	8.68E-04
ZRNB-95		9.66E-04	±	1.71E-03	2.34E-03

RQ = Results Qualifier. If blank, result is less than detection limit. If "+", result is above detection limit.

1st Q 12/30/24 to 4/1/25 - 2nd Q 4/1/25 to 7/1/25 - 3rd Q 7/1/25 to 9/30/25 - 4th Q 9/30/25 to 12/30/25

TABLE A-3.1

GAMMA SPECTROMETRY RESULTS OF QUARTERLY AIR PARTICULATE FILTERS

Results in pCi/cubic meter, results decay corrected for decay during sample collection period

Location and Quarter		Station 9 1st Q 2025			
Nuclide	RQ	Activity		Error	MDA
BALA140		0.00E+00	±	8.71E-03	3.21E-02
BE-7	+	7.18E-02	±	1.48E-02	1.14E-02
CO-60		8.38E-05	±	4.25E-04	6.61E-04
CS-134		-1.35E-04	±	5.36E-04	7.64E-04
CS-137		-1.27E-04	±	5.61E-04	8.09E-04
FE-59		-2.98E-04	±	3.70E-03	5.54E-03
K-40		1.05E-02	±	7.42E-03	1.52E-02
MN-54		1.72E-04	±	4.70E-04	6.71E-04
RU-106		-3.31E-04	±	5.30E-03	7.77E-03
ZN-65		-7.49E-04	±	2.11E-03	2.81E-03
ZRNB-95		6.43E-04	±	1.67E-03	2.42E-03

Location and Quarter		Station 9 2nd Q 2025			
Nuclide	RQ	Activity		Error	MDA
BALA140		-6.48E-03	±	2.26E-02	3.07E-02
BE-7	+	1.31E-01	±	1.65E-02	8.70E-03
CO-60		-1.07E-04	±	6.47E-04	9.44E-04
CS-134		-2.11E-04	±	6.99E-04	9.76E-04
CS-137		-1.88E-04	±	5.63E-04	8.01E-04
FE-59		1.02E-03	±	2.24E-03	3.21E-03
K-40		3.39E-03	±	8.13E-03	1.19E-02
MN-54		1.49E-04	±	5.08E-04	7.24E-04
RU-106		2.86E-04	±	5.17E-03	7.57E-03
ZN-65		-1.39E-03	±	2.27E-03	2.94E-03
ZRNB-95		0.00E+00	±	2.12E-04	2.00E-03

Location and Quarter		Station 9 3rd Q 2025			
Nuclide	RQ	Activity		Error	MDA
BALA140		2.55E-02	±	1.54E-02	3.71E-02
BE-7	+	1.52E-01	±	2.35E-02	1.73E-02
CO-60		-2.15E-04	±	7.35E-04	1.02E-03
CS-134		-5.16E-04	±	8.91E-04	1.22E-03
CS-137		-5.55E-04	±	1.02E-03	1.40E-03
FE-59		1.23E-03	±	5.06E-03	6.95E-03
K-40		1.11E-02	±	6.73E-03	1.48E-02
MN-54		-3.66E-04	±	8.55E-04	1.18E-03
RU-106		-1.70E-03	±	7.22E-03	1.04E-02
ZN-65		3.20E-04	±	1.89E-03	2.66E-03
ZRNB-95		1.01E-03	±	2.24E-03	3.09E-03

Location and Quarter		Station 9 4th Q 2025			
Nuclide	RQ	Activity		Error	MDA
BALA140		1.80E-03	±	1.20E-02	1.77E-02
BE-7	+	5.28E-02	±	1.46E-02	1.36E-02
CO-60		5.12E-05	±	6.71E-04	9.74E-04
CS-134		-2.72E-04	±	7.14E-04	1.00E-03
CS-137		-1.22E-04	±	8.23E-04	1.18E-03
FE-59		-2.64E-04	±	4.21E-03	5.94E-03
K-40		2.33E-03	±	1.13E-02	1.57E-02
MN-54		-1.72E-04	±	8.97E-04	1.26E-03
RU-106		3.63E-03	±	7.43E-03	1.03E-02
ZN-65		2.99E-04	±	1.76E-03	2.48E-03
ZRNB-95		-3.07E-04	±	2.23E-03	3.17E-03

Location and Quarter		Station 21B 1st Q 2025			
Nuclide	RQ	Activity		Error	MDA
BALA140		-1.76E-02	±	4.64E-02	6.36E-02
BE-7	+	6.17E-02	±	1.29E-02	9.79E-03
CO-60		2.64E-04	±	5.69E-04	7.88E-04
CS-134		0.00E+00	±	4.29E-04	8.49E-04
CS-137		6.04E-05	±	4.83E-04	7.12E-04
FE-59		-9.26E-04	±	5.05E-03	7.08E-03
K-40		6.40E-03	±	7.43E-03	1.05E-02
MN-54		1.12E-04	±	5.58E-04	7.97E-04
RU-106		-5.69E-04	±	5.17E-03	7.53E-03
ZN-65		3.18E-04	±	1.03E-03	1.48E-03
ZRNB-95		1.47E-03	±	8.52E-04	1.96E-03

Location and Quarter		Station 21B 2nd Q 2025			
Nuclide	RQ	Activity		Error	MDA
BALA140		-2.03E-03	±	1.79E-02	2.58E-02
BE-7	+	1.16E-01	±	1.57E-02	9.39E-03
CO-60		-4.10E-04	±	8.52E-04	1.14E-03
CS-134		-3.39E-04	±	7.00E-04	9.63E-04
CS-137		-1.24E-04	±	5.15E-04	7.45E-04
FE-59		1.12E-04	±	3.89E-03	5.59E-03
K-40		8.51E-03	±	7.87E-03	1.08E-02
MN-54		-1.55E-04	±	6.06E-04	8.53E-04
RU-106		1.13E-03	±	4.70E-03	6.80E-03
ZN-65		-1.22E-03	±	2.12E-03	2.76E-03
ZRNB-95		-1.05E-04	±	1.70E-03	2.52E-03

Location and Quarter		Station 21B 3rd Q 2025			
Nuclide	RQ	Activity		Error	MDA
BALA140		0.00E+00	±	3.54E-03	1.30E-02
BE-7	+	1.36E-01	±	1.72E-02	9.29E-03
CO-60		-2.93E-04	±	7.83E-04	1.08E-03
CS-134		-1.08E-04	±	6.04E-04	8.60E-04
CS-137		-1.93E-04	±	7.05E-04	9.97E-04
FE-59		-8.16E-04	±	3.01E-03	4.33E-03
K-40		6.00E-03	±	8.62E-03	1.22E-02
MN-54		2.14E-04	±	3.95E-04	5.54E-04
RU-106		1.81E-03	±	4.12E-03	5.90E-03
ZN-65		-6.03E-05	±	1.40E-03	2.00E-03
ZRNB-95		1.09E-04	±	1.50E-03	2.26E-03

Location and Quarter		Station 21B 4th Q 2025			
Nuclide	RQ	Activity		Error	MDA
BALA140		2.46E-03	±	2.09E-02	2.84E-02
BE-7	+	5.30E-02	±	1.37E-02	1.22E-02
CO-60		-1.31E-05	±	6.77E-04	9.95E-04
CS-134		-5.00E-04	±	8.62E-04	1.18E-03
CS-137		1.25E-04	±	5.66E-04	8.37E-04
FE-59		1.14E-03	±	2.75E-03	3.89E-03
K-40		8.20E-03	±	6.02E-03	1.44E-02
MN-54		3.50E-04	±	6.08E-04	8.37E-04
RU-106		-2.24E-03	±	6.17E-03	8.81E-03
ZN-65		0.00E+00	±	2.99E-04	9.39E-04
ZRNB-95		-2.61E-05	±	2.08E-03	3.02E-03

RQ = Results Qualifier. If blank, result is less than detection limit. If "+", result is above detection limit.

1st Q 12/30/24 to 4/1/25 - 2nd Q 4/1/25 to 7/1/25 - 3rd Q 7/1/25 to 9/30/25 - 4th Q 9/30/25 to 12/30/25

TABLE A-3.1

GAMMA SPECTROMETRY RESULTS OF QUARTERLY AIR PARTICULATE FILTERS

Results in pCi/cubic meter, results decay corrected for decay during sample collection period

Location and Quarter		Station 23		1st Q 2025	
Nuclide	**RQ**	**Activity**		**Error**	**MDA**
BALA140		-1.11E-02	±	5.42E-02	7.68E-02
BE-7	+	5.94E-02	±	1.33E-02	1.10E-02
CO-60		2.12E-04	±	5.54E-04	7.77E-04
CS-134		-2.02E-04	±	7.07E-04	1.21E-03
CS-137		-2.38E-04	±	7.31E-04	1.02E-03
FE-59		7.02E-04	±	7.43E-04	2.74E-03
K-40		9.17E-04	±	9.49E-03	1.36E-02
MN-54		1.93E-04	±	5.11E-04	7.19E-04
RU-106		8.47E-04	±	4.55E-03	6.65E-03
ZN-65		-6.92E-04	±	1.61E-03	2.17E-03
ZRNB-95		6.30E-04	±	1.97E-03	2.83E-03

Location and Quarter		Station 23		2nd Q 2025	
Nuclide	**RQ**	**Activity**		**Error**	**MDA**
BALA140		-8.28E-03	±	2.31E-02	3.11E-02
BE-7	+	1.19E-01	±	1.56E-02	7.97E-03
CO-60		2.84E-06	±	3.99E-04	6.49E-04
CS-134		0.00E+00	±	3.08E-04	7.44E-04
CS-137		2.28E-04	±	5.55E-04	7.84E-04
FE-59		1.14E-03	±	2.27E-03	3.21E-03
K-40		6.92E-03	±	6.85E-03	9.88E-03
MN-54		-2.53E-04	±	7.52E-04	1.03E-03
RU-106		-5.71E-04	±	5.09E-03	7.42E-03
ZN-65		2.74E-04	±	1.22E-03	1.72E-03
ZRNB-95		-3.18E-04	±	1.86E-03	2.71E-03

Location and Quarter		Station 23		3rd Q 2025	
Nuclide	**RQ**	**Activity**		**Error**	**MDA**
BALA140		-5.49E-03	±	3.13E-02	4.22E-02
BE-7	+	1.35E-01	±	2.30E-02	1.86E-02
CO-60		2.65E-05	±	4.90E-04	7.65E-04
CS-134		-1.76E-04	±	7.31E-04	1.04E-03
CS-137		4.25E-04	±	7.72E-04	1.07E-03
FE-59		-9.11E-04	±	5.66E-03	7.74E-03
K-40		5.54E-03	±	8.67E-03	1.21E-02
MN-54		1.10E-04	±	6.67E-04	9.70E-04
RU-106		-1.53E-03	±	6.64E-03	9.59E-03
ZN-65		-7.88E-05	±	1.82E-03	2.61E-03
ZRNB-95		-9.40E-04	±	2.72E-03	3.74E-03

Location and Quarter		Station 23		4th Q 2025	
Nuclide	**RQ**	**Activity**		**Error**	**MDA**
BALA140		-2.30E-02	±	4.66E-02	5.88E-02
BE-7	+	7.10E-02	±	2.14E-02	2.02E-02
CO-60		1.52E-04	±	8.31E-04	1.25E-03
CS-134		-5.18E-04	±	1.16E-03	1.62E-03
CS-137		4.82E-04	±	1.19E-03	1.69E-03
FE-59		1.12E-04	±	7.07E-03	1.01E-02
K-40		1.37E-03	±	1.71E-02	2.45E-02
MN-54		3.23E-05	±	9.16E-04	1.39E-03
RU-106		6.20E-04	±	1.08E-02	1.58E-02
ZN-65		-4.22E-05	±	2.53E-03	3.71E-03
ZRNB-95		-2.16E-03	±	4.65E-03	6.29E-03

Location and Quarter		Station 40		1st Q 2025	
Nuclide	**RQ**	**Activity**		**Error**	**MDA**
BALA140		4.11E-03	±	5.38E-02	7.81E-02
BE-7	+	6.14E-02	±	1.22E-02	6.42E-03
CO-60		2.64E-04	±	5.69E-04	7.87E-04
CS-134		2.59E-05	±	5.01E-04	7.30E-04
CS-137		1.90E-04	±	4.25E-04	6.08E-04
FE-59		5.28E-04	±	5.28E-03	7.50E-03
K-40		6.20E-03	±	6.53E-03	9.51E-03
MN-54		-8.27E-05	±	6.09E-04	8.69E-04
RU-106		5.72E-04	±	5.75E-03	8.31E-03
ZN-65		-1.00E-04	±	1.56E-03	2.20E-03
ZRNB-95		-1.02E-03	±	2.45E-03	3.44E-03

Location and Quarter		Station 40		2nd Q 2025	
Nuclide	**RQ**	**Activity**		**Error**	**MDA**
BALA140		-6.80E-03	±	2.37E-02	3.23E-02
BE-7	+	1.15E-01	±	1.52E-02	6.50E-03
CO-60		-3.98E-04	±	8.03E-04	1.09E-03
CS-134		-8.17E-05	±	6.29E-04	8.97E-04
CS-137		3.11E-04	±	6.65E-04	9.27E-04
FE-59		1.24E-03	±	3.11E-03	4.37E-03
K-40		6.45E-03	±	5.91E-03	8.99E-03
MN-54		-2.39E-04	±	6.43E-04	8.91E-04
RU-106		-1.77E-03	±	5.69E-03	8.08E-03
ZN-65		1.01E-04	±	1.58E-03	2.22E-03
ZRNB-95		0.00E+00	±	7.24E-04	2.07E-03

Location and Quarter		Station 40		3rd Q 2025	
Nuclide	**RQ**	**Activity**		**Error**	**MDA**
BALA140		7.90E-03	±	1.51E-02	2.07E-02
BE-7	+	1.23E-01	±	1.62E-02	8.27E-03
CO-60		1.33E-05	±	7.73E-04	1.09E-03
CS-134		-1.91E-04	±	6.82E-04	9.56E-04
CS-137		1.62E-04	±	6.00E-04	8.59E-04
FE-59		-5.90E-05	±	3.54E-03	5.19E-03
K-40		9.22E-03	±	7.40E-03	1.02E-02
MN-54		1.62E-04	±	5.27E-04	7.49E-04
RU-106		-1.48E-03	±	6.22E-03	8.85E-03
ZN-65		-6.10E-04	±	1.65E-03	2.23E-03
ZRNB-95		-5.50E-04	±	1.96E-03	2.81E-03

Location and Quarter		Station 40		4th Q 2025	
Nuclide	**RQ**	**Activity**		**Error**	**MDA**
BALA140		1.43E-02	±	1.53E-02	1.84E-02
BE-7	+	5.06E-02	±	1.33E-02	1.14E-02
CO-60		3.26E-04	±	5.63E-04	7.60E-04
CS-134		-4.54E-04	±	8.37E-04	1.15E-03
CS-137		0.00E+00	±	0.00E+00	1.28E-03
FE-59		6.11E-04	±	3.62E-03	5.16E-03
K-40		-1.77E-03	±	1.00E-02	1.49E-02
MN-54		-2.85E-04	±	9.87E-04	1.36E-03
RU-106		3.76E-04	±	6.12E-03	9.06E-03
ZN-65		-6.41E-04	±	2.06E-03	2.81E-03
ZRNB-95		5.26E-05	±	2.42E-03	3.46E-03

RQ = Results Qualifier. If blank, result is less than detection limit. If "+", result is above detection limit.

1st Q 12/30/24 to 4/1/25 - 2nd Q 4/1/25 to 7/1/25 - 3rd Q 7/1/25 to 9/30/25 - 4th Q 9/30/25 to 12/30/25

TABLE A-3.1

GAMMA SPECTROMETRY RESULTS OF QUARTERLY AIR PARTICULATE FILTERS

Results in pCi/cubic meter, results decay corrected for decay during sample collection period

Location and Quarter		Station 48 1st Q 2025			
Nuclide	**RQ**	**Activity**		**Error**	**MDA**
BALA140		0.00E+00	±	1.46E-02	3.79E-02
BE-7	+	7.18E-02	±	1.47E-02	1.06E-02
CO-60		9.92E-05	±	4.10E-04	6.30E-04
CS-134		-3.65E-04	±	6.60E-04	9.05E-04
CS-137		2.90E-04	±	6.11E-04	8.52E-04
FE-59		8.30E-04	±	3.85E-03	5.61E-03
K-40		-4.33E-04	±	9.47E-03	1.37E-02
MN-54		1.05E-04	±	6.11E-04	8.69E-04
RU-106		-5.72E-04	±	5.10E-03	7.44E-03
ZN-65		-6.01E-05	±	1.39E-03	1.99E-03
ZRNB-95		6.39E-04	±	1.24E-03	1.80E-03

Location and Quarter		Station 48 2nd Q 2025			
Nuclide	**RQ**	**Activity**		**Error**	**MDA**
BALA140		-1.47E-03	±	2.35E-02	3.32E-02
BE-7	+	1.04E-01	±	1.50E-02	8.92E-03
CO-60		-7.85E-05	±	5.41E-04	8.31E-04
CS-134		2.43E-04	±	4.93E-04	6.90E-04
CS-137		1.92E-04	±	5.52E-04	7.87E-04
FE-59		1.65E-03	±	2.46E-03	3.33E-03
K-40		7.30E-03	±	7.95E-03	1.12E-02
MN-54		-2.52E-04	±	7.30E-04	1.01E-03
RU-106		-2.34E-03	±	6.15E-03	8.63E-03
ZN-65		-4.63E-04	±	1.45E-03	2.00E-03
ZRNB-95		-1.09E-04	±	1.51E-03	2.27E-03

Location and Quarter		Station 48 3rd Q 2025			
Nuclide	**RQ**	**Activity**		**Error**	**MDA**
BALA140		-2.00E-02	±	3.59E-02	4.53E-02
BE-7	+	1.33E-01	±	2.05E-02	1.41E-02
CO-60		5.01E-05	±	6.56E-04	9.52E-04
CS-134		-1.67E-04	±	7.76E-04	1.10E-03
CS-137		-4.80E-04	±	9.05E-04	1.25E-03
FE-59		-1.36E-03	±	4.75E-03	6.47E-03
K-40		1.41E-03	±	9.92E-03	1.41E-02
MN-54		2.84E-05	±	8.18E-04	1.17E-03
RU-106		1.09E-03	±	6.11E-03	8.89E-03
ZN-65		3.97E-04	±	1.29E-03	1.85E-03
ZRNB-95		5.39E-04	±	2.03E-03	2.88E-03

Location and Quarter		Station 48 4th Q 2025			
Nuclide	**RQ**	**Activity**		**Error**	**MDA**
BALA140		3.30E-03	±	1.24E-02	1.77E-02
BE-7	+	4.74E-02	±	1.37E-02	1.31E-02
CO-60		5.06E-05	±	6.63E-04	9.63E-04
CS-134		-2.02E-04	±	7.29E-04	1.03E-03
CS-137		-5.10E-04	±	1.03E-03	1.42E-03
FE-59		9.15E-04	±	3.55E-03	4.97E-03
K-40		5.68E-03	±	7.01E-03	9.90E-03
MN-54		9.45E-06	±	6.16E-04	9.16E-04
RU-106		1.45E-03	±	7.02E-03	1.01E-02
ZN-65		2.22E-04	±	1.51E-03	2.17E-03
ZRNB-95		-1.43E-03	±	2.48E-03	3.33E-03

Location and Quarter		Station 57 1st Q 2025			
Nuclide	**RQ**	**Activity**		**Error**	**MDA**
BALA140		-2.14E-02	±	7.39E-02	9.92E-02
BE-7	+	5.92E-02	±	1.31E-02	1.03E-02
CO-60		-6.49E-06	±	5.93E-04	8.61E-04
CS-134		2.19E-04	±	4.92E-04	6.88E-04
CS-137		-2.84E-05	±	4.73E-04	6.99E-04
FE-59		-5.69E-04	±	4.99E-03	7.08E-03
K-40		7.45E-03	±	5.49E-03	7.89E-03
MN-54		-4.22E-04	±	7.33E-04	9.82E-04
RU-106		3.18E-03	±	6.49E-03	8.97E-03
ZN-65		-4.72E-04	±	1.52E-03	2.07E-03
ZRNB-95		1.08E-03	±	1.03E-03	1.30E-03

Location and Quarter		Station 57 2nd Q 2025			
Nuclide	**RQ**	**Activity**		**Error**	**MDA**
BALA140		-8.06E-03	±	2.78E-02	3.74E-02
BE-7	+	1.04E-01	±	1.55E-02	9.85E-03
CO-60		2.35E-04	±	2.74E-04	4.09E-04
CS-134		-8.03E-05	±	5.50E-04	7.89E-04
CS-137		-3.47E-04	±	7.21E-04	9.99E-04
FE-59		4.09E-04	±	4.09E-03	5.82E-03
K-40		1.00E-02	±	7.38E-03	1.00E-02
MN-54		7.59E-05	±	5.62E-04	8.10E-04
RU-106		-2.90E-04	±	5.90E-03	8.56E-03
ZN-65		-5.99E-04	±	1.62E-03	2.19E-03
ZRNB-95		9.77E-04	±	1.32E-03	1.81E-03

Location and Quarter		Station 57 3rd Q 2025			
Nuclide	**RQ**	**Activity**		**Error**	**MDA**
BALA140		-3.11E-03	±	2.24E-02	3.12E-02
BE-7	+	1.08E-01	±	1.53E-02	9.49E-03
CO-60		1.71E-04	±	5.68E-04	8.09E-04
CS-134		1.58E-04	±	4.71E-04	6.71E-04
CS-137		-2.37E-04	±	6.69E-04	9.40E-04
FE-59		-1.70E-03	±	4.60E-03	6.23E-03
K-40		5.63E-03	±	7.55E-03	1.09E-02
MN-54		-1.19E-04	±	6.07E-04	8.60E-04
RU-106		-2.85E-04	±	4.95E-03	7.27E-03
ZN-65		-5.28E-04	±	1.71E-03	2.32E-03
ZRNB-95		-8.46E-04	±	2.13E-03	2.99E-03

Location and Quarter		Station 57 4th Q 2025			
Nuclide	**RQ**	**Activity**		**Error**	**MDA**
BALA140		-1.49E-02	±	3.03E-02	3.80E-02
BE-7	+	5.54E-02	±	1.59E-02	1.59E-02
CO-60		-6.40E-05	±	1.05E-03	1.44E-03
CS-134		-1.70E-04	±	7.35E-04	1.04E-03
CS-137		-1.63E-04	±	7.62E-04	1.10E-03
FE-59		1.26E-03	±	3.65E-03	5.03E-03
K-40		4.31E-04	±	8.92E-03	1.32E-02
MN-54		-1.91E-05	±	8.24E-04	1.18E-03
RU-106		3.63E-03	±	7.65E-03	1.06E-02
ZN-65		-1.25E-04	±	1.94E-03	2.74E-03
ZRNB-95		-7.43E-04	±	2.57E-03	3.55E-03

RQ = Results Qualifier. If blank, result is less than detection limit. If "+", result is above detection limit.

1st Q 12/30/24 to 4/1/25 - 2nd Q 4/1/25 to 7/1/25 - 3rd Q 7/1/25 to 9/30/25 - 4th Q 9/30/25 to 12/30/25

TABLE A-3.2

GAMMA SPECTROMETRY RESULTS OF QUARTERLY AIR PARTICULATE FILTERS - SUMMARY

Results in pCi/cubic meter, corrected for decay during collection period

Nuclide		Average Activity	Activity Low	Activity High	Average MDA	Number of Samples	Number of Positive IDs
BALA140	Ind	-3.70E-03	-3.22E-02	1.81E-02	3.79E-02	44	0
BALA140	Cntl	5.21E-03	-6.48E-03	2.55E-02	2.94E-02	4	0
BE-7	Ind	8.92E-02	2.63E-02	1.67E-01	1.15E-02	44	44
BE-7	Cntl	1.02E-01	5.28E-02	1.52E-01	1.28E-02	4	4
CO-60	Ind	4.73E-05	-5.17E-04	5.30E-04	9.10E-04	44	0
CO-60	Cntl	-4.68E-05	-2.15E-04	8.38E-05	9.01E-04	4	0
CS-134	Ind	-1.48E-04	-5.49E-04	4.14E-04	9.23E-04	44	0
CS-134	Cntl	-2.84E-04	-5.16E-04	-1.35E-04	9.90E-04	4	0
CS-137	Ind	-8.84E-06	-5.10E-04	4.82E-04	9.36E-04	44	0
CS-137	Cntl	-2.48E-04	-5.55E-04	-1.22E-04	1.05E-03	4	0
FE-59	Ind	2.95E-04	-1.87E-03	4.41E-03	5.41E-03	44	0
FE-59	Cntl	4.23E-04	-2.98E-04	1.23E-03	5.41E-03	4	0
K-40	Ind	4.84E-03	-5.29E-03	1.63E-02	1.21E-02	44	1
K-40	Cntl	6.82E-03	2.33E-03	1.11E-02	1.44E-02	4	0
MN-54	Ind	-7.85E-06	-5.04E-04	4.20E-04	9.33E-04	44	0
MN-54	Cntl	-5.43E-05	-3.66E-04	1.72E-04	9.57E-04	4	0
RU-106	Ind	-1.90E-04	-3.62E-03	3.63E-03	8.83E-03	44	0
RU-106	Cntl	4.72E-04	-1.70E-03	3.63E-03	9.01E-03	4	0
ZN-65	Ind	-2.57E-04	-1.22E-03	5.81E-04	2.19E-03	44	0
ZN-65	Cntl	-3.79E-04	-1.39E-03	3.20E-04	2.72E-03	4	0
ZRNB-95	Ind	-1.48E-05	-2.16E-03	1.47E-03	2.73E-03	44	0
ZRNB-95	Cntl	3.37E-04	-3.07E-04	1.01E-03	2.67E-03	4	0

Ind = Indicator Stations Cntl = Control Stations

TABLE A-4.1

GAMMA SPECTROMETRY RESULTS OF IODINE-131 ON CHARCOAL FILTERS

Results in pCi/cubic meter, corrected for decay during collection period

Collection Period		Station 1					Station 4				
		RQ	Activity		Error	MDA	RQ	Activity		Error	MDA
12/30/2024 -	1/7/2025		-6.75E-03	±	1.25E-02	1.83E-02		-6.37E-03	±	1.18E-02	1.73E-02
1/7/2025 -	1/14/2025		2.17E-04	±	1.15E-02	1.78E-02		2.31E-04	±	1.23E-02	1.89E-02
1/14/2025 -	1/21/2025		-1.57E-03	±	1.21E-02	1.83E-02		-1.73E-03	±	1.33E-02	2.01E-02
1/21/2025 -	1/28/2025		9.31E-04	±	1.24E-02	1.87E-02		1.01E-03	±	1.34E-02	2.03E-02
1/28/2025 -	2/4/2025		3.24E-03	±	1.14E-02	1.72E-02		3.54E-03	±	1.24E-02	1.87E-02
2/4/2025 -	2/11/2025		4.28E-04	±	1.33E-02	2.03E-02		4.68E-04	±	1.46E-02	2.22E-02
2/11/2025 -	2/18/2025		4.55E-03	±	1.69E-02	2.43E-02		4.96E-03	±	1.84E-02	2.65E-02
2/18/2025 -	2/25/2025		-6.60E-03	±	1.79E-02	2.66E-02		-5.38E-03	±	1.46E-02	2.17E-02
2/25/2025 -	3/4/2025		-2.37E-03	±	2.09E-02	3.04E-02		-2.32E-03	±	2.04E-02	2.97E-02
3/4/2025 -	3/11/2025		-5.07E-03	±	1.47E-02	2.19E-02		-4.92E-03	±	1.43E-02	2.12E-02
3/11/2025 -	3/18/2025		1.37E-03	±	1.23E-02	1.88E-02		1.36E-03	±	1.21E-02	1.85E-02
3/18/2025 -	3/25/2025		-5.03E-03	±	1.89E-02	2.72E-02		-4.96E-03	±	1.87E-02	2.69E-02
3/25/2025 -	4/1/2025		-4.37E-04	±	1.95E-02	2.86E-02		-4.12E-04	±	1.84E-02	2.70E-02
4/1/2025 -	4/8/2025		7.20E-03	±	1.44E-02	2.06E-02		7.20E-03	±	1.44E-02	2.06E-02
4/8/2025 -	4/15/2025		4.41E-03	±	1.66E-02	2.41E-02		4.30E-03	±	1.62E-02	2.35E-02
4/15/2025 -	4/22/2025		3.10E-03	±	1.42E-02	2.09E-02		3.05E-03	±	1.40E-02	2.06E-02
4/22/2025 -	4/29/2025		-3.11E-03	±	1.74E-02	2.53E-02		-3.08E-03	±	1.72E-02	2.50E-02
4/29/2025 -	5/6/2025		3.40E-03	±	1.31E-02	1.97E-02		3.42E-03	±	1.32E-02	1.98E-02
5/6/2025 -	5/13/2025		1.13E-03	±	3.01E-02	4.76E-02		3.60E-04	±	9.59E-03	1.52E-02
5/13/2025 -	5/20/2025		6.33E-03	±	1.51E-02	2.17E-02		6.44E-03	±	1.53E-02	2.21E-02
5/20/2025 -	5/27/2025		-7.09E-04	±	1.30E-02	1.99E-02		-7.24E-04	±	1.32E-02	2.03E-02
5/27/2025 -	6/3/2025		-6.60E-03	±	1.27E-02	1.86E-02		-6.51E-03	±	1.25E-02	1.84E-02
6/3/2025 -	6/10/2025		-8.09E-03	±	1.54E-02	2.25E-02		-8.23E-03	±	1.57E-02	2.29E-02
6/10/2025 -	6/17/2025		-4.88E-03	±	1.29E-02	1.92E-02		-5.15E-03	±	1.36E-02	2.03E-02
6/17/2025 -	6/24/2025		3.19E-03	±	1.16E-02	1.76E-02		3.22E-03	±	1.17E-02	1.77E-02
6/24/2025 -	7/1/2025		-1.09E-03	±	1.37E-02	2.09E-02		-1.12E-03	±	1.41E-02	2.15E-02
7/1/2025 -	7/8/2025		3.59E-03	±	1.22E-02	1.84E-02		3.84E-03	±	1.31E-02	1.96E-02
7/8/2025 -	7/15/2025		4.84E-03	±	1.20E-02	1.80E-02		4.74E-03	±	1.18E-02	1.77E-02
7/15/2025 -	7/22/2025		-6.46E-03	±	1.53E-02	2.27E-02		-6.78E-03	±	1.61E-02	2.38E-02
7/22/2025 -	7/29/2025		-4.52E-04	±	1.27E-02	1.96E-02		-4.76E-04	±	1.34E-02	2.06E-02
7/29/2025 -	8/5/2025		-8.12E-03	±	1.55E-02	2.26E-02		-8.74E-03	±	1.66E-02	2.43E-02
8/5/2025 -	8/12/2025		-6.04E-03	±	1.18E-02	1.75E-02		-6.72E-03	±	1.32E-02	1.94E-02
8/12/2025 -	8/19/2025		5.15E-03	±	1.13E-02	1.68E-02		5.41E-03	±	1.19E-02	1.77E-02
8/19/2025 -	8/26/2025		-1.87E-03	±	1.11E-02	1.70E-02		-2.10E-03	±	1.25E-02	1.90E-02
8/26/2025 -	9/2/2025		-4.24E-03	±	1.26E-02	1.88E-02		-4.80E-03	±	1.43E-02	2.13E-02
9/2/2025 -	9/9/2025		3.53E-03	±	1.24E-02	1.87E-02		3.69E-03	±	1.30E-02	1.96E-02
9/9/2025 -	9/16/2025		3.43E-03	±	1.28E-02	1.92E-02		3.98E-03	±	1.48E-02	2.22E-02
9/16/2025 -	9/23/2025		3.82E-03	±	1.29E-02	1.92E-02		4.36E-03	±	1.47E-02	2.19E-02
9/23/2025 -	9/30/2025		1.79E-03	±	1.09E-02	1.67E-02		2.05E-03	±	1.24E-02	1.90E-02
9/30/2025 -	10/7/2025		-6.23E-04	±	1.14E-02	1.75E-02		-7.16E-04	±	1.31E-02	2.01E-02
10/7/2025 -	10/14/2025		-8.48E-03	±	1.61E-02	2.34E-02		-8.72E-03	±	1.65E-02	2.41E-02
10/14/2025 -	10/21/2025		3.27E-03	±	1.04E-02	1.57E-02		3.54E-03	±	1.13E-02	1.70E-02
10/21/2025 -	10/28/2025		3.07E-03	±	1.61E-02	2.35E-02		3.03E-03	±	1.59E-02	2.32E-02
10/28/2025 -	11/4/2025		3.93E-03	±	1.48E-02	2.14E-02		4.35E-03	±	1.64E-02	2.37E-02
11/4/2025 -	11/11/2025		2.63E-03	±	1.14E-02	1.72E-02		2.85E-03	±	1.24E-02	1.87E-02
11/11/2025 -	11/18/2025		-9.18E-04	±	1.10E-02	1.67E-02		-9.96E-04	±	1.19E-02	1.81E-02
11/18/2025 -	11/24/2025		1.81E-03	±	1.15E-02	1.74E-02		1.90E-03	±	1.20E-02	1.83E-02
11/24/2025 -	12/2/2025		1.63E-03	±	7.56E-03	1.15E-02		1.83E-03	±	8.53E-03	1.30E-02
12/2/2025 -	12/9/2025		2.95E-03	±	8.96E-03	1.36E-02		2.88E-03	±	8.77E-03	1.33E-02
12/9/2025 -	12/16/2025		-3.00E-04	±	1.06E-02	1.64E-02		-2.91E-04	±	1.03E-02	1.59E-02
12/16/2025 -	12/22/2025		-4.20E-03	±	1.40E-02	2.09E-02		-4.26E-03	±	1.42E-02	2.11E-02
12/22/2025 -	12/30/2025		5.73E-03	±	1.07E-02	1.57E-02		5.70E-03	±	1.06E-02	1.56E-02

*Collection Period for ST-23: 11/25/2025-12/2/2025.

NVS = Valid sample not obtained due to sampler failure.

RQ= Results Qualifer. If blank, result is less than detection limit. If "+", result is above detection limit.

TABLE A-4.1

GAMMA SPECTROMETRY RESULTS OF IODINE-131 ON CHARCOAL FILTERS

Results in pCi/cubic meter, corrected for decay during collection period

Collection Period		Station 5					Station 6				
		RQ	Activity		Error	MDA	RQ	Activity		Error	MDA
12/30/2024 -	1/7/2025		-6.77E-03	±	1.26E-02	1.83E-02		-6.31E-03	±	1.17E-02	1.71E-02
1/7/2025 -	1/14/2025		2.21E-04	±	1.17E-02	1.81E-02		2.25E-04	±	1.20E-02	1.84E-02
1/14/2025 -	1/21/2025		-1.82E-03	±	1.40E-02	2.11E-02		-1.74E-03	±	1.34E-02	2.02E-02
1/21/2025 -	1/28/2025		9.50E-04	±	1.27E-02	1.91E-02		9.79E-04	±	1.30E-02	1.97E-02
1/28/2025 -	2/4/2025		3.31E-03	±	1.16E-02	1.75E-02		3.39E-03	±	1.19E-02	1.79E-02
2/4/2025 -	2/11/2025		4.33E-04	±	1.35E-02	2.06E-02		4.55E-04	±	1.42E-02	2.16E-02
2/11/2025 -	2/18/2025		4.67E-03	±	1.73E-02	2.49E-02		4.78E-03	±	1.77E-02	2.55E-02
2/18/2025 -	2/25/2025		-5.06E-03	±	1.38E-02	2.04E-02		-5.39E-03	±	1.46E-02	2.18E-02
2/25/2025 -	3/4/2025		-2.05E-03	±	1.80E-02	2.62E-02		-2.30E-03	±	2.02E-02	2.94E-02
3/4/2025 -	3/11/2025		-4.98E-03	±	1.45E-02	2.15E-02		-5.35E-03	±	1.55E-02	2.31E-02
3/11/2025 -	3/18/2025		1.36E-03	±	1.21E-02	1.86E-02		1.47E-03	±	1.31E-02	2.01E-02
3/18/2025 -	3/25/2025		-5.08E-03	±	1.91E-02	2.75E-02		-5.40E-03	±	2.03E-02	2.93E-02
3/25/2025 -	4/1/2025		-4.01E-04	±	1.79E-02	2.62E-02		-4.47E-04	±	1.99E-02	2.93E-02
4/1/2025 -	4/8/2025		7.14E-03	±	1.43E-02	2.04E-02		6.93E-03	±	1.38E-02	1.98E-02
4/8/2025 -	4/15/2025		4.25E-03	±	1.60E-02	2.32E-02		4.17E-03	±	1.57E-02	2.28E-02
4/15/2025 -	4/22/2025		3.00E-03	±	1.37E-02	2.02E-02		2.95E-03	±	1.35E-02	1.99E-02
4/22/2025 -	4/29/2025		-2.98E-03	±	1.66E-02	2.42E-02		-2.97E-03	±	1.65E-02	2.41E-02
4/29/2025 -	5/6/2025		3.31E-03	±	1.28E-02	1.92E-02		3.30E-03	±	1.27E-02	1.92E-02
5/6/2025 -	5/13/2025		3.48E-04	±	9.28E-03	1.47E-02		3.44E-04	±	9.16E-03	1.45E-02
5/13/2025 -	5/20/2025		6.21E-03	±	1.48E-02	2.13E-02		6.07E-03	±	1.45E-02	2.08E-02
5/20/2025 -	5/27/2025		-6.92E-04	±	1.27E-02	1.94E-02		-6.91E-04	±	1.26E-02	1.94E-02
5/27/2025 -	6/3/2025		-6.78E-03	±	1.30E-02	1.91E-02		-6.81E-03	±	1.31E-02	1.92E-02
6/3/2025 -	6/10/2025		-8.60E-03	±	1.64E-02	2.39E-02		-8.65E-03	±	1.65E-02	2.41E-02
6/10/2025 -	6/17/2025		-5.27E-03	±	1.39E-02	2.07E-02		-5.35E-03	±	1.41E-02	2.10E-02
6/17/2025 -	6/24/2025		3.34E-03	±	1.22E-02	1.84E-02		3.38E-03	±	1.23E-02	1.86E-02
6/24/2025 -	7/1/2025		-1.15E-03	±	1.45E-02	2.21E-02		-1.16E-03	±	1.46E-02	2.24E-02
7/1/2025 -	7/8/2025		3.99E-03	±	1.36E-02	2.04E-02		3.98E-03	±	1.35E-02	2.04E-02
7/8/2025 -	7/15/2025		4.67E-03	±	1.16E-02	1.74E-02		4.79E-03	±	1.19E-02	1.78E-02
7/15/2025 -	7/22/2025		-6.92E-03	±	1.64E-02	2.43E-02		-6.72E-03	±	1.59E-02	2.35E-02
7/22/2025 -	7/29/2025		-4.90E-04	±	1.38E-02	2.12E-02		-4.79E-04	±	1.35E-02	2.07E-02
7/29/2025 -	8/5/2025		-8.74E-03	±	1.66E-02	2.43E-02		-8.67E-03	±	1.65E-02	2.41E-02
8/5/2025 -	8/12/2025		-6.86E-03	±	1.35E-02	1.98E-02		-6.62E-03	±	1.30E-02	1.91E-02
8/12/2025 -	8/19/2025		5.16E-03	±	1.13E-02	1.68E-02		5.10E-03	±	1.12E-02	1.66E-02
8/19/2025 -	8/26/2025		-1.92E-03	±	1.14E-02	1.74E-02		-2.05E-03	±	1.22E-02	1.86E-02
8/26/2025 -	9/2/2025		-4.48E-03	±	1.33E-02	1.99E-02		-4.78E-03	±	1.42E-02	2.12E-02
9/2/2025 -	9/9/2025		3.52E-03	±	1.24E-02	1.87E-02		3.82E-03	±	1.34E-02	2.03E-02
9/9/2025 -	9/16/2025		3.58E-03	±	1.33E-02	2.00E-02		3.89E-03	±	1.45E-02	2.17E-02
9/16/2025 -	9/23/2025		3.96E-03	±	1.33E-02	1.99E-02		4.31E-03	±	1.45E-02	2.16E-02
9/23/2025 -	9/30/2025		1.89E-03	±	1.15E-02	1.76E-02		2.11E-03	±	1.28E-02	1.96E-02
9/30/2025 -	10/7/2025		-6.74E-04	±	1.23E-02	1.89E-02		-7.09E-04	±	1.30E-02	1.99E-02
10/7/2025 -	10/14/2025		-8.37E-03	±	1.59E-02	2.31E-02		-9.01E-03	±	1.71E-02	2.49E-02
10/14/2025 -	10/21/2025		3.22E-03	±	1.03E-02	1.55E-02		3.56E-03	±	1.14E-02	1.71E-02
10/21/2025 -	10/28/2025		2.88E-03	±	1.51E-02	2.20E-02		3.23E-03	±	1.70E-02	2.47E-02
10/28/2025 -	11/4/2025		4.30E-03	±	1.62E-02	2.34E-02		4.38E-03	±	1.65E-02	2.39E-02
11/4/2025 -	11/11/2025		2.88E-03	±	1.25E-02	1.89E-02		2.83E-03	±	1.23E-02	1.86E-02
11/11/2025 -	11/18/2025		-9.92E-04	±	1.18E-02	1.80E-02		-9.89E-04	±	1.18E-02	1.80E-02
11/18/2025 -	11/24/2025		1.86E-03	±	1.18E-02	1.80E-02		1.84E-03	±	1.17E-02	1.78E-02
11/24/2025 -	12/2/2025		1.86E-03	±	8.67E-03	1.32E-02		1.81E-03	±	8.41E-03	1.28E-02
12/2/2025 -	12/9/2025		2.88E-03	±	8.75E-03	1.32E-02		2.74E-03	±	8.35E-03	1.26E-02
12/9/2025 -	12/16/2025		-2.84E-04	±	1.01E-02	1.55E-02		-2.92E-04	±	1.04E-02	1.60E-02
12/16/2025 -	12/22/2025		-4.22E-03	±	1.41E-02	2.10E-02		-4.41E-03	±	1.47E-02	2.19E-02
12/22/2025 -	12/30/2025		5.49E-03	±	1.02E-02	1.50E-02		5.88E-03	±	1.10E-02	1.61E-02

*Collection Period for ST-23: 11/25/2025-12/2/2025.

NVS = Valid sample not obtained due to sampler failure.

RQ= Results Qualifer. If blank, result is less than detection limit. If "+", result is above detection limit.

TABLE A-4.1

GAMMA SPECTROMETRY RESULTS OF IODINE-131 ON CHARCOAL FILTERS

Results in pCi/cubic meter, corrected for decay during collection period

Collection Period		Station 7					Station 8				
		RQ	Activity		Error	MDA	RQ	Activity		Error	MDA
12/30/2024 -	1/7/2025		1.07E-04	±	1.02E-02	1.59E-02		1.05E-04	±	1.00E-02	1.56E-02
1/7/2025 -	1/14/2025		3.84E-04	±	1.48E-02	2.27E-02		4.07E-04	±	1.57E-02	2.41E-02
1/14/2025 -	1/21/2025		8.85E-03	±	9.74E-03	1.38E-02		1.13E-02	±	1.25E-02	1.76E-02
1/21/2025 -	1/28/2025		1.44E-03	±	1.29E-02	1.96E-02		1.35E-03	±	1.21E-02	1.84E-02
1/28/2025 -	2/4/2025		1.22E-04	±	1.37E-02	2.11E-02		1.22E-04	±	1.37E-02	2.11E-02
2/4/2025 -	2/11/2025		-4.85E-03	±	1.64E-02	2.44E-02		-4.85E-03	±	1.64E-02	2.44E-02
2/11/2025 -	2/18/2025		-1.17E-02	±	5.70E-02	8.28E-02		-3.72E-03	±	1.81E-02	2.63E-02
2/18/2025 -	2/25/2025		5.39E-03	±	1.20E-02	1.78E-02		5.54E-03	±	1.23E-02	1.83E-02
2/25/2025 -	3/4/2025		-1.31E-02	±	2.35E-02	3.31E-02		-1.21E-02	±	2.17E-02	3.05E-02
3/4/2025 -	3/11/2025		3.25E-03	±	1.30E-02	1.97E-02		3.27E-03	±	1.31E-02	1.98E-02
3/11/2025 -	3/18/2025		-4.95E-03	±	1.40E-02	2.09E-02		-5.07E-03	±	1.44E-02	2.14E-02
3/18/2025 -	3/25/2025		-8.32E-03	±	1.95E-02	2.76E-02		-8.91E-03	±	2.08E-02	2.96E-02
3/25/2025 -	4/1/2025		2.93E-03	±	1.64E-02	2.41E-02		2.84E-03	±	1.59E-02	2.34E-02
4/1/2025 -	4/8/2025		-8.25E-03	±	1.75E-02	2.48E-02		-8.43E-03	±	1.78E-02	2.54E-02
4/8/2025 -	4/15/2025		4.31E-04	±	1.97E-02	2.88E-02		4.51E-04	±	2.06E-02	3.01E-02
4/15/2025 -	4/22/2025		7.82E-03	±	1.43E-02	2.04E-02		8.10E-03	±	1.48E-02	2.12E-02
4/22/2025 -	4/29/2025		-7.46E-03	±	1.91E-02	2.72E-02		-7.81E-03	±	2.00E-02	2.85E-02
4/29/2025 -	5/6/2025		4.15E-03	±	1.26E-02	1.89E-02		4.38E-03	±	1.32E-02	1.99E-02
5/6/2025 -	5/13/2025		1.14E-03	±	1.18E-02	1.81E-02		1.22E-03	±	1.27E-02	1.95E-02
5/13/2025 -	5/20/2025		1.26E-03	±	1.51E-02	2.24E-02		1.28E-03	±	1.53E-02	2.28E-02
5/20/2025 -	5/27/2025		4.61E-03	±	1.02E-02	1.53E-02		4.85E-03	±	1.07E-02	1.61E-02
5/27/2025 -	6/3/2025		3.50E-03	±	1.35E-02	2.03E-02		3.83E-03	±	1.48E-02	2.22E-02
6/3/2025 -	6/10/2025		3.28E-03	±	1.38E-02	2.08E-02		3.24E-03	±	1.36E-02	2.05E-02
6/10/2025 -	6/17/2025		4.22E-03	±	1.16E-02	1.75E-02		4.09E-03	±	1.13E-02	1.69E-02
6/17/2025 -	6/24/2025		4.65E-04	±	1.07E-02	1.67E-02		4.49E-04	±	1.03E-02	1.61E-02
6/24/2025 -	7/1/2025		2.49E-04	±	1.32E-02	2.04E-02		2.48E-04	±	1.32E-02	2.03E-02
7/1/2025 -	7/8/2025		4.95E-03	±	1.32E-02	1.97E-02		5.13E-03	±	1.37E-02	2.04E-02
7/8/2025 -	7/15/2025		-1.52E-03	±	1.48E-02	2.24E-02		-1.41E-03	±	1.37E-02	2.08E-02
7/15/2025 -	7/22/2025		-1.25E-03	±	1.29E-02	1.99E-02		-1.25E-03	±	1.29E-02	1.98E-02
7/22/2025 -	7/29/2025		5.55E-03	±	1.19E-02	1.77E-02		5.73E-03	±	1.23E-02	1.83E-02
7/29/2025 -	8/5/2025		9.29E-04	±	1.16E-02	1.79E-02		9.31E-04	±	1.16E-02	1.79E-02
8/5/2025 -	8/12/2025		-2.91E-03	±	1.22E-02	1.85E-02		-3.03E-03	±	1.27E-02	1.93E-02
8/12/2025 -	8/19/2025		-1.92E-03	±	1.53E-02	2.33E-02		-1.83E-03	±	1.46E-02	2.21E-02
8/19/2025 -	8/26/2025		3.26E-03	±	1.31E-02	1.98E-02		3.32E-03	±	1.34E-02	2.02E-02
8/26/2025 -	9/2/2025		-6.01E-03	±	1.29E-02	1.91E-02		-7.31E-03	±	1.57E-02	2.32E-02
9/2/2025 -	9/9/2025		3.42E-03	±	1.15E-02	1.75E-02		3.50E-03	±	1.18E-02	1.79E-02
9/9/2025 -	9/16/2025		6.23E-03	±	1.16E-02	1.72E-02		6.13E-03	±	1.14E-02	1.69E-02
9/16/2025 -	9/23/2025		1.13E-04	±	1.08E-02	1.69E-02		1.10E-04	±	1.05E-02	1.64E-02
9/23/2025 -	9/30/2025		-5.99E-03	±	1.38E-02	2.04E-02		-5.82E-03	±	1.34E-02	1.99E-02
9/30/2025 -	10/7/2025		-1.83E-03	±	1.46E-02	2.22E-02		-1.85E-03	±	1.48E-02	2.24E-02
10/7/2025 -	10/14/2025		-7.77E-03	±	1.48E-02	2.17E-02		-7.14E-03	±	1.36E-02	2.00E-02
10/14/2025 -	10/21/2025		-3.91E-03	±	1.45E-02	2.17E-02		-3.61E-03	±	1.33E-02	2.00E-02
10/21/2025 -	10/28/2025		-1.09E-02	±	2.04E-02	2.87E-02		-9.81E-03	±	1.84E-02	2.59E-02
10/28/2025 -	11/4/2025		-7.04E-03	±	1.98E-02	2.82E-02		-6.82E-03	±	1.92E-02	2.74E-02
11/4/2025 -	11/11/2025		3.48E-03	±	1.40E-02	2.11E-02		3.26E-03	±	1.31E-02	1.97E-02
11/11/2025 -	11/18/2025		-2.08E-04	±	1.03E-02	1.60E-02		-1.88E-04	±	9.33E-03	1.45E-02
11/18/2025 -	11/24/2025		-3.22E-03	±	1.41E-02	2.12E-02		-2.80E-03	±	1.22E-02	1.84E-02
11/24/2025 -	12/2/2025		3.91E-03	±	8.71E-03	1.30E-02		3.95E-03	±	8.79E-03	1.31E-02
12/2/2025 -	12/9/2025		-3.43E-03	±	1.16E-02	1.74E-02		-3.17E-03	±	1.08E-02	1.61E-02
12/9/2025 -	12/16/2025		-5.50E-03	±	1.27E-02	1.87E-02		-4.85E-03	±	1.12E-02	1.65E-02
12/16/2025 -	12/22/2025		-6.09E-03	±	1.51E-02	2.23E-02		-5.67E-03	±	1.41E-02	2.07E-02
12/22/2025 -	12/30/2025		-6.17E-03	±	1.18E-02	1.72E-02		-5.45E-03	±	1.04E-02	1.52E-02

*Collection Period for ST-23: 11/25/2025-12/2/2025.

NVS = Valid sample not obtained due to sampler failure.

RQ= Results Qualifer. If blank, result is less than detection limit. If "+", result is above detection limit.

TABLE A-4.1

GAMMA SPECTROMETRY RESULTS OF IODINE-131 ON CHARCOAL FILTERS

Results in pCi/cubic meter, corrected for decay during collection period

Collection Period		Station 9					Station 21B				
		RQ	Activity		Error	MDA	RQ	Activity		Error	MDA
12/30/2024 -	1/7/2025		1.09E-04	±	1.04E-02	1.63E-02		9.04E-05	±	8.65E-03	1.35E-02
1/7/2025 -	1/14/2025		4.04E-04	±	1.56E-02	2.39E-02		3.82E-04	±	1.47E-02	2.26E-02
1/14/2025 -	1/21/2025		8.19E-03	±	9.02E-03	1.28E-02		6.58E-03	±	7.25E-03	1.03E-02
1/21/2025 -	1/28/2025		1.38E-03	±	1.24E-02	1.88E-02		1.40E-03	±	1.25E-02	1.91E-02
1/28/2025 -	2/4/2025		1.20E-04	±	1.35E-02	2.08E-02		1.22E-04	±	1.37E-02	2.11E-02
2/4/2025 -	2/11/2025		-4.72E-03	±	1.60E-02	2.37E-02		-4.86E-03	±	1.65E-02	2.45E-02
2/11/2025 -	2/18/2025		-3.63E-03	±	1.76E-02	2.56E-02		-3.66E-03	±	1.78E-02	2.58E-02
2/18/2025 -	2/25/2025		5.35E-03	±	1.19E-02	1.77E-02		5.27E-03	±	1.17E-02	1.74E-02
2/25/2025 -	3/4/2025		-1.22E-02	±	2.19E-02	3.08E-02		-1.27E-02	±	2.28E-02	3.20E-02
3/4/2025 -	3/11/2025		3.25E-03	±	1.30E-02	1.97E-02		3.46E-03	±	1.39E-02	2.10E-02
3/11/2025 -	3/18/2025		-4.96E-03	±	1.41E-02	2.09E-02		-4.92E-03	±	1.39E-02	2.08E-02
3/18/2025 -	3/25/2025		-9.18E-03	±	2.15E-02	3.05E-02		-8.30E-03	±	1.94E-02	2.76E-02
3/25/2025 -	4/1/2025		2.81E-03	±	1.58E-02	2.32E-02		3.01E-03	±	1.69E-02	2.48E-02
4/1/2025 -	4/8/2025		-8.12E-03	±	1.72E-02	2.44E-02		-8.14E-03	±	1.72E-02	2.45E-02
4/8/2025 -	4/15/2025		4.29E-04	±	1.96E-02	2.87E-02		4.23E-04	±	1.93E-02	2.83E-02
4/15/2025 -	4/22/2025		7.83E-03	±	1.44E-02	2.05E-02		7.74E-03	±	1.42E-02	2.02E-02
4/22/2025 -	4/29/2025		-7.54E-03	±	1.93E-02	2.75E-02		-7.56E-03	±	1.94E-02	2.76E-02
4/29/2025 -	5/6/2025		4.22E-03	±	1.28E-02	1.92E-02		4.26E-03	±	1.29E-02	1.94E-02
5/6/2025 -	5/13/2025		1.15E-03	±	1.19E-02	1.83E-02		1.17E-03	±	1.22E-02	1.87E-02
5/13/2025 -	5/20/2025		1.22E-03	±	1.46E-02	2.17E-02		1.27E-03	±	1.52E-02	2.25E-02
5/20/2025 -	5/27/2025		4.60E-03	±	1.02E-02	1.52E-02		4.96E-03	±	1.10E-02	1.64E-02
5/27/2025 -	6/3/2025		3.60E-03	±	1.39E-02	2.09E-02		3.41E-03	±	1.32E-02	1.98E-02
6/3/2025 -	6/10/2025		3.39E-03	±	1.43E-02	2.15E-02		3.15E-03	±	1.32E-02	1.99E-02
6/10/2025 -	6/17/2025		4.30E-03	±	1.18E-02	1.78E-02		4.03E-03	±	1.11E-02	1.67E-02
6/17/2025 -	6/24/2025		4.82E-04	±	1.11E-02	1.73E-02		4.47E-04	±	1.03E-02	1.61E-02
6/24/2025 -	7/1/2025		2.49E-04	±	1.32E-02	2.04E-02		2.44E-04	±	1.30E-02	2.00E-02
7/1/2025 -	7/8/2025		5.07E-03	±	1.35E-02	2.02E-02		4.91E-03	±	1.31E-02	1.95E-02
7/8/2025 -	7/15/2025		-1.49E-03	±	1.45E-02	2.20E-02		-1.58E-03	±	1.53E-02	2.33E-02
7/15/2025 -	7/22/2025		-1.26E-03	±	1.31E-02	2.01E-02		-1.25E-03	±	1.30E-02	1.99E-02
7/22/2025 -	7/29/2025		5.54E-03	±	1.19E-02	1.77E-02		5.56E-03	±	1.19E-02	1.78E-02
7/29/2025 -	8/5/2025		9.47E-04	±	1.18E-02	1.83E-02		9.38E-04	±	1.17E-02	1.81E-02
8/5/2025 -	8/12/2025		-2.99E-03	±	1.26E-02	1.90E-02		-2.92E-03	±	1.23E-02	1.86E-02
8/12/2025 -	8/19/2025		-1.87E-03	±	1.49E-02	2.26E-02		-1.99E-03	±	1.59E-02	2.41E-02
8/19/2025 -	8/26/2025		3.41E-03	±	1.37E-02	2.07E-02		3.37E-03	±	1.36E-02	2.05E-02
8/26/2025 -	9/2/2025		-6.01E-03	±	1.29E-02	1.91E-02		-5.95E-03	±	1.28E-02	1.89E-02
9/2/2025 -	9/9/2025		3.51E-03	±	1.18E-02	1.80E-02		3.44E-03	±	1.16E-02	1.76E-02
9/9/2025 -	9/16/2025		6.26E-03	±	1.17E-02	1.73E-02		6.40E-03	±	1.20E-02	1.77E-02
9/16/2025 -	9/23/2025		1.15E-04	±	1.10E-02	1.72E-02		1.18E-04	±	1.13E-02	1.76E-02
9/23/2025 -	9/30/2025		-5.90E-03	±	1.36E-02	2.01E-02		-6.09E-03	±	1.40E-02	2.08E-02
9/30/2025 -	10/7/2025		-1.82E-03	±	1.45E-02	2.20E-02		-1.84E-03	±	1.47E-02	2.22E-02
10/7/2025 -	10/14/2025		-7.36E-03	±	1.40E-02	2.06E-02		-7.96E-03	±	1.52E-02	2.23E-02
10/14/2025 -	10/21/2025		-3.64E-03	±	1.35E-02	2.02E-02		-4.07E-03	±	1.50E-02	2.26E-02
10/21/2025 -	10/28/2025		-1.01E-02	±	1.89E-02	2.66E-02		-1.15E-02	±	2.15E-02	3.03E-02
10/28/2025 -	11/4/2025		-7.19E-03	±	2.02E-02	2.88E-02		-7.43E-03	±	2.09E-02	2.98E-02
11/4/2025 -	11/11/2025		3.37E-03	±	1.36E-02	2.04E-02		3.61E-03	±	1.46E-02	2.18E-02
11/11/2025 -	11/18/2025		-1.90E-04	±	9.41E-03	1.46E-02		-2.09E-04	±	1.04E-02	1.61E-02
11/18/2025 -	11/24/2025		-2.99E-03	±	1.30E-02	1.96E-02		-3.21E-03	±	1.40E-02	2.11E-02
11/24/2025 -	12/2/2025		3.91E-03	±	8.71E-03	1.30E-02		4.15E-03	±	9.24E-03	1.37E-02
12/2/2025 -	12/9/2025		-3.62E-03	±	1.23E-02	1.84E-02		-3.55E-03	±	1.20E-02	1.81E-02
12/9/2025 -	12/16/2025		-5.65E-03	±	1.30E-02	1.93E-02		-5.20E-03	±	1.20E-02	1.77E-02
12/16/2025 -	12/22/2025		-6.51E-03	±	1.62E-02	2.38E-02		-5.43E-03	±	1.35E-02	1.99E-02
12/22/2025 -	12/30/2025		-6.24E-03	+	1.19E-02	1.74E-02		-5.63E-03	±	1.07E-02	1.57E-02

*Collection Period for ST-23: 11/25/2025-12/2/2025.

NVS = Valid sample not obtained due to sampler failure.

RQ= Results Qualifer. If blank, result is less than detection limit. If "+", result is above detection limit.

TABLE A-4.1

GAMMA SPECTROMETRY RESULTS OF IODINE-131 ON CHARCOAL FILTERS

Results in pCi/cubic meter, corrected for decay during collection period

Collection Period		Station 23 RQ	Activity		Error	MDA	Station 40 RQ	Activity		Error	MDA
12/30/2024 -	1/7/2025		2.62E-03	±	1.05E-02	1.59E-02		2.62E-03	±	1.05E-02	1.59E-02
1/7/2025 -	1/14/2025		2.55E-03	±	1.25E-02	1.90E-02		2.61E-03	±	1.28E-02	1.94E-02
1/14/2025 -	1/21/2025		-5.93E-04	±	1.09E-02	1.66E-02		-6.89E-04	±	1.26E-02	1.93E-02
1/21/2025 -	1/28/2025		4.39E-03	±	1.22E-02	1.81E-02		4.33E-03	±	1.20E-02	1.79E-02
1/28/2025 -	2/4/2025		-7.07E-04	±	1.29E-02	1.98E-02		-6.97E-04	±	1.28E-02	1.96E-02
2/4/2025 -	2/11/2025		7.45E-03	±	1.39E-02	2.03E-02		7.35E-03	±	1.37E-02	2.01E-02
2/11/2025 -	2/18/2025		-6.43E-03	±	1.95E-02	2.79E-02		-6.37E-03	±	1.93E-02	2.76E-02
2/18/2025 -	2/25/2025		4.59E-03	±	1.14E-02	1.71E-02		4.88E-03	±	1.22E-02	1.82E-02
2/25/2025 -	3/4/2025		-4.17E-03	±	1.78E-02	2.59E-02		-3.94E-03	±	1.68E-02	2.45E-02
3/4/2025 -	3/11/2025		-4.09E-03	±	1.54E-02	2.30E-02		-4.13E-03	±	1.55E-02	2.33E-02
3/11/2025 -	3/18/2025		6.20E-04	±	1.28E-02	1.97E-02		6.17E-04	±	1.27E-02	1.96E-02
3/18/2025 -	3/25/2025		4.93E-03	±	1.60E-02	2.32E-02		5.16E-03	±	1.67E-02	2.43E-02
3/25/2025 -	4/1/2025		-1.56E-04	±	1.94E-02	2.86E-02		-1.46E-04	±	1.82E-02	2.68E-02
4/1/2025 -	4/8/2025		2.67E-03	±	1.55E-02	2.29E-02		2.73E-03	±	1.58E-02	2.34E-02
4/8/2025 -	4/15/2025		-6.49E-03	±	1.97E-02	2.83E-02		-6.70E-03	±	2.04E-02	2.93E-02
4/15/2025 -	4/22/2025		-1.31E-02	±	2.35E-02	3.30E-02		-1.34E-02	±	2.40E-02	3.37E-02
4/22/2025 -	4/29/2025		5.92E-04	±	1.58E-02	2.36E-02		5.94E-04	±	1.59E-02	2.37E-02
4/29/2025 -	5/6/2025		-8.70E-04	±	1.44E-02	2.20E-02		-8.87E-04	±	1.47E-02	2.25E-02
5/6/2025 -	5/13/2025		-5.12E-03	±	1.56E-02	2.32E-02		-5.22E-03	±	1.59E-02	2.37E-02
5/13/2025 -	5/20/2025		-2.92E-03	±	1.78E-02	2.61E-02		-2.90E-03	±	1.76E-02	2.59E-02
5/20/2025 -	5/27/2025		-6.24E-04	±	1.29E-02	1.98E-02		-6.43E-04	±	1.33E-02	2.05E-02
5/27/2025 -	6/3/2025		-1.26E-04	±	1.38E-02	2.13E-02		-1.31E-04	±	1.43E-02	2.20E-02
6/4/2025 -	6/11/2025		-6.43E-03	±	1.54E-02	2.27E-02		-7.57E-03	±	1.82E-02	2.68E-02
6/10/2025 -	6/17/2025		1.79E-03	±	9.48E-03	1.46E-02		1.94E-03	±	1.03E-02	1.58E-02
6/17/2025 -	6/24/2025		-2.36E-03	±	1.42E-02	2.13E-02		-2.36E-03	±	1.42E-02	2.13E-02
6/24/2025 -	7/1/2025		-4.73E-03	±	1.41E-02	2.10E-02		-4.86E-03	±	1.44E-02	2.15E-02
7/1/2025 -	7/8/2025		-2.34E-03	±	1.40E-02	2.13E-02		-2.47E-03	±	1.49E-02	2.25E-02
7/8/2025 -	7/15/2025		1.04E-03	±	1.52E-02	2.32E-02		9.62E-04	±	1.40E-02	2.13E-02
7/15/2025 -	7/22/2025		5.03E-03	±	1.22E-02	1.83E-02		5.11E-03	±	1.24E-02	1.86E-02
7/22/2025 -	7/29/2025		1.70E-03	±	1.13E-02	1.74E-02		1.78E-03	±	1.18E-02	1.82E-02
7/29/2025 -	8/5/2025		-2.77E-03	±	1.30E-02	1.97E-02		-2.92E-03	±	1.37E-02	2.08E-02
8/5/2025 -	8/12/2025		3.07E-03	±	1.29E-02	1.95E-02		3.25E-03	±	1.37E-02	2.07E-02
8/12/2025 -	8/19/2025		1.57E-03	±	1.17E-02	1.81E-02		1.51E-03	±	1.12E-02	1.73E-02
8/19/2025 -	8/26/2025		-3.73E-03	±	1.50E-02	2.26E-02		-3.90E-03	±	1.57E-02	2.36E-02
8/26/2025 -	9/2/2025		-2.52E-04	±	1.46E-02	2.23E-02		-2.69E-04	±	1.55E-02	2.38E-02
9/2/2025 -	9/9/2025		6.79E-03	±	1.31E-02	1.93E-02		7.22E-03	±	1.39E-02	2.05E-02
9/9/2025 -	9/16/2025		6.77E-03	±	1.06E-02	1.55E-02		7.16E-03	±	1.12E-02	1.64E-02
9/16/2025 -	9/23/2025		2.74E-03	±	1.21E-02	1.83E-02		2.90E-03	±	1.28E-02	1.94E-02
9/23/2025 -	9/30/2025		5.16E-03	±	1.01E-02	1.51E-02		5.38E-03	±	1.05E-02	1.57E-02
9/30/2025 -	10/7/2025		4.58E-03	±	1.14E-02	1.71E-02		4.88E-03	±	1.21E-02	1.82E-02
10/7/2025 -	10/14/2025		-1.52E-03	±	1.27E-02	1.95E-02		-1.54E-03	±	1.29E-02	1.98E-02
10/14/2025 -	10/21/2025		-3.00E-04	±	1.49E-02	2.31E-02		-2.46E-04	±	1.22E-02	1.90E-02
10/21/2025 -	10/28/2025		NVS					-4.07E-04	±	1.60E-02	2.36E-02
10/28/2025 -	11/4/2025		NVS					-1.31E-03	±	1.91E-02	2.80E-02
11/4/2025 -	11/11/2025		NVS					3.51E-03	±	1.23E-02	1.86E-02
11/11/2025 -	11/18/2025		NVS					-3.25E-03	±	1.20E-02	1.80E-02
11/18/2025 -	11/24/2025		NVS					-1.90E-03	±	1.13E-02	1.72E-02
*11/24/2025 -	12/2/2025		4.97E-03	±	9.37E-03	1.39E-02		4.73E-03	±	8.92E-03	1.32E-02
12/2/2025 -	12/9/2025		-7.36E-04	±	1.05E-02	1.62E-02		-7.24E-04	±	1.03E-02	1.59E-02
12/9/2025 -	12/16/2025		2.65E-03	±	1.04E-02	1.58E-02		2.52E-03	±	9.89E-03	1.51E-02
12/16/2025 -	12/22/2025		-6.47E-03	±	1.49E-02	2.19E-02		-6.69E-03	±	1.54E-02	2.27E-02
12/22/2025 -	12/30/2025		-2.03E-03	±	1.22E-02	1.84E-02		-1.95E-03	±	1.17E-02	1.76E-02

*Collection Period for ST-23: 11/25/2025-12/2/2025.

NVS = Valid sample not obtained due to sampler failure.

RQ= Results Qualifer. If blank, result is less than detection limit. If "+", result is above detection limit.

TABLE A-4.1

GAMMA SPECTROMETRY RESULTS OF IODINE-131 ON CHARCOAL FILTERS

Results in pCi/cubic meter, corrected for decay during collection period

Collection Period		Station 48					Station 57				
		RQ	Activity		Error	MDA	RQ	Activity		Error	MDA
12/30/2024 -	1/7/2025		2.99E-03	±	1.20E-02	1.82E-02		2.48E-03	±	9.97E-03	1.51E-02
1/7/2025 -	1/14/2025		2.91E-03	±	1.43E-02	2.16E-02		2.47E-03	±	1.21E-02	1.84E-02
1/14/2025 -	1/21/2025		-5.08E-04	±	9.29E-03	1.43E-02		-5.81E-04	±	1.06E-02	1.63E-02
1/21/2025 -	1/28/2025		4.59E-03	±	1.27E-02	1.89E-02		4.10E-03	±	1.14E-02	1.69E-02
1/28/2025 -	2/4/2025		-8.32E-04	±	1.52E-02	2.34E-02		-6.67E-04	±	1.22E-02	1.87E-02
2/4/2025 -	2/11/2025		7.27E-03	±	1.35E-02	1.98E-02		7.06E-03	±	1.31E-02	1.93E-02
2/11/2025 -	2/18/2025		-6.40E-03	±	1.94E-02	2.78E-02		-6.11E-03	±	1.85E-02	2.65E-02
2/18/2025 -	2/25/2025		4.67E-03	±	1.16E-02	1.74E-02		4.45E-03	±	1.11E-02	1.66E-02
2/25/2025 -	3/4/2025		-3.64E-03	±	1.56E-02	2.27E-02		-3.94E-03	±	1.69E-02	2.46E-02
3/4/2025 -	3/11/2025		-3.98E-03	±	1.50E-02	2.24E-02		-3.95E-03	±	1.49E-02	2.22E-02
3/11/2025 -	3/18/2025		6.04E-04	±	1.25E-02	1.92E-02		5.90E-04	±	1.22E-02	1.88E-02
3/18/2025 -	3/25/2025		5.03E-03	±	1.63E-02	2.36E-02		4.83E-03	±	1.57E-02	2.27E-02
3/25/2025 -	4/1/2025		-1.40E-04	±	1.74E-02	2.56E-02		-1.48E-04	±	1.84E-02	2.72E-02
4/1/2025 -	4/8/2025		2.68E-03	±	1.56E-02	2.30E-02		2.60E-03	±	1.51E-02	2.22E-02
4/8/2025 -	4/15/2025		-6.82E-03	±	2.07E-02	2.98E-02		-6.39E-03	±	1.95E-02	2.79E-02
4/15/2025 -	4/22/2025		-1.35E-02	±	2.43E-02	3.41E-02		-1.29E-02	±	2.31E-02	3.24E-02
4/22/2025 -	4/29/2025		5.79E-04	±	1.55E-02	2.31E-02		5.75E-04	±	1.54E-02	2.29E-02
4/29/2025 -	5/6/2025		-8.49E-04	±	1.41E-02	2.15E-02		-8.53E-04	±	1.42E-02	2.16E-02
5/6/2025 -	5/13/2025		-5.06E-03	±	1.54E-02	2.30E-02		-4.98E-03	±	1.52E-02	2.26E-02
5/13/2025 -	5/20/2025		-2.82E-03	±	1.72E-02	2.52E-02		-2.79E-03	±	1.70E-02	2.49E-02
5/20/2025 -	5/27/2025		-6.43E-04	±	1.33E-02	2.05E-02		-6.22E-04	±	1.28E-02	1.98E-02
5/27/2025 -	6/3/2025		-1.24E-04	±	1.36E-02	2.10E-02		-1.27E-04	±	1.38E-02	2.13E-02
6/4/2025 -	6/11/2025		-6.95E-03	±	1.67E-02	2.46E-02		-7.15E-03	±	1.72E-02	2.53E-02
6/10/2025 -	6/17/2025		2.02E-03	±	1.07E-02	1.64E-02		2.14E-03	±	1.13E-02	1.74E-02
6/17/2025 -	6/24/2025		-2.47E-03	±	1.48E-02	2.24E-02		-2.59E-03	±	1.55E-02	2.34E-02
6/24/2025 -	7/1/2025		-5.01E-03	±	1.49E-02	2.22E-02		-4.68E-03	±	1.39E-02	2.08E-02
7/1/2025 -	7/8/2025		-2.55E-03	±	1.53E-02	2.32E-02		-2.30E-03	±	1.38E-02	2.09E-02
7/8/2025 -	7/15/2025		9.89E-04	±	1.44E-02	2.19E-02		9.97E-04	±	1.45E-02	2.21E-02
7/15/2025 -	7/22/2025		5.29E-03	±	1.29E-02	1.92E-02		4.92E-03	±	1.20E-02	1.79E-02
7/22/2025 -	7/29/2025		1.87E-03	±	1.25E-02	1.92E-02		1.69E-03	±	1.12E-02	1.73E-02
7/29/2025 -	8/5/2025		-2.61E-03	±	1.23E-02	1.86E-02		-2.73E-03	±	1.29E-02	1.95E-02
8/5/2025 -	8/12/2025		2.88E-03	±	1.21E-02	1.83E-02		3.05E-03	±	1.28E-02	1.94E-02
8/12/2025 -	8/19/2025		1.29E-03	±	9.60E-03	1.49E-02		1.58E-03	±	1.18E-02	1.82E-02
8/19/2025 -	8/26/2025		-3.35E-03	±	1.35E-02	2.03E-02		-3.84E-03	±	1.55E-02	2.33E-02
8/26/2025 -	9/2/2025		-2.30E-04	±	1.33E-02	2.04E-02		-2.61E-04	±	1.51E-02	2.32E-02
9/2/2025 -	9/9/2025		6.25E-03	±	1.20E-02	1.77E-02		7.98E-03	±	1.54E-02	2.27E-02
9/9/2025 -	9/16/2025		6.27E-03	±	9.83E-03	1.44E-02		6.56E-03	±	1.03E-02	1.51E-02
9/16/2025 -	9/23/2025		2.52E-03	±	1.11E-02	1.69E-02		2.41E-03	±	1.06E-02	1.62E-02
9/23/2025 -	9/30/2025		4.57E-03	±	8.94E-03	1.33E-02		5.07E-03	±	9.91E-03	1.48E-02
9/30/2025 -	10/7/2025		4.42E-03	±	1.10E-02	1.65E-02		4.50E-03	±	1.12E-02	1.68E-02
10/7/2025 -	10/14/2025		-1.45E-03	±	1.21E-02	1.86E-02		-1.49E-03	±	1.24E-02	1.91E-02
10/14/2025 -	10/21/2025		-2.43E-04	±	1.21E-02	1.88E-02		-2.49E-04	±	1.24E-02	1.92E-02
10/21/2025 -	10/28/2025		-3.93E-04	±	1.54E-02	2.28E-02		-4.10E-04	±	1.61E-02	2.38E-02
10/28/2025 -	11/4/2025		-1.30E-03	±	1.90E-02	2.78E-02		-1.20E-03	±	1.76E-02	2.57E-02
11/4/2025 -	11/11/2025		3.37E-03	±	1.19E-02	1.79E-02		3.22E-03	±	1.13E-02	1.71E-02
11/11/2025 -	11/18/2025		-3.11E-03	±	1.15E-02	1.73E-02		-2.96E-03	±	1.09E-02	1.64E-02
11/18/2025 -	11/24/2025		-2.19E-03	±	1.30E-02	1.99E-02		-1.81E-03	±	1.08E-02	1.64E-02
11/24/2025 -	12/2/2025		4.63E-03	±	8.72E-03	1.29E-02		4.08E-03	±	7.68E-03	1.14E-02
12/2/2025 -	12/9/2025		-6.74E-04	±	9.62E-03	1.49E-02		-7.44E-04	±	1.06E-02	1.64E-02
12/9/2025 -	12/16/2025		2.14E-03	±	8.43E-03	1.28E-02		2.72E-03	±	1.07E-02	1.63E-02
12/16/2025 -	12/22/2025		-6.59E-03	±	1.52E-02	2.23E-02		-6.80E-03	±	1.56E-02	2.31E-02
12/22/2025 -	12/30/2025		-1.88E-03	±	1.13E-02	1.70E-02		-2.15E-03	±	1.29E-02	1.94E-02

*Collection Period for ST-23: 11/25/2025-12/2/2025.

NVS = Valid sample not obtained due to sampler failure.

RQ= Results Qualifer. If blank, result is less than detection limit. If "+", result is above detection limit.

TABLE A-4.2

GAMMA SPECTROMETRY RESULTS OF IODINE-131 ON CHARCOAL FILTERS - SUMMARY

Results in pCi/cubic meter, corrected for decay during collection period

Nuclide		Average Activity	Activity Low	Activity High	Average MDA	Number of Samples	Number of Positive IDs
I-131	Ind	-2.76E-04	-1.35E-02	1.13E-02	2.06E-02	567	0
I-131	Cntl	-7.68E-04	-1.22E-02	8.19E-03	2.07E-02	52	0

Ind = Indicator Stations Cntl = Control Stations

TABLE A-5.1

GROSS BETA IN WATER

Results in pCi/liter

Collection Period	ST- 26 River/Drinking Cntl RQ	Activity	±	Error	MDA	ST- 29 River/Drinking Ind RQ	Activity	±	Error	MDA
1/6/2025 - 2/3/2025		1.13E+00	±	6.40E-01	2.05E+00		1.24E+00	±	6.48E-01	2.06E+00
2/3/2025 - 3/3/2025		-4.47E-01	±	6.86E-01	2.27E+00		1.81E+00	±	7.78E-01	2.28E+00
3/3/2025 - 4/2/2025		8.78E-01	±	6.72E-01	2.19E+00		-2.46E-02	±	6.12E-01	2.20E+00
4/2/2025 - 5/1/2025		2.10E+00	±	7.62E-01	2.15E+00		1.22E-02	±	5.93E-01	2.15E+00
5/1/2025 - 6/2/2025		1.16E+00	±	6.31E-01	2.00E+00		1.13E+00	±	6.00E-01	1.91E+00
6/2/2025 - 7/1/2025		4.85E-01	±	5.79E-01	1.99E+00		1.31E+00	±	6.03E-01	1.89E+00
7/1/2025 - 7/31/2025		1.05E+00	±	6.41E-01	2.07E+00		3.86E-01	±	5.93E-01	2.08E+00
7/31/2025 - 9/3/2025		-3.83E-03	±	6.72E-01	2.34E+00		7.25E-02	±	6.66E-01	2.34E+00
9/3/2025 - 10/1/2025		6.87E-01	±	7.06E-01	2.38E+00		2.35E-01	±	6.43E-01	2.28E+00
10/1/2025 - 11/3/2025		1.63E+00	±	7.35E-01	2.18E+00		1.51E+00	±	7.40E-01	2.21E+00
11/3/2025 - 12/1/2025		1.10E+00	±	6.25E-01	2.01E+00		8.51E-01	±	6.07E-01	2.02E+00
12/1/2025 - 1/5/2026		4.46E-01	±	6.60E-01	2.24E+00		-3.23E-01	±	6.49E-01	2.26E+00

Collection Period	ST- 27 CW Discharge RQ	Activity	±	Error	MDA
1/6/2025 - 2/3/2025	+	4.12E+00	±	8.57E-01	2.12E+00
2/3/2025 - 3/3/2025	+	8.39E+00	±	1.30E+00	3.09E+00
3/3/2025 - 4/2/2025	+	3.23E+00	±	9.50E-01	2.69E+00
4/2/2025 - 5/1/2025	+	3.94E+00	±	9.83E-01	2.62E+00
5/1/2025 - 6/2/2025		NVS			
6/2/2025 - 7/1/2025	+	2.64E+00	±	7.67E-01	2.15E+00
7/1/2025 - 7/31/2025	+	4.33E+00	±	1.00E+00	2.66E+00
7/31/2025 - 9/3/2025	+	6.16E+00	±	1.18E+00	3.02E+00
9/3/2025 - 10/1/2025	+	5.78E+00	±	1.10E+00	2.85E+00
10/1/2025 - 11/3/2025	+	6.33E+00	±	1.15E+00	2.82E+00
11/3/2025 - 12/1/2025	+	7.07E+00	±	1.15E+00	2.67E+00
12/1/2025 - 1/5/2026	+	1.21E+01	±	1.34E+00	2.29E+00

TABLE A-5.2

GROSS BETA IN WATER - SUMMARY

Results in pCi/liter

Location	Average Activity	Activity Low	Activity High	Number of Samples	Number of Positive IDs
ST- 26 Control	8.51E-01	-4.47E-01	2.10E+00	12	0
ST- 29 Indicator	6.84E-01	-3.23E-01	1.81E+00	12	0
ST- 27 Discharge	5.83E+00	2.64E+00	1.21E+01	11	11

RQ = Results Qualifier. If blank, result is less than detection limit. If "+", result is above detection limit.
NVS = Valid sample not obtained.

TABLE A-6.1
TRITIUM IN WATER
Results in pCi/liter, MDA for all samples is 300 pCi/liter

Station	Description	Collection Period	RQ	Activity		Error
26	River/Drinking Control	1/6/2025 - 4/2/2025		1.07E+02	±	9.15E+01
		4/2/2025 - 7/1/2025		6.63E+01	±	9.05E+01
		7/1/2025 - 10/1/2025		-2.82E+00	±	1.06E+02
		10/1/2025 - 1/5/2026		6.79E+01	±	9.12E+01
29	River/Drinking Indicator	1/6/2025 - 4/2/2025		1.12E+02	±	9.06E+01
		4/2/2025 - 7/1/2025		3.98E+01	±	8.89E+01
		7/1/2025 - 10/1/2025		-3.57E+01	±	1.06E+02
		10/1/2025 - 1/5/2026		2.48E+01	±	8.96E+01
27	Plant Discharge	1/6/2025 - 4/2/2025		1.69E+02	±	9.36E+01
		4/2/2025 - 7/1/2025		6.00E+01	±	8.91E+01
		7/1/2025 - 10/1/2025		3.15E+01	±	1.07E+02
		10/1/2025 - 1/5/2026		1.07E+02	±	9.20E+01
52	Ground Water Well 3	3/3/2025		1.50E+02	±	8.89E+01
		6/30/2025		4.17E+01	±	8.87E+01
		9/3/2025		7.43E+01	±	1.21E+02
		12/1/2025		4.79E+01	±	9.09E+01

TABLE A-6.2
TRITIUM IN WATER - Summary
Results in pCi/liter

Location Description	Average Activity	Activity Low	Activity High	Number of Samples	Number of Positive IDs
River/Drinking Control	5.95E+01	-2.82E+00	1.07E+02	4	0
River/Drinking Indicator	3.52E+01	-3.57E+01	1.12E+02	4	0
Discharge Indicator	9.19E+01	3.15E+01	1.69E+02	4	0
Ground Water Well 3	7.85E+01	4.17E+01	1.50E+02	4	0

Quarterly tritium values reported for ST-26, 27, and 29 are average of monthly analysis values.
RQ = Results Qualifier. If blank, result is less than detection limit. If "+", result is above the detection limit.

Table A-7.1

GAMMA SPECTROMETRY RESULTS OF RIVER/DRINKING WATER

Station 26 - Control Station 29 - Indicator

Results in pCi/liter, corrected for decay during collection period

Location ST-26 collected 2/3/2025

Nuclide	RQ	Activity	±	Error	MDA
BALA140		3.01E+00	±	1.15E+01	1.43E+01
BI-214		-1.55E+00	±	7.08E+00	1.03E+01
CO-58		8.19E-02	±	3.37E+00	4.54E+00
CO-60		-2.01E+00	±	3.60E+00	4.49E+00
CR-51		-6.12E+00	±	4.11E+01	5.76E+01
CS-134		-1.92E+00	±	3.17E+00	4.25E+00
CS-137		7.93E-01	±	3.08E+00	4.22E+00
FE-59		2.37E+00	±	1.05E+01	1.34E+01
I-131		8.61E-01	±	1.66E+01	2.34E+01
K-40		-2.72E+01	±	4.02E+01	5.88E+01
MN-54		-1.72E+00	±	3.54E+00	4.64E+00
ZN-65		1.71E+00	±	5.21E+00	6.82E+00
ZRNB-95		-8.37E-01	±	6.26E+00	8.37E+00

Location ST-26 collected 3/3/2025

Nuclide	RQ	Activity	±	Error	MDA
BALA140		2.48E+00	±	1.08E+01	1.33E+01
BI-214	+	2.43E+01	±	6.76E+00	6.90E+00
CO-58		-8.88E-01	±	3.58E+00	4.81E+00
CO-60		-1.46E+00	±	3.78E+00	4.66E+00
CR-51		2.64E+01	±	3.84E+01	5.32E+01
CS-134		-1.67E+00	±	3.90E+00	6.52E+00
CS-137		-1.17E+00	±	3.08E+00	4.22E+00
FE-59		-3.62E+00	±	1.21E+01	1.53E+01
I-131		9.13E+00	±	1.33E+01	1.85E+01
K-40		8.49E+00	±	4.17E+01	5.54E+01
MN-54		6.09E-01	±	2.87E+00	3.86E+00
ZN-65		-8.50E-02	±	6.77E+00	8.77E+00
ZRNB-95		3.96E+00	±	5.92E+00	7.77E+00

Location ST-26 collected 4/2/2025

Nuclide	RQ	Activity	±	Error	MDA
BALA140		-3.52E+00	±	1.25E+01	1.52E+01
BI-214		1.92E+00	±	8.34E+00	1.14E+01
CO-58		1.00E-01	±	3.26E+00	4.44E+00
CO-60		2.86E+00	±	2.78E+00	3.30E+00
CR-51		2.48E+01	±	3.08E+01	4.25E+01
CS-134		-1.94E+00	±	3.22E+00	4.34E+00
CS-137		7.52E-01	±	3.22E+00	4.44E+00
FE-59		1.57E+00	±	8.79E+00	1.15E+01
I-131		4.91E-01	±	1.25E+01	1.78E+01
K-40		5.72E+00	±	3.96E+01	5.33E+01
MN-54		-5.73E-01	±	3.02E+00	4.07E+00
ZN-65		7.63E-01	±	5.85E+00	7.59E+00
ZRNB-95		-2.01E+00	±	7.54E+00	1.00E+01

Location ST-26 collected 5/1/2025

Nuclide	RQ	Activity	±	Error	MDA
BALA140		-4.75E+00	±	1.06E+01	1.28E+01
BI-214	+	2.24E+01	±	6.16E+00	6.66E+00
CO-58		7.80E-02	±	2.91E+00	3.99E+00
CO-60		1.36E+00	±	2.15E+00	2.67E+00
CR-51		1.86E+01	±	3.01E+01	4.19E+01
CS-134		-1.36E+00	±	3.90E+00	6.54E+00
CS-137		1.87E+00	±	3.63E+00	4.92E+00
FE-59		-4.80E-01	±	9.41E+00	1.23E+01
I-131		7.02E-01	±	9.79E+00	1.39E+01
K-40		-4.13E+01	±	4.71E+01	6.41E+01
MN-54		-8.63E-02	±	3.08E+00	4.18E+00
ZN-65		-3.37E+00	±	7.86E+00	9.87E+00
ZRNB-95		-6.52E-01	±	6.05E+00	8.17E+00

Location ST-26 collected 6/2/2025

Nuclide	RQ	Activity	±	Error	MDA
BALA140		-1.87E+00	±	8.13E+00	1.00E+01
BI-214		-8.82E+00	±	6.50E+00	9.53E+00
CO-58		-7.32E-01	±	3.05E+00	4.11E+00
CO-60		-3.71E-01	±	3.37E+00	4.25E+00
CR-51		-9.13E-01	±	2.95E+01	4.21E+01
CS-134		1.52E+00	±	2.28E+00	3.08E+00
CS-137		-2.15E+00	±	3.47E+00	4.68E+00
FE-59		-6.52E+00	±	1.11E+01	1.39E+01
I-131		-2.64E-01	±	8.79E+00	1.25E+01
K-40		1.52E+01	±	4.11E+01	5.43E+01
MN-54		-1.71E+00	±	3.35E+00	4.42E+00
ZN-65		1.26E-01	±	5.74E+00	7.51E+00
ZRNB-95		1.63E+00	±	5.82E+00	7.79E+00

Location ST-26 collected 7/1/2025

Nuclide	RQ	Activity	±	Error	MDA
BALA140		2.04E+00	±	6.79E+00	8.86E+00
BI-214		-5.83E-01	±	7.90E+00	1.10E+01
CO-58		1.76E-01	±	3.37E+00	4.61E+00
CO-60		1.28E-01	±	2.97E+00	3.93E+00
CR-51		1.45E+01	±	3.03E+01	4.40E+01
CS-134		-9.12E-01	±	3.32E+00	4.54E+00
CS-137		2.94E+00	±	3.59E+00	4.80E+00
FE-59		8.65E-01	±	8.20E+00	1.09E+01
I-131		4.90E+00	±	1.13E+01	1.59E+01
K-40		-6.57E+00	±	4.43E+01	6.08E+01
MN-54		-6.33E-01	±	3.03E+00	4.10E+00
ZN-65		-1.50E+00	±	7.51E+00	9.87E+00
ZRNB-95		-1.55E+00	±	6.41E+00	8.63E+00

RQ = Results Qualifier. If blank, result is less than detection limit. If "+", result is above detection limit.

Table A-7.1

GAMMA SPECTROMETRY RESULTS OF RIVER/DRINKING WATER

Station 26 - Control Station 29 - Indicator

Results in pCi/liter, corrected for decay during collection period

Location ST-26 collected 7/31/2025

Nuclide	RQ	Activity	±	Error	MDA
BALA140		-3.70E+00	±	1.06E+01	1.32E+01
BI-214		-7.43E-01	±	7.61E+00	1.06E+01
CO-58		-1.67E+00	±	3.76E+00	4.99E+00
CO-60		-1.59E+00	±	3.61E+00	4.58E+00
CR-51		-2.67E+00	±	3.08E+01	4.55E+01
CS-134		-1.67E+00	±	3.41E+00	4.62E+00
CS-137		-1.82E+00	±	3.49E+00	4.74E+00
FE-59		4.52E+00	±	7.86E+00	1.00E+01
I-131		6.13E+00	±	1.06E+01	1.48E+01
K-40		-1.60E+01	±	4.27E+01	5.97E+01
MN-54		2.08E+00	±	2.64E+00	3.45E+00
ZN-65		-2.52E+00	±	7.71E+00	1.00E+01
ZRNB-95		1.76E+00	±	5.53E+00	7.45E+00

Location ST-26 collected 9/3/2025

Nuclide	RQ	Activity	±	Error	MDA
BALA140		-8.63E-01	±	1.06E+01	1.36E+01
BI-214		7.67E+00	±	7.68E+00	1.03E+01
CO-58		-1.33E-01	±	3.32E+00	4.55E+00
CO-60		-1.36E+00	±	3.21E+00	4.11E+00
CR-51		-1.57E-01	±	3.54E+01	5.23E+01
CS-134		-1.75E+00	±	3.52E+00	4.76E+00
CS-137		-1.56E+00	±	3.18E+00	4.33E+00
FE-59		2.87E+00	±	1.07E+01	1.38E+01
I-131		8.04E+00	±	1.07E+01	1.48E+01
K-40		-1.49E+01	±	4.48E+01	6.19E+01
MN-54		-2.04E+00	±	3.59E+00	4.72E+00
ZN-65		-5.54E+00	±	8.58E+00	1.09E+01
ZRNB-95		2.35E+00	±	5.43E+00	7.27E+00

Location ST-26 collected 10/1/2025

Nuclide	RQ	Activity	±	Error	MDA
BALA140		-1.22E+01	±	1.82E+01	2.24E+01
BI-214	+	5.21E+01	±	1.30E+01	1.55E+01
CO-58		-1.41E-01	±	7.09E+00	9.76E+00
CO-60		-1.12E+00	±	7.36E+00	9.88E+00
CR-51		1.38E+01	±	6.74E+01	9.76E+01
CS-134		-4.03E+00	±	8.66E+00	1.44E+01
CS-137		9.34E+00	±	7.31E+00	9.88E+00
FE-59		1.43E+01	±	1.62E+01	2.04E+01
I-131		7.55E+00	±	1.73E+01	2.49E+01
K-40	+	2.37E+02	±	9.49E+01	1.17E+02
MN-54		1.41E+00	±	6.48E+00	8.85E+00
ZN-65		-1.08E+01	±	1.66E+01	2.16E+01
ZRNB-95		-4.39E+00	±	7.38E+00	9.83E+00

Location ST-26 collected 11/3/2025

Nuclide	RQ	Activity	±	Error	MDA
BALA140		-1.04E+00	±	8.54E+00	1.09E+01
BI-214		8.31E+00	±	8.12E+00	1.08E+01
CO-58		-4.70E-01	±	3.29E+00	4.46E+00
CO-60		0.00E+00	±	6.10E-01	3.93E+00
CR-51		-8.52E+00	±	3.30E+01	4.81E+01
CS-134		-1.52E+00	±	3.43E+00	4.66E+00
CS-137		-1.47E+00	±	3.44E+00	4.70E+00
FE-59		8.15E+00	±	8.02E+00	9.75E+00
I-131		-2.49E+00	±	8.88E+00	1.25E+01
K-40		-1.06E+01	±	4.10E+01	5.75E+01
MN-54		-1.45E+00	±	3.24E+00	4.31E+00
ZN-65		-3.81E+00	±	7.58E+00	9.78E+00
ZRNB-95		2.85E+00	±	5.51E+00	7.32E+00

Location ST-26 collected 12/1/2025

Nuclide	RQ	Activity	±	Error	MDA
BALA140		3.49E-01	±	8.97E+00	1.13E+01
BI-214		-2.91E+00	±	6.48E+00	9.56E+00
CO-58		7.15E-01	±	3.19E+00	4.26E+00
CO-60		4.72E-01	±	3.11E+00	3.99E+00
CR-51		3.52E+00	±	3.38E+01	4.92E+01
CS-134		-8.69E-01	±	3.07E+00	5.14E+00
CS-137		-1.83E+00	±	3.25E+00	4.38E+00
FE-59		-2.25E-01	±	9.88E+00	1.27E+01
I-131		3.54E+00	±	1.11E+01	1.55E+01
K-40		2.03E+01	±	3.42E+01	5.07E+01
MN-54		1.61E+00	±	2.68E+00	3.52E+00
ZN-65		3.30E+00	±	5.94E+00	7.62E+00
ZRNB-95		3.14E+00	±	5.02E+00	6.79E+00

Location ST-26 collected 1/5/2026

Nuclide	RQ	Activity	±	Error	MDA
BALA140		-3.31E+00	±	9.85E+00	1.23E+01
BI-214	+	1.40E+01	±	6.80E+00	7.82E+00
CO-58		-2.33E+00	±	3.87E+00	5.08E+00
CO-60		1.33E+00	±	3.21E+00	4.10E+00
CR-51		-5.92E-01	±	3.11E+01	4.61E+01
CS-134		1.09E+00	±	3.51E+00	5.90E+00
CS-137		2.20E+00	±	2.89E+00	3.88E+00
FE-59		2.07E+00	±	9.45E+00	1.23E+01
I-131		-5.57E-01	±	1.01E+01	1.44E+01
K-40		-2.69E+01	±	4.31E+01	6.08E+01
MN-54		-5.16E-01	±	3.26E+00	4.40E+00
ZN-65		-4.72E+00	±	8.01E+00	1.03E+01
ZRNB-95		1.53E+00	±	5.08E+00	6.89E+00

RQ = Results Qualifier. If blank, result is less than detection limit. If "+", result is above detection limit.

Table A-7.1

GAMMA SPECTROMETRY RESULTS OF RIVER/DRINKING WATER

Station 26 - Control Station 29 - Indicator

Results in pCi/liter, corrected for decay during collection period

Location ST-29 collected 2/3/2025

Nuclide	RQ	Activity	±	Error	MDA
BALA140		3.80E+00	±	1.52E+01	1.98E+01
BI-214		2.08E+00	±	8.54E+00	1.20E+01
CO-58		-2.49E+00	±	4.30E+00	5.83E+00
CO-60		-3.79E-01	±	3.38E+00	4.73E+00
CR-51		1.42E+01	±	4.56E+01	6.64E+01
CS-134		-2.31E+00	±	4.11E+00	5.54E+00
CS-137		-1.15E+00	±	3.63E+00	4.98E+00
FE-59		6.55E-01	±	1.21E+01	1.63E+01
I-131		-4.09E+00	±	2.58E+01	3.78E+01
K-40		1.73E+01	±	3.65E+01	5.43E+01
MN-54		-2.32E+00	±	3.95E+00	5.18E+00
ZN-65		1.01E+00	±	7.88E+00	1.04E+01
ZRNB-95		0.00E+00	±	5.63E+00	1.07E+01

Location ST-29 collected 3/3/2025

Nuclide	RQ	Activity	±	Error	MDA
BALA140		5.48E+00	±	1.36E+01	1.67E+01
BI-214	+	1.85E+01	±	5.99E+00	6.36E+00
CO-58		-1.26E+00	±	3.45E+00	4.62E+00
CO-60		-2.33E+00	±	3.63E+00	4.41E+00
CR-51		2.56E+01	±	4.16E+01	5.79E+01
CS-134		-1.63E+00	±	3.67E+00	6.12E+00
CS-137		8.36E-01	±	2.70E+00	3.73E+00
FE-59		6.95E+00	±	1.03E+01	1.30E+01
I-131		1.46E+01	±	2.23E+01	3.10E+01
K-40		-4.03E+01	±	3.35E+01	4.99E+01
MN-54		-1.41E-01	±	3.05E+00	4.14E+00
ZN-65		-4.77E-01	±	6.56E+00	8.49E+00
ZRNB-95		-1.69E+00	±	6.24E+00	8.39E+00

Location ST- 29 collected 4/2/2025

Nuclide	RQ	Activity	±	Error	MDA
BALA140		5.95E+00	±	1.21E+01	1.48E+01
BI-214	+	1.49E+01	±	5.58E+00	6.65E+00
CO-58		-2.21E+00	±	3.84E+00	5.05E+00
CO-60		-1.09E+00	±	3.87E+00	4.80E+00
CR-51		1.17E+00	±	4.06E+01	5.77E+01
CS-134		-1.96E+00	±	3.79E+00	6.32E+00
CS-137		3.01E+00	±	2.69E+00	3.53E+00
FE-59		7.84E-02	±	1.03E+01	1.36E+01
I-131		7.97E+00	±	1.92E+01	2.70E+01
K-40		-7.66E+00	±	4.08E+01	5.54E+01
MN-54		-5.99E-01	±	3.37E+00	4.52E+00
ZN-65		1.25E+00	±	6.57E+00	8.45E+00
ZRNB-95		-4.85E+00	±	7.89E+00	1.03E+01

Location ST-29 collected 5/1/2025

Nuclide	RQ	Activity	±	Error	MDA
BALA140		-1.09E+00	±	1.03E+01	1.27E+01
BI-214		-8.29E+00	±	6.78E+00	9.85E+00
CO-58		4.54E-01	±	3.04E+00	4.13E+00
CO-60		1.58E+00	±	2.67E+00	3.30E+00
CR-51		1.81E+00	±	3.40E+01	4.83E+01
CS-134		1.38E-01	±	2.99E+00	4.14E+00
CS-137		-2.07E+00	±	3.42E+00	4.61E+00
FE-59		-3.71E+00	±	1.05E+01	1.33E+01
I-131		5.12E+00	±	1.01E+01	1.41E+01
K-40		5.03E+00	±	3.65E+01	4.99E+01
MN-54		1.21E-01	±	2.71E+00	3.70E+00
ZN-65		-1.52E+00	±	7.32E+00	9.33E+00
ZRNB-95		-2.96E+00	±	6.84E+00	9.05E+00

Location ST-29 collected 6/2/2025

Nuclide	RQ	Activity	±	Error	MDA
BALA140		-2.59E+00	±	8.50E+00	1.04E+01
BI-214		-8.16E+00	±	7.10E+00	1.03E+01
CO-58		2.81E+00	±	3.01E+00	3.88E+00
CO-60		-2.13E+00	±	3.92E+00	4.78E+00
CR-51		1.09E+01	±	3.14E+01	4.42E+01
CS-134		6.91E-01	±	3.01E+00	4.13E+00
CS-137		5.01E-01	±	3.26E+00	4.51E+00
FE-59		-1.70E+00	±	9.73E+00	1.26E+01
I-131		3.00E+00	±	9.32E+00	1.31E+01
K-40		2.19E+01	±	4.06E+01	5.33E+01
MN-54		1.00E+00	±	2.69E+00	3.61E+00
ZN-65		-3.19E+00	±	7.38E+00	9.28E+00
ZRNB-95		1.40E+00	±	5.52E+00	7.43E+00

Location ST-29 collected 7/1/2025

Nuclide	RQ	Activity	±	Error	MDA
BALA140		-1.34E+00	±	1.10E+01	1.40E+01
BI-214		7.38E+00	±	8.35E+00	1.12E+01
CO-58		1.80E+00	±	3.66E+00	4.85E+00
CO-60		1.56E+00	±	2.79E+00	3.55E+00
CR-51		8.72E+00	±	3.29E+01	4.83E+01
CS-134		-2.14E+00	±	3.68E+00	4.96E+00
CS-137		1.76E+00	±	3.29E+00	4.47E+00
FE-59		2.63E+00	±	1.11E+01	1.43E+01
I-131		1.03E+01	±	1.17E+01	1.61E+01
K-40		7.90E+00	±	4.11E+01	5.63E+01
MN-54		-3.85E-02	±	2.93E+00	4.02E+00
ZN-65		-5.08E+00	±	8.24E+00	1.05E+01
ZRNB-95		1.96E+00	±	5.84E+00	7.85E+00

RQ = Results Qualifier. If blank, result is less than detection limit. If "+", result is above detection limit.

Table A-7.1

GAMMA SPECTROMETRY RESULTS OF RIVER/DRINKING WATER

Station 26 - Control Station 29 - Indicator

Results in pCi/liter, corrected for decay during collection period

Location ST-29 collected 7/31/2025

Nuclide	RQ	Activity	±	Error	MDA
BALA140		-4.18E+00	±	1.27E+01	1.58E+01
BI-214		6.68E+00	±	8.30E+00	1.12E+01
CO-58		8.46E-01	±	3.45E+00	4.66E+00
CO-60		-6.67E-01	±	3.29E+00	4.27E+00
CR-51		9.51E-01	±	3.34E+01	4.94E+01
CS-134		-2.26E+00	±	3.89E+00	5.23E+00
CS-137		1.29E+00	±	2.94E+00	4.03E+00
FE-59		2.40E-01	±	1.09E+01	1.43E+01
I-131		-1.94E+00	±	1.44E+01	2.04E+01
K-40		7.14E+00	±	4.21E+01	5.75E+01
MN-54		3.85E-02	±	3.00E+00	4.10E+00
ZN-65		-5.43E+00	±	8.42E+00	1.07E+01
ZRNB-95		8.25E-01	±	6.31E+00	8.55E+00

Location ST-29 collected 9/3/2025

Nuclide	RQ	Activity	±	Error	MDA
BALA140		-2.58E+00	±	1.16E+01	1.46E+01
BI-214	+	1.52E+01	±	6.01E+00	7.21E+00
CO-58		6.71E-02	±	3.78E+00	5.15E+00
CO-60		1.28E+00	±	2.61E+00	3.35E+00
CR-51		-1.76E+00	±	3.60E+01	5.31E+01
CS-134		1.66E+00	±	3.71E+00	6.21E+00
CS-137		7.35E-01	±	3.42E+00	4.72E+00
FE-59		3.45E+00	±	1.12E+01	1.44E+01
I-131		-4.11E+00	±	1.46E+01	2.05E+01
K-40		-2.31E+01	±	4.33E+01	6.08E+01
MN-54		-1.06E+00	±	3.19E+00	4.27E+00
ZN-65		-5.23E+00	±	8.88E+00	1.13E+01
ZRNB-95		-6.71E-01	±	6.06E+00	8.25E+00

Location ST-29 collected 10/1/2025

Nuclide	RQ	Activity	±	Error	MDA
BALA140		4.36E+00	±	7.79E+00	9.72E+00
BI-214	+	2.31E+01	±	7.09E+00	7.62E+00
CO-58		4.34E-01	±	3.18E+00	4.34E+00
CO-60		-6.15E-01	±	2.70E+00	3.55E+00
CR-51		-1.22E+01	±	3.44E+01	5.00E+01
CS-134		-1.83E+00	±	4.15E+00	6.92E+00
CS-137		-5.51E-01	±	3.34E+00	4.64E+00
FE-59		2.15E+00	±	1.06E+01	1.37E+01
I-131		3.02E+00	±	1.04E+01	1.47E+01
K-40		-1.49E+00	±	4.46E+01	6.08E+01
MN-54		1.26E+00	±	2.80E+00	3.73E+00
ZN-65		-5.60E+00	±	8.67E+00	1.11E+01
ZRNB-95		-2.67E-01	±	5.84E+00	7.98E+00

Location ST-29 collected 11/3/2025

Nuclide	RQ	Activity	±	Error	MDA
BALA140		-1.16E+00	±	9.47E+00	1.21E+01
BI-214	+	1.23E+01	±	7.54E+00	9.81E+00
CO-58		-8.71E-02	±	3.47E+00	4.74E+00
CO-60		9.99E-01	±	3.32E+00	4.27E+00
CR-51		1.42E+01	±	3.13E+01	4.54E+01
CS-134		-1.90E+00	±	3.45E+00	4.67E+00
CS-137		0.00E+00	±	5.86E-01	4.49E+00
FE-59		3.46E+00	±	6.69E+00	8.65E+00
I-131		5.43E+00	±	1.07E+01	1.49E+01
K-40		9.17E+00	±	4.12E+01	5.63E+01
MN-54		8.80E-01	±	3.10E+00	4.17E+00
ZN-65		2.94E+00	±	5.60E+00	7.29E+00
ZRNB-95		5.75E-01	±	6.26E+00	8.50E+00

Location ST-29 collected 12/1/2025

Nuclide	RQ	Activity	±	Error	MDA
BALA140		-2.04E+00	±	1.12E+01	1.39E+01
BI-214		-5.88E+00	±	6.88E+00	1.02E+01
CO-58		-2.40E+00	±	4.00E+00	5.22E+00
CO-60		1.89E-02	±	3.31E+00	4.26E+00
CR-51		-1.78E+01	±	3.67E+01	5.27E+01
CS-134		-1.89E+00	±	3.26E+00	4.37E+00
CS-137		-1.66E+00	±	3.04E+00	4.11E+00
FE-59		2.92E-01	±	1.07E+01	1.37E+01
I-131		-5.73E+00	±	1.41E+01	1.96E+01
K-40		-1.30E+01	±	3.83E+01	5.68E+01
MN-54		2.36E+00	±	2.74E+00	3.54E+00
ZN-65		-1.51E+00	±	7.26E+00	9.41E+00
ZRNB-95		-2.94E+00	±	6.22E+00	8.44E+00

Location ST-29 collected 1/5/2026

Nuclide	RQ	Activity	±	Error	MDA
BALA140		-6.71E+00	±	1.25E+01	1.53E+01
BI-214		-2.66E-01	±	8.57E+00	1.19E+01
CO-58		5.01E-01	±	3.35E+00	4.55E+00
CO-60		1.54E+00	±	3.23E+00	4.10E+00
CR-51		1.28E+01	±	3.19E+01	4.64E+01
CS-134		-8.35E-01	±	3.28E+00	4.49E+00
CS-137		9.19E-02	±	3.27E+00	4.57E+00
FE-59		3.46E+00	±	9.18E+00	1.18E+01
I-131		-6.28E+00	±	1.18E+01	1.64E+01
K-40		-2.64E+01	±	4.41E+01	6.19E+01
MN-54		-9.95E-01	±	3.29E+00	4.40E+00
ZN-65		-4.95E+00	±	8.03E+00	1.03E+01
ZRNB-95		-1.84E+00	±	6.70E+00	8.97E+00

RQ = Results Qualifier. If blank, result is less than detection limit. If "+", result is above detection limit.

TABLE A-7.2

GAMMA SPECTROMETRY RESULTS OF RIVER/DRINKING WATER - SUMMARY

Station 26 - Control Station 29 - Indicator

Results in pCi/liter, corrected for decay during collection period

Nuclide		Average Activity	Activity Low	Activity High	Average MDA	Number of Samples	Number of Positive IDs
BALA140	Ind	-1.75E-01	-6.71E+00	5.95E+00	1.42E+01	12	0
BALA140	Cntl	-1.95E+00	-1.22E+01	3.01E+00	1.32E+01	12	0
BI-214	Ind	6.46E+00	-8.29E+00	2.31E+01	9.52E+00	12	5
BI-214	Cntl	9.68E+00	-8.82E+00	5.21E+01	1.00E+01	12	4
CO-58	Ind	-1.26E-01	-2.49E+00	2.81E+00	4.75E+00	12	0
CO-58	Cntl	-4.34E-01	-2.33E+00	7.15E-01	4.97E+00	12	0
CO-60	Ind	-1.98E-02	-2.33E+00	1.58E+00	4.12E+00	12	0
CO-60	Cntl	-1.47E-01	-2.01E+00	2.86E+00	4.49E+00	12	0
CR-51	Ind	4.88E+00	-1.78E+01	2.56E+01	5.16E+01	12	0
CR-51	Cntl	6.90E+00	-8.52E+00	2.64E+01	5.17E+01	12	0
CS-134	Ind	-1.19E+00	-2.31E+00	1.66E+00	5.26E+00	12	0
CS-134	Cntl	-1.25E+00	-4.03E+00	1.52E+00	5.73E+00	12	0
CS-137	Ind	2.32E-01	-2.07E+00	3.01E+00	4.37E+00	12	0
CS-137	Cntl	6.58E-01	-2.15E+00	9.34E+00	4.93E+00	12	0
FE-59	Ind	1.27E+00	-3.71E+00	6.95E+00	1.25E+01	12	0
FE-59	Cntl	1.74E+00	-6.52E+00	9.34E+00	1.21E+01	12	0
I-131	Ind	2.28E+00	-6.28E+00	1.46E+01	2.05E+01	12	0
I-131	Cntl	3.17E+00	-2.49E+00	9.13E+00	1.66E+01	12	0
K-40	Ind	-3.62E+00	-4.03E+01	2.19E+01	5.61E+01	12	0
K-40	Cntl	1.20E+01	-4.13E+01	2.37E+02	6.28E+01	12	1
MN-54	Ind	4.26E-02	-2.32E+00	2.36E+00	4.12E+00	12	0
MN-54	Cntl	-2.51E-01	-2.04E+00	2.08E+00	4.54E+00	12	0
ZN-65	Ind	-2.31E+00	-5.60E+00	2.94E+00	9.72E+00	12	0
ZN-65	Cntl	-2.20E+00	-1.08E+01	3.30E+00	1.01E+01	12	0
ZRNB-95	Ind	-8.71E-01	-4.85E+00	1.96E+00	8.70E+00	12	0
ZRNB-95	Cntl	6.47E-01	-4.39E+00	3.96E+00	8.03E+00	12	0

Ind = Indicator Station Cntl= Control Station

TABLE A-8.1

GAMMA SPECTROMETRY RESULTS OF SOIL

Results in pCi/kilogram

Location and Date		Station 7		6/3/2025	
Nuclide	**RQ**	**Activity**		**Error**	**MDA**
BALA140		6.12E+00	±	2.56E+01	3.46E+01
BE-7		1.85E+02	±	2.47E+02	3.42E+02
BI-214	+	5.20E+02	±	7.96E+01	7.15E+01
CO-58		6.78E+00	±	2.62E+01	3.67E+01
CO-60		3.33E-01	±	3.00E+01	4.11E+01
CR-51		4.25E+01	±	2.29E+02	3.37E+02
CS-134		7.15E+00	±	4.78E+01	8.05E+01
CS-137		4.22E+01	±	3.62E+01	4.74E+01
FE-59		4.05E+01	±	8.12E+01	1.05E+02
K-40	+	1.34E+04	±	9.38E+02	3.42E+02
MN-54		1.61E+01	±	2.69E+01	3.66E+01
ZN-65		-3.97E+01	±	8.73E+01	1.47E+02
ZRNB-95		-1.35E+01	±	5.33E+01	7.39E+01

Location and Date		Station 23		6/3/2025	
Nuclide	**RQ**	**Activity**		**Error**	**MDA**
BALA140		-2.10E+01	±	4.20E+01	5.33E+01
BE-7		-4.28E+01	±	2.52E+02	3.60E+02
BI-214	+	4.35E+02	±	7.05E+01	6.69E+01
CO-58		8.77E+00	±	2.59E+01	3.60E+01
CO-60		2.96E+00	±	2.29E+01	3.20E+01
CR-51		8.46E+01	±	2.16E+02	3.14E+02
CS-134		-6.74E+00	±	4.80E+01	8.09E+01
CS-137		3.46E+01	±	4.11E+01	5.48E+01
FE-59		2.43E+00	±	7.56E+01	1.02E+02
K-40	+	1.33E+04	±	9.30E+02	3.21E+02
MN-54		-4.89E+00	±	2.77E+01	3.88E+01
ZN-65		-4.59E+01	±	9.30E+01	1.56E+02
ZRNB-95		-3.64E+01	±	6.23E+01	8.44E+01

Location and Date		Station 8		6/3/2025	
Nuclide	**RQ**	**Activity**		**Error**	**MDA**
BALA140		-3.54E+01	±	5.34E+01	6.67E+01
BE-7		2.99E+01	±	2.82E+02	4.05E+02
BI-214	+	6.75E+02	±	9.29E+01	7.95E+01
CO-58		-2.34E+01	±	3.91E+01	5.30E+01
CO-60		7.02E-01	±	3.05E+01	4.24E+01
CR-51		-1.62E+02	±	3.12E+02	4.50E+02
CS-134		-2.86E+00	±	5.97E+01	1.01E+02
CS-137		4.18E+01	±	5.01E+01	6.68E+01
FE-59		2.51E+01	±	9.75E+01	1.29E+02
K-40	+	1.84E+04	±	1.19E+03	3.43E+02
MN-54		-9.17E+00	±	3.76E+01	5.21E+01
ZN-65		-6.11E+01	±	1.22E+02	2.04E+02
ZRNB-95		-3.99E+00	±	7.02E+01	9.80E+01

Location and Date		Station 48		6/3/2025	
Nuclide	**RQ**	**Activity**		**Error**	**MDA**
BALA140		2.13E+00	±	3.50E+01	4.78E+01
BE-7		2.17E+02	±	2.93E+02	4.06E+02
BI-214	+	8.84E+02	±	1.07E+02	8.88E+01
CO-58		-4.90E+00	±	3.46E+01	4.87E+01
CO-60		-5.49E+00	±	3.64E+01	5.00E+01
CR-51		-1.19E+02	±	3.08E+02	4.47E+02
CS-134		1.66E+01	±	6.75E+01	1.13E+02
CS-137		1.24E+01	±	4.82E+01	6.64E+01
FE-59		3.82E+01	±	9.08E+01	1.19E+02
K-40	+	1.70E+04	±	1.18E+03	3.81E+02
MN-54		3.43E+01	±	2.99E+01	3.90E+01
ZN-65		-1.39E+01	±	1.02E+02	1.75E+02
ZRNB-95		1.71E+01	±	6.74E+01	9.36E+01

Location and Date		Station 9A		6/3/2025	
Nuclide	**RQ**	**Activity**		**Error**	**MDA**
BALA140		-2.81E+01	±	4.53E+01	5.71E+01
BE-7		-5.35E+01	±	2.95E+02	4.20E+02
BI-214	+	5.37E+02	±	9.48E+01	8.98E+01
CO-58		6.67E+00	±	2.50E+01	3.54E+01
CO-60		9.76E-01	±	3.29E+01	4.52E+01
CR-51		-6.25E+01	±	2.70E+02	3.96E+02
CS-134		-1.85E+01	±	5.67E+01	9.49E+01
CS-137		4.54E+01	±	4.07E+01	5.34E+01
FE-59		3.47E+01	±	6.71E+01	8.84E+01
K-40	+	1.21E+04	±	9.36E+02	3.49E+02
MN-54		4.44E+00	±	2.82E+01	3.99E+01
ZN-65		-4.55E+01	±	9.57E+01	1.61E+02
ZRNB-95		1.93E+01	±	5.67E+01	7.85E+01

RQ = Results Qualifier. If blank, result is less than detection limit. If "+", result is above detection limit.

TABLE A-8.2

GAMMA SPECTROMETRY RESULTS OF SOIL - SUMMARY

Results in pCi/kilogram

Nuclide		Average Activity	Activity Low	Activity High	Average MDA	Number of Samples	Number of Positive IDs
BALA140	Ind	-1.20E+01	-3.54E+01	6.12E+00	5.06E+01	4	0
BALA140	Cntl	-2.81E+01	-2.81E+01	-2.81E+01	5.71E+01	1	0
BE-7	Ind	9.74E+01	-4.28E+01	2.17E+02	3.78E+02	4	0
BE-7	Cntl	-5.35E+01	-5.35E+01	-5.35E+01	4.20E+02	1	0
BI-214	Ind	6.29E+02	4.35E+02	8.84E+02	7.67E+01	4	4
BI-214	Cntl	5.37E+02	5.37E+02	5.37E+02	8.98E+01	1	1
CO-58	Ind	-3.19E+00	-2.34E+01	8.77E+00	4.36E+01	4	0
CO-58	Cntl	6.67E+00	6.67E+00	6.67E+00	3.54E+01	1	0
CO-60	Ind	-3.75E-01	-5.49E+00	2.96E+00	4.14E+01	4	0
CO-60	Cntl	9.76E-01	9.76E-01	9.76E-01	4.52E+01	1	0
CR-51	Ind	-3.86E+01	-1.62E+02	8.46E+01	3.87E+02	4	0
CR-51	Cntl	-6.25E+01	-6.25E+01	-6.25E+01	3.96E+02	1	0
CS-134	Ind	3.53E+00	-6.74E+00	1.66E+01	9.38E+01	4	0
CS-134	Cntl	-1.85E+01	-1.85E+01	-1.85E+01	9.49E+01	1	0
CS-137	Ind	3.27E+01	1.24E+01	4.22E+01	5.88E+01	4	0
CS-137	Cntl	4.54E+01	4.54E+01	4.54E+01	5.34E+01	1	0
FE-59	Ind	2.66E+01	2.43E+00	4.05E+01	1.14E+02	4	0
FE-59	Cntl	3.47E+01	3.47E+01	3.47E+01	8.84E+01	1	0
K-40	Ind	1.55E+04	1.33E+04	1.84E+04	3.47E+02	4	4
K-40	Cntl	1.21E+04	1.21E+04	1.21E+04	3.49E+02	1	1
MN-54	Ind	9.11E+00	-9.17E+00	3.43E+01	4.16E+01	4	0
MN-54	Cntl	4.44E+00	4.44E+00	4.44E+00	3.99E+01	1	0
ZN-65	Ind	-4.01E+01	-6.11E+01	-1.39E+01	1.70E+02	4	0
ZN-65	Cntl	-4.55E+01	-4.55E+01	-4.55E+01	1.61E+02	1	0
ZRNB-95	Ind	-9.21E+00	-3.64E+01	1.71E+01	8.75E+01	4	0
ZRNB-95	Cntl	1.93E+01	1.93E+01	1.93E+01	7.85E+01	1	0

Ind = Indicator Stations Cntl = Control Stations

TABLE A-9.1

GAMMA SPECTROMETRY RESULTS OF SEDIMENT

Results in pCi/kilogram dry material

Station 34 Downstream Indicator

Location & Date		Station 34	3/19/2025	
Nuclide	**RQ**	**Activity**	**Error**	**MDA**
BALA140		-1.86E+01 ±	4.61E+01	5.67E+01
BE-7		-5.19E+01 ±	2.71E+02	3.74E+02
BI-214	+	4.33E+02 ±	7.97E+01	7.86E+01
CO-58		-1.12E+01 ±	3.41E+01	4.44E+01
CO-60		-2.76E+01 ±	4.26E+01	5.17E+01
CR-51		1.30E+02 ±	2.56E+02	3.58E+02
CS-134		-2.05E+01 ±	5.25E+01	8.78E+01
CS-137	+	1.57E+02 ±	4.01E+01	3.69E+01
FE-59		-4.29E+01 ±	1.12E+02	1.37E+02
K-40	+	1.05E+04 ±	8.43E+02	3.86E+02
MN-54		-4.22E+00 ±	3.35E+01	4.42E+01
ZN-65		-2.65E+01 ±	8.64E+01	1.09E+02
ZRNB-95		2.35E+01 ±	5.42E+01	7.24E+01

Location & Date		Station 34	10/16/2025	
Nuclide	**RQ**	**Activity**	**Error**	**MDA**
BALA140		-2.97E+01 ±	6.48E+01	8.10E+01
BE-7		2.48E+02 ±	3.11E+02	4.30E+02
BI-214	+	5.47E+02 ±	1.17E+02	1.17E+02
CO-58		3.05E+00 ±	3.95E+01	5.42E+01
CO-60		2.20E+01 ±	3.50E+01	4.45E+01
CR-51		1.16E+02 ±	3.37E+02	4.91E+02
CS-134		2.03E+01 ±	6.28E+01	1.05E+02
CS-137	+	8.02E+01 ±	3.81E+01	4.58E+01
FE-59		-7.14E+00 ±	1.09E+02	1.43E+02
K-40	+	1.42E+04 ±	1.15E+03	5.06E+02
MN-54		2.63E+01 ±	3.92E+01	5.15E+01
ZN-65		-8.40E+00 ±	1.05E+02	1.81E+02
ZRNB-95		7.26E+00 ±	6.32E+01	8.94E+01

Station 33 Upstream Control

Location & Date		Station 33	3/19/2025	
Nuclide	**RQ**	**Activity**	**Error**	**MDA**
BALA140		4.86E+00 ±	3.47E+00	1.28E+01
BE-7		1.76E+02 ±	2.61E+02	3.51E+02
BI-214	+	5.94E+02 ±	8.12E+01	7.18E+01
CO-58		-1.88E+01 ±	3.72E+01	4.76E+01
CO-60		1.46E+01 ±	3.11E+01	3.85E+01
CR-51		-3.21E+01 ±	2.93E+02	4.15E+02
CS-134		1.01E+01 ±	4.93E+01	8.27E+01
CS-137		0.00E+00 ±	2.52E+01	3.91E+01
FE-59		2.92E+01 ±	7.87E+01	9.78E+01
K-40	+	1.37E+04 ±	8.97E+02	3.12E+02
MN-54		4.44E+00 ±	3.09E+01	4.05E+01
ZN-65		-1.97E+01 ±	8.74E+01	1.48E+02
ZRNB-95		-1.23E+01 ±	5.97E+01	8.00E+01

Location & Date		Station 33	10/16/2025	
Nuclide	**RQ**	**Activity**	**Error**	**MDA**
BALA140		-8.67E+00 ±	5.07E+01	6.65E+01
BE-7		2.99E+02 ±	3.14E+02	4.30E+02
BI-214	+	5.43E+02 ±	1.06E+02	1.00E+02
CO-58		-6.20E+00 ±	3.82E+01	5.23E+01
CO-60		2.97E+00 ±	4.10E+01	5.43E+01
CR-51		1.28E+02 ±	3.22E+02	4.69E+02
CS-134		-2.14E+01 ±	6.33E+01	1.06E+02
CS-137		4.02E+01 ±	5.57E+01	7.47E+01
FE-59		1.36E+01 ±	1.06E+02	1.39E+02
K-40	+	1.44E+04 ±	1.16E+03	4.84E+02
MN-54		-1.24E+01 ±	4.55E+01	6.11E+01
ZN-65		-7.64E+01 ±	1.47E+02	1.87E+02
ZRNB-95		-9.84E+00 ±	7.41E+01	1.04E+02

RQ = Results Qualifier. If blank, result is less than detection limit. If "+", result is above detection limit.

TABLE A-9.2

GAMMA SPECTROMETRY RESULTS OF SEDIMENT - SUMMARY

Results in pCi/kilogram dry material

Nuclide		Average Activity	Activity Low	Activity High	Average MDA	Number of Samples	Number of Positive IDs
BALA140	Ind	-2.41E+01	-2.97E+01	-1.86E+01	6.88E+01	2	0
BALA140	Cntl	-1.90E+00	-8.67E+00	4.86E+00	3.97E+01	2	0
BE-7	Ind	9.82E+01	-5.19E+01	2.48E+02	4.02E+02	2	0
BE-7	Cntl	2.38E+02	1.76E+02	2.99E+02	3.90E+02	2	0
BI-214	Ind	4.90E+02	4.33E+02	5.47E+02	9.75E+01	2	2
BI-214	Cntl	5.68E+02	5.43E+02	5.94E+02	8.61E+01	2	2
CO-58	Ind	-4.05E+00	-1.12E+01	3.05E+00	4.93E+01	2	0
CO-58	Cntl	-1.25E+01	-1.88E+01	-6.20E+00	5.00E+01	2	0
CO-60	Ind	-2.81E+00	-2.76E+01	2.20E+01	4.81E+01	2	0
CO-60	Cntl	8.81E+00	2.97E+00	1.46E+01	4.64E+01	2	0
CR-51	Ind	1.23E+02	1.16E+02	1.30E+02	4.25E+02	2	0
CR-51	Cntl	4.81E+01	-3.21E+01	1.28E+02	4.42E+02	2	0
CS-134	Ind	-9.86E-02	-2.05E+01	2.03E+01	9.65E+01	2	0
CS-134	Cntl	-5.67E+00	-2.14E+01	1.01E+01	9.44E+01	2	0
CS-137	Ind	1.18E+02	8.02E+01	1.57E+02	4.13E+01	2	2
CS-137	Cntl	2.01E+01	0.00E+00	4.02E+01	5.69E+01	2	0
FE-59	Ind	-2.50E+01	-4.29E+01	-7.14E+00	1.40E+02	2	0
FE-59	Cntl	2.14E+01	1.36E+01	2.92E+01	1.18E+02	2	0
K-40	Ind	1.24E+04	1.05E+04	1.42E+04	4.46E+02	2	2
K-40	Cntl	1.41E+04	1.37E+04	1.44E+04	3.98E+02	2	2
MN-54	Ind	1.10E+01	-4.22E+00	2.63E+01	4.78E+01	2	0
MN-54	Cntl	-3.97E+00	-1.24E+01	4.44E+00	5.08E+01	2	0
ZN-65	Ind	-1.74E+01	-2.65E+01	-8.40E+00	1.45E+02	2	0
ZN-65	Cntl	-4.80E+01	-7.64E+01	-1.97E+01	1.68E+02	2	0
ZRNB-95	Ind	1.54E+01	7.26E+00	2.35E+01	8.09E+01	2	0
ZRNB-95	Cntl	-1.11E+01	-1.23E+01	-9.84E+00	9.19E+01	2	0

Ind = Indicator Stations Cntl = Control Stations

TABLE A-10.1

GAMMA SPECTROMETRY RESULTS OF FISH

Station 30 Columbia River - Station 38 Snake River

Results in pCi/kilogram (wet)

Location & Species	Collection Date	Nuclide	RQ	Activity		Error	MDA
Bass	07/11/25	Bi-214		-5.62E+01	±	7.81E+01	1.27E+02
Station 30		CO-58		3.76E+00	±	3.84E+01	5.55E+01
Indicator		CO-60		8.62E+00	±	3.50E+01	4.99E+01
		CS-134		1.03E+01	±	3.37E+01	4.87E+01
		CS-137		2.29E+01	±	4.61E+01	6.53E+01
		FE-59		-1.02E+01	±	8.97E+01	1.27E+02
		K-40	+	5.79E+03	±	8.09E+02	5.50E+02
		MN-54		0.00E+00	±	1.76E+01	5.10E+01
		ZN-65		-2.76E+01	±	1.00E+02	1.37E+02
		ZRNB-95		-2.31E+01	±	7.19E+01	1.01E+02
Walleye	07/11/25	Bi-214		5.13E+01	±	7.24E+01	1.02E+02
Station 30		CO-58		-1.46E+01	±	3.40E+01	4.57E+01
Indicator		CO-60		-2.87E+01	±	4.44E+01	5.56E+01
		CS-134		-1.40E+01	±	3.25E+01	4.45E+01
		CS-137		1.83E+01	±	3.44E+01	4.70E+01
		FE-59		4.59E+01	±	8.04E+01	1.03E+02
		K-40	+	3.37E+03	±	5.61E+02	3.93E+02
		MN-54		1.24E+00	±	3.13E+01	4.34E+01
		ZN-65		-2.64E+01	±	7.39E+01	9.74E+01
		ZRNB-95		-3.64E+01	±	6.60E+01	8.76E+01
Salmon	09/16/25	Bi-214		2.42E+01	±	4.55E+01	6.64E+01
Station 30		CO-58		-3.23E+00	±	1.93E+01	2.74E+01
Indicator		CO-60		-5.84E+00	±	2.01E+01	2.84E+01
		CS-134		-2.30E+00	±	1.90E+01	2.76E+01
		CS-137		2.53E+01	±	2.10E+01	2.82E+01
		FE-59		1.58E+01	±	4.27E+01	5.78E+01
		K-40	+	4.06E+03	±	4.66E+02	2.85E+02
		MN-54		5.47E+00	±	1.70E+01	2.40E+01
		ZN-65		-1.96E+01	±	5.18E+01	6.97E+01
		ZRNB-95		5.62E+00	±	3.26E+01	4.62E+01

RQ = Results Qualifier. If blank, result is less than detection limit. If "+", result is above detection limit.

TABLE A-10.1

GAMMA SPECTROMETRY RESULTS OF FISH

Station 30 Columbia River - Station 38 Snake River

Results in pCi/kilogram (wet)

Location & Species	Collection Date	Nuclide	RQ	Activity		Error	MDA
Bass	07/04/25	Bi-214		-5.15E+01	±	8.80E+01	1.35E+02
Station 38		CO-58		-3.15E+01	±	5.79E+01	7.68E+01
Control		CO-60		-3.74E+00	±	4.22E+01	5.69E+01
		CS-134		-5.61E+00	±	3.96E+01	5.57E+01
		CS-137		-1.02E+01	±	4.84E+01	6.77E+01
		FE-59		2.72E+01	±	1.41E+02	1.87E+02
		K-40	+	4.34E+03	±	7.76E+02	5.63E+02
		MN-54		-2.46E+00	±	3.98E+01	5.56E+01
		ZN-65		4.02E+01	±	9.23E+01	1.22E+02
		ZRNB-95		-2.49E+01	±	9.16E+01	1.25E+02
Walleye	07/04/25	Bi-214		5.27E+01	±	8.72E+01	1.21E+02
Station 38		CO-58		1.08E+01	±	3.29E+01	4.49E+01
Control		CO-60		2.64E+00	±	3.63E+01	4.82E+01
		CS-134		-1.89E+01	±	4.38E+01	5.95E+01
		CS-137		-2.39E+00	±	3.68E+01	5.18E+01
		FE-59		2.71E+01	±	9.29E+01	1.22E+02
		K-40	+	3.90E+03	±	5.35E+02	2.68E+02
		MN-54		8.68E+00	±	3.19E+01	4.34E+01
		ZN-65		2.77E+01	±	4.54E+01	6.00E+01
		ZRNB-95		-2.31E+01	±	5.61E+01	7.61E+01
Salmon	10/22/25	Bi-214		-1.15E+00	±	2.11E+01	3.17E+01
Station 38		CO-58		-1.98E+00	±	1.04E+01	1.45E+01
Control		CO-60		5.19E+00	±	9.90E+00	1.30E+01
		CS-134		4.39E+00	±	7.90E+00	1.09E+01
		CS-137		5.57E+00	±	1.12E+01	1.55E+01
		FE-59		5.28E+00	±	2.94E+01	3.96E+01
		K-40	+	3.64E+03	±	3.57E+02	1.61E+02
		MN-54		2.45E+00	±	8.43E+00	1.18E+01
		ZN-65		-1.48E+01	±	3.12E+01	4.08E+01
		ZRNB-95		-1.27E+01	±	2.10E+01	2.88E+01

RQ = Results Qualifier. If blank, result is less than detection limit. If "+", result is above detection limit.

TABLE A-10.2

GAMMA SPECTROMETRY RESULTS OF FISH - SUMMARY

Results in pCi/kilogram (wet)

Nuclide		Average Activity	Activity Low	Activity High	Average MDA	Number of Samples	Number of Positive IDs
Bi-214	Ind	6.43E+00	-5.62E+01	5.13E+01	9.82E+01	3	0
Bi-214	Cntl	3.71E-02	-5.15E+01	5.27E+01	9.59E+01	3	0
CO-58	Ind	-4.67E+00	-1.46E+01	3.76E+00	4.29E+01	3	0
CO-58	Cntl	-7.56E+00	-3.15E+01	1.08E+01	4.54E+01	3	0
CO-60	Ind	-8.62E+00	-2.87E+01	8.62E+00	4.46E+01	3	0
CO-60	Cntl	1.36E+00	-3.74E+00	5.19E+00	3.94E+01	3	0
CS-134	Ind	-1.97E+00	-1.40E+01	1.03E+01	4.03E+01	3	0
CS-134	Cntl	-6.70E+00	-1.89E+01	4.39E+00	4.20E+01	3	0
CS-137	Ind	2.22E+01	1.83E+01	2.53E+01	4.68E+01	3	0
CS-137	Cntl	-2.33E+00	-1.02E+01	5.57E+00	4.50E+01	3	0
FE-59	Ind	1.72E+01	-1.02E+01	4.59E+01	9.61E+01	3	0
FE-59	Cntl	1.99E+01	5.28E+00	2.72E+01	1.16E+02	3	0
K-40	Ind	4.41E+03	3.37E+03	5.79E+03	4.09E+02	3	3
K-40	Cntl	3.96E+03	3.64E+03	4.34E+03	3.31E+02	3	3
MN-54	Ind	2.24E+00	0.00E+00	5.47E+00	3.94E+01	3	0
MN-54	Cntl	2.89E+00	-2.46E+00	8.68E+00	3.69E+01	3	0
ZN-65	Ind	-2.45E+01	-2.76E+01	-1.96E+01	1.01E+02	3	0
ZN-65	Cntl	1.77E+01	-1.48E+01	4.02E+01	7.42E+01	3	0
ZRNB-95	Ind	-1.80E+01	-3.64E+01	5.62E+00	7.84E+01	3	0
ZRNB-95	Cntl	-2.02E+01	-2.49E+01	-1.27E+01	7.65E+01	3	0

RQ = Results Qualifier. If blank, result is less than detection limit. If "+", result is above detection limit.

TABLE A-11.1

IODINE-131 IN MILK

Results in pCi/liter, decay corrected to sample collection time

Collection Date	Stations 36 Indicator RQ	I-131 Activity	Error	I-131 MDA	Station 9B Control RQ	I-131 Activity	Error	I-131 MDA
01/14/25		-3.89E-02	± 3.10E-01	3.63E-01		-7.72E-03	± 2.87E-05	4.35E-01
02/11/25		1.49E-01	± 2.77E-01	3.97E-01		1.15E-01	± 3.52E-04	4.41E-01
03/11/25		-7.45E-02	± 3.37E-01	3.92E-01		1.49E-01	± 5.28E-04	4.12E-01
04/22/25		-2.48E-01	± 4.72E-01	6.52E-01		-3.80E-02	± 1.82E-04	6.70E-01
04/08/25		2.11E-01	± 3.08E-01	3.56E-01		-5.91E-02	± 2.13E-04	4.21E-01
05/06/25		5.35E-02	± 2.73E-01	3.95E-01		-7.65E-02	± 2.42E-04	4.57E-01
05/20/25		-4.58E-02	± 3.56E-01	4.16E-01		2.73E-01	± 1.03E-03	4.36E-01
06/10/25		1.19E-01	± 3.21E-01	4.62E-01		-4.75E-02	± 1.80E-04	5.49E-01
06/24/25		2.39E-01	± 3.43E-01	3.96E-01		2.14E-01	± 7.86E-04	4.24E-01
07/08/25		-1.56E-02	± 3.60E-01	4.21E-01		1.96E-01	± 7.25E-04	4.29E-01
07/22/25		-8.75E-02	± 3.35E-01	4.83E-01		-1.65E-02	± 5.70E-05	5.01E-01
08/05/25		-5.52E-02	± 3.21E-01	4.64E-01		2.95E-02	± 1.04E-04	5.10E-01
08/19/25		-7.48E-02	± 3.36E-01	4.85E-01		-6.74E-02	± 2.37E-04	5.07E-01
09/09/25		2.44E-01	± 4.30E-01	5.94E-01		0.00E+00	± 4.23E-01	6.96E-01
09/23/25		1.01E-01	± 3.25E-01	4.69E-01		1.89E-01	± 6.43E-04	4.88E-01
10/07/25		-1.17E-01	± 3.35E-01	4.82E-01		5.21E-03	± 2.62E-05	7.30E-01
11/04/25		-9.67E-02	± 4.63E-01	6.44E-01		1.20E-01	± 5.98E-04	6.91E-01
12/02/25		0.00E+00	± 4.70E-03	8.79E-03		2.31E-01	± 1.08E-03	6.45E-01

TABLE A-11.2

IODINE-131 IN MILK - SUMMARY

Results in pCi/liter, decay corrected to sample collection time

Location	Average Activity	Activity Low	Activity High	Average MDA	Number Samples	Number Positive IDs
Indicator- ST 36	1.46E-02	-2.48E-01	2.44E-01	4.38E-01	18	0
Control - ST- 9B	6.72E-02	-7.65E-02	2.73E-01	5.25E-01	18	0

RQ = Results Qualifier. If blank, result is less than detection limit. If "+", result is above detection limit.

TABLE A-12.1

GAMMA SPECTROMETRY RESULTS OF MILK

STATION 36 - Indicator

Results in pCi/liter

Collection Date: 1/14/2025

Nuclide	RQ	Activity		Error	MDA
BA-133		-1.46E+00	±	7.10E+00	1.05E+01
BALA140		-4.99E+00	±	7.66E+00	9.70E+00
BE-7		2.81E-01	±	3.67E+01	5.40E+01
CO-60		-3.27E-01	±	5.25E+00	7.57E+00
CS-134		-3.59E+00	±	6.45E+00	8.75E+00
CS-137		6.40E-01	±	4.63E+00	6.63E+00
FE-59		-1.40E-01	±	1.37E+01	1.89E+01
K-40	+	1.40E+03	±	1.44E+02	8.28E+01
MN-54		2.58E+00	±	4.22E+00	5.65E+00
ZN-65		-9.52E+00	±	1.55E+01	1.99E+01
ZRNB-95		2.59E+00	±	8.67E+00	1.22E+01

Collection Date: 2/11/2025

Nuclide	RQ	Activity		Error	MDA
BA-133		-3.12E+00	±	6.05E+00	8.42E+00
BALA140		1.48E+00	±	6.03E+00	7.65E+00
BE-7		1.73E+00	±	3.99E+01	5.50E+01
CO-60		2.28E-01	±	5.89E+00	7.63E+00
CS-134		-5.35E-01	±	4.45E+00	6.14E+00
CS-137		1.58E+00	±	4.23E+00	5.82E+00
FE-59		0.00E+00	±	1.81E+00	1.63E+01
K-40	+	9.03E+02	±	1.32E+02	1.67E+02
MN-54		-1.28E+00	±	5.06E+00	6.77E+00
ZN-65		1.64E+00	±	1.02E+01	1.35E+01
ZRNB-95		4.79E+00	±	7.18E+00	9.43E+00

Collection Date: 3/11/2025

Nuclide	RQ	Activity		Error	MDA
BA-133		2.45E+00	±	5.42E+00	9.04E+00
BALA140		-4.74E-01	±	4.37E+00	5.77E+00
BE-7		2.52E+01	±	2.75E+01	3.77E+01
CO-60		-1.06E+00	±	4.74E+00	6.45E+00
CS-134		-2.75E+00	±	4.90E+00	6.59E+00
CS-137		-2.54E+00	±	5.05E+00	6.83E+00
FE-59		-5.05E+00	±	1.21E+01	1.56E+01
K-40	+	1.42E+03	±	1.14E+02	6.73E+01
MN-54		2.32E+00	±	3.72E+00	4.90E+00
ZN-65		-4.40E+00	±	1.05E+01	1.36E+01
ZRNB-95		-3.03E+00	±	6.80E+00	9.28E+00

Collection Date: 4/8/2025

Nuclide	RQ	Activity		Error	MDA
BA-133		-3.20E+00	±	6.60E+00	9.25E+00
BALA140		-3.23E+00	±	7.67E+00	9.38E+00
BE-7		2.09E+01	±	3.58E+01	4.88E+01
CO-60		-2.10E+00	±	6.10E+00	7.67E+00
CS-134		1.06E+00	±	3.89E+00	5.44E+00
CS-137		1.85E+00	±	5.19E+00	7.20E+00
FE-59		-4.81E+00	±	1.52E+01	1.96E+01
K-40	+	1.36E+03	±	1.41E+02	8.99E+01
MN-54		2.58E-01	±	4.35E+00	6.05E+00
ZN-65		8.90E-02	±	1.17E+01	1.54E+01
ZRNB-95		-5.85E+00	±	9.61E+00	1.27E+01

Collection Date: 4/22/2025

Nuclide	RQ	Activity		Error	MDA
BA-133		-2.80E+00	±	7.39E+00	1.24E+01
BALA140		9.71E-01	±	4.68E+00	6.10E+00
BE-7		-2.46E+00	±	3.29E+01	4.66E+01
CO-60		1.54E-01	±	5.59E+00	7.28E+00
CS-134		-1.51E+00	±	4.62E+00	6.39E+00
CS-137		-1.67E+00	±	5.46E+00	7.58E+00
FE-59		-2.94E+00	±	1.38E+01	1.80E+01
K-40	+	1.34E+03	±	1.36E+02	8.27E+01
MN-54		1.03E+00	±	5.02E+00	6.85E+00
ZN-65		-1.07E+00	±	1.22E+01	1.59E+01
ZRNB-95		3.24E+00	±	6.51E+00	8.80E+00

Collection Date: 5/6/2025

Nuclide	RQ	Activity		Error	MDA
BA-133		-3.33E+00	±	7.38E+00	1.03E+01
BALA140		1.61E+00	±	3.96E+00	5.12E+00
BE-7		-1.23E+00	±	3.52E+01	4.98E+01
CO-60		2.31E+00	±	4.67E+00	5.90E+00
CS-134		-3.02E-01	±	4.98E+00	6.98E+00
CS-137		-1.48E+00	±	5.97E+00	8.28E+00
FE-59		-6.57E+00	±	1.53E+01	1.96E+01
K-40	+	1.31E+03	±	1.31E+02	7.68E+01
MN-54		-4.80E-01	±	5.12E+00	7.03E+00
ZN-65		-8.10E+00	±	1.39E+01	1.74E+01
ZRNB-95		1.90E+00	±	8.13E+00	1.11E+01

RQ = Results Qualifier. If blank, result is less than detection limit. If "+", result is above detection limit.

TABLE A-12.1

GAMMA SPECTROMETRY RESULTS OF MILK

STATION 36 - Indicator

Results in pCi/liter

Collection Date: 5/20/2025

Nuclide	RQ	Activity		Error	MDA
BA-133		2.49E+00	±	5.43E+00	7.58E+00
BALA140		1.20E+00	±	4.25E+00	5.50E+00
BE-7		1.77E+01	±	3.13E+01	4.37E+01
CO-60		3.04E+00	±	4.78E+00	6.01E+00
CS-134		-2.63E+00	±	4.58E+00	6.18E+00
CS-137		-1.17E+00	±	4.85E+00	6.69E+00
FE-59		2.84E+00	±	1.19E+01	1.54E+01
K-40	+	1.27E+03	±	1.11E+02	6.52E+01
MN-54		-1.58E-01	±	4.78E+00	6.48E+00
ZN-65		-1.94E+00	±	1.13E+01	1.48E+01
ZRNB-95		-2.25E+00	±	7.90E+00	1.09E+01

Collection Date: 6/10/2025

Nuclide	RQ	Activity		Error	MDA
BA-133		-2.75E+00	±	5.99E+00	8.43E+00
BALA140		4.90E-01	±	4.16E+00	5.65E+00
BE-7		-2.37E+01	±	4.16E+01	5.82E+01
CO-60		2.09E+00	±	3.53E+00	4.59E+00
CS-134		-2.53E+00	±	5.44E+00	7.42E+00
CS-137		-2.02E+00	±	5.58E+00	7.70E+00
FE-59		1.62E+00	±	1.47E+01	1.92E+01
K-40	+	1.38E+03	±	1.33E+02	7.37E+01
MN-54		-2.31E+00	±	5.22E+00	6.98E+00
ZN-65		-2.03E+00	±	1.16E+01	1.54E+01
ZRNB-95		-2.81E+00	±	8.08E+00	1.09E+01

Collection Date: 6/24/2025

Nuclide	RQ	Activity		Error	MDA
BA-133		-2.73E+00	±	8.43E+00	1.42E+01
BALA140		1.79E+00	±	3.43E+00	4.70E+00
BE-7		-6.73E+00	±	4.38E+01	6.33E+01
CO-60		7.81E-01	±	4.08E+00	6.00E+00
CS-134		1.12E+00	±	5.32E+00	7.66E+00
CS-137		-3.32E+00	±	6.44E+00	8.82E+00
FE-59		4.31E+00	±	1.61E+01	2.15E+01
K-40	+	1.50E+03	±	1.50E+02	8.14E+01
MN-54		-6.69E-01	±	5.66E+00	8.03E+00
ZN-65		-7.87E+00	±	1.54E+01	2.05E+01
ZRNB-95		-4.24E+00	±	1.06E+01	1.46E+01

Collection Date: 7/8/2025

Nuclide	RQ	Activity		Error	MDA
BA-133		-3.46E+00	±	7.73E+00	1.09E+01
BALA140		-4.64E-01	±	6.02E+00	8.08E+00
BE-7		2.03E+00	±	3.42E+01	5.05E+01
CO-60		2.75E+00	±	4.82E+00	6.23E+00
CS-134		-3.04E+00	±	5.55E+00	7.57E+00
CS-137		-8.81E-01	±	5.61E+00	7.93E+00
FE-59		1.69E+00	±	1.28E+01	1.71E+01
K-40	+	1.30E+03	±	1.39E+02	7.79E+01
MN-54		-4.85E-01	±	4.80E+00	6.69E+00
ZN-65		-2.55E+00	±	1.29E+01	1.73E+01
ZRNB-95		0.00E+00	±	2.00E+00	1.10E+01

Collection Date: 7/22/2025

Nuclide	RQ	Activity		Error	MDA
BA-133		7.29E-01	±	5.94E+00	8.58E+00
BALA140		3.07E-01	±	5.95E+00	8.02E+00
BE-7		4.31E+01	±	3.46E+01	4.61E+01
CO-60		-1.40E+00	±	7.51E+00	9.78E+00
CS-134		-1.07E+00	±	5.20E+00	7.26E+00
CS-137		3.09E+00	±	6.25E+00	8.57E+00
FE-59		8.42E-01	±	1.46E+01	1.94E+01
K-40	+	1.41E+03	±	1.49E+02	8.82E+01
MN-54		1.37E+00	±	4.43E+00	6.11E+00
ZN-65		-2.45E+00	±	1.12E+01	1.52E+01
ZRNB-95		-2.27E-01	±	8.88E+00	1.24E+01

Collection Date: 8/5/2025

Nuclide	RQ	Activity		Error	MDA
BA-133		-3.61E+00	±	7.91E+00	1.11E+01
BALA140		1.68E+00	±	4.44E+00	5.92E+00
BE-7		-2.61E+01	±	4.60E+01	6.45E+01
CO-60		5.50E-01	±	5.95E+00	7.97E+00
CS-134		-3.25E+00	±	5.67E+00	7.71E+00
CS-137		8.81E-01	±	5.39E+00	7.63E+00
FE-59		-2.66E+00	±	1.47E+01	1.94E+01
K-40	+	1.44E+03	±	1.50E+02	8.71E+01
MN-54		2.29E+00	±	5.35E+00	7.22E+00
ZN-65		-5.42E+00	±	1.37E+01	1.79E+01
ZRNB-95		-2.27E+00	±	9.68E+00	1.32E+01

RQ = Results Qualifier. If blank, result is less than detection limit. If "+", result is above detection limit.

TABLE A-12.1

GAMMA SPECTROMETRY RESULTS OF MILK

STATION 36 - Indicator

Results in pCi/liter

Collection Date: 8/19/2025

Nuclide	RQ	Activity		Error	MDA
BA-133		-3.09E+00	±	7.76E+00	1.09E+01
BALA140		-4.53E+00	±	7.70E+00	9.57E+00
BE-7		1.27E+01	±	3.69E+01	5.30E+01
CO-60		-1.34E+00	±	6.81E+00	8.93E+00
CS-134		-3.51E+00	±	6.09E+00	8.27E+00
CS-137		2.64E+00	±	5.69E+00	7.85E+00
FE-59		-2.80E+00	±	1.64E+01	2.15E+01
K-40	+	1.45E+03	±	1.51E+02	8.82E+01
MN-54		-4.10E+00	±	7.13E+00	9.41E+00
ZN-65		-1.01E+01	±	1.58E+01	2.03E+01
ZRNB-95		-5.17E+00	±	1.03E+01	1.37E+01

Collection Date: 9/9/2025

Nuclide	RQ	Activity		Error	MDA
BA-133		-3.25E+00	±	6.86E+00	9.65E+00
BALA140		6.18E-01	±	5.24E+00	7.13E+00
BE-7		-1.30E+01	±	4.22E+01	6.04E+01
CO-60		-1.16E+00	±	6.42E+00	8.46E+00
CS-134		-3.58E+00	±	6.48E+00	8.79E+00
CS-137		2.20E+00	±	5.76E+00	8.00E+00
FE-59		2.81E+00	±	1.18E+01	1.58E+01
K-40	+	1.22E+03	±	1.40E+02	8.82E+01
MN-54		4.41E+00	±	4.94E+00	6.41E+00
ZN-65		-4.15E+00	±	1.31E+01	1.73E+01
ZRNB-95		6.06E-01	±	8.58E+00	1.20E+01

Collection Date: 9/23/2025

Nuclide	RQ	Activity		Error	MDA
BA-133		-3.85E+00	±	8.63E+00	1.21E+01
BALA140		-4.57E+00	±	7.78E+00	9.67E+00
BE-7		-6.08E+00	±	3.65E+01	5.32E+01
CO-60		1.95E+00	±	5.67E+00	7.44E+00
CS-134		1.25E+00	±	4.85E+00	6.79E+00
CS-137		-3.70E+00	±	7.21E+00	9.83E+00
FE-59		6.33E+00	±	1.11E+01	1.43E+01
K-40	+	1.25E+03	±	1.42E+02	9.01E+01
MN-54		-6.61E-01	±	5.60E+00	7.71E+00
ZN-65		1.60E+00	±	1.18E+01	1.59E+01
ZRNB-95		3.79E+00	±	8.15E+00	1.10E+01

Collection Date: 10/7/2025

Nuclide	RQ	Activity		Error	MDA
BA-133		-2.51E+00	±	8.85E+00	1.49E+01
BALA140		-1.54E-01	±	5.14E+00	7.08E+00
BE-7		-1.39E+01	±	4.37E+01	6.25E+01
CO-60		2.14E+00	±	4.74E+00	6.23E+00
CS-134		-8.06E-01	±	7.05E+00	1.20E+01
CS-137		-3.79E+00	±	6.95E+00	9.47E+00
FE-59		8.28E+00	±	1.44E+01	1.83E+01
K-40	+	1.07E+03	±	1.32E+02	8.79E+01
MN-54		-3.66E+00	±	6.34E+00	8.39E+00
ZN-65		1.12E+00	±	1.22E+01	2.14E+01
ZRNB-95		6.28E+00	±	7.20E+00	9.37E+00

Collection Date: 11/4/2025

Nuclide	RQ	Activity		Error	MDA
BA-133		-3.15E+00	±	7.14E+00	1.04E+01
BALA140		7.04E-01	±	4.17E+00	5.95E+00
BE-7		4.06E+00	±	4.08E+01	5.93E+01
CO-60		-3.35E-01	±	7.18E+00	9.94E+00
CS-134		-2.88E+00	±	5.34E+00	7.52E+00
CS-137		2.89E+00	±	4.90E+00	6.72E+00
FE-59		-1.32E+01	±	2.05E+01	2.63E+01
K-40	+	1.43E+03	±	1.52E+02	9.22E+01
MN-54		-3.74E+00	±	6.20E+00	8.44E+00
ZN-65		2.15E+00	±	1.13E+01	1.56E+01
ZRNB-95		-3.44E+00	±	1.02E+01	1.41E+01

Collection Date: 12/2/2025

Nuclide	RQ	Activity		Error	MDA
BA-133		-3.16E+00	±	6.52E+00	9.06E+00
BALA140		8.11E-01	±	4.94E+00	6.38E+00
BE-7		3.24E+01	±	2.94E+01	3.99E+01
CO-60		-3.75E-02	±	4.74E+00	6.25E+00
CS-134		-2.74E+00	±	4.76E+00	6.43E+00
CS-137		-1.69E+00	±	4.59E+00	6.30E+00
FE-59		-1.03E+00	±	1.18E+01	1.54E+01
K-40	+	1.17E+03	±	1.13E+02	7.69E+01
MN-54		-8.44E-01	±	4.50E+00	6.07E+00
ZN-65		-1.36E+00	±	1.08E+01	1.42E+01
ZRNB-95		-1.13E+00	±	7.34E+00	1.02E+01

RQ = Results Qualifier. If blank, result is less than detection limit. If "+", result is above detection limit.

TABLE A-12.1

GAMMA SPECTROMETRY RESULTS OF MILK

STATION 9B - Control

Results in pCi/liter

Collection Date: 1/14/2025

Nuclide	RQ	Activity		Error	MDA
BA-133		-2.99E+00	±	6.99E+00	1.02E+01
BALA140		-1.37E+00	±	6.09E+00	8.24E+00
BE-7		-2.46E+01	±	4.49E+01	6.31E+01
CO-60		4.56E-01	±	5.73E+00	8.05E+00
CS-134		-4.12E+00	±	7.37E+00	9.96E+00
CS-137		1.07E+00	±	6.09E+00	8.53E+00
FE-59		4.07E+00	±	1.41E+01	1.90E+01
K-40	+	1.32E+03	±	1.43E+02	8.16E+01
MN-54		2.15E+00	±	4.83E+00	6.52E+00
ZN-65		-2.82E+00	±	1.46E+01	1.94E+01
ZRNB-95		-1.49E+00	±	8.61E+00	1.22E+01

Collection Date: 2/11/2025

Nuclide	RQ	Activity		Error	MDA
BA-133		-2.92E+00	±	6.04E+00	8.42E+00
BALA140		1.14E+00	±	7.00E+00	9.00E+00
BE-7		1.82E+00	±	3.93E+01	5.44E+01
CO-60		4.29E+00	±	4.54E+00	5.56E+00
CS-134		-6.44E-01	±	4.32E+00	5.97E+00
CS-137		-3.51E+00	±	5.70E+00	7.69E+00
FE-59		-3.47E+00	±	1.52E+01	1.94E+01
K-40	+	1.25E+03	±	1.18E+02	7.66E+01
MN-54		7.28E-01	±	5.08E+00	6.82E+00
ZN-65		-2.25E+00	±	1.09E+01	1.43E+01
ZRNB-95		-1.78E+00	±	8.23E+00	1.11E+01

Collection Date: 3/11/2025

Nuclide	RQ	Activity		Error	MDA
BA-133		-2.33E+00	±	5.01E+00	7.23E+00
BALA140		-1.12E+00	±	4.63E+00	6.05E+00
BE-7		-1.20E+01	±	3.04E+01	4.27E+01
CO-60		-4.99E-01	±	4.23E+00	5.84E+00
CS-134		-2.31E+00	±	4.58E+00	7.63E+00
CS-137		2.20E-01	±	3.88E+00	5.41E+00
FE-59		-4.98E+00	±	1.20E+01	1.55E+01
K-40	+	6.26E+02	±	1.32E+02	1.93E+02
MN-54		4.20E-01	±	3.32E+00	4.52E+00
ZN-65		-5.49E+00	±	1.14E+01	1.46E+01
ZRNB-95		1.53E+00	±	6.47E+00	8.95E+00

Collection Date: 4/8/2025

Nuclide	RQ	Activity		Error	MDA
BA-133		-3.50E+00	±	7.33E+00	1.03E+01
BALA140		3.42E-01	±	5.58E+00	7.30E+00
BE-7		-1.87E+01	±	4.20E+01	5.75E+01
CO-60		-8.71E-01	±	5.66E+00	7.28E+00
CS-134		3.03E-01	±	4.73E+00	6.64E+00
CS-137		-3.41E+00	±	5.97E+00	8.12E+00
FE-59		1.43E+00	±	1.08E+01	1.45E+01
K-40	+	1.31E+03	±	1.33E+02	7.89E+01
MN-54		2.96E-01	±	4.19E+00	5.84E+00
ZN-65		-2.14E+00	±	1.40E+01	1.80E+01
ZRNB-95		-1.09E+00	±	8.68E+00	1.19E+01

Collection Date: 4/22/2025

Nuclide	RQ	Activity		Error	MDA
BA-133		-3.54E+00	±	7.66E+00	1.07E+01
BALA140		1.64E+00	±	4.82E+00	6.17E+00
BE-7		-1.23E+00	±	3.91E+01	5.50E+01
CO-60		3.33E+00	±	4.36E+00	5.35E+00
CS-134		2.72E+00	±	4.22E+00	5.73E+00
CS-137		-3.49E+00	±	6.11E+00	8.30E+00
FE-59		8.08E+00	±	1.22E+01	1.54E+01
K-40	+	1.48E+03	±	1.38E+02	7.22E+01
MN-54		2.77E+00	±	4.71E+00	6.26E+00
ZN-65		1.43E+00	±	1.18E+01	1.54E+01
ZRNB-95		1.72E+00	±	7.60E+00	1.04E+01

Collection Date: 5/6/2025

Nuclide	RQ	Activity		Error	MDA
BA-133		-3.38E+00	±	7.45E+00	1.04E+01
BALA140		1.30E+00	±	4.76E+00	6.15E+00
BE-7		-4.93E+00	±	3.71E+01	5.20E+01
CO-60		1.74E+00	±	4.16E+00	5.35E+00
CS-134		-9.07E-01	±	5.19E+00	7.21E+00
CS-137		1.85E+00	±	4.58E+00	6.36E+00
FE-59		-5.89E-01	±	1.36E+01	1.81E+01
K-40	+	1.36E+03	±	1.30E+02	6.72E+01
MN-54		-1.18E+00	±	5.04E+00	6.85E+00
ZN-65		3.03E+00	±	1.15E+01	1.48E+01
ZRNB-95		-5.15E+00	±	9.81E+00	1.30E+01

RQ = Results Qualifier. If blank, result is less than detection limit. If "+", result is above detection limit.

TABLE A-12.1

GAMMA SPECTROMETRY RESULTS OF MILK

STATION 9B - Control

Results in pCi/liter

Collection Date: 5/20/2025

Nuclide	RQ	Activity		Error	MDA
BA-133		-3.26E+00	±	6.74E+00	9.37E+00
BALA140		1.94E+00	±	6.06E+00	7.62E+00
BE-7		-1.38E+01	±	3.73E+01	5.24E+01
CO-60		0.00E+00	±	2.57E+00	5.75E+00
CS-134		-1.79E+00	±	4.45E+00	6.06E+00
CS-137		-3.02E+00	±	5.18E+00	7.00E+00
FE-59		3.02E+00	±	1.02E+01	1.32E+01
K-40	+	1.09E+03	±	1.10E+02	7.76E+01
MN-54		7.92E-02	±	4.46E+00	6.07E+00
ZN-65		4.79E+00	±	8.42E+00	1.09E+01
ZRNB-95		9.04E-01	±	6.95E+00	9.73E+00

Collection Date: 6/10/2025

Nuclide	RQ	Activity		Error	MDA
BA-133		-2.76E+00	±	5.80E+00	8.16E+00
BALA140		1.35E+00	±	5.96E+00	7.76E+00
BE-7		1.17E+01	±	3.42E+01	4.89E+01
CO-60		-4.58E-01	±	5.30E+00	7.06E+00
CS-134		-3.30E+00	±	5.72E+00	7.74E+00
CS-137		-2.76E+00	±	5.85E+00	8.00E+00
FE-59		-2.61E+00	±	1.32E+01	1.73E+01
K-40	+	1.23E+03	±	1.27E+02	7.43E+01
MN-54		-1.47E-01	±	4.49E+00	6.24E+00
ZN-65		2.67E-01	±	1.23E+01	1.65E+01
ZRNB-95		-1.91E-01	±	8.79E+00	1.21E+01

Collection Date: 6/24/2025

Nuclide	RQ	Activity		Error	MDA
BA-133		-3.10E+00	±	6.64E+00	9.67E+00
BALA140		-8.23E-02	±	4.26E+00	6.26E+00
BE-7		3.52E+00	±	3.95E+01	5.76E+01
CO-60		-7.67E-01	±	5.73E+00	8.24E+00
CS-134		-1.77E+00	±	5.36E+00	7.66E+00
CS-137		-3.55E+00	±	6.96E+00	9.50E+00
FE-59		3.89E+00	±	1.53E+01	2.05E+01
K-40	+	1.17E+03	±	1.41E+02	9.62E+01
MN-54		6.70E-01	±	4.78E+00	6.85E+00
ZN-65		-5.72E+00	±	1.53E+01	2.05E+01
ZRNB-95		-2.71E+00	±	9.36E+00	1.31E+01

Collection Date: 7/8/2025

Nuclide	RQ	Activity		Error	MDA
BA-133		-1.54E+00	±	6.30E+00	9.01E+00
BALA140		-1.24E+00	±	6.10E+00	8.06E+00
BE-7		1.01E+01	±	3.77E+01	5.44E+01
CO-60		2.57E+00	±	5.74E+00	7.44E+00
CS-134		-3.25E+00	±	5.67E+00	7.71E+00
CS-137		6.61E-01	±	5.48E+00	7.78E+00
FE-59		0.00E+00	±	4.54E+00	2.15E+01
K-40	+	1.36E+03	±	1.47E+02	8.96E+01
MN-54		3.57E+00	±	3.37E+00	4.27E+00
ZN-65		4.90E+00	±	1.02E+01	1.35E+01
ZRNB-95		1.51E-01	±	8.88E+00	1.24E+01

Collection Date: 7/22/2025

Nuclide	RQ	Activity		Error	MDA
BA-133		-3.51E+00	±	8.01E+00	1.12E+01
BALA140		1.71E+00	±	4.53E+00	6.03E+00
BE-7		-1.88E+01	±	4.26E+01	6.04E+01
CO-60		-9.16E-01	±	5.10E+00	6.86E+00
CS-134		-1.61E+00	±	5.88E+00	8.13E+00
CS-137		1.76E+00	±	5.29E+00	7.40E+00
FE-59		4.22E+00	±	1.20E+01	1.58E+01
K-40	+	1.27E+03	±	1.36E+02	7.37E+01
MN-54		-1.45E+00	±	5.29E+00	7.22E+00
ZN-65		-8.20E+00	±	1.53E+01	1.97E+01
ZRNB-95		2.43E+00	±	7.22E+00	9.96E+00

Collection Date: 8/5/2025

Nuclide	RQ	Activity		Error	MDA
BA-133		-3.09E+00	±	7.24E+00	1.02E+01
BALA140		-3.01E+00	±	7.59E+00	9.63E+00
BE-7		-4.34E+00	±	3.72E+01	5.44E+01
CO-60		2.44E+00	±	4.23E+00	5.50E+00
CS-134		0.00E+00	±	0.00E+00	6.79E+00
CS-137		-1.76E+00	±	5.78E+00	8.07E+00
FE-59		-1.54E+00	±	1.37E+01	1.83E+01
K-40	+	1.36E+03	±	1.43E+02	7.93E+01
MN-54		1.59E+00	±	5.49E+00	7.47E+00
ZN-65		-4.15E+00	±	1.54E+01	2.03E+01
ZRNB-95		2.27E-01	±	8.54E+00	1.20E+01

RQ = Results Qualifier. If blank, result is less than detection limit. If "+", result is above detection limit.

TABLE A-12.1

GAMMA SPECTROMETRY RESULTS OF MILK

STATION 9B - Control

Results in pCi/liter

Collection Date: 8/19/2025

Nuclide	RQ	Activity	±	Error	MDA
BA-133		-3.36E+00	±	7.32E+00	1.03E+01
BALA140		-8.53E-01	±	6.08E+00	8.09E+00
BE-7		-1.94E+01	±	3.66E+01	5.19E+01
CO-60		9.77E-01	±	4.01E+00	5.50E+00
CS-134		-1.25E+00	±	4.98E+00	6.95E+00
CS-137		3.20E+00	±	5.79E+00	7.93E+00
FE-59		-3.09E+00	±	1.57E+01	2.06E+01
K-40	+	1.24E+03	±	1.44E+02	9.19E+01
MN-54		-4.14E+00	±	6.84E+00	9.02E+00
ZN-65		-1.70E+00	±	1.34E+01	1.79E+01
ZRNB-95		5.30E-01	±	7.02E+00	9.96E+00

Collection Date: 9/9/2025

Nuclide	RQ	Activity	±	Error	MDA
BA-133		-3.14E+00	±	7.36E+00	1.04E+01
BALA140		-8.89E-01	±	6.33E+00	8.43E+00
BE-7		1.02E+01	±	3.62E+01	5.24E+01
CO-60		-1.83E+00	±	7.21E+00	9.37E+00
CS-134		-8.96E-01	±	4.71E+00	6.62E+00
CS-137		1.54E+00	±	4.73E+00	6.67E+00
FE-59		-1.28E+00	±	1.48E+01	1.97E+01
K-40	+	1.19E+03	±	1.35E+02	7.92E+01
MN-54		1.24E+00	±	5.08E+00	6.97E+00
ZN-65		-8.54E-01	±	1.11E+01	1.52E+01
ZRNB-95		2.98E+00	±	8.51E+00	1.16E+01

Collection Date: 9/23/2025

Nuclide	RQ	Activity	±	Error	MDA
BA-133		2.08E+00	±	6.82E+00	1.16E+01
BALA140		-4.86E-01	±	6.30E+00	8.46E+00
BE-7		-2.56E+01	±	4.51E+01	6.33E+01
CO-60		2.63E+00	±	4.81E+00	6.23E+00
CS-134		-3.58E-01	±	5.03E+00	7.11E+00
CS-137		-3.60E+00	±	6.55E+00	8.93E+00
FE-59		-9.97E-01	±	1.57E+01	2.08E+01
K-40	+	1.23E+03	±	1.38E+02	8.26E+01
MN-54		2.78E+00	±	4.11E+00	5.47E+00
ZN-65		-9.60E-01	±	1.52E+01	2.03E+01
ZRNB-95		1.61E+00	±	7.62E+00	1.06E+01

Collection Date: 10/7/2025

Nuclide	RQ	Activity	±	Error	MDA
BA-133		-3.66E+00	±	8.45E+00	1.18E+01
BALA140		-4.66E-01	±	6.04E+00	8.11E+00
BE-7		-1.01E+01	±	4.20E+01	6.04E+01
CO-60		4.03E+00	±	4.45E+00	5.50E+00
CS-134		-3.91E+00	±	6.76E+00	9.16E+00
CS-137		-6.61E-01	±	5.37E+00	7.63E+00
FE-59		-1.55E+00	±	1.37E+01	1.84E+01
K-40	+	1.28E+03	±	1.44E+02	8.90E+01
MN-54		4.19E+00	±	3.74E+00	4.71E+00
ZN-65		-6.92E+00	±	1.69E+01	2.19E+01
ZRNB-95		-1.82E+00	±	9.37E+00	1.29E+01

Collection Date: 11/4/2025

Nuclide	RQ	Activity	±	Error	MDA
BA-133		-2.95E+00	±	6.96E+00	1.01E+01
BALA140		-4.10E-01	±	6.75E+00	9.22E+00
BE-7		6.45E+00	±	3.97E+01	5.76E+01
CO-60		-1.38E+00	±	5.79E+00	8.24E+00
CS-134		1.34E+00	±	3.70E+00	5.36E+00
CS-137		6.66E-01	±	6.20E+00	8.75E+00
FE-59		-1.58E+00	±	1.80E+01	2.43E+01
K-40	+	1.40E+03	±	1.47E+02	8.34E+01
MN-54		-6.70E-01	±	5.50E+00	7.81E+00
ZN-65		4.75E+00	±	1.21E+01	1.64E+01
ZRNB-95		-1.16E+00	±	8.92E+00	1.27E+01

Collection Date: 12/2/2025

Nuclide	RQ	Activity	±	Error	MDA
BA-133		1.31E-01	±	5.21E+00	7.41E+00
BALA140		-4.97E+00	±	7.56E+00	9.19E+00
BE-7		-3.38E-01	±	3.16E+01	4.54E+01
CO-60		3.37E+00	±	4.19E+00	5.20E+00
CS-134		-1.16E+00	±	4.03E+00	5.54E+00
CS-137		1.56E+00	±	5.00E+00	6.86E+00
FE-59		9.75E+00	±	1.03E+01	1.26E+01
K-40	+	1.18E+03	±	1.21E+02	8.88E+01
MN-54		2.43E+00	±	4.27E+00	5.63E+00
ZN-65		6.04E+00	±	9.62E+00	1.23E+01
ZRNB-95		6.78E+00	±	6.50E+00	8.56E+00

RQ = Results Qualifier. If blank, result is less than detection limit. If "+", result is above detection limit.

TABLE A-12.2

GAMMA SPECTROMETRY RESULTS OF MILK - SUMMARY

Results in pCi/liter

Nuclide		Average Activity	Activity Low	Activity High	Average MDA	Number of Samples	Number of Positive IDs
BA-133	Ind	-2.21E+00	-3.85E+00	2.49E+00	1.04E+01	18	0
BA-133	Cntl	-2.60E+00	-3.66E+00	2.08E+00	9.29E+00	18	0
BALA140	Ind	-3.75E-01	-4.99E+00	1.79E+00	7.08E+00	18	0
BALA140	Cntl	-3.04E-01	-4.97E+00	1.94E+00	7.36E+00	18	0
BE-7	Ind	3.71E+00	-2.61E+01	4.31E+01	5.26E+01	18	0
BE-7	Cntl	-6.12E+00	-2.56E+01	1.17E+01	5.18E+01	18	0
CO-60	Ind	4.56E-01	-2.10E+00	3.04E+00	7.24E+00	18	0
CO-60	Cntl	1.06E+00	-1.83E+00	4.29E+00	6.23E+00	18	0
CS-134	Ind	-1.74E+00	-3.59E+00	1.25E+00	7.44E+00	18	0
CS-134	Cntl	-1.27E+00	-4.12E+00	2.72E+00	6.74E+00	18	0
CS-137	Ind	-3.60E-01	-3.79E+00	3.09E+00	7.66E+00	18	0
CS-137	Cntl	-7.35E-01	-3.60E+00	3.20E+00	7.31E+00	18	0
FE-59	Ind	-5.84E-01	-1.32E+01	8.28E+00	1.84E+01	18	0
FE-59	Cntl	7.10E-01	-4.98E+00	9.75E+00	1.71E+01	18	0
K-40	Ind	1.31E+03	9.03E+02	1.50E+03	8.68E+01	18	18
K-40	Cntl	1.24E+03	6.26E+02	1.48E+03	8.29E+01	18	18
MN-54	Ind	-2.30E-01	-4.10E+00	4.41E+00	6.95E+00	18	0
MN-54	Cntl	8.51E-01	-4.14E+00	4.19E+00	6.03E+00	18	0
ZN-65	Ind	-3.02E+00	-1.01E+01	2.15E+00	1.68E+01	18	0
ZN-65	Cntl	-8.90E-01	-8.20E+00	6.04E+00	1.59E+01	18	0
ZRNB-95	Ind	-4.01E-01	-5.85E+00	6.28E+00	1.15E+01	18	0
ZRNB-95	Cntl	1.92E-01	-5.15E+00	6.78E+00	1.07E+01	18	0

Ind = Indicator Stations Cntl = Control Stations

Table A-13.1

GAMMA SPECTROMETRY RESULTS OF PLANT DISCHARGE WATER

STATION 27 - Plant Discharge Water Indicator

Results in pCi/liter, corrected for decay during collection period

Location ST-27 collected 2/3/2025

Nuclide	RQ	Activity	±	Error	MDA
BALA140		1.19E+00	±	1.13E+01	1.50E+01
BI-214		8.82E+00	±	8.82E+00	1.21E+01
CO-58		5.97E-01	±	3.22E+00	4.52E+00
CO-60		1.96E-01	±	3.01E+00	4.22E+00
CR-51		2.79E+01	±	3.62E+01	5.17E+01
CS-134		-2.36E+00	±	4.21E+00	5.67E+00
CS-137		1.17E+00	±	4.08E+00	5.59E+00
FE-59		5.00E+00	±	9.56E+00	1.25E+01
I-131		-1.05E+01	±	1.91E+01	2.75E+01
K-40		6.19E+01	±	4.65E+01	6.22E+01
MN-54		6.09E-02	±	3.10E+00	4.24E+00
ZN-65		-6.82E+00	±	1.10E+01	1.39E+01
ZRNB-95		2.74E+00	±	6.48E+00	8.90E+00

Location ST-27 collected 3/3/2025

Nuclide	RQ	Activity	±	Error	MDA
BALA140		1.32E+00	±	1.70E+01	2.13E+01
BI-214		8.03E+00	±	8.92E+00	1.20E+01
CO-58		-7.60E-01	±	4.11E+00	5.54E+00
CO-60		2.37E+00	±	3.27E+00	3.99E+00
CR-51		-2.72E+01	±	5.00E+01	6.96E+01
CS-134		-2.33E+00	±	3.83E+00	5.16E+00
CS-137		-2.87E-01	±	3.08E+00	4.32E+00
FE-59		1.00E+00	±	9.50E+00	1.26E+01
I-131		-5.88E-01	±	2.60E+01	3.71E+01
K-40		-1.13E+01	±	4.44E+01	6.10E+01
MN-54		1.35E+00	±	2.48E+00	3.30E+00
ZN-65		-5.62E+00	±	8.79E+00	1.09E+01
ZRNB-95		1.74E-01	±	7.23E+00	9.85E+00

Location ST-27 collected 4/2/2025

Nuclide	RQ	Activity	±	Error	MDA
BALA140		4.24E+00	±	1.18E+01	1.45E+01
BI-214		9.88E+00	±	7.92E+00	1.04E+01
CO-58		-1.16E+00	±	3.83E+00	5.12E+00
CO-60		-1.02E+00	±	3.65E+00	4.54E+00
CR-51		-1.74E+01	±	4.17E+01	5.83E+01
CS-134		-1.60E+00	±	2.90E+00	3.92E+00
CS-137		4.18E-01	±	2.79E+00	3.88E+00
FE-59		-1.56E+00	±	1.11E+01	1.44E+01
I-131		-7.10E+00	±	2.07E+01	2.91E+01
K-40		-5.06E-01	±	4.22E+01	5.64E+01
MN-54		8.62E-01	±	2.68E+00	3.60E+00
ZN-65		-1.16E+00	±	5.97E+00	7.71E+00
ZRNB-95		5.82E+00	±	6.45E+00	8.34E+00

Location ST-27 collected 5/1/2025

Nuclide	RQ	Activity	±	Error	MDA
BALA140		4.28E+00	±	9.01E+00	1.09E+01
BI-214		5.56E+00	±	7.94E+00	1.07E+01
CO-58		8.46E-01	±	3.05E+00	4.11E+00
CO-60		2.46E+00	±	2.44E+00	2.90E+00
CR-51		8.28E-01	±	3.54E+01	5.03E+01
CS-134		-1.95E+00	±	3.22E+00	4.33E+00
CS-137		-7.52E-01	±	3.08E+00	4.25E+00
FE-59		4.77E+00	±	7.20E+00	9.08E+00
I-131		-6.31E+00	±	1.21E+01	1.69E+01
K-40		-2.52E+01	±	4.36E+01	5.94E+01
MN-54		-4.85E-01	±	2.73E+00	3.69E+00
ZN-65		-4.51E+00	±	7.79E+00	9.71E+00
ZRNB-95		7.63E-01	±	5.45E+00	7.40E+00

Location ST-27 collected 7/1/2025

Nuclide	RQ	Activity	±	Error	MDA
BALA140		-3.36E+00	±	1.20E+01	1.51E+01
BI-214		5.45E+00	±	7.66E+00	1.04E+01
CO-58		2.44E-01	±	3.16E+00	4.34E+00
CO-60		-1.51E+00	±	4.07E+00	5.16E+00
CR-51		-1.81E+01	±	3.92E+01	5.67E+01
CS-134		-2.28E-01	±	3.12E+00	4.32E+00
CS-137		4.14E+00	±	3.34E+00	4.36E+00
FE-59		4.14E+00	±	7.56E+00	9.69E+00
I-131		-7.71E+00	±	1.47E+01	2.05E+01
K-40		-1.29E+01	±	4.39E+01	6.08E+01
MN-54		1.40E+00	±	3.33E+00	4.42E+00
ZN-65		-3.62E+00	±	8.47E+00	1.09E+01
ZRNB-95		-1.96E-01	±	6.38E+00	8.70E+00

Location ST-27 collected 7/31/2025

Nuclide	RQ	Activity	±	Error	MDA
BALA140		-1.31E+00	±	9.54E+00	1.22E+01
BI-214	+	1.23E+01	±	7.95E+00	1.04E+01
CO-58		-1.89E+00	±	4.07E+00	5.38E+00
CO-60		-3.84E-01	±	2.99E+00	3.93E+00
CR-51		-6.24E+00	±	3.57E+01	5.23E+01
CS-134		-2.07E+00	±	3.56E+00	4.79E+00
CS-137		-2.26E+00	±	3.85E+00	5.20E+00
FE-59		1.01E+00	±	8.62E+00	1.14E+01
I-131		-2.73E-01	±	1.15E+01	1.65E+01
K-40		2.32E+00	±	4.48E+01	6.08E+01
MN-54		-7.67E-02	±	2.72E+00	3.74E+00
ZN-65		-5.07E+00	±	7.88E+00	1.01E+01
ZRNB-95		1.70E+00	±	5.15E+00	6.96E+00

RQ = Results Qualifier. If blank, result is less than detection limit. If "+", result is above detection limit.

Table A-13.1

GAMMA SPECTROMETRY RESULTS OF PLANT DISCHARGE WATER

STATION 27 - Plant Discharge Water Indicator

Results in pCi/liter, corrected for decay during collection period

Location ST-27 collected 9/3/2025

Nuclide	RQ	Activity	Error	MDA
BALA140		-5.23E-01	± 1.01E+01	1.31E+01
BI-214		-2.17E+00	± 8.52E+00	1.19E+01
CO-58		-8.91E-02	± 3.16E+00	4.35E+00
CO-60		-1.51E+00	± 4.07E+00	5.16E+00
CR-51		-2.21E+00	± 3.59E+01	5.29E+01
CS-134		-6.85E-01	± 3.34E+00	4.59E+00
CS-137		9.19E-02	± 3.02E+00	4.24E+00
FE-59		6.80E+00	± 1.06E+01	1.33E+01
I-131		-5.33E+00	± 1.38E+01	1.94E+01
K-40		-2.18E+01	± 4.34E+01	6.08E+01
MN-54		2.89E-01	± 3.14E+00	4.27E+00
ZN-65		-5.32E+00	± 8.26E+00	1.05E+01
ZRNB-95		2.75E-01	± 5.44E+00	7.48E+00

Location ST-27 collected 10/1/2025

Nuclide	RQ	Activity	Error	MDA
BALA140		-4.42E-01	± 6.91E+00	8.96E+00
BI-214		8.45E-01	± 8.07E+00	1.12E+01
CO-58		-2.20E+00	± 3.65E+00	4.81E+00
CO-60		1.89E+00	± 2.66E+00	3.34E+00
CR-51		8.49E+00	± 3.11E+01	4.54E+01
CS-134		-6.80E-01	± 2.99E+00	4.11E+00
CS-137		6.43E-01	± 3.29E+00	4.55E+00
FE-59		-1.81E+00	± 1.03E+01	1.33E+01
I-131		2.93E+00	± 7.16E+00	1.01E+01
K-40		-2.51E+00	± 4.25E+01	5.86E+01
MN-54		2.48E+00	± 2.50E+00	3.21E+00
ZN-65		-2.26E+00	± 6.72E+00	8.80E+00
ZRNB-95		2.49E+00	± 5.09E+00	6.79E+00

Location ST-27 collected 11/3/2025

Nuclide	RQ	Activity	Error	MDA
BALA140		-5.00E+00	± 1.02E+01	1.26E+01
BI-214	+	1.34E+01	± 8.43E+00	1.10E+01
CO-58		-2.59E-01	± 3.31E+00	4.51E+00
CO-60		-1.61E+00	± 3.85E+00	4.88E+00
CR-51		-1.22E+01	± 3.57E+01	5.19E+01
CS-134		-1.52E+00	± 3.56E+00	4.83E+00
CS-137		-1.38E+00	± 3.45E+00	4.72E+00
FE-59		4.56E-01	± 1.00E+01	1.31E+01
I-131		-2.36E+00	± 1.04E+01	1.46E+01
K-40		-1.95E+01	± 4.54E+01	6.30E+01
MN-54		1.91E-02	± 3.04E+00	4.16E+00
ZN-65		-2.61E+00	± 7.87E+00	1.02E+01
ZRNB-95		-1.67E+00	± 7.28E+00	9.74E+00

Location ST-27 collected 12/1/2025

Nuclide	RQ	Activity	Error	MDA
BALA140		2.05E+00	± 1.03E+01	1.29E+01
BI-214		-1.92E+00	± 6.20E+00	9.18E+00
CO-58		1.36E+00	± 3.07E+00	4.06E+00
CO-60		-1.21E+00	± 3.37E+00	4.26E+00
CR-51		1.52E+01	± 3.43E+01	4.94E+01
CS-134		-6.45E-02	± 3.07E+00	5.20E+00
CS-137		7.83E-01	± 3.38E+00	4.61E+00
FE-59		-5.57E+00	± 1.13E+01	1.41E+01
I-131		4.07E+00	± 1.24E+01	1.73E+01
K-40		-9.59E+00	± 3.79E+01	5.61E+01
MN-54		6.75E-01	± 2.90E+00	3.86E+00
ZN-65		-5.47E-01	± 6.27E+00	8.24E+00
ZRNB-95		-2.92E+00	± 6.25E+00	8.47E+00

Location ST-27 collected 1/5/2026

Nuclide	RQ	Activity	Error	MDA
BALA140		-5.31E+00	± 1.17E+01	1.44E+01
BI-214		-7.42E-01	± 8.05E+00	1.12E+01
CO-58		-1.91E+00	± 3.85E+00	5.09E+00
CO-60		7.69E-01	± 3.02E+00	3.93E+00
CR-51		-6.54E+00	± 3.39E+01	4.97E+01
CS-134		-6.07E-01	± 3.27E+00	4.49E+00
CS-137		8.27E-01	± 3.12E+00	4.31E+00
FE-59		3.84E-01	± 8.90E+00	1.18E+01
I-131		1.37E+00	± 1.04E+01	1.48E+01
K-40		-2.15E+01	± 4.63E+01	6.40E+01
MN-54		2.53E+00	± 2.82E+00	3.64E+00
ZN-65		-2.38E+00	± 7.87E+00	1.03E+01
ZRNB-95		5.36E+00	± 5.92E+00	7.65E+00

RQ = Results Qualifier. If blank, result is less than detection limit. If "+", result is above detection limit.

TABLE A-13.2

GAMMA SPECTROMETRY RESULTS OF PLANT DISCHARGE WATER - SUMMARY

Results in pCi/liter, corrected for decay during collection period

Nuclide	Average Activity	Activity Low	Activity High	Average MDA	Number of Samples	Number of Positive IDs
BALA140	-2.58E-01	-5.31E+00	4.28E+00	1.37E+01	11	0
BI-214	5.40E+00	-2.17E+00	1.34E+01	1.09E+01	11	2
CO-58	-4.75E-01	-2.20E+00	1.36E+00	4.71E+00	11	0
CO-60	3.90E-02	-1.61E+00	2.46E+00	4.21E+00	11	0
CR-51	-3.42E+00	-2.72E+01	2.79E+01	5.35E+01	11	0
CS-134	-1.28E+00	-2.36E+00	-6.45E-02	4.67E+00	11	0
CS-137	3.09E-01	-2.26E+00	4.14E+00	4.55E+00	11	0
FE-59	1.16E+00	-5.57E+00	6.80E+00	1.15E+01	11	0
I-131	-2.90E+00	-1.05E+01	4.07E+00	2.03E+01	11	0
K-40	-5.51E+00	-2.52E+01	6.19E+01	6.03E+01	11	0
MN-54	8.28E-01	-4.85E-01	2.53E+00	3.83E+00	11	0
ZN-65	-3.63E+00	-6.82E+00	-5.47E-01	1.01E+01	11	0
ZRNB-95	1.32E+00	-2.92E+00	5.82E+00	8.21E+00	11	0

Table A-14.1

GAMMA SPECTROMETRY RESULTS OF DEEP GROUND WATER

Deep Ground Water Well - Station 52

Results in pCi/liter

Location ST-52 collected 3/3/2025

Nuclide	RQ	Activity		Error	MDA
BALA140		-1.83E+00	±	1.17E+01	1.41E+01
BI-214		-1.35E+01	±	5.02E+00	7.53E+00
CO-58		1.70E+00	±	1.96E+00	2.53E+00
CO-60		1.47E+00	±	1.89E+00	2.26E+00
CR-51		-3.97E+00	±	2.85E+01	3.97E+01
CS-134		8.28E-01	±	2.13E+00	3.55E+00
CS-137		-1.55E-01	±	1.94E+00	2.65E+00
FE-59		0.00E+00	±	2.00E+03	4.65E+00
I-131		-6.02E+00	±	2.24E+01	3.12E+01
K-40		-1.89E+01	±	3.02E+01	3.55E+01
MN-54		-1.97E-01	±	1.79E+00	2.38E+00
ZN-65		2.40E+00	±	3.91E+00	4.84E+00
ZRNB-95		7.24E-02	±	3.79E+00	5.06E+00

Location ST-52 collected 6/30/2025

Nuclide	RQ	Activity		Error	MDA
BALA140		-1.95E+00	±	7.12E+00	9.31E+00
BI-214		8.68E+00	±	1.80E+01	2.51E+01
CO-58		7.75E-01	±	5.96E+00	8.34E+00
CO-60		3.40E-01	±	4.94E+00	7.14E+00
CR-51		-1.85E+01	±	5.24E+01	7.61E+01
CS-134		-2.19E+00	±	7.03E+00	9.91E+00
CS-137		7.87E-01	±	6.73E+00	9.38E+00
FE-59		-5.61E+00	±	1.56E+01	2.06E+01
I-131		-1.28E+00	±	6.77E+00	9.94E+00
K-40		6.12E+01	±	9.09E+01	1.27E+02
MN-54		2.14E+00	±	6.45E+00	8.64E+00
ZN-65		-5.84E+00	±	1.60E+01	2.08E+01
ZRNB-95		2.02E+00	±	1.10E+01	1.53E+01

Location ST-52 collected 9/3/2025

Nuclide	RQ	Activity		Error	MDA
BALA140		-6.18E+00	±	1.32E+01	1.67E+01
BI-214	+	5.08E+01	±	1.57E+01	1.74E+01
CO-58		3.29E+00	±	6.49E+00	8.86E+00
CO-60		2.08E+00	±	6.53E+00	8.87E+00
CR-51		-7.11E+00	±	6.27E+01	9.20E+01
CS-134		-2.06E+00	±	8.95E+00	1.51E+01
CS-137		2.62E+00	±	6.90E+00	9.77E+00
FE-59		-9.03E+00	±	1.92E+01	2.50E+01
I-131		-2.13E+00	±	1.20E+01	1.77E+01
K-40	+	2.28E+02	±	8.44E+01	1.05E+02
MN-54		-1.96E+00	±	6.35E+00	8.77E+00
ZN-65		-1.88E-01	±	1.43E+01	1.97E+01
ZRNB-95		4.32E+00	±	1.15E+01	1.58E+01

Location ST-52 collected 12/1/2025

Nuclide	RQ	Activity		Error	MDA
BALA140		5.88E-01	±	5.69E+00	7.08E+00
BI-214		-5.16E+00	±	5.01E+00	7.38E+00
CO-58		-9.26E-01	±	2.57E+00	3.37E+00
CO-60		-3.34E-01	±	2.56E+00	3.23E+00
CR-51		8.87E+00	±	2.34E+01	3.36E+01
CS-134		-1.46E+00	±	2.58E+00	3.45E+00
CS-137		-1.08E+00	±	2.45E+00	3.30E+00
FE-59		1.65E+00	±	7.29E+00	9.16E+00
I-131		4.45E+00	±	7.39E+00	1.02E+01
K-40		-7.84E+00	±	3.09E+01	4.43E+01
MN-54		-7.46E-01	±	2.30E+00	3.02E+00
ZN-65		2.50E-01	±	4.75E+00	6.16E+00
ZRNB-95		1.80E+00	±	3.95E+00	5.34E+00

RQ = Results Qualifier. If blank, result is less than detection limit. If "+", result is above detection limit.

TABLE A-14.2

GAMMA SPECTROMETRY RESULTS OF DEEP GROUND WATER - SUMMARY

Results in pCi/liter

Nuclide	Average Activity	Activity Low	Activity High	Average MDA	Number of Samples	Number of Positive IDs
BALA140	-2.34E+00	-6.18E+00	5.88E-01	1.18E+01	4	0
BI-214	1.02E+01	-1.35E+01	5.08E+01	1.43E+01	4	1
CO-58	1.21E+00	-9.26E-01	3.29E+00	5.78E+00	4	0
CO-60	8.88E-01	-3.34E-01	2.08E+00	5.38E+00	4	0
CR-51	-5.18E+00	-1.85E+01	8.87E+00	6.03E+01	4	0
CS-134	-1.22E+00	-2.19E+00	8.28E-01	7.99E+00	4	0
CS-137	5.44E-01	-1.08E+00	2.62E+00	6.27E+00	4	0
FE-59	-3.25E+00	-9.03E+00	1.65E+00	1.48E+01	4	0
I-131	-1.25E+00	-6.02E+00	4.45E+00	1.73E+01	4	0
K-40	6.57E+01	-1.89E+01	2.28E+02	7.79E+01	4	1
MN-54	-1.92E-01	-1.96E+00	2.14E+00	5.70E+00	4	0
ZN-65	-8.45E-01	-5.84E+00	2.40E+00	1.29E+01	4	0
ZRNB-95	2.05E+00	7.24E-02	4.32E+00	1.04E+01	4	0

TABLE A-15.1

GAMMA SPECTROMETRY RESULTS OF ROOT CROPS

Results in pCi/ kilogram (wet)

Station 37and 37B are Indicators - Station 9C is Control

Station 37 Carrots collected 6/20/2025

Nuclide	RQ	Activity		Error	MDA
BALA140		-7.16E+00	±	1.90E+01	2.44E+01
CO-58		-8.03E+00	±	1.35E+01	1.82E+01
CO-60		-2.69E+00	±	1.36E+01	1.89E+01
CS-134		-3.42E+00	±	1.26E+01	1.78E+01
CS-137		5.49E+00	±	1.15E+01	1.63E+01
FE-59		3.92E+00	±	2.96E+01	3.98E+01
I-131		-4.76E-01	±	1.59E+01	2.36E+01
K-40	+	3.09E+03	±	2.88E+02	1.81E+02
MN-54		8.81E+00	±	9.91E+00	1.32E+01
ZN-65		-1.09E+01	±	3.05E+01	4.06E+01
ZRNB-95		-2.62E+00	±	2.09E+01	2.93E+01

Station 37B Potato collected 7/10/2025

Nuclide	RQ	Activity		Error	MDA
BALA140		-1.35E+00	±	1.18E+01	1.71E+01
CO-58		-7.32E+00	±	1.24E+01	1.70E+01
CO-60		-4.21E+00	±	1.60E+01	2.14E+01
CS-134		-2.29E+00	±	9.60E+00	1.40E+01
CS-137		5.95E+00	±	1.04E+01	1.43E+01
FE-59		-1.56E+01	±	3.90E+01	5.16E+01
I-131		-5.66E+00	±	1.40E+01	2.07E+01
K-40	+	3.44E+03	±	3.43E+02	1.46E+02
MN-54		-1.09E+00	±	1.01E+01	1.47E+01
ZN-65		1.56E+01	±	2.29E+01	3.06E+01
ZRNB-95		6.74E+00	±	1.28E+01	1.81E+01

Station 37B Potato collected 8/4/2025

Nuclide	RQ	Activity		Error	MDA
BALA140		4.81E+00	±	8.57E+00	1.13E+01
CO-58		-8.45E+00	±	1.44E+01	1.91E+01
CO-60		6.17E+00	±	9.29E+00	1.20E+01
CS-134		-4.00E+00	±	1.08E+01	1.51E+01
CS-137		1.65E+00	±	1.13E+01	1.62E+01
FE-59		1.79E+01	±	3.40E+01	4.36E+01
I-131		-3.84E+00	±	1.10E+01	1.57E+01
K-40	+	4.35E+03	±	4.03E+02	1.61E+02
MN-54		5.49E+00	±	9.51E+00	1.28E+01
ZN-65		-6.53E+00	±	3.31E+01	4.42E+01
ZRNB-95		7.54E+00	±	1.39E+01	1.96E+01

Station 37B Potato collected 9/8/2025

Nuclide	RQ	Activity		Error	MDA
BALA140		-1.86E+01	±	5.28E+01	6.96E+01
CO-58		1.25E+01	±	2.24E+01	3.18E+01
CO-60		-1.28E+01	±	3.76E+01	5.37E+01
CS-134		-3.21E+00	±	2.93E+01	4.39E+01
CS-137		-9.81E+00	±	3.89E+01	5.54E+01
FE-59		-7.72E+01	±	1.23E+02	1.59E+02
I-131		1.40E+00	±	2.88E+01	4.45E+01
K-40	+	4.41E+03	±	7.24E+02	4.55E+02
MN-54		1.35E+01	±	2.28E+01	3.22E+01
ZN-65		2.01E+01	±	5.48E+01	7.82E+01
ZRNB-95		1.32E+01	±	5.12E+01	7.45E+01

Station 37 Carrots collected 10/3/2025

Nuclide	RQ	Activity		Error	MDA
BALA140		-5.09E+00	±	1.42E+01	1.91E+01
CO-58		1.10E+00	±	9.02E+00	1.33E+01
CO-60		7.54E-01	±	1.17E+01	1.65E+01
CS-134		-7.06E+00	±	1.23E+01	1.73E+01
CS-137		-4.34E+00	±	1.41E+01	1.97E+01
FE-59		2.15E+00	±	3.29E+01	4.55E+01
I-131		-2.06E+00	±	1.10E+01	1.66E+01
K-40	+	3.95E+03	±	3.75E+02	1.64E+02
MN-54		4.92E+00	±	9.41E+00	1.32E+01
ZN-65		-3.44E+00	±	2.47E+01	3.48E+01
ZRNB-95		3.82E+00	±	1.59E+01	2.30E+01

Station 9C Carrots collected 6/20/2025

Nuclide	RQ	Activity		Error	MDA
BALA140		1.19E+00	±	9.10E+00	1.20E+01
CO-58		-3.49E+00	±	1.01E+01	1.30E+01
CO-60		0.00E+00	±	3.50E+00	1.25E+01
CS-134		-7.38E+00	±	1.13E+01	1.45E+01
CS-137		-7.35E-01	±	8.76E+00	1.19E+01
FE-59		-3.79E+00	±	2.92E+01	3.67E+01
I-131		-1.63E+00	±	1.17E+01	1.59E+01
K-40	+	3.02E+03	±	4.06E+02	1.17E+02
MN-54		1.20E+00	±	9.35E+00	1.23E+01
ZN-65		-1.96E+01	±	3.03E+01	3.68E+01
ZRNB-95		-3.26E+00	±	1.74E+01	2.27E+01

Station 9C Potato collected 8/1/2025

Nuclide	RQ	Activity		Error	MDA
BALA140		-2.75E+00	±	1.57E+01	2.11E+01
CO-58		-6.53E+00	±	1.13E+01	1.51E+01
CO-60		-3.65E+00	±	1.61E+01	2.11E+01
CS-134		3.00E+00	±	8.97E+00	1.26E+01
CS-137		-1.06E+00	±	1.14E+01	1.64E+01
FE-59		9.14E+00	±	3.09E+01	4.11E+01
I-131		-1.77E+00	±	1.17E+01	1.71E+01
K-40	+	3.61E+03	±	3.67E+02	1.74E+02
MN-54		3.23E+00	±	8.97E+00	1.25E+01
ZN-65		-7.93E-01	±	2.74E+01	3.77E+01
ZRNB-95		-4.72E+00	±	2.12E+01	3.00E+01

RQ = Results Qualifier. If blank, result is less than detection limit. If "+", result is above detection limit.

TABLE A-15.2

GAMMA SPECTROMETRY RESULTS OF ROOT CROPS - SUMMARY

Results in pCi/ kilogram (wet)

Nuclide		Average Activity	Activity Low	Activity High	Average MDA	Number of Samples	Number of Positive IDs
BALA140	Ind	-5.47E+00	-1.86E+01	4.81E+00	2.83E+01	5	0
BALA140	Cntl	-7.82E-01	-2.75E+00	1.19E+00	1.66E+01	2	0
CO-58	Ind	-2.04E+00	-8.45E+00	1.25E+01	1.99E+01	5	0
CO-58	Cntl	-5.01E+00	-6.53E+00	-3.49E+00	1.41E+01	2	0
CO-60	Ind	-2.56E+00	-1.28E+01	6.17E+00	2.45E+01	5	0
CO-60	Cntl	-1.83E+00	-3.65E+00	0.00E+00	1.68E+01	2	0
CS-134	Ind	-4.00E+00	-7.06E+00	-2.29E+00	2.17E+01	5	0
CS-134	Cntl	-2.19E+00	-7.38E+00	3.00E+00	1.35E+01	2	0
CS-137	Ind	-2.13E-01	-9.81E+00	5.95E+00	2.44E+01	5	0
CS-137	Cntl	-8.96E-01	-1.06E+00	-7.35E-01	1.42E+01	2	0
FE-59	Ind	-1.38E+01	-7.72E+01	1.79E+01	6.80E+01	5	0
FE-59	Cntl	2.68E+00	-3.79E+00	9.14E+00	3.89E+01	2	0
I-131	Ind	-2.13E+00	-5.66E+00	1.40E+00	2.42E+01	5	0
I-131	Cntl	-1.70E+00	-1.77E+00	-1.63E+00	1.65E+01	2	0
K-40	Ind	3.85E+03	3.09E+03	4.41E+03	2.21E+02	5	5
K-40	Cntl	3.31E+03	3.02E+03	3.61E+03	1.45E+02	2	2
MN-54	Ind	6.33E+00	-1.09E+00	1.35E+01	1.72E+01	5	0
MN-54	Cntl	2.22E+00	1.20E+00	3.23E+00	1.24E+01	2	0
ZN-65	Ind	2.95E+00	-1.09E+01	2.01E+01	4.57E+01	5	0
ZN-65	Cntl	-1.02E+01	-1.96E+01	-7.93E-01	3.72E+01	2	0
ZRNB-95	Ind	5.74E+00	-2.62E+00	1.32E+01	3.29E+01	5	0
ZRNB-95	Cntl	-3.99E+00	-4.72E+00	-3.26E+00	2.64E+01	2	0

Ind = Indicator Stations Cntl = Control Stations

TABLE A-16.1

GAMMA SPECTROMETRY RESULTS OF FRUITS

Results in pCi/ kilogram (wet)

Station 37 is Indicator - Station 9C is Control

Station 37 Cherries collected 6/19/2025

Nuclide	RQ	Activity	±	Error	MDA
BALA140		-5.68E+00	±	1.30E+01	1.59E+01
CO-58		-2.76E+00	±	9.90E+00	1.28E+01
CO-60		-4.46E+00	±	1.24E+01	1.52E+01
CS-134		-2.71E+00	±	9.65E+00	1.26E+01
CS-137		-4.81E+00	±	1.11E+01	1.44E+01
FE-59		5.99E+00	±	2.62E+01	3.28E+01
I-131		-5.52E+00	±	1.32E+01	1.75E+01
K-40	+	3.21E+03	±	4.17E+02	9.49E+01
MN-54		-3.76E-01	±	8.70E+00	1.15E+01
ZN-65		-9.73E+00	±	2.70E+01	3.35E+01
ZRNB-95		-1.20E+01	±	1.98E+01	2.47E+01

Station 37 Nectarines collected 7/14/2025

Nuclide	RQ	Activity	±	Error	MDA
BALA140		0.00E+00	±	1.84E+00	6.78E+00
CO-58		3.19E+00	±	6.19E+00	8.88E+00
CO-60		-4.47E-01	±	1.03E+01	1.48E+01
CS-134		-8.71E-02	±	9.29E+00	1.39E+01
CS-137		1.61E+00	±	9.25E+00	1.34E+01
FE-59		8.18E+00	±	2.17E+01	3.00E+01
I-131		4.51E-01	±	8.50E+00	1.30E+01
K-40	+	2.89E+03	±	3.25E+02	1.77E+02
MN-54		-5.91E+00	±	1.28E+01	1.77E+01
ZN-65		5.97E+00	±	2.30E+01	3.21E+01
ZRNB-95		0.00E+00	±	2.82E+00	2.35E+01

Station 37 Watermelon collected 8/1/2025

Nuclide	RQ	Activity	±	Error	MDA
BALA140		-2.75E+00	±	1.20E+01	1.65E+01
CO-58		-3.16E-01	±	9.72E+00	1.38E+01
CO-60		-1.33E+00	±	9.58E+00	1.34E+01
CS-134		-1.25E+00	±	7.78E+00	1.12E+01
CS-137		-3.09E+00	±	1.01E+01	1.43E+01
FE-59		-1.05E+01	±	2.99E+01	3.94E+01
I-131		-7.89E-01	±	1.01E+01	1.49E+01
K-40	+	1.11E+03	±	1.96E+02	1.30E+02
MN-54		5.23E-01	±	7.68E+00	1.12E+01
ZN-65		2.31E+00	±	1.57E+01	2.26E+01
ZRNB-95		-9.10E+00	±	1.85E+01	2.57E+01

Station 37 Apples collected 9/2/2025

Nuclide	RQ	Activity	±	Error	MDA
BALA140		-8.00E-01	±	1.47E+01	2.07E+01
CO-58		-2.35E-01	±	1.01E+01	1.45E+01
CO-60		3.93E+00	±	6.86E+00	9.28E+00
CS-134		-3.17E+00	±	9.87E+00	1.39E+01
CS-137		-5.02E+00	±	1.09E+01	1.53E+01
FE-59		1.03E+01	±	2.66E+01	3.57E+01
I-131		-8.34E+00	±	1.64E+01	2.32E+01
K-40	+	1.11E+03	±	2.05E+02	1.41E+02
MN-54		1.94E+00	±	1.07E+01	1.50E+01
ZN-65		-2.80E+00	±	3.08E+01	4.19E+01
ZRNB-95		-1.02E+00	±	1.53E+01	2.28E+01

Station 37 Red Grapes collected 10/7/2025

Nuclide	RQ	Activity	±	Error	MDA
BALA140		-7.30E+00	±	1.48E+01	1.87E+01
CO-58		-7.91E-01	±	8.65E+00	1.22E+01
CO-60		0.00E+00	±	4.69E+00	1.42E+01
CS-134		-7.09E-01	±	8.15E+00	1.17E+01
CS-137		-1.52E+00	±	9.19E+00	1.32E+01
FE-59		-2.90E+00	±	3.37E+01	4.44E+01
I-131		-2.15E+00	±	9.33E+00	1.34E+01
K-40	+	2.70E+03	±	2.83E+02	1.28E+02
MN-54		6.20E-01	±	1.04E+01	1.45E+01
ZN-65		-5.65E+00	±	2.18E+01	2.93E+01
ZRNB-95		-1.10E+01	±	1.82E+01	2.49E+01

Station 37 Green Grapes collected 10/7/2025

Nuclide	RQ	Activity	±	Error	MDA
BALA140		-4.06E+00	±	1.54E+01	2.02E+01
CO-58		-3.14E+00	±	1.11E+01	1.52E+01
CO-60		-7.50E-01	±	1.23E+01	1.69E+01
CS-134		2.11E-01	±	1.30E+01	2.25E+01
CS-137		-4.69E+00	±	1.14E+01	1.60E+01
FE-59		-2.41E+00	±	2.55E+01	3.52E+01
I-131		1.74E+00	±	1.05E+01	1.52E+01
K-40	+	2.43E+03	±	2.97E+02	1.64E+02
MN-54		-3.16E-01	±	9.73E+00	1.39E+01
ZN-65		-1.66E+01	±	3.79E+01	4.92E+01
ZRNB-95		-2.71E+00	±	1.77E+01	2.55E+01

Station 9C Cherries collected 6/20/2025

Nuclide	RQ	Activity	±	Error	MDA
BALA140		-8.93E+00	±	2.05E+01	2.50E+01
CO-58		-3.73E+00	±	1.62E+01	2.09E+01
CO-60		4.51E+00	±	9.37E+00	1.19E+01
CS-134		-9.34E+00	±	1.67E+01	2.14E+01
CS-137		7.06E+00	±	1.63E+01	2.12E+01
FE-59		-9.16E+00	±	3.42E+01	4.32E+01
I-131		5.70E+00	±	1.48E+01	2.00E+01
K-40	+	2.10E+03	±	3.43E+02	1.59E+02
MN-54		-2.73E+00	±	1.20E+01	1.58E+01
ZN-65		-1.02E+01	±	3.65E+01	4.58E+01
ZRNB-95		-5.92E+00	±	2.16E+01	2.83E+01

Station 9C Peaches collected 8/1/2025

Nuclide	RQ	Activity	±	Error	MDA
BALA140		1.30E+00	±	8.66E+00	1.28E+01
CO-58		4.28E+00	±	7.60E+00	1.04E+01
CO-60		-3.02E+00	±	1.27E+01	1.69E+01
CS-134		-3.82E+00	±	9.68E+00	1.35E+01
CS-137		2.09E+00	±	1.01E+01	1.46E+01
FE-59		1.79E+00	±	2.94E+01	4.02E+01
I-131		3.60E-01	±	9.62E+00	1.43E+01
K-40	+	1.36E+03	±	2.45E+02	1.85E+02
MN-54		-5.54E+00	±	1.25E+01	1.68E+01
ZN-65		6.01E+00	±	2.28E+01	3.10E+01
ZRNB-95		-9.27E-01	±	1.28E+01	1.92E+01

RQ = Results Qualifier. If blank, result is less than detection limit. If "+", result is above detection limit.

TABLE A-16.2

GAMMA SPECTROMETRY RESULTS OF FRUITS - SUMMARY

Results in pCi/ kilogram (wet)

Nuclide		Average Activity	Activity Low	Activity High	Average MDA	Number of Samples	Number of Positive IDs
BALA140	Ind	-3.43E+00	-7.30E+00	0.00E+00	1.65E+01	6	0
BALA140	Cntl	-3.82E+00	-8.93E+00	1.30E+00	1.89E+01	2	0
CO-58	Ind	-6.75E-01	-3.14E+00	3.19E+00	1.29E+01	6	0
CO-58	Cntl	2.72E-01	-3.73E+00	4.28E+00	1.56E+01	2	0
CO-60	Ind	-5.11E-01	-4.46E+00	3.93E+00	1.39E+01	6	0
CO-60	Cntl	7.45E-01	-3.02E+00	4.51E+00	1.44E+01	2	0
CS-134	Ind	-1.29E+00	-3.17E+00	2.11E-01	1.43E+01	6	0
CS-134	Cntl	-6.58E+00	-9.34E+00	-3.82E+00	1.74E+01	2	0
CS-137	Ind	-2.92E+00	-5.02E+00	1.61E+00	1.44E+01	6	0
CS-137	Cntl	4.58E+00	2.09E+00	7.06E+00	1.79E+01	2	0
FE-59	Ind	1.44E+00	-1.05E+01	1.03E+01	3.62E+01	6	0
FE-59	Cntl	-3.69E+00	-9.16E+00	1.79E+00	4.17E+01	2	0
I-131	Ind	-2.43E+00	-8.34E+00	1.74E+00	1.62E+01	6	0
I-131	Cntl	3.03E+00	3.60E-01	5.70E+00	1.72E+01	2	0
K-40	Ind	2.24E+03	1.11E+03	3.21E+03	1.39E+02	6	6
K-40	Cntl	1.73E+03	1.36E+03	2.10E+03	1.72E+02	2	2
MN-54	Ind	-5.87E-01	-5.91E+00	1.94E+00	1.40E+01	6	0
MN-54	Cntl	-4.13E+00	-5.54E+00	-2.73E+00	1.63E+01	2	0
ZN-65	Ind	-4.41E+00	-1.66E+01	5.97E+00	3.48E+01	6	0
ZN-65	Cntl	-2.09E+00	-1.02E+01	6.01E+00	3.84E+01	2	0
ZRNB-95	Ind	-5.98E+00	-1.20E+01	0.00E+00	2.45E+01	6	0
ZRNB-95	Cntl	-3.42E+00	-5.92E+00	-9.27E-01	2.38E+01	2	0

Ind = Indicator Stations Cntl = Control Stations

TABLE A-17.1

GAMMA SPECTROMETRY RESULTS OF VEGETABLES

Results in pCi/ kilogram (wet)

Stations 37 and 48G are Indicators - Station 9C is Control

Station 37 Broad Leaf Vegetable collected 6/20/2025

Nuclide	RQ	Activity	±	Error	MDA
BALA140		4.15E+00	±	6.35E+00	7.83E+00
CO-58		3.22E+00	±	7.55E+00	9.72E+00
CO-60		-2.29E+00	±	9.32E+00	1.17E+01
CS-134		-1.92E+00	±	8.87E+00	1.17E+01
CS-137		-6.22E+00	±	1.11E+01	1.43E+01
FE-59		-8.73E+00	±	2.86E+01	3.51E+01
I-131		-4.83E+00	±	1.16E+01	1.54E+01
K-40	+	3.65E+03	±	4.58E+02	1.06E+02
MN-54		3.60E+00	±	6.60E+00	8.44E+00
ZN-65		-1.94E+01	±	2.99E+01	3.61E+01
ZRNB-95		-1.38E+01	±	2.13E+01	2.65E+01

Station 37 Broad Leaf Vegetable collected 7/11/2025

Nuclide	RQ	Activity	±	Error	MDA
BALA140		-4.41E+00	±	2.15E+01	3.05E+01
CO-58		-1.04E+00	±	1.69E+01	2.50E+01
CO-60		2.08E+00	±	5.19E+00	1.07E+01
CS-134		2.66E+00	±	1.20E+01	1.81E+01
CS-137		8.17E+00	±	1.85E+01	2.61E+01
FE-59		-6.74E-01	±	4.04E+01	5.93E+01
I-131		-1.27E+01	±	2.40E+01	3.51E+01
K-40	+	3.24E+03	±	4.60E+02	2.76E+02
MN-54		8.87E+00	±	1.53E+01	2.14E+01
ZN-65		1.53E+01	±	2.60E+01	3.61E+01
ZRNB-95		-5.39E+00	±	3.35E+01	4.84E+01

Station 37 Zucchini collected 7/11/2025

Nuclide	RQ	Activity	±	Error	MDA
BALA140		-1.48E+00	±	1.30E+01	1.88E+01
CO-58		-3.19E+00	±	1.14E+01	1.63E+01
CO-60		3.50E+00	±	9.21E+00	1.30E+01
CS-134		3.07E+00	±	9.10E+00	1.33E+01
CS-137		5.66E+00	±	9.63E+00	1.34E+01
FE-59		-8.30E+00	±	3.31E+01	4.55E+01
I-131		-9.87E-01	±	1.24E+01	1.90E+01
K-40	+	2.17E+03	±	2.95E+02	1.70E+02
MN-54		3.17E+00	±	9.88E+00	1.42E+01
ZN-65		-1.16E+01	±	2.94E+01	4.03E+01
ZRNB-95		-5.54E+00	±	2.09E+01	2.98E+01

Station 37 Broad Leaf Vegetable collected 8/1/2025

Nuclide	RQ	Activity	±	Error	MDA
BALA140		-7.21E+00	±	2.93E+01	3.91E+01
CO-58		2.12E-01	±	1.38E+01	2.05E+01
CO-60		8.35E+00	±	2.29E+01	3.04E+01
CS-134		6.72E+00	±	1.44E+01	2.02E+01
CS-137		4.14E+00	±	1.52E+01	2.21E+01
FE-59		3.52E+01	±	6.17E+01	7.92E+01
I-131		2.81E+00	±	2.02E+01	2.97E+01
K-40	+	2.36E+03	±	4.46E+02	3.37E+02
MN-54		-2.53E+00	±	1.84E+01	2.61E+01
ZN-65		-1.24E+01	±	4.85E+01	6.57E+01
ZRNB-95		5.49E+00	±	2.57E+01	3.80E+01

Station 37 Parsley collected 9/5/2025

Nuclide	RQ	Activity	±	Error	MDA
BALA140		5.86E-01	±	1.61E+01	2.28E+01
CO-58		0.00E+00	±	1.24E+01	2.38E+01
CO-60		-1.65E+00	±	1.86E+01	2.51E+01
CS-134		-2.91E+00	±	1.40E+01	1.97E+01
CS-137		-9.21E+00	±	1.84E+01	2.53E+01
FE-59		-1.56E+01	±	5.48E+01	7.13E+01
I-131		-8.60E+00	±	1.91E+01	2.71E+01
K-40	+	4.96E+03	±	5.02E+02	2.35E+02
MN-54		-6.70E+00	±	1.63E+01	2.21E+01
ZN-65		-8.22E+00	±	4.68E+01	6.23E+01
ZRNB-95		1.27E+00	±	2.45E+01	3.57E+01

Station 48G Broad Leaf Vegetable collected 9/23/2025

Nuclide	RQ	Activity	±	Error	MDA
BALA140		3.13E+00	±	2.49E+01	3.48E+01
CO-58		2.19E+00	±	1.97E+01	2.82E+01
CO-60		4.38E+00	±	2.52E+01	3.44E+01
CS-134		-8.90E+00	±	2.70E+01	3.75E+01
CS-137		9.72E+00	±	2.12E+01	2.99E+01
FE-59		-3.62E+01	±	7.96E+01	1.03E+02
I-131		-1.29E+01	±	2.52E+01	3.58E+01
K-40	+	7.10E+03	±	7.40E+02	3.25E+02
MN-54		2.19E+00	±	1.97E+01	2.82E+01
ZN-65		2.06E+01	±	4.35E+01	5.86E+01
ZRNB-95		1.81E+01	±	3.83E+01	5.22E+01

Station 37 Broad Leaf Vegetable collected 10/3/2025

Nuclide	RQ	Activity	±	Error	MDA
BALA140		-2.53E+00	±	1.24E+01	1.75E+01
CO-58		-2.98E+00	±	1.06E+01	1.52E+01
CO-60		8.98E+00	±	1.12E+01	1.44E+01
CS-134		1.43E+00	±	1.07E+01	1.57E+01
CS-137		9.40E+00	±	9.96E+00	1.32E+01
FE-59		1.56E+01	±	2.56E+01	3.41E+01
I-131		0.00E+00	±	6.86E+00	1.85E+01
K-40	+	3.46E+03	±	3.58E+02	1.59E+02
MN-54		-2.96E+00	±	1.23E+01	1.74E+01
ZN-65		6.58E+00	±	2.54E+01	3.55E+01
ZRNB-95		5.17E+00	±	1.61E+01	2.32E+01

Station 9C Broad Leaf Vegetable collected 6/20/2025

Nuclide	RQ	Activity	±	Error	MDA
BALA140		-8.09E+00	±	2.46E+01	3.04E+01
CO-58		-9.92E+00	±	2.10E+01	2.65E+01
CO-60		5.77E+00	±	1.63E+01	2.05E+01
CS-134		-8.54E+00	±	2.19E+01	3.69E+01
CS-137		1.63E+00	±	1.88E+01	2.53E+01
FE-59		-4.63E+00	±	4.64E+01	5.91E+01
I-131		-9.88E+00	±	2.30E+01	3.06E+01
K-40	+	3.64E+03	±	5.39E+02	2.01E+02
MN-54		-4.51E+00	±	1.88E+01	2.43E+01
ZN-65		-3.57E+01	±	5.91E+01	7.17E+01
ZRNB-95		1.16E+01	±	2.25E+01	2.91E+01

RQ = Results Qualifier. If blank, result is less than detection limit. If "+", result is above detection limit.

TABLE A-17.1

GAMMA SPECTROMETRY RESULTS OF VEGETABLES

Results in pCi/ kilogram (wet)

Stations 37 and 48G are Indicators - Station 9C is Control

Station 9C Broad Leaf Vegetable collected 8/1/2025

Nuclide	RQ	Activity		Error	MDA
BALA140		0.00E+00	±	4.15E+00	1.08E+01
CO-58		-5.57E+00	±	1.45E+01	1.98E+01
CO-60		7.20E+00	±	1.37E+01	1.80E+01
CS-134		0.00E+00	±	5.25E+00	1.59E+01
CS-137		5.15E+00	±	1.18E+01	1.67E+01
FE-59		-2.86E+00	±	4.63E+01	6.22E+01
I-131		-3.35E+00	±	1.72E+01	2.48E+01
K-40	+	2.31E+03	±	3.35E+02	2.01E+02
MN-54		-2.83E+00	±	1.48E+01	2.05E+01
ZN-65		-5.20E+00	±	2.74E+01	3.80E+01
ZRNB-95		4.94E+00	±	1.39E+01	2.06E+01

RQ = Results Qualifier. If blank, result is less than detection limit. If "+", result is above detection limit.

TABLE A-17.2

GAMMA SPECTROMETRY RESULTS OF VEGETABLES - SUMMARY

Results in pCi/ kilogram (wet)

Nuclide		Average Activity	Activity Low	Activity High	Average MDA	Number of Samples	Number of Positive IDs
BALA140	Ind	-1.11E+00	-7.21E+00	4.15E+00	2.45E+01	7	0
BALA140	Cntl	-4.04E+00	-8.09E+00	0.00E+00	2.06E+01	2	0
CO-58	Ind	-2.27E-01	-3.19E+00	3.22E+00	1.98E+01	7	0
CO-58	Cntl	-7.75E+00	-9.92E+00	-5.57E+00	2.31E+01	2	0
CO-60	Ind	3.33E+00	-2.29E+00	8.98E+00	2.00E+01	7	0
CO-60	Cntl	6.48E+00	5.77E+00	7.20E+00	1.93E+01	2	0
CS-134	Ind	2.16E-02	-8.90E+00	6.72E+00	1.95E+01	7	0
CS-134	Cntl	-4.27E+00	-8.54E+00	0.00E+00	2.64E+01	2	0
CS-137	Ind	3.09E+00	-9.21E+00	9.72E+00	2.06E+01	7	0
CS-137	Cntl	3.39E+00	1.63E+00	5.15E+00	2.10E+01	2	0
FE-59	Ind	-2.66E+00	-3.62E+01	3.52E+01	6.10E+01	7	0
FE-59	Cntl	-3.74E+00	-4.63E+00	-2.86E+00	6.07E+01	2	0
I-131	Ind	-5.30E+00	-1.29E+01	2.81E+00	2.58E+01	7	0
I-131	Cntl	-6.61E+00	-9.88E+00	-3.35E+00	2.77E+01	2	0
K-40	Ind	3.85E+03	2.17E+03	7.10E+03	2.30E+02	7	7
K-40	Cntl	2.97E+03	2.31E+03	3.64E+03	2.01E+02	2	2
MN-54	Ind	8.07E-01	-6.70E+00	8.87E+00	1.97E+01	7	0
MN-54	Cntl	-3.67E+00	-4.51E+00	-2.83E+00	2.24E+01	2	0
ZN-65	Ind	-1.30E+00	-1.94E+01	2.06E+01	4.78E+01	7	0
ZN-65	Cntl	-2.04E+01	-3.57E+01	-5.20E+00	5.49E+01	2	0
ZRNB-95	Ind	7.58E-01	-1.38E+01	1.81E+01	3.63E+01	7	0
ZRNB-95	Cntl	8.29E+00	4.94E+00	1.16E+01	2.48E+01	2	0

Ind = Indicator Stations Cntl = Control Stations

TABLE B-1.1

2025 QUARTERLY SPECIAL INTEREST DOSIMETER RESULTS

Results in milli-Roentgen (mR) per Standard Quarter

Station ID	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Quarterly Sum
58	28.7	25.2	29.5	30.0	113.4
88	34.4	27.1	33.2	36.7	131.4
89	30.6	25.2	35.0	36.7	127.4
91	32.5	29.1	33.2	33.8	128.6
92	34.4	26.2	36.8	36.7	134.0
93	35.4	27.1	37.7	39.5	139.7
94	33.5	30.1	34.1	41.4	139.0
95	35.4	26.2	33.2	39.5	134.2
119B	25.8	30.1	29.5	30.0	115.5
119Ctrl	34.4	31.1	28.6	36.7	130.8
121	88.0	34.1	93.0	86.8	301.8
122	34.4	38.0	35.0	38.5	146.0
123 (ISFSI)	67.1	69.5	71.5	79.2	287.3
124 (ISFSI)	78.5	80.8	73.4	78.3	311.0
125 (ISFSI)	65.3	61.9	59.2	67.9	254.2
126 (ISFSI)	93.6	89.3	92.3	95.3	370.6
127 (ISFSI)	75.7	69.5	77.2	84.9	307.2
128 (ISFSI)	108.8	97.8	116.0	109.5	432.1
129 (ISFSI)	98.4	87.4	94.2	96.2	376.3
130 (ISFSI)	99.3	93.1	108.4	113.3	414.1
131 (ISFSI)	90.8	70.4	85.7	93.4	340.3
136B(ISFSI)	141.9	132.8	139.6	160.6	574.9
137B (ISFSI)	201.5	201.9	191.7	205.0	800.1
138B (ISFSI)	158.9	146.1	173.7	172.9	651.6
139 (ISFSI)	44.4	41.1	52.6	54.6	192.7
140 (ISFSI)	41.6	35.4	44.1	51.8	172.9
141 (ISFSI)	43.5	34.5	34.6	47.1	159.6
142 (ISFSI)	36.9	27.8	37.5	41.4	143.6
143 (ISFSI)	35.9	27.8	38.4	40.4	142.6
144 (ISFSI)	34.0	28.8	31.8	39.5	134.1
145 (ISFSI)	35.9	29.7	33.7	34.8	134.1
146 (ISFSI)	39.7	29.7	39.4	36.7	145.4
147 (ISFSI)	41.6	40.1	44.1	47.1	172.9
148 (ISFSI)	54.8	53.4	53.5	59.4	221.1
150 (Site 1)	23.9	24.2	21.4	21.5	91.0
151 (Site 4)	25.8	26.2	26.8	29.1	107.9
155	32.5	30.1	28.6	31.0	122.2
156	31.5	31.1	34.1	35.7	132.4

TABLE B-1.2

2025 QUARTERLY SPECIAL INTEREST DOSIMETER RESULTS - SUMMARY

Results in milli-Roentgen (mR) per Standard Quarter

Location	Average Activity	Activity Low	Activity High	Number of Samples
ISFSI Quarterly Ind	76.6	27.8	205.0	88
SITE 1 & 4 Quarterly Ind	24.9	21.4	29.1	8
Quarterly Control Dosimeters	27.5	26.9	28.1	4

Stations 58, 88, and 89 were established in 2009 to monitor exposure from remediation work at the DOE 618-11 burial site.

Stations 91-95 were established in the 4th quarter 2024 to monitor exposure from remediation work at the DOE 618-11 burial site.

Station 121 results high due to location being near the turbine building. Station 122 results influenced by ISFSI.

Quarterly Control dosimeter location is ST-9. See Table A-1.1.

Stations 130 and 131 were added to the ISFSI fence in the 1st quarter 2017.

Stations 139-148 were added to the new ISFSI fence in the 1st quarter 2025.

Table B - 2.1

GAMMA SPECTROMETRY RESULTS OF STORM DRAIN WATER

STATION 101B

Results in pCi/liter, corrected for decay during collection period

Location ST-101B collected 2/3/2025

Nuclide	RQ	Activity		Error	MDA
BALA140		-4.98E+00	±	1.18E+01	1.50E+01
BI-214	+	1.60E+01	±	6.08E+00	6.90E+00
CO-58		-1.05E+00	±	3.40E+00	4.72E+00
CO-60		-1.94E+00	±	3.56E+00	4.88E+00
CR-51		-3.69E+00	±	4.07E+01	5.96E+01
CS-134		-7.94E-01	±	3.88E+00	6.56E+00
CS-137		1.92E-01	±	3.48E+00	4.85E+00
FE-59		7.00E+00	±	7.91E+00	1.00E+01
I-131		2.47E+00	±	1.28E+01	1.88E+01
K-40		5.27E+01	±	3.78E+01	5.28E+01
MN-54		-1.23E+00	±	3.72E+00	4.96E+00
ZN-65		-5.71E+00	±	9.23E+00	1.18E+01
ZRNB-95		-3.69E+00	±	6.72E+00	9.14E+00

Location ST-101B collected 3/3/2025

Nuclide	RQ	Activity		Error	MDA
BALA140		2.00E+00	±	8.74E+00	1.09E+01
BI-214		-2.53E-01	±	7.34E+00	1.02E+01
CO-58		1.46E+00	±	3.15E+00	4.19E+00
CO-60		-6.97E-02	±	3.10E+00	3.97E+00
CR-51		-8.71E+00	±	3.85E+01	5.42E+01
CS-134		-6.24E-01	±	3.19E+00	4.37E+00
CS-137		1.94E+00	±	3.49E+00	4.72E+00
FE-59		2.01E+00	±	8.04E+00	1.05E+01
I-131		3.03E+00	±	1.25E+01	1.77E+01
K-40	+	8.59E+01	±	2.79E+01	2.50E+01
MN-54		2.61E-01	±	2.84E+00	3.86E+00
ZN-65		4.24E-02	±	6.57E+00	8.53E+00
ZRNB-95		2.30E+00	±	5.90E+00	7.86E+00

Location ST-101B collected 4/2/2025

Nuclide	RQ	Activity		Error	MDA
BALA140		5.87E+00	±	8.34E+00	1.00E+01
BI-214	+	1.76E+01	±	5.23E+00	5.83E+00
CO-58		-1.96E+00	±	3.84E+00	5.07E+00
CO-60		1.02E+00	±	3.42E+00	4.26E+00
CR-51		-2.60E+00	±	3.62E+01	5.13E+01
CS-134		1.66E-01	±	3.46E+00	5.88E+00
CS-137		1.59E+00	±	3.36E+00	4.56E+00
FE-59		-8.29E+00	±	1.22E+01	1.51E+01
I-131		2.30E+00	±	1.19E+01	1.68E+01
K-40		-1.02E+01	±	4.44E+01	5.94E+01
MN-54		-3.82E-01	±	3.21E+00	4.33E+00
ZN-65		7.21E-01	±	6.24E+00	8.07E+00
ZRNB-95		-3.39E+00	±	7.07E+00	9.32E+00

Location ST-101B collected 5/1/2025

Nuclide	RQ	Activity		Error	MDA
BALA140		-2.41E+00	±	9.44E+00	1.16E+01
BI-214		-9.82E+00	±	7.19E+00	1.21E+01
CO-58		-1.29E+00	±	3.61E+00	4.80E+00
CO-60		6.96E-01	±	2.88E+00	3.65E+00
CR-51		8.16E+00	±	3.28E+01	4.62E+01
CS-134		-1.56E+00	±	3.69E+00	6.17E+00
CS-137		1.00E+00	±	3.34E+00	4.58E+00
FE-59		-7.58E+00	±	1.17E+01	1.46E+01
I-131		-6.27E+00	±	1.12E+01	1.56E+01
K-40		-2.33E+01	±	4.19E+01	5.75E+01
MN-54		1.88E+00	±	2.70E+00	3.53E+00
ZN-65		-4.68E+00	±	7.32E+00	9.10E+00
ZRNB-95		-2.00E+00	±	6.54E+00	8.71E+00

Location ST-101B collected 6/2/2025

Nuclide	RQ	Activity		Error	MDA
BALA140		3.09E-01	±	8.33E+00	1.04E+01
BI-214	+	2.32E+01	±	6.69E+00	6.79E+00
CO-58		9.43E-01	±	2.93E+00	3.93E+00
CO-60		2.50E+00	±	2.75E+00	3.29E+00
CR-51		-1.10E+01	±	3.14E+01	4.42E+01
CS-134		9.25E-01	±	3.53E+00	5.94E+00
CS-137		1.25E+00	±	2.77E+00	3.79E+00
FE-59		8.05E-01	±	8.19E+00	1.08E+01
I-131		3.05E+00	±	7.42E+00	1.04E+01
K-40		1.29E+01	±	4.10E+01	5.43E+01
MN-54		3.44E-01	±	2.53E+00	3.44E+00
ZN-65		4.82E+00	±	5.24E+00	6.43E+00
ZRNB-95		-5.41E-01	±	5.64E+00	7.65E+00

Location ST-101B collected 7/1/2025

Nuclide	RQ	Activity		Error	MDA
BALA140		1.17E+00	±	9.77E+00	1.25E+01
BI-214		8.07E+00	±	8.40E+00	1.12E+01
CO-58		-4.62E-01	±	3.31E+00	4.50E+00
CO-60		-4.87E-01	±	3.41E+00	4.43E+00
CR-51		-1.23E+01	±	3.58E+01	5.21E+01
CS-134		-2.24E+00	±	3.85E+00	5.19E+00
CS-137		3.12E+00	±	3.07E+00	4.05E+00
FE-59		3.21E+00	±	8.39E+00	1.09E+01
I-131		-5.71E-01	±	1.15E+01	1.65E+01
K-40		1.22E+01	±	4.24E+01	5.75E+01
MN-54		1.44E+00	±	2.67E+00	3.56E+00
ZN-65		-6.02E+00	±	9.31E+00	1.18E+01
ZRNB-95		-4.46E+00	±	7.58E+00	9.95E+00

RQ = Results Qualifier. If blank, result is less than detection limit. If "+", result is above detection limit.

Table B - 2.1

GAMMA SPECTROMETRY RESULTS OF STORM DRAIN WATER

STATION 101B

Results in pCi/liter, corrected for decay during collection period

Location ST-101B collected 7/31/2025

Nuclide	RQ	Activity		Error	MDA
BALA140		0.00E+00	±	6.11E+00	1.20E+01
BI-214		5.92E+00	±	8.10E+00	1.09E+01
CO-58		-7.79E-01	±	3.28E+00	4.43E+00
CO-60		7.68E-02	±	3.50E+00	4.58E+00
CR-51		-6.64E+00	±	3.30E+01	4.84E+01
CS-134		-1.59E+00	±	3.31E+00	4.49E+00
CS-137		1.47E+00	±	2.95E+00	4.03E+00
FE-59		1.30E+00	±	9.35E+00	1.22E+01
I-131		1.07E+00	±	1.01E+01	1.44E+01
K-40		-1.27E+01	±	4.19E+01	5.86E+01
MN-54		2.67E-01	±	2.86E+00	3.91E+00
ZN-65		-1.96E+00	±	6.58E+00	8.65E+00
ZRNB-95		2.48E+00	±	5.84E+00	7.79E+00

Location ST-101B collected 9/3/2025

Nuclide	RQ	Activity		Error	MDA
BALA140		-2.81E-01	±	6.64E+00	8.76E+00
BI-214	+	1.99E+01	±	7.04E+00	8.62E+00
CO-58		7.71E-01	±	3.09E+00	4.18E+00
CO-60		1.28E+00	±	2.60E+00	3.34E+00
CR-51		1.57E+01	±	3.13E+01	4.53E+01
CS-134		-1.81E+00	±	4.42E+00	7.38E+00
CS-137		-1.84E+00	±	3.59E+00	4.88E+00
FE-59		-1.88E+00	±	1.07E+01	1.39E+01
I-131		-7.96E-01	±	9.36E+00	1.33E+01
K-40		1.30E+00	±	4.28E+01	5.86E+01
MN-54		-4.00E-01	±	2.87E+00	3.90E+00
ZN-65		-4.68E+00	±	8.08E+00	1.35E+01
ZRNB-95		2.82E+00	±	5.53E+00	7.35E+00

Location ST-101B collected 10/1/2025

Nuclide	RQ	Activity		Error	MDA
BALA140		-4.37E-01	±	1.46E+01	2.02E+01
BI-214		1.24E+01	±	1.24E+01	1.71E+01
CO-58		-5.89E-01	±	5.83E+00	8.13E+00
CO-60		1.78E+00	±	3.51E+00	4.68E+00
CR-51		-1.11E+01	±	5.45E+01	8.14E+01
CS-134		-3.45E+00	±	6.00E+00	8.15E+00
CS-137		-3.51E+00	±	6.36E+00	8.69E+00
FE-59		6.69E+00	±	1.11E+01	1.46E+01
I-131		5.52E+00	±	1.79E+01	2.59E+01
K-40		5.97E+00	±	5.86E+01	8.86E+01
MN-54		-2.03E+00	±	5.78E+00	7.83E+00
ZN-65		-2.15E+00	±	1.05E+01	1.44E+01
ZRNB-95		-4.63E+00	±	1.19E+01	1.60E+01

Location ST-101B collected 11/3/2025

Nuclide	RQ	Activity		Error	MDA
BALA140		4.13E+00	±	5.81E+00	7.18E+00
BI-214	+	1.30E+01	±	8.03E+00	1.04E+01
CO-58		-2.22E+00	±	3.86E+00	5.07E+00
CO-60		-1.97E+00	±	3.64E+00	4.58E+00
CR-51		1.94E+01	±	3.02E+01	4.34E+01
CS-134		-2.24E+00	±	3.84E+00	5.17E+00
CS-137		9.19E-02	±	3.00E+00	4.22E+00
FE-59		3.35E+00	±	8.89E+00	1.14E+01
I-131		-2.86E+00	±	9.14E+00	1.29E+01
K-40		1.27E+01	±	3.82E+01	5.26E+01
MN-54		-1.33E-01	±	2.91E+00	3.98E+00
ZN-65		-5.11E+00	±	8.30E+00	1.06E+01
ZRNB-95		-7.49E-02	±	5.71E+00	7.83E+00

Location ST-101B collected 12/1/2025

Nuclide	RQ	Activity		Error	MDA
BALA140		3.12E+00	±	6.27E+00	7.75E+00
BI-214		-3.13E+00	±	6.49E+00	9.58E+00
CO-58		8.99E-02	±	3.04E+00	4.10E+00
CO-60		8.48E-01	±	2.72E+00	3.48E+00
CR-51		5.76E+00	±	2.97E+01	4.32E+01
CS-134		-1.74E+00	±	3.01E+00	4.05E+00
CS-137		-1.83E+00	±	3.42E+00	4.61E+00
FE-59		6.48E+00	±	8.19E+00	1.01E+01
I-131		-1.66E+00	±	8.05E+00	1.13E+01
K-40		-7.90E+00	±	3.92E+01	5.74E+01
MN-54		4.22E-01	±	2.95E+00	3.95E+00
ZN-65		-2.36E-01	±	6.47E+00	8.50E+00
ZRNB-95		-9.16E-01	±	5.46E+00	7.52E+00

Location ST-101B collected 1/5/2026

Nuclide	RQ	Activity		Error	MDA
BALA140		-2.93E+00	±	8.51E+00	1.07E+01
BI-214		9.57E+00	±	8.01E+00	1.06E+01
CO-58		-2.22E+00	±	4.14E+00	5.44E+00
CO-60		8.96E-01	±	2.20E+00	2.88E+00
CR-51		-1.29E+01	±	3.22E+01	4.67E+01
CS-134		-2.04E+00	±	3.52E+00	4.74E+00
CS-137		1.29E+00	±	2.97E+00	4.08E+00
FE-59		-3.33E+00	±	1.02E+01	1.31E+01
I-131		-4.12E+00	±	1.03E+01	1.45E+01
K-40		1.35E+01	±	4.25E+01	5.75E+01
MN-54		9.73E-01	±	2.77E+00	3.73E+00
ZN-65		1.68E+00	±	5.71E+00	7.56E+00
ZRNB-95		1.70E+00	±	6.25E+00	8.40E+00

RQ = Results Qualifier. If blank, result is less than detection limit. If "+", result is above detection limit.

TABLE B-2.2

GAMMA SPECTROMETRY RESULTS OF STORTM DRAIN WATER - SUMMARY

STATION 101B

Results in pCi/liter, corrected for decay during collection period

Nuclide	Average Activity	Activity Low	Activity High	Average MDA	Number of Samples	Number of Positive IDs
BALA140	4.62E-01	-4.98E+00	5.87E+00	1.14E+01	12	0
BI-214	9.37E+00	-9.82E+00	2.32E+01	1.00E+01	12	5
CO-58	-6.08E-01	-2.22E+00	1.46E+00	4.88E+00	12	0
CO-60	3.87E-01	-1.97E+00	2.50E+00	4.00E+00	12	0
CR-51	-1.66E+00	-1.29E+01	1.94E+01	5.13E+01	12	0
CS-134	-1.42E+00	-3.45E+00	9.25E-01	5.68E+00	12	0
CS-137	3.98E-01	-3.51E+00	3.12E+00	4.76E+00	12	0
FE-59	-3.59E-02	-8.29E+00	7.00E+00	1.18E+01	12	0
I-131	9.58E-02	-6.27E+00	5.52E+00	1.57E+01	12	0
K-40	1.19E+01	-2.33E+01	8.59E+01	5.66E+01	12	1
MN-54	1.18E-01	-2.03E+00	1.88E+00	4.25E+00	12	0
ZN-65	-1.94E+00	-6.02E+00	4.82E+00	9.91E+00	12	0
ZRNB-95	-8.66E-01	-4.63E+00	2.82E+00	8.96E+00	12	0

TABLE B-3.1
GROSS BETA IN STORM DRAIN WATER
Results in pCi/liter

Location	Collection Period	RQ	Activity		Error	MDA
ST-101B	1/6/2025 - 2/3/2025		3.65E-01	±	6.10E-01	2.05E+00
	2/3/2025 - 3/3/2025	+	6.03E+00	±	9.79E-01	2.21E+00
	3/3/2025 - 4/2/2025		1.86E+00	±	6.36E-01	1.87E+00
	4/2/2025 - 5/1/2025	+	3.19E+00	±	7.94E-01	2.14E+00
	5/1/2025 - 6/2/2025	+	2.97E+00	±	7.38E-01	1.95E+00
	6/2/2025 - 7/1/2025		8.10E-01	±	6.11E-01	1.97E+00
	7/1/2025 - 7/31/2025		-1.85E-01	±	5.93E-01	2.10E+00
	7/31/2025 - 9/3/2025		1.90E+00	±	7.91E-01	2.37E+00
	9/3/2025 - 10/1/2025	+	2.39E+00	±	7.89E-01	2.19E+00
	10/1/2025 - 11/3/2025	+	3.98E+00	±	8.95E-01	2.22E+00
	11/3/2025 - 12/1/2025		-7.74E-02	±	5.40E-01	1.97E+00
	12/1/2025 - 1/5/2026		7.07E-02	±	6.27E-01	2.19E+00

TABLE B-3.2
GROSS BETA IN STORM DRAIN WATER - SUMMARY
Results in pCi/liter

Average Activity	Activity Low	Activity High	Number of Samples	Number of Positive IDs
1.94E+00	-1.85E-01	6.03E+00	12	5

TABLE B-4.1
TRITIUM IN STORM DRAIN WATER
Results in pCi/liter

Location	Collection Period	RQ	Activity		Error
ST-101B	1/6/2025 - 2/3/2025	+	2.02E+04	±	3.61E+02
	2/3/2025 - 3/3/2025	+	3.16E+04	±	4.39E+02
	3/3/2025 - 4/2/2025	+	3.73E+03	±	1.71E+02
	4/2/2025 - 5/1/2025	+	5.91E+02	±	1.03E+02
	5/1/2025 - 6/2/2025		8.11E+01	±	9.13E+01
	6/2/2025 - 7/1/2025		2.08E+02	±	9.64E+01
	7/1/2025 - 7/31/2025	+	7.26E+02	±	1.07E+02
	7/31/2025 - 9/3/2025	+	3.63E+02	±	1.30E+02
	9/3/2025 - 10/1/2025		7.60E+01	±	1.14E+02
	10/1/2025 - 11/3/2025		2.29E+02	±	9.42E+01
	11/3/2025 - 12/1/2025	+	4.33E+03	±	1.82E+02
	12/1/2025 - 1/5/2026	+	3.52E+03	±	1.69E+02

TABLE B-4.2
TRITIUM IN STORM DRAIN WATER - SUMMARY
Results in pCi/liter

Average Activity	Activity Low	Activity High	Number of Samples	Number of Positive IDs
5.47E+03	7.60E+01	3.16E+04	12	8

RQ = Results Qualifier. If blank, result is less than detection limit. If "+", result is above detection limit.

TABLE B-5.1

GROSS ALPHA IN SANITARY WASTE TREATMENT WATER

Results in pCi/liter

STATION 102B - SWTF Headworks

Collection Period			RQ	Activity		Error	MDA
1/6/2025	-	2/3/2025		1.50E+00	±	8.64E-01	2.70E+00
2/3/2025	-	3/3/2025		6.73E-01	±	1.31E+00	5.17E+00
3/3/2025	-	4/2/2025		4.10E-01	±	7.38E-01	3.05E+00
4/2/2025	-	5/1/2025		1.43E+00	±	9.71E-01	3.23E+00
5/1/2025	-	6/2/2025		7.14E-01	±	8.25E-01	3.22E+00
6/2/2025	-	7/1/2025		8.04E-01	±	6.67E-01	2.38E+00
7/1/2025	-	7/31/2025		-5.94E-01	±	5.94E-01	2.21E+00
7/31/2025	-	9/3/2025		1.11E+00	±	7.48E-01	2.49E+00
9/3/2025	-	10/1/2025		-5.62E-01	±	8.28E-01	3.23E+00
10/1/2025	-	11/3/2025	+	3.33E+00	±	1.21E+00	3.28E+00
11/3/2025	-	12/1/2025		-3.34E-01	±	6.57E-01	2.69E+00
12/1/2025	-	1/5/2026		1.01E+00	±	8.33E-01	2.95E+00

TABLE B-5.2

GROSS ALPHA IN SANITARY WASTE TREATMENT WATER - SUMMARY

Results in pCi/liter

Location	Average Activity	Activity Low	Activity High	Number of Samples	Number of Positive IDs
ST-102B	7.90E-01	-5.94E-01	3.33E+00	12	1

TABLE B-6.1

GROSS BETA IN SANITARY WASTE TREATMENT WATER

Results in pCi/liter

STATION 102B - SWTF Headworks

Collection Period			RQ	Activity		Error	MDA
1/6/2025	-	2/3/2025	+	1.74E+01	±	1.52E+00	2.62E+00
2/3/2025	-	3/3/2025	+	2.66E+01	±	2.14E+00	3.73E+00
3/3/2025	-	4/2/2025	+	1.82E+01	±	1.57E+00	2.80E+00
4/2/2025	-	5/1/2025	+	2.03E+01	±	1.85E+00	3.34E+00
5/1/2025	-	6/2/2025	+	1.21E+01	±	1.47E+00	2.98E+00
6/2/2025	-	7/1/2025	+	1.05E+01	±	1.23E+00	2.41E+00
7/1/2025	-	7/31/2025	+	1.04E+01	±	1.15E+00	2.31E+00
7/31/2025	-	9/3/2025	+	1.58E+01	±	1.48E+00	2.86E+00
9/3/2025	-	10/1/2025	+	1.53E+01	±	1.46E+00	2.84E+00
10/1/2025	-	11/3/2025	+	2.07E+01	±	1.62E+00	2.68E+00
11/3/2025	-	12/1/2025	+	5.18E+00	±	9.44E-01	2.36E+00
12/1/2025	-	1/5/2026	+	1.20E+01	±	1.33E+00	2.76E+00

TABLE B-6.2

GROSS BETA IN SANITARY WASTE TREATMENT WATER - SUMMARY

Results in pCi/liter

Location	Average Activity	Activity Low	Activity High	Number of Samples	Number of Positive IDs
ST-102B	1.54E+01	5.18E+00	2.66E+01	12	12

RQ = Results Qualifier. If blank, result is less than detection limit. If "+", result is above detection limit.

Table B-7.1

GAMMA SPECTROMETRY RESULTS OF SANITARY WASTE TREATMENT WATER

STATION 102B

Results in pCi/liter, corrected for decay during collection period

Location ST-102B collected 2/3/2025

Nuclide	RQ	Activity		Error	MDA
BALA140		6.47E+00	±	1.66E+01	2.10E+01
BI-214	+	3.35E+01	±	7.41E+00	8.59E+00
CO-58		3.17E+00	±	4.65E+00	6.24E+00
CO-60		4.58E+00	±	3.66E+00	4.64E+00
CR-51		1.37E+01	±	5.86E+01	8.46E+01
CS-134		-2.39E+00	±	4.97E+00	8.26E+00
CS-137		4.89E+00	±	4.63E+00	6.12E+00
FE-59		3.52E+00	±	1.30E+01	1.68E+01
I-131		-3.86E+00	±	3.53E+01	5.13E+01
K-40	+	2.17E+02	±	5.47E+01	6.38E+01
MN-54		-2.23E+00	±	4.40E+00	5.75E+00
ZN-65		-7.08E+00	±	1.12E+01	1.42E+01
ZRNB-95		3.72E+00	±	8.46E+00	1.14E+01

Location ST-102B collected 3/3/2025

Nuclide	RQ	Activity		Error	MDA
BALA140		-1.59E+01	±	2.31E+01	2.86E+01
BI-214	+	3.18E+01	±	7.93E+00	9.52E+00
CO-58		2.93E+00	±	4.69E+00	6.30E+00
CO-60		4.35E+00	±	3.71E+00	4.72E+00
CR-51		4.36E+00	±	6.18E+01	8.97E+01
CS-134		1.04E+00	±	5.03E+00	8.41E+00
CS-137		1.53E+00	±	4.63E+00	6.25E+00
FE-59		5.81E+00	±	1.24E+01	1.60E+01
I-131		-1.65E+01	±	4.11E+01	5.92E+01
K-40	+	2.04E+02	±	6.12E+01	7.05E+01
MN-54		-1.93E-01	±	4.39E+00	5.83E+00
ZN-65		-7.78E+00	±	1.23E+01	1.55E+01
ZRNB-95		1.31E+00	±	9.03E+00	1.23E+01

Location ST-102B collected 4/2/2025

Nuclide	RQ	Activity		Error	MDA
BALA140		-2.71E+00	±	1.34E+01	1.70E+01
BI-214	+	3.15E+01	±	8.15E+00	9.29E+00
CO-58		-2.91E+00	±	4.97E+00	6.67E+00
CO-60		7.62E-01	±	4.28E+00	5.66E+00
CR-51		1.10E+01	±	5.18E+01	7.48E+01
CS-134		2.46E-01	±	4.83E+00	8.11E+00
CS-137		5.14E+00	±	3.97E+00	5.19E+00
FE-59		6.31E+00	±	1.23E+01	1.58E+01
I-131		6.06E+00	±	2.01E+01	2.90E+01
K-40	+	2.17E+02	±	5.81E+01	6.61E+01
MN-54		2.10E+00	±	4.21E+00	5.50E+00
ZN-65		-7.75E+00	±	1.23E+01	1.55E+01
ZRNB-95		-9.10E-01	±	8.20E+00	1.12E+01

Location ST-102B collected 5/1/2025

Nuclide	RQ	Activity		Error	MDA
BALA140		-3.42E+00	±	1.30E+01	1.56E+01
BI-214	+	4.10E+01	±	1.01E+01	1.09E+01
CO-58		-9.89E-01	±	4.83E+00	6.19E+00
CO-60		-1.96E+00	±	5.06E+00	6.13E+00
CR-51		-3.14E+01	±	5.51E+01	7.61E+01
CS-134		-2.76E+00	±	5.56E+00	9.23E+00
CS-137		3.95E-01	±	4.48E+00	5.91E+00
FE-59		8.67E-01	±	1.34E+01	1.65E+01
I-131		-1.10E+01	±	1.92E+01	2.65E+01
K-40	+	2.42E+02	±	4.43E+01	3.88E+01
MN-54		-3.74E-01	±	4.57E+00	5.86E+00
ZN-65		-1.90E+00	±	9.04E+00	1.13E+01
ZRNB-95		2.01E+00	±	8.75E+00	1.15E+01

Location ST-102B collected 6/2/2025

Nuclide	RQ	Activity		Error	MDA
BALA140		5.13E+00	±	8.83E+00	1.07E+01
BI-214		4.85E+00	±	1.24E+01	1.48E+01
CO-58		-5.05E-01	±	4.41E+00	5.85E+00
CO-60		1.55E+00	±	3.66E+00	4.58E+00
CR-51		-1.03E+01	±	4.60E+01	6.65E+01
CS-134		-2.89E+00	±	4.88E+00	6.52E+00
CS-137		1.97E+00	±	3.79E+00	5.10E+00
FE-59		-7.45E+00	±	1.29E+01	1.59E+01
I-131		4.30E+00	±	1.33E+01	1.85E+01
K-40		1.50E+01	±	6.56E+01	7.25E+01
MN-54		-1.46E+00	±	4.18E+00	5.48E+00
ZN-65		-6.92E+00	±	1.04E+01	1.31E+01
ZRNB-95		5.21E+00	±	7.46E+00	9.69E+00

Location ST-102B collected 7/1/2025

Nuclide	RQ	Activity		Error	MDA
BALA140		-9.12E+00	±	1.35E+01	1.67E+01
BI-214	+	2.84E+01	±	8.78E+00	1.03E+01
CO-58		1.74E+00	±	4.15E+00	5.63E+00
CO-60		-2.14E+00	±	4.36E+00	5.86E+00
CR-51		-2.60E+01	±	5.04E+01	7.23E+01
CS-134		-6.98E-01	±	5.01E+00	8.38E+00
CS-137		2.99E+00	±	3.99E+00	5.50E+00
FE-59		8.77E+00	±	1.18E+01	1.49E+01
I-131		-2.11E+00	±	1.69E+01	2.45E+01
K-40	+	1.56E+02	±	5.07E+01	6.37E+01
MN-54		-7.94E-01	±	3.87E+00	5.27E+00
ZN-65		-3.48E-02	±	8.08E+00	1.08E+01
ZRNB-95		8.81E-01	±	7.89E+00	1.08E+01

RQ = Results Qualifier. If blank, result is less than detection limit. If "+", result is above detection limit.

Table B-7.1

GAMMA SPECTROMETRY RESULTS OF SANITARY WASTE TREATMENT WATER

STATION 102B

Results in pCi/liter, corrected for decay during collection period

Location ST-102B collected 7/31/2025

Nuclide	RQ	Activity	±	Error	MDA
BALA140		2.24E-01	±	1.06E+01	1.36E+01
BI-214	+	3.84E+01	±	9.16E+00	1.02E+01
CO-58		-1.30E+00	±	4.50E+00	6.11E+00
CO-60		-6.62E-01	±	4.19E+00	5.61E+00
CR-51		8.16E+00	±	4.81E+01	6.94E+01
CS-134		7.14E-01	±	5.06E+00	8.47E+00
CS-137		2.62E+00	±	4.06E+00	5.62E+00
FE-59		4.12E+00	±	1.27E+01	1.63E+01
I-131		-1.42E+00	±	1.48E+01	2.14E+01
K-40	+	1.89E+02	±	5.35E+01	6.42E+01
MN-54		5.75E-01	±	3.89E+00	5.32E+00
ZN-65		-5.19E+00	±	9.27E+00	1.21E+01
ZRNB-95		-5.06E+00	±	8.59E+00	1.15E+01

Location ST-102B collected 9/3/2025

Nuclide	RQ	Activity	±	Error	MDA
BALA140		-3.80E+00	±	1.08E+01	1.35E+01
BI-214	+	4.18E+01	±	8.41E+00	9.45E+00
CO-58		5.66E-01	±	4.12E+00	5.64E+00
CO-60		2.85E+00	±	3.65E+00	4.74E+00
CR-51		1.33E+01	±	4.51E+01	6.50E+01
CS-134		1.70E+00	±	5.16E+00	8.59E+00
CS-137		1.57E+00	±	4.12E+00	5.75E+00
FE-59		-2.45E+00	±	1.25E+01	1.62E+01
I-131		3.52E+00	±	1.25E+01	1.80E+01
K-40	+	1.80E+02	±	5.31E+01	6.45E+01
MN-54		-5.74E-01	±	4.01E+00	5.47E+00
ZN-65		-3.01E+00	±	8.60E+00	1.13E+01
ZRNB-95		3.42E+00	±	7.80E+00	1.05E+01

Location ST-102B collected 10/1/2025

Nuclide	RQ	Activity	±	Error	MDA
BALA140		1.82E+00	±	1.01E+01	1.25E+01
BI-214	+	3.71E+01	±	7.54E+00	8.80E+00
CO-58		-1.11E+00	±	4.45E+00	5.86E+00
CO-60		2.78E-01	±	3.92E+00	4.97E+00
CR-51		-8.51E+00	±	4.61E+01	6.67E+01
CS-134		-1.71E+00	±	4.97E+00	8.28E+00
CS-137		-8.03E-01	±	4.41E+00	5.99E+00
FE-59		-1.30E+00	±	1.13E+01	1.43E+01
I-131		7.27E+00	±	1.53E+01	2.12E+01
K-40		1.95E+01	±	6.60E+01	7.30E+01
MN-54		1.34E+00	±	4.02E+00	5.28E+00
ZN-65		-6.34E+00	±	9.57E+00	1.21E+01
ZRNB-95		1.37E+00	±	7.76E+00	1.03E+01

Location ST-102B collected 11/3/2025

Nuclide	RQ	Activity	±	Error	MDA
BALA140		1.68E+00	±	1.21E+01	1.54E+01
BI-214	+	2.44E+01	±	9.75E+00	1.21E+01
CO-58		1.28E+00	±	4.30E+00	5.85E+00
CO-60		1.90E-02	±	4.33E+00	5.75E+00
CR-51		-1.93E+01	±	5.46E+01	7.86E+01
CS-134		-1.11E+00	±	5.24E+00	8.74E+00
CS-137		2.32E+00	±	4.34E+00	6.02E+00
FE-59		4.35E+00	±	1.24E+01	1.59E+01
I-131		-2.85E+00	±	2.03E+01	2.94E+01
K-40	+	1.66E+02	±	5.63E+01	6.83E+01
MN-54		1.81E+00	±	3.88E+00	5.23E+00
ZN-65		-5.46E+00	±	9.70E+00	1.61E+01
ZRNB-95		3.32E+00	±	7.88E+00	1.07E+01

Location ST-102B collected 12/1/2025

Nuclide	RQ	Activity	±	Error	MDA
BALA140		1.55E+00	±	9.63E+00	1.19E+01
BI-214	+	2.44E+01	±	1.21E+01	1.33E+01
CO-58		-2.43E+00	±	4.62E+00	6.03E+00
CO-60		3.25E+00	±	3.69E+00	4.51E+00
CR-51		2.78E+00	±	4.52E+01	6.55E+01
CS-134		-2.45E+00	±	5.43E+00	9.01E+00
CS-137		4.84E+00	±	4.53E+00	5.98E+00
FE-59		7.59E-01	±	1.17E+01	1.48E+01
I-131		-2.05E+00	±	1.32E+01	1.85E+01
K-40		1.48E+01	±	6.52E+01	7.21E+01
MN-54		-1.22E-01	±	4.15E+00	5.50E+00
ZN-65		-2.08E-01	±	9.09E+00	1.54E+01
ZRNB-95		4.21E+00	±	7.85E+00	1.02E+01

Location ST-102B collected 1/5/2026

Nuclide	RQ	Activity	±	Error	MDA
BALA140		-1.06E+00	±	9.86E+00	1.22E+01
BI-214	+	3.69E+01	±	8.58E+00	9.86E+00
CO-58		-1.07E+00	±	4.50E+00	5.93E+00
CO-60		1.27E+00	±	4.01E+00	5.03E+00
CR-51		-5.81E+00	±	4.61E+01	6.67E+01
CS-134		1.31E+00	±	5.18E+00	8.64E+00
CS-137		4.42E+00	±	4.29E+00	5.67E+00
FE-59		2.32E+00	±	1.20E+01	1.51E+01
I-131		-1.69E-01	±	1.33E+01	1.86E+01
K-40		2.08E+01	±	6.54E+01	7.21E+01
MN-54		-6.64E-01	±	4.18E+00	5.52E+00
ZN-65		-2.51E+00	±	8.96E+00	1.15E+01
ZRNB-95		-2.94E+00	±	8.84E+00	1.16E+01

RQ = Results Qualifier. If blank, result is less than detection limit. If "+", result is above detection limit.

TABLE B-7.2

GAMMA SPECTROMETRY RESULTS OF SANITARY WASTE TREATMENT WATER - SUMMARY

STATION 102B

Results in pCi/liter, corrected for decay during collection period

Nuclide	Average Activity	Activity Low	Activity High	Average MDA	Number of Samples	Number of Positive IDs
BALA140	-1.60E+00	-1.59E+01	6.47E+00	1.57E+01	12	0
BI-214	3.12E+01	4.85E+00	4.18E+01	1.06E+01	12	11
CO-58	-5.25E-02	-2.91E+00	3.17E+00	6.02E+00	12	0
CO-60	1.18E+00	-2.14E+00	4.58E+00	5.18E+00	12	0
CR-51	-4.01E+00	-3.14E+01	1.37E+01	7.30E+01	12	0
CS-134	-7.50E-01	-2.89E+00	1.70E+00	8.39E+00	12	0
CS-137	2.66E+00	-8.03E-01	5.14E+00	5.76E+00	12	0
FE-59	2.18E+00	-7.45E+00	8.77E+00	1.50E+01	12	0
I-131	-1.56E+00	-1.65E+01	7.27E+00	2.80E+01	12	0
K-40	1.37E+02	1.48E+01	2.42E+02	6.58E+01	12	8
MN-54	-4.85E-02	-2.23E+00	2.10E+00	5.50E+00	12	0
ZN-65	-4.52E+00	-7.78E+00	-3.48E-02	1.32E+01	12	0
ZRNB-95	1.38E+00	-5.06E+00	5.21E+00	1.10E+01	12	0

TABLE B-8.1

TRITIUM IN SANITARY WASTE TREATMENT WATER

Results in pCi/liter, MDA for all samples is 300 pCi/liter

Station	Description	Collection Period			RQ	Activity		Error
102B	SWTF Headworks	1/6/2025	-	2/3/2025		9.57E+01	±	9.63E+01
		2/3/2025	-	3/3/2025		1.24E+02	±	8.89E+01
		3/3/2025	-	4/2/2025		1.18E+02	±	9.12E+01
		4/2/2025	-	5/1/2025		5.41E+01	±	8.74E+01
		5/1/2025	-	6/2/2025		2.93E+01	±	8.76E+01
		6/2/2025	-	7/1/2025		-1.69E+00	±	8.62E+01
		7/1/2025	-	7/31/2025		4.17E+01	±	8.65E+01
		7/31/2025	-	9/3/2025		3.38E+01	±	1.21E+02
		9/3/2025	-	10/1/2025		-1.52E+01	±	1.07E+02
		10/1/2025	-	11/3/2025		1.46E+01	±	8.86E+01
		11/3/2025	-	12/1/2025		1.01E+01	±	8.53E+01
		12/1/2025	-	1/5/2026		8.95E+01	±	9.14E+01

TABLE B-8.2

TRITIUM IN SANITARY WASTE TREATMENT WATER - SUMMARY

Results in pCi/liter

Station	Description	Average Activity	Activity Low	Activity High	Number of Samples	Number of Positive IDs
102B	SWTF Headworks	4.95E+01	-1.52E+01	1.24E+02	12	0

RQ = Results Qualifier. If blank, results is less than detection limit. If "+", result is above the detection limit.

TABLE B-9.1

GAMMA SPECTROMETRY RESULTS OF CGS POST DISPOSAL COOLING TOWER SEDIMENT

Results in pCi/kilogram dry material

Location and Date				119B-2019 cell	5/27/2025
Nuclide	**RQ**	**Activity**		**Error**	**MDA**
BALA140		-2.52E+01	±	8.33E+01	1.10E+02
BE-7	+	1.01E+04	±	8.39E+02	3.65E+02
BI-214	+	7.11E+02	±	1.25E+02	1.15E+02
CO-58		5.91E+00	±	3.86E+01	5.56E+01
CO-60	+	1.29E+02	±	4.18E+01	3.51E+01
CR-51		3.05E+02	±	4.61E+02	6.64E+02
CS-134		-2.57E+01	±	8.29E+01	1.39E+02
CS-137		1.03E+02	±	7.09E+01	1.21E+02
FE-59		-2.67E+01	±	1.60E+02	2.14E+02
K-40	+	1.01E+04	±	1.06E+03	4.35E+02
MN-54		3.38E+01	±	4.43E+01	5.97E+01
ZN-65		-6.97E+01	±	1.52E+02	2.56E+02
ZRNB-95		2.07E+01	±	8.31E+01	1.17E+02

Location and Date				119B-2025 cell	5/27/2025
Nuclide	**RQ**	**Activity**		**Error**	**MDA**
BALA140		-2.90E+00	±	4.77E+01	6.53E+01
BE-7	+	6.56E+02	±	2.76E+02	3.55E+02
BI-214	+	6.04E+02	±	1.01E+02	9.33E+01
CO-58		7.60E+00	±	3.42E+01	4.80E+01
CO-60		1.37E+00	±	3.87E+01	5.27E+01
CR-51		-1.36E+02	±	3.37E+02	4.90E+02
CS-134		-3.08E+00	±	5.86E+01	9.91E+01
CS-137		3.99E+01	±	4.29E+01	5.70E+01
FE-59		5.89E+01	±	9.02E+01	1.17E+02
K-40	+	1.50E+04	±	1.08E+03	3.64E+02
MN-54		4.83E+00	±	3.08E+01	4.35E+01
ZN-65		-4.48E+01	±	1.07E+02	1.79E+02
ZRNB-95		2.88E+01	±	5.64E+01	7.76E+01

RQ = Results Qualifier. If blank, result is less than detection limit. If "+", result is above detection limit.

TABLE B-9.2

GAMMA SPECTROMETRY RESULTS OF CGS POST DISPOSAL COOLING TOWER SEDIMENT - SUMMARY

Results in pCi/kilogram dry material

Nuclide	Average Activity	Activity Low	Activity High	Average MDA	Number of Samples	Number of Positive IDs
BALA140	-1.41E+01	-2.52E+01	-2.90E+00	8.75E+01	2	0
BE-7	5.40E+03	6.56E+02	1.01E+04	3.60E+02	2	2
BI-214	6.57E+02	6.04E+02	7.11E+02	1.04E+02	2	2
CO-58	6.75E+00	5.91E+00	7.60E+00	5.18E+01	2	0
CO-60	6.54E+01	1.37E+00	1.29E+02	4.39E+01	2	1
CR-51	8.48E+01	-1.36E+02	3.05E+02	5.77E+02	2	0
CS-134	-1.44E+01	-2.57E+01	-3.08E+00	1.19E+02	2	0
CS-137	7.15E+01	3.99E+01	1.03E+02	8.90E+01	2	0
FE-59	1.61E+01	-2.67E+01	5.89E+01	1.65E+02	2	0
K-40	1.26E+04	1.01E+04	1.50E+04	4.00E+02	2	2
MN-54	1.93E+01	4.83E+00	3.38E+01	5.16E+01	2	0
ZN-65	-5.72E+01	-6.97E+01	-4.48E+01	2.17E+02	2	0
ZRNB-95	2.47E+01	2.07E+01	2.88E+01	9.73E+01	2	0

TABLE B-10.1

GAMMA SPECTROMETRY RESULTS OF GROUNDWATER MONITORING WELL SAMPLES

Results in pCi/liter

Station MW-5 collected 1/29/2025

Nuclide	RQ	Activity	±	Error	MDA
BALA140		7.86E+00	±	1.87E+01	2.28E+01
BI-214	+	4.05E+01	±	1.68E+01	1.98E+01
CO-58		3.40E-01	±	7.51E+00	9.84E+00
CO-60		-3.54E+00	±	7.12E+00	8.71E+00
CS-134		-4.04E+00	±	9.04E+00	1.51E+01
CS-137		1.37E+00	±	6.36E+00	8.50E+00
FE-59		-2.47E+00	±	2.30E+01	2.88E+01
I-131		1.36E+01	±	3.91E+01	5.49E+01
K-40		-5.15E+01	±	8.07E+01	1.07E+02
MN-54		-1.62E-01	±	7.08E+00	9.25E+00
ZN-65		-9.51E+00	±	1.69E+01	2.81E+01
ZRNB-95		-5.38E+00	±	1.49E+01	1.97E+01

Station MW-10 collected 1/29/2025

Nuclide	RQ	Activity	±	Error	MDA
BALA140		-1.94E+01	±	2.85E+01	3.54E+01
BI-214	+	5.36E+01	±	1.41E+01	1.53E+01
CO-58		2.57E+00	±	6.19E+00	8.51E+00
CO-60		2.39E+00	±	6.01E+00	8.08E+00
CS-134		-3.79E+00	±	8.79E+00	1.47E+01
CS-137		3.29E-01	±	6.98E+00	9.66E+00
FE-59		1.01E+01	±	1.88E+01	2.44E+01
I-131		6.51E+00	±	3.81E+01	5.57E+01
K-40	+	1.77E+02	±	7.52E+01	9.65E+01
MN-54		1.05E+00	±	6.00E+00	8.08E+00
ZN-65		-1.11E+01	±	1.77E+01	2.25E+01
ZRNB-95		3.15E+00	±	1.26E+01	1.74E+01

Station MW-11 collected 1/29/2025

Nuclide	RQ	Activity	±	Error	MDA
BALA140		-5.10E+00	±	2.83E+01	3.67E+01
BI-214	+	3.40E+01	±	1.27E+01	1.49E+01
CO-58		1.64E+00	±	6.49E+00	9.01E+00
CO-60		1.41E+00	±	5.09E+00	7.05E+00
CS-134		-3.74E+00	±	7.89E+00	1.32E+01
CS-137		3.93E+00	±	7.80E+00	1.05E+01
FE-59		4.60E+00	±	2.14E+01	2.83E+01
I-131		2.89E+01	±	5.09E+01	7.33E+01
K-40		7.22E+01	±	8.78E+01	1.19E+02
MN-54		-2.77E+00	±	7.26E+00	9.60E+00
ZN-65		-3.32E+00	±	1.45E+01	1.89E+01
ZRNB-95		3.65E+00	±	1.32E+01	1.82E+01

Station MW-12 collected 1/29/2025

Nuclide	RQ	Activity	±	Error	MDA
BALA140		-2.34E+01	±	3.40E+01	4.01E+01
BI-214	+	4.60E+01	±	1.36E+01	1.44E+01
CO-58		-3.07E+00	±	8.61E+00	1.11E+01
CO-60		1.90E+00	±	6.47E+00	8.05E+00
CS-134		-4.26E+00	±	8.72E+00	1.45E+01
CS-137		-2.58E+00	±	7.44E+00	9.83E+00
FE-59		-2.49E+00	±	2.21E+01	2.77E+01
I-131		2.97E+01	±	5.19E+01	7.21E+01
K-40		-9.02E+00	±	8.75E+01	1.12E+02
MN-54		-1.90E+00	±	7.56E+00	9.76E+00
ZN-65		-1.19E+01	±	1.78E+01	2.20E+01
ZRNB-95		4.56E+00	±	1.37E+01	1.83E+01

Station MW-13 collected 1/29/2025

Nuclide	RQ	Activity	±	Error	MDA
BALA140		-8.77E+00	±	2.08E+01	2.65E+01
BI-214	+	3.74E+01	±	1.14E+01	1.32E+01
CO-58		-3.14E+00	±	7.45E+00	1.02E+01
CO-60		4.03E+00	±	4.85E+00	6.44E+00
CS-134		-7.52E-01	±	7.55E+00	1.28E+01
CS-137		-3.61E+00	±	7.16E+00	9.69E+00
FE-59		-2.07E+00	±	1.86E+01	2.49E+01
I-131		-1.82E+01	±	3.66E+01	5.27E+01
K-40	+	2.05E+02	±	7.69E+01	9.65E+01
MN-54		2.03E+00	±	5.63E+00	7.52E+00
ZN-65		-1.12E+01	±	1.79E+01	2.28E+01
ZRNB-95		-3.48E-01	±	1.18E+01	1.66E+01

Station MW-14 collected 1/29/2025

Nuclide	RQ	Activity	±	Error	MDA
BALA140		-1.52E+00	±	2.14E+01	2.66E+01
BI-214	+	5.44E+01	±	1.57E+01	1.69E+01
CO-58		-5.33E+00	±	9.01E+00	1.15E+01
CO-60		1.56E+00	±	5.83E+00	7.30E+00
CS-134		-4.52E+00	±	9.42E+00	1.57E+01
CS-137		-4.59E+00	±	7.67E+00	1.00E+01
FE-59		-1.36E+01	±	2.24E+01	2.72E+01
I-131		7.17E+00	±	3.80E+01	5.35E+01
K-40		-4.98E+00	±	9.07E+01	1.16E+02
MN-54		4.05E+00	±	6.80E+00	8.66E+00
ZN-65		-3.68E+00	±	1.45E+01	1.83E+01
ZRNB-95		4.07E+00	±	1.19E+01	1.59E+01

Station MW-5 collected 4/21/2025

Nuclide	RQ	Activity	±	Error	MDA
BALA140		-2.86E+00	±	9.73E+00	1.18E+01
BI-214	+	1.63E+02	±	2.20E+01	2.11E+01
CO-58		1.17E+00	±	6.84E+00	8.88E+00
CO-60		-1.23E+00	±	7.11E+00	8.86E+00
CS-134		-4.33E+00	±	1.20E+01	1.99E+01
CS-137		-4.22E+00	±	8.29E+00	1.09E+01
FE-59		9.26E+00	±	1.47E+01	1.79E+01
I-131		-4.02E+00	±	9.14E+00	1.27E+01
K-40	+	2.22E+02	±	7.46E+01	6.73E+01
MN-54		-3.36E+00	±	8.01E+00	1.02E+01
ZN-65		-9.21E+00	±	2.04E+01	3.41E+01
ZRNB-95		-9.08E+00	±	1.41E+01	1.84E+01

Station MW-10 collected 4/21/2025

Nuclide	RQ	Activity	±	Error	MDA
BALA140		-4.30E+00	±	9.61E+00	1.15E+01
BI-214	+	2.29E+02	±	2.41E+01	2.17E+01
CO-58		-5.44E+00	±	8.69E+00	1.10E+01
CO-60		5.72E-01	±	6.89E+00	8.65E+00
CS-134		-8.35E-01	±	1.32E+01	2.22E+01
CS-137		-5.95E+00	±	9.78E+00	1.27E+01
FE-59		-8.19E+00	±	1.96E+01	2.39E+01
I-131		-9.23E-01	±	7.59E+00	1.07E+01
K-40		5.37E+01	±	8.58E+01	1.07E+02
MN-54		1.24E-01	±	7.00E+00	9.13E+00
ZN-65		7.98E+00	±	1.98E+01	3.31E+01
ZRNB-95		7.52E-01	±	1.19E+01	1.59E+01

RQ = Results Qualifier. If blank, result is less than detection limit. If "+", result is above detection limit.

TABLE B-10.1

GAMMA SPECTROMETRY RESULTS OF GROUNDWATER MONITORING WELL SAMPLES

Results in pCi/liter

Station MW-11 collected 4/21/2025

Nuclide	RQ	Activity	±	Error	MDA
BALA140		2.83E+00	±	9.29E+00	1.14E+01
BI-214	+	7.90E+01	±	1.74E+01	1.98E+01
CO-58		1.01E+00	±	7.36E+00	9.55E+00
CO-60		3.42E+00	±	3.08E+00	4.05E+00
CS-134		8.66E-01	±	9.86E+00	1.66E+01
CS-137		-4.73E+00	±	8.23E+00	1.08E+01
FE-59		-4.14E-01	±	1.83E+01	2.30E+01
I-131		1.11E+01	±	1.03E+01	1.40E+01
K-40		2.74E+01	±	9.07E+01	1.14E+02
MN-54		-2.57E+00	±	7.45E+00	9.56E+00
ZN-65		7.37E-01	±	1.62E+01	2.76E+01
ZRNB-95		6.60E+00	±	1.14E+01	1.49E+01

Station MW-12 collected 4/21/2025

Nuclide	RQ	Activity	±	Error	MDA
BALA140		0.00E+00	±	7.62E+00	1.44E+01
BI-214	+	8.69E+01	±	1.90E+01	2.13E+01
CO-58		3.30E-01	±	7.21E+00	9.41E+00
CO-60		5.12E+00	±	5.39E+00	6.44E+00
CS-134		-4.53E+00	±	1.06E+01	1.77E+01
CS-137		1.08E+00	±	7.58E+00	1.01E+01
FE-59		5.87E+00	±	1.65E+01	2.05E+01
I-131		-4.58E+00	±	1.35E+01	1.89E+01
K-40		4.36E+01	±	8.84E+01	1.11E+02
MN-54		-3.96E+00	±	7.28E+00	9.28E+00
ZN-65		-1.04E+01	±	2.00E+01	3.33E+01
ZRNB-95		-5.91E+00	±	1.25E+01	1.64E+01

Station MW-13 collected 4/21/2025

Nuclide	RQ	Activity	±	Error	MDA
BALA140		2.82E+00	±	8.73E+00	1.06E+01
BI-214	+	2.62E+02	±	2.48E+01	2.11E+01
CO-58		-3.05E+00	±	7.86E+00	1.01E+01
CO-60		1.35E+00	±	6.76E+00	8.44E+00
CS-134		5.49E+00	±	1.37E+01	2.27E+01
CS-137		-5.07E+00	±	9.00E+00	1.17E+01
FE-59		-4.37E+00	±	1.70E+01	2.10E+01
I-131		-7.71E-01	±	8.62E+00	1.22E+01
K-40		9.18E+00	±	9.42E+01	1.19E+02
MN-54		-2.89E+00	±	7.24E+00	9.28E+00
ZN-65		-7.47E+00	±	2.12E+01	3.54E+01
ZRNB-95		5.10E+00	±	1.18E+01	1.56E+01

Station MW-14 collected 4/21/2025

Nuclide	RQ	Activity	±	Error	MDA
BALA140		-5.14E+00	±	1.12E+01	1.33E+01
BI-214	+	3.21E+02	±	2.66E+01	2.10E+01
CO-58		-5.10E+00	±	8.17E+00	1.04E+01
CO-60		3.07E+00	±	7.55E+00	9.27E+00
CS-134		4.07E+00	±	1.46E+01	2.44E+01
CS-137		-1.59E-01	±	8.87E+00	1.18E+01
FE-59		1.73E+00	±	1.58E+01	1.98E+01
I-131		-4.89E+00	±	9.31E+00	1.29E+01
K-40	+	2.16E+02	±	6.11E+01	5.46E+01
MN-54		-9.00E-01	±	8.11E+00	1.05E+01
ZN-65		-1.07E+01	±	2.31E+01	3.85E+01
ZRNB-95		8.87E+00	±	1.12E+01	1.45E+01

Station MW-5 collected 7/22/2025

Nuclide	RQ	Activity	±	Error	MDA
BALA140		3.75E+00	±	1.09E+01	1.36E+01
BI-214	+	5.17E+01	±	1.88E+01	2.27E+01
CO-58		-4.65E+00	±	7.60E+00	9.96E+00
CO-60		-1.69E+00	±	6.96E+00	8.95E+00
CS-134		-4.74E+00	±	1.09E+01	1.81E+01
CS-137		2.25E+00	±	6.85E+00	9.41E+00
FE-59		2.66E+00	±	1.78E+01	2.30E+01
I-131		1.95E+00	±	1.13E+01	1.59E+01
K-40		5.71E+01	±	8.87E+01	1.15E+02
MN-54		2.00E+00	±	6.79E+00	9.07E+00
ZN-65		-8.18E+00	±	1.67E+01	2.81E+01
ZRNB-95		8.65E+00	±	1.16E+01	1.52E+01

Station MW-10 collected 7/22/2025

Nuclide	RQ	Activity	±	Error	MDA
BALA140		-3.10E+00	±	9.94E+00	1.23E+01
BI-214	+	1.30E+02	±	2.36E+01	2.44E+01
CO-58		-2.97E+00	±	7.31E+00	9.68E+00
CO-60		-3.96E+00	±	7.94E+00	9.97E+00
CS-134		-3.25E+00	±	1.23E+01	2.06E+01
CS-137		3.28E+00	±	9.07E+00	1.23E+01
FE-59		6.22E+00	±	1.42E+01	1.81E+01
I-131		3.01E+00	±	7.98E+00	1.12E+01
K-40		-4.62E+01	±	9.97E+01	1.33E+02
MN-54		3.37E+00	±	5.92E+00	7.81E+00
ZN-65		-7.08E+00	±	2.07E+01	3.48E+01
ZRNB-95		-8.48E+00	±	1.42E+01	1.86E+01

Station MW-11 collected 7/22/2025

Nuclide	RQ	Activity	±	Error	MDA
BALA140		5.53E+00	±	8.93E+00	1.10E+01
BI-214	+	9.97E+01	±	2.32E+01	2.42E+01
CO-58		4.24E-01	±	6.76E+00	9.17E+00
CO-60		0.00E+00	±	1.95E+00	8.95E+00
CS-134		-1.16E+00	±	1.14E+01	1.92E+01
CS-137		-3.56E+00	±	7.94E+00	1.08E+01
FE-59		3.54E+00	±	1.57E+01	2.03E+01
I-131		-1.81E+00	±	1.24E+01	1.75E+01
K-40		1.93E+01	±	9.77E+01	1.27E+02
MN-54		1.85E+00	±	6.36E+00	8.51E+00
ZN-65		3.00E+00	±	1.56E+01	2.67E+01
ZRNB-95		-2.70E-01	±	1.18E+01	1.61E+01

Station MW-12 collected 7/22/2025

Nuclide	RQ	Activity	±	Error	MDA
BALA140		4.27E+00	±	8.83E+00	1.09E+01
BI-214	+	3.00E+02	±	2.81E+01	2.32E+01
CO-58		2.02E+00	±	7.17E+00	9.56E+00
CO-60		3.72E+00	±	7.31E+00	9.20E+00
CS-134		-4.72E+00	±	1.63E+01	2.71E+01
CS-137		-5.68E+00	±	9.88E+00	1.33E+01
FE-59		-3.06E+00	±	1.82E+01	2.34E+01
I-131		-2.34E+00	±	9.48E+00	1.33E+01
K-40		-5.58E+01	±	1.07E+02	1.42E+02
MN-54		2.01E+00	±	7.62E+00	1.01E+01
ZN-65		-1.07E+01	±	2.47E+01	4.12E+01
ZRNB-95		-6.41E-02	±	1.25E+01	1.69E+01

RQ = Results Qualifier. If blank, result is less than detection limit. If "+", result is above detection limit.

TABLE B-10.1

GAMMA SPECTROMETRY RESULTS OF GROUNDWATER MONITORING WELL SAMPLES

Results in pCi/liter

Station MW-13 collected 7/22/2025

Nuclide	RQ	Activity	±	Error	MDA
BALA140		-3.14E-01	±	1.21E+01	1.53E+01
BI-214	+	8.21E+01	±	2.02E+01	2.27E+01
CO-58		-3.82E-02	±	6.33E+00	8.63E+00
CO-60		4.36E+00	±	5.69E+00	7.08E+00
CS-134		-4.24E+00	±	1.12E+01	1.86E+01
CS-137		5.62E-01	±	7.91E+00	1.09E+01
FE-59		-5.53E+00	±	1.85E+01	2.35E+01
I-131		-9.03E-02	±	1.10E+01	1.56E+01
K-40		1.60E+01	±	9.40E+01	1.23E+02
MN-54		-2.58E+00	±	7.23E+00	9.60E+00
ZN-65		-5.56E+00	±	1.75E+01	2.96E+01
ZRNB-95		2.34E+00	±	1.20E+01	1.62E+01

Station MW-14 collected 7/22/2025

Nuclide	RQ	Activity	±	Error	MDA
BALA140		2.50E+00	±	7.98E+00	1.00E+01
BI-214	+	3.10E+02	±	2.81E+01	2.37E+01
CO-58		-1.13E+00	±	7.64E+00	1.02E+01
CO-60		-2.17E+00	±	8.02E+00	1.02E+01
CS-134		-1.20E+00	±	1.60E+01	2.67E+01
CS-137		-4.49E+00	±	9.68E+00	1.31E+01
FE-59		-2.69E+00	±	1.97E+01	2.52E+01
I-131		5.08E+00	±	7.81E+00	1.08E+01
K-40		-1.70E+01	±	9.41E+01	1.25E+02
MN-54		1.83E-01	±	7.52E+00	1.01E+01
ZN-65		1.84E+00	±	2.29E+01	3.87E+01
ZRNB-95		4.83E+00	±	1.23E+01	1.63E+01

Station MW-5 collected 10/28/2025

Nuclide	RQ	Activity	±	Error	MDA
BALA140		-2.17E+00	±	8.11E+00	1.04E+01
BI-214	+	1.86E+02	±	2.24E+01	1.75E+01
CO-58		-1.80E+00	±	5.83E+00	7.90E+00
CO-60		6.11E-01	±	5.06E+00	6.86E+00
CS-134		-2.87E-01	±	1.24E+01	2.09E+01
CS-137		-2.86E+00	±	6.59E+00	9.06E+00
FE-59		-5.91E+00	±	1.59E+01	2.06E+01
I-131		-3.62E-01	±	5.49E+00	7.93E+00
K-40		1.75E+01	±	6.76E+01	9.72E+01
MN-54		-3.35E+00	±	5.98E+00	7.95E+00
ZN-65		-8.51E+00	±	2.03E+01	3.41E+01
ZRNB-95		3.03E+00	±	8.08E+00	1.10E+01

Station MW-10 collected 10/28/2025

Nuclide	RQ	Activity	±	Error	MDA
BALA140		-1.09E+00	±	7.42E+00	9.67E+00
BI-214	+	1.90E+02	±	2.17E+01	1.68E+01
CO-58		-3.42E+00	±	6.28E+00	8.34E+00
CO-60		2.14E+00	±	5.24E+00	6.86E+00
CS-134		-3.04E-01	±	1.28E+01	2.15E+01
CS-137		1.76E+00	±	5.46E+00	7.63E+00
FE-59		-2.67E+00	±	1.48E+01	1.95E+01
I-131		2.04E+00	±	5.81E+00	8.24E+00
K-40		1.02E+01	±	6.31E+01	9.30E+01
MN-54		-9.26E-01	±	5.80E+00	7.95E+00
ZN-65		4.92E+00	±	1.82E+01	3.09E+01
ZRNB-95		-1.44E+00	±	1.08E+01	1.48E+01

Station MW-11 collected 10/28/2025

Nuclide	RQ	Activity	±	Error	MDA
BALA140		1.92E+00	±	6.41E+00	8.36E+00
BI-214	+	2.28E+02	±	2.29E+01	1.68E+01
CO-58		-7.93E-01	±	5.23E+00	7.22E+00
CO-60		-2.50E+00	±	6.15E+00	7.97E+00
CS-134		2.51E+00	±	1.36E+01	2.29E+01
CS-137		-1.54E+00	±	6.59E+00	9.18E+00
FE-59		-6.81E+00	±	1.77E+01	2.27E+01
I-131		7.67E-01	±	4.58E+00	6.66E+00
K-40		-4.40E+01	±	8.53E+01	1.22E+02
MN-54		1.99E+00	±	4.50E+00	6.12E+00
ZN-65		-9.54E+00	±	2.42E+01	4.06E+01
ZRNB-95		-6.48E+00	±	1.15E+01	1.53E+01

Station MW-12 collected 10/28/2025

Nuclide	RQ	Activity	±	Error	MDA
BALA140		3.63E+00	±	7.36E+00	9.30E+00
BI-214	+	2.47E+02	±	2.32E+01	1.58E+01
CO-58		1.72E+00	±	4.91E+00	6.70E+00
CO-60		1.73E+00	±	2.29E+00	3.61E+00
CS-134		-3.51E+00	±	1.46E+01	2.43E+01
CS-137		1.32E+00	±	7.27E+00	1.01E+01
FE-59		-4.55E+00	±	1.60E+01	2.08E+01
I-131		-1.33E+00	±	6.55E+00	9.34E+00
K-40		-4.16E+01	±	7.63E+01	1.12E+02
MN-54		-2.91E+00	±	6.77E+00	9.03E+00
ZN-65		1.55E+00	±	2.28E+01	3.89E+01
ZRNB-95		-8.40E-01	±	9.99E+00	1.38E+01

Station MW-13 collected 10/28/2025

Nuclide	RQ	Activity	±	Error	MDA
BALA140		2.79E+00	±	7.59E+00	9.67E+00
BI-214	+	2.57E+02	±	2.39E+01	1.62E+01
CO-58		-1.01E+00	±	5.22E+00	7.17E+00
CO-60		-2.93E+00	±	7.63E+00	9.78E+00
CS-134		-3.25E+00	±	1.47E+01	2.45E+01
CS-137		-4.75E+00	±	8.40E+00	1.14E+01
FE-59		-2.39E+00	±	1.56E+01	2.06E+01
I-131		-8.54E-01	±	5.89E+00	8.44E+00
K-40		4.01E+01	±	7.31E+01	1.01E+02
MN-54		-4.52E+00	±	7.44E+00	9.78E+00
ZN-65		4.42E+00	±	2.23E+01	3.78E+01
ZRNB-95		5.39E+00	±	9.33E+00	1.24E+01

Station MW-14 collected 10/28/2025

Nuclide	RQ	Activity	±	Error	MDA
BALA140		7.72E-02	±	7.29E+00	9.64E+00
BI-214	+	2.76E+02	±	2.40E+01	1.45E+01
CO-58		2.19E+00	±	4.71E+00	6.36E+00
CO-60		-1.47E+00	±	6.44E+00	8.46E+00
CS-134		-1.43E+00	±	1.49E+01	2.50E+01
CS-137		-4.60E+00	±	8.21E+00	1.11E+01
FE-59		3.37E+00	±	1.39E+01	1.83E+01
I-131		4.25E+00	±	5.37E+00	7.42E+00
K-40		-2.75E+01	±	7.42E+01	1.09E+02
MN-54		-1.37E+00	±	6.66E+00	9.02E+00
ZN-65		-3.35E+00	±	2.21E+01	3.76E+01
ZRNB-95		9.16E+00	±	8.27E+00	1.05E+01

RQ = Results Qualifier. If blank, result is less than detection limit. If "+", result is above detection limit.

Table B-10.2

GAMMA SPECTROMETRY RESULTS OF GROUNDWATER MONITORING WELL SAMPLES - SUMMARY

Results in pCi/liter

Nuclide	Average Activity	Activity Low	Activity High	Average MDA	Number of Samples	Number of Positive IDs
BALA140	-1.63E+00	-2.34E+01	7.86E+00	1.63E+01	24	0
BI-214	1.57E+02	3.40E+01	3.21E+02	1.91E+01	24	24
CO-58	-1.15E+00	-5.44E+00	2.57E+00	9.18E+00	24	0
CO-60	7.44E-01	-3.96E+00	5.12E+00	7.89E+00	24	0
CS-134	-1.92E+00	-4.74E+00	5.49E+00	1.99E+01	24	0
CS-137	-1.77E+00	-5.95E+00	3.93E+00	1.06E+01	24	0
FE-59	-8.30E-01	-1.36E+01	1.01E+01	2.26E+01	24	0
I-131	3.08E+00	-1.82E+01	2.97E+01	2.40E+01	24	0
K-40	3.71E+01	-5.58E+01	2.22E+02	1.09E+02	24	4
MN-54	-6.47E-01	-4.52E+00	4.05E+00	9.00E+00	24	0
ZN-65	-4.87E+00	-1.19E+01	7.98E+00	3.14E+01	24	0
ZRNB-95	1.33E+00	-9.08E+00	9.16E+00	1.58E+01	24	0

TABLE B-11.1

TRITIUM IN GROUNDWATER MONITORING WELL SAMPLES

Results in pCi/liter, MDA for all samples is 300 pCi/liter

Location	Collection Date	RQ	Activity		Error
MW-5	1/29/2025	+	1.01E+04	±	2.61E+02
	4/21/2025	+	8.59E+03	±	2.39E+02
	7/22/2025	+	9.12E+03	±	2.43E+02
	10/28/2025	+	9.16E+03	±	2.65E+02
MW-10	1/29/2025	+	3.02E+02	±	9.68E+01
	4/21/2025		9.35E+01	±	9.51E+01
	7/22/2025		1.05E+02	±	9.22E+01
	10/28/2025	+	3.78E+02	±	1.41E+02
MW-11	1/29/2025		-9.18E+01	±	8.95E+01
	4/21/2025		1.86E+01	±	8.52E+01
	7/22/2025		1.34E+02	±	1.36E+02
	10/28/2025		1.42E+02	±	9.20E+01
MW-12	1/29/2025	+	3.20E+02	±	9.77E+01
	4/21/2025		4.17E+01	±	9.21E+01
	7/22/2025		2.56E+02	±	9.61E+01
	10/28/2025	+	4.39E+02	±	1.43E+02
MW-13	1/29/2025	+	8.59E+03	±	2.44E+02
	4/21/2025	+	7.73E+03	±	2.28E+02
	7/22/2025	+	7.43E+03	±	2.23E+02
	10/28/2025	+	7.70E+03	±	2.49E+02
MW-14	1/29/2025		2.73E+02	±	9.61E+01
	4/21/2025		1.46E+01	±	9.62E+01
	7/22/2025		1.04E+02	±	9.17E+01
	10/28/2025		4.17E+01	±	1.38E+02

TABLE B-11.2

TRITIUM IN GROUNDWATER MONITORING WELL SAMPLES - SUMMARY

Results in pCi/liter

Location Description	Average Activity	Activity Low	Activity High	Number of Samples	Number of Positive IDs
Monitoring Wells	2.96E+03	-9.18E+01	1.01E+04	24	12

RQ = Results Qualifier. If blank, results is less than detection limit. If "+", result is above the detection limit.

Table B-12.1

GAMMA SPECTROMETRY RESULTS OF EVAPORATION POND WATER

Results in pCi/liter

Location EVP-1A collected 5/5/2025

Nuclide	RQ	Activity		Error	MDA
BALA140		-4.21E-01	±	1.03E+01	1.29E+01
BI-214	+	4.09E+01	±	1.48E+01	1.70E+01
CO-58		1.96E-01	±	7.42E+00	9.76E+00
CO-60		-1.72E+00	±	7.44E+00	9.31E+00
CR-51		1.53E+01	±	6.51E+01	9.16E+01
CS-134		1.26E+00	±	8.25E+00	1.39E+01
CS-137		8.19E+00	±	8.11E+00	1.04E+01
FE-59		4.96E-01	±	1.79E+01	2.28E+01
I-131		-9.59E-01	±	1.17E+01	1.67E+01
K-40		7.11E+01	±	9.02E+01	1.15E+02
MN-54		-3.42E+00	±	8.16E+00	1.05E+01
ZN-65		-4.86E+00	±	1.64E+01	2.07E+01
ZRNB-95		4.61E+00	±	1.21E+01	1.61E+01

Location EVP-1B collected 5/5/2025

Nuclide	RQ	Activity		Error	MDA
BALA140		5.54E+00	±	9.64E+00	1.17E+01
BI-214		9.17E-01	±	2.03E+01	2.71E+01
CO-58		-3.81E+00	±	8.32E+00	1.07E+01
CO-60		5.11E+00	±	6.11E+00	7.36E+00
CR-51		7.08E+00	±	6.59E+01	9.32E+01
CS-134		-2.93E+00	±	8.24E+00	1.08E+01
CS-137		-1.30E+00	±	8.69E+00	1.16E+01
FE-59		5.47E+00	±	1.48E+01	1.86E+01
I-131		-3.14E+00	±	1.27E+01	1.80E+01
K-40		6.82E-01	±	9.89E+01	1.28E+02
MN-54		-1.24E+00	±	7.06E+00	9.22E+00
ZN-65		7.97E-01	±	1.52E+01	1.95E+01
ZRNB-95		1.24E+00	±	1.27E+01	1.72E+01

Location EVP-2 collected 5/5/2025

Nuclide	RQ	Activity		Error	MDA
BALA140		-3.54E+00	±	1.32E+01	1.61E+01
BI-214	+	4.44E+01	±	1.28E+01	1.44E+01
CO-58		-5.24E+00	±	8.44E+00	1.07E+01
CO-60		-4.43E-01	±	7.60E+00	9.60E+00
CR-51		5.40E+00	±	6.41E+01	9.09E+01
CS-134		-4.54E+00	±	9.17E+00	1.53E+01
CS-137		-4.19E+00	±	8.27E+00	1.09E+01
FE-59		4.90E+00	±	1.49E+01	1.88E+01
I-131		-4.64E+00	±	1.32E+01	1.85E+01
K-40		3.11E+00	±	8.65E+01	1.15E+02
MN-54		1.02E+00	±	7.06E+00	9.23E+00
ZN-65		-9.31E+00	±	1.82E+01	2.27E+01
ZRNB-95		2.08E-01	±	1.37E+01	1.85E+01

Location EVP-3 collected 5/6/2025

Nuclide	RQ	Activity		Error	MDA
BALA140		1.59E+00	±	1.22E+01	1.54E+01
BI-214		1.57E+01	±	2.02E+01	2.68E+01
CO-58		-5.02E-01	±	6.67E+00	9.04E+00
CO-60		8.72E-01	±	6.68E+00	8.67E+00
CR-51		3.97E+01	±	5.38E+01	7.69E+01
CS-134		-5.11E+00	±	8.67E+00	1.17E+01
CS-137		5.62E-01	±	6.66E+00	9.28E+00
FE-59		-9.79E-01	±	1.79E+01	2.33E+01
I-131		-6.64E+00	±	1.24E+01	1.72E+01
K-40		2.11E+00	±	9.51E+01	1.25E+02
MN-54		2.55E+00	±	6.29E+00	8.37E+00
ZN-65		-7.41E+00	±	1.55E+01	1.99E+01
ZRNB-95		4.06E+00	±	1.23E+01	1.64E+01

Location EVP-4 collected 5/6/2025

Nuclide	RQ	Activity		Error	MDA
BALA140		-2.11E+00	±	1.14E+01	1.44E+01
BI-214		5.18E+00	±	1.97E+01	2.67E+01
CO-58		1.52E+00	±	6.54E+00	8.80E+00
CO-60		2.66E+00	±	6.58E+00	8.38E+00
CR-51		-8.58E+00	±	6.12E+01	8.98E+01
CS-134		-4.75E+00	±	8.08E+00	1.09E+01
CS-137		-2.43E+00	±	7.92E+00	1.08E+01
FE-59		9.18E+00	±	1.64E+01	2.07E+01
I-131		2.10E+00	±	1.29E+01	1.82E+01
K-40		2.84E+01	±	9.64E+01	1.25E+02
MN-54		4.82E-01	±	6.29E+00	8.54E+00
ZN-65		-5.33E+00	±	1.48E+01	1.92E+01
ZRNB-95		-5.47E+00	±	1.25E+01	1.65E+01

RQ = Results Qualifier. If blank, result is less than detection limit. If "+", result is above detection limit.

TABLE B-12.2

GAMMA SPECTROMETRY RESULTS OF EVAPORATION POND WATER - SUMMARY

Results in pCi/liter

Nuclide	Average Activity	Activity Low	Activity High	Average MDA	Number of Samples	Number of Positive IDs
BALA140	2.13E-01	-3.54E+00	5.54E+00	1.41E+01	5	0
BI-214	2.14E+01	9.17E-01	4.44E+01	2.24E+01	5	2
CO-58	-1.57E+00	-5.24E+00	1.52E+00	9.80E+00	5	0
CO-60	1.30E+00	-1.72E+00	5.11E+00	8.66E+00	5	0
CR-51	1.18E+01	-8.58E+00	3.97E+01	8.85E+01	5	0
CS-134	-3.21E+00	-5.11E+00	1.26E+00	1.25E+01	5	0
CS-137	1.65E-01	-4.19E+00	8.19E+00	1.06E+01	5	0
FE-59	3.81E+00	-9.79E-01	9.18E+00	2.08E+01	5	0
I-131	-2.65E+00	-6.64E+00	2.10E+00	1.77E+01	5	0
K-40	2.11E+01	6.82E-01	7.11E+01	1.22E+02	5	0
MN-54	-1.22E-01	-3.42E+00	2.55E+00	9.17E+00	5	0
ZN-65	-5.22E+00	-9.31E+00	7.97E-01	2.04E+01	5	0
ZRNB-95	9.30E-01	-5.47E+00	4.61E+00	1.69E+01	5	0

TABLE B-13.1

GAMMA SPECTROMETRY RESULTS OF CGS EVAPORATION POND SEDIMENT

Results in pCi/kilogram dry material

Location & Date		EVP-3		9/18/2025	
Nuclide	**RQ**	**Activity**		**Error**	**MDA**
BALA140		-1.45E+02	±	3.22E+02	4.04E+02
BE-7	+	1.19E+04	±	1.41E+03	1.16E+03
BI-214		2.14E+02	±	1.80E+02	2.46E+02
CO-58		6.01E+00	±	8.77E+01	1.20E+02
CO-60		4.19E+01	±	8.60E+01	1.09E+02
CR-51		3.33E+02	±	1.06E+03	1.55E+03
CS-134		-4.58E+01	±	7.95E+01	1.08E+02
CS-137		8.72E+01	±	7.90E+01	1.04E+02
FE-59		5.40E+01	±	2.54E+02	3.31E+02
K-40	+	3.06E+03	±	1.08E+03	1.23E+03
MN-54		-9.06E+00	±	7.00E+01	9.58E+01
ZN-65		-1.47E+02	±	2.30E+02	2.93E+02
ZRNB-95		3.20E+01	±	1.37E+02	1.92E+02

Location & Date		EVP-4		9/18/2025	
Nuclide	**RQ**	**Activity**		**Error**	**MDA**
BALA140		8.72E+01	±	2.66E+02	3.50E+02
BE-7	+	2.39E+03	±	7.90E+02	8.20E+02
BI-214		-9.29E+00	±	1.86E+02	2.78E+02
CO-58		-2.75E+01	±	9.32E+01	1.29E+02
CO-60		-1.81E+01	±	1.11E+02	1.48E+02
CR-51		6.99E+02	±	8.27E+02	1.18E+03
CS-134		-5.21E+01	±	9.17E+01	1.25E+02
CS-137		5.03E+01	±	6.91E+01	9.43E+01
FE-59		-3.42E+01	±	2.83E+02	3.84E+02
K-40	+	2.51E+03	±	9.06E+02	9.81E+02
MN-54		-6.02E+01	±	1.13E+02	1.51E+02
ZN-65		-1.10E+02	±	2.25E+02	2.95E+02
ZRNB-95		2.60E+01	±	1.33E+02	1.95E+02

RQ = Results Qualifier. If blank, result is less than detection limit. If "+", result is above detection limit.

TABLE B-14.1

GROSS BETA IN EVAPORATION POND WATER

Results in pCi/liter

Location	Collection Date	RQ	Activity		Error	MDA
Evaporation Pond 1A	5/5/2025	+	5.04E+00	±	9.12E-01	2.22E+00
Evaporation Pond 1B	5/5/2025	+	2.77E+00	±	8.80E-01	2.60E+00
Evaporation Pond 2	5/5/2025		2.16E+00	±	8.11E-01	2.51E+00
Evaporation Pond 3	5/6/2025	+	2.28E+00	±	7.39E-01	2.16E+00
Evaporation Pond 4	5/6/2025	+	2.22E+01	±	1.78E+00	2.81E+00

TABLE B-15.1

TRITIUM IN EVAPORATION POND WATER

Results in pCi/liter, LLD is 300 pCi/liter

Location	Collection Date	RQ	Activity		Error
Evaporation Pond 1A	5/5/2025		1.01E+01	±	9.84E+01
Evaporation Pond 1B	5/5/2025		4.56E+01	±	9.51E+01
Evaporation Pond 2	5/5/2025		2.59E+01	±	9.40E+01
Evaporation Pond 3	5/6/2025		1.06E+02	±	9.75E+01
Evaporation Pond 4	5/6/2025	+	1.40E+03	±	1.21E+02

RQ = Results Qualifier. If blank, result is less than detection limit. If "+", result is above detection limit.

TABLE B-17.1

CARBON 14 IN APPLES

Results in pCi/gram wet mass

Location	Distance from CGS, miles	Sector from CGS	Sample Type	Collection Date	RQ	Activity	Error	MDA
ST-37	4.3	ESE	Ind	9/2/2025		4.50E-01	4.00E-01	6.80E-01
ST-37	4.3	ESE	Ind	9/2/2025		3.30E-01	4.10E-01	6.80E-01
ST-37	4.3	ESE	Ind	9/2/2025		5.20E-01	4.10E-01	6.80E-01
Mesa	9.53	NNE	Ind	9/5/2025		6.00E-01	4.10E-01	6.80E-01
ST-9C	32	WSW	Cntl	9/5/2025		4.00E-01	4.00E-01	6.80E-01
Kennewick	17.8	SSE	Cntl	9/5/2025	+	7.80E-01	4.10E-01	6.80E-01

Ind = Indicator location. Cntl = Control location.

RQ=Results Qualifier. If blank, results is less than detection limit. If "+", result is above the detection limit.