Wolf Creek
Nuclear Operating Corporation

Dustin T. Hamman
Director Nuclear and Regulatory Affairs

April 30, 2026
001383

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

Subject: Docket No. 50-482 and 72-79: 2025 Annual Radiological Environmental Operating Report

Commissioners and Staff:

Wolf Creek Nuclear Operating Corporation (WCNOC) hereby submits the enclosed 2025 Annual Radiological Environmental Operating Report for Wolf Creek Generating Station (WCGS) pursuant to Technical Specification 5.6.2. This report covers the period from January 1, 2025, through December 31, 2025.

This letter contains no commitments. If you have any questions concerning this matter, please contact me at (620) 364-4204.

Sincerely,

Dustin T. Hamman

DTH/jms

Enclosure: Wolf Creek Generating Station 2025 Annual Radiological Environmental Operating Report

cc: A. N. Agrawal (NRC), w/e
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Enclosure to 001383

2025 Annual Radiological Environmental Operating Report

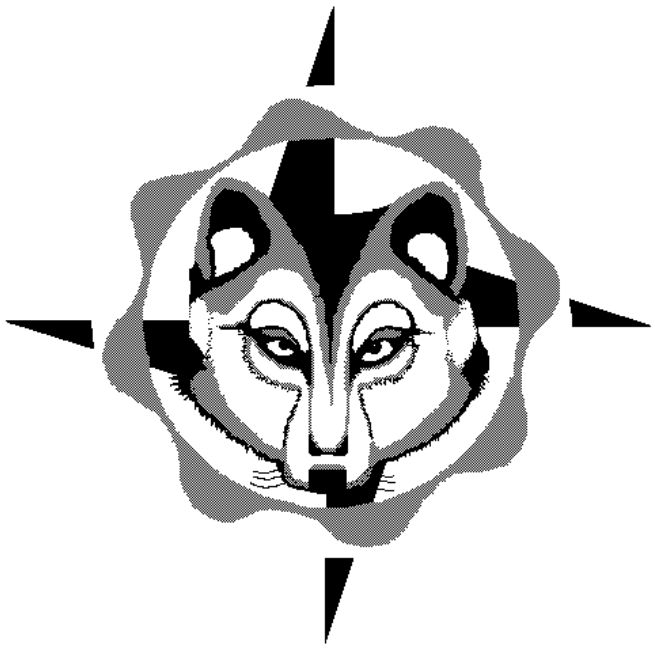
(157 pages including this page)

WOLF CREEK NUCLEAR OPERATING CORPORATION

WOLF CREEK GENERATING STATION

2025 ANNUAL RADIOLOGICAL

ENVIRONMENTAL OPERATING REPORT



2025

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EXECUTIVE SUMMARY

Plant-related activation, corrosion, or fission products were not detected during 2025 in air particulate filters, radioiodine canisters, ground water, drinking water, broadleaf vegetation, shoreline sediment, crops, bottom sediment, aquatic vegetation, terrestrial vegetation, and turkey samples. Activation, corrosion or fission products attributable to plant operation were detected during 2025 in surface water, fish, and deer samples.

Nuclides detected in Radiological Environmental Monitoring Program (REMP) samples were below applicable Nuclear Regulatory Commission (NRC) reporting levels.

Based upon the REMP results, it was concluded station operations had no significant radiological impact on the health and safety of the public or the environment.

INTRODUCTION

The 2025 Annual Radiological Environmental Operating Report for Wolf Creek Generating Station (WCGS) covers the period from January 1 through December 31, 2025. WCGS is in Coffey County, Kansas, approximately five miles northeast of Burlington, Kansas.

Fuel loading commenced at WCGS on March 12, 1985. The operational phase of the REMP began with initial criticality on May 22, 1985, and the first detectable quantities of radioactivity were reported in plant effluents in June 1985.

This report contains a description of the REMP conducted by Wolf Creek Nuclear Operating Corporation (WCNOC), a discussion of monitoring program results, the revisions or changes to the program, program deviations, the Interlaboratory Comparison Program and a comparison to the Radioactive Effluent Release Program. The Interlaboratory Comparison Program results, a summary of results in the NRC Branch Technical Position specified format, the individual sample results, and the Land Use Census Report are included as appendices.

I. PROGRAM DESCRIPTION

Radiological environmental monitoring samples were collected according to the schedule in WCGS procedure AP 07B-004, *Offsite Dose Calculation Manual (Radiological Environmental Monitoring Program)*. Radiological environmental monitoring program samples were collected by the WCGS Environmental Management group and were analyzed by Environmental, Inc. Landauer, Inc. processed the environmental optically stimulated luminescence (OSL) dosimeters. Table 1 identifies the exposure pathway/sample type, number of samples and sample locations, sample collection frequency, and the type and frequency of analysis. Table 2 lists the sample location identifiers, distances and directions from the plant. Samples in addition to those required by AP 07B-004 were also obtained and analyzed.

The following is a description of the sampling and analysis program by individual pathways.

A. Airborne Pathway

Low volume air sampling pumps with digital flow meters continuously sampled air through 47 mm glass fiber particulate filters and radioiodine canisters, respectively. The air particulate filters and radioiodine canisters were collected weekly. Gross beta analysis was performed weekly on the air particulate filters. Gamma isotopic analysis was also performed quarterly on

the air particulate filters. Radioiodine canisters were analyzed weekly for I-131.

Air samples were collected from six locations. The indicator locations sampled included 2, 18, 32, 37 and 49. A control location near the intersection of 20th Road and Yearling Road (location 53) was also sampled. Indicator sample locations are shown in Figure 1 and the control sample location is shown in Figure 5.

B. Direct Radiation Pathway

Optically stimulated luminescence (OSL) dosimeters were used continuously at 44 locations during the sample year to measure direct radiation. The OSLs were typically positioned roughly 3 to 4 feet above the ground in plastic thermostat boxes. Three OSLs were placed at each designated location. The OSLs were changed out quarterly and analyzed quarterly for gamma dose. Transit dose was measured and subtracted from the ambient dose. Indicator OSL sample locations are illustrated in Figure 2 and control sample locations are shown in Figure 5. Control sample locations were 39 (Beto Junction) and 53 (near the intersection of 20th Road and Yearling Road).

C. Waterborne Pathway

Gamma isotopic analysis was performed on the water samples. In addition to gamma isotopic analysis, analysis for I-131 was performed monthly on drinking water and quarterly on ground water samples. Gross beta analysis was performed monthly on drinking water samples. Tritium analysis was performed monthly for surface water and quarterly for drinking water. Tritium analysis was also performed quarterly on ground water samples. Four surface water samples from the Coffey County Lake Spillway (SP) location and four surface water samples from the John Redmond Reservoir (JRR) location were also analyzed for Fe-55. In 2025 HTD were analyzed at SP location. The waterborne pathway sample locations are shown in Figures 3 and 5.

Monthly grab samples of surface water were collected from the John Redmond Reservoir (JRR) control location and from the Coffey County Lake Spillway (SP) indicator location.

Quarterly grab samples of ground water were collected from seven wells. Six locations (C-10, C-49, F-1, G-2, J-1 and J-2) located hydrologically down gradient from the site were used as indicator sample locations. Location B-12 located hydrologically up gradient from the site was used as a control location.

Drinking water was sampled at the water treatment facilities in the towns of Iola (indicator sample location IO-DW) and Burlington (control sample location BW-15). The Iola facility is located downstream of the Neosho River-Wolf Creek confluence and the Burlington facility is located upstream of the Neosho River-Wolf Creek confluence. Composite samples were obtained monthly from automatic samplers at each location. The automatic drinking water samples collected approximately 27 milliliters of water every two hours.

Shoreline sediments were sampled semiannually. Gamma isotopic analyses were performed on the shoreline sediment samples. Shoreline sediment sample locations were the Coffey County Lake discharge cove (DC) indicator location and the John Redmond Reservoir (JRR) control location.

D. Ingestion Pathway

Milk was not collected during the sample year. The Land Use Census did not identify any locations producing milk for human consumption within five miles of the plant.

Fish were sampled semiannually from the indicator sample location Coffey County Lake (CCL) and from the tail waters of John Redmond Reservoir (JRR) control sample location. These sample locations are identified in Figure 4. Gamma isotopic analyses were performed on the boneless meat portions of the fish. Several species of game fish and rough fish were sampled. Fish were also analyzed for tritium.

Broadleaf vegetation samples were collected monthly when available during the growing season. Indicator (A-3, B-1, H-2, R-2 and Q-6) location gardens (Figure 4) and a control (D-2) location garden (Figure 5) were sampled. Gamma isotopic analyses were performed on these samples.

Non-Irrigated crop samples were obtained from indicator locations (NR-D1) and (NR-U1). No irrigated crops were collected in 2025. Gamma isotopic analysis was performed on each sample. Crop sample locations are identified on Figure 5.

E. Additional Samples Collected (not required by AP 07B-004)

Bottom sediment samples were collected semiannually from indicator sample locations at the Discharge Cove (DC), and the control sample location at John Redmond Reservoir (JRR). Three other bottom sediment samples were collected from Makeup Discharge Structure (MUDS), Environmental Education Area (EEA), and Stringtown Cemetery. Gamma isotopic analyses were performed on the bottom sediment samples. Two samples collected from indicator location (DC) were also analyzed for Fe-55. No samples were analyzed for Ni-63, Sr-89 and Sr-90 activity (Hard to Detect Metals). One shoreline sediment sample was collected from indicator sample location at Stringtown Cemetery (SC) as part of a cooperative sampling effort with the Kansas Department of Health and Environment (KDHE). The sample locations are identified on Figure 3.

Aquatic vegetation was collected from indicator locations at the Makeup Discharge Structure (MUDS), Environmental Education Area (EEA) and Stringtown Cemetery (SC). Gamma isotopic analyses were performed on the aquatic vegetation samples. These samples were collected as part of a cooperative sampling effort with the KDHE. The sample locations are identified on Figure 3.

Terrestrial vegetation (grass) was sampled from the Environmental Education Area (EEA) and the Makeup Discharge Structure (MUDS) indicator sample locations. Gamma isotopic analysis was performed on the grass samples. These samples were collected as part of a cooperative sampling effort with the KDHE. The sample locations are identified on Figure 4.

Soil was sampled from the Makeup Discharge Structure (MUDS). Gamma isotopic analysis was performed on the soil sample. This samples was collected as part of a cooperative sampling effort with the KDHE. The sample locations are identified on Figure 4.

Turkey was sampled from indicator sample location R3.9. Gamma isotopic analysis and tritium analysis was performed on the turkey sample. This sample was collected as part of a cooperative sampling effort with the KDHE. The sample location is identified on Figure 4.

Deer was sampled from indicator sample location H1.3. Gamma isotopic analysis and tritium analysis was performed on the deer sample. This sample was collected as part of a cooperative sampling effort with the KDHE. The sample location is identified on Figure 4.

II. DISCUSSION OF RESULTS

Analysis results for pathways are summarized in Appendix B using the format described in Radiological Assessment Branch Technical Position, Revision 1, November 1979 (NRC Generic Letter 79-065). Results for individual samples are listed in Appendix C.

A. Airborne Pathway

Chart 1 graphically illustrates weekly gross beta results for the sample year. Chart 2 represents the gross beta historical airborne smoothed averages of indicator sample locations and control sample locations. Charts 1 and 2 demonstrate how closely the indicator and control sample locations tracked together. Chart 2 reveals a seasonal cyclic trend; the gross beta values peak in the winter months (December or January) and decrease to a low point in the spring months (May or June). This trend is expected and is attributed to seasonal meteorological changes, i.e., changes in prevailing winds and precipitation.

The gross beta results of 2025 were compared to pre-operational monitoring results of 1983 and 1984. The weekly gross beta analyses range for 1983 and 1984 was 0.0064 to 0.084 pCi/m^3. The 2025 weekly gross beta analyses range for indicator locations was 0.009 to 0.059 pCi/m^3. The 2025 weekly gross beta analyses range was within the 1983 and 1984 pre-operational range. Additionally, the annual mean for indicator locations for 2025 (0.025 pCi/m^3) was lower than the annual mean for 1983 (0.032 pCi/m^3).

The gross beta results for the indicator locations were also compared to the control location. The annual mean for indicator locations for 2025 (0.025 pCi/m^3) is the same as our control location (0.025 pCi/m^3). The indicator location with the highest gross beta annual mean was 49, the average of this location is (0.026 pCi/m^3). Just above the mean at the controlled location (0.025 pCi/m^3).

Naturally occurring Be-7 activity was detected, as was the case during pre-operational monitoring. In 1984, the range for Be-7 detected activity was 0.024 to 0.211 pCi/m^3 for indicator locations and the annual mean for indicator locations was 0.069 pCi/m^3. In 2025, the range for Be-7 detected activity was 0.055 to 0.101 pCi/m^3 for indicator locations and the annual mean for indicator locations was 0.073 pCi/m^3. The control location annual mean for Be-7 detected activity (0.068 pCi/m^3) is just lower than the annual mean of the indicator locations (0.073 pCi/m^3). The indicator locations with the highest annual mean of detected Be-7 activity were location 18 and 32 (0.075 pCi/ m^3).

I-131 activity was not detected in the weekly analysis of radioiodine canisters at any location.

The AP 07B-004 required lower limits of detection were met. Plant-related activation, corrosion, or fission products were not detected during 2025 in air particulate filters and radioiodine canisters. No unusual trends were noted.

B. Direct Radiation Pathway

Quarterly OSL dosimeter results for each location are shown in Table 3. Measured values have been converted to a standardized 90-day quarter.

The annual mean of indicator sample locations in 2025 was 20.2 mR per standardized 90-day quarter. The annual mean of the control sample locations in 2025 was 19.9 mR per standardized 90-day quarter.

For pre-operational comparison, in 1981, the annual mean of indicator sample locations was 18.9 mR per standardized 90-day quarter and the annual mean for the control sample locations was 17.1 mR per standardized 90-day quarter. It should be noted WCGS changed from thermoluminescence dosimeters (TLD) to optically stimulated luminescence (OSL) dosimeters in 2008.

The indicator sample locations with the highest annual mean was location 38,54 (20.2 mR per standardized 90-day quarter) which is slightly higher than the annual mean of the control sample locations (19.9 mR per standardized 90-day quarter).

Based upon Condition Report 00027489, improvements were made in measuring and subtracting transit dose in 2010. As expected, the OSL results increased during 2010 based on how transit dosimeters are handled. Chart 3 visibly displays the increase of the OSL results since 2010. Chart 3 also displays how closely the indicator and control location OSL dosimeter results are for 2018. Condition Report 00128355 was written to reduce data elimination based on standard deviation starting in Quarter 3 of 2018. In 2021 no change in trend was noted due to this change.

Chart 4 displays the TLD nearsite sample locations (1, 2, 7-9, 11-14, 18, 26, 27, 29, 30, 37, and 38) and the control sample locations (locations 39 and 48) for the preoperational years through 2007.

C. Waterborne Pathway

(1) Surface Water

Tritium, attributable to WCGS operation, was detected in surface water samples collected from the Coffey County Lake spillway (SP) indicator sample location. The annual mean for detected tritium activity at the SP location was 12,949 pCi/L and the range was 11,324 to 14,149 pCi/L. The detected tritium activity was below the 30,000 pCi/L AP 07B-004 reporting level. Chart 5 illustrates the yearly average of surface water tritium data for the SP location. Chart 5 indicates the average tritium concentration of the SP location has increased slightly from last year. No Tritium activity was detected in the controlled sample, John Redmond Reservoir (JRR).

During pre-operational radiological environmental monitoring, measured radiological activity was not detected in surface water samples.

The AP 07B-004 required lower limits of detection were met. Radionuclides were not detected by the gamma isotopic analyses or by Fe-55 analyses. Also, started running HTD at SP location semi annually to help verify effluent program.

Tritium was the only activity detected during 2025 in surface water samples and no unusual trends were noted.

(2) Ground Water

The AP 07B-004 required lower limits of detection were met for I-131, tritium and gamma isotopic analyses. Radioactivity was not detected in any ground water samples. No unusual trends were noted. Plant-related activation, corrosion or fission products were not detected during 2025 in ground water samples.

(3) Drinking Water

Gross beta activity was detected in drinking water samples collected from the indicator sample location and in samples collected from the control sample location. The annual mean of the indicator sample location gross beta activity (2.480 pCi/L) was slightly higher when compared to the annual mean of the control sample location gross beta activity (2.386 pCi/L). The 2025 annual means of gross beta activity for both the indicator and control sample locations were lower than those of the pre-operational monitoring year of 1984. In 1984, the annual mean of the indicator sample location gross beta activity was 7.5 pCi/L and the annual mean of the control sample location gross beta activity was 6.4 pCi/L.

Chart 6 illustrates the drinking water gross beta results for the last five years and how closely the gross beta results compared for the indicator and control sample locations.

No tritium was detected in the indicator sample location during 2025. No release limits were exceeded, and results were well below required detection limits. No other radionuclides were detected by the gamma isotopic analyses of the indicator or control location samples.

The AP 07B-004 required lower limits of detection were met. Plant-related activation, corrosion, or fission products were not detected during 2025 in drinking water samples and no unusual trends were noted.

(4) Shoreline Sediment

Naturally occurring K-40 was detected in shoreline sediment samples collected from the DC (indicator sample location), JRR (control sample location), and EEA (Environmental Education Area. K-40 was also detected during pre-operational shoreline sediment monitoring.

No other radionuclides were detected in the DC, EEA, SC, or JRR shoreline sediment samples during 2025. The AP 07B-004 required lower limits of detection were met. Plant-related activation, corrosion, or fission products were not detected during 2025 in shoreline sediment samples and no unusual trends were noted.

D. Ingestion Pathway

(1) Milk

Milk was not collected during the sample year since no indicator locations within five miles of the plant were identified during the 2025 Land Use Census.

(2) Fish

Naturally occurring K-40 activity was detected in fish samples obtained from the Coffey County Lake (CCL) indicator sample location and in fish samples obtained from the JRR control sample location. K-40 activity was also detected during pre-operational fish monitoring.

Fish samples were also analyzed for tritium. Fish samples collected from Coffey County Lake had tritium activity detected an annual mean of (8,764 pCi/kg). The detected tritium activity was attributable to plant operation. An adult consuming 21 kilograms of fish, at the maximum measured tritium concentration (9,924 pCi/kg), would receive a committed effective dose equivalent of 0.013 mRem.

Tritium activity was not detected in the control location samples collected from JRR.

No other radionuclides were detected in fish samples during 2025. The AP 07B-004 required lower limits of detection were met, and no unusual trends were noted.

(3) Broadleaf Vegetation

Gamma analyses of broadleaf vegetation samples obtained from indicator and control sample locations detected naturally occurring Be-7 and K-40. Be-7 and K-40 activity were also detected pre-operationally.

No other radionuclides were detected in broadleaf vegetation samples collected during the year. The AP 07B-004 required lower limits of detection were met. Plant-related activation, corrosion, or fission products were not detected during 2025 in broadleaf vegetation samples and no unusual trends were noted.

(4) Crop Samples

Gamma analysis detected naturally occurring K-40 activity to be present in the samples collected from the indicator sample locations and in the samples collected from the control sample location. K-40 activity was also detected during pre-operational crop monitoring. K-40 was the only activity detected in the crop samples.

The AP 07B-004 required lower limits of detection were met. Plant-related activation, corrosion, or fission products were not detected during 2025 in crop samples and no unusual trends were noted.

E. Additional Samples Collected (not required by AP 07B-004)

(1) Bottom Sediment

Gamma analysis detected naturally occurring K-40 activity to be present in the samples collected from the indicator sample locations and in the samples collected from the control sample location. K-40 activity was also detected during pre-operational bottom sediment monitoring.

Cs-137 activity was detected in pre-operational samples. The Cs-137 activity detected in 2025 indicator sample location bottom sediment samples was within the pre-operational range. Cs-137 activity detected in 1981 and 1982 was in the range of 79 to 953 pCi/kg. The decay corrected range of pre-operational Cs-137 activity detected is approximately 28 to 353 pCi/kg.

The detected Cs-137 activity in the sample collected from the indicator sample locations was likely due to fallout since the measured activity is within the decay corrected range of pre-operational Cs-137 detected activity.

Chart 7 plots the Cs-137 detected activity from the discharge cove indicator sample location and JRR control sample location bottom sediment samples. The detected Cs-137 activity measured from the discharge cove location reflects a decreasing trend. The Chart 7 trendline indicates Cs-137 activity detected at the JRR control location has also been decreasing. Chart 7 also displays that in recent years, the detected Cs-137 activity for the JRR and DC sample locations overlap.

Fe-55 activity was not detected in the two samples obtained from indicator sample locations.

No other radionuclides were detected in bottom sediment samples. Plant-related activation, corrosion, or fission products were not detected during 2025 in bottom sediment samples and no unusual trends were noted.

(2) Aquatic Vegetation

Gamma analyses of aquatic vegetation samples obtained from indicator sample locations detected naturally occurring Be-7 and K-40. Be-7 and K-40 activity were also detected during pre-operational monitoring.

No other radionuclides were detected in aquatic vegetation samples. Plant-related activation, corrosion, or fission products were not detected during 2025 in aquatic vegetation samples and no unusual trends were noted.

(3) Terrestrial Vegetation

Naturally occurring Be-7 and K-40 activity were detected in the terrestrial vegetation indicator location samples. No other radionuclides were detected in terrestrial vegetation. Plant-related activation, corrosion or fission products were not detected during 2025 in terrestrial vegetation and no unusual trends were noted.

(4) Soil

Soil samples were not collected by the state in 2025

(5) Turkey (Ingestion Pathway)

Naturally occurring K-40 activity was detected in the turkey sample obtained from the indicator location.

Tritium activity was not detected in the turkey sample in 2025

No other radionuclides were detected in the turkey sample. No unusual trends identified

(6) Deer (Ingestion Pathway)

Naturally occurring K-40 activity was detected in the deer sample obtained from the indicator location.

Tritium activity (2,586 pCi/kg) was also detected in the deer sample. The detected tritium activity was attributable to plant operation.

An adult consuming 72.6 kilograms of deer meat, at the measured tritium concentration (2,586 pCi/kg), would receive a committed effective dose equivalent of 0.012 mRem.

No other radionuclides were detected in the deer sample. No unusual trends were identified.

III. PROGRAM REVISIONS/CHANGES

No revisions or changes were made to AP 07B-004, *Offsite Dose Calculation Manual (Radiological Environmental Monitoring Program)* during 2025.

IV. PROGRAM DEVIATIONS

Air Samples

Air sample location #18 failed to meet the requirement for "continuous sampler operation." Reference CR#10038991. As described in footnote (1) of procedure AP 07B-004, *Offsite Dose Calculation Manual (Radiological Environmental Monitoring Program)*, Table 5-1, deviations are permitted from the required sampling schedule due to malfunction of sampling equipment and other legitimate reasons.

Ground Water Protection

The following information is being provided in association with the Nuclear Energy Institute (NEI) Groundwater Protection Industry Initiative:

Describe offsite ground water or surface water sample results that exceeded the REMP reporting criteria that were voluntarily communicated to State/Local officials during the calendar year – None.

V. INTERLABORATORY COMPARISON PROGRAM

Environmental, Inc., Midwest Laboratory merged to Microbac Laboratories Inc. in 2024. We continued our contract with them to perform radiological analysis of environmental samples for WCNOC. The laboratory participated in the intercomparison studies administered by Environmental Resource Associates, Inc. Appendix A is the Interlaboratory Comparison Program Results for Microbac Laboratories Inc. Intercomparison results, in-house spikes, blanks, duplicates and mixed analyte performance evaluation program results are also contained in Appendix A.

VI. COMPARISON TO THE RADIOACTIVE EFFLUENT RELEASE PROGRAM

As described in the section discussing radioisotopes found in fish from Coffey County Lake, dose that may be received as a result of tritium released from WCGS is comparable with the theoretical doses calculated by the Radioactive Effluent Release Program.

The theoretical doses calculated by the Radioactive Effluent Release Program assume a person drinks the water from Coffey County Lake and eats the fish from Coffey County Lake. Based upon these assumptions the dose to man from both pathways was calculated to be 0.189 mRem for 2025.

Using sample data obtained from the REMP, an adult drinking 2 liters per day of surface water from Coffey County Lake, using the average tritium activity (12,949 pCi/L), would receive a committed effective dose equivalent of 0.591 mRem per year. For an adult eating 21 kg of fish per year from Coffey County Lake, using the average tritium activity (8,764 pCi/kg), would receive a committed effective dose equivalent of 0.012 mRem per year. Based upon the REMP results, the dose from both pathways was calculated to be 0.603 mRem per year.

It should be noted Coffey County Lake is not used as a drinking water source. Calculating the dose to man for tritium detected in the Coffey County Lake surface water is for comparison purposes only.

The tritium dose values are being compared on a qualitative basis. It is not expected that the annual doses, as calculated in the Radioactive Effluent Release Report, would compare directly to those calculated from the REMP. The Radioactive Effluent Release Report provides a “snapshot” of potential dose resulting from the year's releases. The REMP data indicates the accumulated result of releasing tritium into the lake since the start of plant operation.

VII. Condition reports on REMP for 2025

REMP Air Sample Location #18 (CR# 10038991)
REMP Air sample location 18 had power secured briefly on 04/02/25 (CR#10040862)
REMP Ingestion Pathway Sampling (CR# 10042256)
REMP Air Sampler Loss of Power (CR# 10042829)
REMP Iola Drinking water (CR# 10043976)
REMP Air Sampler power shut off (CR# 10044769)

TABLE 1

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM DESCRIPTION
(SAMPLE COLLECTION SPECIFIED BY AP 07B-004)

EXPOSURE PATHWAY/ SAMPLE TYPE	NUMBER OF SAMPLES AND SAMPLE LOCATIONS	SAMPLE COLLECTION FREQUENCY	TYPE AND FREQUENCY OF ANALYSIS
AIRBORNE	**(See Figures 1 & 5)**		
Radioiodine and Particulates	Samples from six locations	Continuous sampler operation with sample collection weekly, or more frequently if required, by dust loading.	Analyze radioiodine canister weekly for I-131
	Samples from locations near the site boundary in three sectors having the highest calculated annual average D/Q and one supplemental location (Locations 2, 18, 37, or 49 on Figure 1)		Analyze particulate filter weekly for gross beta activity; perform quarterly gamma isotopic analysis composite (by location)
	Sample from the vicinity of a community having the highest calculated annual average D/Q (Location 32 on Figure 1, New Strawn)		
	Sample from a control location 9.5 to 18.5 miles distant in a low ranked D/Q sector (Location 53 on Figure 5)		

TABLE 1 (Cont.)

EXPOSURE PATHWAY/ SAMPLE TYPE	NUMBER OF SAMPLES AND SAMPLE LOCATIONS	SAMPLE COLLECTION FREQUENCY	TYPE AND FREQUENCY OF ANALYSIS
DIRECT RADIATION	**(See Figures 2 & 5)**		
	39 routine monitoring stations with two or more dosimeters measuring dose continuously, placed as follows: An inner ring of stations, one in each meteorological sector 0-3 mile range from the site (Locations 1, 7, 9, 11-13, 18, 26, 27, 29, 30, 37, 38, 46, 49, 55, & 54 on Figure 2). An outer ring of stations, one in each meteorological sector in the 3 to 5 mile range from the site (Locations 4, 5, 15-17, 19, 22-25, 32, 34-36, 50 & 51 on Figure 2). Four sectors [A, B, G & J] contain an additional station (Locations 2, 8, 14 & 20). The balance of the stations to be placed in special interest areas such as population centers (Locations 23, 32 & 52), nearby residences	Quarterly	Gamma dose quarterly

TABLE 1 (Cont.)

EXPOSURE PATHWAY/ SAMPLE TYPE	NUMBER OF SAMPLES AND SAMPLE LOCATIONS	SAMPLE COLLECTION FREQUENCY	TYPE AND FREQUENCY OF ANALYSIS
DIRECT RADIATION (cont.)	(many locations are near a residence), schools (Locations 23 & 52), Wilson Cadman Wildlife Education Area (44), CCL Public Fishing Area (46) and in two areas to serve as control stations 10-20 miles distant from the site (Locations 39 and 53 on Figure 5).		
WATERBORNE	(See Figure 3)		
Surface	One sample upstream (Location JRR on Figure 3) and one sample downstream (Location SP on Figure 3).	Monthly grab sample	Monthly gamma isotopic analysis and composite for tritium analysis quarterly
Ground	Samples from one or two sources only if likely to be affected. Indicator samples at locations hydrologically down-gradient of the site (Locations C-10, C-49, F-1, G-2, J-1 and J-2 on Figure 3); control sample at a location hydrologically upgradient of the site (Location B-12 on Figure 3).	Quarterly grab sample	Quarterly gamma isotopic analysis and tritium analysis

TABLE 1 (Cont.)

EXPOSURE PATHWAY/ SAMPLE TYPE	NUMBER OF SAMPLES AND SAMPLE LOCATIONS	SAMPLE COLLECTION FREQUENCY	TYPE AND FREQUENCY OF ANALYSIS
WATERBORNE (cont.)			
Drinking	Sample of municipal water supply at an indicator location downstream of the Neosho River-Wolf Creek confluence (Location IO-DW on Figure 5); control sample from location upstream of the Neosho River-Wolf Creek confluence (Location BW-15 on Figure 3).	Monthly Composite	Monthly gamma isotopic analysis and gross beta analysis of composite sample. Quarterly tritium analysis of composites.
Shoreline Sediment	One sample from the vicinity of Coffey County Lake discharge cove (Location DC on Figure 3); control sample from John Redmond Reservoir (Location JRR on Figure 3).	Semiannually	Semiannual gamma isotopic analysis
INGESTION	(See Figures 4 & 5)		
Milk	Samples from milking animals at three indicator locations within 5 miles of the site having the highest dose potential (currently there are no locations producing milk for human consumption within 5 miles of the site); one sample from a control location greater than 10 miles from the site if indicator locations are sampled.	Semimonthly April to November; monthly December-March	Gamma isotopic analysis and I-131 analysis of each sample

TABLE 1 (Cont.)

EXPOSURE PATHWAY/ SAMPLE TYPE	NUMBER OF SAMPLES AND SAMPLE LOCATIONS	SAMPLE COLLECTION FREQUENCY	TYPE AND FREQUENCY OF ANALYSIS
INGESTION (cont.)			
Fish	Indicator samples of 1 to 3 recreationally important species from Coffey County Lake; control samples of similar species from John Redmond Reservoir spillway (Figure 4).	Semiannually	Gamma isotopic analysis on edible portions
Broadleaf Vegetation	Samples of available broadleaf vegetation from two indicator locations (using the criteria from the "Land Use Census" section) with highest calculated annual average D/Q (Locations A-3 and Q-6 and alternate locations B-1, H-2, N-1 and R-2 on Figure 4); sample of similar broadleaf vegetation from a control location 9.5 to 18.5 miles distant in a low ranked D/Q sector (Location D-2 on Figure 5).	Monthly when available	Gamma isotopic analysis on edible portions
Irrigated Crops	Sample of crops irrigated with water from the Neosho River downstream of the Neosho River - Wolf Creek confluence (locations will vary from year to year, e.g., Location NR-D1 and NR-D2 on Figure 5).	At time of harvest	Gamma isotopic analysis on edible portions

TABLE 2
SAMPLE LOCATION IDENTIFIERS, DISTANCES (Miles) AND DIRECTIONS (Sectors)

Sample Type	Location Identifier	Distance from Reactor	Direction	Sector
Air Particulates and Radioiodine	2	2.7	N	A
	18	3.0	SSE	H
	32	3.1	WNW	P
	37	2.0	NNW	R
	49	0.8	NNE	B
	53	10.8	ENE	D
Dosimeters	1	1.4	N	A
	2	2.7	N	A
	4	4.0	NNE	B
	5	4.1	NE	C
	7	2.1	NE	C
	8	1.7	NNE	B
	9	2.0	ENE	D
	11	1.7	E	E
	12	1.9	ESE	F
	13	1.6	SE	G
	14	2.5	SE	G
	15	4.6	ESE	F
	16	4.3	E	E
	17	3.7	SE	G
	18	3.0	SSE	H
	19	3.9	SSE	H
	20	3.3	S	J
	22	3.9	SSW	K
	23	4.3	SW	L
	24	4.1	WSW	M
	25	3.4	W	N
	26	2.4	WSW	M
	27	2.2	SW	L
	29	2.7	SSW	K
	30	2.5	W	N
	32	3.1	WNW	P
	34	4.4	NW	Q
	35	4.6	NNW	R
	36	4.2	N	A
	37	2.0	NNW	R
	38	1.2	NW	Q
	39	13.1	N	A
	41	0.8	NNW	R
	42	0.8	SSE	H
	43	0.7	WNW	P
	44	3.0	NNW	R

TABLE 2 (Cont.)
SAMPLE LOCATION IDENTIFIERS, DISTANCES (Miles) AND DIRECTIONS (Sectors)

Sample Type	Location Identifier	Distance from Reactor	Direction	Sector
Dosimeters	46	1.6	WNW	P
	49	0.8	NNE	B
	50	3.6	ENE	D
	51	4.3	S	J
	52	3.6	SW	L
	53	10.8	ENE	D
	54	0.18	S	K
	55	0.25	SSW	L
Surface Water	JRR	3.7	W	N
	SP	3.2	SSE	H
Ground Water	B-12	1.9	NNE	B
	C-10	3.0	W	N
	C-49	2.8	SW	L
	F-1	2.5	ESE	F
	G-2	3.6	SE	G
	J-1	3.8	S	J
	J-2	4.3	S	J
Drinking Water	BW-15	3.9	SW	L
	IO-DW	26.1	SSE	H
Shoreline Sediment	DC	0.8	WNW	P
	EEA	3.0	NNW	R
	JRR	3.6	W	N
	SC	0.8	NNW	R
Fish	CCL	0.6	E to NNW	E to R
	JRR	3.7	W	N
Food/Garden	A-3	2.6	N	A
	B-1	0.8	NNE	B
	D-2	14.8	ENE	D
	H-2	3.0	SSE	H
	Q-6	2.4	NW	Q
	R-2	1.9	NNW	R
Crops	NR-D1	8.9	S	J
	NR-D2	11.5	S	J
	NR-U1	4.0	SSW	K
Bottom Sediment	DC	0.9	WNW	P
	EEA	3.0	NNW	R
	ESW	0.5	E	E
	JRR	3.7	W	N
	MUDS	1.5	WNW	P
	UHS	0.6	E	E
Aquatic Vegetation	DC ALT	1.5	NW	Q
	EEA	3.0	NNW	R
	MUDS	1.5	WNW	P
	SC	0.8	NNW	R

TABLE 2 (Cont.)
SAMPLE LOCATION IDENTIFIERS, DISTANCES (Miles) AND DIRECTIONS (Sectors)

Sample Type	Location Identifier	Distance from Reactor	Direction	Sector
Terrestrial Vegetation	EEA	3.0	NNW	R
	MUDS	1.5	WNW	P
Soil	EEA	3.0	NNW	R
	MUDS	1.5	WNW	P
Meat (Turkey)	R3.9	3.9	NNW	R
Meat (Deer)	H1.3	1.3	SSE	H

TABLE 3
OSL Dosimeter Results
(mR/Standardized 90-day Quarter)

Location	Qtr. 1 (mR)	Qtr. 2 (mR)	Qtr. 3 (mR)	Qtr. 4 (mR)	Total Annual Exposure (mR)
1	19.3	17.9	18.4	21.5	77.1
2	17.9	17.3	17.5	17.9	70.6
4	20.0	18.8	20.8	20.4	80.0
5	14.3	17.3	17.5	19.3	68.4
7	19.0	17.9	17.2	19.3	73.4
8	19.3	18.8	19.9	20.8	78.8
9	15.0	14.2	16.2	18.3	63.7
11	18.3	20.0	18.4	18.6	75.3
12	18.6	17.9	18.1	19.0	73.6
13	18.3	19.7	20.2	19.0	77.2
14	17.2	17.9	19.3	20.4	74.8
15	15.8	16.9	17.2	18.3	68.2
16	16.5	16.0	18.7	19.7	70.9
17	17.5	16.9	17.5	17.9	69.8
18	18.6	15.4	17.5	19.0	70.5
19	19.0	17.6	20.5	19.0	76.1
20	17.6	14.8	19.3	17.9	69.6
22	20.4	17.3	21.1	21.5	80.3
23	18.3	18.2	17.5	17.2	71.2
24	20.0	17.9	19.0	18.6	75.5
25	15.4	12.9	16.8	15.0	60.1
26	16.5	14.8	17.8	15.0	64.1
27	19.7	17.6	17.8	17.5	72.6
29	14.0	13.5	15.3	15.0	57.8
30	19.3	17.9	17.5	18.6	73.3
32	15.8	15.7	15.6	19.0	66.1
34	18.6	18.8	19.6	19.7	76.7
35	18.6	17.3	19.0	20.4	75.3
36	16.1	16.9	17.8	18.6	69.4
37	17.9	17.6	19.6	19.0	74.1
38	20.0	19.7	19.0	22.2	80.9
39	16.1	16.3	17.2	17.9	67.5
41	16.1	18.5	18.4	20.4	73.4
42	13.3	11.4	13.2	14.3	52.2
43	12.9	11.1	12.3	14.0	50.3
44	17.2	18.5	19.3	19.0	74.0
46	17.2	16.0	19.3	19.0	71.5
49	16.8	12.6	16.5	18.6	64.5
50	17.5	19.4	21.1	21.1	79.1
51	17.9	16.6	18.4	19.3	72.2
52	19.7	18.8	19.9	22.2	80.6
53	17.2	17.9	19.3	19.7	74.1
54	19.0	19.1	19.9	19.3	77.3
55	19.3	20.0	21.1	21.5	81.9

FIGURE 1

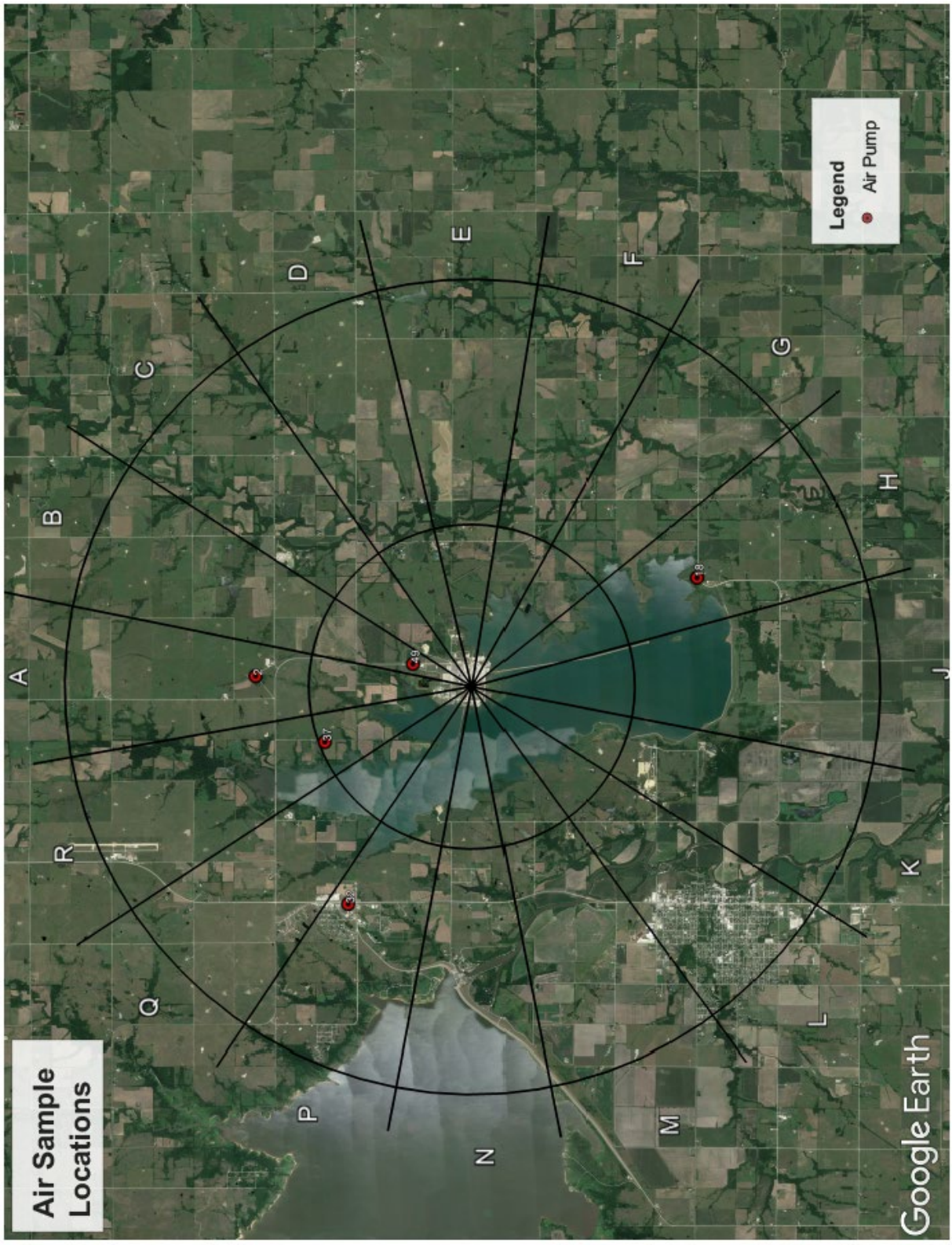
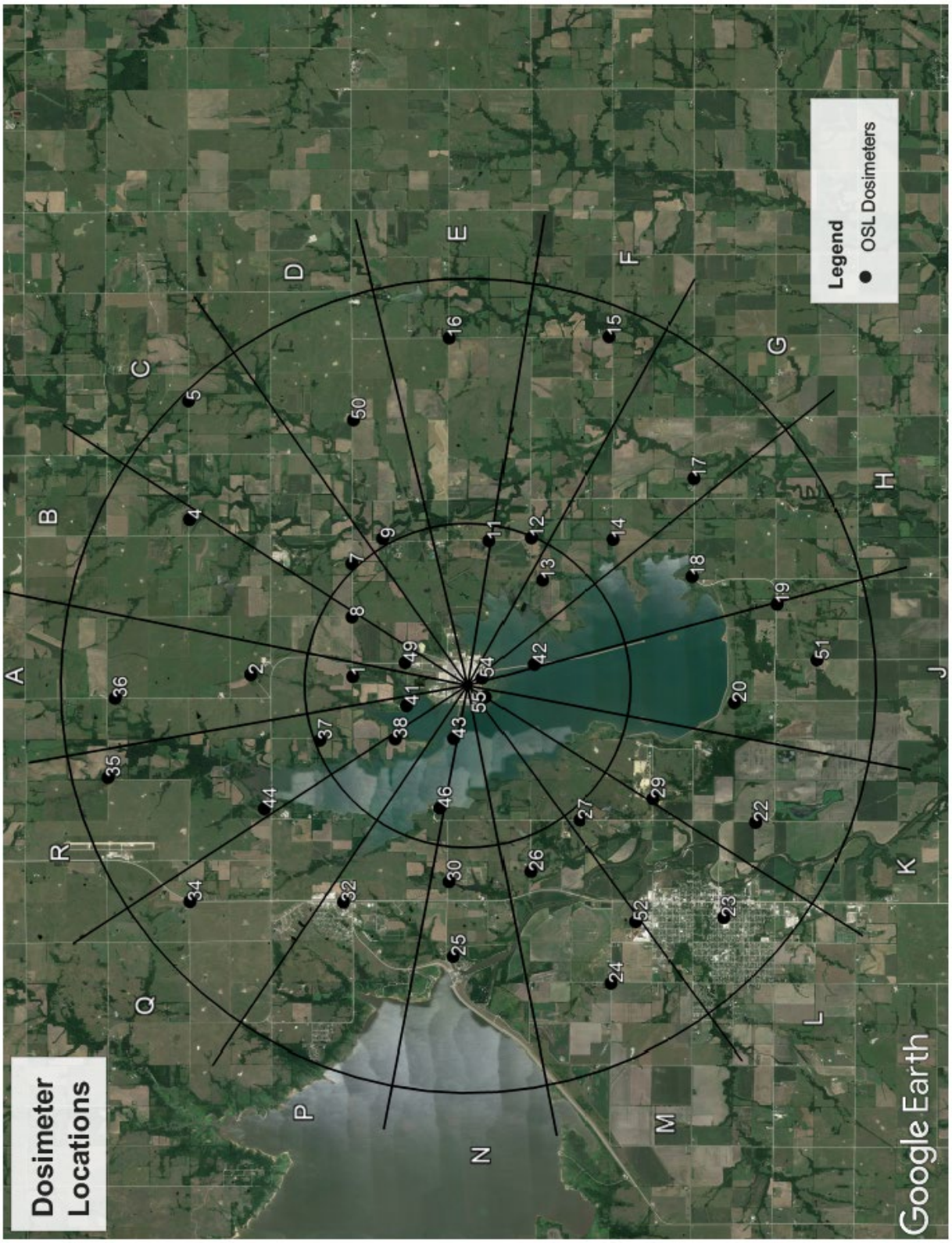

Air Sample Locations
Legend
Air Pump
A
B
C
D
E
F
G
H
J
K
L
M
N
P
Q
R
Google Earth

FIGURE 2


Dosimeter Locations
Legend
OSL Dosimeters
Google Earth
A
B
C
D
E
F
G
H
J
K
L
M
N
P
Q
R
1
2
4
5
7
8
9
11
12
13
14
15
16
17
18
19
20
22
23
24
25
26
27
29
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32
34
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36
37
38
41
42
43
44
46
49
50
51
52
54
55

FIGURE 3

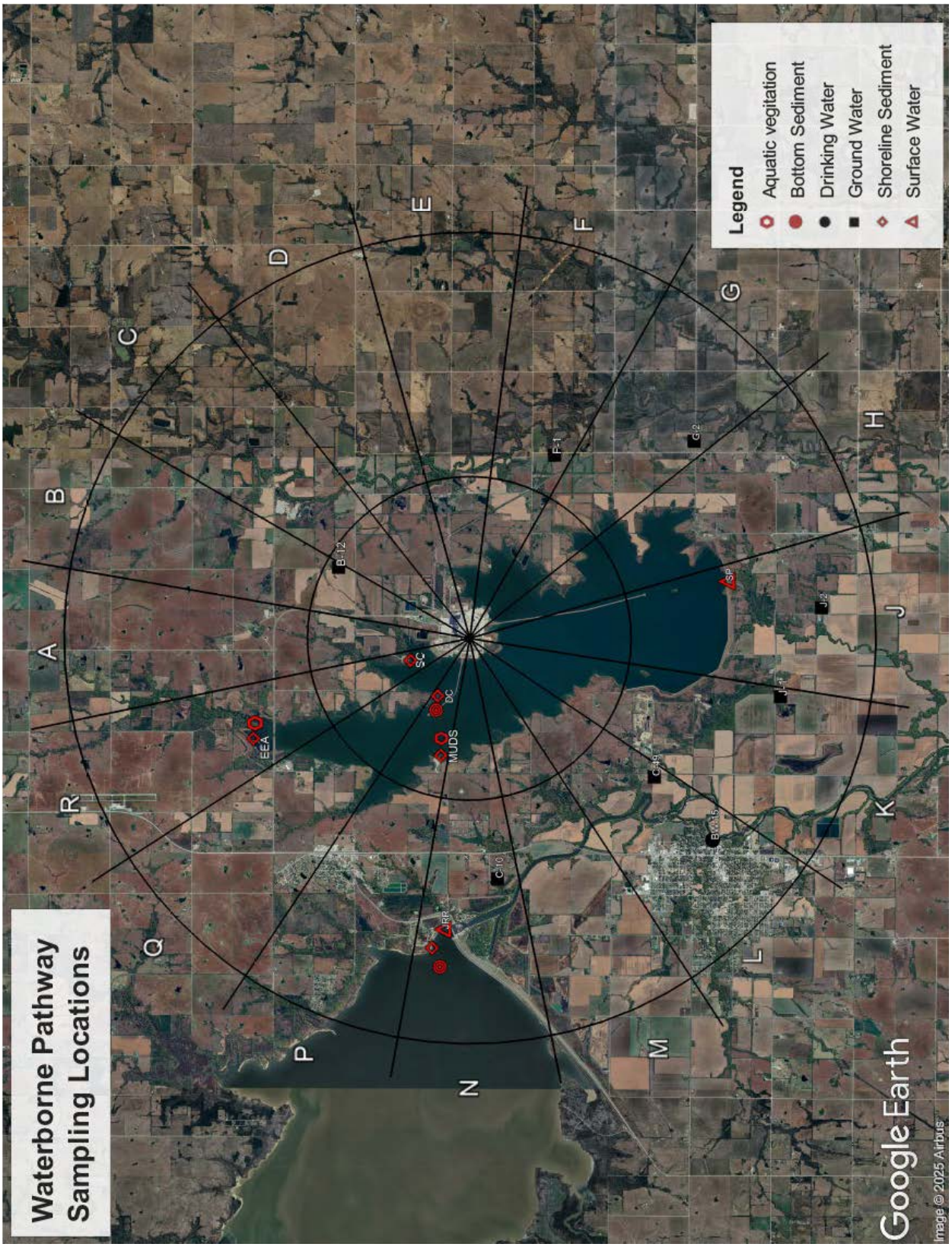

Waterborne Pathway
Sampling Locations
Legend
Aquatic vegitation
Bottom Sediment
Drinking Water
Ground Water
Shoreline Sediment
Surface Water
A
B
C
D
E
F
G
H
J
K
L
M
N
P
Q
R
EEA
SC
DC
MUDS
ARP
Google Earth
Image © 2025 Airbus

FIGURE 4

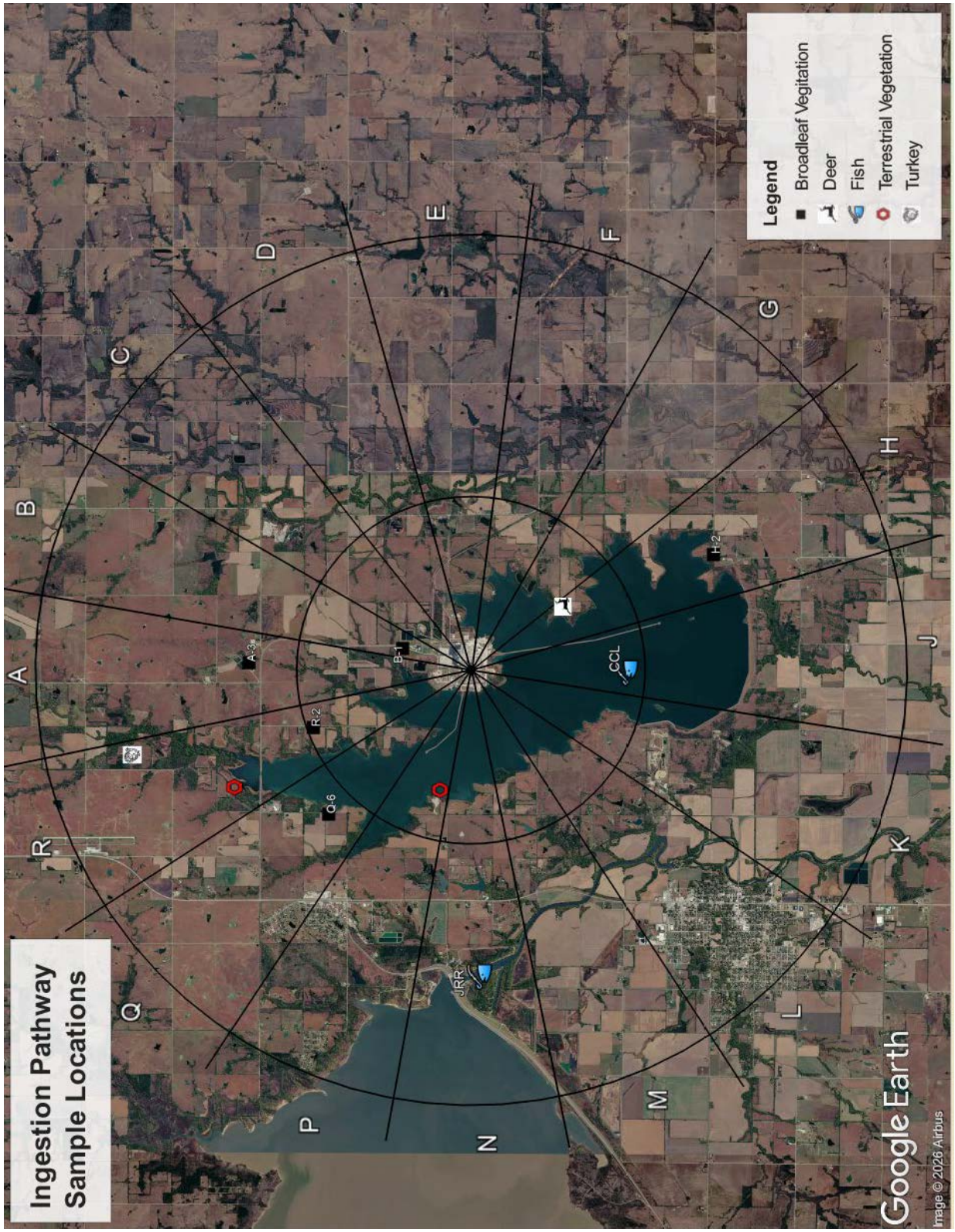

Ingestion Pathway
Sample Locations
Legend
Broadleaf Vegitation
Deer
Fish
Terrestrial Vegetation
Turkey
A
B
C
D
E
F
G
H
J
K
L
M
N
P
Q
R
A-3
B-1
R-2
Q-6
H-2
CCL
JRR
Google Earth
Image © 2026 Airbus

FIGURE 5

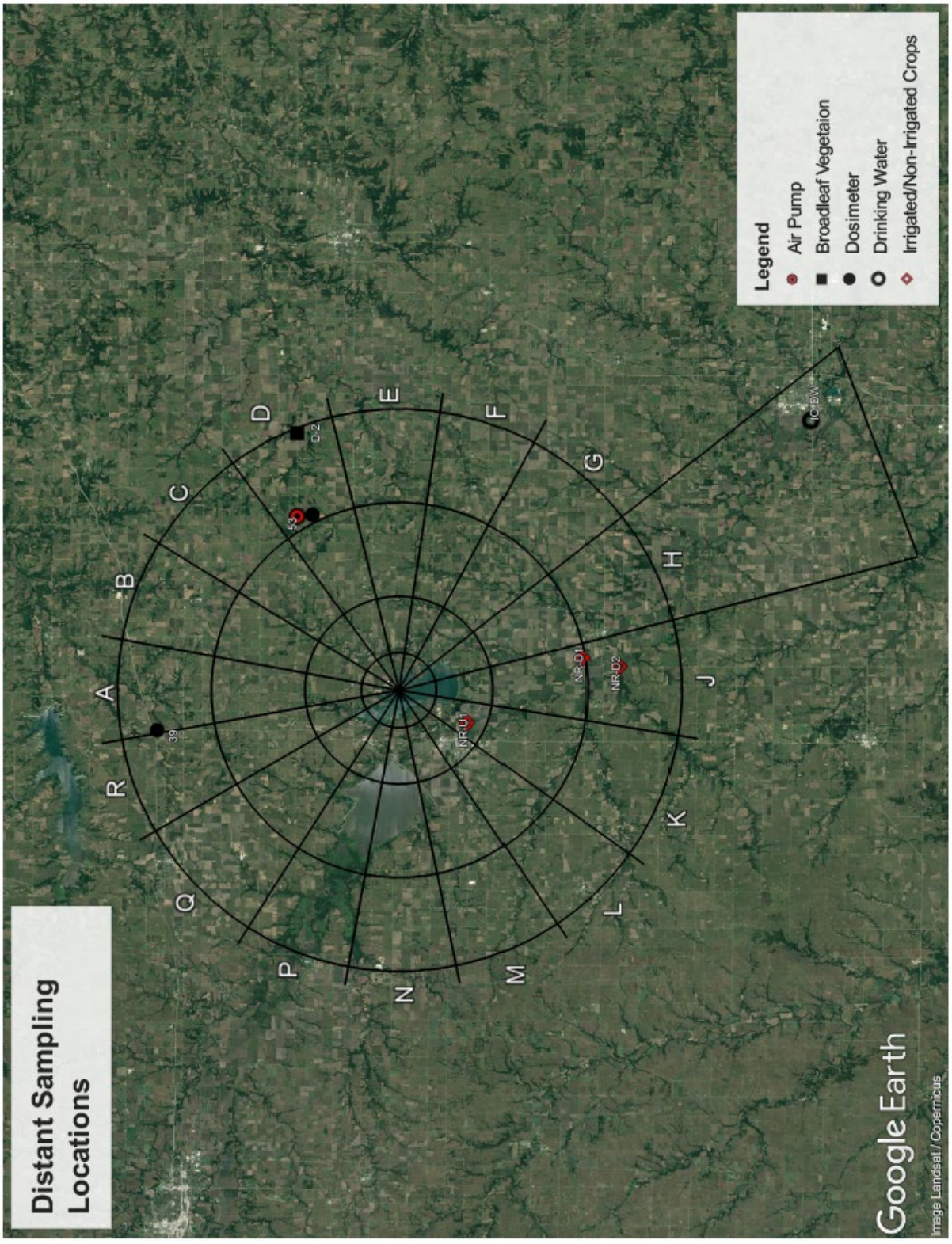

Distant Sampling Locations
Legend
Air Pump
Broadleaf Vegetaion
Dosimeter
Drinking Water
Irrigated/Non-Irrigated Crops
A
B
C
D
E
F
G
H
J
K
L
M
N
P
Q
R
D-2
NR-D1
NR-D2
NR-D3
Google Earth
Image Landsat / Copernicus

CHART 1

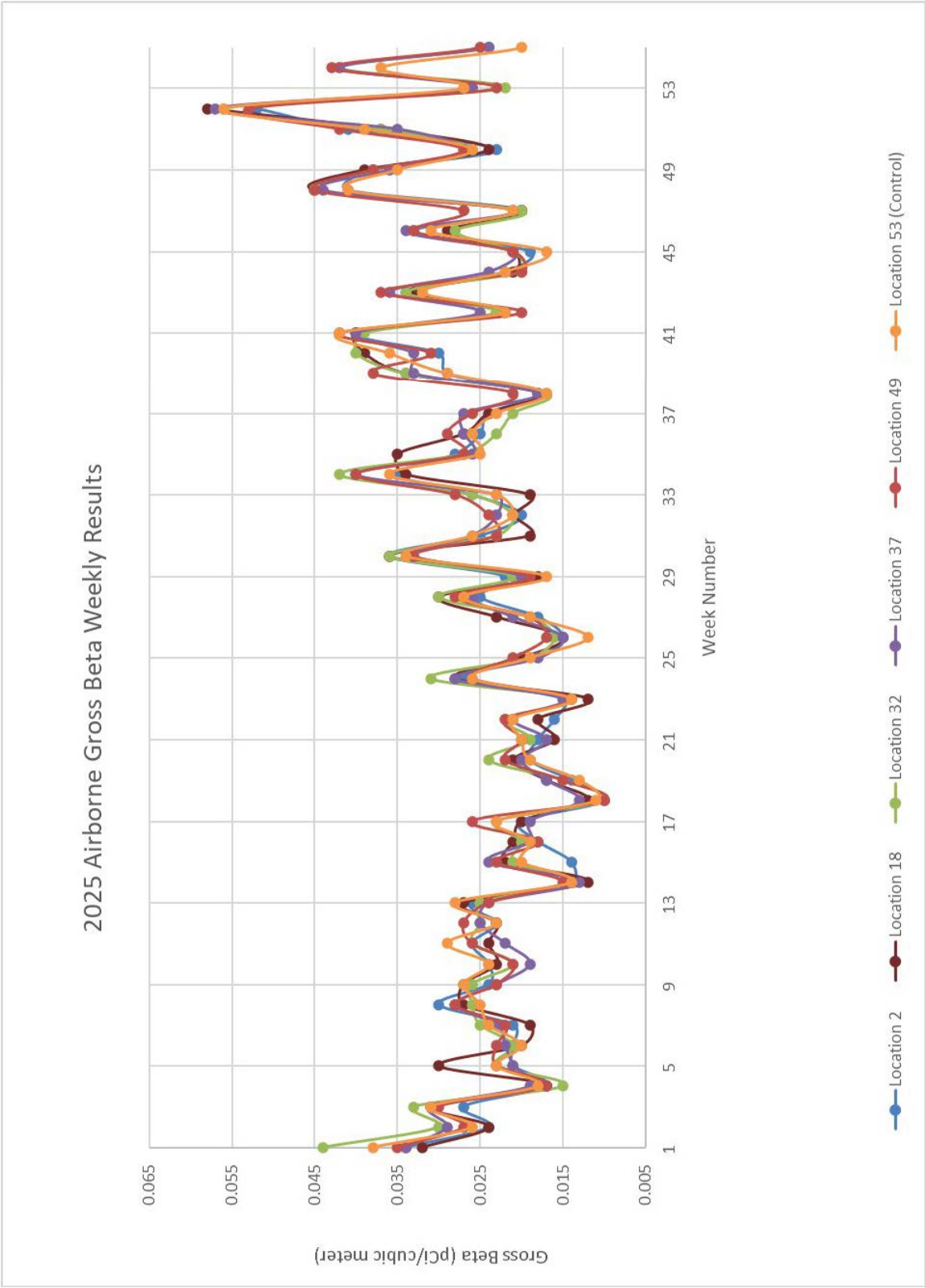

2025 Airborne Gross Beta Weekly Results
Gross Beta (pCi/cubic meter)
0.065
0.055
0.045
0.035
0.025
0.015
0.005
1
5
9
13
17
21
25
29
33
37
41
45
49
53
Week Number
Location 2
Location 18
Location 32
Location 37
Location 49
Location 53 (Control)

CHART 2

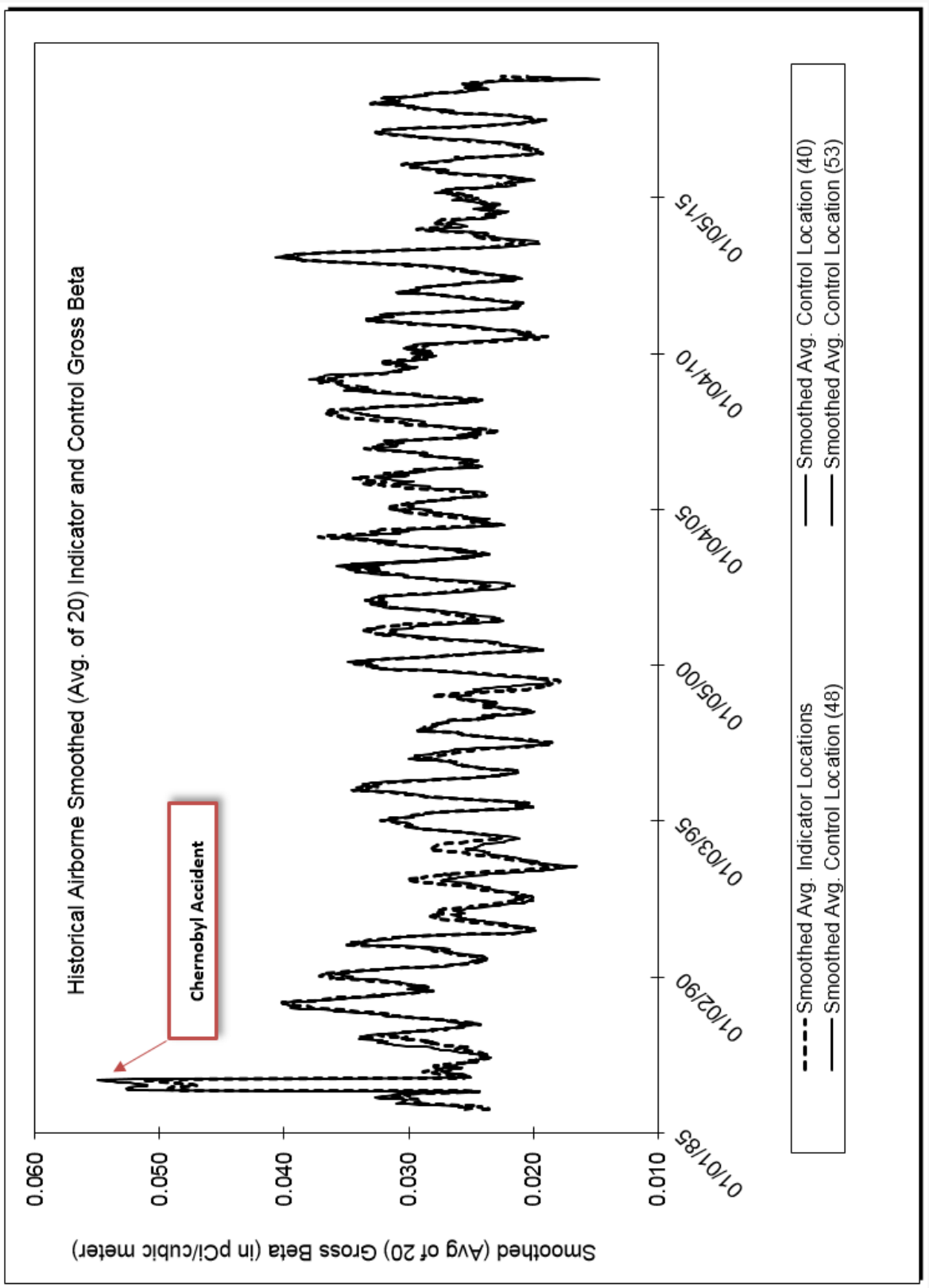

Historical Airborne Smoothed (Avg. of 20) Indicator and Control Gross Beta
Chernobyl Accident
Smoothed (Avg of 20) Gross Beta (in pCi/cubic meter)
0.060
0.050
0.040
0.030
0.020
0.010
01/01/85
01/02/90
01/03/95
01/05/00
01/04/05
01/04/10
01/05/15
Smoothed Avg. Indicator Locations
Smoothed Avg. Control Location (48)
Smoothed Avg. Control Location (40)
Smoothed Avg. Control Location (53)

CHART 3

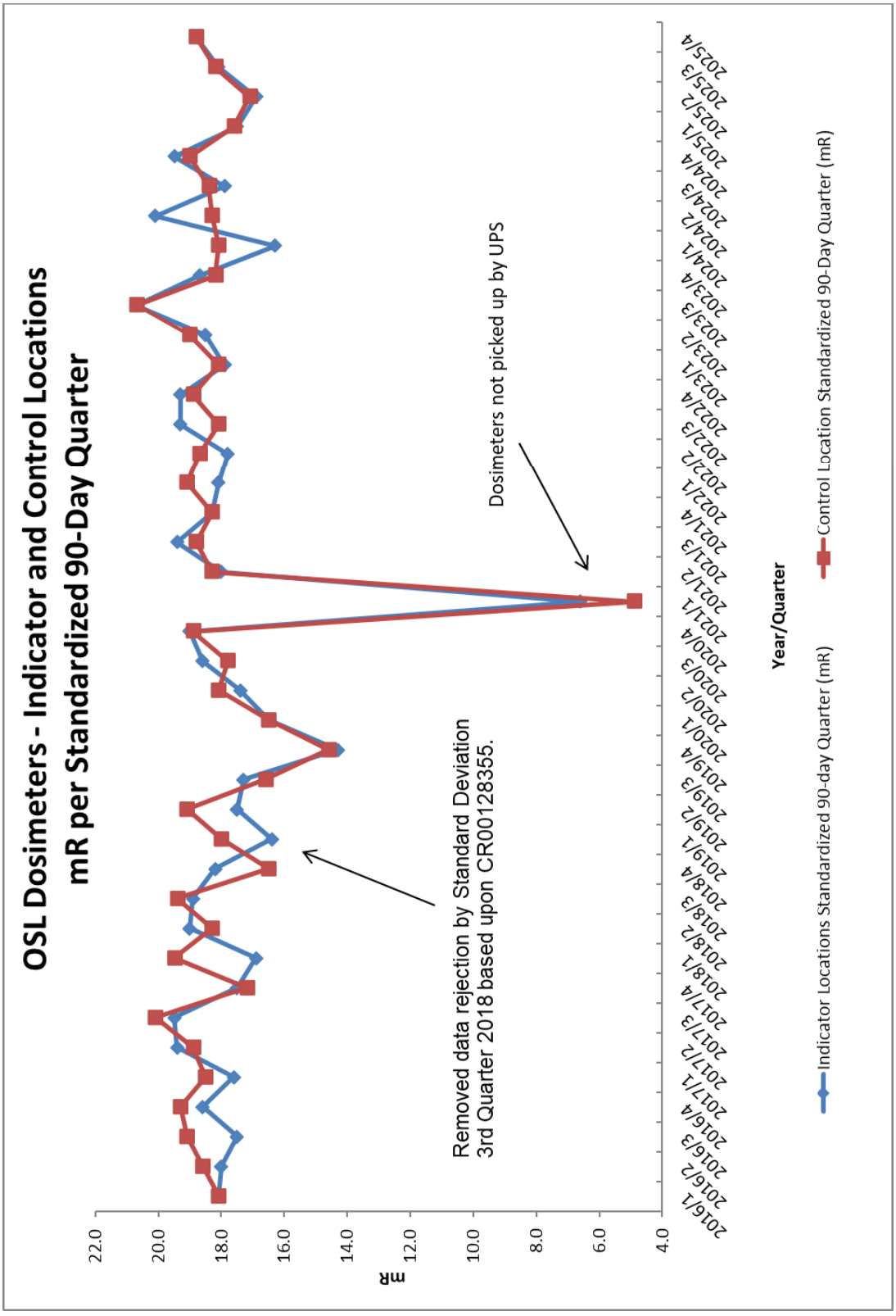

OSL Dosimeters - Indicator and Control Locations
mR per Standardized 90-Day Quarter
Removed data rejection by Standard Deviation
3rd Quarter 2018 based upon CR00128355.
Dosimeters not picked up by UPS
mR
22.0
20.0
18.0
16.0
14.0
12.0
10.0
8.0
6.0
4.0
Year/Quarter
2016/1
2016/2
2016/3
2016/4
2017/1
2017/2
2017/3
2017/4
2018/1
2018/2
2018/3
2018/4
2019/1
2019/2
2019/3
2019/4
2020/1
2020/2
2020/3
2020/4
2021/1
2021/2
2021/3
2021/4
2022/1
2022/2
2022/3
2022/4
2023/1
2023/2
2023/3
2023/4
2024/1
2024/2
2024/3
2024/4
2025/1
2025/2
2025/3
2025/4
Indicator Locations Standardized 90-day Quarter (mR)
Control Location Standardized 90-Day Quarter (mR)

CHART 4

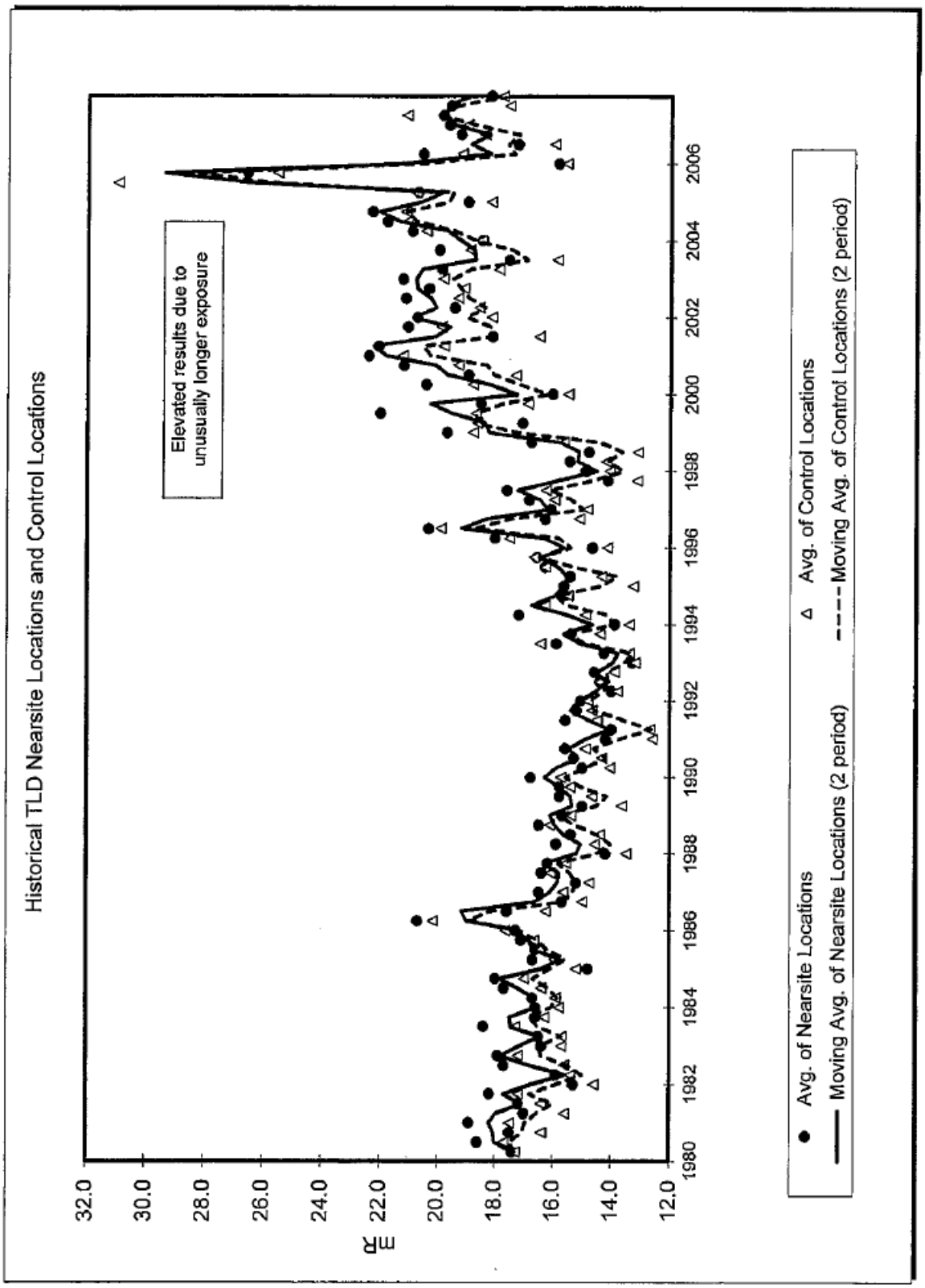

Historical TLD Nearsite Locations and Control Locations
Elevated results due to unusually longer exposure
mR
32.0
30.0
28.0
26.0
24.0
22.0
20.0
18.0
16.0
14.0
12.0
1980
1982
1984
1986
1988
1990
1992
1994
1996
1998
2000
2002
2004
2006
Avg. of Nearsite Locations
Moving Avg. of Nearsite Locations (2 period)
Avg. of Control Locations
Moving Avg. of Control Locations (2 period)

CHART 5

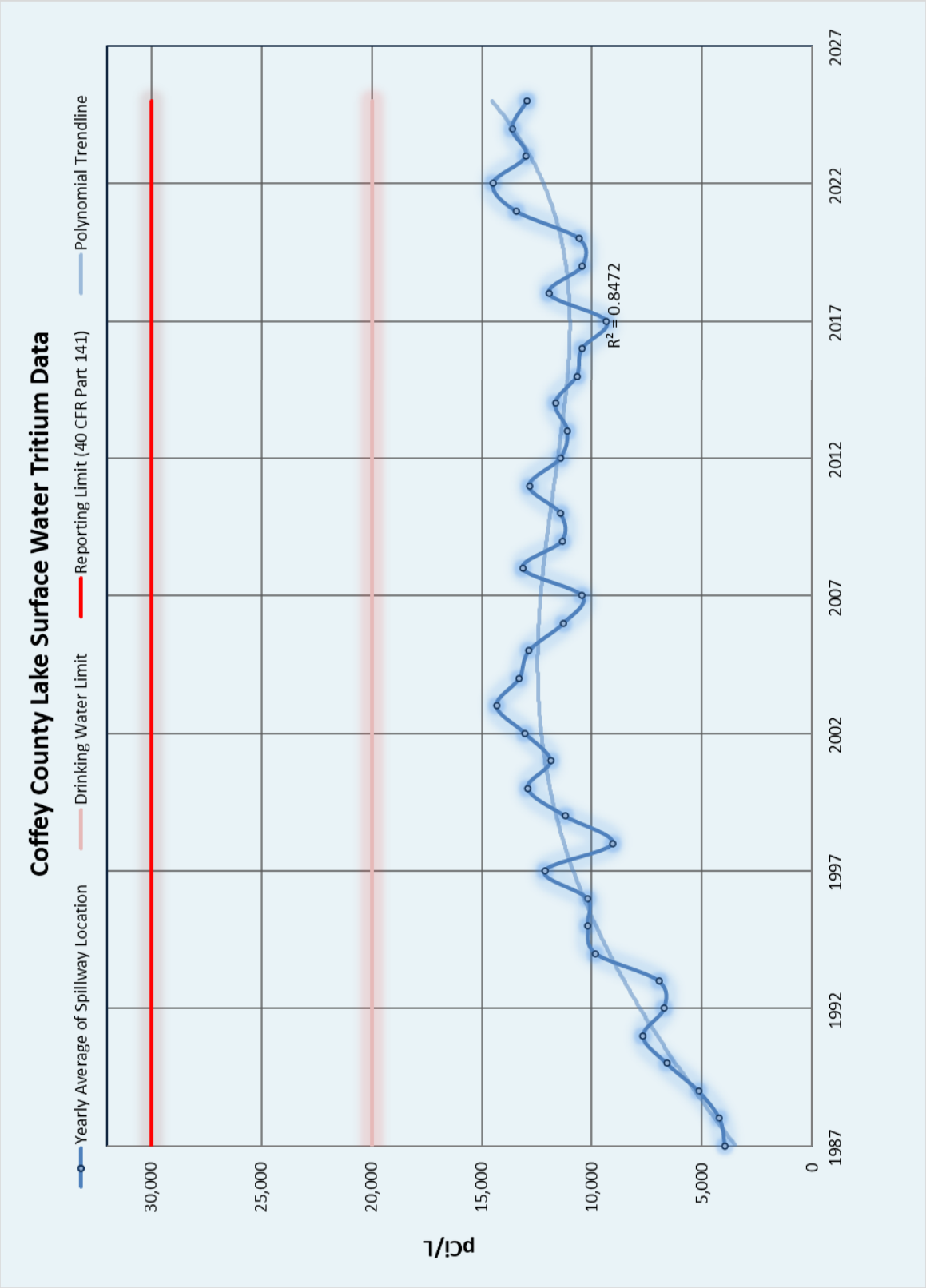

Coffey County Lake Surface Water Tritium Data
Yearly Average of Spillway Location
Drinking Water Limit
Reporting Limit (40 CFR Part 141)
Polynomial Trendline
R² = 0.8472
pCi/L
30,000
25,000
20,000
15,000
10,000
5,000
0
1987
1992
1997
2002
2007
2012
2017
2022
2027

CHART 6

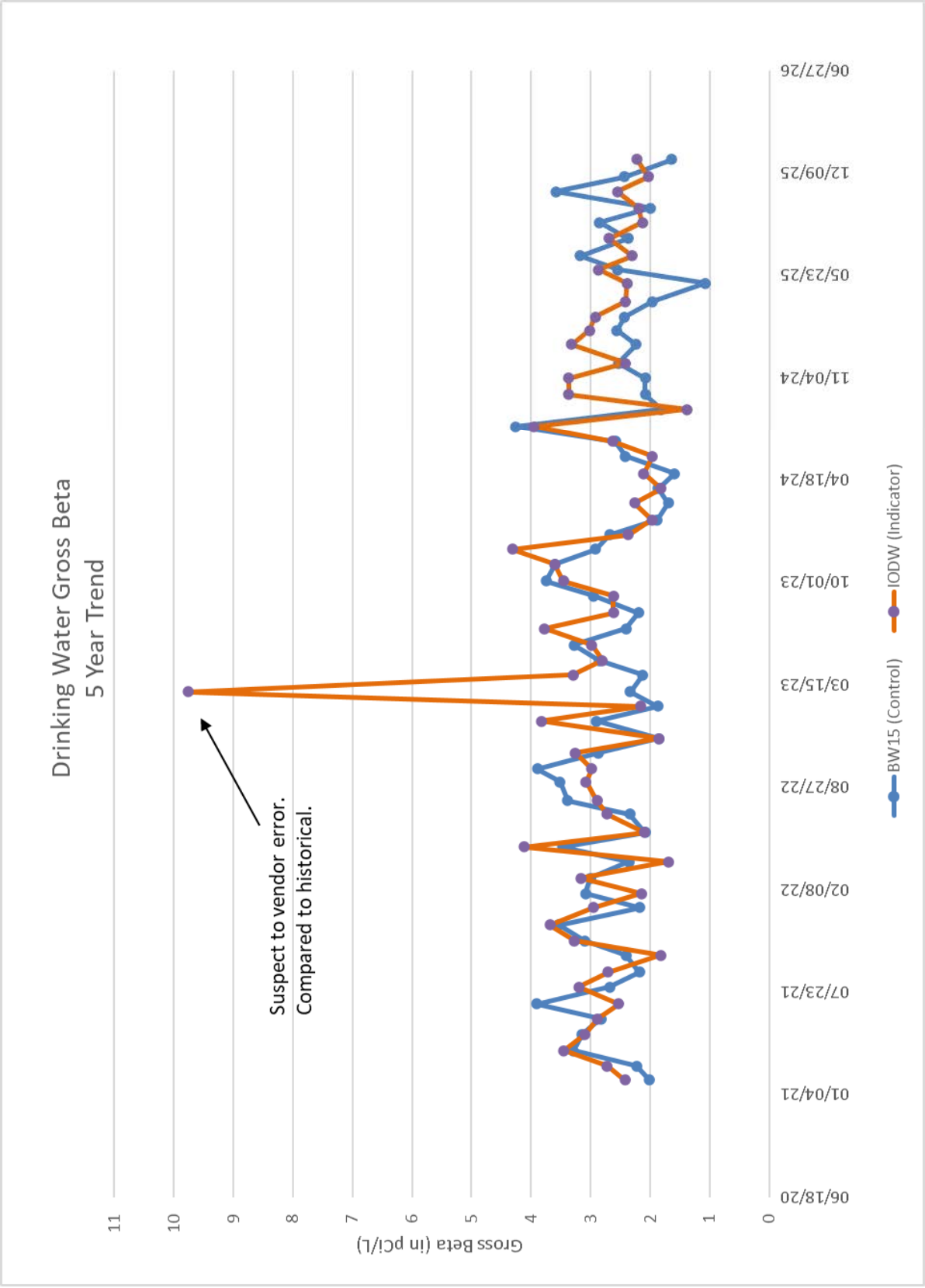
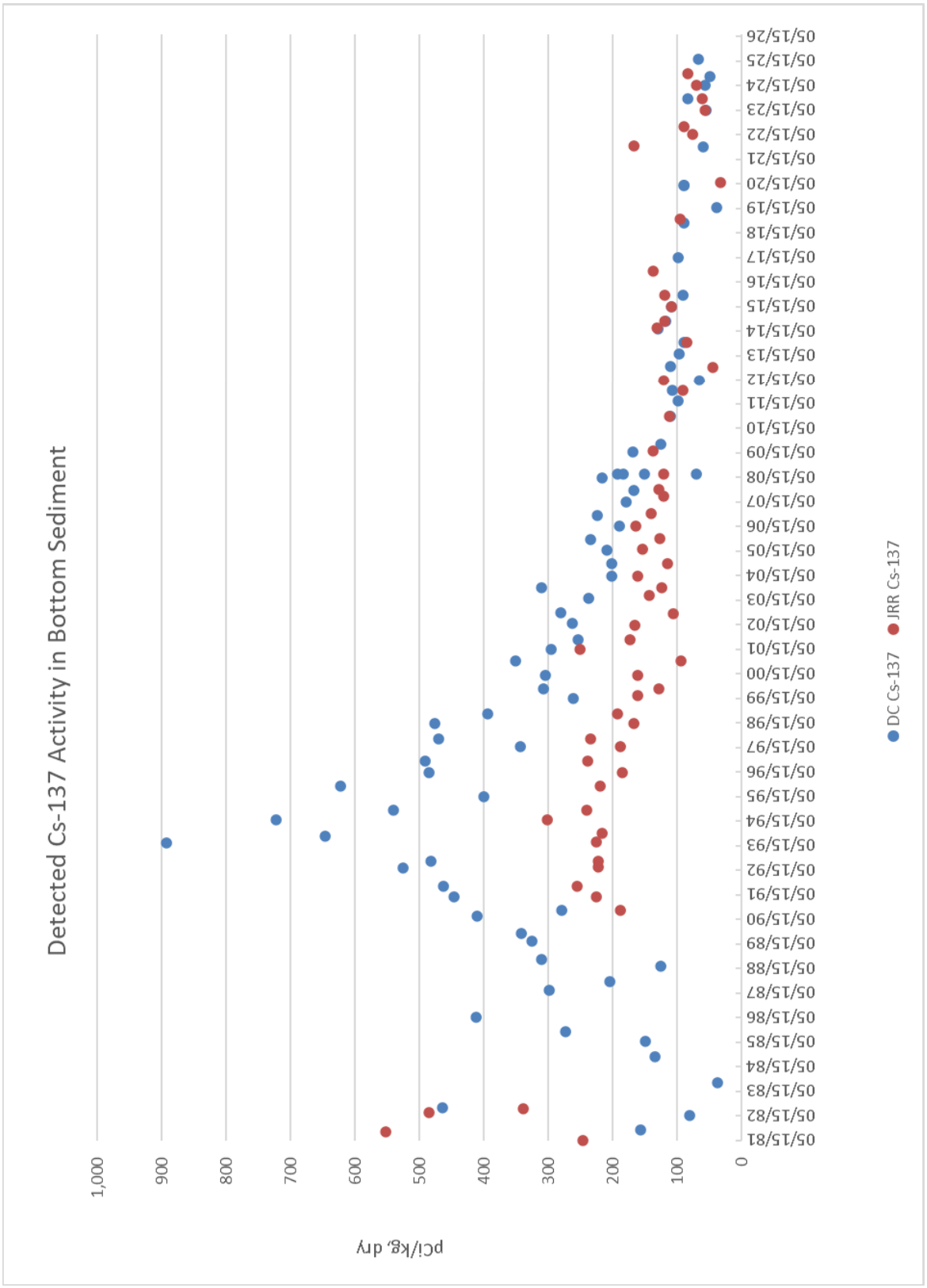

Drinking Water Gross Beta
5 Year Trend
Suspect to vendor error.
Compared to historical.
Gross Beta (in pCi/L)
0
1
2
3
4
5
6
7
8
9
10
11
06/18/20
01/04/21
07/23/21
02/08/22
08/27/22
03/15/23
10/01/23
04/18/24
11/04/24
05/23/25
12/09/25
06/27/26
BW15 (Control)
IODW (Indicator)

CHART 7


Detected Cs-137 Activity in Bottom Sediment
pCi/kg, dry
1,000
900
800
700
600
500
400
300
200
100
0
05/15/26
05/15/25
05/15/24
05/15/23
05/15/22
05/15/21
05/15/20
05/15/19
05/15/18
05/15/17
05/15/16
05/15/15
05/15/14
05/15/13
05/15/12
05/15/11
05/15/10
05/15/09
05/15/08
05/15/07
05/15/06
05/15/05
05/15/04
05/15/03
05/15/02
05/15/01
05/15/00
05/15/99
05/15/98
05/15/97
05/15/96
05/15/95
05/15/94
05/15/93
05/15/92
05/15/91
05/15/90
05/15/89
05/15/88
05/15/87
05/15/86
05/15/85
05/15/84
05/15/83
05/15/82
05/15/81
DC Cs-137
JRR Cs-137

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APPENDIX A

INTERLABORATORY AND INTRALABORATORY COMPARISON PROGRAM RESULTS

NOTE: Appendix A is updated four times a year. The complete appendix is included in March, June, September and December monthly progress reports only.

January, 2025 through December, 2025

Appendix A

Interlaboratory/ Intralaboratory Comparison Program Results

Microbac Laboratories Inc. - Northbrook, formerly Environmental Inc., Midwest Laboratory, has participated in interlaboratory comparison (crosscheck) programs since the formulation of its quality control program in December 1971. These programs are operated by agencies which supply operated by agencies which supply environmental type samples containing concentrations of radionuclides known to the issuing agency but not to participant laboratories. The purpose of such a program is to provide an independent check on a laboratory's analytical procedures and to alert it of any possible problems.

Participant laboratories measure the concentration of specified radionuclides and report them to the issuing agency. Several months later, the agency reports the known values to the participant laboratories and specifies control limits. Results consistently higher or lower than the known values or outside the control limits indicate a need to check the instruments or procedures used.

Results in Table A-1 were obtained through participation in the RAD PT Study Proficiency Testing Program administered by Environmental Resource Associates, serving as a replacement for studies conducted previously by the U.S. EPA Environmental Monitoring Systems Laboratory, Las Vegas, Nevada.

Table A-2 lists results for thermoluminescent dosimeters (TLDs), via irradiation and evaluation by the University of Wisconsin-Madison Radiation Calibration Laboratory at the University of Wisconsin Medical Radiation Research Center.

Table A-3 lists results of the analyses on intralaboratory "spiked" samples for the past twelve months. All samples are prepared using NIST traceable sources. Data for previous years available upon request.

Table A-4 lists results of the analyses on intralaboratory "blank" samples for the past twelve months. Data for previous years available upon request.

Table A-5 lists analytical results from the intralaboratory "duplicate" program for the past twelve months. Acceptance is based on a relative percent difference of 25% or the two sigma incertainties overlap, subject to matrix homogeneity.

The results in Table A-6 were obtained through participation in the Mixed Analyte Performance Evaluation Program.

Results in Table A-7 were obtained through participation in the MRAD PT Study Proficiency Testing Program administered by Environmental Resource Associates, serving as a replacement for studies conducted previously by the Environmental Measurement Laboratory Quality Assessment Program (EML).

Attachment A lists the laboratory acceptance criteria for various analyses.

Out-of-limit results are explained directly below the result.

Attachment A

ACCEPTANCE CRITERIA FOR INTRALABORATORY "SPIKED" SAMPLES

Analysis	Ratio of lab result to known value.
Gamma Emitters	0.8 to 1.2
Strontium-89, Strontium-90	0.8 to 1.2
Potassium-40	0.8 to 1.2
Gross alpha	0.5 to 1.5
Gross beta	0.8 to 1.2
Tritium	0.8 to 1.2
Radium-226, Radium-228	0.7 to 1.3
Plutonium	0.8 to 1.2
Iodine-129, Iodine-131	0.8 to 1.2
Nickel-63, Technetium-99, Uranium-238	0.7 to 1.3
Iron-55	0.8 to 1.2
Other Analyses	0.8 to 1.2

TABLE A-1. Interlaboratory Comparison Crosscheck program, Environmental Resource Associates (ERA)[a].

Lab Code	Analysis	Concentration (pCi/L) Reported Value	Assigned Value	Acceptance Limits	Acceptance
RAD-140 Study (study dates 01/13/25 - 02/27/25)					
ERDW-3283	Ba-133	88.7	89.7	71.5 - 108	Pass
ERDW-3283	Cs-134	35.3	38.4	25.4 - 51.4	Pass
ERDW-3283	Cs-137	155	157	123 - 191	Pass
ERDW-3283	Co-60	67.2	66.8	50.9 - 82.7	Pass
ERDW-3283	Zn-65	71.6	74.3	39.3 - 109	Pass
ERDW-3281	Gr. Alpha	49.4	72.2	55.3 - 89.1	Fail[b]
ERDW-3281	G. Beta	59.0	59.2	44.1 - 74.3	Pass
ERDW-3279	Ra-228	5.54	6.00	3.98 - 8.02	Pass
ERDW-3279	Uranium	67.1	63.6	56.6 - 70.6	Pass
ERDW-3285	H-3	11,884	11,400	9,340 - 13,500	Pass
ERA-032425M Study (study dates 03/24/25 - 04/04/25)					
ERDW-3786	Gr. Alpha	43.8	51.7	38.9 - 64.5	Pass
ERA-030525U Study (study dates 03/05/25 - 04/15/25)					
ERDW-3631	Ra-226	17.5	18.2	15.5 - 20.9	Pass
ERA-060325P Study (study dates 06/03/25 - 06/30/25)					
ERDW-4378	Ra-226	12.2	10.9	8.89 - 12.9	Pass
ERDW-4378	Ra-228	2.34	3.25	1.78 - 4.72	Pass
ERDW-4378	Uranium	52.4	49.6	44.0 - 55.2	Pass
ERA-060525P Study (study dates 06/05/25 - 06/23/25)					
ERDW-4417	Gr. Alpha	17.4	15.6	10.0 - 21.2	Pass
ERDW-4417	G. Beta	21.7	22.9	15.0 - 30.8	Pass
RAD-142 Study (study dates 07/07/25 - 08/21/25)					
ERDW-4671	Ba-133	30.1	30.1	17.9 - 42.3	Pass
ERDW-4671	Cs-134	58.5	65.6	49.8 - 81.4	Pass
ERDW-4671	Cs-137	156	152	118 - 186	Pass
ERDW-4671	Co-60	122.0	113.0	92.5 - 134	Pass
ERDW-4671	Zn-65	85.5	80.6	44.9 - 116	Pass
ERDW-4672	Gr. Alpha	24.1	33.8	24.6 - 43.0	Fail[b]
ERDW-4672	G. Beta	41.0	41.7	30.1 - 53.3	Pass
ERDW-4674	H-3	16,400	15,800	13,300 - 18,300	Pass

[a] Results obtained by Microbac Laboratories Inc. - Northbrook as a participant in the crosscheck program for proficiency testing in drinking water conducted by Environmental Resource Associates (ERA).

[b] The gross alpha failures of ERA studies RAD-140 and RAD-142 are believed to be due to inhomegeity of the solids in the sample matrices which is assumed to have a greater effect on the gross alpha results than on the gross beta results.

TABLE A-2. Thermoluminescent Dosimetry, (TLD, $CaSO_4$: Dy Cards).[a]

Lab Code	Irradiation Date	Description	Delivered Dose (mrem)	Reported[b] Dose (mrem)	Performance[c] Quotient (P)	
Environmental, Inc.		Group 1				
2024-25-1	1/6/2025	Spike 1	92.0	91.8	0.00	
2024-25-1	1/6/2025	Spike 2	92.0	89.7	-0.03	
2024-25-1	1/6/2025	Spike 3	92.0	92.0	0.00	
2024-25-1	1/6/2025	Spike 4	92.0	92.9	0.01	
2024-25-1	1/6/2025	Spike 5	92.0	91.8	0.00	
2024-25-1	1/6/2025	Spike 6	92.0	98.0	0.07	
2024-25-1	1/6/2025	Spike 7	92.0	94.6	0.03	
2024-25-1	1/6/2025	Spike 8	92.0	94.2	0.02	
2024-25-1	1/6/2025	Spike 9	92.0	95.4	0.04	
2024-25-1	1/6/2025	Spike 10	92.0	91.3	-0.01	
2024-25-1	1/6/2025	Spike 11	92.0	89.4	-0.03	
2024-25-1	1/6/2025	Spike 12	92.0	97.7	0.06	
2024-25-1	1/6/2025	Spike 13	92.0	94.1	0.02	
2024-25-1	1/6/2025	Spike 14	92.0	92.2	0.00	
2024-25-1	1/6/2025	Spike 15	92.0	92.9	0.01	
2024-25-1	1/6/2025	Spike 16	92.0	91.7	0.00	
2024-25-1	1/6/2025	Spike 17	92.0	87.4	-0.05	
2024-25-1	1/6/2025	Spike 18	92.0	94.7	0.03	
2024-25-1	1/6/2025	Spike 19	92.0	91.0	-0.01	
2024-25-1	1/6/2025	Spike 20	92.0	92.5	0.01	
Mean (Spike 1-20)				92.8	0.01	Pass[d]
Standard Deviation (Spike 1-20)				2.6	0.03	Pass[d]

a TLD's were irradiated by the University of Wisconsin-Madison Radiation Calibration Laboratory following ANSI N13.37 protocol from a known air kerma rate. TLD's were read and the results were submitted by Microbac Laboratories - Northbrook to the University of Wisconsin-Madison Radiation Calibration Laboratory for comparison to the delivered dose.

b Reported dose was converted from exposure (R) to Air Kerma (cGy) using a conversion of 0.876. Conversion from air kerma to ambient dose equivalent for Cs-137 at the reference dose point $H^*(10)K_a = 1.20$. mrem/cGy = 1000.

c Performance Quotient (P) is calculated as ((reported dose - conventionally true value) ÷ conventionally true value) where the conventionally true value is the delivered dose.

d Acceptance is achieved when neither the absolute value of the mean of the P values, nor the standard deviation of the P values exceed 0.15.

TABLE A-2. Thermoluminescent Dosimetry, (TLD, $CaSO_4$: Dy Cards).[a]

			mrem		
Lab Code	Irradiation Date	Description	Delivered Dose	Reported[b] Dose	Performance[c] Quotient (P)	
Environmental, Inc.		Group 2				
2024-25-2	1/6/2025	Spike 21	74.0	77.5	0.05	
2024-25-2	1/6/2025	Spike 22	74.0	77.6	0.05	
2024-25-2	1/6/2025	Spike 23	74.0	73.2	-0.01	
2024-25-2	1/6/2025	Spike 24	74.0	75.4	0.02	
2024-25-2	1/6/2025	Spike 25	74.0	75.3	0.02	
2024-25-2	1/6/2025	Spike 26	74.0	77.8	0.05	
2024-25-2	1/6/2025	Spike 27	74.0	73.1	-0.01	
2024-25-2	1/6/2025	Spike 28	74.0	74.0	0.00	
2024-25-2	1/6/2025	Spike 29	74.0	75.8	0.02	
2024-25-2	1/6/2025	Spike 30	74.0	76.5	0.03	
2024-25-2	1/6/2025	Spike 31	74.0	73.5	-0.01	
2024-25-2	1/6/2025	Spike 32	74.0	75.5	0.02	
2024-25-2	1/6/2025	Spike 33	74.0	76.5	0.03	
2024-25-2	1/6/2025	Spike 34	74.0	76.4	0.03	
2024-25-2	1/6/2025	Spike 35	74.0	75.1	0.01	
2024-25-2	1/6/2025	Spike 36	74.0	72.8	-0.02	
2024-25-2	1/6/2025	Spike 37	74.0	76.0	0.03	
2024-25-2	1/6/2025	Spike 38	74.0	74.9	0.01	
2024-25-2	1/6/2025	Spike 39	74.0	75.4	0.02	
2024-25-2	1/6/2025	Spike 40	74.0	70.8	-0.04	
Mean (Spike 21-40)				75.2	0.02	Pass[d]
Standard Deviation (Spike 21-40)				1.8	0.02	Pass[d]

a TLD's were irradiated by the University of Wisconsin-Madison Radiation Calibration Laboratory following ANSI N13.37 protocol from a known air kerma rate. TLD's were read and the results were submitted by Microbac Laboratories - Northbrook to the University of Wisconsin-Madison Radiation Calibration Laboratory for comparison to the delivered dose.

b Reported dose was converted from exposure (R) to Air Kerma (cGy) using a conversion of 0.876. Conversion from air kerma to ambient dose equivalent for Cs-137 at the reference dose point $H^*(10)K_a = 1.20$. mrem/cGy = 1000.

c Performance Quotient (P) is calculated as ((reported dose - conventionally true value) ÷ conventionally true value) where the conventionally true value is the delivered dose.

d Acceptance is achieved when neither the absolute value of the mean of the P values, nor the standard deviation of the P values exceed 0.15.

TABLE A-3. Intralaboratory "Spiked" Samples

Lab Code[b]	Reference Date	Analysis	Concentration[a] Laboratory results 2s, n=1[c]	Known Activity	Control Limits[d]	Acceptance	Ratio Lab/Known
SPDW-60670	1/20/25	Ra-228	11.9 ± 1.6	15.3	10.7 - 19.9	Pass	0.78
SPDW-60708	2/5/25	H-3	20,675 ± 456	22,100	17,680 - 26,520	Pass	0.94
SPDW-60787	3/10/25	H-3	21,002 ± 459	22,100	17,680 - 26,520	Pass	0.95
LCS-W-011525B	8/1/24	Co-57	699 ± 24	713	570 - 855	Pass	0.98
LCS-W-011525B	8/1/24	Cs-134	530 ± 8	602	482 - 723	Pass	0.88
LCS-W-011525B	8/1/24	Zn-65	543 ± 38	616	492 - 739	Pass	0.88
LCS-W-011525B	8/1/24	Mn-54	369 ± 21	343	274 - 411	Pass	1.08
LCS-W-011525B	8/1/24	Fe-59	1,825 ± 325	1,553	1,242 - 1863	Pass	1.18
LCS-W-011625	8/1/23	Mn-54	345 ± 28	343	274 - 412	Pass	1.01
LCS-W-011625	8/1/23	Cs-134	261 ± 15	305	244 - 366	Pass	0.86
LCS-W-011625	8/1/23	Cs-137	246 ± 11	235	188 - 282	Pass	1.05
LCS-W-011625	8/1/23	Co-57	542 ± 39	521	417 - 625	Pass	1.04
LCS-W-011625	8/1/23	Zn-65	527 ± 57	516	413 - 619	Pass	1.02
LCS-VE-012225A	8/1/24	Mn-54	104 ± 6	95.3	76.2 - 114	Pass	1.09
LCS-VE-012225A	8/1/24	Co-60	53.3 ± 3.7	54.3	43.4 - 65.2	Pass	0.98
LCS-VE-012225A	8/1/24	Cs-134	67.8 ± 3.5	78.0	62.4 - 93.6	Pass	0.87
LCS-VE-012225A	8/1/24	Cs-137	48.4 ± 3.3	51.6	41.3 - 61.9	Pass	0.94
LCS-VE-012225A	8/1/24	Zn-65	222 ± 13	247	198 - 296	Pass	0.90
LCS-VE-012225B	2/1/24	Co-57	72.3 ± 5.5	68.3	54.6 - 82.0	Pass	1.06
LCS-VE-012225B	2/1/24	Co-60	78.6 ± 3.5	79.9	63.9 - 95.9	Pass	0.98
LCS-VE-012225B	2/1/24	Cs-134	80.5 ± 3.8	99.1	79.3 - 119	Pass	0.81
LCS-VE-012225B	2/1/24	Cs-137	65.1 ± 3.3	69.4	55.5 - 83.3	Pass	0.94
LCS-VE-012225B	2/1/24	Zn-65	189 ± 17	217	174 - 260	Pass	0.87
LCS-W-012725A	4/8/24	Ba-133	64.9 ± 4.8	65.9	52.7 - 79.1	Pass	0.98
LCS-W-012725A	4/8/24	Cs-134	56.6 ± 4.7	57.8	46.2 - 69.4	Pass	0.98
LCS-W-012725A	4/8/24	Cs-137	195 ± 8	186	149 - 223	Pass	1.05
LCS-W-012725A	4/8/24	Co-60	104.5 ± 4.8	98.8	79.0 - 119	Pass	1.06
LCS-W-012725A	4/8/24	Zn-65	273 ± 42	240	192 - 288	Pass	1.14
LCS-W-012725B	4/8/24	Ba-133	61.7 7.1	65.9	52.7 - 79.1	Pass	0.94
LCS-W-012725B	4/8/24	Cs-134	49.6 6.4	57.8	46.2 - 69.4	Pass	0.86
LCS-W-012725B	4/8/24	Cs-137	189 ± 11	186	149 - 223	Pass	1.02
LCS-W-012725B	4/8/24	Co-60	98.3 7.1	98.8	79.0 - 119	Pass	0.99
LCS-W-012725B	4/8/24	Zn-65	213 ± 32	240	192 - 288	Pass	0.89
LCS-AP-012925	8/1/24	Co-60	10.6 ± 1.5	9.75	7.80 - 11.7	Pass	1.09
LCS-AP-012925	8/1/24	Cs-134	7.45 ± 0.84	9.02	7.22 - 10.8	Pass	0.83
LCS-AP-012925	8/1/24	Cs-137	7.75 ± 1.24	7.26	5.81 - 8.71	Pass	1.07

[a] Liquid sample results are reported in pCi/Liter, air filters (pCi/m3), charcoal (pCi/charcoal canister), and solid samples (pCi/kg).
[b] Laboratory codes : W & SPW (Water), MI (milk), AP (air filter), SO (soil), VE (vegetation), CH (charcoal canister), F (fish), U (urine).
[c] Results are based on single determinations.
[d] Acceptance criteria are listed in Attachment A of this report.

TABLE A-3. Intralaboratory "Spiked" Samples

Lab Code[b]	Reference Date	Analysis	Concentration[a] Laboratory results 2s, n=1[c]	Known Activity	Control Limits[d]	Acceptance	Ratio Lab/Known
LCS-SO-012925A	10/14/24	K-40	16,200 ± 473	14,175	11,340 - 17,010	Pass	1.14
LCS-SO-012925A	10/14/24	Mn-54	3,100 ± 73	3,051	2,441 - 3,661	Pass	1.02
LCS-SO-012925A	10/14/24	Co-57	8,490 ± 718	8,910	7,128 - 10,692	Pass	0.95
LCS-SO-012925A	10/14/24	Co-60	17,800 ± 95	18,900	15,120 - 22,680	Pass	0.94
LCS-SO-012925A	10/14/24	Cs-134	9,920 ± 83	11,259	9,007 - 13,511	Pass	0.88
LCS-SO-012925A	10/14/24	Cs-137	44,600 ± 182	44,550	35,640 - 53,460	Pass	1.00
LCS-SO-012925A	10/14/24	Zn-65	11,700 ± 216	11,205	8,964 - 13,446	Pass	1.04
LCS-SO-012925B	2/14/24	K-40	14,302 ± 1308	13,095	10,476 - 15,714	Pass	1.09
LCS-SO-012925B	2/14/24	Mn-54	9,368 ± 413	8,964	7,171 - 10,757	Pass	1.05
LCS-SO-012925B	2/14/24	Co-57	9,451 ± 213	10,827	8,662 - 12,992	Pass	0.87
LCS-SO-012925B	2/14/24	Co-60	17,653 ± 263	17,820	14,256 - 21,384	Pass	0.99
LCS-SO-012925B	2/14/24	Cs-134	8,989 ± 192	10,908	8,726 - 13,090	Pass	0.82
LCS-SO-012925B	2/14/24	Cs-137	42,415 ± 416	41,850	33,480 - 50,220	Pass	1.01
LCS-SO-012925B	2/14/24	Zn-65	18,205 ± 839	18,981	15,185 - 22,777	Pass	0.96
LCS-W-013025	8/1/24	Cs-134	545 ± 9	602	482 - 722	Pass	0.91
LCS-W-013025	8/1/24	Co-57	692 ± 12	713	570 - 856	Pass	0.97
LCS-W-013025	8/1/24	Fe-59	1,781 ± 170	1553	1,242 - 1864	Pass	1.15
LCS-W-013025	8/1/24	Co-60	390 ± 7	405	324 - 486	Pass	0.96
LCS-W-013025	8/1/24	Zn-65	652 ± 23	616	493 - 739	Pass	1.06
LCS-SO-021225	8/1/24	K-40	14,043 ± 1,654	14,175	11,340 - 17,010	Pass	0.99
LCS-SO-021225	8/1/24	Mn-54	3,144 ± 219	3,051	2,441 - 3,661	Pass	1.03
LCS-SO-021225	8/1/24	Co-57	8,547 ± 199	8,910	7,128 - 10,692	Pass	0.96
LCS-SO-021225	8/1/24	Co-60	18,084 ± 195	18,900	15,120 - 22,680	Pass	0.96
LCS-SO-021225	8/1/24	Cs-134	9,296 ± 161	11,259	9,007 - 13,511	Pass	0.83
LCS-SO-021225	8/1/24	Cs-137	44,134 ± 335	44,550	35,640 - 53,460	Pass	0.99
LCS-SO-021225	8/1/24	Zn-65	11,858 ± 450	11,205	8,964 - 13,446	Pass	1.06
LCS-VE-021225	8/1/25	Mn-54	98.5 ± 5	95.3	76.2 - 114	Pass	1.03
LCS-VE-021225	8/1/25	Co-60	58.3 ± 3	54.3	43.4 - 65.2	Pass	1.07
LCS-VE-021225	8/1/25	Cs-134	73.0 ± 3	78.0	62.4 - 93.6	Pass	0.94
LCS-VE-021225	8/1/25	Cs-137	56.1 ± 2	51.6	41.3 - 61.9	Pass	1.09
LCS-VE-021225	8/1/25	Zn-65	287 ± 13	247	198 - 296	Pass	1.16
LCS-SO-031225	8/1/24	K-40	15,335 ± 1276	14,175	11,340 - 17,010	Pass	1.08
LCS-SO-031225	8/1/24	Mn-54	3,335 ± 308	3,051	2,441 - 3,661	Pass	1.09
LCS-SO-031225	8/1/24	Co-57	7,901 ± 179	8,910	7,128 - 10,692	Pass	0.89
LCS-SO-031224	8/1/24	Co-60	18,579 ± 283	18,900	15,120 - 22,680	Pass	0.98
LCS-SO-031225	8/1/24	Cs-134	9,450 ± 257	11,259	9,007 - 13,511	Pass	0.84
LCS-SO-031225	8/1/24	Cs-137	44,894 ± 431	44,550	35,640 - 53,460	Pass	1.01
LCS-SO-031225	8/1/24	Zn-65	10,261 ± 627	11,205	8,964 - 13,446	Pass	0.92

[a] Liquid sample results are reported in pCi/Liter, air filters (pCi/m3), charcoal (pCi/charcoal canister), and solid samples (pCi/kg).
[b] Laboratory codes : W & SPW (Water), MI (milk), AP (air filter), SO (soil), VE (vegetation), CH (charcoal canister), F (fish), U (urine).
[c] Results are based on single determinations.
[d] Acceptance criteria are listed in Attachment A of this report.

TABLE A-3. Intralaboratory "Spiked" Samples

Lab Code[b]	Reference Date	Analysis	Concentration[a] Laboratory results 2s, n=1[c]	Known Activity	Control Limits[d]	Acceptance	Ratio Lab/Known
SPDW-60780	3/4/25	Gr. Alpha	36.2 ± 1.9	34.8	17.4 - 41.8	Pass	1.04
SPDW-60780	3/4/25	Gr. Beta	132 ± 2	137	109.9 - 164.9	Pass	0.96
SPDW-60815	3/21/25	H-3	21,670 ± 466	22,100	17,680 - 26,520	Pass	0.98
SPDW-60797	3/11/25	Th-230	63.2 ± 7.8	72.2	58 - 0,087	Pass	0.88
SPDW-60842	4/1/25	H-3	20,939 ± 460	22,100	17,680 - 26,520	Pass	0.95
SPDW-60860	4/8/25	H-3	20,388 ± 454	22,100	17,680 - 26,520	Pass	0.92
SPDW-60865	4/18/25	H-3	20,672 ± 457	22,100	17,680 - 26,520	Pass	0.94
SPDW-60869	4/13/25	Ra-228	6.30 ± 1.11	6.12	4.28 ± 7.96	Pass	1.03
SPDW-60880	5/7/25	H-3	21,535 ± 470	22,100	17,680 - 26,520	Pass	0.97
SPDW-60883	5/7/25	Sr-90	17.6 ± 1.1	15.4	12.3 - 18.5	Pass	1.14
LCS-W-05222025	1/13/25	Co-60	70.1 ± 6.2	66.8	53 - 0,080	Pass	1.05
LCS-W-05222025	1/13/25	Zn-65	80.3 ± 13.7	74.3	59 - 0,089	Pass	1.08
LCS-W-05222025	1/13/25	Ba-133	77.2 ± 6.8	89.7	72 - 0,108	Pass	0.86
LCS-W-05222025	1/13/25	Cs-134	35.5 ± 4.7	38.4	31 - 0,046	Pass	0.92
LCS-W-05222025	1/13/25	Cs-137	161 ± 10	157	126 - 0,188	Pass	1.03
LCS-SO-05222025	3/19/18	Cs-134	3,810 ± 280	4,210	3,368 - 5,052	Pass	0.90
LCS-SO-05222025	3/19/18	Cs-137	3,530 ± 87	4,210	3,368 - 5,052	Pass	0.84
LCS-SO-05222025	3/19/18	Pb-212	1,160 ± 62	1,240	992 - 1,488	Pass	0.94
LCS-SO-05222025	3/19/18	Pb-214	1,860 ± 77	1,850	1,480 - 2,220	Pass	1.01
LCS-SO-05222025	3/19/18	Ac-228	1,120 ± 360	1,240	992 - 1,488	Pass	0.90
LCS-W-052625	1/13/25	Zn-65	69.7 ± 8.6	74.3	59 - 89.2	Pass	0.94
LCS-W-052625	1/13/25	Ba-133	77.0 ± 4.4	89.7	72 - 108	Pass	0.86
LCS-W-052625	1/13/25	Cs-134	30.9 ± 2.8	38.4	30.7 - 46.1	Pass	0.80
LCS-W-052625	1/13/25	Cs-137	161 ± 6	157	126 - 188	Pass	1.03
LCS-W-052625	1/13/25	Co-60	70.6 ± 3.2	66.8	53.4 - 80.2	Pass	1.06
SPDW-60943	7/10/25	H-3	20,923 ± 461	22,100	17,680 - 26,520	Pass	0.95
SPDW-60946	7/18/25	H-3	20,730 ± 461	22,100	17,680 - 26,520	Pass	0.94
SPDW-60957	8/1/25	H-3	20,515 ± 460	22,100	17,680 - 26,520	Pass	0.93
SPDW-60976	8/19/25	H-3	19,131 ± 428	22,100	17,680 - 26,520	Pass	0.87
LCS-W-08/08/25	1/13/25	Ba-133	71.8 ± 4.7	89.7	71.8 - 107.6	Pass	0.80
LCS-W-08/08/25	1/13/25	Cs-134	35.7 ± 5.1	38.4	30.7 - 46.1	Pass	0.93
LCS-W-08/08/25	1/13/25	Cs-137	156 ± 7	157.0	125.6 - 188.4	Pass	0.99
LCS-W-08/08/25	1/13/25	Co-60	65.4 ± 3.7	67	53.4 - 80.2	Pass	0.98
LCS-W-08/08/25	1/13/25	Zn-65	70.7 ± 10.6	74.3	59.4 - 89.2	Pass	0.95
LCS-AP-0814/25	8/1/24	Cs-134	8.74 ± 1.57	9.03	7.22 - 10.8	Pass	0.97
LCS-AP-0814/25	8/1/24	Cs-137	6.32 ± 0.83	7.02	5.62 - 8.42	Pass	0.90
LCS-AP-0814/25	8/1/24	Co-60	8.97 ± 0.71	9.00	7.20 - 10.8	Pass	1.00
SPDW-5045	8/20/25	Sr-90	16.6 ± 1.1	15.4	12.3 - 18.5	Pass	1.08

[a] Liquid sample results are reported in pCi/Liter, air filters (pCi/filter), charcoal (pCi/charcoal canister), and solid samples (pCi/kg). vegetation (pCi/sample)

[b] Laboratory codes : W & SPW (Water), MI (milk), AP (air filter), SO (soil), VE (vegetation), CH (charcoal canister), F (fish), U (urine).

[c] Results are based on single determinations.

[d] Acceptance criteria are listed in Attachment A of this report.

TABLE A-3. Intralaboratory "Spiked" Samples

Lab Code[b]	Reference Date	Analysis	Concentration[a] Laboratory results 2s, n=1[c]	Known Activity	Control Limits[d]	Acceptance	Ratio Lab/Known
LCS-W-081325	1/13/25	Ba-133	84.7 ± 4.4	89.7	71.8 - 107.6	Pass	0.94
LCS-W-081325	1/13/25	Cs-134	34.8 ± 3.1	38.4	30.7 - 46.1	Pass	0.91
LCS-W-081325	1/13/25	Cs-137	151 ± 6	157	126 - 188	Pass	0.96
LCS-W-081325	1/13/25	Co-60	67.2 ± 4.1	66.8	53.4 - 80.2	Pass	1.01
LCS-W-081325	1/13/25	Zn-65	76.3 ± 10.6	74.3	59.4 - 89.2	Pass	1.03
SPDW-60989	9/2/25	H-3	19,720 ± 435	22,100	17,680 - 26,520	Pass	0.89
LCS-W-101725	10/17/25	H-3	6,776 ± 264	7,550	6,040 - 9,060	Pass	0.90
LCS-W-102325	10/23/25	H-3	7401 ± 285	7,550	6,040 - 9,060	Pass	0.98
LCS-W-103125	10/31/25	H-3	7,201 ± 273	7,550	6,040 - 9,060	Pass	0.95
LCS-AP-102925	9/22/25	Cs-134	293 ± 5	341	273 - 0,409	Pass	0.86
LCS-AP-102925	9/22/25	Cs-137	385 ± 6	379	303 - 0,455	Pass	1.02
LCS-AP-102925	9/22/25	Co-60	314 ± 4	322	258 - 0,386	Pass	0.98
LCS-AP-102925	9/22/25	Zn-65	207 ± 7	240	192 - 0,288	Pass	0.86
LCS-W-111025	8/1/25	Cs-134	189 ± 34	198	159 - 238	Pass	0.95
LCS-W-111025	8/1/25	Cs-137	172 ± 7	181	145 - 217	Pass	0.95
LCS-W-111025	8/1/25	Co-60	173 ± 5	196	157 - 235	Pass	0.88
LCS-W-111025	8/1/25	Mn-54	198 ± 8	215	172 - 258	Pass	0.92
LCS-W-111025	8/1/25	Zn-65	599 ± 18	624	499 - 749	Pass	0.96
LCS-W-121025	12/10/25	H-3	6,807 ± 265	7,550	6,040 - 9,060	Pass	0.90
LCS-W-121525	12/15/25	H-3	6,970 ± 269	7,550	6,040 - 9,060	Pass	0.92

[a] Liquid sample results are reported in pCi/Liter, air filters (pCi/filter), charcoal (pCi/charcoal canister), and solid samples (pCi/kg). vegetation (pCi/sample)

[b] Laboratory codes : W & SPW (Water), MI (milk), AP (air filter), SO (soil), VE (vegetation), CH (charcoal canister), F (fish), U (urine).

[c] Results are based on single determinations.

[d] Acceptance criteria are listed in Attachment A of this report.

TABLE A-4. Intralaboratory "Blank" Samples

Lab Code[b]	Sample Type	Collection Date	Analysis[c]	Concentration[a] Laboratory results (4.66σ) LLD	Activity[d]	Acceptance Criteria (4.66 σ)
SPDW-60669	Water	1/20/2025	Ra-228	0.76	0.22 ± 0.38	2
SPDW-60693	Water	2/4/2025	Sr-89	0.65	0.29 ± 0.56	5
SPDW-60693	Water	2/4/2025	Sr-90	0.64	0.18 ± 0.32	1
SPDW-60707	Water	2/5/2025	H-3	173	-10 ± 82	200
SPDW-60715	Water	2/11/2025	I-131	0.16	-0.06 ± 0.08	1
SPDW-60788	Water	3/10/2025	H-3	176	46 ± 90	200
SPDW-60788	Water	3/10/2025	H-3	176	46 ± 90	200
SPDW-60796	Water	3/11/2025	Th-228	1.20	-0.39 ± 0.57	2
SPDW-60796	Water	3/11/2025	Th-230	0.60	0.26 ± 0.51	2
SPDW-60796	Water	3/11/2025	Th-232	0.60	0.13 ± 0.44	2
SPDW-60814	Water	3/21/2025	H-3	177	6 ± 82	200
SPDW-60841	Water	4/1/2025	H-3	175	35 ± 89	200
SPDW-60868	Water	4/13/2025	Ra-228	0.63	-0.28 ± 0.25	2
SPDW-60868	Water	4/13/2025	Ra-228	0.63	-0.28 ± 0.25	2
SPDW-60875	Water	4/24/2025	I-131	0.20	0.02 ± 0.11	1
SPDW-60682	Water	5/7/2025	Sr-89	0.61	-0.36 ± 0.50	5
SPDW-60682	Water	5/7/2025	Sr-90	0.65	0.30 ± 0.34	1
SPDW-60864	Water	4/18/2025	H-3	173	105 ± 91	200
SPDW-60880	Water	5/7/2025	H-3	177	38 ± 90	200
SPDW-60942	Water	7/10/2025	H-3	175	-18 ± 81	200
SPDW-60945	Water	7/18/2025	H-3	177.36	-45.20 ± 85.32	200
SPDW-60956	Water	8/1/2025	H-3	185	-31 ± 90	200
SPDW-60956	Water	8/1/2025	H-3	163	24 ± 82	200
SPDW-5044	Water	8/20/2025	Sr-89	0.50	-0.02 ± 0.43	5
SPDW-5044	Water	8/20/2025	Sr-90	0.60	0.10 ± 0.29	1
SPDW-60983	Water	8/21/2025	I-131	0.16	-0.07 ± 0.08	1
SPDW-60975	Water	8/19/2025	H-3	166	38 ± 89	200
SPDW-60988	Water	9/2/2025	H-3	172	60 ± 86	200
MB-103125	Water	10/31/2025	H-3	173	-10 ± 85	200
MB-1013-BLK	Water	11/3/2025	Gr. Alpha	0.43	0.26 ± 0.48	1
MB-1041-BLK	Water	11/7/2025	Gr. Alpha	0.44	0.03 ± 0.48	1
MB-1041-BLK	Water	11/7/2025	Gr. Beta	0.55	-0.24 ± 0.60	1
MB-1042-BLK	Water	11/10/2025	Gr. Alpha	0.44	-0.30 ± 0.46	1

[a] Liquid sample results are reported in pCi/Liter, air filters (pCi/m^3), charcoal (pCi/charcoal canister), and solid samples (pCi/g).

[b] Laboratory codes : W & SPW (Water), MI (milk), AP (air filter), SO (soil), VE (vegetation), CH (charcoal canister), F (fish), U (urine).

[c] I-131(G); iodine-131 as analyzed by gamma spectroscopy.

[d] Activity reported is a net activity result.

TABLE A-4. Intralaboratory "Blank" Samples

Lab Code[b]	Sample Type	Collection Date	Analysis[c]	Concentration[a]		
				Laboratory results (4.66σ)		Acceptance
				LLD	Activity[d]	Criteria (4.66 σ)
MB-1091-BLK	Water	12/11/2025	Gr. Alpha	0.41	0.11 ± 0.45	1
MB-1091-BLK	Water	12/11/2025	Gr. Beta	0.51	-0.48 ± 0.54	1
MB-120825	Water	12/8/2025	I-131	0.25	0.15 ± 0.15	1
MB-121025	Water	12/10/2025	H-3	170	3 ± 79	200
MB-1098-BLK	Water	12/15/2025	Gr. Alpha	0.43	0.03 ± 0.47	1
MB-1098-BLK	Water	12/15/2025	Gr. Beta	0.55	-0.38 ± 0.58	1
MB-1116-BLK	Water	12/24/2025	Gr. Alpha	0.37	0.25 ± 0.42	1
MB-1116-BLK	Water	12/24/2025	Gr. Beta	0.48	0.20 ± 0.53	1
MB-1162-BLK	Water	12/30/2025	Gr. Alpha	0.94	0.25 ± 0.99	1
MB-1162-BLK	Water	12/30/2025	Gr. Beta	0.52	-0.01 ± 0.57	1

[a] Liquid sample results are reported in pCi/Liter, air filters (pCi/m^3), charcoal (pCi/charcoal canister), and solid samples (pCi/g).

[b] Laboratory codes : W & SPW (Water), MI (milk), AP (air filter), SO (soil), VE (vegetation), CH (charcoal canister), F (fish), U (urine).

[c] I-131(G); iodine-131 as analyzed by gamma spectroscopy.

[d] Activity reported is a net activity result.

TABLE A-5. Intralaboratory "Duplicate" Samples

			Concentration[a]				
Lab Code[b]	Collection Date	Analysis	First Result	Second Result	Averaged Result	RPD	Acceptance
AP-3356,3357	1/1/2025	Be-7	0.043 ± 0.004	0.037 ± 0.006	0.040 ± 0.004	15.4	Pass
AP-3377,3378	1/1/2025	Be-7	0.057 ± 0.009	0.055 ± 0.011	0.056 ± 0.007	4.7	Pass
U-3398,3399	1/2/2025	Beta (-K40)	6.93 ± 1.82	4.76 ± 1.79	5.84 ± 1.28	37.2	Pass [c]
AP-011325A,B	1/13/2025	Gr. Beta	0.023 ± 0.005	0.024 ± 0.005	0.024 ± 0.004	4.3	Pass
AP-020325A,B	2/3/2025	Gr. Beta	0.022 ± 0.004	0.018 ± 0.004	0.020 ± 0.003	20.0	Pass
AP-021725A,B	2/17/2025	Gr. Beta	0.035 ± 0.005	0.036 ± 0.005	0.036 ± 0.004	2.8	Pass
XW-3596,3597	2/20/2025	H-3	270 ± 101	325 ± 104	298 ± 72	18.5	Pass
SG-3588,3589	2/26/2025	Gr. Alpha	37.6 ± 3.9	24.7 ± 3.2	31.2 ± 2.5	41.4	Pass [d]
SG-3588,3589	2/26/2025	Gr. Beta	31.5 ± 1.8	30.1 ± 1.8	30.8 ± 1.3	4.5	Pass
SG-3588,3589	2/26/2025	Ra-226	7.38 ± 0.46	6.63 ± 0.27	7.01 ± 0.27	10.7	Pass
SG-3588,3589	2/26/2025	Ra-228	8.50 ± 0.46	7.60 ± 0.86	8.05 ± 0.49	11.2	Pass
WW-3724,3725	3/12/2025	H-3	199 ± 93	194 ± 93	197 ± 66	2.5	Pass
AP-031725A,B	3/17/2025	Gr. Beta	0.024 ± 0.005	0.030 ± 0.005	0.027 ± 0.004	22.2	Pass
SW-3770,3771	3/19/2025	H-3	13,111 ± 367	12,865 ± 363	12,988 ± 258	1.9	Pass
W-3814,3815	3/26/2025	H-3	159 ± 95	137 ± 94	148 ± 67	14.9	Pass
AP-040725A,B	4/7/2025	Gr. Beta	0.016 ± 0.004	0.018 ± 0.004	0.017 ± 0.003	11.8	Pass
SW-3770,3771	3/19/2025	H-3	13,111 ± 367	12,865 ± 363	12,988 ± 258	1.9	Pass
E-3814,3815	3/26/2025	H-3	159 ± 95	137 ± 94	148 ± 67	14.9	Pass
S-O5E0076-01,02	5/13/2025	Gr. Alpha	33.28 ± 3.39	29.62 ± 3.66	31.45 ± 4.99	11.6	Pass
S-O5E0076-01,02	5/13/2025	Gr. Beta	28.38 ± 1.82	28.50 ± 1.81	28.44 ± 2.57	0.4	Pass
S-O5E0076-01,02	5/13/2025	Ra-226	4.42 ± 0.12	4.13 ± 0.11	4.28 ± 0.16	6.8	Pass
S-O5E0076-01,02	5/13/2025	Ra-228	5.08 ± 0.18	4.31 ± 0.20	4.70 ± 0.27	16.4	Pass
LW-4571,4752	6/17/2025	H-3	104 ± 90	52 ± 87	78 ± 62	66.7	Pass [e]
AP-4734,4735	7/1/2025	Be-7	0.070 ± 0.008	0.078 ± 0.008	0.074 ± 0.006	11.0	Pass
VE-4614,4615	7/1/2025	K-40	3.56 ± 0.45	3.60 ± 0.31	3.58 ± 0.27	1.2	Pass
AP-062525A,B	6/25/2025	Gr. Beta	0.022 ± 0.003	0.022 ± 0.003	0.022 ± 0.004	2.7	Pass
AP-06/26/25A,B	6/26/2025	Gr. Beta	0.020 ± 0.004	0.022 ± 0.004	0.021 ± 0.005	10.7	Pass
AP-06/30/25A,B	6/30/2025	Gr. Beta	0.018 ± 0.004	0.020 ± 0.004	0.019 ± 0.006	10.7	Pass
AP-070125A,B	7/1/2025	Gr. Beta	0.023 ± 0.002	0.023 ± 0.002	0.023 ± 0.003	0.8	Pass
AP-070225A,B	7/2/2025	Gr. Beta	0.014 ± 0.002	0.012 ± 0.002	0.013 ± 0.003	17.4	Pass
AP-070325A,B	7/3/2025	Gr. Beta	0.024 ± 0.002	0.023 ± 0.002	0.023 ± 0.003	4.5	Pass
AP-070825A,B	7/8/2025	Gr. Beta	0.021 ± 0.003	0.022 ± 0.003	0.021 ± 0.004	1.5	Pass
AP-070925A,B	7/9/2025	Gr. Beta	0.017 ± 0.003	0.017 ± 0.003	0.017 ± 0.005	2.5	Pass
AP-071425A,B	7/14/2025	Gr. Beta	0.019 ± 0.004	0.022 ± 0.004	0.020 ± 0.006	11.4	Pass
AP-071525A,B	7/15/2025	Gr. Beta	0.027 ± 0.003	0.027 ± 0.003	0.027 ± 0.004	0.0	Pass
AP-071625A,B	7/16/2025	Gr. Beta	0.028 ± 0.003	0.030 ± 0.003	0.029 ± 0.005	7.6	Pass
AP-072125A,B	7/21/2025	Gr. Beta	0.021 ± 0.005	0.016 ± 0.004	0.018 ± 0.006	22.9	Pass
AP-072225A,B	7/22/2025	Gr. Beta	0.020 ± 0.002	0.016 ± 0.002	0.018 ± 0.003	20.6	Pass
AP-072325A,B	7/23/2025	Gr. Beta	0.019 ± 0.002	0.017 ± 0.002	0.018 ± 0.003	9.5	Pass

TABLE A-5. Intralaboratory "Duplicate" Samples

			Concentration[a]				
Lab Code[b]	Collection Date	Analysis	First Result	Second Result	Averaged Result	RPD	Acceptance
AP-0724/25A,B	7/24/2025	Gr. Beta	0.018 ± 0.002	0.018 ± 0.002	0.018 ± 0.003	0.6	Pass
AP-072525A,B	7/28/2025	Gr. Beta	0.024 ± 0.003	0.024 ± 0.003	0.024 ± 0.004	1.2	Pass
AP-072925A,B	7/29/2025	Gr. Beta	0.020 ± 0.002	0.019 ± 0.002	0.019 ± 0.003	5.2	Pass
AP-073025A,B	7/30/2025	Gr. Beta	0.024 ± 0.023	0.023 ± 0.004	0.023 ± 0.023	5.5	Pass
AP-073125A,B	7/31/2025	Gr. Beta	0.017 ± 0.002	0.016 ± 0.002	0.017 ± 0.003	3.4	Pass
AP-080425A,B	8/4/2025	Gr. Beta	0.019 ± 0.003	0.019 ± 0.003	0.019 ± 0.004	1.2	Pass
MI-4986,4987	8/4/2025	K-40	1204 ± 121	1078 ± 107	1141 ± 162	11.0	Pass
AP-080525A,B	8/5/2025	Gr. Beta	0.023 ± 0.002	0.022 ± 0.002	0.023 ± 0.003	6.6	Pass
AP-080625A,B	8/6/2025	Gr. Beta	0.018 ± 0.003	0.020 ± 0.003	0.019 ± 0.004	9.3	Pass
AP-081125A,B	8/11/2025	Gr. Beta	0.028 ± 0.005	0.028 ± 0.005	0.028 ± 0.007	0.3	Pass
AP-081225A,B	8/12/2025	Gr. Beta	0.036 ± 0.003	0.036 ± 0.003	0.036 ± 0.004	0.9	Pass
S-O5H0065-03,04	8/13/2025	Gr. Alpha	33.52 ± 4.14	26.32 ± 3.75	29.92 ± 5.59	24.1	Pass [d]
S-O5H0065-03,04	8/13/2025	Gr. Beta	34.38 ± 2.15	30.92 ± 1.56	32.65 ± 2.66	10.6	Pass
S-O5H0065-03,04	8/13/2025	Ra-226	7.22 ± 0.32	7.05 ± 0.31	7.14 ± 0.44	2.4	Pass
S-O5H0065-03,04	8/13/2025	Ra-228	7.04 ± 0.56	7.45 ± 0.58	7.25 ± 0.80	5.7	Pass
AP-081425A,B	8/14/2025	Gr. Beta	0.031 ± 0.003	0.032 ± 0.003	0.032 ± 0.004	4.2	Pass
AP-081825A,B	8/18/2025	Gr. Beta	0.026 ± 0.003	0.026 ± 0.003	0.026 ± 0.005	2.1	Pass
AP-081925A,B	8/19/2025	Gr. Beta	0.025 ± 0.002	0.029 ± 0.003	0.027 0.004	13.4	Pass
AP-082025A,B	8/20/2025	Gr. Beta	0.024 ± 0.003	0.021 ± 0.003	0.022 ± 0.004	13.0	Pass
AP-082625A,B	8/26/2025	Gr. Beta	0.022 ± 0.004	0.021 ± 0.004	0.022 ± 0.006	3.8	Pass
AP-090225A,B	9/2/2025	Gr. Beta	0.017 ± 0.004	0.017 ± 0.004	0.017 ± 0.006	1.7	Pass
AP-090325A,B	9/3/2025	Gr. Beta	0.022 ± 0.028	0.023 ± 0.003	0.023 ± 0.029	3.8	Pass
MI-5183,5184	9/9/2025	K-40	1318 ± 108	1291 ± 99	1305 ± 147	2.1	Pass
AP-090925A,B	9/9/2025	Gr. Beta	0.019 ± 0.002	0.020 ± 0.002	0.019 ± 0.003	8.1	Pass
AP-091025A,B	9/10/2025	Gr. Beta	0.016 ± 0.003	0.016 ± 0.003	0.016 ± 0.004	0.4	Pass
AP-091525A,B	9/15/2025	Gr. Beta	0.036 ± 0.004	0.034 ± 0.004	0.035 ± 0.005	4.2	Pass
AP-091625A,B	9/16/2025	Gr. Beta	0.053 ± 0.003	0.057 ± 0.003	0.055 ± 0.005	6.2	Pass
AP-091725A,B	9/17/2025	Gr. Beta	0.055 ± 0.005	0.050 ± 0.005	0.053 ± 0.007	8.7	Pass
AP-091825A,B	9/18/2025	Gr. Beta	0.062 ± 0.004	0.067 ± 0.004	0.065 ± 0.005	6.8	Pass
AP-092325A,B	9/23/2025	Gr. Beta	0.050 ± 0.003	0.052 ± 0.003	0.051 ± 0.005	4.8	Pass
AP-092425A,B	9/24/2025	Gr. Beta	0.037 ± 0.004	0.040 ± 0.004	0.038 ± 0.006	8.9	Pass
AP-093025A,B	9/30/2025	Gr. Beta	0.040 ± 0.004	0.042 ± 0.004	0.041 ± 0.005	5.5	Pass
AP-100625A,B	10/6/2025	Gr. Beta	0.056 ± 0.003	0.053 ± 0.005	0.055 ± 0.006	5.4	Pass
AP-100725A,B	10/7/2025	Gr. Beta	0.047 ± 0.003	0.043 ± 0.003	0.045 ± 0.004	8.2	Pass
AP-100825A,B	10/8/2025	Gr. Beta	0.061 ± 0.004	0.058 ± 0.038	0.059 ± 0.039	4.9	Pass
AP-101325A,B	10/13/2025	Gr. Beta	0.028 ± 0.005	0.034 ± 0.005	0.031 ± 0.007	20.1	Pass
AP-101425A,B	10/14/2025	Gr. Beta	0.021 ± 0.002	0.019 ± 0.002	0.020 ± 0.003	13.1	Pass
AP-101525A,B	10/15/2025	Gr. Beta	0.025 ± 0.004	0.023 ± 0.004	0.024 ± 0.005	9.2	Pass
AP-102125A,B	10/21/2025	Gr. Beta	0.022 ± 0.002	0.022 ± 0.002	0.022 ± 0.003	1.0	Pass
AP-102225A,B	10/22/2025	Gr. Beta	0.031 ± 0.003	0.030 ± 0.003	0.031 ± 0.004	5.0	Pass

TABLE A-5. Intralaboratory "Duplicate" Samples

			Concentration[a]				
Lab Code[b]	Collection Date	Analysis	First Result	Second Result	Averaged Result	RPD	Acceptance
AP-102825A,B	10/28/2025	Gr. Beta	0.013 ± 0.002	0.014 ± 0.002	0.014 ± 0.003	6.5	Pass
AP-102925A,B	10/29/2025	Gr, Beta	0.011 ± 0.002	0.011 ± 0.002	0.011 ± 0.004	1.6	Pass
AP-110325A.B	11/3/2025	Gr. Beta	0.019 ± 0.003	0.016 ± 0.003	0.018 ± 0.004	13.6	Pass
SG-O5K0028-03,04	11/5/2025	Gr. Alpha	55.64 ± 5.73	50.63 ± 5.82	53.14 ± 8.17	9.4	Pass
SG-O5K0028-03,04	11/5/2025	Gr. Beta	52.76 ± 2.76	53.15 ± 2.93	52.96 ± 4.03	0.7	Pass
SG-O5K0028-03,04	11/5/2025	Ra-226	11.3 ± 0.4	12.2 ± 0.3	11.8 ± 0.5	7.7	Pass
SG-O5K0028-03,04	11/5/2025	Ra-228	10.9 ± 0.6	11.3 ± 0.5	11.1 ± 0.8	3.6	Pass
AP-110525A.B	11/5/2025	Gr. Beta	0.024 ± 0.003	0.024 ± 0.003	0.024 ± 0.004	0.8	Pass
AP-110625A,B	11/6/2025	Gr. Beta	0.028 ± 0.003	0.027 ± 0.002	0.027 ± 0.004	5.8	Pass
AP-111025A,B	11/10/2025	Gr. Beta	0.022 ± 0.003	0.023 ± 0.003	0.023 ± 0.004	7.1	Pass
AP-111225A,B	11/12/2025	Gr. Beta	0.017 ± 0.002	0.017 ± 0.002	0.017 ± 0.003	0.2	Pass
AP-111425A,B	11/14/2025	Gr. Beta	0.018 ± 0.002	0.021 ± 0.002	0.020 ± 0.003	11.5	Pass
AP-111725A,B	11/17/2025	Gr. Beta	0.027 ± 0.005	0.028 ± 0.005	0.027 ± 0.007	7.1	Pass
AP-111825A,B	11/18/2025	Gr. Beta	0.027 ± 0.002	0.023 ± 0.002	0.025 ± 0.003	16.4	Pass
AP-111925A,B	11/19/2025	Gr. Beta	0.031 ± 0.004	0.032 ± 0.004	0.032 ± 0.006	0.5	Pass
AP-112025A,B	11/20/2025	Gr. Beta	0.023 ± 0.002	0.024 ± 0.002	0.024 ± 0.003	4.6	Pass
AP-112525A,B	11/25/2025	Gr. Beta	0.026 ± 0.003	0.026 ± 0.003	0.026 ± 0.004	0.2	Pass
AP-112625A,B	11/26/2025	Gr. Beta	0.045 ± 0.005	0.047 ± 0.005	0.046 ± 0.007	4.0	Pass
AP-120125A,B	12/1/2025	Gr. Beta	0.018 ± 0.003	0.020 ± 0.003	0.019 ± 0.004	9.2	Pass
AP-120325A,B	12/3/2025	Gr. Beta	0.025 ± 0.003	0.027 ± 0.003	0.026 ± 0.004	7.6	Pass
AP-120425A,B	12/4/2025	Gr. Beta	0.018 ± 0.001	0.018 ± 0.003	0.018 ± 0.003	3.2	Pass
AP-120825A,B	12/8/2025	Gr. Beta	0.019 ± 0.003	0.018 ± 0.003	0.018 ± 0.004	4.1	Pass
AP-121025A,B	12/10/2025	Gr. Beta	0.035 ± 0.003	0.032 ± 0.003	0.033 ± 0.005	7.7	Pass
AP-121125A,B	12/11/2025	Gr. Beta	0.026 ± 0.004	0.026 ± 0.004	0.026 ± 0.006	1.0	Pass
AP-121525A,B	12/15/2025	Gr. Beta	0.032 ± 0.005	0.031 ± 0.005	0.032 ± 0.007	2.4	Pass
AP-121625A,B	12/16/2025	Gr. Beta	0.023 ± 0.002	0.025 ± 0.002	0.024 ± 0.003	5.5	Pass
AP-121725A,B	12/17/2025	Gr. Beta	0.025 ± 0.003	0.022 ± 0.003	0.024 ± 0.004	12.7	Pass
AP-122225A,B	12/22/2025	Gr. Beta	0.035 ± 0.004	0.035 ± 0.004	0.035 ± 0.006	1.5	Pass
AP-122325A,B	12/23/2025	Gr. Beta	0.026 ± 0.004	0.030 ± 0.004	0.028 ± 0.006	17.1	Pass
AP-122925A,B	12/29/2025	Gr. Beta	0.035 ± 0.005	0.031 ± 0.048	0.033 ± 0.048	12.5	Pass
AP-123025A,B	12/30/2025	Gr. Beta	0.029 ± 0.002	0.028 ± 0.002	0.028 ± 0.003	4.4	Pass

Note: Duplicate analyses are performed on every twentieth sample received. Results are not listed for those analyses with activities that measure below the LLD.

[a] Results are reported in units of pCi/L, except for air filters (pCi/Filter or pCi/m3), food products, vegetation, soil and sediment (pCi/g).

[b] AP (Air Particulate), AV (Aquatic Vegetation), BS (Bottom Sediment), CF (Cattle Feed), CH (Charcoal Canister), DW (Drinking Water), E (Egg), F (Fish), G (Grass), LW (Lake Water), MI (Milk), P (Precipitation), PM (Powdered Milk), S (Solid), SG (Sludge), SO (Soil), SS (Shoreline Sediment), SW (Surface Water), SWT (Surface Water Treated), SWU (Surface Water Untreated), U (Urine), VE (Vegetation), W (Water), WW (Well Water).

[c] High solids in duplicate urine samples caused inhomogeneity of sample aliquots resulting in higher Relative Percent Difference (37.2%).

[d] Matrix inhomogeneity in sludge and solid samples caused higher relative percent difference in duplicate results.

[e] High Relative Percent Difference value (66.7%) caused by activity concentrations below the MDC's.

TABLE A-6. Department of Energy's Mixed Analyte Performance Evaluation Program (MAPEP).

			Concentration[a]			
Lab Code [b]	Reference Date	Analysis	Laboratory result	Known Activity	Acceptance Range [c]	Acceptance
MADW-3678	2/1/2025	Cs-134	-0.023 ± 0.098	0	NA [c]	Pass
MADW-3678	2/1/2025	Cs-137	7.3 ± 0.4	6.9	4.8 - 9.0	Pass
MADW-3678	2/1/2025	Co-57	30.9 ± 0.4	32.1	21.6 - 40.2	Pass
MADW-3678	2/1/2025	Co-60	0.31 ± 0.07	0	NA [c]	Pass
MADW-3678	2/1/2025	Mn-54	0.02 ± 0.07	0	NA [c]	Pass
MADW-3678	2/1/2025	Zn-65	26.3 ± 0.8	26.7	18.7 - 34.7	Pass
MADW-3678	2/1/2025	K-40	32.4 ± 2.3	30.3	21.2 - 39.4	Pass
MAAP-3670	2/1/2025	Cs-134	0.34 ± 0.07	0.340	0.238 - 0.442	Pass
MAAP-3670	2/1/2025	Cs-137	0.76 ± 0.12	0.678	0.475 - 0.881	Pass
MAAP-3670	2/1/2025	Co-57	0.74 ± 0.10	0	NA [c, d]	Fail
MAAP-3670	2/1/2025	Co-60	0.48 ± 0.10	0.486	0.340 - 0.632	Pass
MAAP-3670	2/1/2025	Mn-54	0.002 ± 0.041	0	NA [c]	Pass
MAAP-3670	2/1/2025	Zn-65	-0.16 ± 0.16	0	NA [c]	Pass
MAW-05I0013-01	8/1/2025	Gross Alpha	0.78 ± 0.06	0.96	0.29 - 1.63	Pass
MAW-05I0013-01	8/1/2025	Gross Beta	1.76 ± 0.05	1.90	0.95 - 2.85	Pass
MAW-O5I0013-02	8/1/2025	Cs-134	5.50 ± 0.16	7.34	5.14 - 9.54	Pass
MAW-O5I0013-02	8/1/2025	Cs-137	6.51 ± 0.24	6.70	4.7 - 8.7	Pass
MAW-O5I0013-02	8/1/2025	Co-57	0.003 ± 0.066	0	NA [c]	Pass
MAW-O5I0013-02	8/1/2025	Co-60	6.81 ± 0.16	7.24	NA [c]	Pass
MAW-O5I0013-02	8/1/2025	Mn-54	7.39 ± 0.24	7.95	5.57 - 10.34	Pass
MAW-O5I0013-02	8/1/2025	Zn-65	21.3 ± 0.5	23.1	16.2 - 30.0	Pass
MAW-O5I0013-02	8/1/2025	K-40	8.11 ± 0.93	0	NA [c]	Fail [e]
MAW-O5I0013-02	8/1/2025	Ni-63	14.0 ± 2.0	25.0	17.0 - 32.5	Fail [f]
MAW-O5I0013-02	8/1/2025	H-3	240 ± 10	276	193 - 359	Pass
MASO-O5I0013-04	8/1/2025	Cs-134	491 ± 8	613	429 - 797	Pass
MASO-O5I0013-04	8/1/2025	Cs-137	721 ± 11	686	480 - 892	Pass
MASO-O5I0013-04	8/1/2025	Co-57	1.23 ± 17.83	0	NA [c]	Pass
MASO-O5I0013-04	8/1/2025	Co-60	1136 ± 10	1144	801 - 1487	Pass
MASO-O5I0013-04	8/1/2025	Mn-54	846 ± 13	771	540 - 1002	Pass
MASO-O5I0013-04	8/1/2025	Zn-65	0.12 ± 6.20	0	NA [c]	Pass
MASO-O5I0013-04	8/1/2025	K-40	580 ± 39	492	344 - 640	Pass

TABLE A-6. Department of Energy's Mixed Analyte Performance Evaluation Program (MAPEP).

			Concentration[a]			
Lab Code [b]	Reference Date	Analysis	Laboratory result	Known Activity	Acceptance Range [c]	Acceptance
MAAP-O5I0013-05	8/1/2025	Gross Alpha	1.34 ± 0.08	1.24	0.37 - 2.11	Pass
MAAP-O5I0013-05	8/1/2025	Gross Beta	1.62 ± 0.05	1.75	0.88 - 2.63	Pass
MAVE-O5I0013-06	8/1/2025	Cs-134	-0.01 ± 0.04	0	NA [c]	Pass
MAVE-O5I0013-06	8/1/2025	Cs-137	0.63 ± 0.09	0.986	0.690 - 1.282	Fail [g]
MAVE-O5I0013-06	8/1/2025	Co-57	3.04 ± 0.12	4.47	3.13 - 5.81	Fail [g]
MAVE-O5I0013-06	8/1/2025	Co-60	1.49 ± 0.11	2.30	1.61 - 2.99	Fail [g]
MAVE-O5I0013-06	8/1/2025	Mn-54	2.13 ± 0.15	3.10	2.17 - 4.03	Fail [g]
MAVE-O5I0013-06	8/1/2025	Zn-65	5.88 ± 0.38	9.29	6.50 - 12.08	Fail [g]

[a] Results are reported in units of Bq/kg (soil), Bq/L (water) or Bq/total sample (filters, vegetation).

[b] Laboratory codes as follows: MAW (water), MADW (water), MAAP (air filter), MASO (soil) and MAVE (vegetation).

[c] MAPEP results are presented as the known values and expected laboratory precision (1 sigma, 1 determination) and control limits as defined by the MAPEP. A known value of "zero" indicates an analysis was included in the testing series as a "false positive". MAPEP does not provide an acceptance range.

[d] The false positive is believed to be due to interference from U-234 which has a gamma energy very close to Co-57 and for which the MAPEP study report confirmed to be present in the sample.

[e] False positive detections could have occurred due to a combination of an inadequate background subtraction for this sample geometry compounded by a very long analysis time.

[f] Failure is likely due to inadequate quench correction. Using the "Channels Ratio" quench correction method the lab result would have been 24.9 Bq/L which would have passed the study acceptance criteria.

[g] This sample aliquot weight was very low. It is believed that due to the low weight that the container may not have rested squarely on the detector resulting in lower results for all analytes. Reanalysis of this sample resulted in passing results for all analytes.

TABLE A-7. Interlaboratory Comparison Crosscheck Program, Environmental Resource Associates (ERA)[a].

MRAD-40 Study (Air Filter)

Lab Code	Date	Analysis	Concentration [a] Laboratory Result	ERA Value [b]	Acceptance Limits [c]	Acceptance
O5K0086-02	9/22/2025	Cs-134	302 ± 4	341	221 - 418	Pass
O5K0086-02	9/22/2025	Cs-137	437 ± 4	379	311 - 497	Pass
O5K0086-02	9/22/2025	Co-60	345 ± 4	322	274 - 409	Pass
O5K0086-02	9/22/2025	Mn-54	< 1.80	< 35.0	0.00 - 35.0	Pass
O5K0086-02	9/22/2025	Zn-65	240 ± 7	193	158.0 - 295	Pass
O5K0086-02	9/22/2025	U-234	66.2 ± 2.1	63.4	47.0 - 74.3	Pass
O5K0086-02	9/22/2025	U-238	66.8 ± 2.2	62.9	47.5 - 75.0	Pass
O5K0086-02	9/22/2025	Uranium-Total	136 ± 3.1	129	94.2 - 153	Pass
O5K0086-01	9/22/2025	Gross Alpha	22.4 ± 1.4	22.0	11.5 - 36.2	Pass
O5K0086-01	9/22/2025	Gross Beta	25.1 ± 1.7	40.5	24.6 - 61.2	Pass

[a] Results obtained by Microbac Laboratories - Northbrook as a participant in the crosscheck program for proficiency testing administered by Environmental Resource Associates, serving as a replacement for studies conducted previously by the Environmental Measurements Laboratory Quality Assessment Program (EML).

[b] The ERA Assigned values for the air filter standards are equal to 100% of the parameter present in the standard as determined by the gravimetric and/or volumetric measurements made during standard preparation as applicable.

[c] The acceptance limits are established per ERA's SOP for the Generation of Acceptance Limits™ as applicable.

Appendix B

Summary Tables in the format of NRC Radiological Assessment Branch Technical Position
Revision 1, November 1979

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY

Name of Facility: Wolf Creek Generating Station Docket No.: 50-482

Location of Facility: Coffey County, Kansas Reporting Period: Annual 2025

Medium of Pathway Sampled (Unit of Measurement)	Analysis and Total Number of Analysis Performed	ODCM Lower Limit of Detection (LLD)	All Indicator Locations ** Mean (f) ** Range	Indicator Location with Highest Annual Mean Name Distance and Direction	 ** Mean (f) ** Range	Control Locations ** Mean (f) ** Range	Number of Nonroutine Reported Measurements **
Air Particulate (pCi/m^3)	Gross Beta (305)	0.01	0.025 (254/254) (0.009 - 0.058)	49 0.8 miles NNE	0.026, (51/51) (0.010 - 0.055)	Station 53 0.025 (51/51) (0.008 - 0.058)	0
Air Radioiodine (pCi/m^3)	Gamma (24) Be-7	-	0.073 (20/20) (0.055 - 0.101)	18,32 3.0 miles SSE 3.1 miles WNW	0.075 (8/8) (0.055 – 0101)	0.068 (4/4) (0.056 – 0.084)	0
	I-131 (313)	0.07	- (0/260)	N/A	N/A	Station 53 - (0/53)	0
Direct Radiation Dosimeters (mR per std. 90-day Qtr.)	Gamma Dose (172)	-	19.9 (168/168) (19.0 – 22.2)	38,54 1.2 miles NW 0.18 miles S	20.2 (8/8) (18.8 – 22.2)	Stations 39 & 53 19.9 (8/8) (19.0 – 21.5)	0
Surface Water (pCi/l)	Gamma (24)		- (0/12)	N/A	N/A	JRR - (0/12)	0
	Tritium (24)	30,000	12,949 (12/12) (11,324 - 14,149)	SP 3.2 miles SSE	12,949 (12/12) (11,324 - 14,149)	-(0/12)	0
	Fe-55 (4)	-	- (0/4)	N/A	N/A	- (0/4)	0
Ground Water (pCi/l)	I-131 (32)	1	- (0/28)	N/A	N/A	B-12 - (0/4)	0
	Gamma (32)		- (0/28)	N/A	N/A	- (0/4)	0
	Tritium (32)	20,000	- (0/28)	N/A	N/A	- (0/4)	0

** Mean and range based upon detectable measurements only. Fraction of detectable measurements at specified locations is indicated in parentheses (f)

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Drinking Water (pCi/l)	I-131 (24)	1	- (0/12)	N/A	N/A	BW-15 - (0/12)	0
	Gross Beta (24)	4	2.4 (12/12) (2.4 – 3.0)	IO-DW 26.1 miles SSE	2.4 (12/12) (2.4 – 3.0)	2.3 (12/12) (1.0 – 3.5)	0
	Gamma (24)		- (0/12)	N/A	N/A	- (0/12)	0
	Tritium (8)	2,000	(0/4)	N/A	- (0/4)	- (0/4)	0
Shoreline Sediment (pCi/kg dry)	Gamma (6)					JRR	
	K-40	-	9,624 (4/4) (6,369 – 12,300)	EEA 3.0 miles NNW	12,300 (1/1) (12,300 -12,300)	8,946 (2/2) (8,300 –9,591)	0
	Cs-137	-	(0-7)	N/A	N/A	(0-2)	0
Fish – Flesh (pCi/kg wet)	Gamma (20)					JRR	
	K-40	-	3,358 (10/10) (2,860 – 3,950)	CCL 0.6 miles E to NNW	3,358 (10/10) (2,860 – 3,950)	3,697(10/10) (2,936- 4,402)	0
	Tritium (20)	-	8,764 (10/10) (7,151 – 9,924)	CCL 0.6 miles E to NNW	8,764 (10/10) (7,151 – 9,924)	- (0/11)	0

** Mean and range based upon detectable measurements only. Fraction of detectable measurements at specified locations is indicated in parentheses (f)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY

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Location of Facility: Coffey County, Kansas Reporting Period: Annual 2025

Medium of Pathway Sampled (Unit of Measurement)	Analysis and Total Number of Analysis Performed	ODCM Lower Limit of Detection (LLD)	All Indicator Locations ** Mean (f) ** Range	Indicator Location with Highest Annual Mean Name Distance and Direction	** Mean (f) ** Range	Control Locations ** Mean (f) ** Range	Number of Nonroutine Reported Measurements **
Food and Garden (pCi/kg wet)	Gamma (21)					D-2	
	Be-7	-	2,037 (17/17) (562 – 9,283)	R-2 1.9 miles NNW	3,922(4/4) (1,553 – 9,283)	1,240 (4/4) (883 – 1,620)	0
	K-40	-	6,276(17/17) (3,136-15,990)	R-2 1.9 miles NNW	9,100 (4/4) (5,639 – 15,990)	6,005 4/4) (5,573 – 6,969)	0
Crops (pCi/kg wet)	Gamma (2)					NR-U1	
	K-40	-	3,220(1/1) (3,220-3,220)	NR-D1 8.9 miles S	3,220(1/1) (3,220-3,220)	3,729 (1-1) (3,729-3,729)	0
Bottom Sediment (pCi/kg dry)	Gamma (5)					JRR	
	K-40	-	10,448 (3/3) (10,216-15,900)	DC 0.9 miles WNW	10,564 (2/2) (10,539-10,589)	14,409 (2/2) (16,047 – 17,567)	0
	Cs-137	-	48 (3/3) (23 – 52)	DC 0.9 miles WNW	60 (2/2) (51.6-67.8)	35.4- (2/2) (22.8-48.1)	0
	Fe-55 (2)	-	10,327- (2/2) (9,587-11068)	DC 0.9 miles WNW	10,327- (2/2) (9,587-11068)	No Control	0

** Mean and range based upon detectable measurements only. Fraction of detectable measurements at specified locations is indicated in parentheses (f)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY

Name of Facility: Wolf Creek Generating Station Docket No.: 50-482

Location of Facility: Coffey County, Kansas Reporting Period: Annual 2025

Medium of Pathway Sampled (Unit of Measurement)	Analysis and Total Number of Analysis Performed	ODCM Lower Limit of Detection (LLD)	All Indicator Locations ** Mean (f) ** Range	Indicator Location with Highest Annual Mean Name Distance and Direction	** Mean (f) ** Range	Control Locations ** Mean (f) ** Range	Number of Nonroutine Reported Measurements **
Aquatic Vegetation (pCi/kg wet)	Gamma (3)					No Control	
	Be-7	-	419 (3/3) (244 - 601)	SC 0.8 miles NNW	601 (1/1) (601 - 601)	-	0
	K-40	-	2,659 (3/3) (2,373- 3,002)	EEA 3.0 miles NNW	3,302 (1/1) (3,302 – 3,302)	-	0
	Cs-137	-	- (0/4)	N/A	N/A	-	0
Terrestrial Vegetation (pCi/kg wet)	Gamma (2)					No Control	
	Be-7	-	2,703 (2/2) (2,002 – 3,403)	EEA 3.0 miles NNW	3,403 (1/1) (3,403 – 3,403)	-	0
	K-40	-	4,751 (2/2) (2,250 – 7,251)	EEA 3.0 miles NNW	7,251 (1/1) (7,251-7,251)	-	0
Soil (pCi/kg dry)	Gamma (0)					No Control	
	K-40	-	(0/0)	N/A	N/A	-	0
	Cs-137	-	(0/0)	N/A	N/A	-	0
Meat (pCi/kg wet) Deer/Turkey	Gamma (2)					No Control	
	K-40	-	2,777 (2/2) (2,714 –2,840)	H1.3 (Deer) 1.3 miles SSW	2,480(1/1) (2,480 – 2,480)	-	0

** Mean and range based upon detectable measurements only. Fraction of detectable measurements at specified locations is indicated in parentheses (f)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY

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Location of Facility: Coffey County, Kansas Reporting Period: Annual 2025

Medium of Pathway Sampled (Unit of Measurement)	Analysis and Total Number of Analysis Performed	ODCM Lower Limit of Detection (LLD)	All Indicator Locations ** Mean (f) ** Range	Indicator Location with Highest Annual Mean Name Distance and Direction	** Mean (f) ** Range	Control Locations ** Mean (f) ** Range	Number of Nonroutine Reported Measurements **
	Tritium	-	1,360 (2/2) (134-2,586)	H1.3 (Deer) 1.3 miles SSW	2,586 (1/1) (2,586 – 2,586)	No Control	0

** Mean and range based upon detectable measurements only. Fraction of detectable measurements at specified locations is indicated in parentheses (f)

APPENDIX C

INDIVIDUAL SAMPLE RESULTS

Air Particulate Filters and Radioiodine Canisters

Location: 002

Collection StartDate	Collection EndDate	Volume m3	Gross Beta Concentration (pCi/m3)			I-131 Concentration (pCi/m3)		Duplicate Analysis
30-Dec-24	07-Jan-25	373	0.024	+/-	0.004	<	0.008	
07-Jan-25	13-Jan-25	261	0.032	+/-	0.005	<	0.010	
13-Jan-25	20-Jan-25	306	0.020	+/-	0.004	<	0.009	
20-Jan-25	28-Jan-25	341	0.019	+/-	0.004	<	0.008	
28-Jan-25	03-Feb-25	256	0.035	+/-	0.006	<	0.013	
03-Feb-25	10-Feb-25	326	0.018	+/-	0.004	<	0.010	
03-Feb-25	10-Feb-25	326	0.022	+/-	0.004			Duplicate
10-Feb-25	17-Feb-25	307	0.033	+/-	0.005	<	0.010	
17-Feb-25	24-Feb-25	297	0.029	+/-	0.005	<	0.009	
24-Feb-25	03-Mar-25	300	0.013	+/-	0.004	<	0.009	
03-Mar-25	10-Mar-25	304	0.015	+/-	0.004	<	0.014	
10-Mar-25	17-Mar-25	296	0.030	+/-	0.005	<	0.018	
10-Mar-25	17-Mar-25	296	0.024	+/-	0.005			Duplicate
17-Mar-25	24-Mar-25	302	0.015	+/-	0.004	<	0.011	
24-Mar-25	31-Mar-25	311	0.012	+/-	0.004	<	0.008	
31-Mar-25	07-Apr-25	296	0.017	+/-	0.004	<	0.013	
07-Apr-25	14-Apr-25	301	0.030	+/-	0.005	<	0.013	
14-Apr-25	21-Apr-25	302	0.018	+/-	0.004	<	0.014	
21-Apr-25	28-Apr-25	300	0.020	+/-	0.004	<	0.016	
28-Apr-25	05-May-25	304	0.012	+/-	0.004	<	0.014	
05-May-25	12-May-25	306	0.019	+/-	0.004	<	0.011	
12-May-25	19-May-25	302	0.019	+/-	0.004	<	0.010	
19-May-25	27-May-25	355	0.009	+/-	0.003	<	0.009	
19-May-25	27-May-25	355	0.009	+/-	0.003			Duplicate
27-May-25	02-Jun-25	244	0.023	+/-	0.006	<	0.009	
02-Jun-25	09-Jun-25	304	0.015	+/-	0.004	<	0.009	
09-Jun-25	16-Jun-25	300	0.018	+/-	0.004	<	0.011	
09-Jun-25	16-Jun-25	300	0.016	+/-	0.004			Duplicate
16-Jun-25	23-Jun-25	285	0.018	+/-	0.004	<	0.009	
16-Jun-25	23-Jun-25	285	0.021	+/-	0.004			Duplicate
23-Jun-25	30-Jun-25	303	0.018	+/-	0.004	<	0.007	
31-Mar-25	30-Jun-25	3902						
30-Jun-25	07-Jul-25	296	0.029	+/-	0.005	<	0.012	
30-Jun-25	07-Jul-25	296	0.022	+/-	0.004			Duplicate
07-Jul-25	14-Jul-25	301	0.019	+/-	0.004	<	0.010	
14-Jul-25	21-Jul-25	300	0.019	+/-	0.004	<	0.012	
21-Jul-25	28-Jul-25	300	0.015	+/-	0.004	<	0.006	
28-Jul-25	04-Aug-25	299	0.016	+/-	0.004	<	0.007	
04-Aug-25	11-Aug-25	301	0.029	+/-	0.005	<	0.011	
11-Aug-25	18-Aug-25	292	0.021	+/-	0.004	<	0.008	
18-Aug-25	26-Aug-25	350	0.025	+/-	0.004	<	0.007	

Air Particulate Filters and Radioiodine Canisters

Location: 002

Collection StartDate	Collection EndDate	Volume m3	Gross Beta Concentration (pCi/m3)	I-131 Concentration (pCi/m3)	Duplicate Analysis
26-Aug-25	02-Sep-25	296	0.029 +/- 0.005	< 0.013	
02-Sep-25	08-Sep-25	255	0.029 +/- 0.005	< 0.008	
08-Sep-25	15-Sep-25	298	0.044 +/- 0.005	< 0.018	
15-Sep-25	22-Sep-25	202	0.045 +/- 0.007	< 0.017	
22-Sep-25	29-Sep-25	296	0.043 +/- 0.005	< 0.013	
29-Sep-25	06-Oct-25	299	0.054 +/- 0.005	< 0.014	
06-Oct-25	13-Oct-25	300	0.034 +/- 0.004	< 0.017	
13-Oct-25	20-Oct-25	297	0.049 +/- 0.005	< 0.018	
20-Oct-25	27-Oct-25	304	0.018 +/- 0.004	< 0.011	
27-Oct-25	03-Nov-25	303	0.019 +/- 0.004	< 0.006	
03-Nov-25	10-Nov-25	302	0.032 +/- 0.004	< 0.010	
10-Nov-25	17-Nov-25	291	0.028 +/- 0.004	< 0.011	
17-Nov-25	24-Nov-25	301	0.024 +/- 0.004	< 0.017	
24-Nov-25	01-Dec-25	508	0.017 +/- 0.002	< 0.004	
01-Dec-25	08-Dec-25	288	0.034 +/- 0.005	< 0.017	
08-Dec-25	15-Dec-25	306	0.031 +/- 0.004	< 0.030	
15-Dec-25	22-Dec-25	291	0.028 +/- 0.004	< 0.020	
22-Dec-25	29-Dec-25	297	0.032 +/- 0.004	< 0.015	

Air Particulate Filters and Radioiodine Canisters

Location: 018

Collection StartDate	Collection EndDate	Volume m3	Gross Beta Concentration (pCi/m3)			I-131 Concentration (pCi/m3)		Duplicate Analysis
30-Dec-24	07-Jan-25	358	0.024	+/-	0.004	<	0.008	
07-Jan-25	13-Jan-25	39	0.066	+/-	0.029	<	0.064	
13-Jan-25	20-Jan-25	290	0.024	+/-	0.005	<	0.010	
13-Jan-25	20-Jan-25	290	0.023	+/-	0.005			
20-Jan-25	28-Jan-25	334	0.023	+/-	0.004	<	0.008	
28-Jan-25	03-Feb-25	253	0.032	+/-	0.005	<	0.014	
03-Feb-25	10-Feb-25	309	0.025	+/-	0.005	<	0.010	
10-Feb-25	17-Feb-25	301	0.032	+/-	0.005	<	0.010	
17-Feb-25	24-Feb-25	302	0.027	+/-	0.005	<	0.010	
24-Feb-25	03-Mar-25	284	0.019	+/-	0.005	<	0.010	
03-Mar-25	10-Mar-25	298	0.017	+/-	0.004	<	0.014	
10-Mar-25	17-Mar-25	292	0.029	+/-	0.005	<	0.018	
17-Mar-25	24-Mar-25	291	0.015	+/-	0.004	<	0.011	
24-Mar-25	31-Mar-25	295	0.012	+/-	0.004	<	0.009	
31-Mar-25	07-Apr-25	244	0.015	+/-	0.005	<	0.016	
07-Apr-25	14-Apr-25	296	0.031	+/-	0.005	<	0.013	
14-Apr-25	21-Apr-25	294	0.018	+/-	0.004	<	0.014	
21-Apr-25	28-Apr-25	298	0.021	+/-	0.004	<	0.016	
28-Apr-25	05-May-25	296	0.011	+/-	0.004	<	0.014	
05-May-25	12-May-25	299	0.021	+/-	0.004	<	0.012	
12-May-25	19-May-25	298	0.021	+/-	0.004	<	0.010	
19-May-25	27-May-25	345	0.009	+/-	0.003	<	0.009	
27-May-25	02-Jun-25	246	0.024	+/-	0.006	<	0.009	
02-Jun-25	09-Jun-25	302	0.014	+/-	0.004	<	0.009	
09-Jun-25	16-Jun-25	293	0.019	+/-	0.004	<	0.011	
16-Jun-25	23-Jun-25	285	0.020	+/-	0.004	<	0.009	
23-Jun-25	30-Jun-25	297	0.016	+/-	0.004	<	0.007	
31-Mar-25	30-Jun-25	3793						
30-Jun-25	07-Jul-25	294	0.023	+/-	0.004	<	0.012	
07-Jul-25	14-Jul-25	297	0.020	+/-	0.004	<	0.010	
14-Jul-25	21-Jul-25	296	0.018	+/-	0.004	<	0.012	
21-Jul-25	28-Jul-25	302	0.013	+/-	0.004	<	0.006	
28-Jul-25	04-Aug-25	297	0.021	+/-	0.004	<	0.007	
04-Aug-25	11-Aug-25	304	0.026	+/-	0.005	<	0.011	
11-Aug-25	18-Aug-25	287	0.022	+/-	0.004	<	0.008	
18-Aug-25	26-Aug-25	346	0.021	+/-	0.004	<	0.007	
18-Aug-25	26-Aug-25	346	0.022	+/-	0.004			Duplicate
26-Aug-25	02-Sep-25	302	0.029	+/-	0.005	<	0.013	
02-Sep-25	08-Sep-25	253	0.021	+/-	0.005	<	0.008	
08-Sep-25	15-Sep-25	292	0.038	+/-	0.005	<	0.019	
15-Sep-25	22-Sep-25	293	0.041	+/-	0.005	<	0.012	

Air Particulate Filters and Radioiodine Canisters

Location: 018

Collection StartDate	Collection EndDate	Volume m3	Gross Beta Concentration (pCi/m3)	I-131 Concentration (pCi/m3)	Duplicate Analysis
22-Sep-25	29-Sep-25	297	0.040 +/- 0.005	< 0.013	
29-Sep-25	06-Oct-25	168	0.046 +/- 0.007	< 0.025	
06-Oct-25	13-Oct-25	304	0.031 +/- 0.004	< 0.017	
13-Oct-25	20-Oct-25	299	0.044 +/- 0.005	< 0.018	
20-Oct-25	27-Oct-25	299	0.019 +/- 0.004	< 0.012	
27-Oct-25	03-Nov-25	302	0.019 +/- 0.004	< 0.006	
03-Nov-25	10-Nov-25	304	0.030 +/- 0.004	< 0.010	
10-Nov-25	17-Nov-25	284	0.027 +/- 0.004	< 0.011	
17-Nov-25	24-Nov-25	303	0.021 +/- 0.004	< 0.017	
24-Nov-25	01-Dec-25	294	0.016 +/- 0.004	< 0.008	
01-Dec-25	08-Dec-25	305	0.033 +/- 0.004	< 0.016	
08-Dec-25	15-Dec-25	306	0.031 +/- 0.004	< 0.030	
15-Dec-25	22-Dec-25	290	0.031 +/- 0.004	< 0.020	
22-Dec-25	29-Dec-25	295	0.034 +/- 0.004	< 0.014	

Air Particulate Filters and Radioiodine Canisters

Location: 032

Collection StartDate	Collection EndDate	Volume m3	Gross Beta Concentration (pCi/m3)			I-131 Concentration (pCi/m3)		Duplicate Analysis
30-Dec-24	07-Jan-25	298	0.022	+/-	0.004	<	0.008	
07-Jan-25	13-Jan-25	254	0.042	+/-	0.006	<	0.010	
13-Jan-25	20-Jan-25	303	0.024	+/-	0.005	<	0.009	
20-Jan-25	28-Jan-25	343	0.023	+/-	0.004	<	0.008	
28-Jan-25	03-Feb-25	249	0.032	+/-	0.006	<	0.014	
03-Feb-25	10-Feb-25	305	0.024	+/-	0.005	<	0.011	
10-Feb-25	17-Feb-25	297	0.033	+/-	0.005	<	0.010	
17-Feb-25	24-Feb-25	297	0.026	+/-	0.005	<	0.010	
24-Feb-25	03-Mar-25	297	0.015	+/-	0.004	<	0.010	
03-Mar-25	10-Mar-25	296	0.015	+/-	0.004	<	0.014	
10-Mar-25	17-Mar-25	286	0.029	+/-	0.005	<	0.018	
17-Mar-25	24-Mar-25	300	0.015	+/-	0.004	<	0.011	
24-Mar-25	31-Mar-25	299	0.016	+/-	0.004	<	0.009	
31-Mar-25	07-Apr-25	299	0.014	+/-	0.004	<	0.013	
07-Apr-25	14-Apr-25	300	0.031	+/-	0.005	<	0.013	
14-Apr-25	21-Apr-25	301	0.017	+/-	0.004	<	0.014	
21-Apr-25	28-Apr-25	301	0.024	+/-	0.004	<	0.015	
28-Apr-25	05-May-25	300	0.014	+/-	0.004	<	0.014	
28-Apr-25	05-May-25	300	0.013	+/-	0.004			Duplicate
05-May-25	12-May-25	301	0.020	+/-	0.004	<	0.012	
12-May-25	19-May-25	297	0.022	+/-	0.004	<	0.010	
19-May-25	27-May-25	349	0.011	+/-	0.003	<	0.009	
27-May-25	02-Jun-25	250	0.020	+/-	0.005	<	0.009	
02-Jun-25	09-Jun-25	347	0.016	+/-	0.004	<	0.008	
09-Jun-25	16-Jun-25	293	0.014	+/-	0.004	<	0.011	
16-Jun-25	23-Jun-25	291	0.020	+/-	0.004	<	0.009	
23-Jun-25	30-Jun-25	303	0.012	+/-	0.004	<	0.007	
31-Mar-25	30-Jun-25	3932						
31-Mar-25	30-Jun-25	3932						Duplicate
30-Jun-25	07-Jul-25	295	0.019	+/-	0.004	<	0.012	
07-Jul-25	14-Jul-25	300	0.022	+/-	0.004	<	0.010	
14-Jul-25	21-Jul-25	298	0.015	+/-	0.004	<	0.012	
21-Jul-25	28-Jul-25	302	0.013	+/-	0.004	<	0.006	
28-Jul-25	04-Aug-25	300	0.020	+/-	0.004	<	0.007	
04-Aug-25	11-Aug-25	313	0.026	+/-	0.004	<	0.011	
11-Aug-25	18-Aug-25	287	0.025	+/-	0.005	<	0.008	
18-Aug-25	26-Aug-25	344	0.021	+/-	0.004	<	0.007	
26-Aug-25	02-Sep-25	300	0.030	+/-	0.005	<	0.013	
02-Sep-25	08-Sep-25	256	0.025	+/-	0.005	<	0.005	
08-Sep-25	15-Sep-25	296	0.042	+/-	0.005	<	0.018	
15-Sep-25	22-Sep-25	300	0.039	+/-	0.005	<	0.011	

Air Particulate Filters and Radioiodine Canisters

Location: 032

Collection StartDate	Collection EndDate	Volume m3	Gross Beta Concentration (pCi/m3)	I-131 Concentration (pCi/m3)	Duplicate Analysis
22-Sep-25	29-Sep-25	297	0.036 +/- 0.005	< 0.013	
29-Sep-25	06-Oct-25	302	0.053 +/- 0.005	< 0.014	
06-Oct-25	13-Oct-25	368	0.032 +/- 0.004	< 0.014	
13-Oct-25	20-Oct-25	298	0.048 +/- 0.005	< 0.018	
20-Oct-25	27-Oct-25	302	0.021 +/- 0.004	< 0.011	
27-Oct-25	03-Nov-25	304	0.023 +/- 0.004	< 0.006	
03-Nov-25	10-Nov-25	303	0.034 +/- 0.004	< 0.010	
10-Nov-25	17-Nov-25	286	0.028 +/- 0.004	< 0.011	
17-Nov-25	24-Nov-25	301	0.027 +/- 0.004	< 0.017	
24-Nov-25	01-Dec-25	311	0.017 +/- 0.003	< 0.007	
01-Dec-25	08-Dec-25	298	0.031 +/- 0.004	< 0.017	
08-Dec-25	15-Dec-25	304	0.028 +/- 0.004	< 0.030	
15-Dec-25	22-Dec-25	289	0.026 +/- 0.004	< 0.020	
22-Dec-25	29-Dec-25	297	0.030 +/- 0.004	< 0.015	

Air Particulate Filters and Radioiodine Canisters

Location: 037

Collection StartDate	Collection EndDate	Volume m3	Gross Beta Concentration (pCi/m3)			I-131 Concentration (pCi/m3)		Duplicate Analysis
30-Dec-24	07-Jan-25	363	0.026	+/-	0.004	<	0.008	
07-Jan-25	13-Jan-25	250	0.042	+/-	0.006	<	0.010	
13-Jan-25	20-Jan-25	302	0.024	+/-	0.005	<	0.009	
20-Jan-25	28-Jan-25	343	0.024	+/-	0.004	<	0.008	
28-Jan-25	03-Feb-25	250	0.032	+/-	0.006	<	0.014	
03-Feb-25	10-Feb-25	310	0.024	+/-	0.004	<	0.010	
10-Feb-25	17-Feb-25	300	0.036	+/-	0.005	<	0.010	
17-Feb-25	24-Feb-25	305	0.028	+/-	0.005	<	0.009	
24-Feb-25	03-Mar-25	300	0.013	+/-	0.004	<	0.009	
03-Mar-25	10-Mar-25	279	0.016	+/-	0.005	<	0.015	
10-Mar-25	17-Mar-25	287	0.024	+/-	0.005	<	0.018	
17-Mar-25	24-Mar-25	295	0.017	+/-	0.004	<	0.011	
24-Mar-25	31-Mar-25	297	0.013	+/-	0.004	<	0.009	
31-Mar-25	07-Apr-25	299	0.016	+/-	0.004	<	0.013	
31-Mar-25	07-Apr-25	299	0.018	+/-	0.004			Duplicate
07-Apr-25	14-Apr-25	298	0.027	+/-	0.005	<	0.013	
14-Apr-25	21-Apr-25	298	0.017	+/-	0.004	<	0.014	
14-Apr-25	21-Apr-25	298	0.015	+/-	0.004			Duplicate
21-Apr-25	28-Apr-25	299	0.017	+/-	0.004	<	0.016	
28-Apr-25	05-May-25	301	0.011	+/-	0.004	<	0.014	
05-May-25	12-May-25	301	0.021	+/-	0.004	<	0.012	
05-May-25	12-May-25	301	0.023	+/-	0.004			Duplicate
12-May-25	19-May-25	298	0.021	+/-	0.004	<	0.010	
19-May-25	27-May-25	343	0.010	+/-	0.003	<	0.009	
27-May-25	02-Jun-25	255	0.018	+/-	0.005	<	0.009	
27-May-25	02-Jun-25	255	0.022	+/-	0.005			Duplicate
02-Jun-25	09-Jun-25	298	0.013	+/-	0.004	<	0.009	
09-Jun-25	16-Jun-25	298	0.016	+/-	0.004	<	0.011	
16-Jun-25	23-Jun-25	302	0.019	+/-	0.004	<	0.009	
23-Jun-25	30-Jun-25	299	0.020	+/-	0.004	<	0.007	
23-Jun-25	30-Jun-25	299	0.018	+/-	0.004			Duplicate
31-Mar-25	30-Jun-25	3889						
30-Jun-25	07-Jul-25	297	0.023	+/-	0.004	<	0.012	
07-Jul-25	14-Jul-25	302	0.022	+/-	0.004	<	0.010	
07-Jul-25	14-Jul-25	302	0.019	+/-	0.004			Duplicate
14-Jul-25	21-Jul-25	301	0.017	+/-	0.004	<	0.011	
14-Jul-25	21-Jul-25	301	0.021	+/-	0.005			Duplicate
21-Jul-25	28-Jul-25	300	0.016	+/-	0.004	<	0.006	
28-Jul-25	04-Aug-25	301	0.022	+/-	0.004	<	0.007	
04-Aug-25	11-Aug-25	301	0.028	+/-	0.005	<	0.011	
04-Aug-25	11-Aug-25	301	0.028	+/-	0.005			Duplicate

Air Particulate Filters and Radioiodine Canisters

Location: 037

Collection StartDate	Collection EndDate	Volume m3	Gross Beta Concentration (pCi/m3)	I-131 Concentration (pCi/m3)	Duplicate Analysis
11-Aug-25	18-Aug-25	288	0.021 +/- 0.004	< 0.008	
18-Aug-25	26-Aug-25	345	0.026 +/- 0.004	< 0.007	
26-Aug-25	02-Sep-25	296	0.031 +/- 0.005	< 0.013	
02-Sep-25	08-Sep-25	256	0.024 +/- 0.005	< 0.008	
08-Sep-25	15-Sep-25	297	0.042 +/- 0.005	< 0.018	
15-Sep-25	22-Sep-25	296	0.041 +/- 0.005	< 0.011	
22-Sep-25	29-Sep-25	298	0.041 +/- 0.005	< 0.013	
29-Sep-25	06-Oct-25	298	0.059 +/- 0.005	< 0.014	
06-Oct-25	13-Oct-25	303	0.030 +/- 0.004	< 0.017	
13-Oct-25	20-Oct-25	299	0.048 +/- 0.005	< 0.017	
20-Oct-25	27-Oct-25	304	0.021 +/- 0.004	< 0.011	
27-Oct-25	03-Nov-25	307	0.019 +/- 0.005	< 0.006	
03-Nov-25	10-Nov-25	301	0.030 +/- 0.004	< 0.010	
10-Nov-25	17-Nov-25	286	0.024 +/- 0.004	< 0.011	
17-Nov-25	24-Nov-25	301	0.021 +/- 0.004	< 0.017	
24-Nov-25	01-Dec-25	310	0.017 +/- 0.003	< 0.007	
01-Dec-25	08-Dec-25	294	0.036 +/- 0.005	< 0.017	
08-Dec-25	15-Dec-25	301	0.032 +/- 0.004	< 0.030	
15-Dec-25	22-Dec-25	293	0.025 +/- 0.004	< 0.020	
22-Dec-25	29-Dec-25	298	0.033 +/- 0.004	< 0.015	

Air Particulate Filters and Radioiodine Canisters

Location: 049

Collection StartDate	Collection EndDate	Volume m3	Gross Beta Concentration (pCi/m3)			I-131 Concentration (pCi/m3)		Duplicate Analysis
30-Dec-24	07-Jan-25	297	0.023	+/-	0.004	<	0.009	
07-Jan-25	13-Jan-25	248	0.043	+/-	0.006	<	0.010	
13-Jan-25	20-Jan-25	304	0.025	+/-	0.005	<	0.009	
20-Jan-25	28-Jan-25	343	0.024	+/-	0.004	<	0.008	
28-Jan-25	03-Feb-25	257	0.042	+/-	0.006	<	0.013	
03-Feb-25	10-Feb-25	308	0.024	+/-	0.005	<	0.010	
10-Feb-25	17-Feb-25	303	0.036	+/-	0.005	<	0.010	
10-Feb-25	17-Feb-25	303	0.035	+/-	0.005			Duplicate
17-Feb-25	24-Feb-25	307	0.032	+/-	0.005	<	0.009	
24-Feb-25	03-Mar-25	303	0.015	+/-	0.004	<	0.009	
03-Mar-25	10-Mar-25	300	0.015	+/-	0.004	<	0.014	
10-Mar-25	17-Mar-25	291	0.030	+/-	0.005	<	0.018	
17-Mar-25	24-Mar-25	298	0.018	+/-	0.004	<	0.011	
24-Mar-25	31-Mar-25	301	0.014	+/-	0.004	<	0.009	
31-Mar-25	07-Apr-25	298	0.016	+/-	0.004	<	0.013	
07-Apr-25	14-Apr-25	295	0.027	+/-	0.005	<	0.013	
14-Apr-25	21-Apr-25	298	0.017	+/-	0.004	<	0.014	
21-Apr-25	28-Apr-25	297	0.022	+/-	0.004	<	0.016	
28-Apr-25	05-May-25	301	0.010	+/-	0.004	<	0.014	
05-May-25	12-May-25	297	0.021	+/-	0.004	<	0.012	
12-May-25	19-May-25	299	0.021	+/-	0.004	<	0.010	
19-May-25	27-May-25	346	0.011	+/-	0.003	<	0.009	
27-May-25	02-Jun-25	256	0.024	+/-	0.005	<	0.009	
02-Jun-25	09-Jun-25	295	0.019	+/-	0.004	<	0.010	
09-Jun-25	16-Jun-25	296	0.018	+/-	0.004	<	0.011	
16-Jun-25	23-Jun-25	291	0.021	+/-	0.004	<	0.009	
23-Jun-25	30-Jun-25	302	0.019	+/-	0.004	<	0.007	
31-Mar-25	30-Jun-25	3871						
30-Jun-25	07-Jul-25	295	0.023	+/-	0.004	<	0.012	
07-Jul-25	14-Jul-25	288	0.023	+/-	0.004	<	0.010	
14-Jul-25	21-Jul-25	289	0.016	+/-	0.004	<	0.012	
21-Jul-25	28-Jul-25	297	0.015	+/-	0.004	<	0.006	
28-Jul-25	04-Aug-25	300	0.020	+/-	0.004	<	0.007	
28-Jul-25	04-Aug-25	300	0.018	+/-	0.004			Duplicate
04-Aug-25	11-Aug-25	300	0.026	+/-	0.005	<	0.011	
11-Aug-25	18-Aug-25	296	0.025	+/-	0.005	<	0.008	
18-Aug-25	26-Aug-25	341	0.022	+/-	0.004	<	0.007	
26-Aug-25	02-Sep-25	301	0.031	+/-	0.005	<	0.013	
02-Sep-25	08-Sep-25	258	0.024	+/-	0.005	<	0.008	
08-Sep-25	15-Sep-25	300	0.041	+/-	0.005	<	0.018	
15-Sep-25	22-Sep-25	299	0.043	+/-	0.005	<	0.011	

Air Particulate Filters and Radioiodine Canisters

Location: 049

Collection StartDate	Collection EndDate	Volume m3	Gross Beta Concentration (pCi/m3)	I-131 Concentration (pCi/m3)	Duplicate Analysis
22-Sep-25	29-Sep-25	301	0.045 +/- 0.005	< 0.013	
29-Sep-25	06-Oct-25	301	0.055 +/- 0.005	< 0.014	
06-Oct-25	13-Oct-25	301	0.028 +/- 0.004	< 0.017	
13-Oct-25	20-Oct-25	287	0.046 +/- 0.005	< 0.018	
20-Oct-25	27-Oct-25	303	0.025 +/- 0.004	< 0.011	
27-Oct-25	03-Nov-25	303	0.019 +/- 0.004	< 0.006	
03-Nov-25	10-Nov-25	299	0.028 +/- 0.004	< 0.010	
10-Nov-25	17-Nov-25	293	0.029 +/- 0.004	< 0.011	
17-Nov-25	24-Nov-25	308	0.021 +/- 0.004	< 0.017	
24-Nov-25	01-Dec-25	307	0.015 +/- 0.003	< 0.008	
01-Dec-25	08-Dec-25	303	0.042 +/- 0.005	< 0.017	
08-Dec-25	15-Dec-25	297	0.028 +/- 0.004	< 0.030	
15-Dec-25	22-Dec-25	266	0.027 +/- 0.004	< 0.022	
22-Dec-25	29-Dec-25	294	0.037 +/- 0.005	< 0.015	

Air Particulate Filters and Radioiodine Canisters

Location: 053

Collection StartDate	Collection EndDate	Volume m3	Gross Beta Concentration (pCi/m3)	I-131 Concentration (pCi/m3)	Duplicate Analysis
30-Dec-24	07-Jan-25	306	0.027 +/- 0.004	< 0.008	
07-Jan-25	13-Jan-25	256	0.037 +/- 0.006	< 0.009	
13-Jan-25	20-Jan-25	302	0.020 +/- 0.004	< 0.009	
20-Jan-25	28-Jan-25	342	0.023 +/- 0.004	< 0.008	
28-Jan-25	03-Feb-25	259	0.027 +/- 0.005	< 0.013	
03-Feb-25	10-Feb-25	308	0.025 +/- 0.005	< 0.010	
10-Feb-25	17-Feb-25	303	0.037 +/- 0.005	< 0.010	
17-Feb-25	24-Feb-25	303	0.026 +/- 0.005	< 0.009	
24-Feb-25	03-Mar-25	300	0.014 +/- 0.004	< 0.009	
03-Mar-25	10-Mar-25	301	0.013 +/- 0.004	< 0.014	
10-Mar-25	17-Mar-25	292	0.026 +/- 0.005	< 0.018	
17-Mar-25	24-Mar-25	290	0.016 +/- 0.004	< 0.011	
24-Mar-25	31-Mar-25	298	0.012 +/- 0.004	< 0.009	
31-Mar-25	07-Apr-25	291	0.016 +/- 0.004	< 0.014	
07-Apr-25	14-Apr-25	294	0.027 +/- 0.005	< 0.013	
14-Apr-25	21-Apr-25	297	0.016 +/- 0.004	< 0.014	
21-Apr-25	28-Apr-25	300	0.022 +/- 0.004	< 0.016	
28-Apr-25	05-May-25	300	0.008 +/- 0.004	< 0.014	
05-May-25	12-May-25	294	0.021 +/- 0.004	< 0.012	
12-May-25	19-May-25	296	0.020 +/- 0.004	< 0.010	
19-May-25	27-May-25	343	0.013 +/- 0.004	< 0.009	
27-May-25	02-Jun-25	257	0.017 +/- 0.005	< 0.009	
02-Jun-25	09-Jun-25	299	0.016 +/- 0.004	< 0.009	
09-Jun-25	16-Jun-25	290	0.017 +/- 0.005	< 0.011	
16-Jun-25	23-Jun-25	285	0.018 +/- 0.004	< 0.009	
23-Jun-25	30-Jun-25	301	0.015 +/- 0.004	< 0.007	
31-Mar-25	30-Jun-25	3871			
30-Jun-25	07-Jul-25	295	0.025 +/- 0.004	< 0.012	
07-Jul-25	14-Jul-25	297	0.023 +/- 0.004	< 0.010	
14-Jul-25	21-Jul-25	295	0.017 +/- 0.004	< 0.012	
21-Jul-25	28-Jul-25	296	0.016 +/- 0.004	< 0.006	
28-Jul-25	04-Aug-25	299	0.021 +/- 0.004	< 0.007	
04-Aug-25	11-Aug-25	302	0.027 +/- 0.005	< 0.011	
11-Aug-25	18-Aug-25	296	0.023 +/- 0.004	< 0.008	
18-Aug-25	26-Aug-25	350	0.025 +/- 0.004	< 0.007	
26-Aug-25	02-Sep-25	310	0.030 +/- 0.005	< 0.012	
02-Sep-25	08-Sep-25	265	0.026 +/- 0.005	< 0.008	
08-Sep-25	15-Sep-25	294	0.041 +/- 0.005	< 0.019	
15-Sep-25	22-Sep-25	296	0.040 +/- 0.005	< 0.011	
22-Sep-25	29-Sep-25	295	0.046 +/- 0.005	< 0.013	
29-Sep-25	06-Oct-25	299	0.058 +/- 0.005	< 0.014	

Air Particulate Filters and Radioiodine Canisters

Location: 053

Collection StartDate	Collection EndDate	Volume m3	Gross Beta Concentration (pCi/m3)	I-131 Concentration (pCi/m3)	Duplicate Analysis
06-Oct-25	13-Oct-25	306	0.030 +/- 0.004	< 0.017	
13-Oct-25	20-Oct-25	307	0.046 +/- 0.005	< 0.017	
20-Oct-25	27-Oct-25	301	0.019 +/- 0.004	< 0.011	
27-Oct-25	03-Nov-25	304	0.019 +/- 0.004	< 0.006	
03-Nov-25	10-Nov-25	304	0.029 +/- 0.004	< 0.010	
10-Nov-25	17-Nov-25	287	0.029 +/- 0.004	< 0.011	
17-Nov-25	24-Nov-25	286	0.027 +/- 0.005	< 0.018	
24-Nov-25	01-Dec-25	309	0.017 +/- 0.003	< 0.007	
01-Dec-25	08-Dec-25	285	0.036 +/- 0.005	< 0.018	
08-Dec-25	15-Dec-25	302	0.032 +/- 0.004	< 0.030	
15-Dec-25	22-Dec-25	279	0.027 +/- 0.004	< 0.021	
22-Dec-25	29-Dec-25	285	0.036 +/- 0.005	< 0.015	

Quarterly Air Particulates - Gamma

Location: 002

31-Mar-25

Nuclide	Concentration (pCi/m3)		
BE-7	0.060	+/-	0.011
MN-54		<	0.001
CO-58		<	0.001
FE-59		<	0.001
CO-60		<	0.001
ZN-65		<	0.002
ZR-NB-95		<	0.001
CS-134		<	0.001
CS-137		<	0.001

30-Jun-25

Nuclide	Concentration (pCi/m3)		
BE-7	0.090	+/-	0.013
MN-54		<	0.001
CO-58		<	0.001
FE-59		<	0.001
CO-60		<	0.001
ZN-65		<	0.003
ZR-NB-95		<	0.001
CS-134		<	0.001
CS-137		<	0.001

01-Oct-25

Nuclide	Concentration (pCi/m3)		
BE-7	0.077	+/-	0.017
MN-54		<	0.001
CO-58		<	0.001
FE-59		<	0.002
CO-60		<	0.001
ZN-65		<	0.002
ZR-NB-95		<	0.002
CS-134		<	0.001
CS-137		<	0.001

29-Dec-25

Nuclide	Concentration (pCi/m3)		
BE-7	0.059	+/-	0.013
MN-54		<	0.001
CO-58		<	0.001
FE-59		<	0.002
CO-60		<	0.001
ZN-65		<	0.002
ZR-NB-95		<	0.001
CS-134		<	0.001
CS-137		<	0.001

***Duplicate Analysis**

Quarterly Air Particulates - Gamma

Location: 018

31-Mar-25

Nuclide	Concentration (pCi/m3)		
BE-7	0.067	+/-	0.014
MN-54		<	0.001
CO-58		<	0.001
FE-59		<	0.001
CO-60		<	0.001
ZN-65		<	0.002
ZR-NB-95		<	0.001
CS-134		<	0.001
CS-137		<	0.001

30-Jun-25

Nuclide	Concentration (pCi/m3)		
BE-7	0.081	+/-	0.014
MN-54		<	0.001
CO-58		<	0.001
FE-59		<	0.002
CO-60		<	0.002
ZN-65		<	0.002
ZR-NB-95		<	0.002
CS-134		<	0.001
CS-137		<	0.001

01-Oct-25

Nuclide	Concentration (pCi/m3)		
BE-7	0.081	+/-	0.019
MN-54		<	0.001
CO-58		<	0.001
FE-59		<	0.002
CO-60		<	0.001
ZN-65		<	0.002
ZR-NB-95		<	0.002
CS-134		<	0.001
CS-137		<	0.002

29-Dec-25

Nuclide	Concentration (pCi/m3)		
BE-7	0.068	+/-	0.015
MN-54		<	0.001
CO-58		<	0.001
FE-59		<	0.002
CO-60		<	0.001
ZN-65		<	0.002
ZR-NB-95		<	0.002
CS-134		<	0.001
CS-137		<	0.001

***Duplicate Analysis**

Quarterly Air Particulates - Gamma

Location: 032

31-Mar-25

Nuclide	Concentration (pCi/m3)			
BE-7	0.061	+/-	0.010	
MN-54		<	0.001	
CO-58		<	0.001	
FE-59		<	0.002	
CO-60		<	0.001	
ZN-65		<	0.001	
ZR-NB-95		<	0.001	
CS-134		<	0.001	
CS-137		<	0.001	

30-Jun-25

Nuclide	Concentration (pCi/m3)			
BE-7	0.084	+/-	0.015	
BE-7	0.092	+/-	0.020	*
MN-54		<	0.001	*
MN-54		<	0.001	
CO-58		<	0.001	*
CO-58		<	0.001	
FE-59		<	0.001	
FE-59		<	0.003	*
CO-60		<	0.001	*
CO-60		<	0.001	
ZN-65		<	0.002	*
ZN-65		<	0.002	
ZR-NB-95		<	0.001	
ZR-NB-95		<	0.002	*
CS-134		<	0.001	*
CS-134		<	0.001	
CS-137		<	0.001	*
CS-137		<	0.001	

01-Oct-25

Nuclide	Concentration (pCi/m3)		
BE-7	0.101	+/-	0.017
MN-54		<	0.001
CO-58		<	0.001
FE-59		<	0.002
CO-60		<	0.001
ZN-65		<	0.002
ZR-NB-95		<	0.002
CS-134		<	0.001
CS-137		<	0.001

29-Dec-25

Nuclide	Concentration (pCi/m3)

***Duplicate Analysis**

Quarterly Air Particulates - Gamma

Location:	**032**		
BE-7	0.055	+/-	0.011
MN-54		<	0.001
CO-58		<	0.001
FE-59		<	0.001
CO-60		<	0.001
ZN-65		<	0.002
ZR-NB-95		<	0.002
CS-134		<	0.001
CS-137		<	0.001

***Duplicate Analysis**

Quarterly Air Particulates - Gamma

Location: 037

31-Mar-25

Nuclide	Concentration (pCi/m3)		
BE-7	0.062	+/-	0.015
MN-54		<	0.001
CO-58		<	0.001
FE-59		<	0.001
CO-60		<	0.001
ZN-65		<	0.001
ZR-NB-95		<	0.001
CS-134		<	0.001
CS-137		<	0.001

30-Jun-25

Nuclide	Concentration (pCi/m3)		
BE-7	0.059	+/-	0.010
MN-54		<	0.001
CO-58		<	0.001
FE-59		<	0.002
CO-60		<	0.001
ZN-65		<	0.001
ZR-NB-95		<	0.002
CS-134		<	0.001
CS-137		<	0.001

01-Oct-25

Nuclide	Concentration (pCi/m3)		
BE-7	0.097	+/-	0.018
MN-54		<	0.001
CO-58		<	0.001
FE-59		<	0.002
CO-60		<	0.001
ZN-65		<	0.002
ZR-NB-95		<	0.002
CS-134		<	0.002
CS-137		<	0.001

29-Dec-25

Nuclide	Concentration (pCi/m3)		
BE-7	0.057	+/-	0.011
MN-54		<	0.001
CO-58		<	0.001
FE-59		<	0.002
CO-60		<	0.001
ZN-65		<	0.002
ZR-NB-95		<	0.001
CS-134		<	0.001
CS-137		<	0.001

***Duplicate Analysis**

Quarterly Air Particulates - Gamma

Location: 049

31-Mar-25

Nuclide	Concentration (pCi/m3)		
BE-7	0.067	+/-	0.016
MN-54		<	0.001
CO-58		<	0.001
FE-59		<	0.001
CO-60		<	0.001
ZN-65		<	0.002
ZR-NB-95		<	0.001
CS-134		<	0.001
CS-137		<	0.001

30-Jun-25

Nuclide	Concentration (pCi/m3)		
BE-7	0.089	+/-	0.014
MN-54		<	0.001
CO-58		<	0.001
FE-59		<	0.002
CO-60		<	0.001
ZN-65		<	0.002
ZR-NB-95		<	0.002
CS-134		<	0.001
CS-137		<	0.001

01-Oct-25

Nuclide	Concentration (pCi/m3)		
BE-7	0.079	+/-	0.015
MN-54		<	0.001
CO-58		<	0.001
FE-59		<	0.002
CO-60		<	0.001
ZN-65		<	0.003
ZR-NB-95		<	0.002
CS-134		<	0.001
CS-137		<	0.001

29-Dec-25

Nuclide	Concentration (pCi/m3)		
BE-7	0.056	+/-	0.012
MN-54		<	0.001
CO-58		<	0.001
FE-59		<	0.002
CO-60		<	0.001
ZN-65		<	0.002
ZR-NB-95		<	0.001
CS-134		<	0.001
CS-137		<	0.001

***Duplicate Analysis**

Quarterly Air Particulates - Gamma

Location: 053

31-Mar-25

Nuclide	Concentration (pCi/m3)		
BE-7	0.063	+/-	0.015
MN-54		<	0.001
CO-58		<	0.001
FE-59		<	0.002
CO-60		<	0.001
ZN-65		<	0.002
ZR-NB-95		<	0.001
CS-134		<	0.001
CS-137		<	0.001

30-Jun-25

Nuclide	Concentration (pCi/m3)		
BE-7	0.067	+/-	0.014
MN-54		<	0.001
CO-58		<	0.001
FE-59		<	0.002
CO-60		<	0.001
ZN-65		<	0.002
ZR-NB-95		<	0.002
CS-134		<	0.001
CS-137		<	0.001

01-Oct-25

Nuclide	Concentration (pCi/m3)		
BE-7	0.084	+/-	0.018
MN-54		<	0.001
CO-58		<	0.002
FE-59		<	0.002
CO-60		<	0.001
ZN-65		<	0.002
ZR-NB-95		<	0.002
CS-134		<	0.001
CS-137		<	0.001

29-Dec-25

Nuclide	Concentration (pCi/m3)		
BE-7	0.056	+/-	0.012
MN-54		<	0.001
CO-58		<	0.000
FE-59		<	0.001
CO-60		<	0.001
ZN-65		<	0.001
ZR-NB-95		<	0.001
CS-134		<	0.001
CS-137		<	0.001

***Duplicate Analysis**

Exposure Pathway - Waterborne
Surface Water
Location: JRR

Collection Date	Sample Description	Nuclide	Concentration (pCi/Liter)		Duplicate Analysis
16-Jan-25	SURFACE WATER	MN-54	<	1.1	
16-Jan-25	SURFACE WATER	CO-58	<	1.3	
16-Jan-25	SURFACE WATER	FE-59	<	1.6	
16-Jan-25	SURFACE WATER	CO-60	<	1.2	
16-Jan-25	SURFACE WATER	ZN-65	<	2.5	
16-Jan-25	SURFACE WATER	ZR-NB-95	<	1.9	
16-Jan-25	SURFACE WATER	I-131	<	3.4	
16-Jan-25	SURFACE WATER	CS-134	<	1.2	
16-Jan-25	SURFACE WATER	CS-137	<	1.5	
16-Jan-25	SURFACE WATER	BA-LA-140	<	2.6	
16-Jan-25	SURFACE WATER	H-3	<	173.0	
11-Feb-25	SURFACE WATER	MN-54	<	3.5	
11-Feb-25	SURFACE WATER	CO-58	<	2.7	
11-Feb-25	SURFACE WATER	FE-59	<	3.2	
11-Feb-25	SURFACE WATER	CO-60	<	2.2	
11-Feb-25	SURFACE WATER	ZN-65	<	2.9	
11-Feb-25	SURFACE WATER	ZR-NB-95	<	3.3	
11-Feb-25	SURFACE WATER	I-131	<	3.8	
11-Feb-25	SURFACE WATER	CS-134	<	2.8	
11-Feb-25	SURFACE WATER	CS-137	<	4.2	
11-Feb-25	SURFACE WATER	BA-LA-140	<	3.4	
11-Feb-25	SURFACE WATER	H-3	<	183.0	
11-Feb-25	SURFACE WATER	FE-55	<	470.0	
19-Mar-25	SURFACE WATER	MN-54	<	4.1	
19-Mar-25	SURFACE WATER	CO-58	<	3.6	
19-Mar-25	SURFACE WATER	FE-59	<	8.2	
19-Mar-25	SURFACE WATER	CO-60	<	5.3	
19-Mar-25	SURFACE WATER	ZN-65	<	7.0	
19-Mar-25	SURFACE WATER	ZR-NB-95	<	4.2	
19-Mar-25	SURFACE WATER	I-131	<	5.8	
19-Mar-25	SURFACE WATER	CS-134	<	4.8	
19-Mar-25	SURFACE WATER	CS-137	<	6.0	
19-Mar-25	SURFACE WATER	BA-LA-140	<	2.0	
19-Mar-25	SURFACE WATER	H-3	<	177.0	
23-Apr-25	SURFACE WATER	MN-54	<	3.6	
23-Apr-25	SURFACE WATER	CO-58	<	4.2	
23-Apr-25	SURFACE WATER	FE-59	<	3.3	

Exposure Pathway - Waterborne
Surface Water
Location: JRR

Collection Date	Sample Description	Nuclide	Concentration (pCi/Liter)		Duplicate Analysis
23-Apr-25	SURFACE WATER	CO-60	<	3.8	
23-Apr-25	SURFACE WATER	ZN-65	<	5.1	
23-Apr-25	SURFACE WATER	ZR-NB-95	<	3.6	
23-Apr-25	SURFACE WATER	I-131	<	11.2	
23-Apr-25	SURFACE WATER	CS-134	<	3.4	
23-Apr-25	SURFACE WATER	CS-137	<	5.1	
23-Apr-25	SURFACE WATER	BA-LA-140	<	6.8	
23-Apr-25	SURFACE WATER	H-3	<	168.0	
28-May-25	SURFACE WATER	MN-54	<	2.2	
28-May-25	SURFACE WATER	MN-54	<	2.8	Duplicate
28-May-25	SURFACE WATER	CO-58	<	2.4	Duplicate
28-May-25	SURFACE WATER	CO-58	<	3.9	
28-May-25	SURFACE WATER	FE-59	<	7.6	Duplicate
28-May-25	SURFACE WATER	FE-59	<	5.2	
28-May-25	SURFACE WATER	CO-60	<	2.9	
28-May-25	SURFACE WATER	CO-60	<	6.3	Duplicate
28-May-25	SURFACE WATER	ZN-65	<	6.1	Duplicate
28-May-25	SURFACE WATER	ZN-65	<	2.9	
28-May-25	SURFACE WATER	ZR-NB-95	<	6.4	Duplicate
28-May-25	SURFACE WATER	ZR-NB-95	<	4.4	
28-May-25	SURFACE WATER	I-131	<	8.2	
28-May-25	SURFACE WATER	I-131	<	12.5	Duplicate
28-May-25	SURFACE WATER	CS-134	<	5.8	Duplicate
28-May-25	SURFACE WATER	CS-134	<	4.0	
28-May-25	SURFACE WATER	CS-137	<	5.7	
28-May-25	SURFACE WATER	CS-137	<	6.0	Duplicate
28-May-25	SURFACE WATER	BA-LA-140	<	4.4	Duplicate
28-May-25	SURFACE WATER	BA-LA-140	<	3.5	
28-May-25	SURFACE WATER	H-3	<	181.0	
28-May-25	SURFACE WATER	H-3	<	181.0	Duplicate
17-Jun-25	SURFACE WATER	MN-54	<	4.1	
17-Jun-25	SURFACE WATER	MN-54	<	4.1	
17-Jun-25	SURFACE WATER	CO-58	<	5.5	
17-Jun-25	SURFACE WATER	CO-58	<	5.5	
17-Jun-25	SURFACE WATER	FE-59	<	6.5	
17-Jun-25	SURFACE WATER	FE-59	<	6.5	
17-Jun-25	SURFACE WATER	CO-60	<	4.0	

Exposure Pathway - Waterborne
Surface Water
Location: JRR

Collection Date	Sample Description	Nuclide	Concentration (pCi/Liter)		Duplicate Analysis
17-Jun-25	SURFACE WATER	CO-60	<	4.0	
17-Jun-25	SURFACE WATER	ZN-65	<	7.1	
17-Jun-25	SURFACE WATER	ZN-65	<	7.1	
17-Jun-25	SURFACE WATER	ZR-NB-95	<	5.7	
17-Jun-25	SURFACE WATER	ZR-NB-95	<	5.7	
17-Jun-25	SURFACE WATER	I-131	<	5.6	
17-Jun-25	SURFACE WATER	I-131	<	5.6	
17-Jun-25	SURFACE WATER	CS-134	<	7.5	
17-Jun-25	SURFACE WATER	CS-134	<	7.5	
17-Jun-25	SURFACE WATER	CS-137	<	7.1	
17-Jun-25	SURFACE WATER	CS-137	<	7.1	
17-Jun-25	SURFACE WATER	BA-LA-140	<	5.3	
17-Jun-25	SURFACE WATER	BA-LA-140	<	5.3	
17-Jun-25	SURFACE WATER	H-3	<	178.0	
17-Jun-25	SURFACE WATER	H-3	<	178.0	
28-Jul-25	SURFACE WATER	MN-54	<	2.4	
28-Jul-25	SURFACE WATER	CO-58	<	4.6	
28-Jul-25	SURFACE WATER	FE-59	<	6.1	
28-Jul-25	SURFACE WATER	CO-60	<	3.8	
28-Jul-25	SURFACE WATER	ZN-65	<	5.4	
28-Jul-25	SURFACE WATER	ZR-NB-95	<	4.9	
28-Jul-25	SURFACE WATER	I-131	<	5.8	
28-Jul-25	SURFACE WATER	CS-134	<	4.4	
28-Jul-25	SURFACE WATER	CS-137	<	4.7	
28-Jul-25	SURFACE WATER	BA-LA-140	<	3.7	
28-Jul-25	SURFACE WATER	H-3	<	186.0	
27-Aug-25	SURFACE WATER	MN-54	<	2.8	
27-Aug-25	SURFACE WATER	CO-58	<	2.0	
27-Aug-25	SURFACE WATER	FE-59	<	3.8	
27-Aug-25	SURFACE WATER	CO-60	<	2.5	
27-Aug-25	SURFACE WATER	ZN-65	<	4.4	
27-Aug-25	SURFACE WATER	ZR-NB-95	<	2.4	
27-Aug-25	SURFACE WATER	I-131	<	3.6	
27-Aug-25	SURFACE WATER	CS-134	<	3.2	
27-Aug-25	SURFACE WATER	CS-137	<	3.2	
27-Aug-25	SURFACE WATER	BA-LA-140	<	1.9	
27-Aug-25	SURFACE WATER	H-3	<	172.0	

Exposure Pathway - Waterborne
Surface Water
Location: JRR

Collection Date	Sample Description	Nuclide	Concentration (pCi/Liter)		Duplicate Analysis
24-Sep-25	SURFACE WATER	MN-54	<	2.1	
24-Sep-25	SURFACE WATER	CO-58	<	2.7	
24-Sep-25	SURFACE WATER	FE-59	<	5.1	
24-Sep-25	SURFACE WATER	CO-60	<	2.7	
24-Sep-25	SURFACE WATER	ZN-65	<	5.0	
24-Sep-25	SURFACE WATER	ZR-NB-95	<	2.2	
24-Sep-25	SURFACE WATER	I-131	<	11.8	
24-Sep-25	SURFACE WATER	CS-134	<	2.8	
24-Sep-25	SURFACE WATER	CS-137	<	3.4	
24-Sep-25	SURFACE WATER	BA-LA-140	<	5.0	
24-Sep-25	SURFACE WATER	H-3	<	173.0	
24-Sep-25	SURFACE WATER	FE-55	<	106.0	
20-Oct-25	SURFACE WATER	MN-54	<	4.0	
20-Oct-25	SURFACE WATER	CO-58	<	2.7	
20-Oct-25	SURFACE WATER	FE-59	<	6.4	
20-Oct-25	SURFACE WATER	CO-60	<	3.9	
20-Oct-25	SURFACE WATER	ZN-65	<	6.5	
20-Oct-25	SURFACE WATER	ZR-NB-95	<	3.0	
20-Oct-25	SURFACE WATER	I-131	<	5.4	
20-Oct-25	SURFACE WATER	CS-134	<	4.8	
20-Oct-25	SURFACE WATER	CS-137	<	4.9	
20-Oct-25	SURFACE WATER	BA-LA-140	<	4.1	
20-Oct-25	SURFACE WATER	H-3	<	173.0	
24-Nov-25	SURFACE WATER	MN-54	<	2.2	
24-Nov-25	SURFACE WATER	CO-58	<	1.8	
24-Nov-25	SURFACE WATER	FE-59	<	4.0	
24-Nov-25	SURFACE WATER	CO-60	<	2.4	
24-Nov-25	SURFACE WATER	ZN-65	<	2.5	
24-Nov-25	SURFACE WATER	ZR-NB-95	<	2.8	
24-Nov-25	SURFACE WATER	I-131	<	7.7	
24-Nov-25	SURFACE WATER	CS-134	<	2.4	
24-Nov-25	SURFACE WATER	CS-137	<	1.8	
24-Nov-25	SURFACE WATER	BA-LA-140	<	4.2	
24-Nov-25	SURFACE WATER	H-3	<	173.0	
09-Dec-25	SURFACE WATER	MN-54	<	2.2	
09-Dec-25	SURFACE WATER	CO-58	<	2.1	
09-Dec-25	SURFACE WATER	FE-59	<	5.4	

Exposure Pathway - Waterborne
Surface Water
Location: JRR

Collection Date	Sample Description	Nuclide	Concentration (pCi/Liter)		Duplicate Analysis
09-Dec-25	SURFACE WATER	CO-60	<	3.0	
09-Dec-25	SURFACE WATER	ZN-65	<	4.4	
09-Dec-25	SURFACE WATER	ZR-NB-95	<	4.4	
09-Dec-25	SURFACE WATER	I-131	<	2.9	
09-Dec-25	SURFACE WATER	CS-134	<	3.5	
09-Dec-25	SURFACE WATER	CS-137	<	3.2	
09-Dec-25	SURFACE WATER	BA-LA-140	<	1.7	
09-Dec-25	SURFACE WATER	H-3	<	173.0	

Exposure Pathway - Waterborne
Surface Water
Location: SP

Collection Date	Sample Description	Nuclide	Concentration (pCi/Liter)		Duplicate Analysis
16-Jan-25	SURFACE WATER	MN-54	<	1.6	
16-Jan-25	SURFACE WATER	CO-58	<	1.6	
16-Jan-25	SURFACE WATER	FE-59	<	2.5	
16-Jan-25	SURFACE WATER	CO-60	<	2.1	
16-Jan-25	SURFACE WATER	ZN-65	<	2.7	
16-Jan-25	SURFACE WATER	ZR-NB-95	<	2.6	
16-Jan-25	SURFACE WATER	I-131	<	5.5	
16-Jan-25	SURFACE WATER	CS-134	<	1.9	
16-Jan-25	SURFACE WATER	CS-137	<	2.2	
16-Jan-25	SURFACE WATER	BA-LA-140	<	1.9	
16-Jan-25	SURFACE WATER	H-3	11,324 +/-	343.0	
11-Feb-25	SURFACE WATER	MN-54	<	2.3	
11-Feb-25	SURFACE WATER	CO-58	<	2.9	
11-Feb-25	SURFACE WATER	FE-59	<	6.0	
11-Feb-25	SURFACE WATER	CO-60	<	4.0	
11-Feb-25	SURFACE WATER	ZN-65	<	6.0	
11-Feb-25	SURFACE WATER	ZR-NB-95	<	2.6	
11-Feb-25	SURFACE WATER	I-131	<	4.3	
11-Feb-25	SURFACE WATER	CS-134	<	4.2	
11-Feb-25	SURFACE WATER	CS-137	<	5.1	
11-Feb-25	SURFACE WATER	BA-LA-140	<	3.7	
11-Feb-25	SURFACE WATER	H-3	11,787 +/-	352.0	
11-Feb-25	SURFACE WATER	FE-55	<	489.0	
19-Mar-25	SURFACE WATER	MN-54	<	8.3	Duplicate
19-Mar-25	SURFACE WATER	MN-54	<	3.9	
19-Mar-25	SURFACE WATER	CO-58	<	6.2	
19-Mar-25	SURFACE WATER	CO-58	<	6.2	Duplicate
19-Mar-25	SURFACE WATER	FE-59	<	7.7	
19-Mar-25	SURFACE WATER	FE-59	<	9.3	Duplicate
19-Mar-25	SURFACE WATER	CO-60	<	5.0	Duplicate
19-Mar-25	SURFACE WATER	CO-60	<	5.8	
19-Mar-25	SURFACE WATER	ZN-65	<	4.1	
19-Mar-25	SURFACE WATER	ZN-65	<	12.5	Duplicate
19-Mar-25	SURFACE WATER	ZR-NB-95	<	6.5	Duplicate
19-Mar-25	SURFACE WATER	ZR-NB-95	<	7.5	
19-Mar-25	SURFACE WATER	I-131	<	9.8	
19-Mar-25	SURFACE WATER	I-131	<	10.7	Duplicate

Exposure Pathway - Waterborne
Surface Water
Location: SP

Collection Date	Sample Description	Nuclide	Concentration (pCi/Liter)		Duplicate Analysis
19-Mar-25	SURFACE WATER	CS-134	<	6.9	
19-Mar-25	SURFACE WATER	CS-134	<	7.5	Duplicate
19-Mar-25	SURFACE WATER	CS-137	<	4.7	Duplicate
19-Mar-25	SURFACE WATER	CS-137	<	7.1	
19-Mar-25	SURFACE WATER	BA-LA-140	<	6.6	Duplicate
19-Mar-25	SURFACE WATER	BA-LA-140	<	5.8	
19-Mar-25	SURFACE WATER	H-3	13,111 +/-	367.0	
19-Mar-25	SURFACE WATER	H-3	12,865 +/-	363.0	Duplicate
23-Apr-25	SURFACE WATER	MN-54	<	3.6	
23-Apr-25	SURFACE WATER	CO-58	<	4.2	
23-Apr-25	SURFACE WATER	FE-59	<	7.3	
23-Apr-25	SURFACE WATER	CO-60	<	5.1	
23-Apr-25	SURFACE WATER	ZN-65	<	5.4	
23-Apr-25	SURFACE WATER	ZR-NB-95	<	4.3	
23-Apr-25	SURFACE WATER	I-131	<	11.8	
23-Apr-25	SURFACE WATER	CS-134	<	5.6	
23-Apr-25	SURFACE WATER	CS-137	<	5.0	
23-Apr-25	SURFACE WATER	BA-LA-140	<	3.6	
23-Apr-25	SURFACE WATER	H-3	14,149 +/-	381.0	
28-May-25	SURFACE WATER	MN-54	<	2.9	
28-May-25	SURFACE WATER	CO-58	<	3.8	
28-May-25	SURFACE WATER	FE-59	<	7.0	
28-May-25	SURFACE WATER	CO-60	<	5.2	
28-May-25	SURFACE WATER	ZN-65	<	5.9	
28-May-25	SURFACE WATER	ZR-NB-95	<	4.2	
28-May-25	SURFACE WATER	I-131	<	8.2	
28-May-25	SURFACE WATER	CS-134	<	6.1	
28-May-25	SURFACE WATER	CS-137	<	7.4	
28-May-25	SURFACE WATER	BA-LA-140	<	3.9	
28-May-25	SURFACE WATER	H-3	13,817 +/-	381.0	
28-May-25	SURFACE WATER	NI-63	<	151.0	
28-May-25	SURFACE WATER	SR-89	<	0.5	
28-May-25	SURFACE WATER	SR-90	<	0.6	
28-May-25	SURFACE WATER	FE-55	<	199.0	
17-Jun-25	SURFACE WATER	MN-54	<	4.7	
17-Jun-25	SURFACE WATER	MN-54	<	4.0	Duplicate
17-Jun-25	SURFACE WATER	MN-54	<	4.7	

Exposure Pathway - Waterborne
Surface Water
Location: SP

Collection Date	Sample Description	Nuclide	Concentration (pCi/Liter)		Duplicate Analysis
17-Jun-25	SURFACE WATER	MN-54	<	4.0	Duplicate
17-Jun-25	SURFACE WATER	CO-58	<	5.0	
17-Jun-25	SURFACE WATER	CO-58	<	4.7	Duplicate
17-Jun-25	SURFACE WATER	CO-58	<	5.0	
17-Jun-25	SURFACE WATER	CO-58	<	4.7	Duplicate
17-Jun-25	SURFACE WATER	FE-59	<	10.4	
17-Jun-25	SURFACE WATER	FE-59	<	6.5	Duplicate
17-Jun-25	SURFACE WATER	FE-59	<	6.5	Duplicate
17-Jun-25	SURFACE WATER	FE-59	<	10.4	
17-Jun-25	SURFACE WATER	CO-60	<	9.5	
17-Jun-25	SURFACE WATER	CO-60	<	5.8	Duplicate
17-Jun-25	SURFACE WATER	CO-60	<	9.5	
17-Jun-25	SURFACE WATER	CO-60	<	5.8	Duplicate
17-Jun-25	SURFACE WATER	ZN-65	<	11.4	
17-Jun-25	SURFACE WATER	ZN-65	<	11.4	
17-Jun-25	SURFACE WATER	ZN-65	<	6.1	Duplicate
17-Jun-25	SURFACE WATER	ZN-65	<	6.1	Duplicate
17-Jun-25	SURFACE WATER	ZR-NB-95	<	5.5	
17-Jun-25	SURFACE WATER	ZR-NB-95	<	4.7	Duplicate
17-Jun-25	SURFACE WATER	ZR-NB-95	<	4.7	Duplicate
17-Jun-25	SURFACE WATER	ZR-NB-95	<	5.5	
17-Jun-25	SURFACE WATER	I-131	<	12.8	
17-Jun-25	SURFACE WATER	I-131	<	5.6	Duplicate
17-Jun-25	SURFACE WATER	I-131	<	12.8	
17-Jun-25	SURFACE WATER	I-131	<	5.6	Duplicate
17-Jun-25	SURFACE WATER	CS-134	<	9.5	
17-Jun-25	SURFACE WATER	CS-134	<	6.4	Duplicate
17-Jun-25	SURFACE WATER	CS-134	<	9.5	
17-Jun-25	SURFACE WATER	CS-134	<	6.4	Duplicate
17-Jun-25	SURFACE WATER	CS-137	<	9.8	
17-Jun-25	SURFACE WATER	CS-137	<	4.8	Duplicate
17-Jun-25	SURFACE WATER	CS-137	<	4.8	Duplicate
17-Jun-25	SURFACE WATER	CS-137	<	9.8	
17-Jun-25	SURFACE WATER	BA-LA-140	<	8.6	
17-Jun-25	SURFACE WATER	BA-LA-140	<	4.6	Duplicate
17-Jun-25	SURFACE WATER	BA-LA-140	<	8.6	
17-Jun-25	SURFACE WATER	BA-LA-140	<	4.6	Duplicate

Exposure Pathway - Waterborne
Surface Water
Location: SP

Collection Date	Sample Description	Nuclide	Concentration (pCi/Liter)		Duplicate Analysis
17-Jun-25	SURFACE WATER	H-3	12,844 +/-	367.0	
17-Jun-25	SURFACE WATER	H-3	12,884 +/-	368.0	Duplicate
17-Jun-25	SURFACE WATER	H-3	12,844 +/-	367.0	
17-Jun-25	SURFACE WATER	H-3	12,884 +/-	368.0	Duplicate
30-Jul-25	SURFACE WATER	MN-54	<	3.6	
30-Jul-25	SURFACE WATER	CO-58	<	3.2	
30-Jul-25	SURFACE WATER	FE-59	<	4.0	
30-Jul-25	SURFACE WATER	CO-60	<	3.7	
30-Jul-25	SURFACE WATER	ZN-65	<	7.9	
30-Jul-25	SURFACE WATER	ZR-NB-95	<	2.9	
30-Jul-25	SURFACE WATER	I-131	<	7.6	
30-Jul-25	SURFACE WATER	CS-134	<	3.6	
30-Jul-25	SURFACE WATER	CS-137	<	5.2	
30-Jul-25	SURFACE WATER	BA-LA-140	<	3.5	
30-Jul-25	SURFACE WATER	H-3	13,240 +/-	374.0	
27-Aug-25	SURFACE WATER	MN-54	<	2.3	
27-Aug-25	SURFACE WATER	CO-58	<	3.0	
27-Aug-25	SURFACE WATER	FE-59	<	4.6	
27-Aug-25	SURFACE WATER	CO-60	<	4.5	
27-Aug-25	SURFACE WATER	ZN-65	<	5.2	
27-Aug-25	SURFACE WATER	ZR-NB-95	<	3.2	
27-Aug-25	SURFACE WATER	I-131	<	4.5	
27-Aug-25	SURFACE WATER	CS-134	<	3.9	
27-Aug-25	SURFACE WATER	CS-137	<	5.1	
27-Aug-25	SURFACE WATER	BA-LA-140	<	1.3	
27-Aug-25	SURFACE WATER	H-3	12,978 +/-	356.0	
24-Sep-25	SURFACE WATER	MN-54	<	2.2	
24-Sep-25	SURFACE WATER	CO-58	<	2.2	
24-Sep-25	SURFACE WATER	FE-59	<	4.2	
24-Sep-25	SURFACE WATER	CO-60	<	3.8	
24-Sep-25	SURFACE WATER	ZN-65	<	4.7	
24-Sep-25	SURFACE WATER	ZR-NB-95	<	3.3	
24-Sep-25	SURFACE WATER	I-131	<	6.7	
24-Sep-25	SURFACE WATER	CS-134	<	3.2	
24-Sep-25	SURFACE WATER	CS-137	<	4.6	
24-Sep-25	SURFACE WATER	BA-LA-140	<	3.1	
24-Sep-25	SURFACE WATER	H-3	12,745 +/-	354.0	

Exposure Pathway - Waterborne
Surface Water
Location: SP

Collection Date	Sample Description	Nuclide	Concentration (pCi/Liter)		Duplicate Analysis
24-Sep-25	SURFACE WATER	FE-55	<	162.0	
20-Oct-25	SURFACE WATER	MN-54	<	3.0	
20-Oct-25	SURFACE WATER	CO-58	<	1.9	
20-Oct-25	SURFACE WATER	FE-59	<	4.3	
20-Oct-25	SURFACE WATER	CO-60	<	1.9	
20-Oct-25	SURFACE WATER	ZN-65	<	4.6	
20-Oct-25	SURFACE WATER	ZR-NB-95	<	2.1	
20-Oct-25	SURFACE WATER	I-131	<	4.5	
20-Oct-25	SURFACE WATER	CS-134	<	3.1	
20-Oct-25	SURFACE WATER	CS-137	<	3.5	
20-Oct-25	SURFACE WATER	BA-LA-140	<	2.0	
20-Oct-25	SURFACE WATER	H-3	13,518 +/-	366.0	
24-Nov-25	SURFACE WATER	MN-54	<	3.5	
24-Nov-25	SURFACE WATER	CO-58	<	1.9	
24-Nov-25	SURFACE WATER	FE-59	<	6.9	
24-Nov-25	SURFACE WATER	CO-60	<	3.6	
24-Nov-25	SURFACE WATER	ZN-65	<	2.8	
24-Nov-25	SURFACE WATER	ZR-NB-95	<	2.5	
24-Nov-25	SURFACE WATER	I-131	<	10.5	
24-Nov-25	SURFACE WATER	CS-134	<	3.1	
24-Nov-25	SURFACE WATER	CS-137	<	4.1	
24-Nov-25	SURFACE WATER	BA-LA-140	<	3.0	
24-Nov-25	SURFACE WATER	H-3	12,790 +/-	357.0	
24-Nov-25	SURFACE WATER	NI-63	<	162.0	
24-Nov-25	SURFACE WATER	SR-89	<	1.3	
24-Nov-25	SURFACE WATER	SR-90	<	0.7	
24-Nov-25	SURFACE WATER	FE-55	<	164.0	
09-Dec-25	SURFACE WATER	MN-54	<	3.3	
09-Dec-25	SURFACE WATER	CO-58	<	3.5	
09-Dec-25	SURFACE WATER	FE-59	<	3.1	
09-Dec-25	SURFACE WATER	CO-60	<	3.4	
09-Dec-25	SURFACE WATER	ZN-65	<	3.4	
09-Dec-25	SURFACE WATER	ZR-NB-95	<	3.1	
09-Dec-25	SURFACE WATER	I-131	<	4.4	
09-Dec-25	SURFACE WATER	CS-134	<	3.2	
09-Dec-25	SURFACE WATER	CS-137	<	2.8	
09-Dec-25	SURFACE WATER	BA-LA-140	<	2.2	

Exposure Pathway - Waterborne
Surface Water
Location: SP

Collection Date	Sample Description	Nuclide	Concentration (pCi/Liter)		Duplicate Analysis
09-Dec-25	SURFACE WATER	H-3	13,080 +/-	361.0	

Exposure Pathway - Waterborne
Ground Water
Location: B-12

Collection Date	Sample Description	Nuclide	Concentration (pCi/Liter)		Duplicate Analysis
19-Mar-25	OFFSITE GROUNDWATER	MN-54	<	2.5	
19-Mar-25	OFFSITE GROUNDWATER	CO-58	<	2.6	
19-Mar-25	OFFSITE GROUNDWATER	FE-59	<	5.5	
19-Mar-25	OFFSITE GROUNDWATER	CO-60	<	4.7	
19-Mar-25	OFFSITE GROUNDWATER	ZN-65	<	7.5	
19-Mar-25	OFFSITE GROUNDWATER	ZR-NB-95	<	3.6	
19-Mar-25	OFFSITE GROUNDWATER	I-131	<	0.418	
19-Mar-25	OFFSITE GROUNDWATER	CS-134	<	5.3	
19-Mar-25	OFFSITE GROUNDWATER	CS-137	<	5.2	
19-Mar-25	OFFSITE GROUNDWATER	BA-LA-140	<	1.9	
19-Mar-25	OFFSITE GROUNDWATER	H-3	<	177.0	
28-May-25	OFFSITE GROUNDWATER	MN-54	<	5.9	
28-May-25	OFFSITE GROUNDWATER	CO-58	<	3.4	
28-May-25	OFFSITE GROUNDWATER	FE-59	<	7.0	
28-May-25	OFFSITE GROUNDWATER	CO-60	<	5.9	
28-May-25	OFFSITE GROUNDWATER	ZN-65	<	7.3	
28-May-25	OFFSITE GROUNDWATER	ZR-NB-95	<	4.8	
28-May-25	OFFSITE GROUNDWATER	I-131	<	0.435	
28-May-25	OFFSITE GROUNDWATER	CS-134	<	7.2	
28-May-25	OFFSITE GROUNDWATER	CS-137	<	6.6	
28-May-25	OFFSITE GROUNDWATER	BA-LA-140	<	4.5	
28-May-25	OFFSITE GROUNDWATER	H-3	<	181.0	
25-Aug-25	OFFSITE GROUNDWATER	MN-54	<	3.5	
25-Aug-25	OFFSITE GROUNDWATER	CO-58	<	4.0	
25-Aug-25	OFFSITE GROUNDWATER	FE-59	<	5.4	
25-Aug-25	OFFSITE GROUNDWATER	CO-60	<	4.8	
25-Aug-25	OFFSITE GROUNDWATER	ZN-65	<	4.7	
25-Aug-25	OFFSITE GROUNDWATER	ZR-NB-95	<	3.4	
25-Aug-25	OFFSITE GROUNDWATER	I-131	<	0.3	
25-Aug-25	OFFSITE GROUNDWATER	CS-134	<	5.1	
25-Aug-25	OFFSITE GROUNDWATER	CS-137	<	5.3	
25-Aug-25	OFFSITE GROUNDWATER	BA-LA-140	<	3.4	
25-Aug-25	OFFSITE GROUNDWATER	H-3	<	172.0	
09-Dec-25	OFFSITE GROUNDWATER	MN-54	<	3.0	
09-Dec-25	OFFSITE GROUNDWATER	CO-58	<	2.7	
09-Dec-25	OFFSITE GROUNDWATER	FE-59	<	5.1	
09-Dec-25	OFFSITE GROUNDWATER	CO-60	<	4.5	

Exposure Pathway - Waterborne
Ground Water
Location: B-12

Collection Date	Sample Description	Nuclide	Concentration (pCi/Liter)		Duplicate Analysis
09-Dec-25	OFFSITE GROUNDWATER	ZN-65	<	5.0	
09-Dec-25	OFFSITE GROUNDWATER	ZR-NB-95	<	3.2	
09-Dec-25	OFFSITE GROUNDWATER	I-131	<	203.0	
09-Dec-25	OFFSITE GROUNDWATER	CS-134	<	4.1	
09-Dec-25	OFFSITE GROUNDWATER	CS-137	<	5.2	
09-Dec-25	OFFSITE GROUNDWATER	BA-LA-140	<	1.6	
09-Dec-25	OFFSITE GROUNDWATER	H-3	<	173.0	

Exposure Pathway - Waterborne
Ground Water
Location: C-10

Collection Date	Sample Description	Nuclide	Concentration (pCi/Liter)		Duplicate Analysis
19-Mar-25	OFFSITE GROUNDWATER	MN-54	<	5.0	
19-Mar-25	OFFSITE GROUNDWATER	CO-58	<	6.4	
19-Mar-25	OFFSITE GROUNDWATER	FE-59	<	11.8	
19-Mar-25	OFFSITE GROUNDWATER	CO-60	<	6.2	
19-Mar-25	OFFSITE GROUNDWATER	ZN-65	<	15.9	
19-Mar-25	OFFSITE GROUNDWATER	ZR-NB-95	<	5.2	
19-Mar-25	OFFSITE GROUNDWATER	I-131	<	0.393	
19-Mar-25	OFFSITE GROUNDWATER	CS-134	<	10.3	
19-Mar-25	OFFSITE GROUNDWATER	CS-137	<	4.9	
19-Mar-25	OFFSITE GROUNDWATER	BA-LA-140	<	6.1	
19-Mar-25	OFFSITE GROUNDWATER	H-3	<	177.0	
28-May-25	OFFSITE GROUNDWATER	MN-54	<	2.2	
28-May-25	OFFSITE GROUNDWATER	CO-58	<	5.2	
28-May-25	OFFSITE GROUNDWATER	FE-59	<	5.1	
28-May-25	OFFSITE GROUNDWATER	CO-60	<	2.4	
28-May-25	OFFSITE GROUNDWATER	ZN-65	<	5.3	
28-May-25	OFFSITE GROUNDWATER	ZR-NB-95	<	3.7	
28-May-25	OFFSITE GROUNDWATER	I-131	<	0.443	
28-May-25	OFFSITE GROUNDWATER	CS-134	<	5.6	
28-May-25	OFFSITE GROUNDWATER	CS-137	<	3.8	
28-May-25	OFFSITE GROUNDWATER	BA-LA-140	<	4.7	
28-May-25	OFFSITE GROUNDWATER	H-3	<	181.0	
25-Aug-25	OFFSITE GROUNDWATER	MN-54	<	4.0	
25-Aug-25	OFFSITE GROUNDWATER	CO-58	<	3.1	
25-Aug-25	OFFSITE GROUNDWATER	FE-59	<	5.6	
25-Aug-25	OFFSITE GROUNDWATER	CO-60	<	3.6	
25-Aug-25	OFFSITE GROUNDWATER	ZN-65	<	8.1	
25-Aug-25	OFFSITE GROUNDWATER	ZR-NB-95	<	4.4	
25-Aug-25	OFFSITE GROUNDWATER	I-131	<	0.299	
25-Aug-25	OFFSITE GROUNDWATER	CS-134	<	4.0	
25-Aug-25	OFFSITE GROUNDWATER	CS-137	<	3.1	
25-Aug-25	OFFSITE GROUNDWATER	BA-LA-140	<	2.0	
25-Aug-25	OFFSITE GROUNDWATER	H-3	<	172.0	
09-Dec-25	OFFSITE GROUNDWATER	MN-54	<	2.9	
09-Dec-25	OFFSITE GROUNDWATER	CO-58	<	2.0	
09-Dec-25	OFFSITE GROUNDWATER	FE-59	<	3.0	
09-Dec-25	OFFSITE GROUNDWATER	CO-60	<	2.3	

Exposure Pathway - Waterborne
Ground Water
Location: C-10

Collection Date	Sample Description	Nuclide	Concentration (pCi/Liter)		Duplicate Analysis
09-Dec-25	OFFSITE GROUNDWATER	ZN-65	<	5.4	
09-Dec-25	OFFSITE GROUNDWATER	ZR-NB-95	<	3.0	
09-Dec-25	OFFSITE GROUNDWATER	I-131	<	0.312	
09-Dec-25	OFFSITE GROUNDWATER	CS-134	<	3.2	
09-Dec-25	OFFSITE GROUNDWATER	CS-137	<	3.2	
09-Dec-25	OFFSITE GROUNDWATER	BA-LA-140	<	3.0	
09-Dec-25	OFFSITE GROUNDWATER	H-3	<	173.0	

Exposure Pathway - Waterborne
Ground Water
Location: C-49

Collection Date	Sample Description	Nuclide	Concentration (pCi/Liter)		Duplicate Analysis
19-Mar-25	OFFSITE GROUNDWATER	MN-54	<	2.1	
19-Mar-25	OFFSITE GROUNDWATER	CO-58	<	4.5	
19-Mar-25	OFFSITE GROUNDWATER	FE-59	<	7.0	
19-Mar-25	OFFSITE GROUNDWATER	CO-60	<	5.1	
19-Mar-25	OFFSITE GROUNDWATER	ZN-65	<	4.6	
19-Mar-25	OFFSITE GROUNDWATER	ZR-NB-95	<	3.4	
19-Mar-25	OFFSITE GROUNDWATER	I-131	<	0.353	
19-Mar-25	OFFSITE GROUNDWATER	CS-134	<	6.1	
19-Mar-25	OFFSITE GROUNDWATER	CS-137	<	6.8	
19-Mar-25	OFFSITE GROUNDWATER	BA-LA-140	<	2.7	
19-Mar-25	OFFSITE GROUNDWATER	H-3	<	177.0	
28-May-25	OFFSITE GROUNDWATER	MN-54	<	4.6	
28-May-25	OFFSITE GROUNDWATER	CO-58	<	4.4	
28-May-25	OFFSITE GROUNDWATER	FE-59	<	4.2	
28-May-25	OFFSITE GROUNDWATER	CO-60	<	2.3	
28-May-25	OFFSITE GROUNDWATER	ZN-65	<	6.6	
28-May-25	OFFSITE GROUNDWATER	ZR-NB-95	<	3.0	
28-May-25	OFFSITE GROUNDWATER	I-131	<	0.404	
28-May-25	OFFSITE GROUNDWATER	CS-134	<	5.8	
28-May-25	OFFSITE GROUNDWATER	CS-137	<	4.4	
28-May-25	OFFSITE GROUNDWATER	BA-LA-140	<	4.7	
28-May-25	OFFSITE GROUNDWATER	H-3	<	181.0	
25-Aug-25	OFFSITE GROUNDWATER	MN-54	<	2.8	
25-Aug-25	OFFSITE GROUNDWATER	CO-58	<	3.0	
25-Aug-25	OFFSITE GROUNDWATER	FE-59	<	6.3	
25-Aug-25	OFFSITE GROUNDWATER	CO-60	<	3.4	
25-Aug-25	OFFSITE GROUNDWATER	ZN-65	<	4.6	
25-Aug-25	OFFSITE GROUNDWATER	ZR-NB-95	<	2.6	
25-Aug-25	OFFSITE GROUNDWATER	I-131	<	0.275	
25-Aug-25	OFFSITE GROUNDWATER	CS-134	<	3.4	
25-Aug-25	OFFSITE GROUNDWATER	CS-137	<	3.0	
25-Aug-25	OFFSITE GROUNDWATER	BA-LA-140	<	1.3	
25-Aug-25	OFFSITE GROUNDWATER	H-3	<	172.0	
09-Dec-25	OFFSITE GROUNDWATER	MN-54	<	3.1	
09-Dec-25	OFFSITE GROUNDWATER	CO-58	<	2.1	
09-Dec-25	OFFSITE GROUNDWATER	FE-59	<	4.9	
09-Dec-25	OFFSITE GROUNDWATER	CO-60	<	3.2	

Exposure Pathway - Waterborne
Ground Water
Location: C-49

Collection Date	Sample Description	Nuclide	Concentration (pCi/Liter)		Duplicate Analysis
09-Dec-25	OFFSITE GROUNDWATER	ZN-65	<	7.7	
09-Dec-25	OFFSITE GROUNDWATER	ZR-NB-95	<	3.1	
09-Dec-25	OFFSITE GROUNDWATER	I-131	<	0.257	
09-Dec-25	OFFSITE GROUNDWATER	CS-134	<	2.9	
09-Dec-25	OFFSITE GROUNDWATER	CS-137	<	3.8	
09-Dec-25	OFFSITE GROUNDWATER	BA-LA-140	<	1.4	
09-Dec-25	OFFSITE GROUNDWATER	H-3	<	173.0	

Exposure Pathway - Waterborne
Ground Water
Location: F-1

Collection Date	Sample Description	Nuclide	Concentration (pCi/Liter)		Duplicate Analysis
19-Mar-25	OFFSITE GROUNDWATER	MN-54	<	7.3	
19-Mar-25	OFFSITE GROUNDWATER	CO-58	<	3.9	
19-Mar-25	OFFSITE GROUNDWATER	FE-59	<	13.2	
19-Mar-25	OFFSITE GROUNDWATER	CO-60	<	4.8	
19-Mar-25	OFFSITE GROUNDWATER	ZN-65	<	9.4	
19-Mar-25	OFFSITE GROUNDWATER	ZR-NB-95	<	6.2	
19-Mar-25	OFFSITE GROUNDWATER	I-131	<	0.382	
19-Mar-25	OFFSITE GROUNDWATER	CS-134	<	10.5	
19-Mar-25	OFFSITE GROUNDWATER	CS-137	<	8.0	
19-Mar-25	OFFSITE GROUNDWATER	BA-LA-140	<	7.2	
19-Mar-25	OFFSITE GROUNDWATER	H-3	<	177.0	
28-May-25	OFFSITE GROUNDWATER	MN-54	<	3.0	
28-May-25	OFFSITE GROUNDWATER	CO-58	<	4.1	
28-May-25	OFFSITE GROUNDWATER	FE-59	<	10.9	
28-May-25	OFFSITE GROUNDWATER	CO-60	<	5.7	
28-May-25	OFFSITE GROUNDWATER	ZN-65	<	6.1	
28-May-25	OFFSITE GROUNDWATER	ZR-NB-95	<	3.8	
28-May-25	OFFSITE GROUNDWATER	I-131	<	0.474	
28-May-25	OFFSITE GROUNDWATER	CS-134	<	7.5	
28-May-25	OFFSITE GROUNDWATER	CS-137	<	8.8	
28-May-25	OFFSITE GROUNDWATER	BA-LA-140	<	4.1	
28-May-25	OFFSITE GROUNDWATER	H-3	<	181.0	
25-Aug-25	OFFSITE GROUNDWATER	MN-54	<	2.7	
25-Aug-25	OFFSITE GROUNDWATER	CO-58	<	3.3	
25-Aug-25	OFFSITE GROUNDWATER	FE-59	<	4.2	
25-Aug-25	OFFSITE GROUNDWATER	CO-60	<	3.3	
25-Aug-25	OFFSITE GROUNDWATER	ZN-65	<	3.7	
25-Aug-25	OFFSITE GROUNDWATER	ZR-NB-95	<	2.4	
25-Aug-25	OFFSITE GROUNDWATER	I-131	<	0.354	
25-Aug-25	OFFSITE GROUNDWATER	CS-134	<	3.3	
25-Aug-25	OFFSITE GROUNDWATER	CS-137	<	4.2	
25-Aug-25	OFFSITE GROUNDWATER	BA-LA-140	<	2.8	
25-Aug-25	OFFSITE GROUNDWATER	H-3	<	172.0	
09-Dec-25	OFFSITE GROUNDWATER	MN-54	<	2.3	
09-Dec-25	OFFSITE GROUNDWATER	CO-58	<	4.3	
09-Dec-25	OFFSITE GROUNDWATER	FE-59	<	5.1	
09-Dec-25	OFFSITE GROUNDWATER	CO-60	<	5.4	

Exposure Pathway - Waterborne
Ground Water
Location: F-1

Collection Date	Sample Description	Nuclide	Concentration (pCi/Liter)		Duplicate Analysis
09-Dec-25	OFFSITE GROUNDWATER	ZN-65	<	7.7	
09-Dec-25	OFFSITE GROUNDWATER	ZR-NB-95	<	3.2	
09-Dec-25	OFFSITE GROUNDWATER	I-131	<	0.331	
09-Dec-25	OFFSITE GROUNDWATER	CS-134	<	4.2	
09-Dec-25	OFFSITE GROUNDWATER	CS-137	<	5.6	
09-Dec-25	OFFSITE GROUNDWATER	BA-LA-140	<	4.2	
09-Dec-25	OFFSITE GROUNDWATER	H-3	<	173.0	

Exposure Pathway - Waterborne
Ground Water
Location: G-2

Collection Date	Sample Description	Nuclide	Concentration (pCi/Liter)		Duplicate Analysis
19-Mar-25	OFFSITE GROUNDWATER	MN-54	<	5.1	
19-Mar-25	OFFSITE GROUNDWATER	CO-58	<	4.3	
19-Mar-25	OFFSITE GROUNDWATER	FE-59	<	8.2	
19-Mar-25	OFFSITE GROUNDWATER	CO-60	<	5.8	
19-Mar-25	OFFSITE GROUNDWATER	ZN-65	<	12.0	
19-Mar-25	OFFSITE GROUNDWATER	ZR-NB-95	<	6.9	
19-Mar-25	OFFSITE GROUNDWATER	I-131	<	0.342	
19-Mar-25	OFFSITE GROUNDWATER	CS-134	<	10.9	
19-Mar-25	OFFSITE GROUNDWATER	CS-137	<	7.9	
19-Mar-25	OFFSITE GROUNDWATER	BA-LA-140	<	2.5	
19-Mar-25	OFFSITE GROUNDWATER	H-3	<	177.0	
28-May-25	OFFSITE GROUNDWATER	MN-54	<	3.5	
28-May-25	OFFSITE GROUNDWATER	CO-58	<	5.2	
28-May-25	OFFSITE GROUNDWATER	FE-59	<	4.5	
28-May-25	OFFSITE GROUNDWATER	CO-60	<	3.8	
28-May-25	OFFSITE GROUNDWATER	ZN-65	<	5.0	
28-May-25	OFFSITE GROUNDWATER	ZR-NB-95	<	3.4	
28-May-25	OFFSITE GROUNDWATER	I-131	<	0.429	
28-May-25	OFFSITE GROUNDWATER	CS-134	<	5.4	
28-May-25	OFFSITE GROUNDWATER	CS-137	<	5.1	
28-May-25	OFFSITE GROUNDWATER	BA-LA-140	<	3.7	
28-May-25	OFFSITE GROUNDWATER	H-3	<	181.0	
25-Aug-25	OFFSITE GROUNDWATER	MN-54	<	2.4	
25-Aug-25	OFFSITE GROUNDWATER	CO-58	<	1.9	
25-Aug-25	OFFSITE GROUNDWATER	FE-59	<	4.1	
25-Aug-25	OFFSITE GROUNDWATER	CO-60	<	2.2	
25-Aug-25	OFFSITE GROUNDWATER	ZN-65	<	3.7	
25-Aug-25	OFFSITE GROUNDWATER	ZR-NB-95	<	2.5	
25-Aug-25	OFFSITE GROUNDWATER	I-131	<	0.316	
25-Aug-25	OFFSITE GROUNDWATER	CS-134	<	2.9	
25-Aug-25	OFFSITE GROUNDWATER	CS-137	<	2.8	
25-Aug-25	OFFSITE GROUNDWATER	BA-LA-140	<	1.2	
25-Aug-25	OFFSITE GROUNDWATER	H-3	<	172.0	
09-Dec-25	OFFSITE GROUNDWATER	MN-54	<	3.0	
09-Dec-25	OFFSITE GROUNDWATER	CO-58	<	3.8	
09-Dec-25	OFFSITE GROUNDWATER	FE-59	<	3.2	
09-Dec-25	OFFSITE GROUNDWATER	CO-60	<	3.0	

Exposure Pathway - Waterborne
Ground Water
Location: G-2

Collection Date	Sample Description	Nuclide	Concentration (pCi/Liter)		Duplicate Analysis
09-Dec-25	OFFSITE GROUNDWATER	ZN-65	<	5.4	
09-Dec-25	OFFSITE GROUNDWATER	ZR-NB-95	<	3.9	
09-Dec-25	OFFSITE GROUNDWATER	I-131	<	0.198	
09-Dec-25	OFFSITE GROUNDWATER	CS-134	<	3.5	
09-Dec-25	OFFSITE GROUNDWATER	CS-137	<	2.1	
09-Dec-25	OFFSITE GROUNDWATER	BA-LA-140	<	2.0	
09-Dec-25	OFFSITE GROUNDWATER	H-3	<	173.0	

Exposure Pathway - Waterborne
Ground Water
Location: J-1

Collection Date	Sample Description	Nuclide	Concentration (pCi/Liter)		Duplicate Analysis
19-Mar-25	OFFSITE GROUNDWATER	MN-54	<	4.6	
19-Mar-25	OFFSITE GROUNDWATER	CO-58	<	3.0	
19-Mar-25	OFFSITE GROUNDWATER	FE-59	<	10.5	
19-Mar-25	OFFSITE GROUNDWATER	CO-60	<	5.4	
19-Mar-25	OFFSITE GROUNDWATER	ZN-65	<	9.0	
19-Mar-25	OFFSITE GROUNDWATER	ZR-NB-95	<	5.9	
19-Mar-25	OFFSITE GROUNDWATER	I-131	<	0.381	
19-Mar-25	OFFSITE GROUNDWATER	CS-134	<	5.5	
19-Mar-25	OFFSITE GROUNDWATER	CS-137	<	5.3	
19-Mar-25	OFFSITE GROUNDWATER	BA-LA-140	<	6.3	
19-Mar-25	OFFSITE GROUNDWATER	H-3	<	177.0	
28-May-25	OFFSITE GROUNDWATER	MN-54	<	2.9	
28-May-25	OFFSITE GROUNDWATER	CO-58	<	5.8	
28-May-25	OFFSITE GROUNDWATER	FE-59	<	5.4	
28-May-25	OFFSITE GROUNDWATER	CO-60	<	2.6	
28-May-25	OFFSITE GROUNDWATER	ZN-65	<	4.4	
28-May-25	OFFSITE GROUNDWATER	ZR-NB-95	<	3.6	
28-May-25	OFFSITE GROUNDWATER	I-131	<	0.413	
28-May-25	OFFSITE GROUNDWATER	CS-134	<	6.1	
28-May-25	OFFSITE GROUNDWATER	CS-137	<	5.8	
28-May-25	OFFSITE GROUNDWATER	BA-LA-140	<	5.0	
28-May-25	OFFSITE GROUNDWATER	H-3	<	181.0	
25-Aug-25	OFFSITE GROUNDWATER	MN-54	<	3.1	
25-Aug-25	OFFSITE GROUNDWATER	CO-58	<	3.2	
25-Aug-25	OFFSITE GROUNDWATER	FE-59	<	3.9	
25-Aug-25	OFFSITE GROUNDWATER	CO-60	<	2.5	
25-Aug-25	OFFSITE GROUNDWATER	ZN-65	<	5.8	
25-Aug-25	OFFSITE GROUNDWATER	ZR-NB-95	<	2.5	
25-Aug-25	OFFSITE GROUNDWATER	I-131	<	0.329	
25-Aug-25	OFFSITE GROUNDWATER	CS-134	<	3.3	
25-Aug-25	OFFSITE GROUNDWATER	CS-137	<	3.4	
25-Aug-25	OFFSITE GROUNDWATER	BA-LA-140	<	2.7	
25-Aug-25	OFFSITE GROUNDWATER	H-3	<	172.0	
09-Dec-25	OFFSITE GROUNDWATER	MN-54	<	4.2	
09-Dec-25	OFFSITE GROUNDWATER	CO-58	<	2.2	
09-Dec-25	OFFSITE GROUNDWATER	FE-59	<	5.3	
09-Dec-25	OFFSITE GROUNDWATER	CO-60	<	4.2	

Exposure Pathway - Waterborne
Ground Water
Location: J-1

Collection Date	Sample Description	Nuclide	Concentration (pCi/Liter)		Duplicate Analysis
09-Dec-25	OFFSITE GROUNDWATER	ZN-65	<	6.7	
09-Dec-25	OFFSITE GROUNDWATER	ZR-NB-95	<	3.4	
09-Dec-25	OFFSITE GROUNDWATER	I-131	<	0.214	
09-Dec-25	OFFSITE GROUNDWATER	CS-134	<	3.9	
09-Dec-25	OFFSITE GROUNDWATER	CS-137	<	5.7	
09-Dec-25	OFFSITE GROUNDWATER	BA-LA-140	<	2.1	
09-Dec-25	OFFSITE GROUNDWATER	H-3	<	173.0	

Exposure Pathway - Waterborne
Ground Water
Location: J-2

Collection Date	Sample Description	Nuclide	Concentration (pCi/Liter)		Duplicate Analysis
19-Mar-25	OFFSITE GROUNDWATER	MN-54	<	5.4	
19-Mar-25	OFFSITE GROUNDWATER	CO-58	<	5.7	
19-Mar-25	OFFSITE GROUNDWATER	FE-59	<	13.2	
19-Mar-25	OFFSITE GROUNDWATER	CO-60	<	8.1	
19-Mar-25	OFFSITE GROUNDWATER	ZN-65	<	20.1	
19-Mar-25	OFFSITE GROUNDWATER	ZR-NB-95	<	8.5	
19-Mar-25	OFFSITE GROUNDWATER	I-131	<	0.401	
19-Mar-25	OFFSITE GROUNDWATER	CS-134	<	11.8	
19-Mar-25	OFFSITE GROUNDWATER	CS-137	<	6.2	
19-Mar-25	OFFSITE GROUNDWATER	BA-LA-140	<	9.8	
19-Mar-25	OFFSITE GROUNDWATER	H-3	<	177.0	
28-May-25	OFFSITE GROUNDWATER	MN-54	<	3.4	
28-May-25	OFFSITE GROUNDWATER	CO-58	<	3.1	
28-May-25	OFFSITE GROUNDWATER	FE-59	<	7.6	
28-May-25	OFFSITE GROUNDWATER	CO-60	<	6.6	
28-May-25	OFFSITE GROUNDWATER	ZN-65	<	8.3	
28-May-25	OFFSITE GROUNDWATER	ZR-NB-95	<	3.8	
28-May-25	OFFSITE GROUNDWATER	I-131	<	0.411	
28-May-25	OFFSITE GROUNDWATER	CS-134	<	6.2	
28-May-25	OFFSITE GROUNDWATER	CS-137	<	7.3	
28-May-25	OFFSITE GROUNDWATER	BA-LA-140	<	4.4	
28-May-25	OFFSITE GROUNDWATER	H-3	<	181.0	
25-Aug-25	OFFSITE GROUNDWATER	MN-54	<	2.8	
25-Aug-25	OFFSITE GROUNDWATER	CO-58	<	3.4	
25-Aug-25	OFFSITE GROUNDWATER	FE-59	<	5.0	
25-Aug-25	OFFSITE GROUNDWATER	CO-60	<	3.0	
25-Aug-25	OFFSITE GROUNDWATER	ZN-65	<	8.5	
25-Aug-25	OFFSITE GROUNDWATER	ZR-NB-95	<	3.8	
25-Aug-25	OFFSITE GROUNDWATER	I-131	<	0.283	
25-Aug-25	OFFSITE GROUNDWATER	CS-134	<	3.6	
25-Aug-25	OFFSITE GROUNDWATER	CS-137	<	4.3	
25-Aug-25	OFFSITE GROUNDWATER	BA-LA-140	<	2.6	
25-Aug-25	OFFSITE GROUNDWATER	H-3	<	172.0	
09-Dec-25	OFFSITE GROUNDWATER	MN-54	<	3.1	
09-Dec-25	OFFSITE GROUNDWATER	CO-58	<	3.0	
09-Dec-25	OFFSITE GROUNDWATER	FE-59	<	8.2	
09-Dec-25	OFFSITE GROUNDWATER	CO-60	<	3.5	

Exposure Pathway - Waterborne
Ground Water
Location: J-2

Collection Date	Sample Description	Nuclide	Concentration (pCi/Liter)		Duplicate Analysis
09-Dec-25	OFFSITE GROUNDWATER	ZN-65	<	3.9	
09-Dec-25	OFFSITE GROUNDWATER	ZR-NB-95	<	3.7	
09-Dec-25	OFFSITE GROUNDWATER	I-131	<	0.202	
09-Dec-25	OFFSITE GROUNDWATER	CS-134	<	3.7	
09-Dec-25	OFFSITE GROUNDWATER	CS-137	<	3.2	
09-Dec-25	OFFSITE GROUNDWATER	BA-LA-140	<	2.2	
09-Dec-25	OFFSITE GROUNDWATER	H-3	<	173.0	

Exposure Pathway - Waterborne
Drinking Water
Location: BW-15

Collection Date	Nuclide	Concentration (pCi/Liter)	Duplicate Analysis
09-Jan-25	MN-54	< 3.8	
09-Jan-25	CO-58	< 2.4	
09-Jan-25	FE-59	< 2.4	
09-Jan-25	CO-60	< 1.8	
09-Jan-25	ZN-65	< 6.5	
09-Jan-25	ZR-NB-95	< 3.2	
09-Jan-25	I-131	< 0.282	
09-Jan-25	CS-134	< 3.9	
09-Jan-25	CS-137	< 2.6	
09-Jan-25	BA-LA-140	< 3.4	
09-Jan-25	GROSS BETA	2.242 +/- 0.629	
04-Mar-25	MN-54	< 4.0	
04-Mar-25	CO-58	< 4.1	
04-Mar-25	FE-59	< 5.7	
04-Mar-25	CO-60	< 4.7	
04-Mar-25	ZN-65	< 7.5	
04-Mar-25	ZR-NB-95	< 3.9	
04-Mar-25	I-131	< 0.288	
04-Mar-25	CS-134	< 3.8	
04-Mar-25	CS-137	< 5.2	
04-Mar-25	BA-LA-140	< 2.7	
04-Mar-25	GROSS BETA	2.434 +/- 0.644	
03-Apr-25	MN-54	< 3.6	
03-Apr-25	CO-58	< 4.0	
03-Apr-25	FE-59	< 6.7	
03-Apr-25	CO-60	< 4.8	
03-Apr-25	ZN-65	< 7.3	
03-Apr-25	ZR-NB-95	< 5.1	
03-Apr-25	I-131	< 0.246	
03-Apr-25	CS-134	< 7.6	
03-Apr-25	CS-137	< 8.2	
03-Apr-25	BA-LA-140	< 6.3	
03-Apr-25	GROSS BETA	1.964 +/- 0.627	
08-May-25	MN-54	< 4.0	
08-May-25	CO-58	< 2.8	
08-May-25	FE-59	< 3.4	
08-May-25	CO-60	< 4.0	

Exposure Pathway - Waterborne
Drinking Water
Location: BW-15

Collection Date	Nuclide	Concentration (pCi/Liter)	Duplicate Analysis
08-May-25	ZN-65	< 11.6	
08-May-25	ZR-NB-95	< 4.0	
08-May-25	I-131	< 0.299	
08-May-25	CS-134	< 4.2	
08-May-25	CS-137	< 5.6	
08-May-25	BA-LA-140	< 4.3	
08-May-25	GROSS BETA	1.070 +/- 0.533	
04-Jun-25	MN-54	< 2.8	
04-Jun-25	CO-58	< 3.6	
04-Jun-25	FE-59	< 6.6	
04-Jun-25	CO-60	< 4.9	
04-Jun-25	ZN-65	< 4.9	
04-Jun-25	ZR-NB-95	< 4.0	
04-Jun-25	I-131	< 0.347	
04-Jun-25	CS-134	< 6.6	
04-Jun-25	CS-137	< 6.3	
04-Jun-25	BA-LA-140	< 3.7	
04-Jun-25	GROSS BETA	2.549 +/- 0.654	
01-Jul-25	MN-54	< 3.2	
01-Jul-25	CO-58	< 3.5	
01-Jul-25	FE-59	< 7.1	
01-Jul-25	CO-60	< 4.9	
01-Jul-25	ZN-65	< 4.4	
01-Jul-25	ZR-NB-95	< 2.5	
01-Jul-25	I-131	< 0.309	
01-Jul-25	CS-134	< 5.9	
01-Jul-25	CS-137	< 8.9	
01-Jul-25	BA-LA-140	< 3.5	
01-Jul-25	GROSS BETA	3.174 +/- 0.692	
04-Aug-25	MN-54	< 3.5	
04-Aug-25	CO-58	< 4.7	
04-Aug-25	FE-59	< 7.2	
04-Aug-25	CO-60	< 7.1	
04-Aug-25	ZN-65	< 3.3	
04-Aug-25	ZR-NB-95	< 4.3	
04-Aug-25	I-131	< 0.189	
04-Aug-25	CS-134	< 5.3	

Exposure Pathway - Waterborne
Drinking Water
Location: BW-15

Collection Date	Nuclide	Concentration (pCi/Liter)	Duplicate Analysis
04-Aug-25	CS-137	< 6.4	
04-Aug-25	BA-LA-140	< 3.7	
04-Aug-25	GROSS BETA	2.375 +/- 0.62	
02-Oct-25	MN-54	< 3.3	
02-Oct-25	CO-58	< 4.6	
02-Oct-25	FE-59	< 9.8	
02-Oct-25	CO-60	< 3.7	
02-Oct-25	ZN-65	< 8.5	
02-Oct-25	ZR-NB-95	< 4.4	
02-Oct-25	I-131	< 0.297	
02-Oct-25	CS-134	< 4.6	
02-Oct-25	CS-137	< 6.1	
02-Oct-25	BA-LA-140	< 4.7	
02-Oct-25	GROSS BETA	1.993 +/- 1.029	
03-Nov-25	MN-54	< 3.6	
03-Nov-25	CO-58	< 3.1	
03-Nov-25	FE-59	< 5.4	
03-Nov-25	CO-60	< 4.3	
03-Nov-25	ZN-65	< 5.9	
03-Nov-25	ZR-NB-95	< 3.6	
03-Nov-25	CS-134	< 4.0	
03-Nov-25	CS-137	< 5.4	
03-Nov-25	BA-LA-140	< 0.298	
03-Nov-25	BA-LA-140	< 4.1	
03-Nov-25	GROSS BETA	3.585 +/- 1.18	
02-Dec-25	MN-54	< 4.0	
02-Dec-25	CO-58	< 4.0	
02-Dec-25	CO-60	< 4.7	
02-Dec-25	ZN-65	< 5.0	
02-Dec-25	ZR-NB-95	< 4.7	
02-Dec-25	I-131	< 0.258	
02-Dec-25	CS-134	< 4.0	
02-Dec-25	CS-137	< 4.2	
02-Dec-25	BA-LA-140	< 3.2	
02-Dec-25	GROSS BETA	2.434 +/- 1.12	
02-Dec-25	FE-55	< 4.2	
05-Jan-26	MN-54	< 2.5	

Exposure Pathway - Waterborne
Drinking Water
Location: BW-15

Collection Date	Nuclide	Concentration (pCi/Liter)	Duplicate Analysis
05-Jan-26	CO-58	< 3.1	
05-Jan-26	FE-59	< 5.6	
05-Jan-26	CO-60	< 3.7	
05-Jan-26	ZN-65	< 2.8	
05-Jan-26	ZR-NB-95	< 2.9	
05-Jan-26	I-131	< 0.324	
05-Jan-26	CS-134	< 3.6	
05-Jan-26	CS-137	< 5.1	
05-Jan-26	BA-LA-140	< 1.3	
05-Jan-26	GROSS BETA	1.637 +/- 0.974	

Exposure Pathway - Waterborne
Drinking Water
Location: IO-DW

Collection Date	Nuclide	Concentration (pCi/Liter)	Duplicate Analysis
09-Jan-25	MN-54	< 1.6	
09-Jan-25	CO-58	< 3.6	
09-Jan-25	FE-59	< 3.6	
09-Jan-25	CO-60	< 2.7	
09-Jan-25	ZN-65	< 3.5	
09-Jan-25	ZR-NB-95	< 2.9	
09-Jan-25	I-131	< 0.26	
09-Jan-25	CS-134	< 3.1	
09-Jan-25	CS-137	< 2.9	
09-Jan-25	BA-LA-140	< 2.3	
09-Jan-25	GROSS BETA	3.319 +/- 0.731	
04-Mar-25	MN-54	< 4.4	
04-Mar-25	CO-58	< 3.6	
04-Mar-25	FE-59	< 7.4	
04-Mar-25	CO-60	< 4.4	
04-Mar-25	ZN-65	< 10.7	
04-Mar-25	ZR-NB-95	< 6.3	
04-Mar-25	I-131	< 0.267	
04-Mar-25	CS-134	< 7.9	
04-Mar-25	CS-137	< 5.9	
04-Mar-25	BA-LA-140	< 6.4	
04-Mar-25	GROSS BETA	2.922 +/- 0.718	
03-Apr-25	MN-54	< 4.6	
03-Apr-25	CO-58	< 3.5	
03-Apr-25	FE-59	< 6.4	
03-Apr-25	CO-60	< 5.2	
03-Apr-25	ZN-65	< 2.9	
03-Apr-25	ZR-NB-95	< 6.2	
03-Apr-25	I-131	< 0.3	
03-Apr-25	CS-134	< 5.6	
03-Apr-25	CS-137	< 7.2	
03-Apr-25	BA-LA-140	< 3.5	
03-Apr-25	GROSS BETA	2.414 +/- 0.652	
08-May-25	MN-54	< 5.5	
08-May-25	CO-58	< 5.8	
08-May-25	FE-59	< 10.0	
08-May-25	CO-60	< 6.7	

Exposure Pathway - Waterborne
Drinking Water
Location: IO-DW

Collection Date	Nuclide	Concentration (pCi/Liter)	Duplicate Analysis
08-May-25	ZN-65	< 11.3	
08-May-25	ZR-NB-95	< 3.6	
08-May-25	I-131	< 0.299	
08-May-25	CS-134	< 7.8	
08-May-25	CS-137	< 9.5	
08-May-25	BA-LA-140	< 7.4	
08-May-25	GROSS BETA	2.390 +/- 0.674	
04-Jun-25	MN-54	< 3.6	
04-Jun-25	CO-58	< 4.7	
04-Jun-25	FE-59	< 4.3	
04-Jun-25	CO-60	< 2.7	
04-Jun-25	ZN-65	< 4.7	
04-Jun-25	ZR-NB-95	< 4.1	
04-Jun-25	I-131	< 0.4	
04-Jun-25	CS-134	< 5.5	
04-Jun-25	CS-137	< 6.5	
04-Jun-25	BA-LA-140	< 3.5	
04-Jun-25	GROSS BETA	2.870 +/- 0.716	
01-Jul-25	MN-54	< 1.7	
01-Jul-25	CO-58	< 4.4	
01-Jul-25	FE-59	< 4.6	
01-Jul-25	CO-60	< 2.5	
01-Jul-25	ZN-65	< 4.1	
01-Jul-25	ZR-NB-95	< 4.7	
01-Jul-25	I-131	< 0.326	
01-Jul-25	CS-134	< 2.8	
01-Jul-25	CS-137	< 5.7	
01-Jul-25	BA-LA-140	< 3.2	
01-Jul-25	GROSS BETA	2.302 +/- 0.611	
04-Aug-25	MN-54	< 3.6	
04-Aug-25	CO-58	< 3.8	
04-Aug-25	FE-59	< 6.2	
04-Aug-25	CO-60	< 3.2	
04-Aug-25	ZN-65	< 5.9	
04-Aug-25	ZR-NB-95	< 3.4	
04-Aug-25	I-131	< 0.197	
04-Aug-25	CS-134	< 4.7	

Exposure Pathway - Waterborne
Drinking Water
Location: IO-DW

Collection Date	Nuclide	Concentration (pCi/Liter)	Duplicate Analysis
04-Aug-25	CS-137	< 5.1	
04-Aug-25	BA-LA-140	< 3.3	
04-Aug-25	GROSS BETA	2.693 +/- 0.66	
02-Oct-25	MN-54	< 1.7	
02-Oct-25	CO-58	< 2.5	
02-Oct-25	FE-59	< 2.4	
02-Oct-25	CO-60	< 1.6	
02-Oct-25	ZN-65	< 4.4	
02-Oct-25	ZR-NB-95	< 2.3	
02-Oct-25	I-131	< 0.307	
02-Oct-25	CS-134	< 2.2	
02-Oct-25	CS-137	< 2.2	
02-Oct-25	BA-LA-140	< 1.5	
02-Oct-25	GROSS BETA	2.201 +/- 0.638	
03-Nov-25	MN-54	< 3.3	
03-Nov-25	CO-58	< 3.8	
03-Nov-25	FE-59	< 4.4	
03-Nov-25	CO-60	< 2.8	
03-Nov-25	ZN-65	< 7.1	
03-Nov-25	ZR-NB-95	< 2.7	
03-Nov-25	I-131	< 0.315	
03-Nov-25	CS-134	< 3.4	
03-Nov-25	CS-137	< 2.2	
03-Nov-25	BA-LA-140	< 1.3	
03-Nov-25	GROSS BETA	2.553 +/- 1.1	
02-Dec-25	MN-54	< 2.2	
02-Dec-25	CO-58	< 3.0	
02-Dec-25	FE-59	< 7.0	
02-Dec-25	CO-60	< 4.7	
02-Dec-25	ZN-65	< 6.4	
02-Dec-25	ZR-NB-95	< 2.5	
02-Dec-25	I-131	< 0.254	
02-Dec-25	CS-134	< 3.9	
02-Dec-25	CS-137	< 3.8	
02-Dec-25	BA-LA-140	< 3.6	
02-Dec-25	GROSS BETA	2.032 +/- 1.03	
05-Jan-26	MN-54	< 2.1	

Exposure Pathway - Waterborne
Drinking Water
Location: IO-DW

Collection Date	Nuclide	Concentration (pCi/Liter)	Duplicate Analysis
05-Jan-26	CO-58	< 2.7	
05-Jan-26	FE-59	< 2.9	
05-Jan-26	CO-60	< 2.0	
05-Jan-26	ZN-65	< 5.1	
05-Jan-26	ZR-NB-95	< 2.3	
05-Jan-26	I-131	< 0.315	
05-Jan-26	CS-134	< 2.4	
05-Jan-26	CS-137	< 2.8	
05-Jan-26	BA-LA-140	< 1.8	
05-Jan-26	GROSS BETA	2.225 +/- 1.12	

Exposure Pathway - Waterborne
Drinking Water
Quarterly Tritium Analysis
Location: BW-15

Collection Date	Nuclide	Concentration (pCi/Liter)		Duplicate Analysis
09-Jan-25	H-3	<	181	
03-Apr-25	H-3	<	182	
02-Oct-25	H-3	<	172	
05-Jan-26	H-3	<	177	

Exposure Pathway - Waterborne
Drinking Water
Quarterly Tritium Analysis
Location: IO-DW

Collection Date	Nuclide	Concentration (pCi/Liter)		Duplicate Analysis
09-Jan-25	H-3	<	181	
03-Apr-25	H-3	<	182	
02-Oct-25	H-3	<	172	
05-Jan-26	H-3	<	177	

Exposure Pathway - Waterborne
Shoreline Sediment
Location: DC

Collection Date	Sample Description	Nuclide	Concentration (pCi/Kg Dry)		Duplicate Analysis
09-Jun-25	SHORELINE SEDIMENT	K-40	6,368.9	+/- 758.1	
09-Jun-25	SHORELINE SEDIMENT	K-40	6,368.9	+/- 758.1	
09-Jun-25	SHORELINE SEDIMENT	MN-54	<	20.6	
09-Jun-25	SHORELINE SEDIMENT	MN-54	<	20.6	
09-Jun-25	SHORELINE SEDIMENT	CO-58	<	15.9	
09-Jun-25	SHORELINE SEDIMENT	CO-58	<	15.9	
09-Jun-25	SHORELINE SEDIMENT	FE-59	<	32.0	
09-Jun-25	SHORELINE SEDIMENT	FE-59	<	32.0	
09-Jun-25	SHORELINE SEDIMENT	CO-60	<	20.0	
09-Jun-25	SHORELINE SEDIMENT	CO-60	<	20.0	
09-Jun-25	SHORELINE SEDIMENT	ZN-65	<	62.0	
09-Jun-25	SHORELINE SEDIMENT	ZN-65	<	62.0	
09-Jun-25	SHORELINE SEDIMENT	CS-134	<	33.5	
09-Jun-25	SHORELINE SEDIMENT	CS-134	<	33.5	
09-Jun-25	SHORELINE SEDIMENT	CS-137	<	22.9	
09-Jun-25	SHORELINE SEDIMENT	CS-137	<	22.9	
10-Sep-25	SHORELINE SEDIMENT	K-40	9,619.7	+/- 573.0	
10-Sep-25	SHORELINE SEDIMENT	MN-54	<	21.3	
10-Sep-25	SHORELINE SEDIMENT	CO-58	<	38.2	
10-Sep-25	SHORELINE SEDIMENT	FE-59	<	37.7	
10-Sep-25	SHORELINE SEDIMENT	CO-60	<	15.5	
10-Sep-25	SHORELINE SEDIMENT	ZN-65	<	38.3	
10-Sep-25	SHORELINE SEDIMENT	CS-134	<	19.1	
10-Sep-25	SHORELINE SEDIMENT	CS-137	<	17.3	

Exposure Pathway - Waterborne
Shoreline Sediment
Location: EEA

Collection Date	Sample Description	Nuclide	Concentration (pCi/Kg Dry)		Duplicate Analysis
17-Oct-25	SHORLELINE	K-40	12,300.0 +/-	380.0	
17-Oct-25	SHORLELINE	MN-54	<	19.2	
17-Oct-25	SHORLELINE	CO-58	<	34.4	
17-Oct-25	SHORLELINE	FE-59	<	216.0	
17-Oct-25	SHORLELINE	CO-60	<	6.7	
17-Oct-25	SHORLELINE	ZN-65	<	39.1	
17-Oct-25	SHORLELINE	CS-134	<	10.8	
17-Oct-25	SHORLELINE	CS-134	<	11.4	

Exposure Pathway - Waterborne
Shoreline Sediment
Location: JRR

Collection Date	Sample Description	Nuclide	Concentration (pCi/Kg Dry)		Duplicate Analysis
21-Jul-25	SHORELINE SEDIMENT	K-40	9,594.2 +/-	539.9	
21-Jul-25	SHORELINE SEDIMENT	MN-54	<	32.7	
21-Jul-25	SHORELINE SEDIMENT	CO-58	<	59.1	
21-Jul-25	SHORELINE SEDIMENT	FE-59	<	170.6	
21-Jul-25	SHORELINE SEDIMENT	CO-60	<	18.8	
21-Jul-25	SHORELINE SEDIMENT	ZN-65	<	48.8	
21-Jul-25	SHORELINE SEDIMENT	CS-134	<	20.0	
21-Jul-25	SHORELINE SEDIMENT	CS-137	<	22.3	
18-Nov-25	SHORELINE SEDIMENT	K-40	8,300.0 +/-	414.0	
18-Nov-25	SHORELINE SEDIMENT	MN-54	<	22.1	
18-Nov-25	SHORELINE SEDIMENT	CO-58	<	138.0	
18-Nov-25	SHORELINE SEDIMENT	FE-59	<	138.0	
18-Nov-25	SHORELINE SEDIMENT	CO-60	<	16.5	
18-Nov-25	SHORELINE SEDIMENT	ZN-65	<	44.4	
18-Nov-25	SHORELINE SEDIMENT	CS-137	<	18.3	
18-Nov-25	SHORELINE SEDIMENT	CR-51	<	18.6	

Exposure Pathway - Waterborne
Shoreline Sediment
Location: SC

Collection Date	Sample Description	Nuclide	Concentration (pCi/Kg Dry)		Duplicate Analysis
01-Aug-25	SHORELINE SEDIMENT	K-40	10,207.0 +/-	456.9	
01-Aug-25	SHORELINE SEDIMENT	MN-54	<	20.3	
01-Aug-25	SHORELINE SEDIMENT	CO-58	<	35.7	
01-Aug-25	SHORELINE SEDIMENT	FE-59	<	79.3	
01-Aug-25	SHORELINE SEDIMENT	CO-60	<	12.7	
01-Aug-25	SHORELINE SEDIMENT	ZN-65	<	35.6	
01-Aug-25	SHORELINE SEDIMENT	CS-134	<	17.1	
01-Aug-25	SHORELINE SEDIMENT	CS-137	<	12.1	

Exposure Pathway - Ingestion
Fish
Location: CCL

Collection Date	Sample Description	Nuclide	Concentration (pCi/Kg Wet)		Duplicate Analysis
13-May-25	BLUE CATFISH	K-40	3,394.0	+/- 140.9	
13-May-25	BLUE CATFISH	MN-54	<	3.4	
13-May-25	BLUE CATFISH	CO-58	<	6.7	
13-May-25	BLUE CATFISH	FE-59	<	18.4	
13-May-25	BLUE CATFISH	CO-60	<	6.7	
13-May-25	BLUE CATFISH	ZN-65	<	14.7	
13-May-25	BLUE CATFISH	I-131	<	95.6	
13-May-25	BLUE CATFISH	CS-134	<	5.8	
13-May-25	BLUE CATFISH	CS-137	<	7.2	
13-May-25	BLUE CATFISH	H-3	9,103.0	+/- 280.0	
13-May-25	CHANNEL CATFISH	K-40	3,257.4	+/- 128.1	
13-May-25	CHANNEL CATFISH	MN-54	<	3.6	
13-May-25	CHANNEL CATFISH	CO-58	<	4.2	
13-May-25	CHANNEL CATFISH	FE-59	<	11.0	
13-May-25	CHANNEL CATFISH	CO-60	<	6.6	
13-May-25	CHANNEL CATFISH	ZN-65	<	10.1	
13-May-25	CHANNEL CATFISH	I-131	<	95.9	
13-May-25	CHANNEL CATFISH	CS-134	<	5.2	
13-May-25	CHANNEL CATFISH	CS-137	<	6.7	
13-May-25	CHANNEL CATFISH	H-3	7,611.0	+/- 255.0	
13-May-25	COMMON CARP	K-40	3,300.6	+/- 132.5	
13-May-25	COMMON CARP	MN-54	<	5.1	
13-May-25	COMMON CARP	CO-58	<	6.8	
13-May-25	COMMON CARP	FE-59	<	17.1	
13-May-25	COMMON CARP	CO-60	<	8.0	
13-May-25	COMMON CARP	ZN-65	<	11.9	
13-May-25	COMMON CARP	I-131	<	82.2	
13-May-25	COMMON CARP	CS-134	<	5.6	
13-May-25	COMMON CARP	CS-137	<	6.6	
13-May-25	COMMON CARP	H-3	9,616.0	+/- 282.0	
13-May-25	FRESHWATER DRUM	K-40	3,422.2	+/- 135.8	
13-May-25	FRESHWATER DRUM	MN-54	<	4.5	
13-May-25	FRESHWATER DRUM	CO-58	<	7.1	
13-May-25	FRESHWATER DRUM	FE-59	<	15.2	
13-May-25	FRESHWATER DRUM	CO-60	<	5.2	
13-May-25	FRESHWATER DRUM	ZN-65	<	11.7	
13-May-25	FRESHWATER DRUM	I-131	<	81.4	

Exposure Pathway - Ingestion
Fish
Location: CCL

Collection Date	Sample Description	Nuclide	Concentration (pCi/Kg Wet)		Duplicate Analysis
13-May-25	FRESHWATER DRUM	CS-134	<	4.7	
13-May-25	FRESHWATER DRUM	CS-137	<	5.1	
13-May-25	FRESHWATER DRUM	H-3	9,924.0 +/-	291.0	
13-May-25	SMALLMOUTH BUFFALO	K-40	3,153.0 +/-	163.2	
13-May-25	SMALLMOUTH BUFFALO	MN-54	<	4.7	
13-May-25	SMALLMOUTH BUFFALO	CO-58	<	6.6	
13-May-25	SMALLMOUTH BUFFALO	FE-59	<	16.7	
13-May-25	SMALLMOUTH BUFFALO	CO-60	<	5.8	
13-May-25	SMALLMOUTH BUFFALO	ZN-65	<	12.6	
13-May-25	SMALLMOUTH BUFFALO	I-131	<	93.3	
13-May-25	SMALLMOUTH BUFFALO	CS-134	<	4.7	
13-May-25	SMALLMOUTH BUFFALO	CS-137	<	5.2	
13-May-25	SMALLMOUTH BUFFALO	H-3	9,003.0 +/-	273.0	
03-Nov-25	BLUE CATFISH	K-40	2,860.0 +/-	90.5	
03-Nov-25	BLUE CATFISH	MN-54	<	2.8	
03-Nov-25	BLUE CATFISH	CO-58	<	4.3	
03-Nov-25	BLUE CATFISH	FE-59	<	7.1	
03-Nov-25	BLUE CATFISH	CO-60	<	3.2	
03-Nov-25	BLUE CATFISH	ZN-65	<	6.2	
03-Nov-25	BLUE CATFISH	I-131	<	42.8	
03-Nov-25	BLUE CATFISH	CS-134	<	2.7	
03-Nov-25	BLUE CATFISH	CS-137	<	3.0	
03-Nov-25	BLUE CATFISH	H-3	9,103.0 +/-	270.0	
03-Nov-25	CHANNEL CATFISH	K-40	3,950.0 +/-	85.2	
03-Nov-25	CHANNEL CATFISH	MN-54	<	2.8	
03-Nov-25	CHANNEL CATFISH	CO-58	<	3.8	
03-Nov-25	CHANNEL CATFISH	FE-59	<	12.6	
03-Nov-25	CHANNEL CATFISH	CO-60	<	3.7	
03-Nov-25	CHANNEL CATFISH	ZN-65	<	8.4	
03-Nov-25	CHANNEL CATFISH	I-131	<	90.4	
03-Nov-25	CHANNEL CATFISH	CS-134	<	2.9	
03-Nov-25	CHANNEL CATFISH	CS-137	<	2.7	
03-Nov-25	CHANNEL CATFISH	H-3	9,328.0 +/-	277.0	
03-Nov-25	RIVER CARPSUCKER	K-40	3,490.0 +/-	72.5	
03-Nov-25	RIVER CARPSUCKER	MN-54	<	2.5	
03-Nov-25	RIVER CARPSUCKER	CO-58	<	4.1	
03-Nov-25	RIVER CARPSUCKER	FE-59	<	11.1	

Exposure Pathway - Ingestion
Fish
Location: CCL

Collection Date	Sample Description	Nuclide	Concentration (pCi/Kg Wet)		Duplicate Analysis
03-Nov-25	RIVER CARPSUCKER	CO-60	<	3.0	
03-Nov-25	RIVER CARPSUCKER	ZN-65	<	7.4	
03-Nov-25	RIVER CARPSUCKER	I-131	<	94.1	
03-Nov-25	RIVER CARPSUCKER	CS-134	<	2.5	
03-Nov-25	RIVER CARPSUCKER	CS-137	<	2.8	
03-Nov-25	RIVER CARPSUCKER	H-3	7,151.0 +/-	236.0	
03-Nov-25	WALLEY	K-40	3,260.0 +/-	95.2	
03-Nov-25	WALLEY	MN-54	<	2.4	
03-Nov-25	WALLEY	CO-58	<	2.4	
03-Nov-25	WALLEY	FE-59	<	12.7	
03-Nov-25	WALLEY	CO-60	<	3.5	
03-Nov-25	WALLEY	ZN-65	<	8.7	
03-Nov-25	WALLEY	I-131	<	44.2	
03-Nov-25	WALLEY	CS-134	<	2.8	
03-Nov-25	WALLEY	CS-137	<	2.7	
03-Nov-25	WALLEY	H-3	9,032.0 +/-	140.0	
03-Nov-25	WHITE BASS	K-40	3,490.0 +/-	80.0	
03-Nov-25	WHITE BASS	MN-54	<	3.3	
03-Nov-25	WHITE BASS	CO-58	<	4.1	
03-Nov-25	WHITE BASS	FE-59	<	9.2	
03-Nov-25	WHITE BASS	CO-60	<	4.1	
03-Nov-25	WHITE BASS	ZN-65	<	7.2	
03-Nov-25	WHITE BASS	I-131	<	85.3	
03-Nov-25	WHITE BASS	CS-134	<	3.1	
03-Nov-25	WHITE BASS	CS-137	<	3.9	
03-Nov-25	WHITE BASS	H-3	7,773.0 +/-	142.0	

Exposure Pathway - Ingestion
Fish
Location: JRR

Collection Date	Sample Description	Nuclide	Concentration (pCi/Kg Wet)		Duplicate Analysis
11-Jun-25	CHANNEL CATFISH	K-40	4,292.8 +/-	618.1	
11-Jun-25	CHANNEL CATFISH	MN-54	<	15.9	
11-Jun-25	CHANNEL CATFISH	CO-58	<	14.9	
11-Jun-25	CHANNEL CATFISH	FE-59	<	44.8	
11-Jun-25	CHANNEL CATFISH	CO-60	<	18.1	
11-Jun-25	CHANNEL CATFISH	ZN-65	<	42.0	
11-Jun-25	CHANNEL CATFISH	I-131	<	22.7	
11-Jun-25	CHANNEL CATFISH	CS-134	<	17.3	
11-Jun-25	CHANNEL CATFISH	CS-137	<	21.7	
11-Jun-25	CHANNEL CATFISH	H-3	<	143.0	
11-Jun-25	COMMON CARP	K-40	3,605.0 +/-	401.0	
11-Jun-25	COMMON CARP	MN-54	<	12.2	
11-Jun-25	COMMON CARP	CO-58	<	8.1	
11-Jun-25	COMMON CARP	FE-59	<	23.1	
11-Jun-25	COMMON CARP	CO-60	<	9.8	
11-Jun-25	COMMON CARP	ZN-65	<	20.4	
11-Jun-25	COMMON CARP	I-131	<	22.3	
11-Jun-25	COMMON CARP	CS-134	<	15.3	
11-Jun-25	COMMON CARP	CS-137	<	11.3	
11-Jun-25	COMMON CARP	H-3	<	139.0	
11-Jun-25	CRAPPIE	K-40	4,401.5 +/-	660.0	
11-Jun-25	CRAPPIE	MN-54	<	19.8	
11-Jun-25	CRAPPIE	CO-58	<	19.9	
11-Jun-25	CRAPPIE	FE-59	<	32.0	
11-Jun-25	CRAPPIE	CO-60	<	31.4	
11-Jun-25	CRAPPIE	ZN-65	<	45.4	
11-Jun-25	CRAPPIE	I-131	<	60.4	
11-Jun-25	CRAPPIE	CS-134	<	28.5	
11-Jun-25	CRAPPIE	CS-137	<	27.5	
11-Jun-25	CRAPPIE	H-3	<	143.0	
11-Jun-25	GRASS CARP	K-40	3,316.8 +/-	512.5	
11-Jun-25	GRASS CARP	MN-54	<	18.0	
11-Jun-25	GRASS CARP	CO-58	<	18.9	
11-Jun-25	GRASS CARP	FE-59	<	15.0	
11-Jun-25	GRASS CARP	CO-60	<	20.5	
11-Jun-25	GRASS CARP	ZN-65	<	18.5	
11-Jun-25	GRASS CARP	I-131	<	51.5	

Exposure Pathway - Ingestion
Fish
Location: JRR

Collection Date	Sample Description	Nuclide	Concentration (pCi/Kg Wet)		Duplicate Analysis
11-Jun-25	GRASS CARP	CS-134	<	23.0	
11-Jun-25	GRASS CARP	CS-137	<	23.1	
11-Jun-25	GRASS CARP	H-3	<	137.0	
11-Jun-25	SMALLMOUTH BUFFALO	K-40	3,799.9 +/-	425.3	
11-Jun-25	SMALLMOUTH BUFFALO	MN-54	<	14.1	
11-Jun-25	SMALLMOUTH BUFFALO	CO-58	<	14.1	
11-Jun-25	SMALLMOUTH BUFFALO	FE-59	<	26.7	
11-Jun-25	SMALLMOUTH BUFFALO	CO-60	<	15.5	
11-Jun-25	SMALLMOUTH BUFFALO	ZN-65	<	23.7	
11-Jun-25	SMALLMOUTH BUFFALO	I-131	<	43.2	
11-Jun-25	SMALLMOUTH BUFFALO	CS-134	<	17.9	
11-Jun-25	SMALLMOUTH BUFFALO	CS-137	<	18.6	
11-Jun-25	SMALLMOUTH BUFFALO	H-3	<	139.0	
11-Jun-25	WHITE BASS	K-40	3,641.7 +/-	511.8	
11-Jun-25	WHITE BASS	MN-54	<	19.2	
11-Jun-25	WHITE BASS	CO-58	<	9.0	
11-Jun-25	WHITE BASS	FE-59	<	41.1	
11-Jun-25	WHITE BASS	CO-60	<	11.4	
11-Jun-25	WHITE BASS	ZN-65	<	26.3	
11-Jun-25	WHITE BASS	I-131	<	33.5	
11-Jun-25	WHITE BASS	CS-134	<	19.4	
11-Jun-25	WHITE BASS	CS-137	<	11.3	
11-Jun-25	WHITE BASS	H-3	<	141.0	
01-Oct-25	BLUE CATFISH	K-40	2,935.9 +/-	306.4	
01-Oct-25	BLUE CATFISH	MN-54	<	8.0	
01-Oct-25	BLUE CATFISH	CO-58	<	13.2	
01-Oct-25	BLUE CATFISH	FE-59	<	16.5	
01-Oct-25	BLUE CATFISH	CO-60	<	9.7	
01-Oct-25	BLUE CATFISH	ZN-65	<	32.9	
01-Oct-25	BLUE CATFISH	I-131	<	43.4	
01-Oct-25	BLUE CATFISH	CS-134	<	11.1	
01-Oct-25	BLUE CATFISH	CS-137	<	14.0	
01-Oct-25	BLUE CATFISH	H-3	<	126.0	
01-Oct-25	CHANNEL CATFISH	K-40	3,446.6 +/-	264.6	
01-Oct-25	CHANNEL CATFISH	MN-54	<	7.0	
01-Oct-25	CHANNEL CATFISH	CO-58	<	10.5	
01-Oct-25	CHANNEL CATFISH	CO-60	<	4.9	

Exposure Pathway - Ingestion
Fish
Location: JRR

Collection Date	Sample Description	Nuclide	Concentration (pCi/Kg Wet)		Duplicate Analysis
01-Oct-25	CHANNEL CATFISH	ZN-65	<	24.2	
01-Oct-25	CHANNEL CATFISH	I-131	<	43.3	
01-Oct-25	CHANNEL CATFISH	CS-134	<	8.2	
01-Oct-25	CHANNEL CATFISH	CS-137	<	5.0	
01-Oct-25	CHANNEL CATFISH	H-3	<	140.0	
01-Oct-25	CHANNEL CATFISH	FE-55	<	14.8	
01-Oct-25	CRAPPIE	K-40	3,823.1 +/-	381.8	
01-Oct-25	CRAPPIE	MN-54	<	13.8	
01-Oct-25	CRAPPIE	CO-58	<	9.9	
01-Oct-25	CRAPPIE	FE-59	<	35.4	
01-Oct-25	CRAPPIE	CO-60	<	10.3	
01-Oct-25	CRAPPIE	ZN-65	<	40.3	
01-Oct-25	CRAPPIE	I-131	<	70.2	
01-Oct-25	CRAPPIE	CS-134	<	13.6	
01-Oct-25	CRAPPIE	CS-137	<	12.3	
01-Oct-25	CRAPPIE	H-3	<	136.0	
01-Oct-25	WHITE BASS	K-40	3,710.7 +/-	335.2	
01-Oct-25	WHITE BASS	MN-54	<	10.2	
01-Oct-25	WHITE BASS	CO-58	<	10.0	
01-Oct-25	WHITE BASS	FE-59	<	20.8	
01-Oct-25	WHITE BASS	CO-60	<	10.4	
01-Oct-25	WHITE BASS	ZN-65	<	25.3	
01-Oct-25	WHITE BASS	I-131	<	54.6	
01-Oct-25	WHITE BASS	CS-134	<	11.8	
01-Oct-25	WHITE BASS	CS-137	<	10.3	
01-Oct-25	WHITE BASS	H-3	<	128.0	

Exposure Pathway - Ingestion
Food/Garden
Location: A-3

Collection Date	Sample Description	Nuclide	Concentration (pCi/Kg Wet)		Duplicate Analysis
29-May-25	HORSERADISH LEAVES	BE-7	2,745.9	+/- 515.7	
29-May-25	HORSERADISH LEAVES	K-40	7,367.0	+/- 951.3	
29-May-25	HORSERADISH LEAVES	MN-54		< 14.5	
29-May-25	HORSERADISH LEAVES	CO-58		< 30.9	
29-May-25	HORSERADISH LEAVES	CO-60		< 36.9	
29-May-25	HORSERADISH LEAVES	ZN-65		< 43.8	
29-May-25	HORSERADISH LEAVES	ZR-NB-95		< 17.6	
29-May-25	HORSERADISH LEAVES	I-131		< 52.8	
29-May-25	HORSERADISH LEAVES	CS-134		< 23.1	
29-May-25	HORSERADISH LEAVES	CS-137		< 29.8	
19-Jun-25	BROADLEAF	BE-7	1,957.9	+/- 403.3	
19-Jun-25	BROADLEAF	BE-7	1,957.9	+/- 403.3	
19-Jun-25	BROADLEAF	K-40	6,336.4	+/- 979.7	
19-Jun-25	BROADLEAF	K-40	6,336.4	+/- 979.7	
19-Jun-25	BROADLEAF	MN-54		< 18.7	
19-Jun-25	BROADLEAF	MN-54		< 18.7	
19-Jun-25	BROADLEAF	CO-58		< 17.7	
19-Jun-25	BROADLEAF	CO-58		< 17.7	
19-Jun-25	BROADLEAF	CO-60		< 16.2	
19-Jun-25	BROADLEAF	CO-60		< 16.2	
19-Jun-25	BROADLEAF	ZN-65		< 33.1	
19-Jun-25	BROADLEAF	ZN-65		< 33.1	
19-Jun-25	BROADLEAF	ZR-NB-95		< 14.1	
19-Jun-25	BROADLEAF	ZR-NB-95		< 14.1	
19-Jun-25	BROADLEAF	I-131		< 40.4	
19-Jun-25	BROADLEAF	CS-134		< 19.9	
19-Jun-25	BROADLEAF	CS-134		< 19.9	
19-Jun-25	BROADLEAF	CS-137		< 24.5	
19-Jun-25	BROADLEAF	CS-137		< 24.5	
23-Jul-25	HORSERADISH LEAVES	BE-7	798.8	+/- 83.0	
23-Jul-25	HORSERADISH LEAVES	K-40	7,317.9	+/- 272.2	
23-Jul-25	HORSERADISH LEAVES	MN-54		< 8.3	
23-Jul-25	HORSERADISH LEAVES	CO-58		< 6.1	
23-Jul-25	HORSERADISH LEAVES	FE-59		< 12.6	
23-Jul-25	HORSERADISH LEAVES	CO-60		< 5.4	
23-Jul-25	HORSERADISH LEAVES	ZN-65		< 19.1	
23-Jul-25	HORSERADISH LEAVES	ZR-NB-95		< 9.0	

Exposure Pathway - Ingestion
Food/Garden
Location: A-3

Collection Date	Sample Description	Nuclide	Concentration (pCi/Kg Wet)		Duplicate Analysis
23-Jul-25	HORSERADISH LEAVES	I-131	<	15.9	
23-Jul-25	HORSERADISH LEAVES	CS-134	<	8.2	
23-Jul-25	HORSERADISH LEAVES	CS-137	<	5.6	
07-Aug-25	HORSERADISH LEAVES	BE-7	1,199.6 +/-	268.7	
07-Aug-25	HORSERADISH LEAVES	K-40	6,589.1 +/-	788.6	
07-Aug-25	HORSERADISH LEAVES	MN-54	<	17.3	
07-Aug-25	HORSERADISH LEAVES	CO-58	<	20.2	
07-Aug-25	HORSERADISH LEAVES	FE-59	<	45.4	
07-Aug-25	HORSERADISH LEAVES	CO-60	<	13.9	
07-Aug-25	HORSERADISH LEAVES	ZN-65	<	31.4	
07-Aug-25	HORSERADISH LEAVES	ZR-NB-95	<	21.0	
07-Aug-25	HORSERADISH LEAVES	I-131	<	38.9	
07-Aug-25	HORSERADISH LEAVES	CS-134	<	20.9	
07-Aug-25	HORSERADISH LEAVES	CS-137	<	17.0	

Exposure Pathway - Ingestion
Food/Garden
Location: B-1

Collection Date	Sample Description	Nuclide	Concentration (pCi/Kg Wet)		Duplicate Analysis
29-May-25	HORSERADISH LEAVES	BE-7	2,024.2	+/- 482.9	
29-May-25	HORSERADISH LEAVES	K-40	3,714.5	+/- 730.4	
29-May-25	HORSERADISH LEAVES	MN-54		< 24.4	
29-May-25	HORSERADISH LEAVES	CO-58		< 10.7	
29-May-25	HORSERADISH LEAVES	CO-60		< 22.5	
29-May-25	HORSERADISH LEAVES	ZN-65		< 32.0	
29-May-25	HORSERADISH LEAVES	ZR-NB-95		< 30.3	
29-May-25	HORSERADISH LEAVES	I-131		< 38.9	
29-May-25	HORSERADISH LEAVES	CS-134		< 30.5	
29-May-25	HORSERADISH LEAVES	CS-137		< 31.2	
19-Jun-25	BROADLEAF	BE-7	2,219.1	+/- 338.3	
19-Jun-25	BROADLEAF	K-40	5,794.2	+/- 650.9	
19-Jun-25	BROADLEAF	MN-54		< 15.8	
19-Jun-25	BROADLEAF	CO-58		< 14.5	
19-Jun-25	BROADLEAF	CO-60		< 21.5	
19-Jun-25	BROADLEAF	ZN-65		< 32.0	
19-Jun-25	BROADLEAF	ZR-NB-95		< 45.0	
19-Jun-25	BROADLEAF	I-131		< 21.4	
19-Jun-25	BROADLEAF	CS-134		< 21.7	
19-Jun-25	BROADLEAF	CS-137		< 24.2	
23-Jul-25	HORSERADISH LEAVES	BE-7	977.5	+/- 265.6	
23-Jul-25	HORSERADISH LEAVES	K-40	6,363.9	+/- 696.9	
23-Jul-25	HORSERADISH LEAVES	MN-54		< 20.3	
23-Jul-25	HORSERADISH LEAVES	CO-58		< 19.7	
23-Jul-25	HORSERADISH LEAVES	FE-59		< 39.0	
23-Jul-25	HORSERADISH LEAVES	CO-60		< 23.6	
23-Jul-25	HORSERADISH LEAVES	ZN-65		< 31.7	
23-Jul-25	HORSERADISH LEAVES	ZR-NB-95		< 21.2	
23-Jul-25	HORSERADISH LEAVES	I-131		< 39.0	
23-Jul-25	HORSERADISH LEAVES	CS-134		< 27.7	
23-Jul-25	HORSERADISH LEAVES	CS-137		< 14.9	
07-Aug-25	HORSERADISH LEAVES	BE-7	562.3	+/- 307.1	
07-Aug-25	HORSERADISH LEAVES	K-40	488.5	+/- 706.5	
07-Aug-25	HORSERADISH LEAVES	MN-54		< 21.6	
07-Aug-25	HORSERADISH LEAVES	CO-58		< 16.9	
07-Aug-25	HORSERADISH LEAVES	FE-59		< 39.3	
07-Aug-25	HORSERADISH LEAVES	CO-60		< 17.7	

Exposure Pathway - Ingestion
Food/Garden
Location: B-1

Collection Date	Sample Description	Nuclide	Concentration (pCi/Kg Wet)		Duplicate Analysis
07-Aug-25	HORSERADISH LEAVES	ZN-65	<	37.4	
07-Aug-25	HORSERADISH LEAVES	ZR-NB-95	<	21.4	
07-Aug-25	HORSERADISH LEAVES	I-131	<	26.8	
07-Aug-25	HORSERADISH LEAVES	CS-134	<	22.1	
07-Aug-25	HORSERADISH LEAVES	CS-137	<	31.6	

Exposure Pathway - Ingestion
Food/Garden
Location: B-12

Collection Date	Sample Description	Nuclide	Concentration (pCi/Kg Wet)		Duplicate Analysis
19-Jun-25	BROADLEAF	BE-7	2,219.1 +/-	338.3	
19-Jun-25	BROADLEAF	K-40	5,794.2 +/-	650.9	
19-Jun-25	BROADLEAF	MN-54	<	15.8	
19-Jun-25	BROADLEAF	CO-58	<	14.5	
19-Jun-25	BROADLEAF	CO-60	<	21.5	
19-Jun-25	BROADLEAF	ZN-65	<	32.0	
19-Jun-25	BROADLEAF	ZR-NB-95	<	45.0	
19-Jun-25	BROADLEAF	CS-134	<	21.7	
19-Jun-25	BROADLEAF	CS-137	<	24.2	

Exposure Pathway - Ingestion
Food/Garden
Location: D-2

Collection Date	Sample Description	Nuclide	Concentration (pCi/Kg Wet)		Duplicate Analysis
29-May-25	HORSERADISH LEAVES	BE-7	917.4	+/- 216.6	
29-May-25	HORSERADISH LEAVES	K-40	5,870.7	+/- 588.2	
29-May-25	HORSERADISH LEAVES	MN-54		< 11.9	
29-May-25	HORSERADISH LEAVES	CO-58		< 10.2	
29-May-25	HORSERADISH LEAVES	CO-60		< 18.5	
29-May-25	HORSERADISH LEAVES	ZN-65		< 31.6	
29-May-25	HORSERADISH LEAVES	ZR-NB-95		< 16.3	
29-May-25	HORSERADISH LEAVES	I-131		< 32.7	
29-May-25	HORSERADISH LEAVES	CS-134		< 17.5	
29-May-25	HORSERADISH LEAVES	CS-137		< 23.7	
19-Jun-25	BROADLEAF	BE-7	1,540.3	+/- 391.7	
19-Jun-25	BROADLEAF	BE-7	1,540.3	+/- 391.7	
19-Jun-25	BROADLEAF	K-40	5,609.8	+/- 828.4	
19-Jun-25	BROADLEAF	K-40	5,609.8	+/- 828.84	
19-Jun-25	BROADLEAF	MN-54		< 15.9	
19-Jun-25	BROADLEAF	MN-54		< 15.9	
19-Jun-25	BROADLEAF	CO-58		< 13.1	
19-Jun-25	BROADLEAF	CO-58		< 13.1	
19-Jun-25	BROADLEAF	CO-60		< 36.6	
19-Jun-25	BROADLEAF	CO-60		< 36.6	
19-Jun-25	BROADLEAF	ZN-65		< 33.5	
19-Jun-25	BROADLEAF	ZN-65		< 33.5	
19-Jun-25	BROADLEAF	ZR-NB-95		< 19.3	
19-Jun-25	BROADLEAF	ZR-NB-95		< 19.3	
19-Jun-25	BROADLEAF	I-131		< 48.7	
19-Jun-25	BROADLEAF	CS-134		< 25.3	
19-Jun-25	BROADLEAF	CS-134		< 25.3	
19-Jun-25	BROADLEAF	CS-137		< 35.0	
19-Jun-25	BROADLEAF	CS-137		< 35.0	
23-Jul-25	HORSERADISH LEAVES	BE-7	883.4	+/- 184.9	
23-Jul-25	HORSERADISH LEAVES	K-40	5,573.8	+/- 517.4	
23-Jul-25	HORSERADISH LEAVES	MN-54		< 15.7	
23-Jul-25	HORSERADISH LEAVES	CO-58		< 13.3	
23-Jul-25	HORSERADISH LEAVES	FE-59		< 20.4	
23-Jul-25	HORSERADISH LEAVES	CO-60		< 9.9	
23-Jul-25	HORSERADISH LEAVES	ZN-65		< 24.6	
23-Jul-25	HORSERADISH LEAVES	ZR-NB-95		< 10.9	

Exposure Pathway - Ingestion
Food/Garden
Location: D-2

Collection Date	Sample Description	Nuclide	Concentration (pCi/Kg Wet)		Duplicate Analysis
23-Jul-25	HORSERADISH LEAVES	I-131	<	20.5	
23-Jul-25	HORSERADISH LEAVES	CS-134	<	14.0	
23-Jul-25	HORSERADISH LEAVES	CS-137	<	16.1	
07-Aug-25	HORSERADISH LEAVES	BE-7	1,620.0 +/-	365.7	
07-Aug-25	HORSERADISH LEAVES	K-40	6,969.4 +/-	815.2	
07-Aug-25	HORSERADISH LEAVES	MN-54	<	27.0	
07-Aug-25	HORSERADISH LEAVES	CO-58	<	16.7	
07-Aug-25	HORSERADISH LEAVES	FE-59	<	26.9	
07-Aug-25	HORSERADISH LEAVES	CO-60	<	25.6	
07-Aug-25	HORSERADISH LEAVES	ZN-65	<	24.0	
07-Aug-25	HORSERADISH LEAVES	ZR-NB-95	<	25.8	
07-Aug-25	HORSERADISH LEAVES	I-131	<	38.6	
07-Aug-25	HORSERADISH LEAVES	CS-134	<	30.1	
07-Aug-25	HORSERADISH LEAVES	CS-137	<	24.5	

Exposure Pathway - Ingestion
Food/Garden
Location: H-2

Collection Date	Sample Description	Nuclide	Concentration (pCi/Kg Wet)		Duplicate Analysis
19-Jun-25	BROADLEAF	BE-7	1,319.9 +/-	284.7	
19-Jun-25	BROADLEAF	BE-7	1,319.9 +/-	284.7	
19-Jun-25	BROADLEAF	K-40	3,135.9 +/-	432.4	
19-Jun-25	BROADLEAF	K-40	3,135.9 +/-	432.4	
19-Jun-25	BROADLEAF	MN-54	<	11.9	
19-Jun-25	BROADLEAF	MN-54	<	11.9	
19-Jun-25	BROADLEAF	CO-58	<	95.9	
19-Jun-25	BROADLEAF	CO-58	<	95.9	
19-Jun-25	BROADLEAF	CO-60	<	24.4	
19-Jun-25	BROADLEAF	CO-60	<	24.4	
19-Jun-25	BROADLEAF	ZN-65	<	27.9	
19-Jun-25	BROADLEAF	ZN-65	<	27.9	
19-Jun-25	BROADLEAF	ZR-NB-95	<	16.1	
19-Jun-25	BROADLEAF	ZR-NB-95	<	16.1	
19-Jun-25	BROADLEAF	I-131	<	38.8	
19-Jun-25	BROADLEAF	CS-134	<	20.0	
19-Jun-25	BROADLEAF	CS-134	<	20.0	
19-Jun-25	BROADLEAF	CS-137	<	28.0	
19-Jun-25	BROADLEAF	CS-137	<	28.0	

Exposure Pathway - Ingestion
Food/Garden
Location: Q-6

Collection Date	Sample Description	Nuclide	Concentration (pCi/Kg Wet)		Duplicate Analysis
29-May-25	HORSERADISH LEAVES	BE-7	1,095.1	+/- 211.5	
29-May-25	HORSERADISH LEAVES	K-40	3,541.3	+/- 467.9	
29-May-25	HORSERADISH LEAVES	MN-54	<	12.5	
29-May-25	HORSERADISH LEAVES	CO-58	<	10.6	
29-May-25	HORSERADISH LEAVES	CO-60	<	17.3	
29-May-25	HORSERADISH LEAVES	ZN-65	<	17.7	
29-May-25	HORSERADISH LEAVES	ZR-NB-95	<	8.8	
29-May-25	HORSERADISH LEAVES	I-131	<	20.2	
29-May-25	HORSERADISH LEAVES	CS-134	<	15.9	
29-May-25	HORSERADISH LEAVES	CS-137	<	20.0	
19-Jun-25	BROADLEAF	BE-7	2,210.6	+/- 386.1	
19-Jun-25	BROADLEAF	BE-7	2,210.6	+/- 386.1	
19-Jun-25	BROADLEAF	K-40	4,306.6	+/- 770.1	
19-Jun-25	BROADLEAF	K-40	4,306.6	+/- 770.1	
19-Jun-25	BROADLEAF	MN-54	<	21.8	
19-Jun-25	BROADLEAF	MN-54	<	21.8	
19-Jun-25	BROADLEAF	CO-58	<	15.9	
19-Jun-25	BROADLEAF	CO-58	<	15.9	
19-Jun-25	BROADLEAF	CO-60	<	15.7	
19-Jun-25	BROADLEAF	CO-60	<	15.7	
19-Jun-25	BROADLEAF	ZN-65	<	20.6	
19-Jun-25	BROADLEAF	ZN-65	<	20.6	
19-Jun-25	BROADLEAF	ZR-NB-95	<	18.7	
19-Jun-25	BROADLEAF	ZR-NB-95	<	18.7	
19-Jun-25	BROADLEAF	I-131	<	31.0	
19-Jun-25	BROADLEAF	CS-134	<	23.1	
19-Jun-25	BROADLEAF	CS-134	<	23.1	
19-Jun-25	BROADLEAF	CS-137	<	19.4	
19-Jun-25	BROADLEAF	CS-137	<	19.4	
23-Jul-25	HORSERADISH LEAVES	BE-7	780.2	+/- 100.3	
23-Jul-25	HORSERADISH LEAVES	K-40	5,434.6	+/- 180.5	
23-Jul-25	HORSERADISH LEAVES	MN-54	<	6.5	
23-Jul-25	HORSERADISH LEAVES	CO-58	<	5.1	
23-Jul-25	HORSERADISH LEAVES	FE-59	<	7.8	
23-Jul-25	HORSERADISH LEAVES	CO-60	<	8.3	
23-Jul-25	HORSERADISH LEAVES	ZN-65	<	13.4	
23-Jul-25	HORSERADISH LEAVES	ZR-NB-95	<	8.3	

Exposure Pathway - Ingestion
Food/Garden
Location: Q-6

Collection Date	Sample Description	Nuclide	Concentration (pCi/Kg Wet)		Duplicate Analysis
23-Jul-25	HORSERADISH LEAVES	I-131	<	14.8	
23-Jul-25	HORSERADISH LEAVES	CS-134	<	7.0	
23-Jul-25	HORSERADISH LEAVES	CS-137	<	8.8	
07-Aug-25	HORSERADISH LEAVES	BE-7	1,058.5 +/-	216.7	
07-Aug-25	HORSERADISH LEAVES	K-40	5,501.9 +/-	606.0	
07-Aug-25	HORSERADISH LEAVES	MN-54	<	10.0	
07-Aug-25	HORSERADISH LEAVES	CO-58	<	8.8	
07-Aug-25	HORSERADISH LEAVES	FE-59	<	29.9	
07-Aug-25	HORSERADISH LEAVES	CO-60	<	11.8	
07-Aug-25	HORSERADISH LEAVES	ZN-65	<	31.2	
07-Aug-25	HORSERADISH LEAVES	ZR-NB-95	<	13.9	
07-Aug-25	HORSERADISH LEAVES	I-131	<	32.0	
07-Aug-25	HORSERADISH LEAVES	CS-134	<	16.4	
07-Aug-25	HORSERADISH LEAVES	CS-137	<	13.2	

Exposure Pathway - Ingestion
Food/Garden
Location: R-2

Collection Date	Sample Description	Nuclide	Concentration (pCi/Kg Wet)		Duplicate Analysis
29-May-25	HORSERADISH LEAVES	BE-7	1,552.8	+/- 274.1	
29-May-25	HORSERADISH LEAVES	K-40	5,639.1	+/- 820.4	
29-May-25	HORSERADISH LEAVES	MN-54	<	19.1	
29-May-25	HORSERADISH LEAVES	CO-58	<	13.5	
29-May-25	HORSERADISH LEAVES	CO-60	<	14.4	
29-May-25	HORSERADISH LEAVES	ZN-65	<	53.0	
29-May-25	HORSERADISH LEAVES	ZR-NB-95	<	38.8	
29-May-25	HORSERADISH LEAVES	I-131	<	33.1	
29-May-25	HORSERADISH LEAVES	CS-134	<	23.6	
29-May-25	HORSERADISH LEAVES	CS-137	<	10.9	
19-Jun-25	BROADLEAF	BE-7	9,283.5	+/- 259.0	
19-Jun-25	BROADLEAF	BE-7	9,283.5	+/- 259.0	
19-Jun-25	BROADLEAF	K-40	15,990.1	+/- 452.6	
19-Jun-25	BROADLEAF	K-40	15,990.1	+/- 452.6	
19-Jun-25	BROADLEAF	MN-54	<	14.8	
19-Jun-25	BROADLEAF	MN-54	<	14.8	
19-Jun-25	BROADLEAF	CO-58	<	15.5	
19-Jun-25	BROADLEAF	CO-58	<	15.5	
19-Jun-25	BROADLEAF	CO-60	<	16.0	
19-Jun-25	BROADLEAF	CO-60	<	16.0	
19-Jun-25	BROADLEAF	ZN-65	<	29.0	
19-Jun-25	BROADLEAF	ZN-65	<	29.0	
19-Jun-25	BROADLEAF	ZR-NB-95	<	15.1	
19-Jun-25	BROADLEAF	ZR-NB-95	<	15.1	
19-Jun-25	BROADLEAF	I-131	<	23.5	
19-Jun-25	BROADLEAF	CS-134	<	12.2	
19-Jun-25	BROADLEAF	CS-134	<	12.2	
19-Jun-25	BROADLEAF	CS-137	<	11.4	
19-Jun-25	BROADLEAF	CS-137	<	11.4	
23-Jul-25	SUNFLOWER	BE-7	2,267.8	+/- 112.6	
23-Jul-25	SUNFLOWER	K-40	7,565.9	+/- 254.6	
23-Jul-25	SUNFLOWER	MN-54	<	8.8	
23-Jul-25	SUNFLOWER	CO-58	<	8.5	
23-Jul-25	SUNFLOWER	FE-59	<	21.5	
23-Jul-25	SUNFLOWER	CO-60	<	8.9	
23-Jul-25	SUNFLOWER	ZN-65	<	21.4	
23-Jul-25	SUNFLOWER	ZR-NB-95	<	5.7	

Exposure Pathway - Ingestion
Food/Garden
Location: R-2

Collection Date	Sample Description	Nuclide	Concentration (pCi/Kg Wet)		Duplicate Analysis
23-Jul-25	SUNFLOWER	I-131	<	16.2	
23-Jul-25	SUNFLOWER	CS-134	<	7.6	
23-Jul-25	SUNFLOWER	CS-137	<	7.0	
07-Aug-25	SUNFLOWER	BE-7	2,586.0 +/-	363.0	
07-Aug-25	SUNFLOWER	K-40	7,205.1 +/-	735.8	
07-Aug-25	SUNFLOWER	MN-54	<	16.4	
07-Aug-25	SUNFLOWER	CO-58	<	10.1	
07-Aug-25	SUNFLOWER	FE-59	<	50.4	
07-Aug-25	SUNFLOWER	CO-60	<	10.2	
07-Aug-25	SUNFLOWER	ZN-65	<	31.5	
07-Aug-25	SUNFLOWER	ZR-NB-95	<	19.7	
07-Aug-25	SUNFLOWER	I-131	<	24.9	
07-Aug-25	SUNFLOWER	CS-134	<	16.8	
07-Aug-25	SUNFLOWER	CS-137	<	18.8	

Exposure Pathway - Ingestion
Food/Crops
Location: NR-D1

Collection Date	Sample Description	Nuclide	Concentration (pCi/Kg Wet)		Duplicate Analysis
14-Oct-25	NON IRRIGATED CORN	BE-7	<	61.6	
14-Oct-25	NON IRRIGATED CORN	K-40	3,729.9 +/-	245.4	
14-Oct-25	NON IRRIGATED CORN	MN-54	<	7.2	
14-Oct-25	NON IRRIGATED CORN	CO-58	<	6.9	
14-Oct-25	NON IRRIGATED CORN	CO-60	<	9.4	
14-Oct-25	NON IRRIGATED CORN	ZN-65	<	18.6	
14-Oct-25	NON IRRIGATED CORN	ZR-NB-95	<	8.7	
14-Oct-25	NON IRRIGATED CORN	I-131	<	12.6	
14-Oct-25	NON IRRIGATED CORN	CS-134	<	7.4	
14-Oct-25	NON IRRIGATED CORN	CS-137	<	10.2	

Exposure Pathway - Ingestion
Food/Crops
Location: NR-U1

Collection Date	Sample Description	Nuclide	Concentration (pCi/Kg Wet)		Duplicate Analysis
20-Oct-25	NON IRRIGATED CORN	BE-7	<	64.2	
20-Oct-25	NON IRRIGATED CORN	K-40	3,220.0 +/-	239.0	
20-Oct-25	NON IRRIGATED CORN	MN-54	<	5.3	
20-Oct-25	NON IRRIGATED CORN	CO-58	<	3.7	
20-Oct-25	NON IRRIGATED CORN	FE-59	<	13.3	
20-Oct-25	NON IRRIGATED CORN	CO-60	<	7.4	
20-Oct-25	NON IRRIGATED CORN	ZN-65	<	18.1	
20-Oct-25	NON IRRIGATED CORN	ZR-NB-95	<	7.3	
20-Oct-25	NON IRRIGATED CORN	I-131	<	16.2	
20-Oct-25	NON IRRIGATED CORN	CS-134	<	7.1	
20-Oct-25	NON IRRIGATED CORN	CS-137	<	8.7	

Exposure Pathway - Aquatic Vegetation
Location: EEA

Collection Date	Sample Description	Nuclide	Concentration (pCi/Kg Wet)		Duplicate Analysis
04-Aug-25	COONTAIL	BE-7	243.7 +/-	72.9	
04-Aug-25	COONTAIL	K-40	3,002.2 +/-	257.7	
04-Aug-25	COONTAIL	MN-54	<	7.4	
04-Aug-25	COONTAIL	CO-58	<	9.4	
04-Aug-25	COONTAIL	FE-59	<	17.1	
04-Aug-25	COONTAIL	CO-60	<	5.9	
04-Aug-25	COONTAIL	ZN-65	<	10.0	
04-Aug-25	COONTAIL	ZR-NB-95	<	7.7	
04-Aug-25	COONTAIL	I-131	<	7.9	
04-Aug-25	COONTAIL	CS-134	<	7.2	
04-Aug-25	COONTAIL	CS-137	<	9.0	

Exposure Pathway - Aquatic Vegetation
Location: MUDS

Collection Date	Sample Description	Nuclide	Concentration (pCi/Kg Wet)		Duplicate Analysis
27-Aug-25	PONDWEED/NIAD	BE-7	412.5 +/-	43.4	
27-Aug-25	PONDWEED/NIAD	K-40	2,372.7 +/-	71.4	
27-Aug-25	PONDWEED/NIAD	MN-54	<	2.7	
27-Aug-25	PONDWEED/NIAD	CO-58	<	3.6	
27-Aug-25	PONDWEED/NIAD	FE-59	<	6.9	
27-Aug-25	PONDWEED/NIAD	CO-60	<	3.0	
27-Aug-25	PONDWEED/NIAD	ZN-65	<	5.3	
27-Aug-25	PONDWEED/NIAD	ZR-NB-95	<	4.9	
27-Aug-25	PONDWEED/NIAD	I-131	<	35.6	
27-Aug-25	PONDWEED/NIAD	CS-134	<	2.7	
27-Aug-25	PONDWEED/NIAD	CS-137	<	3.3	

Exposure Pathway - Aquatic
Vegetation
Location: SC

Collection Date	Sample Description	Nuclide	Concentration (pCi/Kg Wet)		Duplicate Analysis
01-Aug-25	CATTAIL	BE-7	600.6 +/-	187.3	
01-Aug-25	CATTAIL	K-40	2,601.1 +/-	449.6	
01-Aug-25	CATTAIL	MN-54	<	7.1	
01-Aug-25	CATTAIL	CO-58	<	13.3	
01-Aug-25	CATTAIL	FE-59	<	23.7	
01-Aug-25	CATTAIL	CO-60	<	10.6	
01-Aug-25	CATTAIL	ZN-65	<	28.1	
01-Aug-25	CATTAIL	ZR-NB-95	<	16.3	
01-Aug-25	CATTAIL	I-131	<	27.2	
01-Aug-25	CATTAIL	CS-134	<	16.9	
01-Aug-25	CATTAIL	CS-137	<	19.3	

Exposure Pathway - Aquatic
Bottom Sediment
Location: DC

Collection Date	Sample Description	Nuclide	Concentration (pCi/Kg Dry)		Duplicate Analysis
09-Jun-25	BOTTOM SEDIMENT	K-40	10,539.0	+/- 1,328.0	
09-Jun-25	BOTTOM SEDIMENT	MN-54	<	55.3	
09-Jun-25	BOTTOM SEDIMENT	CO-58	<	42.8	
09-Jun-25	BOTTOM SEDIMENT	FE-59	<	91.6	
09-Jun-25	BOTTOM SEDIMENT	CO-60	<	30.0	
09-Jun-25	BOTTOM SEDIMENT	ZN-65	<	88.0	
09-Jun-25	BOTTOM SEDIMENT	CS-134	<	51.5	
09-Jun-25	BOTTOM SEDIMENT	CS-137	<	67.8	
09-Jun-25	BOTTOM SEDIMENT	FE-55	<	9,587.2	
10-Sep-25	BOTTOM SEDIMENT	K-40	10,589.0	+/- 863.8	
10-Sep-25	BOTTOM SEDIMENT	MN-54	<	28.5	
10-Sep-25	BOTTOM SEDIMENT	CO-58	<	31.8	
10-Sep-25	BOTTOM SEDIMENT	FE-59	<	64.2	
10-Sep-25	BOTTOM SEDIMENT	CO-60	<	30.9	
10-Sep-25	BOTTOM SEDIMENT	ZN-65	<	62.4	
10-Sep-25	BOTTOM SEDIMENT	CS-134	<	37.5	
10-Sep-25	BOTTOM SEDIMENT	CS-137	51.6	+/- 29.0	
10-Sep-25	BOTTOM SEDIMENT	FE-55	<	11,067.6	

Exposure Pathway - Aquatic
Bottom Sediment
Location: EEA

Collection Date	Sample Description	Nuclide	Concentration (pCi/Kg Dry)		Duplicate Analysis
21-Apr-25	BOTTOM SEDIMENT	K-40	10,216.0 +/-	561.7	
21-Apr-25	BOTTOM SEDIMENT	MN-54	<	29.4	
21-Apr-25	BOTTOM SEDIMENT	CO-58	<	26.7	
21-Apr-25	BOTTOM SEDIMENT	FE-59	<	73.9	
21-Apr-25	BOTTOM SEDIMENT	CO-60	<	20.1	
21-Apr-25	BOTTOM SEDIMENT	ZN-65	<	51.7	
21-Apr-25	BOTTOM SEDIMENT	CS-134	<	19.9	
21-Apr-25	BOTTOM SEDIMENT	CS-137	<	24.3	

Exposure Pathway - Aquatic
Bottom Sediment
Location: JRR

Collection Date	Sample Description	Nuclide	Concentration (pCi/Kg Dry)		Duplicate Analysis
21-Jul-25	BOTTOM SEDIMENT	K-40	12,918.0 +/-	948.1	
21-Jul-25	BOTTOM SEDIMENT	MN-54	<	53.1	
21-Jul-25	BOTTOM SEDIMENT	CO-58	<	96.1	
21-Jul-25	BOTTOM SEDIMENT	FE-59	<	35.0	
21-Jul-25	BOTTOM SEDIMENT	CO-60	<	36.2	
21-Jul-25	BOTTOM SEDIMENT	ZN-65	<	92.0	
21-Jul-25	BOTTOM SEDIMENT	CS-134	<	41.4	
21-Jul-25	BOTTOM SEDIMENT	CS-137	96.1 +/-	48.1	
18-Nov-25	BOTTOM SEDIMENT	K-40	15,900.0 +/-	632.0	
18-Nov-25	BOTTOM SEDIMENT	MN-54	<	30.1	
18-Nov-25	BOTTOM SEDIMENT	CO-58	<	57.1	
18-Nov-25	BOTTOM SEDIMENT	FE-59	<	124.0	
18-Nov-25	BOTTOM SEDIMENT	CO-60	<	18.5	
18-Nov-25	BOTTOM SEDIMENT	ZN-65	<	66.1	
18-Nov-25	BOTTOM SEDIMENT	CS-134	<	19.5	
18-Nov-25	BOTTOM SEDIMENT	CS-137	66.6 +/-	22.8	

Exposure Pathway - Terrestrial
Vegetation
Location: EEA

Collection Date	Sample Description	Nuclide	Concentration (pCi/Kg Wet)		Duplicate Analysis
16-Jun-25	GRASS	BE-7	3,403.2 +/-	121.5	
16-Jun-25	GRASS	K-40	7,251.3 +/-	163.0	
16-Jun-25	GRASS	MN-54	<	3.8	
16-Jun-25	GRASS	CO-58	<	7.8	
16-Jun-25	GRASS	FE-59	<	19.2	
16-Jun-25	GRASS	CO-60	<	5.5	
16-Jun-25	GRASS	ZN-65	<	10.9	
16-Jun-25	GRASS	ZR-NB-95	<	10.6	
16-Jun-25	GRASS	I-131	<	161.0	
16-Jun-25	GRASS	CS-134	<	4.7	
16-Jun-25	GRASS	CS-137	<	5.3	

Exposure Pathway - Terrestrial
Vegetation
Location: MUDS

Collection Date	Sample Description	Nuclide	Concentration (pCi/Kg Wet)		Duplicate Analysis
13-Jun-25	GRASS	BE-7	2,002.0 +/-	85.7	
13-Jun-25	GRASS	K-40	2,249.8 +/-	103.0	
13-Jun-25	GRASS	MN-54	<	4.3	
13-Jun-25	GRASS	CO-58	<	3.1	
13-Jun-25	GRASS	FE-59	<	14.6	
13-Jun-25	GRASS	CO-60	<	4.1	
13-Jun-25	GRASS	ZN-65	<	8.0	
13-Jun-25	GRASS	ZR-NB-95	<	7.0	
13-Jun-25	GRASS	I-131	<	54.4	
13-Jun-25	GRASS	CS-134	<	4.1	
13-Jun-25	GRASS	CS-137	<	5.4	

Exposure Pathway - Ingestion
Meat
Location: R3.9

Collection Date	Sample Description	Nuclide	Concentration (pCi/Kg Wet)		Duplicate Analysis
02-May-25	TURKEY	K-40	2,713.5 +/-	127.4	
02-May-25	TURKEY	MN-54	<	4.8	
02-May-25	TURKEY	CO-58	<	4.1	
02-May-25	TURKEY	FE-59	<	9.8	
02-May-25	TURKEY	CO-60	<	5.7	
02-May-25	TURKEY	ZN-65	<	12.2	
02-May-25	TURKEY	I-131	<	73.9	
02-May-25	TURKEY	CS-134	<	4.4	
02-May-25	TURKEY	CS-137	<	4.6	
02-May-25	TURKEY	H-3	<	134.0	

Exposure Pathway - Ingestion
Meat
Location: H1.3

Collection Date	Sample Description	Nuclide	Concentration (pCi/Kg Wet)		Duplicate Analysis
12-Nov-25	DEER MEAT	K-40	2,840.0	+/- 97.3	
12-Nov-25	DEER MEAT	MN-54	<	3.0	
12-Nov-25	DEER MEAT	CO-58	<	2.2	
12-Nov-25	DEER MEAT	FE-59	<	8.0	
12-Nov-25	DEER MEAT	CO-60	<	4.1	
12-Nov-25	DEER MEAT	ZN-65	<	7.1	
12-Nov-25	DEER MEAT	CS-134	<	3.2	
12-Nov-25	DEER MEAT	CS-137	<	4.1	
12-Nov-25	DEER MEAT	H-3	2,586.0	+/- 149.0	

APPENDIX D

LAND USE CENSUS REPORT

WOLF CREEK GENERATING STATION

2025 LAND USE CENSUS REPORT

Prepared by:	Joseph p. Augustyn	2/26/26
	Joseph p. Augustyn	Date
Peer Review:	Craig T. Adkinson	3/2/26
	Craig Adkinson	Date
Approved by:	Daniel C. Michel	3/23/2026
	Daniel Michel	Date

EXECUTIVE SUMMARY

The annual Land Use Census of rural residents within five miles of the Wolf Creek Generating Station (WCGS) has been completed in 2025 in accordance with AP 07B-004, [Offsite Dose Calculation Manual (Radiological Environmental Monitoring Program)].

A change was necessary regarding milk locations. Location J3.80-11RD1626 in 2024 provided a survey showing that they are producing milk for human consumption. The 2025 survey indicates they no longer are producing milk for human consumption.

The two broadleaf vegetation locations with the highest calculated annual average D/Q rankings are A2.60-17TE1527 and Q2.35-MILA1619. Since these gardens are currently listed as sample locations for the Radiological Environmental Monitoring Program in procedure AP 07B-004 (locations A-3 and Q-6), no program changes are necessary regarding broadleaf vegetation locations.

BACKGROUND

Section 5.2, Attachment A, of procedure AP 07B-004, directs that "a Land Use Census shall be conducted annually during the growing season to identify the nearest (1) milk animal, (2) residence, and (3) garden of greater than 500 square feet producing broadleaf vegetation in each of the 16 meteorological sections within five miles of the WCGS site."

Table 5-1, Attachment A, of procedure AP 07B-004, requires that broadleaf vegetation samples be collected from “two indicator locations (using the criteria from the “Land Use Census” section) with highest calculated annual average D/Q.”

Table 5-1, Attachment A, of procedure AP 07B-004, also requires that milk samples be collected from “three indicator locations within 5 miles of the site having the highest dose potential.”

METHODOLOGY

Over two hundred surveys were mailed to the rural residents living within five miles of WCGS. The survey excluded the residents of New Strawn and Burlington. These locations were excluded due to the large number of households and the low likelihood that information gained from these residences would affect the locations chosen for REMP sampling. Drive-by information was collected for the nearest residences in each sector that did not return surveys. Also used Google Earth/Maps to obtain images of properties.

The information collected was compiled and the results are identified in Tables 1-3. Calculations were performed so that garden locations could be ranked by their respective D/Q. These results are contained in Table 4.

RESULTS

One change was identified for the nearest occupied residence in each sector. Seven changes were noted for the nearest garden producing broadleaf vegetation. These changes are identified as an underlined entry in the Tables. There was one change regarding milk sample locations. The property that was producing milk for human consumption in 2024, no longer produce milk for human consumption. According with AP 07B-004 (REMP) Offsite Dose Calculation Manual a sample should be taken semimonthly April-November if available. Discussions with the property are ongoing.

TABLE 1

2025 LAND USE CENSUS DATA

LOCATION OF NEAREST:

SECTOR	RESIDENCE	MILKING ANIMALS	BROADLEAF GARDEN
A	A2.60-17TE1527	None	A2.60-17TE1527
B	B3.53-QURD1755	None	B4.09-18RD1739
C	C1.92-16RD1655	None	C4.89-18RD1859
D	D2.07-QURD1571	None	D2.33-RERD1520
E	E1.78-QULA1451	None	E4.40-TRRD1551
F	F1.84-QULA1419	None	F3.37-14RD1904
G	G2.82-13Rd1790	None	G2.82-13Rd1790
H	H3.09-12RD1711	None	H3.15-QURD1181
J	J3.70-11RD1540	None	J4.37-PLRD1040
K	K2.79-12LA1435	None	None
L	L2.10-NARD1339	None	L2.39-NARD1309
M	M2.34-14RD1346	None	M3.78-LYRD1390
N	N2.08-15RD1350	None	N2.90-HW751440
P	P2.66-16RD1268	None	P4.73-HID335
Q	Q2.35-MILA1619	None	Q2.35-MILA1619
R	R2.08-NALN1650	None	None

NOTE: Entries underlined indicate changes from the 2024 Land Use Census.

EXAMPLE: A2.60-17TE1527
"A" = Sector A
"2.60" = 2.60 miles from the reactor
"17TE1527" = address

TABLE 2

SECTOR	2024 NEAREST RESIDENCE	2025 NEAREST RESIDENCE
A	A2.60-17TE1527	A2.60-17TE1527
B	B3.53-QURD1755	B3.53-QURD1755
C	C1.92-16RD1655	C1.92-16RD1655
D	D2.33-RERD1520	D2.07-QURD1571
E	E1.78-QULA1451	E1.78-QULA1451
F	F1.84-QULA1419	F1.84-QULA1419
G	G2.82-13RD1790	G2.82-13Rd1790
H	H3.09-12RD1711	H3.09-12RD1711
J	J3.70-11RD1540	J3.70-11RD1540
K	K2.79-12LA1435	K2.79-12LA1435
L	L2.10-NARD1339	L2.10-NARD1339
M	M2.34-14RD1346	M2.34-14RD1346
N	N2.08-15RD1350	N2.08-15RD1350
P	P2.66-16RD1268	P2.66-16RD1268
Q	Q2.35-MILA1619	Q2.35-MILA1619
R	R2.08-NALN1650	R2.08-NALN1650

NOTE: Entries underlined indicate changes from the 2024 Land Use Census.

TABLE 3

2024 LAND USE CENSUS MILK AND GARDEN DATA

SECTOR	2024 MILKING ANIMALS	2025 MILKING ANIMALS	2024 NEAREST BROADLEAF GARDEN	2025 NEAREST BROADLEAF GARDEN
A	None	None	A2.60-17TE1527	A2.60-17TE1527
B	None	None	B4.09-18RD1739	B4.09-18RD1739
C	None	None	C4.89-18RD1859	C4.89-18RD1859
D	None	None	D3.18-RERD1618	D2.33-RERD1520
E	None	None	E4.40-TRRD1551	E4.40-TRRD1551
F	None	None	F3.37-14RD1904	F3.37-14RD1904
G	None	None	None	G2.82-13Rd1790
H	None	None	H3.15-QURD1181	H3.15-QURD1181
J	J3.80-11RD1626	None	J3.80-11RD1626	J4.37-PLRD1040
K	None	None	None	None
L	None	None	L2.39-NARD1309	L2.39-NARD1309
M	None	None	M4.52-13RD1151	M3.78-LYRD1390
N	None	None	None	N2.90-HW751440
P	None	None	None	P4.73-HID335
Q	None	None	Q2.35-MILA1619	Q2.35-MILA1619
R	None	None	R4.43-NARD1891	None

NOTE: Underlined entries indicate changes from the 2024 Land Use Census.

TABLE 4

INFORMATION USED FOR D/Q CALCULATIONS ON GARDENS PRODUCING BROADLEAF VEGETATION

FROM LAND USE			FROM SA-19-002					
	DIST	CALC	NEAR	NEAR	FAR	FAR		SECTOR
SECTOR	(MI)	(METERS)	DIST	D / Q	DIST	D / Q	CALC	RANKING
A	2.60	4184	4000	1.77E-09	5000	1.20E-09	1.67E-09	1
B	4.09	6582	6000	4.71E-10	7000	3.50E-10	4.01E-10	7
C	4.89	7870	7000	1.37E-10	8000	1.11E-10	1.14E-10	14
D	2.33	3750	3000	4.67E-10	4000	2.80E-10	3.27E-10	9
E	4.40	7081	7000	1.18E-10	8000	9.55E-11	1.16E-10	13
F	3.37	5423	5000	2.68E-10	6000	1.97E-10	2.38E-10	11
G	2.82	4538	4000	6.62E-10	5000	4.50E-10	5.48E-10	6
H	3.15	5069	5000	6.49E-10	6000	4.77E-10	6.37E-10	4
J	4.37	7033	7000	3.31E-10	8000	2.67E-10	3.29E-10	8
K								
L	2.39	3846	3000	1.53E-09	4000	9.17E-10	1.01E-09	2
M	4.52	7274	7000	2.27E-10	8000	1.83E-10	2.15E-10	12
N	2.9	4667	4000	7.89E-10	5000	5.37E-10	6.21E-10	5
P	4.73	7612	7000	2.79E-10	8000	2.25E-10	2.46E-10	10
Q	2.35	3782	3000	1.46E-09	4000	8.79E-10	1.01E-09	2
R								

*Sector K and R have no broadleaf gardens to report.

Originated by: Joseph E. Hughey Date: 2/26/26

Verified by: Craig T. Atkinson Date: 3/2/26