

BRAIDWOOD STATION
ANNUAL RADIOLOGICAL
ENVIRONMENTAL OPERATING
REPORT

1995

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INTRODUCTION

Braidwood Station, a two-unit PWR station, is located in Will County, Illinois, fifteen (15) miles south-southwest of Joliet, Illinois. Each reactor is designed to have a capacity of 1120 MW net. Unit No. 1 went critical on May 29, 1987, and unit No. 2 went critical on March 8, 1988. The station has been designed to keep releases to the environment at levels below those specified in the regulations.

Liquid effluents from Braidwood Station are released to the Kankakee River in controlled batches after radioassay of each batch. Gaseous effluents are released to the atmosphere and are calculated on the basis of analyses of daily grab samples of noble gases as well as continuously collected composite samples of iodine and particulate radioactivity sampled during the course of the year. The results of effluent analyses are summarized on a monthly basis. Airborne concentrations of noble gases, I-131, and particulate radioactivity in offsite areas are calculated using effluent and meteorological data.

Environmental monitoring is conducted by sampling at indicator and control (background) locations in the vicinity of the Braidwood Station to measure changes in radiation or radioactivity levels that may be attributable to station operations. If significant changes attributable to Braidwood Station are measured, these changes are correlated with effluent releases. External gamma radiation exposure from noble gases and internal dose from I-131 in milk are the most critical pathways at this site; however, an environmental monitoring program is conducted which includes these and other pathways.

ComEd is in the process of implementing a Uniform Radiological Environmental Monitoring Program, referred to as UREMP, among the ComEd nuclear stations. This program includes generic requirements pertaining to environmental sampling and analysis, an annual land use census, an interlaboratory comparison program and environmental reports. Braidwood Station implemented UREMP in November of 1995.

SUMMARY

Gaseous and liquid effluents for the period contributed to only a small fraction of the Braidwood Station Technical Specification/Standards limits. Calculations of environmental concentrations based on effluent, Kankakee River flow, and meteorological data for the period indicate that consumption by the public of radionuclides attributable to the Braidwood Station does not exceed the regulatory limits. Radiation exposure from radionuclides released to the atmosphere represented the critical pathway for the period with a maximum individual total dose estimated to be $2.66E-04$ mrem for the year, where a shielding and occupancy factor of 0.7 is assumed. The assessment of radiation doses is performed in accordance with the ComEd Offsite Dose Calculation Manual (ODCM). The results of analysis confirm that the station is operating in compliance with 10CFR50 Appendix I, 10CFR20 and 40CFR190.

1.0 EFFLUENTS

1.1 Gaseous Effluents to the Atmosphere

Measured concentrations of noble gases, radioiodine, and particulate radioactivity released to the atmosphere during the year, are listed in Table 1.1-1.

A total of $2.97\text{E}+01$ curies of fission and activation gases was released with a maximum quarterly average release rate of $7.60\text{E}-01$ $\mu\text{Ci}/\text{sec}$.

A total of $8.35\text{E}-04$ curies of I-131 were released during the year.

A total of $7.25\text{E}-07$ curies alpha emitters and $2.36\text{E}-07$ beta-gamma emitters were released as airborne particulate matter.

A total of $1.42\text{E}+01$ curies of tritium was released.

1.2 Liquids Released to Kankakee River

A total of $2.40\text{E}+07$ liters of radioactive liquid waste (prior to dilution) containing $8.04\text{E}-01$ curies (excluding tritium, noble gases, and alpha) were discharged from the station. These wastes were released at a maximum quarterly average concentration of $1.31\text{E}-07$ $\mu\text{Ci}/\text{ml}$. A total of $0.00\text{E}+00$ curies of alpha radioactivity and $1.88\text{E}+03$ curies of tritium were released from the station. Monthly release estimates and principal radionuclides in liquid effluents are given in Table 1.2-1.

2.0 SOLID RADIOACTIVE WASTE

Solid radioactive wastes were shipped by truck to Barnwell, South Carolina; Oakridge, Tennessee; and Wampum, Pennsylvania. The record of waste shipments is summarized in Table 2.0-1.

3.0 DOSE TO MAN

3.1 Gaseous Effluent Pathways

Table 3.1-1 summarizes the doses resulting from releases of airborne radioactivity via the different exposure pathways.

3.1.1 Noble Gases

3.1.1.1 Gamma Dose Rates

Offsite gamma air and total body dose rates are shown in Table 3.1-1 and were calculated based on measured release rates, isotopic composition of the noble gases, and average meteorological data for the period. Isodose contours based on concurrent meteorological data for gamma dose for the year are shown in Figure 3.1-1. Based on measured effluents and average meteorological data, the maximum dose to an individual would be $2.66\text{E}-04$ mrem for the year, with an occupancy or shielding factor of 0.7 included, and based on measured effluents and concurrent meteorological data would be $9.12\text{E}-05$ mrem. The

maximum gamma air dose was 3.75E-04 mrad and 3.26E-04 mrad based on concurrent meteorological data.

3.1.1.2 Beta Air and Skin Dose Rates

The range of beta particles in air is relatively small (on the order of a few meters or less); consequently, plumes of gaseous effluents may be considered "infinite" for purpose of calculating the dose from beta radiation incident on the skin. However, the actual dose to sensitive skin tissues is difficult to calculate due to the effect of the beta particle energies, thickness of inert skin and clothing covering sensitive tissues. For purposes of this report the skin is taken to have a thickness of 7.0 mg/cm² and an occupancy factor of 1.0 is used. The skin dose from beta and gamma radiation for the year was 7.25E-04 mrem. The maximum offsite beta air dose for the year was 1.33E-03 mrem.

The air concentrations of radioactive noble gases at the offsite receptor locations are given in Figure 3.1-2.

3.1.2 Radioactive Iodine

The human thyroid exhibits a significant capacity to concentrate ingested or inhaled iodine and the radionuclide I-131. Minimal levels of radioiodine released during routine operation of the station may be made available to man, thus resulting in a dose to the thyroid. The pathway of interest for this radionuclide is ingestion of radioiodine in milk by an infant. Calculations are performed annually but the levels released from the station in previous years indicated that contributions to doses from inhalation of I-131 and I-133, and I-131 in milk are negligible.

3.1.2.1 Iodine-131 Concentrations in Air

The calculated concentration contours for iodine in air are shown in Figure 3.1-3. Included in these calculations is an iodine cloud depletion factor which accounts for the phenomenon of elemental iodine deposition on the ground. The maximum annual offsite concentration is estimated to be 3.89E-04 pCi/m³ for the year.

3.1.2.2 Dose to Infant's Thyroid

The hypothetical thyroid dose to an infant living near the station via ingestion of milk was calculated. The radionuclide considered was I-131 and the source of milk was taken to be the nearest dairy farm with the cows pastured from May through October. The maximum infant's thyroid dose was 1.46E-02 mrem during the year (Table 3.1-1).

3.1.3 Concentrations of Particulates in Air

Concentration contours of radioactive airborne particulates are shown in Figure 3.1-4. The maximum annual offsite concentration is estimated to be 1.12E-07 pCi/m³.

3.2 Liquid Effluent Pathways

The three principal pathways through the aquatic environment for potential doses to man from liquid waste are the ingestion of potable water, eating aquatic foods, and exposure while walking on the shoreline. Not all of these pathways are significant or applicable at a given time or station but a reasonable approximation of the dose can be made by adjusting the dose formula for season of the year or type and degree of use of the aquatic environment. NRC developed equations* were used to calculate the doses to the whole body, lower GI tracts, thyroid, bone, skin; specific parameters for use in the equations are given in the ComEd Offsite Dose Calculation Manual. The maximum whole body dose for the year was 1.67E-02 mrem and no organ dose exceeded 3.34E-02 mrem (Table 3.2-1).

3.3 Assessment of Dose to Member of Public

During the period January to December, 1995, Braidwood Station did not exceed the following limits as shown in Table 3.1-1 and Table 3.2-1 (based on annual average meteorological data), Figure 3.1-1 (based on concurrent meteorological data), and Table 3.3-1:

- The RETS limits on dose or dose commitment to an individual due to radioactive materials in liquid effluents from each reactor unit (1.5 mrem to the whole body or 5 mrem to any organ during any calendar quarter; 3 mrem to the whole body or 10 mrem to any organ during any calendar year).
- The RETS limits on air dose in noble gases released in gaseous effluents to a member of the public from each reactor unit (5 mrad for gamma radiation or 10 mrad for beta radiation during any calendar quarter; 10 mrad for gamma radiation or 20 mrad for beta radiation during any calendar year).
- The RETS limits on dose to any individual due to iodine-131, iodine-133, tritium, and radionuclides in particulate form with half-lives greater than eight days in gaseous effluents released from each reactor unit (7.5 mrems to any organ during any calendar quarter; 15 mrems to any organ during any calendar year).
- The 10CFR20 limit on Total Effective Dose Equivalent to individual members of the public (100 mrem).

4.0 SITE METEOROLOGY

A summary of the site meteorological measurements taken during each calendar quarter of the year is given in Appendix II. The data are presented as cumulative joint frequency distributions of the wind direction for the 203' level and wind speed class by atmospheric stability class determined from the temperature difference between 199' and 30' levels. Data recovery for these measurements was about 100.0% during 1995.

* Nuclear Regulatory Commission, Regulatory Guide 1.109 (Rev. 1).

5.0 ENVIRONMENTAL MONITORING

Table 5.0-1 provides an outline of the Radiological Environmental Monitoring Program (REMP) as required in current Technical Standards. Table 5.0-2 lists the sampling locations, sampling collection frequencies and analyses performed. Sampling locations are shown in Figures 5.0-1 to 5.0-4. Concentrations of radioactivity in various media are summarized in Tables 5.0-3 through 5.0-6. Table listing all data are presented in Appendix III.

Specific findings for various environmental media are discussed below.

5.1 Gamma Radiation

External radiation dose was measured using $\text{CaSO}_4:\text{Tm}$ thermoluminescent dosimeters (TLDs). Each location consists of 2 TLD sets. The quarterly average external radiation dose for the year was 12.5 mR at the indicator locations and 12.3 mR at the control locations. TLD results are listed in Section 4.0 of Appendix III and locations are shown in Figures 5.0-1 and 5.0-2.

Quarterly external radiation dose at nine air sampling locations averaged 12.3 mR and was similar to levels measured in 1985 (12.0 mR), 1986 (12.6 mR), 1987 (14.4 mR), 1988 (13.6 mR), 1989 (13.5 mR), 1990 (14.6 mR), 1991 (14.2 mR), 1992 (13.9 mR) 1993 (14.1 mR) and 1994 (13.7 mR). These differences are not statistically significant.

5.2 Airborne I-131 and Particulate Radioactivity

Airborne I-131 concentration remained below the LLD of 0.07 pCi/m^3 throughout the year in all samples.

Gross beta concentrations ranged from 0.011 to 0.046 pCi/m^3 and averaged 0.023 pCi/m^3 and was slightly lower than the average concentration in 1985 (0.028 pCi/m^3), 1986 (0.034 pCi/m^3 , except for the period from May 16 through June 6 when it was influenced by the nuclear reactor accident at Chernobyl), 1987 (0.027 pCi/m^3), 1988 (0.031 pCi/m^3), 1989 (0.028 pCi/m^3), 1990 (0.024 pCi/m^3), and similar to 1991 (0.022 pCi/m^3), 1992 (0.022 pCi/m^3), 1993 (0.022 pCi/m^3) and 1994 (0.021 pCi/m^3).

All gamma-emitting nuclides activities were below their respective LLD levels. No activity attributable to station operation was detected in any sample.

5.3 Terrestrial Radioactivity

Vegetables were collected in August and analyzed for gamma-emitting nuclides. In addition, green leafy vegetables were analyzed for I-131. I-131 and gamma-emitting nuclides were below the limits of detection indicating that there was no measurable amount of radioactivity attributable to the station releases.

5.4 Aquatic Radioactivity

Well water was collected monthly from one nearsite well (BD-13), and was analyzed for gross beta and gamma-emitting nuclides. Quarterly composites were analyzed for tritium. The annual mean gross beta concentration was 35.5 pCi/L and was slightly

higher than levels observed in 1985 (22.8 pCi/L), 1986 (25.2 pCi/L), 1987 (24.8 pCi/L), 1988 (27.4 pCi/L), 1989 (28.0 pCi/L), 1990 (17.5 pCi/L), 1991 (28.3 pCi/L), 1992 (25.7 pCi/L), 1993 (26.3 pCi/L) and 1994 (24.4 pCi/L). These differences are not statistically significant. All other results were below the limits of detection.

Prior to implementing UREMP surface and public water samples were collected weekly from 4 locations in the Kankakee River (2 upstream and 2 downstream). Weekly samples were composited monthly and analyzed for gamma-emitting nuclides and quarterly composites were analyzed for tritium. Public water samples were also composited monthly and analyzed for gross beta.

Cs-134 and Cs-137 concentrations were below the LLD level of 15 pCi/L and 18 pCi/L, respectively, in all samples.

Tritium concentrations in surface water were below the LLD level of 200 pCi/L in most surface water samples except for one downstream surface water sample location (739 pCi/L average). The presence of tritium is attributable to station operation.

Tritium concentrations in public water samples were above the LLD level of 200 pCi/L in most samples. A maximum tritium concentration of 7,104 pCi/L via grab sampling was experienced during February. Due to larger fluctuations from individual grab sample results, a compositor was installed in April, 1995, to obtain a more representative sample. Between April and December, 1995, the average monthly composite tritium concentration was 1,881 pCi/L. These values are less than the reportable level of 20,000 pCi/L for drinking water.

Sediment samples were collected twice a year from one indicator location and analyzed for gamma-emitters. Cs-134 and Cs-137 concentrations were below the lower limit of detection (0.15 pCi/g dry weight and 0.18 pCi/g dry weight, respectively) for the program.

Levels of gamma radioactivity in fish were measured and found in all samples to be below the lower limit of detection for the program.

5.5 Milk

Milk samples were collected monthly from November through April and biweekly from May through October and analyzed for Iodine-131 and gamma-emitting nuclides.

I-131 concentration was below the LLD level of 1 pCi/L in all samples.

Cs-134 and Cs-137 were below the LLD level of 15 pCi/L and 18 pCi/L, respectively. All other gamma-emitting nuclides, except naturally-occurring K-40, were below their respective LLDs.

5.6 Sample Collections

All samples were collected as scheduled except those listed in the Listing of Missed Samples, Section 2.0 of Appendix III.

5.7 Program Modifications

As of January 13, 1995, well water sample location BD-13 (Braidwood City Hall) was moved to a new pump house. The old pump house was demolished.

As of April 6, 1995, a compositor was installed and operational at the Wilmington Public Water Intake sample location BD-22.

Implemented UREMP in November, 1995. Changes based on UREMP implementation are summarized as follows:

Deleted air sampling location BD-01. Regrouped the remaining 9 air samplers into near field, far field and control. Revised analysis to routinely include only near field and control.

Deleted TLD locations BD-101-1, BD-101-2, BD-111b-1, BD-111b-2, BD-113b-1, BD-113b-2, BD-212-3, BD-212-4, BD-213-3 and BD-212-4.

Revised well water sampling frequency from weekly to quarterly. Added four new well water sample locations, BD-34 (Gibson Well), BD-35 (Joly Well), BD-36 (Hutton Well) and BD-37 (Nurczyk Well).

Added additional gross beta analysis on monthly composite of surface water samples. Deleted surface water location BD-07 (Kankakee River Upstream).

Deleted cooling water sample locations BD-08 and BD-09.

Revised milk sampling frequency during May to October from bi-monthly to bi-weekly. Deleted milk sampling locations BD-18 (Biros Farm), BD-26 (Gaddis Farm) and BD-27 (Prussner Farm).

Deleted fish locations BD-07 (Kankakee River upstream) and BD-10 (Kankakee River Downstream). Added new fish location BD-25 (Kankakee River upstream of discharge) and BD-28 (Kankakee River in discharge area).

Revised food product sampling to three times annually and removed specific location requirements due to the variable availability of food products.

6.0 ANALYTICAL PROCEDURES

Procedures used during the period covered in this report remained essentially unchanged. A summary of the procedures used for analyzing radioactivity in environmental samples is given in Appendix V of the report for the period January - December 1993.

7.0 MILCH ANIMALS AND NEAREST LIVESTOCK CENSUS

A census of milch animals and nearest cattle was conducted within a five mile radius of the Station. The survey was conducted by "door-to-door" canvas and by information from Illinois Agricultural Agents. The census was conducted by A. Lewis on August 15, 1995.

Results of the milch animal and nearest cattle census are presented in Appendix III.

8.0 NEAREST RESIDENCES CENSUS

A census of the nearest residences within a five (5) mile radius was conducted by A. Lewis on August 14, 1995.

Results of the nearest residence census are presented in Appendix III.

9.0 INTERLABORATORY COMPARISON PROGRAM RESULTS

Teledyne's Interlaboratory Comparison Program Results are presented in Appendix IV.

ComEd's Thermoluminescent Dosimeter (TLD) Program is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) which requires biennial review and evaluation. In addition to the biennial ANSI tested requirement, ComEd also tests to the ANSI standard during the non-NVLAP visitation year. ComEd additionally has an internal irradiation program that tests each of the six nuclear station TLD processors once per quarter. The results of all TLD performance tests are retained by ComEd's Corporate Health Physics Support Department.

10.0 ERRATA DATA

In January, 1996, while turnover was being conducted between two computer programmers on the ODCM computer program, 5 of the 6 pathways used in the calculation of organ dose to verify compliance with 10CFR50 dose limits were found to be turned "off". It was determined that these pathways were "off" since January 1, 1994, when the computer program was updated to comply with the revision to 10CFR20. The pathway switches were immediately turned on and the organ doses for 1994 were recalculated. Appendix VI contains the corrected organ dose data.

APPENDIX I

DATA TABLES AND FIGURES

TABLE 1.1-1

BRAIDWOOD NUCLEAR POWER STATION
ANNUAL EFFLUENT REPORT FOR 1995
GAS RELEASES
UNIT 1 (Docket Number 50-456)
SUMMATION OF ALL RELEASES

Units	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	Total
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A. Fission and Activation Gas Releases

1. Total Release Activity	Ci	4.43E+00	1.90E+00	4.96E+00	5.99E+00	1.73E+01
2. Average Release Rate	uCi/sec	5.62E-01	2.41E-01	6.29E-01	7.60E-01	5.49E-01

B. Iodine Releases

1. Total I-131 Activity	Ci	1.16E-05	<LLD	<LLD	7.52E-04	7.64E-04
2. Average Release Rate	uCi/sec	1.47E-06	<LLD	<LLD	9.54E-05	2.42E-05

C. Particulate (> 8 day half-life) Releases

1. Gross Activity	Ci	<LLD	<LLD	<LLD	2.36E-07	2.36E-07
2. Average Release Rate	uCi/sec	<LLD	<LLD	<LLD	2.99E-08	7.48E-09
3. Gross Alpha Activity	Ci	<LLD	2.02E-07	5.38E-08	<LLD	2.56E-07

D. Tritium Releases

1. Total Release Activity	Ci	2.69E+00	8.03E-02	8.36E-02	2.32E-01	3.09E+00
2. Average Release Rate	uCi/sec	3.41E-01	1.02E-02	1.06E-02	2.94E-02	9.80E-02

E. Sum of Iodine, Particulate (> 8 day half-life), and Tritium Releases.

1. Total Release Activity	Ci	2.69E+00	8.03E-02	8.36E-02	2.33E-01	3.09E+00
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Note: LLD Values are included in Appendix A of this report.

Note: % Limit Values are included in Appendix B of this report.

TABLE 1.1-1 (continued)

BRAIDWOOD NUCLEAR POWER STATION
ANNUAL EFFLUENT REPORT FOR 1995
GAS RELEASES
UNIT 2 (Docket Number 50-457)
SUMMATION OF ALL RELEASES

Units	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	Total
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A. Fission and Activation Gas Releases

1. Total Release Activity	Ci	4.88E+00	0.00E+00	3.95E+00	3.61E+00	1.24E+01
2. Average Release Rate	uCi/sec	6.19E-01	0.00E+00	5.01E-01	4.58E-01	3.93E-01

B. Iodine Releases

1. Total I-131 Activity	Ci	1.97E-05	<LLD	<LLD	5.14E-05	7.11E-05
2. Average Release Rate	uCi/sec	2.50E-06	<LLD	<LLD	6.52E-06	2.25E-06

C. Particulate (> 8 day half-life) Releases

1. Gross Activity	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
2. Average Release Rate	uCi/sec	<LLD	<LLD	<LLD	<LLD	<LLD
3. Gross Alpha Activity	Ci	<LLD	<LLD	9.36E-08	3.75E-07	4.69E-07

D. Tritium Releases

1. Total Release Activity	Ci	4.47E+00	1.20E+00	1.96E+00	3.46E+00	1.11E+01
2. Average Release Rate	uCi/sec	5.67E-01	1.52E-01	2.49E-01	4.39E-01	3.52E-01

E. Sum of Iodine, Particulate (> 8 day half-life), and Tritium Releases.

1. Total Release Activity	Ci	4.47E+00	1.20E+00	1.96E+00	3.46E+00	1.11E+01
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Note: LLD Values are included in Appendix A of this report.

Note: % Limit Values are included in Appendix B of this report.

TABLE 1.2-1

BRAIDWOOD NUCLEAR POWER STATION
ANNUAL EFFLUENT REPORT FOR 1995
LIQUID RELEASES
UNIT 1 (Docket Number 50-456)
SUMMATION OF ALL RELEASES

Units	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	Total
-------	---------	---------	---------	---------	-------

A. Fission and Activation Products

1. Total Activity Released	Ci	5.95E-02	1.64E-02	6.35E-02	2.63E-01	4.02E-01
2. Average Concentration Released	uCi/ml	2.13E-08	1.06E-08	7.45E-08	1.31E-07	5.58E-08

B. Tritium

1. Total Activity Released	Ci	2.98E+02	2.79E+02	2.26E+02	1.37E+02	9.40E+02
2. Average Concentration Released	uCi/ml	1.07E-04	1.81E-04	2.65E-04	6.81E-05	1.31E-04
3. % of Limit (1E-3 uCi/ml)	%	1.07E+01	1.81E+01	2.65E+01	6.81E+00	1.31E+01

C. Dissolved Noble Gases

1. Total Activity Released	Ci	9.05E-03	5.30E-04	2.76E-03	1.08E-04	1.24E-02
2. Average Concentration Released	uCi/ml	3.24E-09	3.43E-10	3.24E-09	5.37E-11	1.72E-09
3. % of Limit (2E-4 uCi/ml)	%	1.62E-03	1.72E-04	1.62E-03	2.69E-05	8.60E-04

D. Gross Alpha

1. Total Activity Released	Ci	<LLD	<LLD	<LLD	<LLD	0.00E+00
2. Average Concentration Released	uCi/ml	<LLD	<LLD	<LLD	<LLD	0.00E+00

E. Volume of Releases

1. Volume of Liquid Waste to Discharge	liters	3.29E+06	3.76E+06	2.47E+06	2.50E+06	1.20E+07
2. Volume of Dilution Water	liters	2.79E+09	1.54E+09	8.50E+08	2.01E+09	7.19E+09

Note: LLD Values are included in Appendix A of this report.

Note: % Limit Values are included in Appendix B of this report.

TABLE 1.2-1 (continued)

BRAIDWOOD NUCLEAR POWER STATION
ANNUAL EFFLUENT REPORT FOR 1995
LIQUID RELEASES
UNIT 2 (Docket Number 50-457)
SUMMATION OF ALL RELEASES

Units	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	Total
-------	---------	---------	---------	---------	-------

A. Fission and Activation Products

1. Total Activity Released	Ci	5.95E-02	1.64E-02	6.35E-02	2.63E-01	4.02E-01
2. Average Concentration Released	uCi/ml	2.13E-08	1.06E-08	7.45E-08	1.31E-07	5.58E-08

B. Tritium

1. Total Activity Released	Ci	2.98E+02	2.79E+02	2.26E+02	1.37E+02	9.40E+02
2. Average Concentration Released	uCi/ml	1.07E-04	1.81E-04	2.65E-04	6.81E-05	1.31E-04
3. % of Limit (1E-3 uCi/ml)	%	1.07E+01	1.81E+01	2.65E+01	6.81E+00	1.31E+01

C. Dissolved Noble Gases

1. Total Activity Released	Ci	9.05E-03	5.30E-04	2.76E-03	1.08E-04	1.24E-02
2. Average Concentration Released	uCi/ml	3.24E-09	3.43E-10	3.24E-09	5.37E-11	1.72E-09
3. % of Limit (2E-4 uCi/ml)	%	1.62E-03	1.72E-04	1.62E-03	2.69E-05	8.60E-04

D. Gross Alpha

1. Total Activity Released	Ci	<LLD	<LLD	<LLD	<LLD	0.00E+00
2. Average Concentration Released	uCi/ml	<LLD	<LLD	<LLD	<LLD	0.00E+00

E. Volume of Releases

1. Volume of Liquid Waste to Discharge	liters	3.29E+06	3.76E+06	2.47E+06	2.50E+06	1.20E+07
2. Volume of Dilution Water	liters	2.79E+09	1.54E+09	8.50E+08	2.01E+09	7.19E+09

Note: LLD Values are included in Appendix A of this report.

Note: % Limit Values are included in Appendix B of this report.

TABLE 2.0-1

BRAIDWOOD NUCLEAR POWER STATION
ANNUAL EFFLUENT REPORT FOR 1995
SOLID RADIOACTIVE WASTE
UNIT 1 AND 2 COMBINED (Docket Number 50-456 and 50-457)

A. SOLID WASTE SHIPPED OFFSITE FOR BURIAL OR DISPOSAL

DESCRIPTION	VOLUME (m ³)	CURIES	MAJOR NUCLIDES/CURIES
Process Waste	1.44E+2	6.99E+1 Error = 1.28E0%	FE55 48.5% Curies = 3.38E+1 +/- 2.41E00% CS137 7.6% Curies = 5.27E+0 +/- 2.59E00% CS134 2.8% Curies = 1.98E+0 +/- 2.65E00% CO60 10.9% Curies = 7.57E+0 +/- 2.39E00% CO58 13.7% Curies = 9.54E+0 +/- 2.45E00% NI63 7.7% Curies = 5.37E+0 +/- 2.38E00% NB95 0.3% Curies = 2.09E-1 +/- 3.64E00% MN54 1.5% Curies = 1.04E+0 +/- 2.13E00% H3 2.0% Curies = 1.39E+0 +/- 1.88E00% ZR95 0.2 % Curies = 1.19E-0 +/- 3.74E00% CO57 0.3% Curies = 1.80E-01 +/- 2.96E00% C14 0.5% Curies = 3.26E-1 +/- 2.37E00% SB125 3.3% Curies = 2.29E+0 +/- 2.70E00% TE125M 0.6% Curies = 4.44E-1 +/- 2.72E00% CR51 0.2% Curies = 1.71E-1 +/- 3.89E00%
Dry Active Waste	1.90E+2	7.68E+00 Error = 1.08E0%	FE55 61.0% Curies = 4.68E+0 +/- 1.69E00% CO58 7.4% Curies = 5.68E-1 +/- 2.25E00% CO60 13.6% Curies = 1.05E+0 +/- 1.66E00% NI63 9.6% Curies = 7.37E-1 +/- 1.64E00% NB95 1.4% Curies = 1.11E-1 +/- 2.20E00% MN54 1.8% Curies = 1.37E-1 +/- 1.83E00% CS137 2.2% Curies = 1.67E-1 +/- 1.71E00% ZR95 1.0% Curies = 7.60E-2 +/- 2.24E00% CS134 0.8% Curies = 6.34E-2 +/- 1.87E00% C14 0.6% Curies = 4.55E-2 +/- 1.63E00% CO57 0.1% Curies = 1.06E-2 +/- 1.90E00% PU241 0.0% Curies = 9.13E-4 +/- 1.68E00% SR90 0.0% Curies = 4.65E-4 +/- 1.64E00% I129 0.0% Curies = 1.69E-5 +/- 1.63E00% CR51 0.5% Curies = 3.66E-2 +/- 4.11E00%
Irradiated Components			0.00E-1 0.00E-1

TABLE 2.0-1 (continued)

BRAIDWOOD NUCLEAR POWER STATION
 ANNUAL EFFLUENT REPORT FOR 1995
 SOLID RADIOACTIVE WASTE
 UNIT 1 AND 2 COMBINED (Docket Number 50-456 and 50-457)

A. SOLID WASTE SHIPPED OFFSITE FOR BURIAL OR DISPOSAL

DESCRIPTION	VOLUME (m ³)	CURIES	MAJOR NUCLIDES/CURIES
Other: (Resistance Temperature Detector Piping)			
	1.85E+02	1.14E+02 Error = 3.20E0%	FE55 60.5% Curies = 6.88+1 +/- 5.11E00% CO60 12.9% Curies = 1.47E+0 +/- 5.12E00% NI63 8.8% Curies = 9.97E+0 +/- 5.12E00% CO58 8.1% Curies = 9.19E+0 +/- 3.53E00% CR51 3.9% Curies = 4.47E+0 +/- 3.62E00% MN54 2.0% Curies = 2.25E+0 +/- 4.87E00% NB95 1.1% Curies = 1.24E+0 +/- 4.00E00% ZR95 0.6% Curies = 7.32E-1 +/- 3.60E00% SB125 0.6% Curies = 6.29E-1 +/- 5.01E00% C140.5% Curies = 6.02E-1 +/- 5.12E00% CS137 0.3% Curies = 3.03E-1 +/- 3.69E00% ZN65 0.3% Curies = 2.87E-1 +/- 4.59E00% FE59 0.3% Curies = 2.86E-1 +/- 3.33E00% H3 0.1% Curies = 1.68E-1 +/- 5.39E00% CE144 0.1% Curies = 1.49E-1 +/- 3.63E00%

Number of Shipments: 28

Mode of Transportation: Exclusive Use Vehicle

Destination: Barnwell, South Carolina (20), Oakridge, Tennessee (5), Wampum Pennsylvania (3)

B. IRRADIATED FUEL SHIPMENTS

No irradiated fuel shipments for January through December, 1995

NOTE: Actual burial volume of dry active waste was 39.90m³ after further vendor volume reduction.

TABLE 2.0-1 (continued)

BRAIDWOOD NUCLEAR POWER STATION
ANNUAL EFFLUENT REPORT FOR 1995
SOLID RADIOACTIVE WASTE
UNIT 1 AND 2 COMBINED (Docket Number 50-456 and 50-457)

Shipment Number	Waste Class	Type of Container	Solidification Agent or Absorbent
RWS-95-001	A	TYPE A	NONE
RWS-95-002	A	TYPE A	NONE
RWS-95-003	A	TYPE A	NONE
RWS-95-004	A	TYPE A	NONE
RWS-95-005	A	TYPE A	NONE
RWS-95-006	A	TYPE A	NONE
RWS-95-007	A	TYPE A	NONE
RWS-95-008	A	TYPE A	NONE
RWS-95-009	B	TYPE B	NONE
RWS-95-010	A	STC	NONE
RWS-95-011	A	STC	NONE
RWS-95-012	A	STC	NONE
RWS-95-013	A	TYPE A	NONE
RWS-95-014	A	TYPE A	NONE
RWS-95-015	A	STC	NONE
RWS-95-016	A	TYPE A	NONE
RWS-95-017	A	TYPE A	NONE
RWS-95-018	A	STC	NONE
RWS-95-019	A	TYPE A	NONE
RWS-95-020	A	STC	NONE
RWS-95-021	A	STC	NONE
RWS-95-022	A	STC	NONE
RWS-95-023	A	TYPE A	NONE
RWS-95-024	A	TYPE A	NONE
RWS-95-025	A	TYPE A	NONE
RWS-95-026	A	TYPE A	NONE
RWS-95-027	A	TYPE B	NONE
RWS-95-028	A	TYPE A	NONE

FIGURE 3.1-1

Estimated Cumulative Gamma Dose (in mrem)
 from the Braidwood Station for the period
 January-December 1995

Isopleth Labels

Small figure - multiply by 10^5
 Large figure - multiply by 10^7

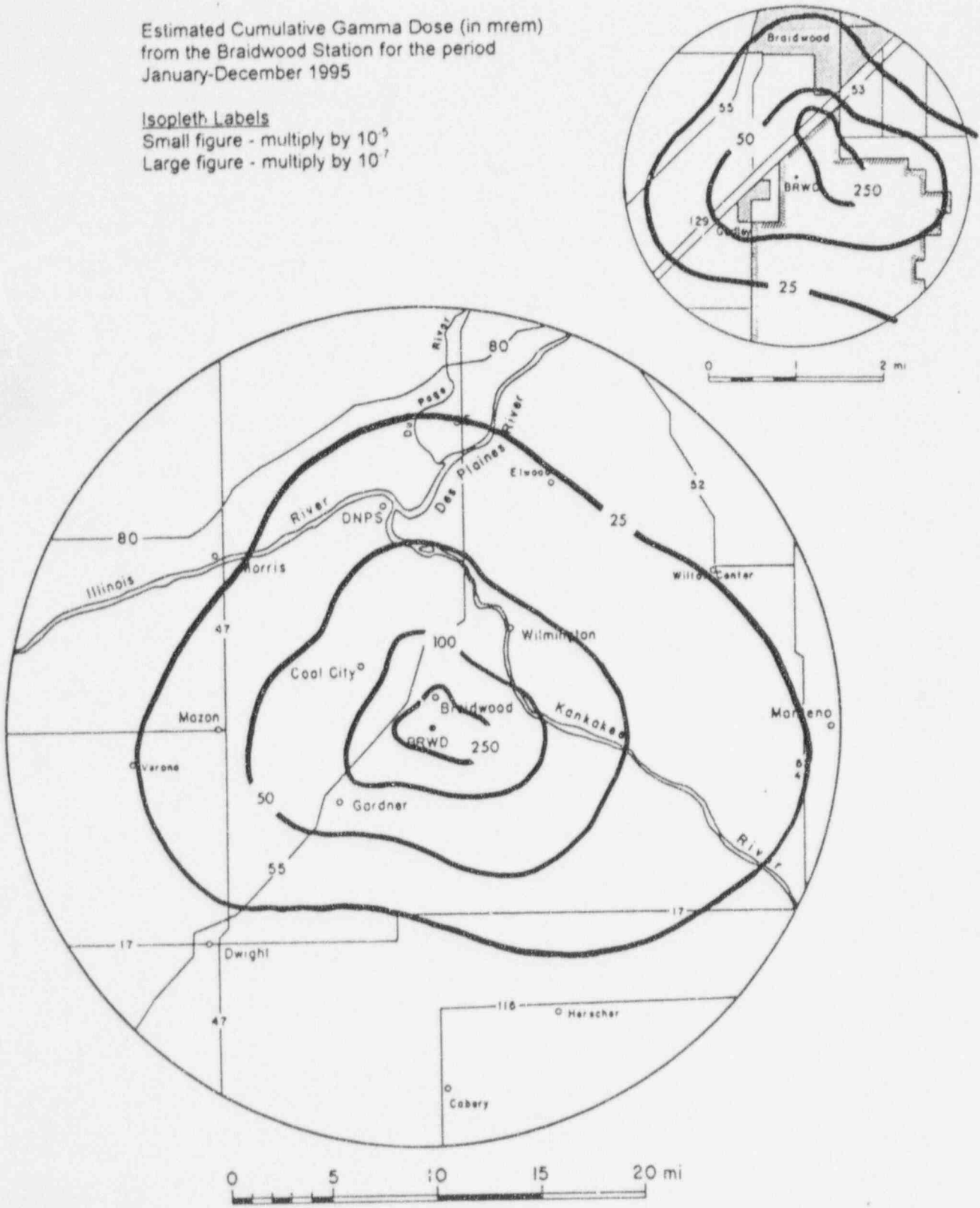


FIGURE 3.1-2

Estimated Total Concentrations (in pCi/m³)
of Noble Gases from the Braidwood Station
for the period January-December 1995

Isopleth Labels

Small figure - multiply by 10⁻²

Large figure - multiply by 10⁻³

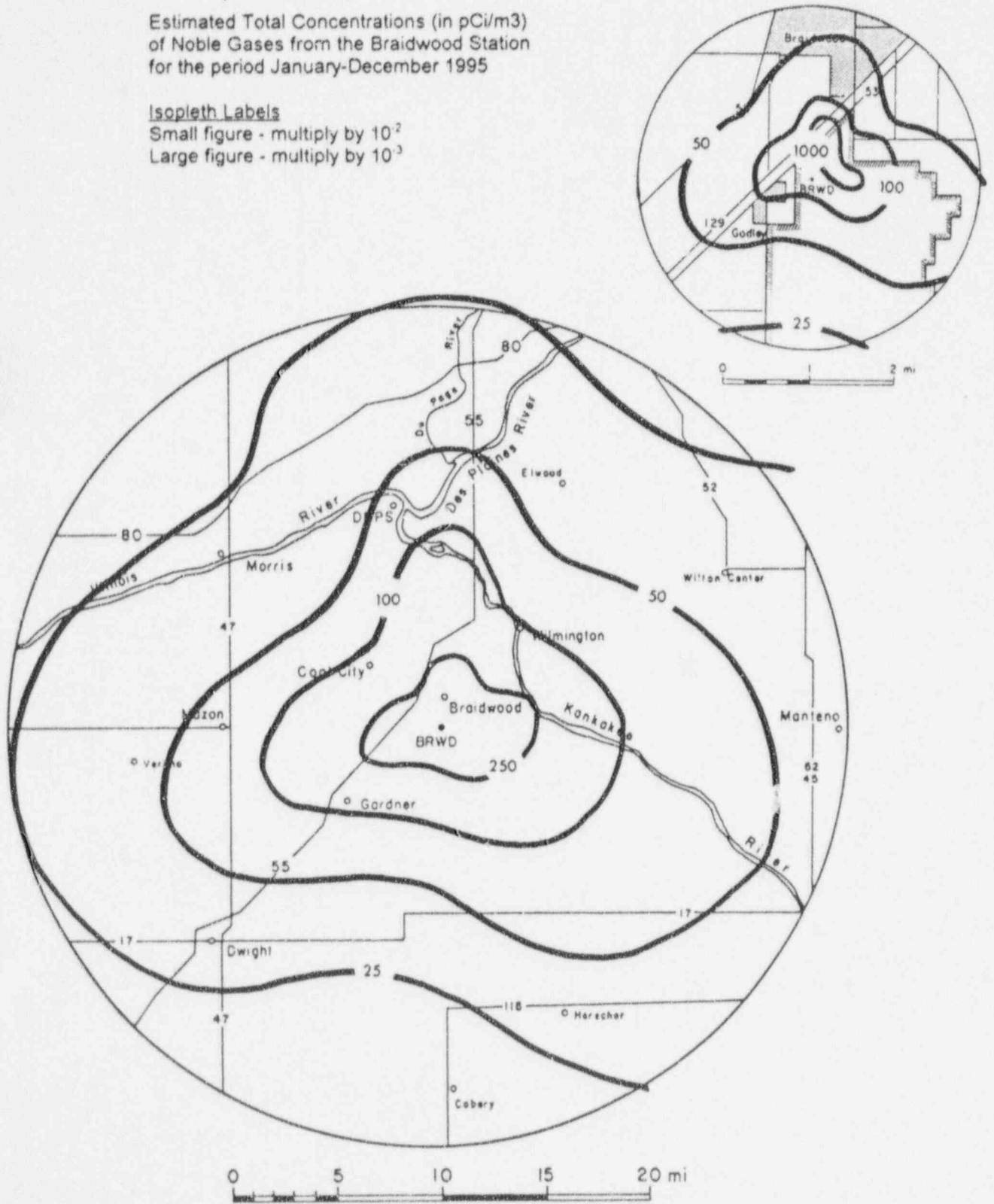


FIGURE 3.1-3

Estimated Total Concentrations (in pCi/m³)
of Iodines from the Braidwood Station for
the period January-December 1995

Isopleth Labels

Small figure - multiply by 10⁻⁶
Large figure - multiply by 10⁻⁷

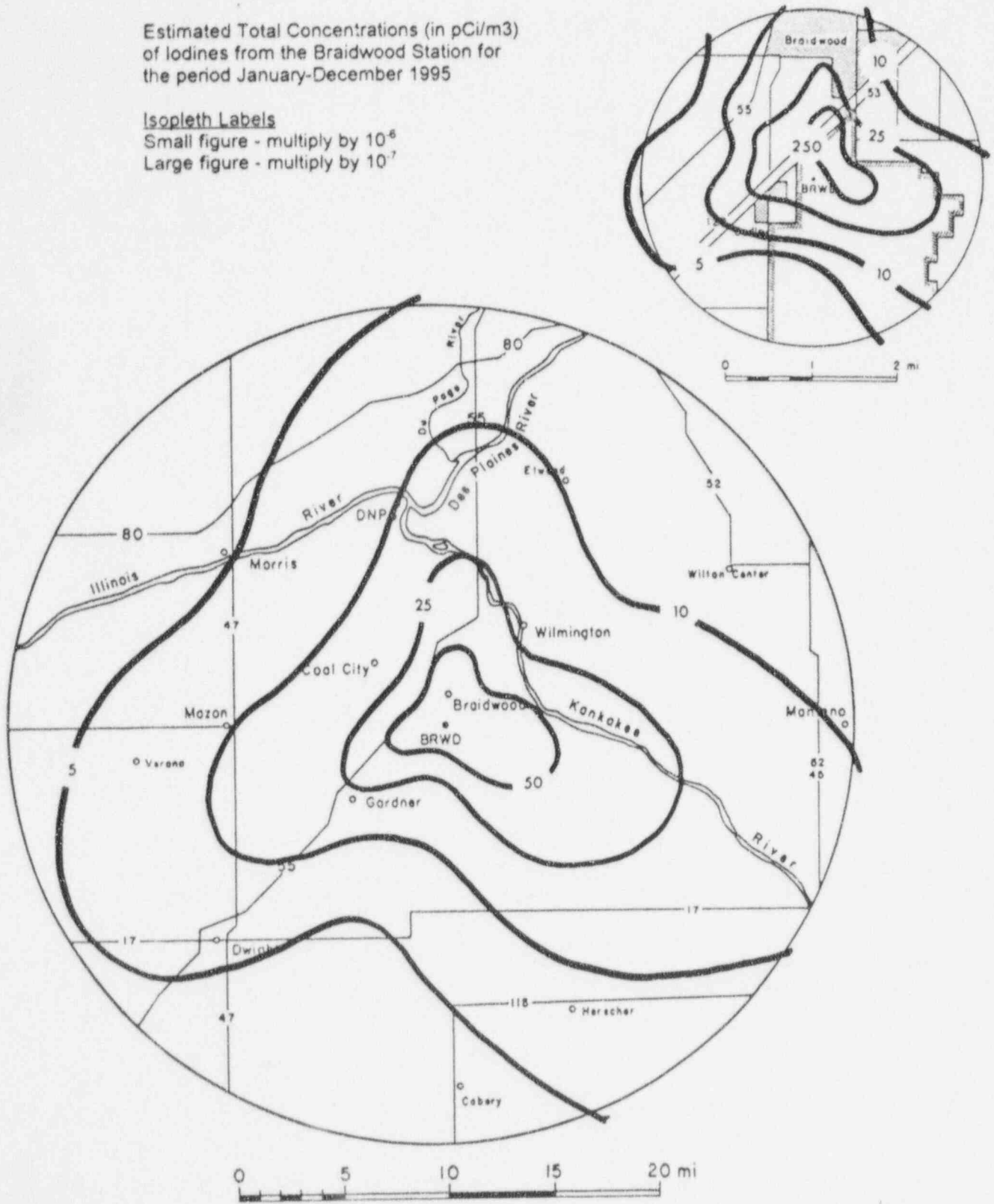


FIGURE 3.1-4

Estimated Total Concentrations (in pCi/m³)
of Particulates from the Braidwood Station
for the period January-December 1995

Isopleth Labels

Small figure - multiply by 10⁻¹⁰

Large figure - multiply by 10⁻¹¹

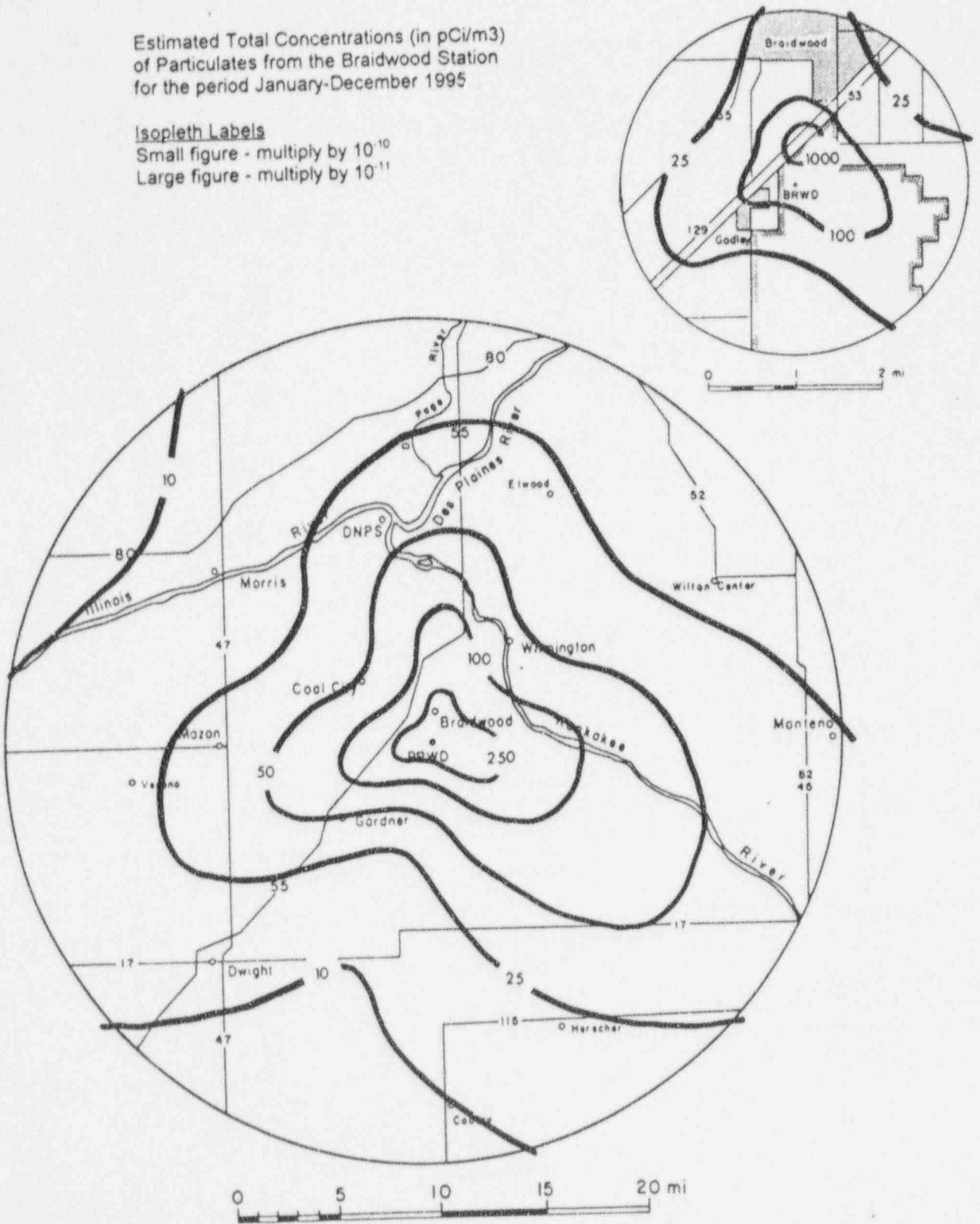


TABLE 3.1-1

BRAIDWOOD STATION UNIT ONE

ACTUAL 1995
 MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES
 PERIOD OF RELEASE - 01/01/95 TO 12/31/95 CALCULATED 03/13/96
 INFANT RECEPTOR

TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
GAMMA AIR (MRAD)	5.24E-05 (N)	1.72E-05 (N)	6.18E-05 (N)	5.75E-05 (N)	1.89E-04 (N)
BETA AIR (MRAD)	1.73E-04 (N)	5.16E-05 (N)	2.02E-04 (N)	2.36E-04 (N)	6.63E-04 (N)
TOT. BODY (MREM)	3.74E-05 (N)	1.24E-05 (N)	4.41E-05 (N)	4.04E-05 (N)	1.34E-04 (N)
SKIN (MREM)	9.95E-05 (N)	3.12E-05 (N)	1.16E-04 (N)	1.18E-04 (N)	3.65E-04 (N)
ORGAN (MREM)	1.63E-03 (E)	2.80E-05 (E)	3.26E-05 (E)	7.91E-03 (E)	9.60E-03 (E)
	THYROID	LIVER THYROID KIDNEY LUNG GI_LLI	LIVER THYROID KIDNEY LUNG GI_LLI	THYROID	THYROID

THIS IS A REPORT FOR THE CALENDAR YEAR 1995

COMPLIANCE STATUS - 10CFR 50 APP. I
 INFANT RECEPTOR

----- % OF APP I. -----

	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
GAMMA AIR (MRAD)	5.0	0.00	0.00	0.00	0.00	10.0	0.00
BETA AIR (MRAD)	10.0	0.00	0.00	0.00	0.00	20.0	0.00
TOT. BODY (MREM)	2.5	0.00	0.00	0.00	0.00	5.0	0.00
SKIN (MREM)	7.5	0.00	0.00	0.00	0.00	15.0	0.00
ORGAN (MREM)	7.5	0.02	0.00	0.00	0.11	15.0	0.06
		THYROID	LIVER THYROID KIDNEY LUNG GI_LLI	LIVER THYROID KIDNEY LUNG GI_LLI	THYROID		THYROID

RESULTS BASED UPON: ODCM ANNEX REVISION 1.8 OCTOBER 1995
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

TABLE 3.1-1 (continued)

BRAIDWOOD STATION UNIT ONE

ACTUAL 1995

MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES

PERIOD OF RELEASE - 01/01/95 TO 12/31/95 CALCULATED 03/13/96

ADULT RECEPTOR

TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
GAMMA AIR (MRAD)	5.24E-05 (N)	1.72E-05 (N)	6.18E-05 (N)	5.75E-05 (N)	1.89E-04 (N)
BETA AIR (MRAD)	1.73E-04 (N)	5.16E-05 (N)	2.02E-04 (N)	2.36E-04 (N)	6.63E-04 (N)
TOT. BODY (MREM)	3.74E-05 (N)	1.24E-05 (N)	4.41E-05 (N)	4.04E-05 (N)	1.34E-04 (N)
SKIN (MREM)	9.95E-05 (N)	3.12E-05 (N)	1.16E-04 (N)	1.18E-04 (N)	3.65E-04 (N)
ORGAN (MREM)	6.41E-04 (E)	2.28E-04 (N)	3.51E-04 (N)	1.61E-02 (N)	1.73E-02 (N)
	THYROID	LIVER THYROID KIDNEY LUNG GI_LLI	LIVER THYROID KIDNEY LUNG GI_LLI	THYROID	THYROID

THIS IS A REPORT FOR THE CALENDAR YEAR 1995

COMPLIANCE STATUS - 10CFR 50 APP. I
ADULT RECEPTOR

----- % OF APP I. -----

	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
GAMMA AIR (MRAD)	5.0	0.00	0.00	0.00	0.00	10.0	0.00
BETA AIR (MRAD)	10.0	0.00	0.00	0.00	0.00	20.0	0.00
TOT. BODY (MREM)	2.5	0.00	0.00	0.00	0.00	5.0	0.00
SKIN (MREM)	7.5	0.00	0.00	0.00	0.00	15.0	0.00
ORGAN (MREM)	7.5	0.01	0.00	0.00	0.21	15.0	0.12
		THYROID	LIVER THYROID KIDNEY LUNG GI_LLI	LIVER THYROID KIDNEY LUNG GI_LLI	THYROID		THYROID

RESULTS BASED UPON: ODCM ANNEX REVISION 1.8 OCTOBER 1995
ODCM SOFTWARE VERSION 1.1 January 1995
ODCM DATABASE VERSION 1.1 January 1995

TABLE 3.1-1 (continued)

BRAIDWOOD STATION UNIT TWO

ACTUAL 1995

MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES

PERIOD OF RELEASE - 01/01/95 TO 12/31/95 CALCULATED 03/13/96

INFANT RECEPTOR

TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
GAMMA AIR (MRAD)	9.20E-05 (N)	1.07E-05 (N)	4.16E-05 (N)	4.21E-05 (N)	1.86E-04 (N)
BETA AIR (MRAD)	3.46E-04 (N)	1.78E-05 (N)	1.56E-04 (N)	1.47E-04 (N)	6.66E-04 (N)
TOT. BODY (MREM)	6.50E-05 (N)	7.92E-06 (N)	2.94E-05 (N)	2.99E-05 (N)	1.32E-04 (N)
SKIN (MREM)	1.80E-04 (N)	1.68E-05 (N)	8.12E-05 (N)	8.16E-05 (N)	3.60E-04 (N)
ORGAN (MREM)	2.26E-03 (E)	4.25E-05 (E)	7.67E-04 (E)	1.89E-03 (E)	4.96E-03 (E)
	THYROID	LIVER THYROID KIDNEY LUNG GI_LLI	LIVER THYROID KIDNEY LUNG GI_LLI	THYROID	THYROID

THIS IS A REPORT FOR THE CALENDAR YEAR 1995

COMPLIANCE STATUS - 10CFR 50 APP. I
INFANT RECEPTOR

----- % OF APP I. -----

	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
GAMMA AIR (MRAD)	5.0	0.00	0.00	0.00	0.00	10.0	0.00
BETA AIR (MRAD)	10.0	0.00	0.00	0.00	0.00	20.0	0.00
TOT. BODY (MREM)	2.5	0.00	0.00	0.00	0.00	5.0	0.00
SKIN (MREM)	7.5	0.00	0.00	0.00	0.00	15.0	0.00
ORGAN (MREM)	7.5	0.03	0.00	0.01	0.03	15.0	0.03
		THYROID	LIVER THYROID KIDNEY LUNG GI_LLI	LIVER THYROID KIDNEY LUNG GI_LLI	THYROID		THYROID

RESULTS BASED UPON: ODCM ANNEX REVISION 1.8 OCTOBER 1995
ODCM SOFTWARE VERSION 1.1 January 1995
ODCM DATABASE VERSION 1.1 January 1995

TABLE 3.1-1 (continued)

BRAIDWOOD STATION UNIT TWO

ACTUAL 1995
 MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES
 PERIOD OF RELEASE - 01/01/95 TO 12/31/95 CALCULATED 03/13/96
 ADULT RECEPTOR

TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
GAMMA AIR (MRAD)	9.20E-05 (N)	1.07E-05 (N)	4.16E-05 (N)	4.21E-05 (N)	1.86E-04 (N)
BETA AIR (MRAD)	3.46E-04 (N)	1.78E-05 (N)	1.56E-04 (N)	1.47E-04 (N)	6.66E-04 (N)
TOT. BODY (MREM)	6.50E-05 (N)	7.92E-06 (N)	2.94E-05 (N)	2.99E-05 (N)	1.32E-04 (N)
SKIN (MREM)	1.80E-04 (N)	1.68E-05 (N)	8.12E-05 (N)	8.16E-05 (N)	3.60E-04 (N)
ORGAN (MREM)	1.42E-03 (N)	1.86E-04 (N)	8.25E-03 (N)	1.32E-02 (N)	2.31E-02 (N)
	THYROID	LIVER THYROID KIDNEY LUNG GI_LLI	LIVER THYROID KIDNEY LUNG GI_LLI	THYROID	THYROID

THIS IS A REPORT FOR THE CALENDAR YEAR 1995

COMPLIANCE STATUS - 10CFR 50 APP. I
 ADULT RECEPTOR

----- % OF APP I. -----

	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
GAMMA AIR (MRAD)	5.0	0.00	0.00	0.00	0.00	10.0	0.00
BETA AIR (MRAD)	10.0	0.00	0.00	0.00	0.00	20.0	0.00
TOT. BODY (MREM)	2.5	0.00	0.00	0.00	0.00	5.0	0.00
SKIN (MREM)	7.5	0.00	0.00	0.00	0.00	15.0	0.00
ORGAN (MREM)	7.5	0.02	0.00	0.11	0.18	15.0	0.15
	THYROID	LIVER THYROID KIDNEY LUNG GI_LLI	LIVER THYROID KIDNEY LUNG GI_LLI	THYROID	THYROID	THYROID	

RESULTS BASED UPON: ODCM ANNEX REVISION 1.8 OCTOBER 1995
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

TABLE 3.2-1

BRAIDWOOD STATION UNIT ONE

ACTUAL 1995
 MAXIMUM DOSES (MREM) RESULTING FROM AQUATIC EFFLUENTS
 PERIOD OF RELEASE - 01/01/95 TO 12/31/95 CALCULATED 03/13/96
 ADULT RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL BODY	1.81E-03	1.78E-03	1.69E-03	3.05E-03	8.33E-03
INTERNAL ORGAN	4.01E-03	1.83E-03	2.21E-03	8.77E-03	1.67E-02
	GI_LLI	LIVER	GI_LLI	GI_LLI	GI_LLI

THIS IS A REPORT FOR THE CALENDAR YEAR 1995

COMPLIANCE STATUS - 10 CFR 50 APP. I

----- % OF APP I. -----

	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
TOTAL BODY (MREM)	1.5	0.12	0.12	0.11	0.20	3.0	0.28
CRIT. ORGAN(MREM)	5.0	0.08	0.04	0.04	0.18	10.0	0.17
		GI_LLI	LIVER	GI_LLI	GI_LLI		GI_LLI

RESULTS BASED UPON: ODCM ANNEX REVISION 1.8 OCTOBER 1995
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

TABLE 3.2-1 (continued)

BRAIDWOOD STATION UNIT TWO

ACTUAL 1995
 MAXIMUM DOSES (MREM) RESULTING FROM AQUATIC EFFLUENTS
 PERIOD OF RELEASE - 01/01/95 TO 12/31/95 CALCULATED 03/13/96
 ADULT RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL BODY	1.81E-03	1.78E-03	1.69E-03	3.05E-03	8.33E-03
INTERNAL ORGAN	4.01E-03	1.83E-03	2.21E-03	8.77E-03	1.67E-02
	GI_LLI	LIVER	GI_LLI	GI_LLI	GI_LLI

THIS IS A REPORT FOR THE CALENDAR YEAR 1995

COMPLIANCE STATUS - 10 CFR 50 APP. I

----- % OF APP I. -----

	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
TOTAL BODY (MREM)	1.5	0.12	0.12	0.11	0.20	3.0	0.28
CRIT. ORGAN (MREM)	5.0	0.08	0.04	0.04	0.18	10.0	0.17
		GI_LLI	LIVER	GI_LLI	GI_LLI		GI_LLI

RESULTS BASED UPON: ODCM ANNEX REVISION 1.8 OCTOBER 1995
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

TABLE 3.3-1

BRAIDWOOD STATION UNIT ONE

10 CFR 20 COMPLIANCE ASSESSMENT

PERIOD OF ASSESSMENT 01/01/95 TO 12/31/95

CALCULATED 03/08/96

1.	10 CFR 20.1301 (a)(1) Compliance		
	Total Effective Dose Equivalent, mrem/yr	8.68E-03	
	10 CFR 20.1301 (a)(1) limit	mrem/yr	100.0
		% of limit	0.01

Compliance Summary - 10CFR20

	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	% of Limit
TEDE	1.86E-03	1.26E-03	1.60E-03	3.95E-03	0.01

RESULTS BASED UPON: ODCM ANNEX REVISION 1.8 OCTOBER 1995
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

TABLE 3.3-1 (continued)

BRAIDWOOD STATION UNIT ONE
 10 CFR 20 COMPLIANCE ASSESSMENT
 PERIOD OF ASSESSMENT 01/01/95 TO 12/31/95
 CALCULATED 03/08/96

2. 10 CFR 20.1301 (d)/40 CFR 190 Compliance

		Dose (mrem)	Limit (mrem)	% of Limit
Whole Body (DDE)	Plume	1.34E-04		
	Skyshine	0.00E+00		
	Ground	7.00E-06		
	Total	1.41E-04	25.0	0.00
Organ Dose (CDE)	Thyroid	2.05E-02	75.0	0.03
	Gonads	8.37E-03	25.0	0.03
	Breast	6.62E-03	25.0	0.03
	Lung	6.51E-03	25.0	0.03
	Marrow	6.96E-03	25.0	0.03
	Bone	6.95E-03	25.0	0.03
	Remainder	1.00E-02	25.0	0.04
	CEDE	8.53E-03		
TEDE	8.68E-03	100.0	0.01	

RESULTS BASED UPON: ODCM ANNEX REVISION 1.8 OCTOBER 1995
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

TABLE 3.3-1 (continued)

BRAIDWOOD STATION UNIT TWO

10 CFR 20 COMPLIANCE ASSESSMENT

PERIOD OF ASSESSMENT 01/01/95 TO 12/31/95

CALCULATED 03/08/96

1.	10 CFR 20.1301 (a)(1) Compliance		
	Total Effective Dose Equivalent, mrem/yr	2.03E-02	
	10 CFR 20.1301 (a)(1) limit	mrem/yr	100.0
		% of limit	0.02

Compliance Summary - 10CFR20

	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	% of Limit
TEDE	2.01E-03	1.23E-03	6.40E-03	1.06E-02	0.02

RESULTS BASED UPON: ODCM ANNEX REVISION 1.8 OCTOBER 1995
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

TABLE 3.3-1 (continued)

BRAIDWOOD STATION UNIT TWO
 10 CFR 20 COMPLIANCE ASSESSMENT
 PERIOD OF ASSESSMENT 01/01/95 TO 12/31/95
 CALCULATED 03/08/96

2. 10 CFR 20.1301 (d)/40 CFR 190 Compliance

		Dose (mrem)	Limit (mrem)	% of Limit
Whole Body (DDE)	Plume	1.32E-04		
	Skyshine	0.00E+00		
	Ground	1.36E-05		
	Total	1.46E-04	25.0	0.00
Organ Dose (CDE)	Thyroid	1.99E-02	75.0	0.03
	Gonads	2.03E-02	25.0	0.08
	Breast	1.86E-02	25.0	0.07
	Lung	1.85E-02	25.0	0.07
	Marrow	1.89E-02	25.0	0.08
	Bone	1.89E-02	25.0	0.08
	Remainder	2.20E-02	25.0	0.09
	CEDE	2.01E-02		
TEDE	2.03E-02	100.0	0.02	

RESULTS BASED UPON: ODCM ANNEX REVISION 1.8 OCTOBER 1995
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

FIGURE 5.0-1

Revision 1.0
January 1994

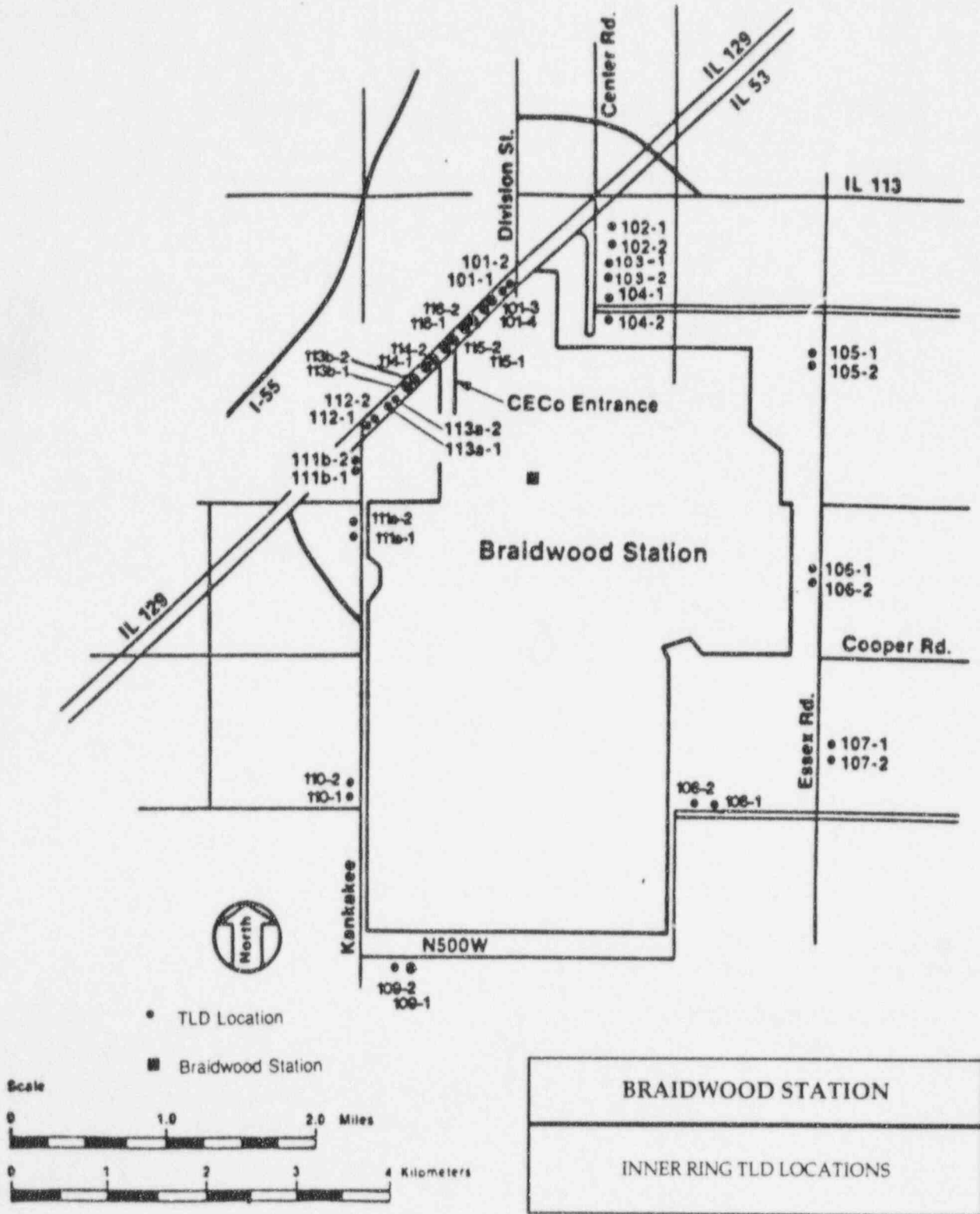
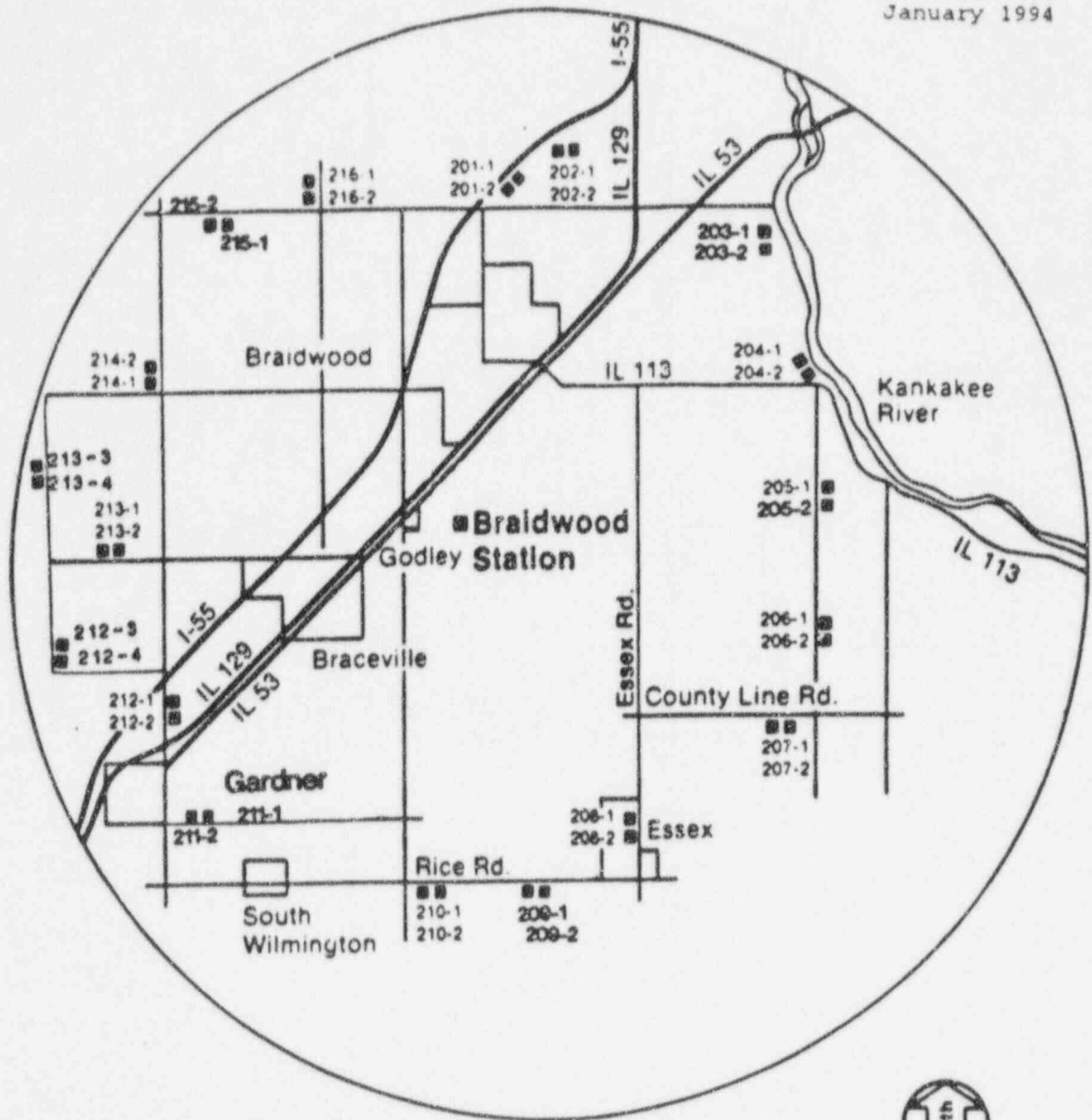


FIGURE 5.0-2

Revision 1.0
January 1994

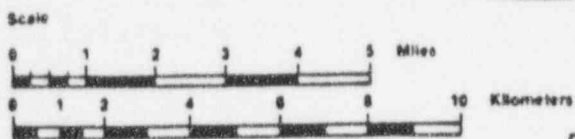
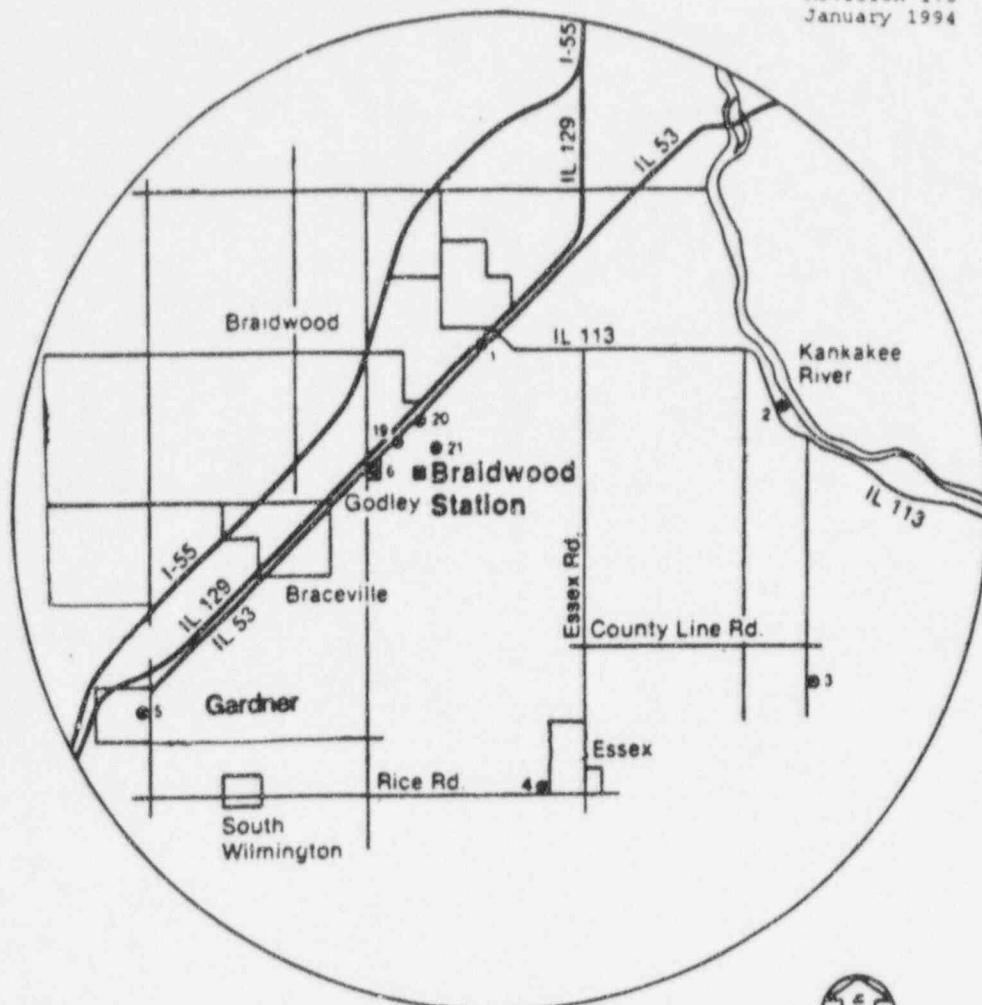


- TLD Location
- Braidwood Station

BRAIDWOOD STATION
OUTER RING TLD LOCATIONS

FIGURE 5.0-3

Revision 1.0
January 1994



• Air Sampling Location

■ Braidwood Station

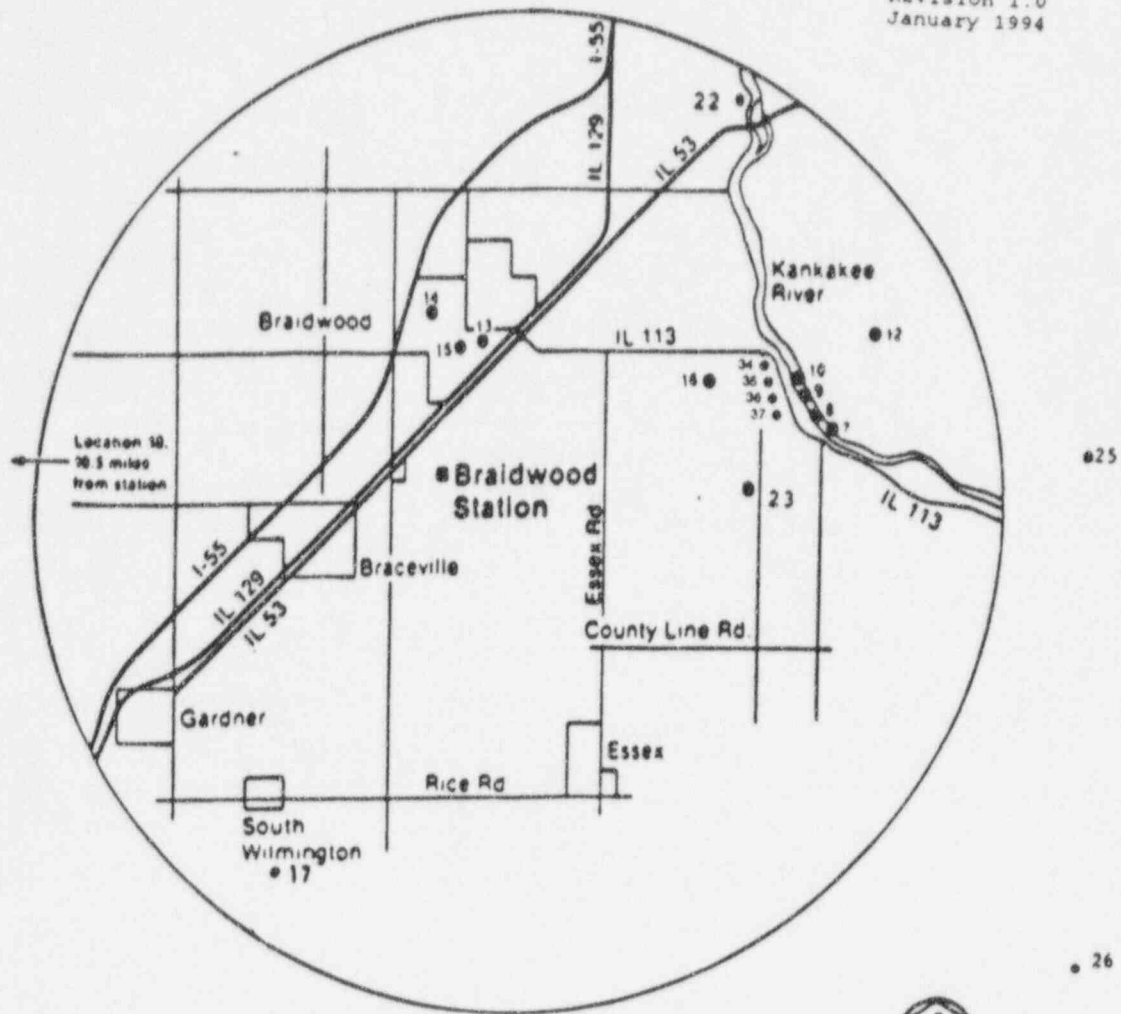
BRAIDWOOD STATION

FIXED AIR SAMPLING AND TLD SITES

- BD-01 Braidwood
- BD-02 Custer Park
- BD-03 County Line Road
- BD-04 Essex
- BD-05 Gardner
- BD-06 Godley
- BD-19 Nearsite NW
- BD-20 Nearsite N
- BD-21 Nearsite NE

FIGURE 5.0-4

Revision 1.0
January 1994



• 27

• 26

- Sampling Location
- Braidwood Station

BRAIDWOOD STATION
 INGESTION AND WATERBORNE EXPOSURE
 PATHWAY SAMPLE LOCATIONS

- BD-07 Kankakee River, Upstream
- BD-10 Kankakee River, Downstream
- BD-13 Braidwood City Hall Well
- BD-14 Pinnick Farm
- BD-15 Girot Farm
- BD-16 Clark Farm
- BD-17 Halpin's Dairy
- BD-18 Biros Farm
- BD-22 Wilmington
- BDSP-24 Goodwin Dairy
- BD-25 Kankakee River, Upstream
- BD-26 Gaddis Farm
- BD-27 Prussner Farm
- BD-34 Gibson Well
- BD-35 Joly Well
- BD-36 Hutton Well
- BD-37 Nurczyk

TABLE 5.0-1

Braidwood Station Radiological Environmental Monitoring Locations	Air Sampling		Cooling Water	Fish	Cooling Water	Milk	Sediments	Surface Water	Vegetables	Ground/Well Water
		TLD								
BD-01 Braidwood	0	0	.	.	.	.	.	.	.	.
BD-02 Custer Park	0	0	.	.	.	.	.	.	.	.
BD-03 County Line Road	0	0	.	.	.	.	.	.	.	.
BD-04 Essex	0	0	.	.	.	.	.	.	.	.
BD-05 Gardner	0	0	.	.	.	.	.	.	.	.
BD-06 Godley	0	0	.	.	.	.	.	.	.	.
BD-07 Kankakee River, Upstream	.	.	.	0	.	.	.	0	.	.
BD-08 Intake Pipe	.	.	0	.	.	.	.	.	.	.
BD-09 Discharge Pipe	.	.	0	.	.	.	.	.	.	.
BD-10 Kankakee River, Downstream	.	.	.	0	.	.	0	0	.	.
BD-13 Braidwood City Hall	.	.	.	.	.	.	.	.	.	0
BD-14 Pinnick Farm	.	.	.	.	.	.	.	.	0	.
BD-15 Girot Farm	.	.	.	.	.	.	.	.	0	.
BD-16 Clark Farm	.	.	.	.	.	.	.	.	0	.
BD-17 Halpin's Dairy	.	.	.	.	.	0	.	.	.	.
BD-18 Biros Farm	.	.	.	.	.	0	.	.	.	.
BD-19 Nearsite NW	0	0	.	.	.	.	.	.	.	.
BD-20 Nearsite N	0	0	.	.	.	.	.	.	.	.
BD-21 Nearsite NE	0	0	.	.	.	.	.	.	.	.
BD-22 Wilmington	.	.	.	.	0	.	.	.	.	.
BDSP-24 Goodwin Dairy	.	.	.	.	.	0	.	.	.	.
BD-25 Kankakee River, Upstream	.	.	.	0	.	.	.	0	.	.
BD-26 Gaddis Farm	.	.	.	.	.	0	.	.	.	.
BD-27 Prussner Farm	.	.	.	.	.	0	.	.	.	.
BDSP-28 Kankakee River, Discharge	.	.	.	0	.	.	.	.	.	.
BD-34 Gibson Well	.	.	.	.	.	.	.	.	.	0
BD-35 Joly Well	.	.	.	.	.	.	.	.	.	0
BD-36 Hutton Well	.	.	.	.	.	.	.	.	.	0
BD-37 Nurczyk Well	.	.	.	.	.	.	.	.	.	0

CENSUS
Dairy
Residence
Cattle

TABLE 5.0-2

BRAIDWOOD STATION

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM, SAMPLING LOCATIONS

1. AIR SAMPLERS

<u>Site Code</u> ^a	<u>Location</u>	<u>Distance</u> <u>(miles)</u>	<u>Direction</u> <u>(°)</u>
BD-01	Braidwood	1.5	29
BD-02	Custer Park	5.0	80
BD-03 (C)	County Line Road	6.2	120
BD-04	Essex	4.8	165
BD-05	Gardner	5.5	225
BD-06	Godley	0.5	245
BD-19	Nearsite NW	0.3	314
BD-20	Nearsite N	0.6	10
BD-21	Nearsite NE	0.5	43

2. TLDs

a. Same as No. 1.

b. Special TLD Locations

<u>Site Code</u>	<u>Distance</u> <u>(miles)</u>	<u>Direction</u> <u>(°)</u>
Inner Ring		
BD-101-1,2	0.6	9
BD-101-3,4	0.5	9
BD-102-1	1.2	32
BD-102-2	1.1	32
BD-103-1,2	1.0	76
BD-104-1,2	0.7	76
BD-105-1,2	1.5	85
BD-106-1,2	1.7	120
BD-107-1,2	2.0	135
BD-108-1,2	2.0	148
BD-109-1,2	2.5	190
BD-110-1,2	1.8	205
BD-111a-1,2	1.4	218
BD-111b-1,2	1.1	234
BD-112-1,2	0.7	252
BD-113a-1,2	0.5	263
BD-113b-1,2	0.4	273
BD-114-1,2	0.4	294
BD-115-1,2	0.3	315
BD-116-1	0.4	342
BD-116-2	0.5	342

^a Control (background) locations are denoted by a "C" after site code. All other locations are indicators.

TABLE 5.0-2 (continued)

BRAIDWOOD STATION

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM, SAMPLING LOCATIONS

2. TLDs

b. Special TLD Locations (continued)

<u>Site Code</u>	<u>Distance (miles)</u>	<u>Direction (°)</u>
Outer Ring		
BD-201-1,2	4.2	11
BD-202-1,2	4.8	20
BD-203-1,2	4.9	45
BD-204-1,2	4.3	70
BD-205-1,2	4.0	86
BD-206-1,2	4.5	112
BD-207-1,2	4.1	113
BD-208-1,2	4.5	155
BD-209-1,2	4.8	185
BD-210-1,2	4.9	195
BD-211-1,2	4.8	220
BD-212-1,2	4.7	240
BD-212-3,4	5.0	240
BD-213-1,2	4.5	260
BD-213-3,4	4.8	260
BD-214-1,2	4.3	287
BD-215-1,2	4.5	315
BD-216-1,2	4.4	330

3. MILK

<u>Site Code^a</u>	<u>Location</u>	<u>Distance (mile)</u>	<u>Direction (°)</u>
BD-17	Halpin's Dairy	5.5	200
BD-18 (C)	Biros Farm	8.7	270
BDSP-24 (C)	Goodwin Dairy ^b	7.4	79
BD-26 (C)	Gaddis Farm ^b	11.0	122
BD-27 (C)	Prussner Farm	11.0	178

^a Control (background) locations are denoted by a "C" after site code. All other locations are indicators.

^b Additional farm was not required by ODCM but was included to ensure that the program has at least three dairies.

TABLE 5.0-2 (continued)

BRAIDWOOD STATION

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM, SAMPLING LOCATIONS

4. VEGETABLES

<u>Site Code</u>	<u>Location</u>	<u>Distance (miles)</u>	<u>Direction ____(°)____</u>
BD-14	Pinnick Farm	1.8	350
BD-15	Girof Farm	1.4	5
BD-16	Clark Farm	3.3	67

5. PUBLIC WATER

<u>Site Code</u>	<u>Location</u>	<u>Distance (miles)</u>	<u>Direction ____(°)____</u>
BD-22	Wilmington	5.0	23

6. GROUND/WELL WATER

<u>Site Code^a</u>	<u>Location</u>	<u>Distance (miles)</u>	<u>Direction ____(°)____</u>
BD-13	Braidwood City Hall Well	1.7	30
BD-34	Gibson Well	4.7	80
BD-35	Joly Well	4.7	80
BD-36	Hutton Well	4.7	80
BD-37	Nurczyk Well	4.7	80

7. SURFACE WATER

<u>Site Code^a</u>	<u>Location</u>	<u>Distance (miles)</u>	<u>Direction ____(°)____</u>
BD-07 (C)	Kankakee River, Upstream	5.4	85
BD-10	Kankakee River, Downstream	5.0	76
BD-25 (C)	Kankakee River, Upstream	9.6	100

7. COOLING WATER

<u>Site Code^a</u>	<u>Location</u>	<u>Distance (miles)</u>	<u>Direction ____(°)____</u>
BD-08 (C)	Intake Pipe	5.0	90
BD-09	Discharge Pipe	5.0	90

^a Control (background) locations are denoted by a "C" after site code. All other locations are indicators.

TABLE 5.0-2 (continued)

BRAIDWOOD STATION

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM, SAMPLING LOCATIONS

8. FISH

<u>Site Code</u> ^a	<u>Location</u>	<u>Distance</u> <u>(miles)</u>	<u>Direction</u> <u>(°)</u>
BD-07 (C)	Kankakee River, Upstream	5.4	85
BD-10	Kankakee River, Downstream	5.0	76
BD-25 (C)	Kankakee River, Upstream	9.6	100
BDSP-28	Kankakee River, Discharge	5.0	90

7. SHORELINE SEDIMENTS

<u>Site Code</u> ^a	<u>Location</u>	<u>Distance</u> <u>(miles)</u>	<u>Direction</u> <u>(°)</u>
BD-10	Kankakee River, Downstream	5.0	76

^a Control (background) locations are denoted by a "C" after site code. All other locations are indicators.

TABLE 5.0-2 (continued)

BRAIDWOOD STATION

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM, SAMPLE COLLECTION AND ANALYSES

Sample Media	Location		Collection Frequency	Type of Analysis	Frequency of Analysis	Remarks	
	Code ^a	Site					
1. Airborne Particulates	Onsite and Near Field		Continuous operation for one week	Gross Beta	Weekly Quarterly	On all samples. On Quarterly composite from each location.	
				Gamma isot.			
	BD-01	Braidwood			Filter Exchange	Weekly	If gross beta in a sample exceeds 10 times the yearly mean of control samples.
	BD-02	Custer Park					
	BD-03 (C)	County Line Road					
	BD-04	Essex					
	BD-05	Gardner					
	BD-06	Godley					
BD-19	Nearsite NW						
BD-20	Nearsite N						
BD-21	Nearsite NE						
2. Airborne Iodine	Same as 1.		Continuous operation for one week	I-131	Weekly	On all samples.	
3. Air Sampling Train	Same as 1.		—	Test and Maintenance	Weekly	On all samplers.	
4. TLDs	a. Same as 1.		Quarterly	Gamma	Quarterly	Two sets of TLD's at all air sampler locations. All TLDs are read Quarterly. All TLDs are read Quarterly.	
	b. BD-101-1,2,3,4		Quarterly	Gamma	Quarterly		
	102-1,2						
	103-1,2						
	104-1,2						
	105-1,2						
	106-1,2						
	107-1,2						
	108-1,2						
	109-1,2						
	110-1,2						
	111a-1,2						
	111b-1,2						
	112-1,2						
	113a-1,2						
	113b-1,2						
	114-1,2						
115-1,2							
116-1,2							

^a Control (background) locations are denoted by a "C" in this column. All other locations are indicators.

TABLE 5.0-2 (continued)

BRAIDWOOD STATION

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM, SAMPLE COLLECTION AND ANALYSES

Sample Media	Location		Collection Frequency	Type of Analysis	Frequency of Analysis	Remarks
	Code ^a	Site				
4. TLDs (continued)	BD-201-1,2	Outer Ring				
	202-1,2					
	203-1,2					
	204-1,2					
	205-1,2					
	206-1,2					
	207-1,2					
	208-1,2					
	209-1,2					
	210-1,2					
	211-1,2					
	212-1,2,3,4					
	213-1,2,3,4					
	214-1,2					
	215-1,2					
216-1,2						
5. Milk	BD-17	Halpin's Dairy Biros Farm	Semimonthly: May-October	I-131 Gamma Isot.	Semimonthly: May-October	On all samples.
	BD-18 (C)					
	BDSP-24 (C)	Goodwin Dairy ^b Gaddis Dairy Prussner Dairy	Monthly: November-April	I-131 Gamma Isot.	Monthly: November-April	On all samples.
	BD-26 (C)					
BD-27 (C)						
6. Vegetables	BD-14	Pinnick Farm	Annually	Gamma Isot.	Annually	Four varieties from each location as available at harvest.
	BD-15	Girot Farm				
	BD-16	Clark Farm				
7. Public Water	BD-22	Wilmington	Weekly	Gross Beta Gamma Isot. Tritium	Monthly Monthly Quarterly	On Monthly composite. On Monthly composite. On Quarterly composite.

^a Control (background) locations are denoted by a "C" in this column. All other locations are indicators.

^b Additional dairy not required by ODCM but was included to ensure that the program has at least four dairies.

TABLE 5.0-2 (continued)

BRAIDWOOD STATION

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM, SAMPLE COLLECTION AND ANALYSES

Sample Media	Location		Collection Frequency	Type of Analysis	Frequency of Analysis	Remarks
	Code ^a	Site				
8. Ground/Well Water	BD-13	Braidwood City Hall	Biweekly	Gross beta Gamma Isot. Tritium I-131	Monthly Monthly Quarterly Biweekly	Monthly composite sample. Monthly composite sample. Quarterly composite sample. Analysis is done when compositing 2 week sample dose calculated for consumption of water .1 mrem per year.
	BD-34 BD-35 BD-36 BD-37	Gibson Well Joij Well Hutton Well Nurczyk Well	Quarterly	Gamma Isot. Tritium	Quarterly	
9. Surface Water	BD-07 (C)	Kankakee River, Upstream	Weekly	Gamma Isot. Tritium	Monthly Quarterly	On monthly composites. On Quarterly composites.
	BD-10	Kankakee River, Downstream				
	BD-25 (C)	Kankakee River, Upstream				
10. Cooling Water	BD-08 (C) ^b	Intake Pipe	Weekly	Gross Beta Tritium	Weekly Quarterly	On all samples. On Quarterly composites.
	BD-09 ^b	Discharge Pipe				
11. Fish	BD-07 (C)	Kankakee River, Upstream	Thres mes a	Gamma Isot.	Thress times a year	Spring, Summer, and Fall. On edible portions only. At least two species.
	BD-10	Kankakee River, Downstream				
	BD-25 (C)	Kankakee River, Upstream				
	BDSP-28	Kankakee River, Discharge				
12. Shoreline Sediments	BD-10	Kankakee River, Downstream	Semiannually	Gamma Isot.	Semiannually	On all Samples.
13. Land Use Census						
Milch Animals	a. Site boundary to 2 miles		-	a. Enumeration by a door to door or equivalent counting technique.	Annually	During grazing season.

^a Control (background) locations are denoted by a "C" in this column. All other locations are indicators.

^b Intake and discharge sample points are not required by Technical Standards. Data is provided for information only.

TABLE 5.0-2 (continued)

BRAIDWOOD STATION

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM, SAMPLE COLLECTION AND ANALYSES

Sample Media	Location		Collection Frequency	Type of Analysis	Frequency of Analysis	Remarks
	Code ^a	Site				
13. Land Use Census (continued)						
		b. 2 miles to 5 miles	--	b. Enumeration by using referenced information from county agricultural agents or other reliable sources.	Annually	During grazing season.
		c. At dairies listed in Item 5.	--	c. Inquire as to feeding practices: 1. Pasture only. 2. Feed and chop only. 3. Pasture and feed: if both, ask farmer to estimate fraction of food from pasture: <25%, 25-50%, 50-75% or >75%.	Annually	During grazing season.
	Nearest Residence Census	In all 16 sectors up to 5 miles			Annually	

^a Control (background) locations are denoted by a "C" in this column. All other locations are indicators.

TABLE 5.0-3

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM QUARTERLY SUMMARY

Name of Facility Braidwood Nuclear Power Station Docket No. 50-456, 50-457
 Location of Facility Will, Illinois Reporting Period 1st Quarter 1995
 (County, State)

Sample Type (Units)	Type and Number of Analyses	LLD	Indicator Locations Mean ^a Range	Location with Highest Quarterly Mean		Control Locations Mean ^a Range	Number of Non-routine Results				
				Location	Mean Range						
Air Particulates (pCi/m ³)	Gross Beta 117	0.01	0.022 (104/104) (0.013-0.031)	BD-21, Nearsite, NE 0.4 mi @ 43°	0.023 (13/13) (0.015-0.031)	0.021 (13/13) (0.014-0.029)	0				
	Gamma Spec. 9										
	Cs-134	0.05	<LLD					-	-	<LLD	0
	Cs-137	0.06	<LLD					-	-	<LLD	0
Airborne Iodine (pCi/m ³)	I-131 117	0.07	<LLD	-	-	<LLD	0				
Gamma Background (TLDs) (mR/Qtr.)	Gamma Dose 91	9.7	13.5 (89/89) (10.8-18.5)	BD-208-1, 4.5 mi @ 155°	18.5 (1/1)	13.1 (2/2)	0				
Milk (pCi/L)	I-131 15	1	<LLD	-	-	<LLD	0				
	Gamma Spec. 15										
	Cs-134	15	<LLD	-	-	<LLD	0				
	Cs-137	18	<LLD	-	-	<LLD	0				
	Ba-La-140	15	<LLD	-	-	<LLD	0				
	Other Gammas	15	<LLD	-	-	<LLD	0				
Well Water (pCi/L)	Gross Beta 3	4	41.3 (3/3) (38.7-44.1)	BD-13, Braidwood City Hall Well, 1.7 mi @ 30°	41.3 (3/3) (38.7-44.1)	None	0				
	Gamma Spec. 3										
	Cs-134	15	<LLD					-	-	None	0
	Cs-137	18	<LLD					-	-	None	0
	Other Gammas	15	<LLD					-	-	None	0
	Tritium 1	200	<LLD					-	-	None	0

^a Mean and range based on detectable measurements only. Fractions indicated in parentheses.

TABLE 5.0-3 (continued)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM: QUARTERLY SUMMARY

Name of Facility Braidwood Nuclear Power Station Docket No. 50-456, 50-457

Location of Facility Will, Illinois Reporting Period 1st Quarter 1995
(County, State)

Sample Type (Units)	Type and Number of Analyses	LLD	Indicator Locations Mean ^a Range	Location with Highest Quarterly Mean		Control Locations Mean ^a Range	Number of 'on-routine Results
				Location	Mean Range		
Surface Water (pCi/L)	Gamma Spec. 9						
	Cs-134 15	15	<LLD	-	-	<LLD	0
	Cs-137 18	18	<LLD	-	-	<LLD	0
	Other Gammas 15	15	<LLD	-	-	<LLD	0
	Tritium 3	200	<LLD	-	-	<LLD	0
Public Water (pCi/L)	Gross Beta 3	4	<LLD	-	-	None	0
	Gamma Spec. 3						
	Cs-134 15	15	<LLD	-	-	None	0
	Cs-137 18	18	<LLD	-	-	None	0
	Other Gammas 15	15	<LLD	-	-	None	0
	Tritium 3	200	4,570 (2/2) (2,036-7,104)	BD-22, Wilmington, 5.0 mi. @ 23°	4,570 (2/2) (2,036-7,104)	None	0
Cooling Water (pCi/L)	Gross Beta 26	4	11.2 (13/13) (4.3-63.2)	BD-09, Discharge Pipe, 5.0 mi @ 90°	11.2 (13/13) (4.3-63.2)	6.6 (13/13) (5.2-9.1)	1
	Tritium 2	200	80,825 (1/1)	BD-09, Discharge Pipe, 5.0 mi @ 90°	80,825 (1/1)	<LLD	1

^a Mean and range based on detectable measurements only. Fractions indicated in parentheses.

TABLE 5.0-4

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM QUARTERLY SUMMARY

Name of Facility Braidwood Nuclear Power Station Docket No. 50-456, 50-457Location of Facility Will, Illinois Reporting Period 2nd Quarter 1995
(County, State)

Sample Type (Units)	Type and Number of Analyses	LLD	Indicator Locations Mean ^a Range	Location with Highest Quarterly Mean		Control Locations Mean ^a Range	Number of Non-routine Results				
				Location	Mean Range						
Air Particulates (pCi/m ³)	Gross Beta 117	0.01	0.017 (102/104) (0.011-0.033)	BD-03 ^b , County Line Road 6.2 mi @ 120°	0.018 (13/13) (0.014-0.034)	0.018 (13/13) (0.012-0.034)	0				
	Gamma Spec. 9										
	Cs-134	0.05	<LLD					-	-	<LLD	0
	Cs-137	0.06	<LLD					-	-	<LLD	0
Airborne Iodine (pCi/m ³)	I-131 117	0.07	<LLD	-	-	<LLD	0				
Gamma Background (TLDs) (mR/Qtr.)	Gamma Dose 92	9.7	11.9 (90/90) (10.1-17.7)	BD-210-2, 4.9 mi @ 195°	17.7 (1/1)	11.8 (2/2)	0				
Milk (pCi/L)	I-131 25	1	<LLD	-	-	<LLD	0				
	Gamma Spec. 25										
	Cs-134	15	<LLD	-	-	<LLD	0				
	Cs-137	18	<LLD	-	-	<LLD	0				
	Ba-LA-140	15	<LLD	-	-	<LLD	0				
	Other Gammas	15	<LLD	-	-	<LLD	0				
Well Water (pCi/L)	Gross Beta 3	4	30.3 (3/3) (11.0-42.0)	BD-13, Braidwood City Hall Well, 1.7 mi @ 30°	30.3 (3/3) (11.0-42.0)	None	0				
	Gamma Spec. 3										
	Cs-134	15	<LLD					-	-	None	0
	Cs-137	18	<LLD					-	-	None	0
	Other Gammas	15	<LLD					-	-	None	0
	Tritium 1	200	<LLD					-	-	None	0

^a Mean and range based on detectable measurements only. Fractions indicated in parentheses.^b Locations BD-03 and BD-21 had identical means of 0.018 pCi/m³. Only BD-03 is detailed in this summary.

TABLE 5.0-4 (continued)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM QUARTERLY SUMMARY

Name of Facility Braidwood Nuclear Power Station Docket No. 50-456, 50-457
 Location of Facility Will, Illinois Reporting Period 2nd Quarter 1995
 (County, State)

Sample Type (Units)	Type and Number of Analyses	LLD	Indicator Locations Mean ^a Range	Location with Highest Quarterly Mean		Control Locations Mean ^a Range	Number of Non-routine Results
				Location	Mean Range		
Surface Water (pCi/L)	Gamma Spec. 9						
	Cs-134 15	15	<LLD	-	-	<LLD	0
	Cs-137 18	18	<LLD	-	-	<LLD	0
	Other Gammas 15	15	<LLD	-	-	<LLD	0
	Tritium 3 200	200	474 (1/1)	BD-10, Kankakee River, Downstream 5.0 mi @ 76°	474 (1/1)	<LLD	0
Drinking Water (pCi/L)	Gross Beta 3 4	4	<LLD	-	-	None	0
	Gamma Spec. 3						
	Cs-134 15	15	<LLD	-	-	None	0
	Cs-137 18	18	<LLD	-	-	None	0
	Other Gammas 15	15	<LLD	-	-	None	0
	Tritium 3 200	200	1,504 (3/3) (1,038-2,243)	BD-22, Wilmington, 5.0 mi @ 230°	1,504 (3/3) (1,038-2,243)	None	0
Cooling Water (pCi/L)	Gross Beta 26 4	4	10.3 (13/13) (6.2-21.0)	BD-09, Discharge Pipe, 5.0 mi @ 90°	10.3 (13/13) (6.2-21.0)	7.3 (13/13) (5.6-8.5)	0
	Tritium 2 200	200	280,874 (1/1)	BD-09, Discharge Pipe, 5.0 mi @ 90°	280,874 (1/1)	<LLD	1

^a Mean and range based on detectable measurements only. Fractions indicated in parentheses.

TABLE 5.0-4 (continued)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM QUARTERLY SUMMARY

Name of Facility Braidwood Nuclear Power Station Docket No. 50-456, 50-457
 Location of Facility Will, Illinois Reporting Period 2nd Quarter 1995
 (County, State)

Sample Type (Units)	Type and Number of Analyses	LLD	Indicator Locations Mean ^a Range	Location with Highest Quarterly Mean		Control Locations Mean ^a Range	Number of Non-routine Results
				Location	Mean Range		
Fish (pCi/g wet)	Gamma Spec. 15						
	Cs-134	0.13	<LLD	-	-	<LLD	0
	Cs-137	0.15	<LLD	-	-	<LLD	0
	Other Gammas	0.13	<LLD	-	-	<LLD	0
Bottom Sediments (pCi/g dry)	Gamma Spec. 1						
	Cs-134	0.14	<LLD	-	-	None	0
	Cs-137	0.18	<LLD	-	-	None	0
	Other Gammas	0.20	<LLD	-	-	None	0

^a Mean and range based on detectable measurements only. Fractions indicated in parentheses.

TABLE 5.0-5

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM QUARTERLY SUMMARY

Name of Facility Braidwood Nuclear Power Station Docket No. 50-456, 50-457Location of Facility Will, Illinois Reporting Period 3rd Quarter 1995

(County, State)

Sample Type (Units)	Type and Number of Analyses	LLD	Indicator Locations Mean ^a Range	Location with Highest Quarterly Mean		Control Locations Mean ^a Range	Number of Non-routine Results
				Location	Mean Range		
Air Particulates (pCi/m ³)	Gross Beta 117	0.01 ^b	0.026 (103/104) (0.013-0.046)	BD-05 ^c , Gardner 5.5 mi @ 225°	0.027 (13/13) (0.015-0.040)	0.025 (13/13) (0.016-0.035)	0
	Gamma Spec. 9						
	Cs-134	0.05	<LLD	-	-	<LLD	0
	Cs-137	0.06	<LLD	-	-	<LLD	0
Airborne Iodine (pCi/m ³)	I-131 117	0.07 ^d	<LLD	-	-	<LLD	0
Gamma Background (TLDs) (mR/Qtr.)	Gamma Dose 92	9.7	12.9 (90/90) (10.9-17.7)	BD-210-1 4.9 mi @ 195°	17.7 (1/1)	13.0 (2/2)	0
Milk (pCi/L)	I-131 30	1	<LLD	-	-	<LLD	0
	Gamma Spec. 30						
	Cs-134	15	<LLD	-	-	<LLD	0
	Cs-137	18	<LLD	-	-	<LLD	0
	Ba-La-140	15	<LLD	-	-	<LLD	0
	Other Gammas	15	<LLD	-	-	<LLD	0

^a Mean and range based on detectable measurements only. Fractions indicated in parentheses.^b One (1) result was excluded in the determination of LLD for gross beta. Higher than normal LLD (<0.032 pCi/m³) resulted from low volume due to pump malfunction.^c Locations BD-05 and BD-20 had identical means of 0.027 pCi/m³. Only BD-05 is detailed in this summary.^d LLD for airborne iodine could not be reached at one location. A value of 0.11 resulted from an extremely low volume due to air sampler pump malfunction.

TABLE 5.0-5 (continued)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM QUARTERLY SUMMARY

Name of Facility Braidwood Nuclear Power Station Docket No. 50-456, 50-457
 Location of Facility Will, Illinois Reporting Period 3rd Quarter 1995
 (County, State)

Sample Type (Units)	Type and Number of Analyses	LLD	Indicator Locations Mean ^a Range	Location with Highest Quarterly Mean		Control Locations Mean ^a Range	Number of Non-routine Results
				Location	Mean Range		
Well Water (pCi/L)	Gross Beta 3	4	36.3 (3/3) (22.6-44.8)	BD-13, Braidwood City Hall Well, 1.7 mi @ 30°	36.3 (3/3) (22.6-44.8)	None	0
	Gamma Spec. 3						
	Cs-134 15		<LLD	-	-	None	0
	Cs-137 18		<LLD	-	-	None	0
	Other Gammas 15		<LLD	-	-	None	0
	Tritium 1	200	<LLD	-	-	None	0
Surface Water (pCi/L)	Gamma Spec. 9						
	Cs-134 15		<LLD	-	-	<LLD	0
	Cs-137 18		<LLD	-	-	<LLD	0
	Other Gammas 15		<LLD	-	-	<LLD	0
	Tritium 3	200	1,275 (1/1)	BD-10, Kankakee River, Downstream, 5.0 mi @ 76°	1,275 (1/1)	<LLD	0
Drinking Water (pCi/L)	Gross Beta 3	4	4.6 (1/1)	BD-22, Wilmington, 5.0 mi @ 230°	4.6 (1/1)	None	0
	Gamma Spec. 3						
	Cs-134 15		<LLD	-	-	None	0
	Cs-137 18		<LLD	-	-	None	0
	Other Gammas 15		<LLD	-	-	None	0
	Tritium 3	200	2,253 (3/3) (1,654-2,590)	BD-22, Wilmington, 5.0 mi @ 230°	2,253 (3/3) (1,654-2,590)	None	0

^a Mean and range based on detectable measurements only. Fractions indicated in parentheses.

TABLE 5.0-5 (continued)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM QUARTERLY SUMMARY

Name of Facility Braidwood Nuclear Power Station Docket No. 50-456, 50-457Location of Facility Will, Illinois Reporting Period 3rd Quarter 1995

(County, State)

Sample Type (Units)	Type and Number of Analyses	LLD	Indicator Locations Mean ^a Range	Location with Highest Quarterly Mean		Control Locations Mean ^a Range	Number of Non-routine Results
				Location	Mean Range		
Cooling Water (pCi/L)	Gross Beta 26	4	11.4 (13/13) (7.9-25.4)	BD-09, Discharge Pipe, 5.0 mi @ 90°	11.4 (13/13) (8.0-25.4)	7.8 (13/13) (5.8-10.8)	0
	Tritium 2	200	105,434 (1/1)	BD-09, Discharge Pipe, 5.0 mi @ 90°	105,434 (1/1)	<LLD	0
Vegetation (pCi/g wet)	Gamma Spec. 12						
	Cs-134	0.06	<LLD	-	-	None	0
	Cs-137	0.08	<LLD	-	-	None	0
	Other Gammas	0.08	<LLD	-	-	None	0
	I-131 4	0.06	<LLD	-	-	None	0
Fish (pCi/g wet)	Gamma Spec. 17						
	Cs-134	0.13	<LLD	-	-	<LLD	0
	Cs-137	0.15	<LLD	-	-	<LLD	0
	Other Gammas	0.13	<LLD	-	-	<LLD	0

^a Mean and range based on detectable measurements only. Fractions indicated in parentheses.

TABLE 5.0-6

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM QUARTERLY SUMMARY

Name of Facility Braidwood Nuclear Power StationDocket No. 50-456, 50-457Location of Facility Will, IllinoisReporting Period 4th Quarter 1995

(County, State)

Sample Type (Units)	Type and Number of Analyses	LLD	Indicator Locations Mean ^a Range	Location with Highest Quarterly Mean		Control Locations Mean ^a Range	Number of Non-routine Results
				Location	Mean Range		
Air Particulates (pCi/m ³)	Gross Beta 93	0.01	0.026 (80/80) (0.015-0.038)	BD-20, Nearsite N 0.6 mi @ 10°	0.028 (13/13) (0.018-0.037)	0.026 (13/13) (0.016-0.038)	0
	Gamma Spec. 9						
	Cs-134	0.05	<LLD	-	-	<LLD	0
	Cs-137	0.06	<LLD	-	-	<LLD	0
Airborne Iodine (pCi/m ³)	I-131 93	0.07	<LLD	-	-	<LLD	0
Gamma Background (TLDs) (mR/Qtr.)	Gamma Dose 92	9.7	12.3 (90/90) (10.2-16.3)	BD-210-1, 4.9 mi @ 195°	16.3 (1/1)	11.5 (2/2)	0
Milk (pCi/L)	I-131 18	1	<LLD	-	-	<LLD	0
	Gamma Spec. 18						
	Cs-134	15	<LLD	-	-	<LLD	0
	Cs-137	18	<LLD	-	-	<LLD	0
	Ba-La-140	15	<LLD	-	-	<LLD	0
	Other Gammas	15	<LLD	-	-	<LLD	0
Well Water (pCi/L)	Gross Beta 2	4	33.0 (2/2) (26.8-39.2)	BD-13, Braidwood City Hall Well, 1.7 mi @ 30°	33.0 (2/2) (26.8-39.2)	None	0
	Gamma Spec. 6						
	Cs-134	15	<LLD	-	-	None	0
	Cs-137	18	<LLD	-	-	None	0
	Other Gammas	15	<LLD	-	-	None	0
	Tritium 5	200	631 (2/2) (606-655)	BD-36, Hutton Well, 4.7 mi @ 80°	655 (1/1)	None	0

^a Mean and range based on detectable measurements only. Fractions indicated in parentheses.

TABLE 5.0-6 (continued)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM QUARTERLY SUMMARY

Name of Facility Braidwood Nuclear Power Station Docket No. 50-456, 50-457
 Location of Facility Will, Illinois Reporting Period 4th Quarter 1995
 (County, State)

Sample Type (Units)	Type and Number of Analyses	LLD	Indicator Locations Mean ^a Range	Location with Highest Quarterly Mean		Control Locations Mean ^a Range	Number of Non-routine Results
				Location	Mean Range		
Surface Water (pCi/L)	Gamma Spec. 8						
	Cs-134 15	15	<LLD	-	-	<LLD	0
	Cs-137 18	18	<LLD	-	-	<LLD	0
	Other Gammas 15	15	<LLD	-	-	<LLD	0
	Tritium 3	200	975 (1/1)	BD-10, Kankakee River, Downstream, 5.0 mi @ 76°	975 (1/1)	<LLD	0
Drinking Water (pCi/L)	Gross Beta 3	4	4.9 (1/1)	BD-22, Wilmington, 5 mi @ 23°	4.9 (1/1)	None	0
	Gamma Spec. 3						
	Cs-134 15	15	<LLD	-	-	None	0
	Cs-137 18	18	<LLD	-	-	None	0
	Other Gammas 15	15	<LLD	-	-	None	0
	Tritium 2	200	1,886 (2/2) (1,718-2,054)	BD-22, Wilmington, 5 mi @ 23°	1,886 (2/2) (1,718-2,054)	None	2
Cooling Water (pCi/L)	Gross Beta 12	4	10.4 (6/6) (9.0-12.5)	BD-09, Discharge Pipe, 5.0 mi @ 90°	10.4 (6/6) (9.0-12.5)	9.2 (6/6) (7.1-11.2)	1
	Tritium 2	200	205 (1/1)	BD-09, Discharge Pipe, 5.0 mi @ 90°	205 (1/1)	<LLD	1

^a Mean and range based on detectable measurements only. Fractions indicated in parentheses.

TABLE 5.0-6 (continued)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM QUARTERLY SUMMARY

Name of Facility Braidwood Nuclear Power Station Docket No. 50-456, 50-457
 Location of Facility Will, Illinois Reporting Period 4th Quarter 1995
 (County, State)

Sample Type (Units)	Type and Number of Analyses	LLD	Indicator Locations Mean ^a Range	Location with Highest Quarterly Mean		Control Locations Mean ^a Range	Number of Non-routine Results
				Location	Mean Range		
Bottom Sediments (pCi/g dry)	Gamma Spec. 1						
	Cs-134	0.15	<LLD	-	-	None	0
	Cs-137	0.18	<LLD	-	-	None	0
	Other Gammas	0.20	<LLD	-	-	None	0
Fish (pCi/g wet)	Gamma Spec. 13						
	Cs-134	0.13	<LLD	-	-	<LLD	0
	Cs-137	0.15	<LLD	-	-	<LLD	0
	Other Gammas	0.13	<LLD	-	-	<LLD	0

^a Mean and range based on detectable measurements only. Fractions indicated in parentheses.

APPENDIX II

METEOROLOGICAL DATA

BRAIDWOOD NUCLEAR POWER STATION

PERIOD OF RECORD: JANUARY-MARCH 1995

STABILITY CLASS - EXTREMELY UNSTABLE (DIFF TEMP 199-30 FT)
WINDS MEASURED AT 203 FEET

WIND DIRECTION	WIND SPEED (in mph)						TOTAL
	0.9-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0
NE	0	0	1	0	0	0	1
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	0	1	0	0	1
SSE	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0
SSW	0	0	0	0	1	0	1
SW	0	0	0	0	0	0	0
WSW	0	0	0	0	0	0	0
W	0	0	0	0	0	0	0
WNW	0	0	0	0	0	1	1
NW	0	0	0	0	0	0	0
NNW	0	0	0	2	2	0	4
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	0	1	3	3	1	8

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 0
 Hours of missing stability measurements in all stability classes: 0

BRAIDWOOD NUCLEAR POWER STATION

PERIOD OF RECORD: JANUARY-MARCH 1995

STABILITY CLASS - MODERATELY UNSTABLE (DIFF TEMP 199-30 FT)
WINDS MEASURED AT 203 FEET

WIND DIRECTION	WIND SPEED (in mph)						TOTAL
	0.9-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	2	0	0	0	2
NNE	0	0	1	0	0	0	1
NE	0	0	2	0	0	0	2
ENE	0	1	1	0	0	0	2
E	0	0	1	0	1	0	2
ESE	0	0	0	0	0	0	0
SE	0	0	3	2	0	0	5
SSE	0	0	0	3	0	0	3
S	0	0	0	1	0	0	1
SSW	0	0	0	0	2	1	3
SW	0	0	0	0	0	0	0
WSW	0	0	0	0	0	0	0
W	0	0	0	0	0	0	0
WNW	0	0	0	0	3	4	7
NW	0	0	2	5	1	1	9
NNW	0	0	0	4	2	0	6
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	1	12	15	9	6	43

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 0
 Hours of missing stability measurements in all stability classes: 0

BRAIDWOOD NUCLEAR POWER STATION

PERIOD OF RECORD: JANUARY-MARCH 1995

STABILITY CLASS - SLIGHTLY UNSTABLE (DIFF TEMP 199-30 FT)
 WINDS MEASURED AT 203 FEET

WIND DIRECTION	WIND SPEED (in mph)						TOTAL
	0.9-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	0	1	0	0	1
NNE	0	1	3	0	0	0	4
NE	0	0	4	0	0	0	4
ENE	0	2	3	0	0	0	5
E	0	2	1	1	0	0	4
ESE	0	0	0	0	1	0	1
SE	0	0	3	2	0	0	5
SSE	0	0	0	0	0	0	0
S	0	0	1	0	0	0	1
SSW	0	1	0	1	5	4	11
SW	0	2	1	0	0	0	3
WSW	0	0	0	0	0	0	0
W	0	0	0	5	0	0	5
WNW	0	1	7	5	1	3	17
NW	0	0	1	5	4	0	10
NNW	0	0	3	1	0	0	4
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	9	27	21	11	7	75

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 0
 Hours of missing stability measurements in all stability classes: 0

BRAIDWOOD NUCLEAR POWER STATION

PERIOD OF RECORD: JANUARY-MARCH 1995

STABILITY CLASS - NEUTRAL (DIFF TEMP 199-30 FT)
WINDS MEASURED AT 203 FEET

WIND DIRECTION	WIND SPEED (in mph)						TOTAL
	0.9-3	4-7	8-12	13-18	19-24	> 24	
N	1	5	15	8	2	1	32
NNE	3	6	17	26	0	0	52
NE	2	4	10	20	6	0	42
ENE	2	6	16	20	3	0	47
E	1	11	24	13	2	0	51
ESE	1	1	7	9	0	0	18
SE	0	3	8	14	17	3	45
SSE	0	1	10	7	4	0	22
S	1	4	1	8	16	2	32
SSW	1	7	0	5	25	11	49
SW	2	6	16	9	9	0	42
WSW	2	9	16	26	4	0	57
W	3	18	28	43	19	0	111
WNW	1	11	31	46	40	16	145
NW	0	12	27	33	16	1	89
NNW	1	17	22	27	13	8	88
VARIABLE	0	0	0	0	0	0	0
TOTAL	21	121	248	314	176	42	922

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 0
 Hours of missing stability measurements in all stability classes: 0

BRAIDWOOD NUCLEAR POWER STATION

PERIOD OF RECORD: JANUARY-MARCH 1995

STABILITY CLASS - SLIGHTLY STABLE (DIFF TEMP 199-30 FT)
 WINDS MEASURED AT 203 FEET

WIND DIRECTION	WIND SPEED (in mph)						TOTAL
	0.9-3	4-7	8-12	13-18	19-24	> 24	
N	1	6	22	12	3	0	44
NNE	0	9	24	14	9	0	56
NE	0	5	16	10	3	5	39
ENE	1	11	22	11	4	0	49
E	1	11	31	9	3	0	55
ESE	0	2	13	28	7	4	54
SE	0	2	3	5	1	0	11
SSE	0	1	3	18	3	0	25
S	0	3	3	23	31	3	63
SSW	0	0	3	22	43	3	71
SW	0	4	6	18	7	2	37
WSW	0	3	24	22	0	3	52
W	1	4	30	29	2	6	72
WNW	0	4	52	41	8	6	111
NW	2	14	39	39	10	2	106
NNW	1	8	33	29	12	0	83
VARIABLE	0	0	0	0	0	0	0
TOTAL	7	87	324	330	146	34	928

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 3
 Hours of missing stability measurements in all stability classes: 0

BRAIDWOOD NUCLEAR POWER STATION

PERIOD OF RECORD: JANUARY-MARCH 1995

STABILITY CLASS - MODERATELY STABLE (DIFF TEMP 199-30 FT)
WINDS MEASURED AT 203 FEET

WIND DIRECTION -----	WIND SPEED (in mph)						TOTAL -----
	0.9-3 -----	4-7 -----	8-12 -----	13-18 -----	19-24 -----	> 24 -----	
N	1	2	3	3	0	0	9
NNE	0	3	4	0	0	0	7
NE	0	1	2	0	0	0	3
ENE	1	6	2	1	0	0	10
E	0	1	5	3	0	0	9
ESE	1	2	0	4	0	0	7
SE	0	1	0	4	0	0	5
SSE	0	3	8	7	0	0	18
S	0	1	2	0	0	0	3
SSW	0	0	1	0	0	0	1
SW	2	1	0	1	0	0	4
WSW	1	0	2	1	0	0	4
W	0	0	9	6	0	0	15
WNW	1	3	9	0	0	0	13
NW	2	6	7	3	0	0	18
NNW	0	5	8	0	0	0	13
VARIABLE	0	0	0	0	0	0	0
TOTAL	9	35	62	33	0	0	139

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 0
 Hours of missing stability measurements in all stability classes: 0

BRAIDWOOD NUCLEAR POWER STATION

PERIOD OF RECORD: JANUARY-MARCH 1995

STABILITY CLASS - EXTREMELY STABLE (DIFF TEMP 199-30 FT)
 WINDS MEASURED AT 203 FEET

WIND DIRECTION	WIND SPEED (in mph)						TOTAL
	0.9-3	4-7	8-12	13-18	19-24	> 24	
N	3	0	0	1	0	0	4
NNE	1	0	0	0	0	0	1
NE	0	1	0	1	0	0	2
ENE	0	0	0	0	0	0	0
E	1	2	1	0	0	0	4
ESE	2	0	1	0	0	0	3
SE	1	0	2	3	2	0	8
SSE	0	5	1	2	1	0	9
S	0	0	0	0	0	0	0
SSW	0	0	0	0	0	0	0
SW	3	0	0	0	0	0	3
WSW	0	1	0	0	0	0	1
W	0	0	0	2	0	0	2
WNW	0	0	2	0	0	0	2
NW	0	1	2	0	0	0	3
NNW	0	0	0	0	0	0	0
VARIABLE	0	0	0	0	0	0	0
TOTAL	11	10	9	9	3	0	42

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 0
 Hours of missing stability measurements in all stability classes: 0

BRAIDWOOD NUCLEAR POWER STATION

PERIOD OF RECORD: APRIL-JUNE 1995

STABILITY CLASS - EXTREMELY UNSTABLE (DIFF TEMP 199-30 FT)
WINDS MEASURED AT 203 FEET

WIND DIRECTION	WIND SPEED (in mph)						TOTAL
	0.9-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	1	1	0	0	2
NNE	0	0	4	3	0	0	7
NE	0	1	6	2	0	0	9
ENE	1	6	1	0	0	0	8
E	0	5	4	0	0	0	9
ESE	0	3	2	0	0	0	5
SE	0	0	1	0	0	1	2
SSE	0	0	0	0	0	0	0
S	0	0	4	5	0	0	9
SSW	0	0	1	3	2	1	7
SW	0	0	1	2	0	0	3
WSW	0	0	0	0	0	0	0
W	0	0	2	0	0	0	2
WNW	0	0	1	0	0	0	1
NW	0	0	2	4	1	2	9
NNW	0	0	9	0	0	0	9
VARIABLE	0	0	0	0	0	0	0
TOTAL	1	15	39	20	3	4	82

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 0
 Hours of missing stability measurements in all stability classes: 0

BRAIDWOOD NUCLEAR POWER STATION

PERIOD OF RECORD: APRIL-JUNE 1995

STABILITY CLASS - MODERATELY UNSTABLE (DIFF TEMP 199-30 FT)
WINDS MEASURED AT 203 FEET

WIND DIRECTION	WIND SPEED (in mph)						TOTAL
	0.9-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	3	0	0	0	3
NNE	0	0	4	3	0	0	7
NE	0	1	1	2	0	0	4
ENE	0	2	0	0	0	0	2
E	2	3	1	3	0	0	9
ESE	0	5	1	0	0	0	6
SE	0	2	0	0	0	0	2
SSE	0	0	2	3	0	0	5
S	0	0	0	1	0	0	1
SSW	0	0	0	1	0	0	1
SW	0	0	0	1	0	0	1
WSW	0	3	1	0	0	0	4
W	0	1	0	0	0	0	1
WNW	0	0	1	2	2	0	5
NW	0	1	2	4	0	1	8
NNW	0	1	3	1	0	0	5
VARIABLE	0	0	0	0	0	0	0
TOTAL	2	19	19	21	2	1	64

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 0
 Hours of missing stability measurements in all stability classes: 0

BRAIDWOOD NUCLEAR POWER STATION

PERIOD OF RECORD: APRIL-JUNE 1995

STABILITY CLASS - SLIGHTLY UNSTABLE (DIFF TEMP 199-30 FT)
WINDS MEASURED AT 203 FEET

WIND DIRECTION	WIND SPEED (in mph)						TOTAL
	0.9-3	4-7	8-12	13-18	19-24	> 24	
N	0	2	1	1	0	0	4
NNE	0	1	1	2	0	0	4
NE	0	1	5	1	0	0	7
ENE	0	4	4	0	0	0	8
E	0	4	3	1	0	0	8
ESE	1	1	5	1	1	0	9
SE	0	1	0	0	0	1	2
SSE	0	2	0	1	2	0	5
S	0	2	3	0	1	0	6
SSW	0	2	7	2	0	1	12
SW	0	0	3	1	0	0	4
WSW	0	0	2	3	0	0	5
W	0	0	1	1	0	0	2
WNW	0	3	7	5	3	0	18
NW	0	2	6	9	1	0	18
NNW	0	0	8	3	0	0	11
VARIABLE	0	0	0	0	0	0	0
TOTAL	1	25	56	31	8	2	123

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 0
 Hours of missing stability measurements in all stability classes: 0

BRAIDWOOD NUCLEAR POWER STATION

PERIOD OF RECORD: APRIL-JUNE 1995

STABILITY CLASS - NEUTRAL (DIFF TEMP 199-30 FT)
WINDS MEASURED AT 203 FEET

WIND DIRECTION	WIND SPEED (in mph)						TOTAL
	0.3-3	4-7	8-12	13-18	19-24	> 24	
N	0	10	8	1	0	0	19
NNE	6	9	14	18	1	0	48
NE	4	17	25	52	5	0	103
ENE	1	11	19	17	5	0	53
E	8	10	12	7	3	3	43
ESE	2	2	5	9	10	6	34
SE	0	7	9	2	5	1	24
SSE	1	6	9	6	4	4	30
S	3	6	10	7	4	0	30
SSW	0	4	7	4	4	12	31
SW	1	4	11	10	4	6	36
WSW	0	9	14	8	12	3	46
W	0	6	18	10	21	2	57
WNW	0	10	15	12	23	2	62
NW	1	18	10	19	5	1	54
NNW	0	14	4	10	2	0	30
VARIABLE	0	0	0	0	0	0	0
TOTAL	27	143	190	192	108	40	700

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 4
 Hours of missing stability measurements in all stability classes: 0

BRAIDWOOD NUCLEAR POWER STATION

PERIOD OF RECORD: APRIL-JUNE 1995

STABILITY CLASS - SLIGHTLY STABLE (DIFF TEMP 199-30 FT)
WINDS MEASURED AT 203 FEET

WIND DIRECTION	WIND SPEED (in mph)						TOTAL
	0.9-3	4-7	8-12	13-18	19-24	> 24	
N	2	4	6	4	0	0	16
NNE	1	5	11	14	2	1	34
NE	0	8	41	23	6	9	87
ENE	2	9	55	18	5	5	94
E	2	14	47	19	8	1	91
ESE	1	2	11	17	18	12	61
SE	0	3	8	14	14	4	43
SSE	0	8	23	18	2	0	51
S	0	3	17	33	9	6	68
SSW	0	4	19	16	11	12	64
SW	1	12	14	10	6	3	46
WSW	1	3	20	26	7	4	61
W	0	4	16	24	6	6	56
WNW	1	2	25	20	8	2	58
NW	0	6	17	23	4	5	55
NNW	2	2	7	1	1	0	13
VARIABLE	0	0	0	0	0	0	0
TOTAL	13	89	337	282	107	70	898

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 1
 Hours of missing stability measurements in all stability classes: 0

BRAIDWOOD NUCLEAR POWER STATION

PERIOD OF RECORD: APRIL-JUNE 1995

STABILITY CLASS - MODERATELY STABLE (DIFF TEMP 199-30 FT)
 WINDS MEASURED AT 203 FEET

WIND DIRECTION	WIND SPEED (in mph)						TOTAL
	0.9-3	4-7	8-12	13-18	19-24	> 24	
N	1	6	3	7	0	0	17
NNE	2	4	6	2	0	0	14
NE	0	4	3	1	0	1	9
ENE	2	2	7	2	0	0	13
E	0	1	8	1	0	0	10
ESE	0	1	10	4	0	0	15
SE	0	4	8	0	0	0	12
SSE	0	2	7	4	0	0	13
S	0	2	6	0	0	0	8
SSW	0	0	6	0	0	0	6
SW	1	2	5	4	0	0	12
WSW	0	1	3	11	0	0	15
W	1	1	6	17	0	3	28
WNW	0	1	13	7	0	0	21
NW	0	1	8	7	0	0	16
NNW	1	3	9	2	0	0	15
VARIABLE	0	0	0	0	0	0	0
TOTAL	8	35	108	69	0	4	224

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 0
 Hours of missing stability measurements in all stability classes: 0

BRAIDWOOD NUCLEAR POWER STATION

PERIOD OF RECORD: APRIL-JUNE 1995

STABILITY CLASS - EXTREMELY STABLE (DIFF TEMP 199-30 FT)
WINDS MEASURED AT 203 FEET

WIND DIRECTION	WIND SPEED (in mph)						TOTAL
	0.9-3	4-7	8-12	13-18	19-24	> 24	
N	2	1	1	0	0	0	4
NNE	0	1	1	0	0	0	2
NE	1	2	1	0	0	0	4
ENE	1	1	0	0	0	0	2
E	0	3	0	0	0	0	3
ESE	0	0	1	0	0	0	1
SE	0	4	4	4	0	0	12
SSE	1	3	3	0	0	0	7
S	0	3	0	0	0	0	3
SSW	0	1	0	0	0	0	1
SW	1	4	3	1	0	0	9
WSW	0	3	1	0	0	0	4
W	0	1	1	4	0	0	6
WNW	0	4	3	9	0	0	16
NW	1	0	1	5	0	0	7
NNW	1	1	4	1	0	0	7
VARIABLE	0	0	0	0	0	0	0
TOTAL	8	32	24	24	0	0	88

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 0
 Hours of missing stability measurements in all stability classes: 0

BRAIDWOOD NUCLEAR POWER STATION

PERIOD OF RECORD: JULY-SEPTEMBER 1995

STABILITY CLASS - EXTREMELY UNSTABLE (DIFF TEMP 199-30 FT)
WINDS MEASURED AT 203 FEET

WIND DIRECTION	WIND SPEED (in mph)						TOTAL
	0.9-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	1	2	0	0	3
NNE	0	0	1	1	0	0	2
NE	0	0	4	2	0	0	6
ENE	0	1	4	0	0	0	5
E	0	3	1	0	0	0	4
ESE	0	1	1	0	0	0	2
SE	0	1	1	0	0	0	2
SSE	0	2	5	1	0	0	8
S	0	2	5	12	1	1	21
SSW	0	0	5	8	1	0	14
SW	0	0	1	3	0	0	4
WSW	0	3	6	1	0	0	10
W	0	3	8	1	0	0	12
WNW	0	1	2	5	5	0	13
NW	0	0	2	15	1	0	18
NNW	0	0	5	6	0	0	11
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	17	52	57	8	1	135

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 0
 Hours of missing stability measurements in all stability classes: 1

BRAIDWOOD NUCLEAR POWER STATION

PERIOD OF RECORD: JULY-SEPTEMBER 1995

STABILITY CLASS - MODERATELY UNSTABLE (DIFF TEMP 199-30 FT)
WINDS MEASURED AT 203 FEET

WIND DIRECTION	WIND SPEED (in mph)						TOTAL
	0.9-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	4	1	0	0	5
NNE	0	1	2	0	0	0	3
NE	0	0	2	0	0	0	2
ENE	0	2	1	0	0	0	3
E	0	0	1	0	0	0	1
ESE	1	2	4	0	0	0	7
SE	0	4	8	0	0	0	12
SSE	0	6	11	0	0	0	17
S	0	0	5	3	0	1	9
SSW	0	3	5	3	1	1	13
SW	0	4	7	5	1	0	17
WSW	0	1	14	5	0	0	20
W	0	9	9	3	0	0	21
WNW	0	2	3	6	2	0	13
NW	0	1	1	3	1	0	6
NNW	0	1	3	3	0	0	7
VARIABLE	0	0	0	0	0	0	0
TOTAL	1	36	80	32	5	2	156

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 0
 Hours of missing stability measurements in all stability classes: 1

BRAIDWOOD NUCLEAR POWER STATION

PERIOD OF RECORD: JULY-SEPTEMBER 1995

STABILITY CLASS - SLIGHTLY UNSTABLE (DIFF TEMP 199-30 FT)
WINDS MEASURED AT 203 FEET

WIND DIRECTION	WIND SPEED (in mph)						TOTAL
	0.9-3	4-7	8-12	13-18	19-24	> 24	
N	0	3	1	1	0	0	5
NNE	1	1	1	1	0	0	4
NE	0	0	0	1	0	0	1
ENE	0	1	2	0	0	0	3
E	0	4	1	0	0	0	5
ESE	0	6	1	0	0	0	7
SE	0	7	6	1	0	0	14
SSE	0	9	4	1	0	0	14
S	0	5	3	2	1	1	12
SSW	0	1	4	0	1	2	8
SW	0	2	9	2	0	0	12
WSW	0	6	8	1	0	0	15
W	0	13	3	2	0	0	18
WNW	0	2	1	2	0	0	5
NW	0	3	2	3	0	0	8
NNW	0	1	3	1	0	0	5
VARIABLE	0	0	0	0	0	0	0
TOTAL	1	64	48	18	2	3	136

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 0
 Hours of missing stability measurements in all stability classes: 1

BRAIDWOOD NUCLEAR POWER STATION

PERIOD OF RECORD: JULY-SEPTEMBER 1995

STABILITY CLASS - NEUTRAL (DIFF TEMP 199-30 FT)
WINDS MEASURED AT 203 FEET

WIND DIRECTION	WIND SPEED (in mph)						TOTAL
	0.9-3	4-7	8-12	13-18	19-24	> 24	
N	1	6	22	6	1	0	36
NNE	3	3	8	8	0	0	22
NE	4	5	9	12	1	0	31
ENE	8	6	10	1	0	0	25
E	2	13	3	0	0	0	18
ESE	1	6	5	0	0	0	12
SE	2	16	15	2	1	0	36
SSE	2	17	12	16	2	1	50
S	1	9	9	11	6	5	41
SSW	2	12	6	11	7	4	42
SW	0	14	28	19	2	0	63
WSW	1	14	28	8	1	0	52
W	2	13	16	4	7	5	47
WNW	2	10	10	3	2	0	27
NW	5	15	4	8	0	0	32
NNW	3	9	11	7	1	0	31
VARIABLE	0	0	0	0	0	0	0
TOTAL	39	168	196	116	31	15	565

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 1
 Hours of missing stability measurements in all stability classes: 1

BRAIDWOOD NUCLEAR POWER STATION

PERIOD OF RECORD: JULY-SEPTEMBER 1995

STABILITY CLASS - SLIGHTLY STABLE (DIFF TEMP 199-30 FT)
WINDS MEASURED AT 203 FEET

WIND DIRECTION	WIND SPEED (in mph)						TOTAL
	0.9-3	4-7	8-12	13-18	19-24	> 24	
N	0	9	17	12	0	0	38
NNE	0	3	4	2	0	0	9
NE	1	10	18	9	0	0	38
ENE	0	13	19	1	0	0	33
E	2	6	34	0	0	0	42
ESE	0	4	32	4	0	0	40
SE	0	13	27	19	1	0	60
SSE	1	7	31	23	8	3	73
S	3	13	29	25	13	5	88
SSW	0	9	29	48	15	1	102
SW	2	15	37	31	2	0	87
WSW	1	9	37	17	0	0	64
W	2	11	24	9	0	1	47
WNW	0	5	11	6	0	0	22
NW	1	7	13	0	0	0	21
NNW	2	1	17	5	0	0	25
VARIABLE	0	0	0	0	0	0	0
TOTAL	15	135	379	211	39	10	789

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 0
 Hours of missing stability measurements in all stability classes: 1

BRAIDWOOD NUCLEAR POWER STATION

PERIOD OF RECORD: JULY-SEPTEMBER 1995

STABILITY CLASS - MODERATELY STABLE (DIFF TEMP 199-30 FT)
WINDS MEASURED AT 203 FEET

WIND DIRECTION	WIND SPEED (in mph)						TOTAL
	0.9-3	4-7	8-12	13-18	19-24	> 24	
N	0	2	5	4	0	0	11
NNE	0	3	8	0	0	0	11
NE	0	2	6	2	0	0	10
ENE	0	9	6	0	0	0	15
E	1	5	12	2	0	0	20
ESE	0	1	12	7	0	0	20
SE	1	6	9	15	0	0	31
SSE	1	9	4	0	1	0	15
S	0	11	9	8	1	0	29
SSW	0	7	11	1	0	0	19
SW	2	9	10	4	1	0	26
WSW	2	6	11	11	0	0	30
W	1	4	12	9	0	0	26
WNW	0	2	6	6	0	0	14
NW	0	3	8	0	0	0	11
NNW	0	2	4	1	0	0	7
VARIABLE	0	0	0	0	0	0	0
TOTAL	8	81	133	70	3	0	295

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 0
 Hours of missing stability measurements in all stability classes: 1

BRAIDWOOD NUCLEAR POWER STATION

PERIOD OF RECORD: JULY-SEPTEMBER 1995

STABILITY CLASS - EXTREMELY STABLE (DIFF TEMP 199-30 FT)
WINDS MEASURED AT 203 FEET

WIND DIRECTION	WIND SPEED (in mph)						TOTAL
	0.9-3	4-7	8-12	13-18	19-24	> 24	
N	0	3	2	0	0	0	5
NNE	1	2	2	2	0	0	7
NE	0	0	0	2	0	0	2
ENE	0	0	1	0	0	0	1
E	0	1	3	2	0	0	6
ESE	1	2	3	3	0	0	9
SE	1	3	5	2	0	0	11
SSE	1	10	0	0	0	0	11
S	1	7	1	0	0	0	9
SSW	0	6	2	0	0	0	8
SW	1	6	4	0	0	0	11
WSW	1	6	3	0	0	0	10
W	0	7	5	4	0	0	16
WNW	1	1	6	3	0	0	11
NW	0	0	4	3	0	0	7
NNW	0	1	5	0	0	0	6
VARIABLE	0	0	0	0	0	0	0
TOTAL	8	55	46	21	0	0	130

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 0
 Hours of missing stability measurements in all stability classes: 1

BRAIDWOOD NUCLEAR POWER STATION

PERIOD OF RECORD: OCTOBER-DECEMBER 1995

STABILITY CLASS - EXTREMELY UNSTABLE (DIFF TEMP 199-30 FT)
 WINDS MEASURED AT 203 FEET

WIND DIRECTION	WIND SPEED (in mph)						TOTAL
	0.9-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0
SSW	0	0	0	3	0	0	3
SW	0	0	0	0	0	0	0
WSW	0	0	0	0	0	0	0
W	0	0	0	0	0	0	0
WNW	0	0	0	1	0	0	1
NW	0	0	0	1	0	0	1
NNW	0	0	0	0	0	0	0
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	0	0	5	0	0	5

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 0
 Hours of missing stability measurements in all stability classes: 1

BRAIDWOOD NUCLEAR POWER STATION

PERIOD OF RECORD: OCTOBER-DECEMBER 1995

STABILITY CLASS - MODERATELY UNSTABLE (DIFF TEMP 199-30 FT)
WINDS MEASURED AT 203 FEET

WIND DIRECTION	WIND SPEED (in mph)						TOTAL
	0.9-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	1	0	0	0	1
NNE	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	0	1	0	0	0	0	1
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0
SSW	0	1	2	2	4	0	9
SW	0	0	0	1	0	0	1
WSW	0	0	0	0	0	0	0
W	0	0	0	0	0	0	0
WNW	0	0	0	2	0	0	2
NW	0	0	2	6	0	0	8
NNW	0	0	1	0	0	0	1
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	2	6	11	4	0	23

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 0
 Hours of missing stability measurements in all stability classes: 1

BRAIDWOOD NUCLEAR POWER STATION

PERIOD OF RECORD: OCTOBER-DECEMBER 1995

STABILITY CLASS - SLIGHTLY UNSTABLE (DIFF TEMP 199-30 FT)
WINDS MEASURED AT 203 FEET

WIND DIRECTION	WIND SPEED (in mph)						TOTAL
	0.9-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	0	1	0	0	1
NNE	0	0	0	0	0	0	0
NE	0	1	0	0	0	0	1
ENE	0	2	0	0	0	0	2
E	0	2	1	0	0	0	3
ESE	0	1	0	0	0	0	1
SE	0	1	0	0	0	0	1
SSE	0	0	0	0	0	0	0
S	0	5	0	1	1	1	8
SSW	0	2	4	2	4	2	14
SW	0	0	0	2	0	0	2
WSW	0	0	0	0	0	0	0
W	0	0	0	0	0	0	0
WNW	0	0	0	8	0	0	8
NW	0	0	2	8	3	0	13
NNW	0	0	2	0	0	0	2
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	14	9	22	8	3	56

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 0
 Hours of missing stability measurements in all stability classes: 1

BRAIDWOOD NUCLEAR POWER STATION

PERIOD OF RECORD: OCTOBER-DECEMBER 1995

STABILITY CLASS - NEUTRAL (DIFF TEMP 199-30 FT)
WINDS MEASURED AT 203 FEET

WIND DIRECTION	WIND SPEED (in mph)						TOTAL
	0.9-3	4-7	8-12	13-18	19-24	> 24	
N	0	6	6	2	3	0	17
NNE	1	5	2	3	1	0	12
NE	2	8	15	9	4	0	38
ENE	4	11	25	10	0	0	50
E	1	7	4	13	1	0	26
ESE	0	2	3	7	2	0	14
SE	0	1	5	7	6	0	19
SSE	1	1	5	16	9	7	39
S	0	8	8	22	23	13	74
SSW	2	7	5	12	14	7	47
SW	0	6	8	17	7	0	38
WSW	1	2	6	31	10	2	52
W	0	5	25	45	38	12	125
WNW	3	7	23	52	21	21	127
NW	0	12	46	29	14	7	108
NNW	1	9	22	10	4	4	50
VARIABLE	0	0	0	0	0	0	0
TOTAL	16	97	208	285	157	73	836

Hours of calm in this stability class: C
 Hours of missing wind measurements in this stability class: 0
 Hours of missing stability measurements in all stability classes: 1

BRAIDWOOD NUCLEAR POWER STATION

PERIOD OF RECORD: OCTOBER-DECEMBER 1995

STABILITY CLASS - SLIGHTLY STABLE (DIFF TEMP 199-30 FT)
WINDS MEASURED AT 203 FEET

WIND DIRECTION	WIND SPEED (in mph)						TOTAL
	0.9-3	4-7	8-12	13-18	19-24	> 24	
N	0	4	11	3	0	3	21
NNE	0	5	0	3	3	3	14
NE	2	9	3	3	7	7	31
ENE	1	3	22	13	0	0	39
E	2	7	20	5	0	0	34
ESE	1	4	6	9	4	0	24
SE	0	7	16	11	7	2	43
SSE	1	2	14	15	23	10	65
S	0	4	12	46	34	17	113
SSW	1	1	4	20	32	21	79
SW	1	6	13	12	10	4	46
WSW	1	8	20	29	16	3	77
W	1	3	25	36	11	9	85
WNW	3	3	28	57	27	11	129
NW	2	7	25	28	4	2	68
NNW	0	10	41	21	1	1	74
VARIABLE	1	0	0	0	0	0	1
TOTAL	17	83	260	311	179	93	943

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 0
 Hours of missing stability measurements in all stability classes: 1

BRAIDWOOD NUCLEAR POWER STATION

PERIOD OF RECORD: OCTOBER-DECEMBER 1995

STABILITY CLASS - MODERATELY STABLE (DIFF TEMP 199-30 FT)
 WINDS MEASURED AT 203 FEET

WIND DIRECTION	WIND SPEED (in mph)						TOTAL
	0.9-3	4-7	8-12	13-18	19-24	> 24	
N	1	7	11	0	0	0	19
NNE	0	3	2	0	0	1	6
NE	0	1	0	0	0	7	8
ENE	1	1	1	0	0	0	3
E	2	1	5	2	0	0	10
ESE	0	1	3	3	0	0	7
SE	0	0	4	3	0	0	7
SSE	0	2	7	3	2	0	14
S	0	1	2	8	1	0	12
SSW	3	1	5	6	2	0	17
SW	0	2	5	18	1	0	26
WSW	1	2	3	8	0	0	14
W	0	0	15	20	0	0	35
WNW	1	3	7	21	0	0	32
NW	0	5	29	7	0	0	41
NNW	1	5	17	0	0	0	23
VARIABLE	0	0	0	0	0	0	0
TOTAL	10	35	116	99	6	8	274

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 0
 Hours of missing stability measurements in all stability classes: 1

BRAIDWOOD NUCLEAR POWER STATION

PERIOD OF RECORD: OCTOBER-DECEMBER 1995

STABILITY CLASS - EXTREMELY STABLE (DIFF TEMP 199-30 FT)
WINDS MEASURED AT 203 FEET

WIND DIRECTION	WIND SPEED (in mph)						TOTAL
	0.9-3	4-7	8-12	13-18	19-24	> 24	
N	0	2	2	0	0	0	4
NNE	0	0	1	0	0	0	1
NE	1	0	1	0	0	0	2
ENE	0	0	0	0	0	0	0
E	0	2	2	1	0	0	5
ESE	0	0	2	1	0	0	3
SE	0	0	0	5	0	0	5
SSE	0	1	2	3	0	0	6
S	0	0	0	0	0	0	0
SSW	0	3	4	0	0	0	7
SW	0	6	1	0	0	0	7
WSW	1	2	3	0	0	0	6
W	0	0	0	6	0	0	6
WNW	1	3	0	4	0	0	8
NW	0	0	5	1	0	0	6
NNW	1	1	2	0	0	0	4
VARIABLE	0	0	0	0	0	0	0
TOTAL	4	20	25	21	0	0	70

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 0
 Hours of missing stability measurements in all stability classes: 1

APPENDIX III

1995 REMP SAMPLE RESULTS

BRAIDWOOD

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BRAIDWOOD

1.0 INTRODUCTION

The following constitutes the final, 1995 Monthly Progress Report for the Radiological Environmental Monitoring Program conducted at the Braidwood Station, Braceville, Illinois. Results of completed analyses are presented in the attached tables. Missing entries indicate analyses that are not completed and the result will appear in subsequent reports.

Data obtained in the program are well within the ranges previously encountered in the program and to be expected in the environmental media sampled.

For all gamma isotopic analyses, spectrum is computer scanned from 80 to 2048 KeV. Specifically included are Mn-54, Fe-59, Co-58, Co-60, Zn-65, Zr-95, Nb-95, Ru-103, Ru-106, I-131, Ba-La-140, Cs-134, Cs-137, Ce-141, and Ce-144. Naturally occurring gamma-emitters, such as K-40 and Ra daughters, are frequently detected but not listed here. The data is reported in the format of $x \pm 2s; 2TPU$, where "x" is the significant result, "s" is the one standard deviation counting uncertainty, and TPU is the total propagated uncertainty at the one sigma confidence level.

All concentrations, except for gross beta, are decay corrected to the date of collection.

Deviations from Scheduled Sampling and Corrective Actions Taken

All samples were collected within the scheduled period unless notes otherwise in the Listing of Missed Samples.

Unusual Environmental Results

Sample Type	Location	Date Collected	Comments
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BRAIDWOOD

2.0 LISTING OF MISSED SAMPLES

Sample Type	Location	Expected Collection Date	Reason
TLD	BD-206-1	06-30-95	Missing from locaton.
TLD	BD-305-2	10-06-95	Missing from locaton.

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3.0 LISTING OF SAMPLE ANOMALIES

Sample Type	Location	Collection Date	Comments
AP/I	BD-05	04-14-95	Filter light.
AP/I	BD-01	07-14-95	Volume low due to temporary power outage; sample volume not significantly affected.
AP/I	BD-02	07-14-95	Volume low due to temporary power outage; sample volume not significantly affected.
AP/I	BD-06	07-14-95	Volume low due to temporary power outage; sample volume not significantly affected.
AP/I	BD-19	07-14-95	Volume low due to temporary power outage; sample volume not significantly affected.
AP/I	BD-21	08-25-95	Volume low due to pump malfunction; replaced pump.
AP/I	BD-19	11-03-95	Volume low; timer malfunction; installed new timer.
AP/I	BD-21	12-15-95	Volume estimated.

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Table 1. Airborne Particulates and Iodine I-131
 Collection: Continuous; weekly exchange
 Required LLD: 0.01 pCi/m³ for Gross Beta and 0.07 pCi/m³ for I-131
 Units: 10⁻² pCi/m³

BD-01 Braidwood							
Date Collected	Volume (m ³)	Gross Beta	I-131	Date Collected	Volume (m ³)	Gross Beta	I-131
01-06-95	283	2.0 ± 0.3 ; 0.5	1.5 ± 1.7 ; 1.7	07-07-95	280	1.6 ± 0.3 ; 0.4	0.1 ± 1.6 ; 1.6
01-13-95	286	2.6 ± 0.3 ; 0.6	0.1 ± 1.2 ; 1.2	07-14-95	265 ^a	2.6 ± 0.3 ; 0.6	-0.3 ± 1.6 ; 1.6
01-20-95	280	1.5 ± 0.3 ; 0.4	0.4 ± 1.3 ; 1.3	07-21-95	274	3.0 ± 0.3 ; 0.6	0.1 ± 1.5 ; 1.5
01-27-95	285	1.9 ± 0.3 ; 0.5	0.9 ± 1.2 ; 1.2	07-27-95	244	1.8 ± 0.3 ; 0.5	-0.6 ± 1.3 ; 1.3
02-03-95	296	2.8 ± 0.3 ; 0.6	0.5 ± 1.1 ; 1.1	08-03-95	297	2.0 ± 0.3 ; 0.5	-0.7 ± 1.5 ; 1.5
02-10-95	275	2.5 ± 0.3 ; 0.5	-0.2 ± 1.4 ; 1.4	08-12-95	357	2.3 ± 0.3 ; 0.5	0.7 ± 1.6 ; 1.6
02-17-95	285	2.6 ± 0.3 ; 0.6	-1.2 ± 1.8 ; 1.8	08-18-95	233	2.4 ± 0.4 ; 0.6	-0.4 ± 1.8 ; 1.8
02-24-95	285	2.7 ± 0.3 ; 0.6	0.6 ± 1.1 ; 1.1	08-25-95	285	2.1 ± 0.3 ; 0.5	-0.5 ± 1.5 ; 1.5
03-03-95	291	1.6 ± 0.3 ; 0.4	0.8 ± 1.1 ; 1.1	09-01-95	291	4.1 ± 0.4 ; 0.8	-0.6 ± 1.7 ; 1.7
03-10-95	283	2.2 ± 0.3 ; 0.5	-0.8 ± 1.2 ; 1.2	09-08-95	279	3.2 ± 0.3 ; 0.7	-0.6 ± 1.4 ; 1.4
03-17-95	282	2.7 ± 0.3 ; 0.6	-0.2 ± 1.4 ; 1.4	09-15-95	313	2.4 ± 0.3 ; 0.5	1.7 ± 1.1 ; 1.1
03-24-95	285	1.8 ± 0.3 ; 0.4	-0.6 ± 0.9 ; 0.9	09-22-95	290	1.8 ± 0.3 ; 0.4	-1.0 ± 1.2 ; 1.2
03-31-95	287	1.5 ± 0.3 ; 0.4	0.2 ± 1.2 ; 1.2	09-29-95	287	3.9 ± 0.4 ; 0.8	2.0 ± 1.2 ; 1.2
1st Qtr. Mean ± s.d.		2.2 ± 0.5	0.2 ± 0.7	3rd Qtr. Mean ± s.d.		2.5 ± 0.8	0.0 ± 0.9
04-07-95	280	1.9 ± 0.3 ; 0.5	0.0 ± 1.0 ; 1.0	10-06-95	285	3.5 ± 0.4 ; 0.7	0.2 ± 1.1 ; 1.1
04-14-95	287	1.6 ± 0.3 ; 0.4	-0.6 ± 1.0 ; 1.0	10-13-95	285	3.5 ± 0.3 ; 0.7	-0.4 ± 1.2 ; 1.2
04-21-95	286	1.4 ± 0.3 ; 0.4	0.5 ± 1.1 ; 1.1	10-20-95	284	2.2 ± 0.3 ; 0.5	-0.4 ± 1.1 ; 1.1
04-28-95	293	1.7 ± 0.3 ; 0.4	-0.4 ± 1.2 ; 1.2	10-27-95	292	1.8 ± 0.3 ; 0.4	-0.1 ± 1.3 ; 1.3
05-05-95	283	1.2 ± 0.3 ; 0.3	-0.2 ± 1.3 ; 1.3	11-03-95	285	2.0 ± 0.3 ; 0.5	1.6 ± 1.5 ; 1.5
05-12-95	280	1.2 ± 0.3 ; 0.4	0.4 ± 1.1 ; 1.1	11-10-95	285	2.5 ± 0.3 ; 0.6	0.7 ± 1.0 ; 1.0
05-19-95	281	1.3 ± 0.3 ; 0.3	-0.2 ± 1.1 ; 1.1	11-17-95	287	2.1 ± 0.3 ; 0.5	2.5 ± 1.5 ; 1.5
05-26-95	297	1.4 ± 0.2 ; 0.4	-0.5 ± 1.1 ; 1.1	11-24-95	NS ^b	-	-
06-02-95	275	1.5 ± 0.3 ; 0.4	-0.8 ± 1.6 ; 1.6	4th Qtr. Mean ± s.d.		2.5 ± 0.6	0.6 ± 1.0
06-09-95	285	1.3 ± 0.3 ; 0.4	0.4 ± 1.4 ; 1.4				
06-16-95	296	1.7 ± 0.3 ; 0.4	-1.2 ± 1.2 ; 1.2				
06-23-95	284	3.2 ± 0.4 ; 0.7	1.0 ± 1.1 ; 1.1				
06-30-95	284	2.2 ± 0.3 ; 0.5	0.6 ± 1.9 ; 1.9				
2nd Qtr. Mean ± s.d.		1.7 ± 0.5	-0.1 ± 0.6				

^a Volume low due to a temporary power outage; sample volume not significantly affected.

^b Sampling location deleted from the program in accordance with UREMP. UREMP was implemented on 11-17-95.

BRAIDWOOD

Table 1. Airborne Particulates and Iodine I-131
 Collection: Continuous; weekly exchange
 Required LLD: 0.01 pCi/m³ for Gross Beta and 0.07 pCi/m³ for I-131
 Units: 10² pCi/m³

BD-02 Custer Park							
Date Collected	Volume (m ³)	Gross Beta	I-131	Date Collected	Volume (m ³)	Gross Beta	I-131
01-06-95	283	1.7 ± 0.3 ; 0.4	0.2 ± 1.6 ; 1.6	07-07-95	279	1.4 ± 0.3 ; 0.4	-0.2 ± 0.9 ; 0.9
01-13-95	290	2.1 ± 0.3 ; 0.5	-0.3 ± 1.2 ; 1.2	07-14-95	264 ^a	2.5 ± 0.3 ; 0.6	-0.1 ± 1.6 ; 1.6
01-20-95	275	1.6 ± 0.3 ; 0.4	1.0 ± 1.2 ; 1.2	07-21-95	279	3.3 ± 0.3 ; 0.7	-0.5 ± 1.4 ; 1.4
01-27-95	282	1.5 ± 0.3 ; 0.4	1.0 ± 1.4 ; 1.4	07-27-95	245	2.3 ± 0.4 ; 0.6	-1.3 ± 1.3 ; 1.3
02-03-95	296	2.6 ± 0.3 ; 0.6	0.1 ± 1.1 ; 1.1	08-03-95	296	2.1 ± 0.3 ; 0.5	0.0 ± 1.3 ; 1.3
02-10-95	276	2.5 ± 0.3 ; 0.5	0.3 ± 1.4 ; 1.4	08-12-95	356	1.8 ± 0.3 ; 0.4	0.3 ± 1.2 ; 1.2
02-17-95	290	2.4 ± 0.3 ; 0.5	-1.0 ± 1.8 ; 1.8	08-18-95	233	2.5 ± 0.4 ; 0.6	0.6 ± 1.5 ; 1.5
02-24-95	280	2.3 ± 0.3 ; 0.5	0.6 ± 1.2 ; 1.2	08-25-95	285	2.1 ± 0.3 ; 0.5	1.0 ± 1.2 ; 1.2
03-03-95	291	1.5 ± 0.3 ; 0.4	1.1 ± 1.1 ; 1.1	09-01-95	291	4.0 ± 0.4 ; 0.8	-0.6 ± 1.5 ; 1.5
03-10-95	283	2.1 ± 0.3 ; 0.5	-0.7 ± 1.2 ; 1.2	09-08-95	279	3.4 ± 0.3 ; 0.7	0.1 ± 1.1 ; 1.1
03-17-95	293	2.5 ± 0.3 ; 0.5	-0.9 ± 1.3 ; 1.3	09-15-95	289	2.9 ± 0.3 ; 0.6	-1.4 ± 1.6 ; 1.6
03-24-95	287	1.5 ± 0.3 ; 0.4	-0.1 ± 0.9 ; 0.9	09-22-95	309	2.0 ± 0.3 ; 0.5	-0.6 ± 1.2 ; 1.2
03-31-95	287	1.5 ± 0.3 ; 0.4	-1.3 ± 1.2 ; 1.2	09-29-95	289	3.3 ± 0.4 ; 0.7	-1.2 ± 1.3 ; 1.3
1st Qtr. Mean±s.d.		2.0 ± 0.4	0.0 ± 0.8	3rd Qtr. Mean±s.d.		2.6 ± 0.7	-0.3 ± 0.7
04-07-95	282	2.0 ± 0.3 ; 0.5	-0.6 ± 1.2 ; 1.2	10-06-95	283	3.3 ± 0.4 ; 0.7	1.4 ± 1.1 ; 1.2
04-14-95	285	1.6 ± 0.3 ; 0.4	-1.5 ± 1.3 ; 1.3	10-13-95	285	3.6 ± 0.3 ; 0.7	-0.4 ± 1.2 ; 1.2
04-21-95	285	1.2 ± 0.3 ; 0.3	-0.9 ± 1.1 ; 1.1	10-20-95	294	1.8 ± 0.3 ; 0.4	0.0 ± 1.1 ; 1.1
04-28-95	293	1.5 ± 0.3 ; 0.4	0.2 ± 1.1 ; 1.1	10-27-95	288	1.5 ± 0.3 ; 0.4	1.0 ± 1.3 ; 1.3
05-05-95	283	1.2 ± 0.3 ; 0.3	-0.1 ± 0.6 ; 0.6	11-03-95	285	1.6 ± 0.3 ; 0.4	-1.8 ± 1.9 ; 1.9
05-12-95	281	1.8 ± 0.3 ; 0.4	0.8 ± 1.1 ; 1.1	11-10-95	284	2.5 ± 0.3 ; 0.6	0.5 ± 1.1 ; 1.1
05-19-95	283	1.2 ± 0.3 ; 0.3	-0.9 ± 1.0 ; 1.0	11-17-95	287	1.7 ± 0.3 ; 0.4	-0.7 ± 1.5 ; 1.5
05-26-95	292	1.3 ± 0.2 ; 0.3	-1.1 ± 1.3 ; 1.3	11-24-95	NS ^b	-	-
06-02-95	275	1.6 ± 0.3 ; 0.4	0.4 ± 1.9 ; 1.9	4th Qtr. Mean±s.d.		2.3 ± 0.8	0.1 ± 1.0
06-09-95	285	1.8 ± 0.3 ; 0.4	0.0 ± 1.6 ; 1.6				
06-16-95	289	1.4 ± 0.3 ; 0.4	0.1 ± 1.1 ; 1.1				
06-23-95	282	3.3 ± 0.4 ; 0.7	0.6 ± 1.0 ; 1.0				
06-30-95	285	1.8 ± 0.3 ; 0.4	-0.1 ± 1.0 ; 1.0				
2nd Qtr. Mean±s.d.		1.7 ± 0.5	-0.3 ± 0.7				

^a Volume low due to a temporary power outage; sample volume not significantly affected.

^b Analyses of samples from this location discontinued in accordance with UREMP. UREMP was implemented on 11-17-95.

BRAIDWOOD

Table 1. Airborne Particulates and Iodine I-131
 Collection: Continuous; weekly exchange
 Required LLD: 0.01 pCi/m³ for Gross Beta and 0.07 pCi/m³ for I-131
 Units: 10² pCi/m³

BD-03 (C) County Line Road							
Date Collected	Volume (m ³)	Gross Beta	I-131	Date Collected	Volume (m ³)	Gross Beta	I-131
01-06-95	283	2.2 ± 0.3 ; 0.5	0.0 ± 1.0 ; 1.0	07-07-95	279	1.6 ± 0.3 ; 0.4	0.1 ± 1.6 ; 1.6
01-13-95	290	2.9 ± 0.3 ; 0.6	-0.9 ± 1.3 ; 1.3	07-14-95	285	2.5 ± 0.3 ; 0.6	-0.7 ± 1.3 ; 1.3
01-20-95	287	1.4 ± 0.3 ; 0.4	-0.5 ± 1.3 ; 1.3	07-21-95	282	3.0 ± 0.3 ; 0.6	-0.3 ± 1.4 ; 1.4
01-27-95	283	1.7 ± 0.3 ; 0.4	-0.7 ± 1.3 ; 1.3	07-27-95	245	1.7 ± 0.3 ; 0.4	-0.5 ± 1.3 ; 1.3
02-03-95	306	2.5 ± 0.3 ; 0.5	0.2 ± 1.1 ; 1.1	08-03-95	301	2.4 ± 0.3 ; 0.5	1.0 ± 1.3 ; 1.3
02-10-95	276	2.7 ± 0.3 ; 0.6	0.8 ± 1.2 ; 1.2	08-12-95	365	2.0 ± 0.3 ; 0.4	-0.3 ± 1.3 ; 1.3
02-17-95	285	2.8 ± 0.3 ; 0.6	-1.4 ± 1.5 ; 1.5	08-18-95	233	2.5 ± 0.4 ; 0.6	-1.0 ± 1.7 ; 1.7
02-24-95	281	2.7 ± 0.3 ; 0.6	-0.7 ± 1.4 ; 1.4	08-25-95	285	1.9 ± 0.3 ; 0.5	0.1 ± 1.4 ; 1.4
03-03-95	289	1.4 ± 0.3 ; 0.4	0.2 ± 1.1 ; 1.1	09-01-95	291	3.5 ± 0.4 ; 0.7	0.1 ± 1.6 ; 1.6
03-10-95	283	2.1 ± 0.3 ; 0.5	0.1 ± 1.0 ; 1.0	09-08-95	279	3.2 ± 0.3 ; 0.7	-0.5 ± 1.3 ; 1.3
03-17-95	287	2.7 ± 0.3 ; 0.6	-0.4 ± 1.3 ; 1.3	09-15-95	289	2.7 ± 0.3 ; 0.6	-0.4 ± 1.4 ; 1.4
03-24-95	277	1.4 ± 0.3 ; 0.4	0.1 ± 1.7 ; 1.7	09-22-95	280	1.9 ± 0.3 ; 0.5	-0.1 ± 1.1 ; 1.1
03-31-95	287	1.4 ± 0.3 ; 0.4	-0.7 ± 1.3 ; 1.3	09-29-95	289	3.2 ± 0.4 ; 0.7	0.5 ± 1.1 ; 1.1
1st Qtr. Meant±s.d.		2.2 ± 0.6	-0.3 ± 0.6	3rd Qtr. Meant±s.d.		2.5 ± 0.6	-0.2 ± 0.5
04-07-95	282	2.1 ± 0.3 ; 0.5	0.5 ± 1.2 ; 1.2	10-06-95	279	3.2 ± 0.4 ; 0.7	-0.4 ± 1.2 ; 1.2
04-14-95	285	1.7 ± 0.3 ; 0.4	-0.4 ± 1.4 ; 1.4	10-13-95	276	3.8 ± 0.4 ; 0.8	0.0 ± 1.2 ; 1.2
04-21-95	285	1.4 ± 0.3 ; 0.4	0.2 ± 1.4 ; 1.4	10-20-95	284	2.1 ± 0.3 ; 0.5	-0.4 ± 1.3 ; 1.3
04-28-95	293	1.5 ± 0.3 ; 0.4	-0.2 ± 1.2 ; 1.2	10-27-95	279	1.6 ± 0.3 ; 0.4	-1.1 ± 1.3 ; 1.3
05-05-95	283	1.2 ± 0.3 ; 0.3	0.2 ± 1.5 ; 1.5	11-03-95	285	1.8 ± 0.3 ; 0.4	1.3 ± 1.7 ; 1.7
05-12-95	281	1.7 ± 0.3 ; 0.4	1.2 ± 1.1 ; 1.2	11-10-95	285	2.5 ± 0.3 ; 0.6	0.6 ± 1.0 ; 1.0
05-19-95	285	1.5 ± 0.3 ; 0.4	0.1 ± 1.1 ; 1.1	11-17-95	287	1.9 ± 0.3 ; 0.5	1.3 ± 1.5 ; 1.5
05-26-95	292	1.5 ± 0.3 ; 0.4	0.0 ± 1.3 ; 1.3	11-24-95	283	2.9 ± 0.3 ; 0.6	-0.2 ± 1.4 ; 1.4
06-02-95	271	1.7 ± 0.3 ; 0.4	-0.2 ± 1.5 ; 1.5	12-01-95	287	2.9 ± 0.3 ; 0.6	-0.4 ± 1.2 ; 1.2
06-09-95	285	1.7 ± 0.3 ; 0.4	-0.2 ± 1.4 ; 1.4	12-08-95	285	3.0 ± 0.4 ; 0.6	-0.6 ± 1.5 ; 1.5
06-16-95	289	1.6 ± 0.3 ; 0.4	0.0 ± 1.4 ; 1.4	12-15-95	288	2.9 ± 0.3 ; 0.6	0.1 ± 1.6 ; 1.6
06-23-95	285	3.4 ± 0.4 ; 0.7	0.1 ± 1.0 ; 1.0	12-22-95	283	3.2 ± 0.3 ; 0.7	-0.1 ± 1.5 ; 1.5
06-30-95	280	2.0 ± 0.3 ; 0.5	-0.1 ± 2.4 ; 2.4	12-29-95	296	2.1 ± 0.3 ; 0.5	-0.2 ± 1.6 ; 1.6
2nd Qtr. Meant±s.d.		1.8 ± 0.5	0.1 ± 0.4	4th Qtr. Meant±s.d.		2.6 ± 0.6	0.0 ± 0.7

BRAIDWOOD

Table 1. Airborne Particulates and Iodine I-131
 Collection: Continuous; weekly exchange
 Required LLD: 0.01 pCi/m³ for Gross Beta and 0.07 pCi/m³ for I-131
 Units: 10² pCi/m³

BD-04 Essex							
Date Collected	Volume (m ³)	Gross Beta	I-131	Date Collected	Volume (m ³)	Gross Beta	I-131
01-06-95	283	2.3 ± 0.3 ; 0.5	0.5 ± 1.4 ; 1.4	07-07-95	284	1.6 ± 0.3 ; 0.4	-0.1 ± 0.9 ; 0.9
01-13-95	289	2.9 ± 0.3 ; 0.6	0.9 ± 1.2 ; 1.2	07-14-95	285	2.7 ± 0.3 ; 0.6	0.0 ± 1.5 ; 1.5
01-20-95	283	1.6 ± 0.3 ; 0.4	-1.4 ± 1.5 ; 1.5	07-21-95	282	2.9 ± 0.3 ; 0.6	-0.8 ± 1.3 ; 1.3
01-27-95	283	2.0 ± 0.3 ; 0.5	-0.1 ± 1.2 ; 1.2	07-27-95	245	2.2 ± 0.4 ; 0.5	1.5 ± 1.3 ; 1.3
02-03-95	296	2.9 ± 0.3 ; 0.6	-0.5 ± 1.1 ; 1.1	08-03-95	296	2.2 ± 0.3 ; 0.5	0.7 ± 1.3 ; 1.3
02-10-95	276	2.3 ± 0.3 ; 0.5	-0.2 ± 1.4 ; 1.4	08-12-95	359	2.1 ± 0.3 ; 0.5	0.1 ± 1.3 ; 1.3
02-17-95	279	2.7 ± 0.3 ; 0.6	0.9 ± 1.8 ; 1.8	08-18-95	233	2.7 ± 0.4 ; 0.6	-0.7 ± 1.8 ; 1.8
02-24-95	286	2.9 ± 0.3 ; 0.6	0.5 ± 1.2 ; 1.2	08-25-95	285	2.0 ± 0.3 ; 0.5	0.5 ± 1.3 ; 1.3
03-03-95	281	1.6 ± 0.3 ; 0.4	0.1 ± 1.2 ; 1.2	09-01-95	291	3.8 ± 0.4 ; 0.8	-0.9 ± 1.3 ; 1.3
03-10-95	288	2.3 ± 0.3 ; 0.5	-0.1 ± 0.9 ; 0.9	09-08-95	279	3.0 ± 0.3 ; 0.6	-0.3 ± 1.3 ; 1.3
03-17-95	277	2.6 ± 0.3 ; 0.6	0.5 ± 1.6 ; 1.6	09-15-95	289	2.4 ± 0.3 ; 0.5	-0.8 ± 1.4 ; 1.4
03-24-95	286	1.3 ± 0.3 ; 0.4	-0.1 ± 0.9 ; 0.9	09-22-95	280	1.8 ± 0.3 ; 0.4	-0.2 ± 1.3 ; 1.3
03-31-95	287	1.4 ± 0.3 ; 0.4	0.2 ± 1.1 ; 1.1	09-29-95	289	3.3 ± 0.4 ; 0.7	-0.2 ± 1.2 ; 1.2
1st Qtr. Meants.d.		2.2 ± 0.5	0.1 ± 0.6	3rd Qtr. Meants.d.		2.5 ± 0.6	-0.1 ± 0.7
04-07-95	272	2.0 ± 0.3 ; 0.5	0.1 ± 1.1 ; 1.1	10-06-95	283	3.4 ± 0.4 ; 0.7	-0.1 ± 1.2 ; 1.2
04-14-95	285	1.5 ± 0.3 ; 0.4	0.3 ± 1.2 ; 1.2	10-13-95	281	3.7 ± 0.4 ; 0.8	1.8 ± 1.1 ; 1.1
04-21-95	285	1.6 ± 0.3 ; 0.4	0.4 ± 1.2 ; 1.2	10-20-95	284	1.7 ± 0.3 ; 0.4	-2.0 ± 1.4 ; 1.4
04-28-95	293	1.7 ± 0.3 ; 0.4	-0.7 ± 1.0 ; 1.0	10-27-95	293	2.0 ± 0.3 ; 0.5	0.5 ± 1.4 ; 1.4
05-05-95	283	1.2 ± 0.3 ; 0.3	0.0 ± 0.8 ; 0.8	11-03-95	285	1.6 ± 0.3 ; 0.4	-1.8 ± 1.8 ; 1.8
05-12-95	281	1.6 ± 0.3 ; 0.4	-0.8 ± 1.1 ; 1.1	11-10-95	285	2.6 ± 0.3 ; 0.6	0.9 ± 1.3 ; 1.3
05-19-95	285	1.4 ± 0.3 ; 0.4	0.5 ± 1.0 ; 1.0	11-17-95	287	1.9 ± 0.3 ; 0.5	-0.2 ± 1.4 ; 1.4
05-26-95	297	1.7 ± 0.3 ; 0.4	0.5 ± 1.0 ; 1.0	11-24-95	NS ^a	-	-
06-02-95	276	1.7 ± 0.3 ; 0.4	0.3 ± 0.9 ; 0.9	4th Qtr. Meants.d.		2.4 ± 0.8	-0.1 ± 1.3
06-09-95	285	1.7 ± 0.3 ; 0.4	-0.6 ± 1.4 ; 1.4				
06-16-95	289	1.7 ± 0.3 ; 0.4	1.1 ± 1.1 ; 1.1				
06-23-95	285	3.1 ± 0.3 ; 0.7	0.6 ± 1.1 ; 1.1				
06-30-95	283	2.0 ± 0.3 ; 0.5	-0.4 ± 2.1 ; 2.1				
2nd Qtr. Meants.d.		1.7 ± 0.4	0.1 ± 0.5				

^a Analyses of samples from this location discontinued in accordance with UREMP. UREMP was implemented on 11-17-95.

BRAIDWOOD

Table 1. Airborne Particulates and Iodine I-131
 Collection: Continuous; weekly exchange
 Required LLD: 0.01 pCi/m³ for Gross Beta and 0.07 pCi/m³ for I-131
 Units: 10⁻² pCi/m³

BD-05 Gardner							
Date Collected	Volume (m ³)	Gross Beta	I-131	Date Collected	Volume (m ³)	Gross Beta	I-131
01-06-95	283	2.3 ± 0.3 ; 0.5	1.1 ± 1.5 ; 1.5	07-07-95	279	1.5 ± 0.3 ; 0.4	0.1 ± 1.7 ; 1.7
01-13-95	288	3.0 ± 0.3 ; 0.6	-0.1 ± 1.3 ; 1.3	07-14-95	285	2.9 ± 0.3 ; 0.6	0.3 ± 0.9 ; 0.9
01-20-95	282	1.6 ± 0.3 ; 0.4	-0.1 ± 1.2 ; 1.2	07-21-95	282	3.2 ± 0.3 ; 0.7	-2.3 ± 1.3 ; 1.4
01-27-95	284	1.8 ± 0.3 ; 0.4	0.0 ± 1.2 ; 1.2	07-27-95	245	2.6 ± 0.4 ; 0.6	0.2 ± 1.4 ; 1.4
02-03-95	296	2.9 ± 0.3 ; 0.6	-0.5 ± 1.2 ; 1.2	08-03-95	296	2.1 ± 0.3 ; 0.5	-1.1 ± 1.5 ; 1.5
02-10-95	276	2.4 ± 0.3 ; 0.5	-0.3 ± 1.3 ; 1.3	08-12-95	359	1.9 ± 0.3 ; 0.4	-0.3 ± 0.9 ; 0.9
02-17-95	287	2.8 ± 0.3 ; 0.6	1.6 ± 1.8 ; 1.8	08-18-95	233	2.4 ± 0.4 ; 0.6	1.6 ± 1.8 ; 1.9
02-24-95	282	2.3 ± 0.3 ; 0.5	0.3 ± 1.3 ; 1.3	08-25-95	285	2.2 ± 0.3 ; 0.5	0.2 ± 1.4 ; 1.4
03-03-95	286	1.7 ± 0.3 ; 0.4	-0.9 ± 1.3 ; 1.3	09-01-95	291	4.0 ± 0.4 ; 0.8	-0.8 ± 1.8 ; 1.8
03-10-95	283	2.5 ± 0.3 ; 0.5	-0.3 ± 1.1 ; 1.1	09-08-95	279	3.2 ± 0.3 ; 0.7	-1.1 ± 1.2 ; 1.2
03-17-95	286	2.7 ± 0.3 ; 0.6	1.3 ± 1.2 ; 1.2	09-15-95	289	2.7 ± 0.3 ; 0.6	0.9 ± 1.4 ; 1.4
03-24-95	286	1.5 ± 0.3 ; 0.4	0.0 ± 1.3 ; 1.3	09-22-95	281	2.1 ± 0.3 ; 0.5	-0.7 ± 1.3 ; 1.3
03-31-95	282	1.3 ± 0.3 ; 0.3	0.7 ± 1.0 ; 1.0	09-29-95	284	3.9 ± 0.4 ; 0.8	-0.6 ± 1.2 ; 1.2
1st Qtr. Meant±s.d.		2.2 ± 0.6	0.2 ± 0.7	3rd Qtr. Meant±s.d.		2.7 ± 0.7	-0.3 ± 1.0
04-07-95	281	0.5 ± 0.2 ; 0.2	0.2 ± 1.1 ; 1.1	10-06-95	283	3.4 ± 0.4 ; 0.7	-0.9 ± 1.1 ; 1.1
04-14-95	285 ^a	0.3 ± 0.2 ; 0.2	1.5 ± 1.1 ; 1.1	10-13-95	285	3.8 ± 0.4 ; 0.8	-0.1 ± 1.3 ; 1.3
04-21-95	286	1.6 ± 0.3 ; 0.4	0.3 ± 1.1 ; 1.1	10-20-95	284	2.0 ± 0.3 ; 0.5	1.0 ± 1.1 ; 1.1
04-28-95	293	1.7 ± 0.3 ; 0.4	-0.1 ± 1.2 ; 1.2	10-27-95	288	1.8 ± 0.3 ; 0.4	0.5 ± 1.5 ; 1.5
05-05-95	283	1.4 ± 0.3 ; 0.4	-0.5 ± 1.1 ; 1.1	11-03-95	285	1.7 ± 0.3 ; 0.4	0.7 ± 1.4 ; 1.4
05-12-95	281	1.6 ± 0.3 ; 0.4	-0.3 ± 1.1 ; 1.1	11-10-95	285	2.4 ± 0.3 ; 0.5	0.7 ± 1.0 ; 1.0
05-19-95	285	1.5 ± 0.3 ; 0.4	-1.4 ± 1.1 ; 1.1	11-17-95	287	2.0 ± 0.3 ; 0.5	0.7 ± 1.1 ; 1.1
05-26-95	297	1.1 ± 0.2 ; 0.3	0.6 ± 1.3 ; 1.3	11-24-95	NS ^b	-	-
06-02-95	275	1.5 ± 0.3 ; 0.4	0.8 ± 2.1 ; 2.1	4th Qtr. Meant±s.d.		2.5 ± 0.8	0.4 ± 0.6
06-09-95	285	1.9 ± 0.3 ; 0.5	-0.5 ± 1.5 ; 1.5				
06-16-95	290	1.6 ± 0.3 ; 0.4	0.1 ± 1.3 ; 1.3				
06-23-95	285	3.2 ± 0.4 ; 0.7	-0.1 ± 1.0 ; 1.0				
06-30-95	285	2.1 ± 0.3 ; 0.5	-0.2 ± 2.4 ; 2.4				
2nd Qtr. Meant±s.d.		1.5 ± 0.7	0.0 ± 0.7				

^a Filter light.

^b Analyses of samples from this location discontinued in accordance with UREMP. UREMP was implemented on 11-17-95.

BRAIDWOOD

Table 1. Airborne Particulates and Iodine I-131
 Collection: Continuous; weekly exchange
 Required LLD: 0.01 pCi/m³ for Gross Beta and 0.07 pCi/m³ for I-131
 Units: 10⁻² pCi/m³

BD-06 Godley							
Date Collected	Volume (m ³)	Gross Beta	I-131	Date Collected	Volume (m ³)	Gross Beta	I-131
01-06-95	283	2.3 ± 0.3 ; 0.5	1.1 ± 1.5 ; 1.5	07-07-95	279	1.3 ± 0.3 ; 0.3	-0.5 ± 0.8 ; 0.8
01-13-95	287	3.0 ± 0.3 ; 0.6	-1.4 ± 1.1 ; 1.1	07-14-95	264 ^a	2.8 ± 0.4 ; 0.6	0.5 ± 1.1 ; 1.1
01-20-95	282	1.7 ± 0.3 ; 0.4	0.6 ± 1.2 ; 1.2	07-21-95	275	3.0 ± 0.3 ; 0.6	1.0 ± 1.4 ; 1.4
01-27-95	297	1.9 ± 0.3 ; 0.5	-1.2 ± 1.3 ; 1.3	07-27-95	245	2.2 ± 0.4 ; 0.5	1.3 ± 1.5 ; 1.5
02-03-95	295	2.3 ± 0.3 ; 0.5	1.2 ± 1.1 ; 1.1	08-03-95	300	1.8 ± 0.3 ; 0.4	0.2 ± 1.3 ; 1.3
02-10-95	276	2.4 ± 0.3 ; 0.5	-0.1 ± 1.4 ; 1.4	08-12-95	357	2.3 ± 0.3 ; 0.5	0.1 ± 1.2 ; 1.2
02-17-95	287	2.6 ± 0.3 ; 0.6	-1.2 ± 1.7 ; 1.7	08-18-95	237	2.4 ± 0.4 ; 0.6	0.0 ± 1.7 ; 1.7
02-24-95	287	2.7 ± 0.3 ; 0.6	-0.8 ± 1.3 ; 1.3	08-25-95	285	2.2 ± 0.3 ; 0.5	-1.1 ± 1.3 ; 1.3
03-03-95	284	1.7 ± 0.3 ; 0.4	-1.1 ± 1.2 ; 1.2	09-01-95	289	4.6 ± 0.4 ; 0.9	0.5 ± 1.4 ; 1.4
03-10-95	273	2.0 ± 0.3 ; 0.5	0.1 ± 1.0 ; 1.0	09-08-95	279	2.9 ± 0.3 ; 0.6	-0.6 ± 1.4 ; 1.4
03-17-95	285	2.5 ± 0.3 ; 0.5	0.3 ± 1.3 ; 1.3	09-15-95	289	2.7 ± 0.3 ; 0.6	0.1 ± 1.4 ; 1.4
03-24-95	286	1.4 ± 0.3 ; 0.4	0.1 ± 0.7 ; 0.7	09-22-95	280	1.9 ± 0.3 ; 0.5	0.2 ± 1.2 ; 1.2
03-31-95	282	1.6 ± 0.3 ; 0.4	0.1 ± 1.1 ; 1.1	09-29-95	284	3.8 ± 0.4 ; 0.8	-0.6 ± 1.3 ; 1.3
1st Qtr. Mean ± s.d.		2.2 ± 0.5	-0.2 ± 0.8	3rd Qtr. Mean ± s.d.		2.6 ± 0.8	0.1 ± 0.7
04-07-95	271	1.6 ± 0.3 ; 0.4	-0.2 ± 1.2 ; 1.2	10-06-95	288	3.3 ± 0.4 ; 0.7	0.5 ± 1.1 ; 1.1
04-14-95	285	1.5 ± 0.3 ; 0.4	-1.6 ± 1.2 ; 1.3	10-13-95	285	3.3 ± 0.3 ; 0.7	-0.2 ± 1.4 ; 1.4
04-21-95	285	1.5 ± 0.3 ; 0.4	1.6 ± 1.2 ; 1.2	10-20-95	284	2.1 ± 0.3 ; 0.5	1.7 ± 1.2 ; 1.2
04-28-95	289	1.6 ± 0.3 ; 0.4	0.8 ± 0.9 ; 1.0	10-27-95	288	1.8 ± 0.3 ; 0.4	-0.3 ± 1.3 ; 1.3
05-05-95	283	1.1 ± 0.3 ; 0.3	0.0 ± 1.3 ; 1.3	11-03-95	295	1.6 ± 0.3 ; 0.4	-0.9 ± 1.6 ; 1.6
05-12-95	280	1.7 ± 0.3 ; 0.4	-0.8 ± 1.1 ; 1.1	11-10-95	285	2.8 ± 0.3 ; 0.6	0.6 ± 1.2 ; 1.2
05-19-95	281	1.7 ± 0.3 ; 0.4	-0.9 ± 1.0 ; 1.0	11-17-95	277	2.1 ± 0.3 ; 0.5	0.2 ± 1.7 ; 1.7
05-26-95	297	1.4 ± 0.2 ; 0.4	-0.2 ± 1.2 ; 1.2	11-24-95	284	3.4 ± 0.3 ; 0.7	0.1 ± 1.4 ; 1.4
06-02-95	275	1.4 ± 0.3 ; 0.4	0.0 ± 1.1 ; 1.1	12-01-95	287	3.4 ± 0.4 ; 0.7	0.4 ± 1.2 ; 1.2
06-09-95	285	1.8 ± 0.3 ; 0.4	-0.4 ± 1.3 ; 1.3	12-08-95	284	2.6 ± 0.3 ; 0.6	0.4 ± 1.7 ; 1.7
06-16-95	291	1.6 ± 0.3 ; 0.4	-0.5 ± 1.2 ; 1.2	12-15-95	287	3.1 ± 0.3 ; 0.7	0.1 ± 1.6 ; 1.6
06-23-95	284	3.2 ± 0.4 ; 0.7	-0.5 ± 1.2 ; 1.2	12-22-95	283	2.8 ± 0.3 ; 0.6	1.5 ± 1.2 ; 1.3
06-30-95	285	2.1 ± 0.3 ; 0.5	1.1 ± 2.4 ; 2.4	12-29-95	290	1.9 ± 0.3 ; 0.5	0.4 ± 0.7 ; 0.7
2nd Qtr. Mean ± s.d.		1.7 ± 0.5	-0.1 ± 0.8	4th Qtr. Mean ± s.d.		2.6 ± 0.6	0.4 ± 0.7

^a Volume low due to a temporary power outage; sample volume not significantly affected.

BRAIDWOOD

Table 1. Airborne Particulates and Iodine I-131
 Collection: Continuous; weekly exchange
 Required LLD: 0.01 pCi/m³ for Gross Beta and 0.07 pCi/m³ for I-131
 Units: 10⁻² pCi/m³

BD-19 Nearsite, NW							
Date Collected	Volume (m ³)	Gross Beta	I-131	Date Collected	Volume (m ³)	Gross Beta	I-131
01-06-95	282	1.9 ± 0.3 ; 0.5	0.0 ± 1.4 ; 1.4	07-07-95	280	1.4 ± 0.3 ; 0.4	0.4 ± 1.5 ; 1.5
01-13-95	278	2.5 ± 0.3 ; 0.5	-0.1 ± 1.6 ; 1.6	07-14-95	264 ^a	2.6 ± 0.3 ; 0.6	0.5 ± 2.0 ; 2.0
01-20-95	282	1.4 ± 0.3 ; 0.4	-0.3 ± 1.3 ; 1.3	07-21-95	274	3.1 ± 0.3 ; 0.7	1.2 ± 1.3 ; 1.3
01-27-95	284	1.8 ± 0.3 ; 0.4	0.1 ± 1.1 ; 1.1	07-27-95	245	2.0 ± 0.3 ; 0.5	1.6 ± 1.6 ; 1.6
02-03-95	296	3.1 ± 0.3 ; 0.7	0.7 ± 1.0 ; 1.0	08-03-95	296	2.3 ± 0.3 ; 0.5	-0.8 ± 1.6 ; 1.6
02-10-95	276	2.3 ± 0.3 ; 0.5	-1.1 ± 1.4 ; 1.4	08-12-95	356	1.7 ± 0.3 ; 0.4	-0.2 ± 0.6 ; 0.6
02-17-95	281	2.7 ± 0.3 ; 0.6	0.9 ± 1.8 ; 1.8	08-18-95	193	3.4 ± 0.5 ; 0.8	1.3 ± 2.0 ; 2.0
02-24-95	288	2.9 ± 0.3 ; 0.6	0.3 ± 1.3 ; 1.3	08-25-95	283	1.9 ± 0.3 ; 0.5	1.2 ± 1.5 ; 1.5
03-03-95	291	1.7 ± 0.3 ; 0.4	0.3 ± 1.1 ; 1.1	09-01-95	290	3.9 ± 0.4 ; 0.8	0.6 ± 1.6 ; 1.6
03-10-95	283	2.3 ± 0.3 ; 0.5	-0.5 ± 1.2 ; 1.2	09-08-95	278	3.2 ± 0.3 ; 0.7	1.1 ± 1.2 ; 1.3
03-17-95	283	3.0 ± 0.3 ; 0.6	0.7 ± 1.2 ; 1.2	09-15-95	289	2.6 ± 0.3 ; 0.6	0.9 ± 1.4 ; 1.4
03-24-95	284	1.5 ± 0.3 ; 0.4	-0.1 ± 0.7 ; 0.7	09-22-95	280	2.0 ± 0.3 ; 0.5	-0.2 ± 1.2 ; 1.2
03-31-95	287	1.6 ± 0.3 ; 0.4	-1.1 ± 1.3 ; 1.3	09-29-95	284	3.5 ± 0.4 ; 0.7	-1.9 ± 1.2 ; 1.3
1st Qtr. Meant±s.d.		2.2 ± 0.6	0.0 ± 0.6	3rd Qtr. Meant±s.d.		2.6 ± 0.7	0.4 ± 0.9
04-07-95	280	1.9 ± 0.3 ; 0.5	0.8 ± 1.2 ; 1.2	10-06-95	288	3.2 ± 0.3 ; 0.7	-0.5 ± 1.1 ; 1.1
04-14-95	286	1.7 ± 0.3 ; 0.4	0.8 ± 1.1 ; 1.1	10-13-95	285	3.3 ± 0.3 ; 0.7	-0.3 ± 1.0 ; 1.0
04-21-95	276	1.5 ± 0.3 ; 0.4	1.0 ± 1.3 ; 1.3	10-20-95	277	2.2 ± 0.3 ; 0.5	-1.9 ± 1.3 ; 1.4
04-28-95	293	1.5 ± 0.3 ; 0.4	0.7 ± 1.0 ; 1.0	10-27-95	274	2.0 ± 0.3 ; 0.5	-0.3 ± 1.2 ; 1.2
05-05-95	287	1.4 ± 0.3 ; 0.4	-0.1 ± 0.8 ; 0.8	11-03-95	137 ^b	3.4 ± 0.6 ; 0.8	-0.2 ± 3.9 ; 3.9
05-12-95	280	1.5 ± 0.3 ; 0.4	-0.3 ± 1.0 ; 1.0	11-10-95	285	2.1 ± 0.3 ; 0.5	-0.4 ± 1.2 ; 1.2
05-19-95	286	1.4 ± 0.3 ; 0.4	0.9 ± 1.1 ; 1.1	11-17-95	287	1.8 ± 0.3 ; 0.4	0.7 ± 2.4 ; 2.4
05-26-95	292	1.5 ± 0.3 ; 0.4	-0.7 ± 1.3 ; 1.3	11-24-95	284	2.7 ± 0.3 ; 0.6	-1.3 ± 1.6 ; 1.6
06-02-95	275	1.8 ± 0.3 ; 0.4	0.6 ± 1.5 ; 1.5	12-01-95	287	2.9 ± 0.3 ; 0.6	0.6 ± 1.2 ; 1.2
06-09-95	286	1.3 ± 0.3 ; 0.4	1.0 ± 1.2 ; 1.2	12-08-95	284	2.9 ± 0.3 ; 0.6	0.2 ± 1.5 ; 1.5
06-16-95	290	1.5 ± 0.3 ; 0.4	-0.7 ± 1.3 ; 1.3	12-15-95	286	3.0 ± 0.3 ; 0.6	-0.7 ± 1.4 ; 1.4
06-23-95	284	3.0 ± 0.3 ; 0.6	0.5 ± 1.0 ; 1.0	12-22-95	285	3.8 ± 0.4 ; 0.8	-2.0 ± 1.5 ; 1.6
06-30-95	284	2.1 ± 0.3 ; 0.5	0.2 ± 2.3 ; 2.3	12-29-95	290	2.1 ± 0.3 ; 0.5	0.9 ± 1.4 ; 1.4
2nd Qtr. Meant±s.d.		1.7 ± 0.4	0.4 ± 0.6	4th Qtr. Meant±s.d.		2.7 ± 0.6	-0.4 ± 0.9

^a Volume low due to a temporary power outage; sample volume not significantly affected.

^b Volume low; timer malfunction; installed new timer.

BRAIDWOOD

Table 1. Airborne Particulates and Iodine I-131
 Collection: Continuous; weekly exchange
 Required LLD: 0.01 pCi/m³ for Gross Beta and 0.07 pCi/m³ for I-131
 Units: 10⁻² pCi/m³

BD-20 Nearsite, N							
Date Collected	Volume (m ³)	Gross Beta	I-131	Date Collected	Volume (m ³)	Gross Beta	I-131
01-06-95	283	1.8 ± 0.3 ; 0.5	1.3 ± 1.5 ; 1.6	07-07-95	287	1.7 ± 0.3 ; 0.4	-0.2 ± 0.7 ; 0.7
01-13-95	286	2.5 ± 0.3 ; 0.5	0.8 ± 1.7 ; 1.7	07-14-95	283	2.6 ± 0.3 ; 0.6	0.2 ± 1.3 ; 1.3
01-20-95	282	1.3 ± 0.3 ; 0.4	-0.3 ± 1.3 ; 1.3	07-21-95	282	3.4 ± 0.3 ; 0.7	0.3 ± 1.3 ; 1.3
01-27-95	286	1.8 ± 0.3 ; 0.4	0.5 ± 1.2 ; 1.2	07-27-95	245	2.3 ± 0.4 ; 0.6	-0.6 ± 1.3 ; 1.3
02-03-95	296	3.1 ± 0.3 ; 0.6	-0.8 ± 1.2 ; 1.2	08-03-95	296	2.3 ± 0.3 ; 0.5	-2.0 ± 1.8 ; 1.9
02-10-95	276	2.2 ± 0.3 ; 0.5	-0.6 ± 1.6 ; 1.6	08-12-95	359	2.1 ± 0.3 ; 0.5	0.1 ± 1.7 ; 1.7
02-17-95	295	2.8 ± 0.3 ; 0.6	-2.4 ± 1.9 ; 1.9	08-18-95	233	2.8 ± 0.4 ; 0.6	-0.3 ± 2.0 ; 2.0
02-24-95	349	2.1 ± 0.3 ; 0.4	-0.6 ± 1.2 ; 1.2	08-25-95	285	2.4 ± 0.3 ; 0.5	0.6 ± 1.3 ; 1.3
03-03-95	291	1.6 ± 0.3 ; 0.4	0.4 ± 1.2 ; 1.2	09-01-95	291	3.9 ± 0.4 ; 0.8	1.7 ± 1.4 ; 1.4
03-10-95	283	2.0 ± 0.3 ; 0.5	-0.2 ± 1.1 ; 1.1	09-08-95	279	3.4 ± 0.3 ; 0.7	0.1 ± 1.3 ; 1.3
03-17-95	276	2.7 ± 0.3 ; 0.6	0.5 ± 1.6 ; 1.6	09-15-95	289	2.9 ± 0.3 ; 0.6	0.1 ± 1.6 ; 1.6
03-24-95	284	1.5 ± 0.3 ; 0.4	0.4 ± 0.7 ; 0.7	09-22-95	280	2.0 ± 0.3 ; 0.5	-0.3 ± 1.4 ; 1.4
03-31-95	287	1.6 ± 0.3 ; 0.4	0.5 ± 1.2 ; 1.2	09-29-95	285	3.8 ± 0.4 ; 0.8	1.1 ± 1.3 ; 1.3
1st Qtr. Meant±s.d.		2.1 ± 0.5	0.0 ± 0.9	3rd Qtr. Meant±s.d.		2.7 ± 0.7	0.1 ± 0.8
04-07-95	280	2.0 ± 0.3 ; 0.5	0.6 ± 1.1 ; 1.1	10-06-95	287	3.3 ± 0.4 ; 0.7	-0.4 ± 1.2 ; 1.2
04-14-95	286	1.7 ± 0.3 ; 0.4	0.4 ± 1.0 ; 1.0	10-13-95	285	3.7 ± 0.4 ; 0.8	-0.1 ± 1.4 ; 1.4
04-21-95	286	1.5 ± 0.3 ; 0.4	-0.3 ± 1.3 ; 1.3	10-20-95	284	2.2 ± 0.3 ; 0.5	0.5 ± 1.1 ; 1.1
04-28-95	293	1.5 ± 0.3 ; 0.4	-0.9 ± 1.1 ; 1.1	10-27-95	288	1.8 ± 0.3 ; 0.4	0.0 ± 1.4 ; 1.4
05-05-95	292	1.2 ± 0.3 ; 0.3	1.2 ± 1.7 ; 1.7	11-03-95	285	1.8 ± 0.3 ; 0.4	-0.5 ± 2.0 ; 2.0
05-12-95	280	1.9 ± 0.3 ; 0.5	-0.4 ± 1.2 ; 1.2	11-10-95	285	2.9 ± 0.3 ; 0.6	1.1 ± 1.1 ; 1.1
05-19-95	286	1.2 ± 0.3 ; 0.3	1.0 ± 1.1 ; 1.1	11-17-95	287	2.0 ± 0.3 ; 0.5	-1.5 ± 2.6 ; 2.6
05-26-95	297	1.4 ± 0.2 ; 0.4	-0.2 ± 1.0 ; 1.0	11-24-95	279	3.1 ± 0.3 ; 0.6	0.3 ± 1.5 ; 1.5
06-02-95	275	1.6 ± 0.3 ; 0.4	0.1 ± 0.9 ; 0.9	12-01-95	287	3.2 ± 0.3 ; 0.7	0.1 ± 1.3 ; 1.3
06-09-95	290	1.2 ± 0.3 ; 0.3	-0.1 ± 1.5 ; 1.5	12-08-95	284	2.8 ± 0.3 ; 0.6	-1.0 ± 1.8 ; 1.8
06-16-95	291	1.5 ± 0.3 ; 0.4	-1.1 ± 1.3 ; 1.3	12-15-95	286	3.1 ± 0.3 ; 0.7	0.2 ± 1.4 ; 1.4
06-23-95	303	2.9 ± 0.3 ; 0.6	0.2 ± 1.1 ; 1.1	12-22-95	285	3.7 ± 0.4 ; 0.8	-0.2 ± 1.2 ; 1.2
06-30-95	284	2.1 ± 0.3 ; 0.5	1.2 ± 1.9 ; 1.9	12-29-95	290	2.4 ± 0.3 ; 0.5	-0.3 ± 1.6 ; 1.6
2nd Qtr. Meant±s.d.		1.7 ± 0.5	0.1 ± 0.7	4th Qtr. Meant±s.d.		2.8 ± 0.6	-0.1 ± 0.6

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Table 1. Airborne Particulates and Iodine I-131
 Collection: Continuous; weekly exchange
 Required LLD: 0.01 pCi/m³ for Gross Beta and 0.07 pCi/m³ for I-131
 Units: 10⁻² pCi/m³

BD-21 Nearsite, NE							
Date Collected	Volume (m ³)	Gross Beta	I-131	Date Collected	Volume (m ³)	Gross Beta	I-131
01-06-95	283	1.9 ± 0.3 ; 0.5	-0.4 ± 1.2 ; 1.2	07-07-95	279	1.5 ± 0.3 ; 0.4	1.7 ± 1.7 ; 1.7
01-13-95	283	3.1 ± 0.3 ; 0.6	-1.3 ± 1.5 ; 1.5	07-14-95	283	2.7 ± 0.3 ; 0.6	0.8 ± 2.1 ; 2.1
01-20-95	282	1.6 ± 0.3 ; 0.4	0.1 ± 1.2 ; 1.2	07-21-95	275	3.6 ± 0.4 ; 0.7	0.6 ± 1.4 ; 1.4
01-27-95	285	2.0 ± 0.3 ; 0.5	0.0 ± 1.3 ; 1.3	07-27-95	245	2.3 ± 0.4 ; 0.5	-0.3 ± 1.4 ; 1.4
02-03-95	296	3.1 ± 0.3 ; 0.6	-0.1 ± 1.2 ; 1.2	08-03-95	296	2.2 ± 0.3 ; 0.5	0.0 ± 1.4 ; 1.4
02-10-95	276	2.8 ± 0.3 ; 0.6	-0.9 ± 1.5 ; 1.5	08-12-95	359	1.6 ± 0.2 ; 0.4	-0.5 ± 0.8 ; 0.8
02-17-95	292	2.6 ± 0.3 ; 0.6	-1.1 ± 1.9 ; 1.9	08-18-95	233	1.5 ± 0.3 ; 0.4	-0.7 ± 2.1 ; 2.1
02-24-95	283	2.9 ± 0.3 ; 0.6	0.7 ± 1.2 ; 1.2	08-25-95	27 ^a	< 3.2	< 10.8
03-03-95	291	1.6 ± 0.3 ; 0.4	-0.6 ± 1.2 ; 1.2	09-01-95	296	3.6 ± 0.4 ; 0.7	-0.9 ± 1.6 ; 1.6
03-10-95	283	2.2 ± 0.3 ; 0.5	0.0 ± 1.2 ; 1.2	09-08-95	275	2.9 ± 0.3 ; 0.6	0.2 ± 1.2 ; 1.2
03-17-95	284	2.7 ± 0.3 ; 0.6	-0.4 ± 1.4 ; 1.4	09-15-95	285	2.5 ± 0.3 ; 0.6	0.1 ± 1.5 ; 1.5
03-24-95	286	1.5 ± 0.3 ; 0.4	-0.3 ± 0.6 ; 0.6	09-22-95	280	1.9 ± 0.3 ; 0.4	-0.4 ± 1.3 ; 1.3
03-31-95	287	1.5 ± 0.3 ; 0.4	1.5 ± 1.2 ; 1.3	09-29-95	278	3.4 ± 0.4 ; 0.7	0.3 ± 1.2 ; 1.2
1st Qtr. Mean ± s.d.		2.3 ± 0.6	-0.2 ± 0.7	3rd Qtr. Mean ± s.d.		2.5 ± 0.7	0.1 ± 0.7
04-07-95	280	1.8 ± 0.3 ; 0.4	-0.2 ± 1.2 ; 1.2	10-06-95	289	3.2 ± 0.4 ; 0.7	0.9 ± 1.0 ; 1.0
04-14-95	286	1.7 ± 0.3 ; 0.4	0.4 ± 1.2 ; 1.2	10-13-95	284	2.9 ± 0.3 ; 0.6	-0.4 ± 1.3 ; 1.3
04-21-95	285	1.3 ± 0.3 ; 0.4	-0.9 ± 1.2 ; 1.2	10-20-95	284	2.0 ± 0.3 ; 0.5	0.1 ± 1.3 ; 1.3
04-28-95	293	1.7 ± 0.3 ; 0.4	0.7 ± 1.2 ; 1.2	10-27-95	288	1.8 ± 0.3 ; 0.4	1.0 ± 1.3 ; 1.4
05-05-95	283	1.3 ± 0.3 ; 0.4	0.4 ± 1.2 ; 1.2	11-03-95	285	1.8 ± 0.3 ; 0.4	0.8 ± 1.5 ; 1.5
05-12-95	280	1.9 ± 0.3 ; 0.5	0.3 ± 1.0 ; 1.0	11-10-95	285	2.3 ± 0.3 ; 0.5	0.8 ± 1.2 ; 1.2
05-19-95	286	1.6 ± 0.3 ; 0.4	-0.3 ± 1.0 ; 1.0	11-17-95	287	2.1 ± 0.3 ; 0.5	-0.3 ± 2.5 ; 2.5
05-26-95	297	1.5 ± 0.3 ; 0.4	-0.7 ± 1.0 ; 1.0	11-24-95	284	3.0 ± 0.3 ; 0.6	-0.3 ± 1.6 ; 1.6
06-02-95	275	1.8 ± 0.3 ; 0.4	1.1 ± 1.8 ; 1.8	12-01-95	287	3.2 ± 0.3 ; 0.7	-0.1 ± 1.3 ; 1.3
06-09-95	287	1.5 ± 0.3 ; 0.4	0.5 ± 1.4 ; 1.4	12-08-95	284	2.3 ± 0.3 ; 0.5	1.3 ± 1.5 ; 1.6
06-16-95	296	1.7 ± 0.3 ; 0.4	-0.1 ± 1.2 ; 1.2	12-15-95	286 ^b	3.1 ± 0.3 ; 0.7	-1.1 ± 1.4 ; 1.4
06-23-95	289	3.1 ± 0.3 ; 0.7	0.0 ± 1.1 ; 1.1	12-22-95	284	3.3 ± 0.3 ; 0.7	0.5 ± 1.6 ; 1.6
06-30-95	295	1.9 ± 0.3 ; 0.4	0.1 ± 1.9 ; 1.9	12-29-95	289	2.0 ± 0.3 ; 0.5	-0.4 ± 0.9 ; 0.9
2nd Qtr. Mean ± s.d.		1.8 ± 0.4	0.1 ± 0.5	4th Qtr. Mean ± s.d.		2.5 ± 0.6	0.2 ± 0.7

^a Required LLD not reached due to low sample volume; the resulting concentrations were 0.0007 ± 0.0197; 0.0197 pCi/m³ and 0.0466 ± 0.1140; 0.1140 pCi/m³ for Gross Beta and I-131, respectively.

^b Volume estimated.

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Table 2. Airborne Particulates
 Collection: Quarterly composites of weekly collections
 Required LLD: 0.05 pCi/m³ for Cs-134 and 0.06 pCi/m³ for Cs-137
 0.01 pCi/m³ for other gamma emitters
 Units: 10⁻⁴pCi/m³

Sample Description and Concentration				
BD-01 Braidwood ^a				
1995 Collection Period	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.
Lab Code	BDAP-2793	BDAP-8123	BDAP-11153	BDAP-13131 ^b
Volume	3,703	3,711	3,695	2,003
Mn-54	-1.1±4.7;4.7	-8.6±5.8;6.0	-0.2±4.1;4.1	-2.8±9.6;9.6
Fe-59	-3.3±11.2;11.2	2.9±9.9;9.9	7.2±9.6;9.6	11.9±53.1;53.1
Co-58	2.3±5.1;5.1	8.1±6.2;6.3	1.7±4.8;4.8	0.8±14.7;14.7
Co-60	3.6±5.8;5.9	0.5±5.6;5.6	-2.2±4.8;4.8	5.9±6.8;6.8
Zn-65	-4.8±11.9;11.9	10.0±10.4;10.6	-6.0±10.0;10.1	16.8±20.1;20.3
Zr-Nb-95	-3.6±9.3;9.4	-4.2±11.4;11.4	8.9±10.3;10.4	-4.3±32.2;32.2
Cs-134	-1.9±5.0;5.0	2.0±5.4;5.4	0.4±5.1;5.1	-3.7±10.5;10.5
Cs-137	0.5±4.5;4.5	-1.2±5.3;5.3	-1.2±4.4;4.4	2.2±9.0;9.0
Ba-La-140	-11.5±20.7;20.8	-5.8±29.1;29.1	1.5±24.7;24.7	225.0±597.0;598.3
BD-02 Custer Park ^a				
Lab Code	BDAP-2794	BDAP-8124	BDAP-11154	BDAP-13132 ^b
Volume	3,713	3,700	3,694	2,006
Mn-54	-1.4±3.6;3.6	1.0±5.5;5.5	-2.2±4.4;4.4	4.8±12.2;12.2
Fe-59	0.4±10.3;10.3	6.4±12.6;12.7	5.6±11.2;11.2	5.7±54.2;54.2
Co-58	2.6±4.8;4.8	-5.1±6.8;6.8	3.3±5.3;5.3	-1.6±22.7;22.7
Co-60	0.4±4.4;4.4	2.8±4.7;4.7	2.0±3.8;3.8	4.5±10.3;10.3
Zn-65	-1.1±7.3;7.3	2.6±11.0;11.0	-3.6±9.2;9.2	-27.3±29.5;29.9
Zr-Nb-95	2.0±8.7;8.7	3.4±10.2;10.2	1.9±9.5;9.5	9.8±38.7;38.7
Cs-134	1.5±4.3;4.3	1.0±5.8;5.8	4.7±4.3;4.4	-0.5±12.0;12.0
Cs-137	-1.3±4.2;4.2	-0.6±4.6;4.6	3.2±4.5;4.5	-3.8±11.8;11.8
Ba-La-140	12.8±14.9;15.1	-51.7±38.3;39.4	-15.3±37.3;37.4	-386.0±811.0;813.9

^a Analyses of samples from this location was discontinued in accordance with UREMP. UREMP was implemented on 11-17-95.

^b Results reflect a seven week collection period due to UREMP implementation.

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Table 2. Airborne Particulates
 Collection: Quarterly composites of weekly collections
 Required LLD: 0.05 pCi/m³ for Cs-134 and 0.06 pCi/m³ for Cs-137
 0.01 pCi/m³ for other gamma emitters
 Units: 10⁻⁴pCi/m³

Sample Description and Concentration

BD-03 County Line Road

1995 Collection Period	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.
Lab Code	BDAP-2795	BDAP-8125	BDAP-11155	BDAP-13133
Volume	3,714	3,696	3,703	3,697
Mn-54	-1.5±4.0;4.0	5.2±5.2;5.3	0.9±5.5;5.5	1.1±3.4;3.4
Fe-59	1.1±9.6;9.6	9.3±13.2;13.3	10.1±18.4;18.5	-4.6±13.1;13.1
Co-58	1.4±4.4;4.4	5.6±5.7;5.8	-2.8±6.2;6.2	3.1±4.3;4.4
Co-60	2.4±4.5;4.5	3.2±5.5;5.5	8.5±7.2;7.3	0.2±3.9;3.9
Zn-65	-2.3±6.6;6.6	-6.3±10.3;10.4	15.0±9.6;10.0	4.7±8.7;8.7
Zr-Nb-95	1.4±8.5;8.5	1.6±10.0;10.0	1.0±14.1;14.1	2.4±7.4;7.4
Cs-134	-1.8±4.8;4.8	0.2±5.4;5.4	0.5±5.3;5.3	-0.5±4.6;4.6
Cs-137	-1.9±4.4;4.4	0.9±4.6;4.6	3.5±6.1;6.1	1.4±3.0;3.0
Ba-La-140	4.0±18.9;18.9	-14.7±26.7;26.8	-15.1±47.9;48.0	8.3±18.5;18.6

BD-04 Essex^a

Lab Code	BDAP-2796	BDAP-8126	BDAP-11156	BDAP-13134 ^b
Volume	3,694	3,699	3,697	1,998
Mn-54	-1.1±3.4;3.4	1.0±4.2;4.2	-2.8±4.0;4.0	2.1±8.9;8.9
Fe-59	6.9±9.5;9.5	-22.2±15.6;16.1	-5.5±12.9;12.9	-14.6±29.3;29.4
Co-58	-0.4±4.3;4.3	-1.9±6.3;6.3	3.5±5.3;5.3	2.0±12.8;12.8
Co-60	-3.4±5.3;5.3	-2.1±5.3;5.3	2.3±5.0;5.0	5.0±9.9;9.9
Zn-65	-4.6±10.9;10.9	-7.4±12.1;12.2	-1.4±10.2;10.2	-3.4±20.2;20.2
Zr-Nb-95	5.3±7.6;7.6	10.0±9.4;9.6	1.4±10.0;10.0	-10.9±25.7;25.8
Cs-134	-0.2±4.2;4.2	2.2±4.4;4.4	-1.9±5.3;5.3	-2.1±8.2;8.2
Cs-137	4.3±4.5;4.6	3.2±5.3;5.3	-0.6±4.3;4.3	4.9±8.2;8.3
Ba-La-140	-4.4±17.9;17.9	12.5±26.5;26.6	20.4±29.8;30.0	-145.0±435.0;435.8

^a Analyses of samples from this location was discontinued in accordance with UREMP. UREMP was implemented on 11-17-95.

^b Results reflect a seven week collection period due to UREMP implementation.

BRAIDWOOD

Table 2. Airborne Particulates
 Collection: Quarterly composites of weekly collections
 Required LLD: 0.05 pCi/m³ for Cs-134 and 0.06 pCi/m³ for Cs-137
 0.01 pCi/m³ for other gamma emitters
 Units: 10⁻⁴pCi/m³

Sample Description and Concentration				
<u>BD-05 Gardner^a</u>				
1995 Collection Period	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.
Lab Code	BDAP-2797	BDAP-8127	BDAP-11157	BDAP-13135 ^b
Volume	3,701	3,711	3,688	1,997
Mn-54	2.7±3.3;3.3	2.4±5.9;5.9	1.5±4.4;4.4	0.7±5.2;5.2
Fe-59	-7.0±8.1;8.1	2.2±14.7;14.7	-1.6±10.9;10.9	-1.2±26.3;26.3
Co-58	-2.5±4.1;4.1	-9.2±6.5;6.7	0.8±4.3;4.3	-4.6±8.2;8.2
Co-60	1.6±3.0;3.0	-0.8±5.0;5.0	3.8±3.6;3.7	-1.7±4.9;4.9
Zn-65	0.7±7.4;7.4	7.9±9.9;10.0	0.8±8.1;8.1	-11.8±12.2;12.3
Zr-Nb-95	8.0±8.0;8.1	1.3±11.2;11.2	0.7±9.2;9.2	3.3±16.4;16.4
Cs-134	1.6±4.0;4.0	2.2±4.4;4.4	-2.1±4.0;4.0	7.8±5.5;5.7
Cs-137	-1.4±3.3;3.3	1.6±4.4;4.4	4.4±4.0;4.0	0.2±4.8;4.8
Ba-La-140	-1.9±17.1;17.1	-66.4±41.1;42.8	-6.5±28.8;28.8	-26.0±253.3;253.3
<u>BD-06 Godley</u>				
Lab Code	BDAP-2798	BDAP-8128	BDAP-11158	BDAP-13137
Volume	3,704	3,691	3,663	3,717
Mn-54	-1.0±4.6;4.6	-3.0±6.1;6.1	-4.6±3.7;3.8	2.8±4.4;4.4
Fe-59	-5.6±12.4;12.4	-5.8±14.6;14.6	1.0±13.3;13.3	-9.5±13.2;13.3
Co-58	2.7±5.6;5.6	-4.3±7.6;7.6	0.7±5.0;5.0	-2.7±5.7;5.7
Co-60	-1.4±5.7;5.7	2.3±4.6;4.6	-1.5±3.8;3.8	3.0±4.5;4.5
Zn-65	0.6±10.6;10.6	-10.6±11.4;11.6	3.4±10.0;10.0	-7.0±9.6;9.7
Zr-Nb-95	-2.5±10.5;10.5	2.8±12.6;12.6	-3.4±9.3;9.3	3.7±9.6;9.7
Cs-134	1.1±4.9;4.9	3.2±4.2;4.3	-0.3±4.5;4.5	-0.5±4.7;4.7
Cs-137	-2.3±4.5;4.5	0.6±4.3;4.3	1.1±4.5;4.5	1.6±3.9;3.9
Ba-La-140	-16.4±26.8;27.0	-24.6±32.5;32.8	-2.5±30.2;30.2	5.2±22.7;22.7

^a Analyses of samples from this location was discontinued in accordance with UREMP. UREMP was implemented on 11-17-95.

^b Results reflect a seven week collection period due to UREMP implementation.

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Table 2. Airborne Particulates
 Collection: Quarterly composites of weekly collections
 Required LLD: 0.05 pCi/m³ for Cs-134 and 0.06 pCi/m³ for Cs-137
 0.01 pCi/m³ for other gamma emitters
 Units: 10⁻⁴pCi/m³

Sample Description and Concentration

BD-19 Nearsite, NW

1995 Collection Period	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.
Lab Code	BDAP-2799	BDAP-8129	BDAP-11159	BDAP-13138
Volume	3,695	3,699	3,612	3,549
Mn-54	0.9±7.1;7.1	0.6±5.5;5.5	1.4±3.4;3.4	-2.5±6.8;6.8
Fe-59	-8.4±24.1;24.1	11.5±12.2;12.4	-7.9±15.0;15.1	-2.5±19.0;19.0
Co-58	0.7±8.7;8.7	-0.4±6.9;6.9	-1.5±5.6;5.6	-4.3±7.4;7.4
Co-60	3.2±7.7;7.8	6.5±4.7;4.8	0.3±6.2;6.2	-0.9±6.8;6.8
Zn-65	-8.8±18.2;18.3	13.7±9.9;10.2	-2.2±10.1;10.1	-4.1±14.3;14.3
Zr-Nb-95	8.0±16.5;16.6	-14.3±11.1;11.4	-1.7±10.6;10.6	4.4±13.8;13.8
Cs-134	-1.3±7.6;7.6	-0.3±5.6;5.6	0.2±4.4;4.4	-2.9±6.6;6.6
Cs-137	2.1±6.7;6.7	1.6±4.7;4.7	-1.3±4.1;4.1	-1.5±5.7;5.7
Ba-La-140	10.1±22.4;22.5	-14.9±27.2;27.3	-16.3±17.0;17.2	-2.8±39.5;39.5

BD-20 Nearsite, N

Lab Code	BDAP-2800	BDAP-8130	BDAP-11160	BDAP-13139
Volume	3,774	3,743	3,693	3,712
Mn-54	1.0±2.7;2.7	2.7±4.7;4.7	1.0±5.0;5.0	-1.5±2.7;2.8
Fe-59	-0.6±9.2;9.2	3.8±12.0;12.0	3.8±14.6;14.6	1.8±9.3;9.3
Co-58	-0.2±3.8;3.8	-0.7±5.5;5.5	-1.8±6.2;6.2	-1.5±3.4;3.4
Co-60	1.3±3.1;3.1	-3.3±4.6;4.6	0.8±4.0;4.0	0.3±3.6;3.6
Zn-65	6.2±5.9;6.0	0.9±7.6;7.6	1.7±10.8;10.8	-7.4±7.1;7.2
Zr-Nb-95	0.4±6.8;6.8	6.5±9.8;9.8	2.2±9.7;9.7	-4.8±7.6;7.7
Cs-134	-0.7±3.7;3.7	-1.3±4.5;4.5	-2.0±4.2;4.2	0.5±3.4;3.4
Cs-137	-1.2±3.4;3.4	-1.6±4.4;4.4	0.4±4.0;4.0	1.4±3.3;3.3
Ba-La-140	-14.5±16.2;16.4	-51.4±58.6;59.3	3.1±36.2;36.2	60.4±23.7;26.0

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Table 2. Airborne Particulates
 Collection: Quarterly composites of weekly collections
 Required LLD: 0.05 pCi/m³ for Cs-134 and 0.06 pCi/m³ for Cs-137
 0.01 pCi/m³ for other gamma emitters
 Units: 10⁻⁴pCi/m³

Sample Description and Concentration

BD-21 Nearsite, NE

1995 Collection Period	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.
Lab Code	BDAP-2801	BDAP-8131	BDAP-11161	BDAP-13140
Volume	3,711	3,732	3,411	3,716
Mn-54	-0.7±3.2;3.2	1.6±3.9;3.9	2.3±6.6;6.6	0.7±6.2;6.2
Fe-59	2.3±6.8;6.9	2.9±16.1;16.1	12.5±21.0;21.1	1.5±23.1;23.1
Co-58	1.1±4.2;4.2	2.0±5.5;5.5	1.4±7.8;7.8	-0.6±7.2;7.2
Co-60	3.1±3.6;3.6	3.1±4.7;4.7	3.2±6.9;6.9	-3.1±8.5;8.5
Zn-65	0.3±6.4;6.4	8.9±10.1;10.2	-6.7±13.9;14.0	-4.0±16.9;16.9
Zr-Nb-95	4.3±6.6;6.6	6.2±10.1;10.2	2.4±12.5;12.5	-6.9±15.0;15.1
Cs-134	1.0±3.6;3.6	-6.5±4.7;4.8	0.2±6.1;6.1	0.8±6.6;6.6
Cs-137	2.1±3.1;3.1	2.3±4.7;4.7	1.2±6.2;6.2	4.0±6.1;6.1
Ba-La-140	-4.9±7.9;7.9	-1.5±31.5;31.5	-62.4±43.7;45.1	40.6±59.2;59.6

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Table 3. Milk
 Collection: Semi-monthly - May through October
 Monthly - November through April
 Required LLD: 1.0 pCi/L for I-131; 15 pCi/L for Cs-134 and Ba-La-140;
 18 pCi/L for Cs-137; 15 pCi/L for all other gamma emitters
 Units: pCi/L

Sample Description and Concentration

BD-17 Halpin's Dairy

Date Collected	01-06-95	02-03-95	03-03-95
Lab Code	BDMI-0089	BDMI-0741	BDMI-1538
I-131	0.22±0.25;0.25	0.09±0.12;0.12	0.11±0.19;0.19
Mn-54	-0.9±3.2;3.2	0.9±3.3;3.3	0.1±3.3;3.3
Fe-59	7.8±8.3;8.3	1.9±8.2;8.2	-1.4±8.3;8.3
Co-58	-3.0±3.6;3.6	-2.8±3.7;3.7	-1.9±4.2;4.2
Co-60	0.8±4.6;4.6	0.6±5.0;5.0	1.9±4.1;4.1
Zn-65	5.9±8.1;8.1	5.3±8.7;8.7	0.7±7.2;7.2
Zr-Nb-95	-2.2±5.1;5.1	-0.4±5.7;5.7	0.5±7.1;7.1
Cs-134	-1.2±4.0;4.0	2.9±3.6;3.6	-0.6±4.1;4.1
Cs-137	-2.0±3.4;3.4	0.1±3.8;3.8	-0.3±4.0;4.0
Ba-La-140	0.5±5.4;5.4	-3.7±5.5;5.5	6.1±4.3;4.3
Date Collected	04-01-95	05-05-95	05-19-95
Lab Code	BDMI-2142	BDMI-3807	BDMI-4748
I-131	-0.10±0.11;0.11	0.13±0.16;0.17	0.05±0.10;0.10
Mn-54	0.2±3.6;3.6	-1.2±2.3;2.3	-0.2±1.8;1.8
Fe-59	6.9±8.0;8.1	4.5±5.4;5.4	-1.0±4.4;4.4
Co-58	-0.1±3.4;3.4	0.1±2.3;2.3	-0.2±2.1;2.1
Co-60	3.5±4.7;4.7	-2.1±3.4;3.4	-1.3±2.7;2.7
Zn-65	-0.5±8.3;8.3	2.5±5.0;5.0	0.8±4.4;4.4
Zr-Nb-95	-0.2±5.8;5.8	-0.5±4.1;4.1	-0.8±3.5;3.5
Cs-134	2.2±3.7;3.7	-1.0±2.7;2.7	-0.6±2.3;2.3
Cs-137	1.0±3.7;3.7	0.6±2.7;2.7	0.8±2.1;2.1
Ba-La-140	1.9±3.3;3.3	0.5±2.5;2.5	0.3±2.5;2.5

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Table 3. Milk
 Collection: Semi-monthly - May through October
 Monthly - November through April
 Required LLD: 1.0 pCi/L for I-131; 15 pCi/L for Cs-134 and Ba-La-140;
 18 pCi/L for Cs-137; 15 pCi/L for all other gamma emitters
 Units: pCi/L

Sample Description and Concentration

BD-17 Halpin's Dairy

Date Collected	06-02-95	06-16-95	07-07-95
Lab Code	BDMI-5680	BDMI-6445	BDMI-7424
I-131	0.05±0.24;0.24	0.16±0.24;0.24	-0.09±0.17;0.17
Mn-54	-0.7±3.2;3.2	2.5±2.8;2.8	0.7±0.3;0.3
Fe-59	-5.5±9.5;9.5	-2.1±5.7;5.7	-0.4±7.5;7.5
Co-58	0.4±3.3;3.3	-1.0±2.8;2.8	-0.3±3.0;3.0
Co-60	1.3±4.4;4.4	0.3±3.2;3.2	-0.9±4.5;4.5
Zn-65	-3.5±8.9;8.9	-2.6±6.3;6.3	-1.7±7.6;7.6
Zr-Nb-95	0.4±6.7;6.7	0.4±4.4;4.4	0.7±5.3;5.3
Cs-134	-1.4±3.8;3.8	0.4±2.8;2.8	-0.4±3.2;3.2
Cs-137	-0.9±3.7;3.7	-0.1±2.8;2.8	0.7±3.4;3.4
Ba-La-140	-0.1±6.0;6.0	-0.6±3.2;3.2	-1.0±4.5;4.5
Date Collected	07-20-95	08-03-95	08-18-95
Lab Code	BDMI-7920	BDMI-8410	BDMI-8838
I-131	0.03±0.20;0.20	-0.04±0.24;0.24	-0.08±0.19;0.19
Mn-54	-0.4±2.3;2.3	0.2±3.4;3.4	2.6±3.3;3.3
Fe-59	0.8±5.2;5.2	-1.0±8.4;8.4	-3.2±9.1;9.1
Co-58	-0.5±2.2;2.2	1.6±3.1;3.1	-0.1±3.4;3.4
Co-60	-0.4±2.8;2.8	2.0±4.8;4.8	-0.7±4.7;4.7
Zn-65	-0.7±5.2;5.2	3.7±8.0;8.1	0.4±8.9;8.9
Zr-Nb-95	-2.5±4.2;4.2	3.1±6.3;6.3	6.3±6.3;6.4
Cs-134	0.2±2.5;2.5	0.3±3.5;3.5	3.6±4.6;4.6
Cs-137	0.1±2.0;2.0	-1.5±3.5;3.5	3.6±3.6;3.6
Ba-La-140	0.7±1.6;1.6	3.5±5.4;5.4	-3.9±4.4;4.4

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Table 3. Milk
 Collection: Semi-monthly - May through October
 Monthly - November through April
 Required LLD: 1.0 pCi/L for I-131; 15 pCi/L for Cs-134 and Ba-La-140;
 18 pCi/L for Cs-137; 15 pCi/L for all other gamma emitters
 Units: pCi/L

Sample Description and Concentration

BD-17 Halpin's Dairy

Date Collected	09-01-95	09-15-95	10-06-95
Lab Code	BDMI-9239	BDMI-9635	BDMI-10404
I-131	0.12±0.13;0.13	0.09±0.25;0.25	-0.07±0.17;0.17
Mn-54	-2.4±3.3;3.3	-0.3±2.1;2.1	-0.7±3.4;3.4
Fe-59	2.5±9.1;9.1	2.3±5.4;5.4	2.9±8.2;8.2
Co-58	1.3±3.2;3.2	-0.5±2.8;2.8	0.1±3.6;3.6
Co-60	2.4±5.0;5.0	-0.8±3.1;3.1	2.3±4.9;4.9
Zn-65	3.7±8.2;8.2	1.1±6.4;6.4	-1.0±8.3;8.3
Zr-Nb-95	-0.9±5.8;5.8	-0.2±4.4;4.4	-2.4±6.4;6.4
Cs-134	-1.5±3.8;3.8	-0.4±2.5;2.5	0.7±3.9;3.9
Cs-137	1.5±3.7;3.7	0.7±2.5;2.5	1.1±3.6;3.6
Ba-La-140	1.5±3.9;3.9	3.0±2.3;2.4	-4.7±6.2;6.2
Date Collected	10-20-95	11-03-95	12-01-95
Lab Code	BDMI-11166	BDMI-11512	BDMI-12141
I-131	0.04±0.15;0.15	0.20±0.24;0.24	0.15±0.17;0.17
Mn-54	-2.8±3.7;3.7	3.1±3.1;3.1	-1.7±3.0;3.0
Fe-59	-4.0±9.7;9.7	8.8±8.8;8.8	1.4±8.7;8.7
Co-58	3.5±4.0;4.1	1.1±3.5;3.5	-1.6±3.6;3.6
Co-60	1.6±5.4;5.4	-0.1±3.9;3.9	0.1±4.9;4.9
Zn-65	-2.5±9.3;9.3	2.7±7.3;7.3	3.8±9.1;9.1
Zr-Nb-95	1.6±6.3;6.3	0.2±6.1;6.1	-6.2±6.9;7.0
Cs-134	-2.5±4.2;4.2	-0.9±3.1;3.1	0.6±3.7;3.7
Cs-137	0.1±4.0;4.0	0.3±3.2;3.2	-0.3±3.9;3.9
Ba-La-140	0.7±8.9;8.9	-5.0±10.3;10.3	-5.8±5.2;5.3

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Table 3. Milk
 Collection: Semi-monthly - May through October
 Monthly - November through April
 Required LLD: 1.0 pCi/L for I-131; 15 pCi/L for Cs-134 and Ba-La-140;
 18 pCi/L for Cs-137; 15 pCi/L for all other gamma emitters
 Units: pCi/L

Sample Description and Concentration

		<u>BD-18 (C) Biros Farm</u>		
Date Collected		01-07-95	02-04-95	03-04-95
Lab Code		BDMI-0090	BDMI-0742	BDMI-1539
I-131		0.12±0.24;0.24	0.14±0.18;0.18	-0.08±0.15;0.15
Mn-54		-0.9±4.2;4.2	-0.6±3.2;3.2	0.2±3.2;3.2
Fe-59		-4.1±9.9;9.9	-2.1±7.5;7.5	-5.4±9.3;9.3
Co-58		-0.8±4.5;4.5	-1.7±3.0;3.0	0.2±3.3;3.3
Co-60		-1.6±5.4;5.4	-3.1±4.0;4.0	0.7±4.5;4.5
Zn-65		-1.0±10.3;10.3	0.3±8.8;8.8	-0.5±9.8;9.8
Zr-Nb-95		0.5±7.6;7.6	0.4±4.3;4.3	0.4±6.7;6.7
Cs-134		2.0±4.8;4.8	-0.3±3.1;3.1	3.5±3.9;3.9
Cs-137		1.0±3.9;3.9	2.7±3.6;3.6	-0.1±3.2;3.2
Ba-La-140		-1.4±6.7;6.7	2.8±2.2;2.3	-3.1±5.9;5.9
Date Collected		04-01-95	05-06-95	05-19-95
Lab Code		BDMI-2143	BDMI-3808	BDMI-4749
I-131		0.09±0.15;0.15	0.10±0.15;0.15	0.06±0.13;0.13
Mn-54		0.6±2.0;2.0	-1.7±3.6;3.6	-2.5±4.0;4.0
Fe-59		0.9±4.7;4.7	0.3±7.2;7.2	4.9±7.0;7.0
Co-58		-1.4±2.1;2.1	-0.7±3.4;3.4	-0.7±2.4;2.4
Co-60		2.7±3.1;3.1	0.4±4.7;4.7	0.2±4.6;4.6
Zn-65		1.6±4.7;4.7	1.0±6.9;6.9	-0.7±9.1;9.1
Zr-Nb-95		3.1±3.7;3.7	6.5±5.7;5.8	-1.0±5.6;5.6
Cs-134		0.1±2.3;2.3	0.6±3.8;3.8	-1.4±3.7;3.7
Cs-137		-0.2±2.6;2.6	3.8±3.6;3.6	4.3±4.3;4.4
Ba-La-140		0.5±2.3;2.3	0.5±5.6;5.6	-1.0±2.9;2.9

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Table 3. Milk
 Collection: Semi-monthly - May through October
 Monthly - November through April
 Required LLD: 1.0 pCi/L for I-131; 15 pCi/L for Cs-134 and Ba-La-140;
 18 pCi/L for Cs-137; 15 pCi/L for all other gamma emitters
 Units: pCi/L

Sample Description and Concentration

BD-18 (C) Biros Farm

Date Collected	06-02-95	06-16-95	07-07-95
Lab Code	BDMI-5681	BDMI-6446.7	BDMI-7425
I-131	0.11±0.19;0.19	-0.02±0.16;0.16	0.03±0.19;0.19
Mn-54	1.7±2.5;2.5	1.3±1.8;1.9	-0.2±2.3;2.3
Fe-59	4.7±5.7;5.7	0.0±4.4;4.4	3.0±5.7;5.7
Co-58	0.9±2.5;2.5	-1.3±1.8;1.8	0.2±2.5;2.5
Co-60	0.0±3.1;3.1	0.3±15.8;15.8	1.4±3.0;3.0
Zn-65	1.6±5.9;5.9	0.0±4.7;4.7	-1.0±5.4;5.4
Zr-Nb-95	0.4±4.8;4.8	-1.1±3.2;3.2	0.1±4.7;4.7
Cs-134	-2.0±2.5;2.5	-0.8±2.0;2.0	1.4±2.6;2.6
Cs-137	2.2±2.8;2.8	0.7±2.0;2.0	1.7±2.7;2.7
Ba-La-140	1.6±3.4;3.4	-0.4±2.1;2.1	-1.3±3.1;3.1
Date Collected	07-21-95	08-03-95	08-18-95
Lab Code	BDMI-7921	BDMI-8411	BDMI-8839
I-131	0.01±0.19;0.19	0.19±0.20;0.20	0.04±0.17;0.17
Mn-54	-0.5±2.5;2.5	-0.4±2.2;2.2	-0.3±3.1;3.1
Fe-59	1.9±5.4;5.4	1.9±5.4;5.4	-5.6±6.9;6.9
Co-58	-1.9±2.7;2.7	-1.7±2.5;2.5	0.6±3.6;3.6
Co-60	0.2±3.4;3.4	1.2±3.3;3.3	0.3±4.0;4.0
Zn-65	2.4±6.7;6.7	-2.9±5.8;5.8	1.7±8.0;8.0
Zr-Nb-95	3.3±4.5;4.5	2.0±4.1;4.1	0.6±5.8;5.8
Cs-134	-1.6±2.7;2.7	0.2±2.4;2.4	-0.7±3.7;3.7
Cs-137	0.8±2.9;2.9	0.4±2.7;2.7	0.2±3.4;3.4
Ba-La-140	-0.4±3.0;3.0	-3.0±4.7;4.7	-1.4±6.0;6.0

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Table 3. Milk
 Collection: Semi-monthly - May through October
 Monthly - November through April
 Required LLD: 1.0 pCi/L for I-131; 15 pCi/L for Cs-134 and Ba-La-140;
 18 pCi/L for Cs-137; 15 pCi/L for all other gamma emitters
 Units: pCi/L

Sample Description and Concentration

BD-18 (C) Biros Farm

Date Collected	09-01-95	09-15-95	10-06-95
Lab Code	BDMI-9240	BDMI-9636	BDMI-10405
I-131	0.18±0.23;0.23	0.06±0.20;0.20	0.09±0.17;0.17
Mn-54	-0.7±2.5;2.5	0.5±3.4;3.4	-1.0±3.4;3.4
Fe-59	-0.6±5.6;5.6	5.8±7.8;7.8	1.6±8.1;8.1
Co-58	0.7±2.4;2.4	2.4±3.2;3.2	-0.4±3.6;3.6
Co-60	0.2±3.3;3.3	2.9±4.6;4.6	-0.6±5.0;5.0
Zn-65	-2.3±6.0;6.0	-1.5±7.4;7.4	4.9±8.0;8.1
Zr-Nb-95	-2.9±4.5;4.6	0.6±5.7;5.7	-5.6±6.7;6.7
Cs-134	0.8±2.7;2.7	0.4±3.4;3.4	2.9±3.6;3.7
Cs-137	0.2±3.0;3.0	1.6±3.6;3.6	0.6±3.3;3.3
Ba-La-140	0.6±2.8;2.8	-1.7±5.0;5.0	-0.5±4.2;4.2
Date Collected	10-20-95	11-04-95	12-01-95
Lab Code	BDMI-11167	BDMI-11513	BDMI-12142
I-131	0.04±0.19;0.19	-0.01±0.19;0.19	0.12±0.17;0.18
Mn-54	1.7±2.8;2.8	-1.2±2.8;2.8	1.7±2.5;2.5
Fe-59	2.7±7.3;7.3	4.4±8.5;8.5	-0.2±6.2;6.2
Co-58	-2.0±2.8;2.9	-0.5±3.6;3.6	1.6±2.6;2.6
Co-60	0.6±3.2;3.2	1.5±5.0;5.0	-1.8±3.1;3.1
Zn-65	-9.1±6.4;6.5	-2.3±6.9;6.9	-5.5±6.9;6.9
Zr-Nb-95	-1.9±4.9;4.9	0.6±6.0;6.0	3.0±4.8;4.8
Cs-134	-0.7±2.5;2.5	-0.7±3.3;3.3	1.0±3.0;3.0
Cs-137	3.4±2.4;2.5	0.9±3.6;3.6	2.0±2.7;2.7
Ba-La-140	7.3±5.3;5.3	-5.1±4.6;4.6	-3.9±4.1;4.1

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Table 3. Milk
 Collection: Semi-monthly - May through October
 Monthly - November through April
 Required LLD: 1.0 pCi/L for I-131; 15 pCi/L for Cs-134 and Ba-La-140;
 18 pCi/L for Cs-137; 15 pCi/L for all other gamma emitters
 Units: pCi/L

Sample Description and Concentration

BDSP-24 Goodwin Dairy Farm

Date Collected	01-06-95	02-03-95	03-03-95
Lab Code	BDMI-0091	BDMI-0743	BDMI-1540
I-131	-0.18±0.20;0.20	0.16±0.20;0.20	0.16±0.25;0.25
Mn-54	2.0±2.3;2.3	-1.0±3.7;3.7	-0.5±2.5;2.5
Fe-59	1.2±5.2;5.2	-1.8±8.1;8.1	-2.5±7.4;7.4
Co-58	1.0±2.3;2.3	-2.2±3.6;3.6	0.9±2.7;2.7
Co-60	1.8±2.8;2.8	-1.4±3.9;3.9	0.1±4.0;4.0
Zn-65	-1.4±5.2;5.2	4.9±8.9;8.9	-8.6±7.5;7.5
Zr-Nb-95	1.5±4.1;4.1	-0.9±6.0;6.0	-2.0±5.3;5.3
Cs-134	0.5±2.3;2.3	0.3±3.8;3.8	0.6±3.4;3.4
Cs-137	3.2±2.8;2.8	-1.1±3.6;3.6	1.3±3.0;3.0
Ba-La-140	0.1±3.5;3.5	-1.3±3.9;3.9	2.3±4.6;4.6

Date Collected	04-01-95	05-05-95	05-19-95
Lab Code	BDMI-2144	BDMI-3809,10	BDMI-4750
I-131	-0.09±0.13;0.13	0.16±0.13;0.13	0.010±13;0.13
Mn-54	2.7±3.5;3.5	0.5±1.7;1.7	-1.6±2.3;2.3
Fe-59	-1.9±10.0;10.0	1.5±3.9;3.9	0.7±5.1;5.1
Co-58	-2.0±3.7;3.7	-1.5±1.6;1.6	1.2±2.3;2.3
Co-60	-3.3±5.3;5.3	-0.1±8.8;8.8	3.6±2.7;2.8
Zn-65	-1.9±9.2;9.2	-1.6±3.8;3.8	3.5±5.7;5.7
Zr-Nb-95	-2.0±6.4;6.4	0.0±2.9;2.9	1.5±4.5;4.5
Cs-134	-0.8±4.7;4.7	1.4±1.9;1.9	-0.2±2.6;2.6
Cs-137	-0.6±3.8;3.8	0.5±1.7;1.7	0.2±2.6;2.6
Ba-La-140	1.8±5.7;5.7	-0.6±2.1;2.1	-0.9±2.9;2.9

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Table 3. Milk
 Collection: Semi-monthly - May through October
 Monthly - November through April
 Required LLD: 1.0 pCi/L for I-131; 15 pCi/L for Cs-134 and Ba-La-140;
 18 pCi/L for Cs-137; 15 pCi/L for all other gamma emitters
 Units: pCi/L

Sample Description and Concentration

BDSP-24 Goodwin Dairy Farm

Date Collected	06-02-95	06-16-95	07-07-95
Lab Code	BDMI-5682	BDMI-6448	BDMI-7426
I-131	0.02±0.23;0.23	0.23±0.25;0.25	0.08±0.20;0.20
Mn-54	-3.2±3.4;3.5	-2.4±3.0;3.0	0.2±2.0;2.0
Fe-59	-3.0±8.4;8.4	-5.8±9.2;9.2	-1.1±5.3;5.3
Co-58	0.8±3.7;3.7	0.3±3.7;3.7	0.4±2.4;2.4
Co-60	-0.8±4.9;4.9	2.0±4.7;4.7	-0.3±3.0;3.0
Zn-65	3.0±9.8;9.8	4.5±8.3;8.3	4.5±6.1;6.1
Zr-Nb-95	1.6±6.5;6.5	0.5±5.9;5.9	-0.8±4.2;4.2
Cs-134	-1.9±3.3;3.3	-1.4±3.4;3.4	1.3±2.6;2.6
Cs-137	1.0±3.7;3.7	3.4±3.4;3.4	-0.1±2.7;2.7
Ba-La-140	0.9±3.5;3.5	1.2±5.5;5.5	-0.7±2.2;2.2
Date Collected	07-21-95	08-03-95	08-18-95
Lab Code	BDMI-7922,3	BDMI-8412	BDMI-8840
I-131	0.05±0.15;0.15	0.14±0.19;0.19	0.16±0.17;0.17
Mn-54	-0.1±2.3;2.3	2.4±3.5;3.5	-1.3±3.6;3.6
Fe-59	0.6±4.5;4.5	-0.7±8.9;8.9	-7.3±9.8;9.8
Co-58	-0.4±1.9;1.9	1.3±3.2;3.2	0.8±3.4;3.4
Co-60	-0.2±2.7;2.7	-0.1±5.4;5.4	-0.9±4.4;4.4
Zn-65	-0.3±4.9;4.9	1.7±7.3;7.3	2.3±7.1;7.1
Zr-Nb-95	0.9±3.9;3.9	5.3±6.6;6.7	0.5±5.1;5.1
Cs-134	1.4±2.3;2.3	-1.0±3.8;3.8	-0.6±3.6;3.6
Cs-137	0.4±2.2;2.2	0.5±3.9;3.9	1.6±3.8;3.8
Ba-La-140	0.9±1.8;1.8	-7.8±8.1;8.1	2.7±4.5;4.5

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Table 3. Milk
 Collection: Semi-monthly - May through October
 Monthly - November through April
 Required LLD: 1.0 pCi/L for I-131; 15 pCi/L for Cs-134 and Ba-La-140;
 18 pCi/L for Cs-137; 15 pCi/L for all other gamma emitters
 Units: pCi/L

Sample Description and Concentration

BDSP-24 Goodwin Dairy Farm

Date Collected	09-01-95	09-15-95	10-06-95
Lab Code	BDMI-9241	BDMI-9637	BDMI-10406
I-131	0.13±0.23;0.23	0.09±0.22;0.22	0.04±0.18;0.18
Mn-54	1.2±1.9;1.9	0.4±3.0;3.0	-0.8±2.3;2.3
Fe-59	1.1±4.3;4.3	-2.0±5.6;5.6	-1.8±4.9;4.9
Co-58	-1.4±2.1;2.1	-1.6±2.9;2.9	-0.5±2.4;2.4
Co-60	0.7±2.9;2.9	0.1±3.8;3.8	0.2±2.9;2.9
Zn-65	-0.3±4.4;4.4	-3.6±7.5;7.5	-3.0±5.4;5.5
Zr-Nb-95	-1.9±3.9;3.9	0.9±5.8;5.8	0.2±4.3;4.3
Cs-134	0.9±2.4;2.4	4.6±3.4;3.5	1.1±2.6;2.6
Cs-137	-0.1±2.4;2.4	0.1±3.4;3.4	1.3±2.4;2.4
Ba-La-140	0.3±3.1;3.1	-0.8±3.3;3.3	-2.7±4.2;4.2
Date Collected	10-20-95	11-03-95	12-01-95
Lab Code	BDMI-11168	BDMI-11514	BDMI-12356
I-131	0.25±0.25;0.26	0.02±0.11;0.11	0.00±0.18;0.18
Mn-54	1.7±3.6;3.6	1.9±2.6;2.7	2.0±3.9;3.9
Fe-59	2.0±9.3;9.3	3.8±8.3;8.3	2.3±10.7;10.7
Co-58	-1.4±4.0;4.0	-2.3±3.3;3.3	-1.4±4.0;4.0
Co-60	-4.9±5.8;5.8	1.4±4.0;4.0	-1.2±5.0;5.0
Zn-65	1.4±8.8;8.8	-1.6±8.5;8.5	3.6±9.8;9.8
Zr-Nb-95	0.5±7.0;7.0	-4.4±5.6;5.6	-1.5±7.4;7.4
Cs-134	-0.6±3.9;3.9	0.6±3.3;3.3	-3.4±4.2;4.2
Cs-137	2.7±3.4;3.4	-0.6±3.3;3.3	1.6±3.9;3.9
Ba-La-140	-0.4±9.4;9.4	0.2±7.2;7.2	-8.5±7.1;7.2

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Table 3. Milk
 Collection: Semi-monthly - May through October
 Monthly - November through April
 Required LLD: 1.0 pCi/L for I-131; 15 pCi/L for Cs-134 and Ba-La-140;
 18 pCi/L for Cs-137; 15 pCi/L for all other gamma emitters
 Units: pCi/L

Sample Description and Concentration

<u>BD-26 Gaddis Farm</u>			
Date Collected	01-06-95	02-03-95	03-03-95
Lab Code	BDMI-0092	BDMI-0744	BDMI-1541
I-131	-0.14±0.20;0.20	0.15±0.21;0.21	0.13±0.21;0.21
Mn-54	0.9±2.2;2.2	-1.7±2.9;2.9	5.1±4.1;4.1
Fe-59	1.2±5.0;5.0	-4.4±7.7;7.7	-14.4±10.1;10.3
Co-58	-1.4±2.4;2.4	-1.0±3.2;3.2	-0.2±5.0;5.0
Co-60	1.3±3.1;3.1	-2.7±4.3;4.3	4.8±5.0;5.0
Zn-65	-2.8±5.6;5.6	1.2±7.1;7.1	4.3±12.0;12.0
Zr-Nb-95	0.7±3.8;3.8	-2.8±5.2;5.2	6.4±6.8;6.8
Cs-134	1.1±2.4;2.4	0.8±3.6;3.6	-1.0±4.9;4.9
Cs-137	1.2±2.5;2.5	1.5±3.4;3.4	4.2±4.2;4.2
Ba-La-140	2.3±3.4;3.4	-1.3±4.2;4.2	-3.1±6.8;6.8
Date Collected	04-01-95	05-05-95	05-19-95
Lab Code	BDMI-2145	BDMI-3811	BDMI-4751
I-131	-0.01±0.13;0.13	0.13±0.19;0.19	-0.06±0.12;0.12
Mn-54	0.6±2.0;2.0	0.5±2.4;2.4	1.4±2.6;2.6
Fe-59	1.0±5.0;5.0	0.9±5.3;5.3	0.9±5.0;5.0
Co-58	1.2±2.2;2.2	1.2±2.2;2.2	0.2±2.4;2.4
Co-60	1.2±2.9;2.9	1.5±3.1;3.1	-0.3±3.0;3.0
Zn-65	1.7±4.8;4.8	1.3±5.8;5.8	-0.2±5.9;5.9
Zr-Nb-95	-0.1±3.5;3.5	-0.8±2.9;2.9	-2.5±4.3;4.4
Cs-134	-0.9±2.2;2.2	0.1±2.9;2.9	1.3±2.7;2.7
Cs-137	0.2±2.0;2.0	0.9±2.5;2.5	0.2±2.3;2.3
Ba-La-140	1.4±2.9;2.9	-1.3±2.5;2.5	0.3±3.1;3.1

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Table 3. Milk
 Collection: Semi-monthly - May through October
 Monthly - November through April
 Required LLD: 1.0 pCi/L for I-131; 15 pCi/L for Cs-134 and Ba-La-140;
 18 pCi/L for Cs-137; 15 pCi/L for all other gamma emitters
 Units: pCi/L

Sample Description and Concentration

BD-26 Gaddis Farm

Date Collected	06-02-95	06-16-95	07-07-95
Lab Code	BDMI-5683	BDMI-6449	BDMI-7427
I-131	-0.06±0.21;0.21	0.05±0.19;0.19	0.07±0.15;0.15
Mn-54	0.2±2.2;2.2	0.2±2.0;2.0	1.7±3.7;3.7
Fe-59	0.4±5.7;5.7	-1.3±4.6;4.6	0.6±7.4;7.4
Co-58	0.5±2.3;2.3	0.1±2.0;2.0	-0.1±3.0;3.0
Co-60	-0.5±3.0;3.0	-1.0±3.0;3.0	-1.3±4.5;4.5
Zn-65	-4.0±5.7;5.7	-0.3±5.0;5.0	2.0±7.0;7.0
Zr-Nb-95	-0.8±4.4;4.4	1.3±3.9;3.9	3.1±5.5;5.5
Cs-134	-0.8±2.5;2.5	-0.5±2.0;2.0	-1.3±3.8;3.8
Cs-137	1.1±2.6;2.6	0.7±2.3;2.3	1.0±2.9;2.9
Ba-La-140	1.2±3.9;3.9	0.1±3.4;3.4	3.7±2.9;3.0
Date Collected	07-21-95	08-03-95	08-18-95
Lab Code	BDMI-7924	BDMI-8413,4	BDMI-8841
I-131	0.10±0.22;0.22	0.09±0.16;0.16	0.18±0.23;0.23
Mn-54	-0.8±2.6;2.6	0.1±1.9;1.9	-0.3±3.1;3.1
Fe-59	-1.5±6.0;6.0	0.9±4.5;4.5	1.4±9.2;9.2
Co-58	-0.2±2.7;2.7	-1.5±2.1;2.1	0.3±3.7;3.7
Co-60	2.9±3.0;3.0	-1.0±3.0;3.0	-0.5±5.0;5.0
Zn-65	5.4±5.9;6.0	-4.1±4.9;4.9	0.3±7.0;7.0
Zr-Nb-95	2.3±5.0;5.0	-1.8±3.5;3.5	0.7±5.7;5.7
Cs-134	0.2±2.7;2.7	-0.1±2.5;2.5	-0.6±3.4;3.4
Cs-137	-1.9±2.7;2.7	-1.0±2.2;2.2	-0.1±3.5;3.5
Ba-La-140	-0.5±3.8;3.8	-4.5±4.0;4.0	5.6±5.6;5.6

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Table 3. Milk
 Collection: Semi-monthly - May through October
 Monthly - November through April
 Required LLD: 1.0 pCi/L for I-131; 15 pCi/L for Cs-134 and Ba-La-140;
 18 pCi/L for Cs-137; 15 pCi/L for all other gamma emitters
 Units: pCi/L

Sample Description and Concentration

BD-26 Gaddis Farm

Date Collected	09-01-95	09-15-95	10-06-95
Lab Code	BDMI-9242	BDMI-9638	BDMI-10407
I-131	-0.01±0.17;0.17	0.01±0.20;0.20	0.13±0.19;0.19
Mn-54	0.8±3.2;3.2	-0.3±2.8;2.8	0.9±2.1;2.1
Fe-59	-2.9±8.5;8.5	3.5±6.7;6.7	0.7±4.7;4.7
Co-58	0.4±2.8;2.8	-2.1±2.8;2.8	0.1±2.3;2.3
Co-60	1.5±4.3;4.3	-0.5±4.1;4.1	0.8±3.0;3.0
Zn-65	2.7±7.7;7.7	0.4±7.5;7.5	-0.6±5.6;5.6
Zr-Nb-95	0.4±6.7;6.7	3.7±5.5;5.6	4.1±4.0;4.0
Cs-134	-0.3±3.1;3.1	-1.3±3.2;3.2	1.0±2.1;2.1
Cs-137	-0.8±3.0;3.0	1.9±3.3;3.3	-0.3±2.3;2.3
Ba-La-140	-0.2±4.6;4.6	-2.8±3.9;3.9	-0.2±2.6;2.6
Date Collected	10-20-95	11-03-95	12-01-95
Lab Code	BDMI-11169	BDMI-11515	NS ^a
I-131	0.11±0.20;0.21	0.01±0.18;0.18	-
Mn-54	0.6±3.1;3.1	0.3±3.6;3.6	-
Fe-59	-1.9±9.7;9.7	0.7±7.7;7.7	-
Co-58	1.5±3.5;3.5	1.0±4.2;4.2	-
Co-60	-2.4±4.5;4.5	-1.2±5.3;5.3	-
Zn-65	0.9±6.8;6.8	-6.9±7.7;7.8	-
Zr-Nb-95	-2.6±6.1;6.1	1.5±6.1;6.1	-
Cs-134	0.8±3.8;3.8	-0.9±3.4;3.4	-
Cs-137	3.5±3.8;3.8	2.8±3.7;3.7	-
Ba-La-140	-1.5±6.2;6.2	3.3±3.3;3.4	-

^a Sampling location deleted from the program in accordance with UREMP. UREMP was implemented on 11-17-95.

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Table 3. Milk
 Collection: Semi-monthly - May through October
 Monthly - November through April
 Required LLD: 1.0 pCi/L for I-131; 15 pCi/L for Cs-134 and Ba-La-140;
 18 pCi/L for Cs-137; 15 pCi/L for all other gamma emitters
 Units: pCi/L

Sample Description and Concentration

BD-27 Prussner Farm

Date Collected	01-06-95	02-03-95	03-03-95
Lab Code	BDMI-0093	BDMI-0745	BDMI-1542
I-131	0.24±0.25;0.25	-0.03±0.18;0.18	-0.07±0.21;0.21
Mn-54	-1.2±3.3;3.3	0.4±5.1;5.1	-1.1±4.1;4.1
Fe-59	0.7±6.2;6.2	1.8±9.9;9.9	-0.5±10.1;10.1
Co-58	-1.1±2.7;2.7	-0.3±4.3;4.3	-3.0±4.2;4.2
Co-60	-0.6±3.8;3.8	-2.2±5.6;5.6	1.0±4.5;4.5
Zn-65	-2.8±7.9;7.9	0.4±9.7;9.7	2.1±10.9;10.9
Zr-Nb-95	-1.2±5.6;5.6	-3.3±7.1;7.1	-1.3±7.0;7.0
Cs-134	-0.4±3.2;3.2	-0.4±4.2;4.2	-0.8±3.6;3.6
Cs-137	1.0±3.4;3.4	-2.1±4.2;4.2	1.6±4.0;4.0
Ba-La-140	1.7±3.4;3.4	2.7±3.3;3.3	0.2±5.7;5.7
Date Collected	04-01-95	05-05-95	05-19-95
Lab Code	BDMI-2146	BDMI-3812	BDMI-4752
I-131	0.02±0.13;0.13	0.09±0.16;0.16	-0.05±0.12;0.12
Mn-54	-0.7±2.3;2.3	-2.5±3.5;3.5	1.0±2.8;2.8
Fe-59	-1.3±5.0;5.0	-2.4±7.3;7.3	-1.8±6.7;6.7
Co-58	-0.7±2.1;2.1	3.4±3.8;3.8	-3.1±2.9;2.9
Co-60	0.4±2.8;2.8	-0.6±5.1;5.1	-1.1±4.1;4.1
Zn-65	-1.1±5.1;5.1	-1.5±7.3;7.3	-0.1±7.6;7.6
Zr-Nb-95	-1.1±4.0;4.0	2.6±6.2;6.2	1.2±5.6;5.6
Cs-134	1.8±2.5;2.5	0.3±3.8;3.8	3.2±3.2;3.3
Cs-137	-0.9±2.1;2.1	0.1±3.5;3.5	-0.9±3.3;3.3
Ba-La-140	-2.1±2.9;3.0	-1.1±3.0;3.0	-1.3±4.0;4.0

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Table 3. Milk
 Collection: Semi-monthly - May through October
 Monthly - November through April
 Required LLD: 1.0 pCi/L for I-131; 15 pCi/L for Cs-134 and Ba-La-140;
 18 pCi/L for Cs-137; 15 pCi/L for all other gamma emitters
 Units: pCi/L

Sample Description and Concentration

BD-27 Prussner Farm

Date Collected	06-02-95	06-16-95	07-07-95
Lab Code	BDMI-5684,5	BDMI-6450	BDMI-7428
I-131	0.04±0.10;0.10	-0.15±0.21;0.21	0.09±0.12;0.12
Mn-54	-1.4±2.1;2.1	-2.1±2.1;2.1	0.8±3.2;3.2
Fe-59	0.2±4.8;4.8	0.8±4.7;4.7	3.0±7.6;7.7
Co-58	-0.4±2.1;2.1	0.1±1.9;1.9	2.3±2.9;2.9
Co-60	0.3±15.1;15.1	0.7±2.9;2.9	-1.0±4.5;4.5
Zn-65	-1.2±4.7;4.7	-1.1±4.6;4.6	0.6±7.2;7.2
Zr-Nb-95	-2.2±4.1;4.1	-4.2±3.9;3.9	-1.3±5.8;5.8
Cs-134	-0.1±2.0;2.0	-0.4±2.5;2.5	-2.6±3.8;3.8
Cs-137	0.5±2.1;2.1	0.4±2.2;2.2	0.6±3.4;3.4
Ba-La-140	-2.5±3.6;3.6	0.1±3.5;3.5	-0.3±3.6;3.6
Date Collected	07-21-95	08-03-95	08-18-95
Lab Code	BDMI-7925	BDMI-8415	BDMI-8842
I-131	0.08±0.20;0.20	0.22±0.22;0.22	0.10±0.16;0.16
Mn-54	1.1±3.4;3.4	-0.8±3.3;3.3	0.3±4.4;4.4
Fe-59	-6.0±8.0;8.1	5.4±7.2;7.2	3.8±10.7;10.7
Co-58	0.5±3.4;3.4	-0.6±3.2;3.2	0.6±3.7;3.7
Co-60	6.4±4.2;4.3	2.6±4.1;4.1	0.2±5.4;5.4
Zn-65	-2.5±8.7;8.7	0.5±7.8;7.8	10.2±8.2;8.3
Zr-Nb-95	0.7±5.7;5.7	3.6±6.1;6.1	4.6±7.8;7.8
Cs-134	0.3±3.5;3.5	0.1±3.5;3.5	1.6±4.7;4.7
Cs-137	-1.6±2.9;2.9	0.6±3.3;3.3	2.5±4.7;4.7
Ba-La-140	-1.1±5.7;5.7	0.6±5.9;5.9	7.3±6.0;6.1

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Table 3. Milk
 Collection: Semi-monthly - May through October
 Monthly - November through April
 Required LLD: 1.0 pCi/L for I-131; 15 pCi/L for Cs-134 and Ba-La-140;
 18 pCi/L for Cs-137; 15 pCi/L for all other gamma emitters
 Units: pCi/L

Sample Description and Concentration

BD-27 Prussner Farm

Date Collected	09-01-95	09-15-95	10-06-95
Lab Code	BDMI-9243	BDMI-9639	BDMI-10408
I-131	0.02±0.15;0.15	-0.07±0.17;0.17	0.11±0.15;0.15
Mn-54	-0.3±2.0;2.0	0.6±2.2;2.2	0.1±2.4;2.4
Fe-59	-0.2±5.8;5.8	0.5±4.3;4.3	0.6±5.5;5.5
Co-58	-0.2±2.4;2.4	-1.6±1.9;1.9	0.2±2.3;2.3
Co-60	-0.5±2.9;2.9	1.0±2.8;2.8	-0.6±3.4;3.4
Zn-65	-1.8±5.5;5.5	0.7±4.4;4.4	2.2±5.2;5.2
Zr-Nb-95	-1.0±4.1;4.1	0.5±3.6;3.6	-0.7±4.3;4.3
Cs-134	0.5±2.6;2.6	0.1±2.3;2.3	-0.1±2.7;2.7
Cs-137	1.0±2.4;2.4	0.2±2.2;2.2	2.3±2.3;2.4
Ba-La-140	-1.5±3.6;3.6	0.4±1.9;1.9	1.4±4.6;4.6
Date Collected	10-20-95	11-03-95	12-01-95
Lab Code	BDMI-11170	BDMI-11516	NS ^a
I-131	0.17±0.23;0.23	0.16±0.21;0.21	-
Mn-54	0.2±2.3;2.3	-0.1±2.5;2.5	-
Fe-59	-0.9±6.7;6.7	1.8±6.2;6.2	-
Co-58	-2.5±2.7;2.7	0.7±2.5;2.5	-
Co-60	-1.1±2.8;2.8	-0.1±2.9;2.9	-
Zn-65	2.2±6.0;6.0	-1.2±5.4;5.4	-
Zr-Nb-95	1.3±4.2;4.2	-0.5±4.3;4.3	-
Cs-134	0.3±2.4;2.4	-0.6±3.0;3.0	-
Cs-137	-1.2±2.4;2.4	0.6±2.7;2.7	-
Ba-La-140	-1.6±4.8;4.8	-0.2±2.7;2.7	-

^a Sampling location deleted from the program in accordance with UREMP. UREMP was implemented on 11-17-95.

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Table 4. Fish, Edible Portions
 Collection: Three (3) times per year
 Required LLD: 0.13 pCi/g for Cs-134, Co-58,60 and Mn-54; 0.15 pCi/g for Cs-137 and 0.26 pCi/g for all other gamma emitters
 Units: 10^{-2} pCi/g wet weight

Sample Description and Concentration			
<u>BD-07 Kankakee River, Upstream</u>			
Date Collected	05-09-95	05-09-95	05-09-95
Lab Code	BDF-4288,9	BDF-4290	BDF-4291
Type	Carp	Quillback	Golden Redhorse
Mn-54	0.1±0.5;0.5	0.1±0.7;0.7	0.1±0.6;0.6
Fe-59	0.4±1.2;1.2	-1.9±2.2;2.2	0.5±2.1;2.1
Co-58	0.1±0.5;0.5	0.0±0.8;0.8	0.1±0.7;0.7
Co-60	0.2±0.7;0.7	-0.3±1.0;1.0	0.3±0.8;0.8
Zn-65	-0.3±1.2;1.2	-0.3±1.9;1.9	0.5±1.5;1.5
Zr-Nb-95	0.2±1.0;1.0	0.5±1.5;1.5	0.5±1.4;1.4
Cs-134	0.5±0.5;0.5	0.0±0.8;0.8	0.4±0.7;0.7
Cs-137	0.1±0.5;0.5	0.4±0.7;0.7	-0.1±0.7;0.7
Ba-La-140	-0.9±1.5;1.5	0.2±2.2;2.2	-2.4±2.6;2.7
Date Collected	05-09-95	05-09-95	07-05-95
Lab Code	BDF-4292	BDF-4293	BDF-7355
Type	Silver Redhorse	Small Mouth Bass	Silver Redhorse
Mn-54	0.4±0.7;0.7	-0.1±0.8;0.8	-0.5±0.6;0.6
Fe-59	-0.6±2.3;2.3	1.0±2.3;2.3	-0.1±1.7;1.7
Co-58	-0.3±0.9;0.9	0.2±1.0;1.0	0.0±0.7;0.7
Co-60	0.2±1.1;1.1	0.5±1.0;1.0	0.3±0.6;0.6
Zn-65	-0.1±1.9;1.9	1.1±2.1;2.1	-0.6±1.4;1.4
Zr-Nb-95	-1.2±1.7;1.7	-1.2±1.8;1.8	-0.1±1.3;1.3
Cs-134	-0.2±0.8;0.8	0.2±0.9;0.9	-0.1±0.6;0.6
Cs-137	0.0±0.8;0.8	0.1±0.8;0.8	0.2±0.6;0.6
Ba-La-140	-0.8±2.0;2.0	-0.7±2.5;2.5	2.1±1.5;1.6

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Table 4. Fish, Edible Portions
 Collection: Three (3) times per year
 Required LLD: 0.13 pCi/g for Cs-134, Co-58,60 and Mn-54; 0.15 pCi/g for Cs-137 and 0.26 pCi/g for all other gamma emitters
 Units: 10^{-2} pCi/g wet weight

Sample Description and Concentration

BD-07 Kankakee River, Upstream

Date Collected	07-05-95	07-05-95	07-05-95
Lab Code	BDF-7356	BDF-7357	BDF-7358
Type	Shorthead Redhorse	Small Mouth Bass	Golden Redhorse
Mn-54	0.3±0.6;0.6	0.0±0.7;0.7	0.4±1.0;1.0
Fe-59	1.6±1.9;1.9	-0.2±2.4;2.4	-1.4±3.7;3.7
Co-58	0.0±0.8;0.8	0.0±0.9;0.9	0.3±1.1;1.1
Co-60	0.3±0.8;0.8	-0.2±0.8;0.8	0.3±1.1;1.1
Zn-65	-2.3±1.6;1.6	-0.3±1.5;1.5	1.6±2.6;2.6
Zr-Nb-95	0.3±1.7;1.7	1.4±1.6;1.6	-0.2±2.3;2.3
Cs-134	-0.3±0.7;0.7	0.4±0.6;0.6	0.2±0.9;0.9
Cs-137	0.6±0.7;0.7	0.3±0.6;0.6	0.3±0.9;0.9
Ba-La-140	1.4±1.9;1.9	-5.6±6.9;7.0	-6.2±8.6;8.7
Date Collected	07-05-95	10-03-95	10-03-95
Lab Code	BDF-7359	BDF-10491,2	BDF-10493
Type	Quillback	Small Mouth Bass	Norther Hogsucker
Mn-54	-0.2±1.0;1.0	0.0±0.5;0.5	0.5±0.8;0.8
Fe-59	-3.0±4.7;4.7	-0.5±1.4;1.4	0.9±1.9;1.9
Co-58	0.7±1.7;1.7	-0.1±0.6;0.6	-0.6±0.9;0.9
Co-60	0.1±1.6;1.6	-0.2±0.7;0.7	0.5±0.9;0.9
Zn-65	-1.7±2.4;2.4	-1.1±1.4;1.4	-0.1±1.8;1.8
Zr-Nb-95	-1.7±3.2;3.2	-1.0±1.0;1.0	1.0±1.5;1.5
Cs-134	0.3±0.9;0.9	0.4±0.5;0.5	0.6±0.9;0.9
Cs-137	-0.4±1.3;1.3	-0.3±0.6;0.6	0.3±0.8;0.8
Ba-La-140	-6.0±13.9;13.9	-0.4±1.2;1.2	-0.9±1.6;1.6

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Table 4. Fish, Edible Portions
 Collection: Three (3) times per year
 Required LLD: 0.13 pCi/g for Cs-134, Co-58,60 and Mn-54; 0.15 pCi/g for Cs-137 and 0.26 pCi/g for all other gamma emitters
 Units: 10^{-2} pCi/g wet weight

Sample Description and Concentration

BD-07 Kankakee River, Upstream

Date Collected	10-03-95	10-03-95	10-03-95
Lab Code	BDF-10494	BDF-10495	BDF-10496
Type	Silver Redhorse	Golden Redhorse	Channel Catfish
Mn-54	-0.3±0.8;0.8	-0.2±0.8;0.8	0.4±1.7;1.7
Fe-59	0.4±2.7;2.7	0.1±2.3;2.3	-2.7±4.2;4.3
Co-58	0.1±1.0;1.0	-0.2±0.9;0.9	-1.2±2.1;2.1
Co-60	0.1±1.0;1.0	0.7±1.1;1.1	-0.3±2.4;2.4
Zn-65	-0.9±2.1;2.1	-0.6±1.9;1.9	0.8±4.0;4.0
Zr-Nb-95	0.6±1.6;1.6	0.1±1.3;1.3	0.3±3.1;3.1
Cs-134	-0.6±0.9;0.9	0.3±0.9;0.9	-1.0±1.8;1.8
Cs-137	-0.2±0.9;0.9	0.4±0.8;0.8	0.1±1.7;1.7
Ba-La-140	-0.4±2.3;2.3	0.0±0.9;0.9	0.2±3.4;3.4

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Table 4. Fish, Edible Portions
 Collection: Three (3) times per year
 Required LLD: 0.13 pCi/g for Cs-134, Co-58,60 and Mn-54; 0.15 pCi/g for Cs-137 and 0.26 pCi/g for all other gamma emitters
 Units: 10^{-2} pCi/g wet weight

Sample Description and Concentration

BD-10 Kankakee River, Downstream

Date Collected	05-09-95	05-09-95	05-09-95
Lab Code	BDF-4299	BDF-4300	BDF-4301
Type	Carp	Quillback	Silver Redhorse
Mn-54	-0.1±0.8;0.8	-0.2±0.8;0.8	0.1±0.5;0.5
Fe-59	-1.5±3.1;3.1	2.2±2.1;2.1	0.3±1.5;1.5
Co-58	-0.4±1.0;1.0	1.2±0.8;0.8	-0.2±0.6;0.6
Co-60	0.7±1.2;1.2	-0.6±1.0;1.0	-0.1±0.6;0.6
Zn-65	1.2±2.4;2.4	0.2±1.9;1.9	0.6±1.2;1.2
Zr-Nb-95	0.6±1.7;1.7	-0.4±1.4;1.4	0.4±1.1;1.1
Cs-134	-0.4±1.0;1.0	0.2±0.8;0.8	0.2±0.5;0.5
Cs-137	0.8±0.9;0.9	0.3±0.8;0.8	0.1±0.6;0.6
Ba-La-140	-1.5±3.6;13.6	-1.8±1.2;1.2	-2.2±2.3;2.3
Date Collected	05-09-95	05-09-95	07-05-95
Lab Code	BDF-4302	BDF-4303	BDF-7366,7
Type	Shorthead Redhorse	Small Mouth Bass	Carp
Mn-54	-0.4±1.1;1.1	0.3±1.0;1.0	-0.3±0.7;0.7
Fe-59	-1.3±2.8;2.8	0.2±2.0;2.0	1.7±3.1;3.1
Co-58	-0.6±1.0;1.0	-0.6±1.1;1.1	-0.4±0.9;0.9
Co-60	-0.7±1.4;1.4	-0.7±1.4;1.4	0.8±0.9;0.9
Zn-65	-1.5±2.4;2.4	0.4±2.2;2.2	2.0±2.0;2.0
Zr-Nb-95	0.1±1.7;1.7	0.4±2.0;2.0	0.5±1.9;1.9
Cs-134	0.2±1.1;1.1	-0.2±1.2;1.2	0.2±0.8;0.8
Cs-137	-0.6±1.2;1.2	1.1±1.3;1.3	0.7±0.8;0.8
Ba-La-140	0.0±1.8;1.8	-0.8±1.6;1.6	3.0±7.3;7.3

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Table 4. Fish, Edible Portions
 Collection: Three (3) times per year
 Required LLD: 0.13 pCi/g for Cs-134, Co-58,60 and Mn-54; 0.15 pCi/g for Cs-137 and 0.26 pCi/g for all other gamma emitters
 Units: 10^{-2} pCi/g wet weight

Sample Description and Concentration			
<u>BD-10 Kankakee River, Downstream</u>			
Date Collected	07-05-95	07-05-95	07-05-95
Lab Code	BDF-7368	BDF-7369	BDF-7370
Type	Silver Redhorse	Channel Catfish	Golden Redhorse
Mn-54	0.0±0.6;0.6	-0.1±0.7;0.7	-0.1±0.8;0.8
Fe-59	-1.5±2.4;2.4	1.5±2.5;2.5	-1.2±3.0;3.0
Co-58	-0.1±0.8;0.8	0.5±0.9;0.9	0.7±1.1;1.1
Co-60	0.0±0.8;0.8	0.3±1.1;1.1	-0.3±1.0;1.0
Zn-65	-0.7±1.5;1.5	-0.7±2.1;2.1	-1.2±2.1;2.1
Zr-Nb-95	0.5±1.2;1.2	0.6±1.6;1.6	-0.9±2.0;2.0
Cs-134	0.6±0.7;0.7	-0.6±0.7;0.7	-0.1±0.8;0.8
Cs-137	0.1±0.6;0.6	-0.7±0.8;0.8	0.1±0.7;0.7
Ba-La-140	-0.8±4.2;4.2	0.3±3.2;3.2	-2.4±7.1;7.1
Date Collected	07-05-95	07-05-95	10-03-95
Lab Code	BDF-7371	BDF-7372	BDF-10501
Type	Quillback	Fresh Water Drum	Carp
Mn-54	0.1±0.7;0.7	0.8±0.9;1.0	-0.5±0.7;0.7
Fe-59	1.3±2.9;2.9	3.4±3.0;3.1	0.6±1.9;1.9
Co-58	-0.7±1.0;1.0	0.4±0.9;0.9	0.3±0.7;0.7
Co-60	-0.4±0.8;0.8	0.7±0.9;0.9	-0.6±1.0;1.0
Zn-65	-0.3±2.0;2.0	-1.7±2.1;2.1	-0.2±2.0;2.0
Zr-Nb-95	0.1±1.8;1.8	0.9±1.8;1.8	0.3±1.4;1.4
Cs-134	-0.1±0.8;0.8	0.0±0.7;0.7	0.5±0.8;0.8
Cs-137	1.0±0.7;0.7	0.5±0.7;0.7	0.6±0.7;0.7
Ba-La-140	-5.3±8.9;9.0	-23.9±9.6;10.1	-1.0±1.8;1.8

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Table 4. Fish, Edible Portions
 Collection: Three (3) times per year
 Required LLD: 0.13 pCi/g for Cs-134, Co-58,60 and Mn-54; 0.15 pCi/g for Cs-137 and 0.26 pCi/g for all other gamma emitters
 Units: 10^{-2} pCi/g wet weight

Sample Description and Concentration

BD-10 Kankakee River, Downstream

Date Collected	10-03-95	10-03-95	10-03-95
Lab Code	BDF-10502	BDF-10503	BDF-10504
Type	Shorthead Redhorse	Small Mouth Bass	Small Mouth Buffalo
Mn-54	0.5±0.9;0.9	-0.6±0.8;0.8	0.9±0.6;0.6
Fe-59	0.1±2.9;2.9	-0.4±2.3;2.3	0.7±1.4;1.4
Co-58	-0.3±1.0;1.0	-0.1±0.8;0.8	2.0±0.8;0.9
Co-60	1.4±1.4;1.4	1.2±1.2;1.2	1.2±0.8;0.8
Zn-65	-2.5±2.4;2.4	-3.1±2.2;2.2	-0.3±1.5;1.5
Zr-Nb-95	-0.8±1.9;1.9	0.7±1.6;1.6	0.1±1.1;1.1
Cs-134	-0.2±1.1;1.1	1.1±1.0;1.0	0.6±0.7;0.7
Cs-137	0.4±1.1;1.1	1.7±1.0;1.0	1.9±0.7;0.7
Ba-La-140	-0.8±2.6;2.6	-1.4±0.2;0.3	-0.2±0.7;0.7

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Table 4. Fish, Edible Portions
 Collection: Three (3) times per year
 Required LLD: 0.13 pCi/g for Cs-134, Co-58,60 and Mn-54; 0.15 pCi/g for Cs-137 and 0.26 pCi/g for all other gamma emitters
 Units: 10^{-2} pCi/g wet weight

Sample Description and Concentration			
BDSP-28 Kankakee River, Discharge			
Date Collected	05-09-95	05-09-95	05-09-95
Lab Code	BDF-4294	BDF-4295	BDF-4296
Type	Carp	Quillback	Large Mouth Bass
Mn-54	-0.6±0.9;0.9	0.4±0.4;0.4	-0.3±0.8;0.8
Fe-59	1.1±2.7;2.7	0.4±1.2;1.2	-1.0±2.8;2.8
Co-58	0.7±1.1;1.1	0.3±0.5;0.5	0.7±1.1;1.1
Co-60	1.2±1.2;1.2	0.5±0.5;0.5	0.4±1.2;1.2
Zn-65	0.6±2.7;2.7	0.1±0.8;0.8	-0.1±2.2;2.2
Zr-Nb-95	-0.2±1.9;1.9	0.3±0.8;0.8	0.1±1.9;1.9
Cs-134	0.6±1.0;1.0	0.0±0.5;0.5	-0.1±0.9;0.9
Cs-137	0.0±0.9;0.9	0.4±0.4;0.4	0.0±0.8;0.8
Ba-La-140	-1.3±2.7;2.7	1.2±0.8;0.8	0.9±4.6;4.6
Date Collected	05-09-95	05-09-95	07-05-95
Lab Code	BDF-4297	BDF-4298	BDF-7360
Type	Small Mouth Bass	Northern Pike	River Carpsucker
Mn-54	0.9±1.3;1.3	-0.3±0.6;0.6	0.3±0.5;0.5
Fe-59	0.6±4.0;4.0	-0.4±1.5;1.5	-1.8±2.2;2.2
Co-58	0.9±1.5;1.5	1.5±0.8;0.8	2.3±1.0;1.0
Co-60	0.7±1.4;1.4	0.3±0.7;0.7	0.2±0.8;0.8
Zn-65	0.2±3.6;3.6	0.6±1.3;1.3	1.3±1.3;1.3
Zr-Nb-95	2.7±3.2;3.2	0.1±1.2;1.2	0.2±1.2;1.2
Cs-134	0.5±1.4;1.4	0.3±0.7;0.7	0.3±0.6;0.6
Cs-137	1.3±1.5;1.5	1.1±0.7;0.7	1.1±0.7;0.7
Ba-La-140	3.2±7.8;7.8	0.0±1.5;1.5	-5.2±3.9;4.0

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Table 4. Fish, Edible Portions
 Collection: Three (3) times per year
 Required LLD: 0.13 pCi/g for Cs-134, Co-58,60 and Mn-54; 0.15 pCi/g for Cs-137 and 0.26 pCi/g for all other gamma emitters
 Units: 10^{-2} pCi/g wet weight

Sample Description and Concentration

BDSP-28 Kankakee River, Discharge

Date Collected	07-05-95	07-05-95	07-05-95
Lab Code	BDF-7361	BDF-7362	BDF-7363
Type	Quillback	Large Mouth Bass	Channel Catfish
Mn-54	0.2±0.7;0.7	0.1±1.3;1.3	0.0±0.7;0.7
Fe-59	-1.0±2.1;2.1	1.1±5.1;5.1	-2.6±3.0;3.0
Co-58	12.2±2.7;3.2	3.1±2.2;2.2	-0.2±1.0;1.0
Co-60	1.6±1.3;1.3	0.3±1.5;1.5	0.7±0.8;0.8
Zn-65	1.8±2.3;2.3	-2.8±3.5;3.5	-0.2±1.8;1.8
Zr-Nb-95	0.4±1.7;1.7	0.3±2.9;2.9	0.4±2.0;2.0
Cs-134	1.0±1.1;1.1	1.6±1.5;1.5	-0.1±0.8;0.8
Cs-137	3.5±1.4;1.5	2.4±1.3;1.4	0.7±0.8;0.8
Ba-La-140	-1.9±3.0;3.0	7.8±10.5;10.6	-1.0±5.0;5.0
Date Collected	07-05-95	07-05-95	10-03-95
Lab Code	BDF-7364	BDF-7365	BDF-10497
Type	Carp	Small Mouth Bass	Golden Redhorse
Mn-54	-0.2±1.1;1.1	1.1±2.5;2.5	0.3±0.9;0.9
Fe-59	1.8±3.7;3.7	-4.8±7.7;7.7	0.0±2.6;2.6
Co-58	23.9±5.0;5.9	2.3±3.0;3.0	0.5±1.0;1.0
Co-60	1.3±1.6;1.6	0.9±2.1;2.1	0.1±1.2;1.2
Zn-65	-0.4±2.8;2.8	-0.3±5.0;5.0	-0.5±2.2;2.2
Zr-Nb-95	-0.7±3.0;3.0	4.8±5.4;5.5	-0.9±1.4;1.4
Cs-134	0.1±1.3;1.3	-1.0±2.3;2.3	0.3±1.2;1.2
Cs-137	1.2±1.2;1.2	0.9±2.2;2.2	0.6±0.8;0.8
Ba-La-140	-0.3±14.4;14.4	2.3±27.7;27.7	0.8±1.7;1.7

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Table 4. Fish, Edible Portions
 Collection: Three (3) times per year
 Required LLD: 0.13 pCi/g for Cs-134, Co-58,60 and Mn-54; 0.15 pCi/g for Cs-137 and 0.26 pCi/g for all other gamma emitters
 Units: 10^{-2} pCi/g wet weight

Sample Description and Concentration

BDSP-28 Kankakee River, Discharge

Date Collected	10-03-95	10-03-95	10-03-95
Lab Code	BDF-10498	BDF-10499	BDF-10500
Type	Quillback	Small Mouth Bass	Northern Hogsucker
Mn-54	0.0±0.7;0.7	0.2±0.7;0.7	0.2±1.5;1.5
Fe-59	-1.7±1.7;1.7	-0.7±1.3;1.3	1.8±3.5;3.5
Co-58	0.9±0.9;0.9	0.7±0.8;0.8	-1.1±1.6;1.6
Co-60	0.6±1.0;1.0	0.5±0.9;0.9	-0.5±1.4;1.4
Zn-65	-0.4±1.6;1.6	-2.0±1.6;1.6	-2.1±3.3;3.3
Zr-Nb-95	0.0±1.3;1.3	-0.1±1.1;1.1	-1.9±3.1;3.1
Cs-134	-0.4±0.7;0.7	0.7±0.8;0.8	-0.1±1.8;1.8
Cs-137	0.3±0.9;0.9	0.8±0.8;0.8	0.7±1.6;1.6
Ba-La-140	1.3±0.9;0.9	0.3±0.9;0.9	-2.9±2.4;2.5

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Table 5. Bottom Sediments
 Collection: Semiannually
 Required LLD: 0.15 pCi/g for Cs-134 and 0.18 pCi/g for Cs-137 and
 0.20 pCi/g for all other gamma emitters
 Units: 10^{-2} pCi/g dry weight

Sample Description and Concentration

BD-10 Kankakee River, Downstream

Date Collected	06-16-95	10-13-95
Lab Code	BDBS-6486	BDBS-10784
Mn-54	0.5±1.6;1.6	0.0±1.3;1.3
Fe-59	-0.1±6.1;6.1	-0.6±3.0;3.0
Co-58	-0.2±2.0;2.0	5.4±2.3;2.4
Co-60	-0.7±2.1;2.1	1.2±1.7;1.7
Zn-65	1.1±4.2;4.2	1.1±2.8;2.8
Zr-Nb-95	0.7±3.9;3.9	1.7±2.2;2.2
Cs-134	2.4±1.8;1.8	2.1±1.3;1.4
Cs-137	12.4±3.6;4.0	12.5±3.1;3.6
Ba-La-140	-26.0;13.5;14.0	-3.5±2.6;2.6

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Table 6. Vegetation Collection: Annually
 Required LLD: 0.06 pCi/g for Cs-134 and I-131; 0.08 pCi/g for Cs-137
 Units: 10⁻² pCi/g wet weight

Sample Description and Concentration				
<u>BD-14 Pinnick Farm</u>				
Date Collected	08-25-95	08-25-95	08-25-95	08-25-95
Lab Code	BDVE-9066	BDVE-9067	BDVE-9068	BDVE-9069
Type	Squash	Carrots	Lettuce	Cabbage
I-131 ^a	-	-	1.0±1.3;1.3	-0.1±1.0;1.0
Mn-54	0.0±0.5;0.5	0.0±0.7;0.7	0.6±0.7;0.7	-0.3±0.9;0.9
Fe-59	-0.1±1.3;1.3	0.4±1.5;1.5	1.0±2.3;2.3	0.3±1.7;1.7
Co-58	0.1±0.5;0.5	0.1±0.7;0.7	-0.1±0.8;0.8	0.7±0.6;0.6
Co-60	0.3±0.7;0.7	0.3±1.0;1.0	0.7±1.1;1.1	-0.4±1.4;1.4
Zn-65	-0.8±1.3;1.3	-0.2±1.6;1.6	-1.8±2.4;2.4	-0.2±1.9;1.9
Zr-Nb-95	0.0±0.8;0.8	0.3±1.3;1.3	-0.5±1.5;1.5	-0.5±1.5;1.5
Cs-134	0.2±0.6;0.6	0.3±0.8;0.8	0.1±1.0;1.0	-0.3±0.8;0.8
Cs-137	0.4±0.6;0.6	0.5±0.7;0.7	0.3±1.0;1.0	0.0±0.8;0.8
Ba-La-140	-0.6±0.5;0.5	0.1±0.8;0.8	0.0±0.9;0.9	1.1±0.8;0.8
<u>BD-15 Girot Farm</u>				
Date Collected	08-25-95	08-25-95	08-25-95	08-25-95
Lab Code	BDVE-9070	BDVE-9071	BDVE-9072	BDVE-9073
Type	Cabbage	Zucchini	Onions	Squash
I-131 ^a	-0.5±0.9;0.9	-	-	-
Mn-54	-0.2±0.7;0.7	0.2±0.6;0.6	0.3±0.7;0.7	0.1±0.5;0.5
Fe-59	0.4±1.4;1.4	-0.7±1.3;1.3	-0.1±1.2;1.2	0.5±1.1;1.1
Co-58	-0.5±0.6;0.6	0.1±0.5;0.5	-0.1±0.6;0.6	-0.1±0.4;0.4
Co-60	-0.2±1.0;1.0	0.6±0.9;0.9	0.1±0.8;0.8	0.1±0.6;0.6
Zn-65	-0.4±1.7;1.7	-0.6±1.6;1.6	0.1±1.6;1.6	-0.3±1.0;1.0
Zr-Nb-95	0.9±1.1;1.1	0.2±1.0;1.0	0.8±1.1;1.1	0.0±0.7;0.7
Cs-134	-0.2±0.9;0.9	0.0±0.6;0.6	-0.4±0.8;0.8	0.2±0.5;0.5
Cs-137	-0.4±0.8;0.8	0.0±0.6;0.6	0.5±0.7;0.7	0.1±0.4;0.4
Ba-La-140	0.5±1.0;1.0	0.1±0.6;0.6	0.1±0.5;0.5	-0.4±0.5;0.5

^a Analysis required for green leafy vegetation.

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Table 6. Vegetation
 Collection: Annually
 Required LLD: 0.06 pCi/g for Cs-134 and I-131; 0.08 pCi/g for Cs-137
 Units: 10^{-2} pCi/g wet weight

Sample Description and Concentration

<u>BD-16 Clark Farm</u>				
Date Collected	08-25-95	08-25-95	08-25-95	08-25-95
Lab Code	BDVE-8849	BDVE-8850	BDVE-8851	BDVE-8852
Type	Corn	Zucchini	Potatoes	Cabbage
I-131 ^a	-	-	-	0.1±0.7;0.7
Mn-54	-0.1±0.4;0.4	0.0±0.3;0.3	0.3±0.7;0.7	0.2±0.5;0.5
Fe-59	0.3±1.2;1.2	0.5±0.8;0.8	-0.5±1.9;1.9	-0.3±1.1;1.1
Co-58	0.0±0.5;0.5	-0.2±0.4;0.4	-0.1±0.6;0.6	0.0±0.5;0.5
Co-60	0.1±0.6;0.6	-0.2±0.5;0.5	0.7±1.2;1.2	-0.4±0.6;0.6
Zn-65	0.2±1.1;1.1	-0.2±0.7;0.7	-0.7±2.3;2.3	0.1±1.1;1.1
Zr-Nb-95	0.1±0.8;0.8	-0.1±0.7;0.7	0.4±1.3;1.3	-0.1±0.8;0.8
Cs-134	0.1±0.5;0.5	0.2±0.4;0.4	0.6±0.9;0.9	-0.2±0.6;0.6
Cs-137	0.3±0.5;0.5	0.2±0.4;0.4	-0.4±0.7;0.7	-0.3±0.5;0.5
Ba-La-140	0.2±0.6;0.6	-0.3±0.4;0.4	0.5±0.6;0.6	-0.2±0.6;0.6

^a Analysis required for green leafy vegetation.

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Table 7. Surface Water
 Collection: Monthly composites of weekly collections
 Required LLD: 15 pCi/L for Cs-134, Co-58,60, Mn-54, and Ba-La-140;
 18 pCi/L for Cs-137; 30.0 pCi/L for all other gamma emitters
 Units: pCi/L

Sample Description and Concentration

BD-07 (C) Kankakee River, Upstream

1995 Collection Period	January	February	March
Lab Code	BDSW-0831	BDSW-1635	BDSW-2531
Mn-54	-0.3±3.2;3.2	-0.6±2.9;2.9	0.1±1.9;1.9
Fe-59	3.2±5.2;5.2	3.0±6.1;6.1	-1.0±3.8;3.8
Co-58	1.3±3.0;3.0	0.2±3.1;3.1	0.7±1.9;1.9
Co-60	-0.9±2.5;2.5	2.8±2.8;2.8	-0.8±2.0;2.0
Zn-65	-5.5±4.3;4.3	-4.9±5.6;5.6	0.8±4.2;4.2
Zr-Nb-95	4.5±5.7;5.7	1.4±4.5;4.5	-0.5±3.5;3.5
Cs-134	1.0±3.6;3.6	-1.5±2.9;2.9	-0.4±2.3;2.3
Cs-137	-0.1±2.6;2.6	-0.4±3.0;3.0	-0.7±2.2;2.2
Ba-La-140	0.3±5.2;5.2	-6.7±8.2;8.2	-0.3±4.0;4.0
1995 Collection Period	April	May	June
Lab Code	BDSW-3690	BDSW-6012	BDSW-7547
Mn-54	-1.1±1.4;1.4	0.1±2.0;2.0	-0.2±1.8;1.8
Fe-59	-0.1±3.3;3.3	1.0±5.4;5.4	-2.3±4.6;4.6
Co-58	0.4±1.6;1.6	-1.9±2.5;2.5	-0.2±1.9;1.9
Co-60	-0.4±1.6;1.6	1.4±2.2;2.2	1.5±1.9;1.9
Zn-65	1.1±2.7;2.7	1.7±4.8;4.8	-1.3±3.0;3.0
Zr-Nb-95	0.2±2.9;2.9	-0.2±4.1;4.1	-2.4±3.2;3.2
Cs-134	0.1±1.6;1.6	-1.5±2.2;2.2	1.1±1.9;1.9
Cs-137	0.7±1.8;1.8	0.2±2.6;2.6	1.4±1.8;1.8
Ba-La-140	0.4±3.4;3.4	3.5±7.1;7.1	-0.5±3.7;3.7

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Table 7. Surface Water
 Collection: Monthly composites of weekly collections
 Required LLD: 15 pCi/L for Cs-134, Co-58,60, Mn-54, and Ba-La-140;
 18 pCi/L for Cs-137; 30.0 pCi/L for all other gamma emitters
 Units: pCi/L

Sample Description and Concentration

BD-07 (C) Kankakee River, Upstream^a

1995 Collection Period	July	August	September
Lab Code	BDSW-8620	BDSW-9176	BDSW-10448
Mn-54	0.6±2.5;2.5	0.5±1.6;1.6	0.2±2.0;2.0
Fe-59	-0.3±6.8;6.8	0.2±1.3;1.3	-2.4±6.5;6.5
Co-58	-1.2±2.7;2.7	1.3±2.3;2.3	0.1±2.8;2.8
Co-60	0.9±3.1;3.1	-0.7±2.0;2.0	0.3±3.1;3.1
Zn-65	-3.8±5.2;5.2	-0.2±4.0;4.0	-2.9±5.1;5.1
Zr-Nb-95	-0.7±5.0;5.0	-1.4±3.5;3.5	1.1±5.8;5.8
Cs-134	0.6±2.7;2.7	0.4±2.1;2.1	0.4±2.7;2.7
Cs-137	-1.1±2.3;2.3	0.8±2.2;2.2	1.7±2.8;2.8
Ba-La-140	-3.9±6.1;6.2	-3.5±3.2;3.2	-5.0±9.0;9.0
1995 Collection Period	October	November ^b	December
Lab Code	BDSW-11567	BDSW-11994	
Mn-54	-1.4±2.4;2.4	1.2±2.2;2.2	
Fe-59	-2.5±5.3;5.3	2.2±7.0;7.0	
Co-58	-0.5±2.6;2.6	-1.9±2.8;2.8	
Co-60	0.4±3.2;3.2	-1.2±2.7;2.7	
Zn-65	-5.3±4.7;4.8	-1.7±4.3;4.3	
Zr-Nb-95	1.2±4.9;4.9	-1.1±5.5;5.5	
Cs-134	0.8±3.0;3.0	0.5±2.5;2.5	
Cs-137	1.2±2.9;2.9	0.5±2.4;2.4	
Ba-La-140	4.2±6.1;6.1	5.4±12.6;12.6	

^a Sampling location deleted from the program in accordance with UREMP. UREMP was implemented on 11-17-95.

^b Results reflect two weekly collections during the month.

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Table 7. Surface Water
 Collection: Monthly composites of weekly collections
 Required LLD: 15 pCi/L for Cs-134, Co-58,60, Mn-54, and Ba-La-140;
 18 pCi/L for Cs-137; 30.0 pCi/L for all other gamma emitters
 Units: pCi/L

Sample Description and Concentration

BD-10 Kankakee River, Downstream

1995 Collection Period	January	February	March
Lab Code	BDSW-0832	BDSW-1636	BDSW-2532
Mn-54	-0.7±3.0;3.0	-0.8±2.5;2.5	-1.8±2.6;2.6
Fe-59	-0.8±5.8;5.8	1.9±6.6;6.6	0.3±5.5;5.5
Co-58	-0.7±2.9;2.9	-0.4±2.8;2.8	-0.4±3.0;3.0
Co-60	3.6±2.8;2.9	0.9±2.6;2.6	2.0±2.5;2.5
Zn-65	-6.3±6.2;6.3	-1.3±5.7;5.7	1.4±3.9;3.9
Zr-Nb-95	0.4±5.0;5.0	1.0±4.5;4.5	-1.9±4.9;4.9
Cs-134	1.2±3.1;3.1	1.2±3.0;3.0	0.5±3.4;3.4
Cs-137	1.3±3.2;3.2	1.2±2.8;2.8	2.3±2.4;2.4
Ba-La-140	3.0±6.3;6.3	-1.5±6.6;6.6	-1.1±4.5;4.5

1995 Collection Period	April	May	June
Lab Code	BDSW-3691	BDSW-6013,4	BDSW-7548
Mn-54	-0.4±2.6;2.6	-0.6±1.8;1.8	-1.2±2.8;2.8
Fe-59	0.7±5.7;5.7	-4.0±4.3;4.3	-1.2±5.5;5.5
Co-58	-0.3±2.7;2.7	0.4±1.6;1.6	1.6±2.8;2.8
Co-60	0.3±3.0;3.0	1.2±7.0;7.0	0.9±2.9;2.9
Zn-65	-3.3±4.8;4.8	-3.2±3.6;3.7	3.1±3.3;3.3
Zr-Nb-95	-0.7±4.2;4.2	-2.4±3.3;3.3	1.2±5.2;5.2
Cs-134	0.7±2.4;2.4	1.5±1.9;1.9	-0.7±2.8;2.8
Cs-137	0.6±2.7;2.7	-0.1±1.6;1.6	1.9±2.8;2.8
Ba-La-140	-0.4±5.2;5.2	-1.4±6.1;6.1	-1.5±6.9;6.9

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Table 7. Surface Water
 Collection: Monthly composites of weekly collections
 Required LLD: 15 pCi/L for Cs-134, Co-58,60, Mn-54, and Ba-La-140;
 18 pCi/L for Cs-137; 30.0 pCi/L for all other gamma emitters
 Units: pCi/L

Sample Description and Concentration

BD-10 Kankakee River, Downstream

1995 Collection Period	July	August	September
Lab Code	BDSW-8621	BDSW-9177	BDSW-10449
Mn-54	-0.2±1.7;1.7	1.5±1.5;1.6	-1.0±2.2;2.2
Fe-59	1.3±4.5;4.5	1.3±4.5;4.5	-0.8±4.4;4.4
Co-58	0.4±2.0;2.0	2.2±2.5;2.5	1.3±2.3;2.3
Co-60	1.5±1.9;1.9	0.5±2.3;2.3	-0.3±2.5;2.5
Zn-65	-2.4±3.6;3.6	-1.6±2.9;2.9	-1.1±4.3;4.3
Zr-Nb-95	1.8±3.8;3.8	-3.3±3.7;3.7	-0.5±3.9;3.9
Cs-134	1.7±1.9;1.9	0.1±1.8;1.8	-0.2±2.5;2.5
Cs-137	1.4±2.1;2.1	0.9±1.9;1.9	-0.3±2.2;2.2
Ba-La-140	1.6±5.1;5.1	-5.7±6.0;6.0	-0.1±7.4;7.4
1995 Collection Period	October	November	December
Lab Code	BDSW-11568	BDSW-12397	BDSW-12957
Gross Beta ^a		2.6±1.5;1.5	4.4±1.5;1.6
Mn-54	1.9±1.7;1.8	-0.5±2.9;2.9	0.8±2.8;2.8
Fe-59	0.5±4.0;4.0	-1.7±7.0;7.0	0.7±6.2;6.2
Co-58	0.1±2.0;2.0	4.1±3.8;3.8	-0.3±3.2;3.2
Co-60	0.8±1.9;1.9	-0.6±3.4;3.4	2.9±2.0;2.0
Zn-65	2.1±3.3;3.3	-2.5±5.9;5.9	2.8±6.5;6.5
Zr-Nb-95	-0.6±3.9;3.9	0.9±6.1;6.1	0.5±4.4;4.4
Cs-134	-1.5±2.1;2.1	1.8±3.3;3.3	-1.1±2.9;2.9
Cs-137	0.3±2.0;2.0	3.4±3.4;3.4	0.9±2.8;2.8
Ba-La-140	-3.0±4.8;4.8	-6.5±13.0;13.0	4.9±4.4;4.4

^a Gross beta analysis required in accordance with UREMP. According to UREMP a monthly composite is analyzed for gross beta. UREMP was implemented on 11-17-95.

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Table 7. Surface Water
 Collection: Monthly composites of weekly collections
 Required LLD: 15 pCi/L for Cs-134, Co-58,60, Mn-54, and Ba-La-140;
 18 pCi/L for Cs-137; 30.0 pCi/L for all other gamma emitters
 Units: pCi/L

Sample Description and Concentration

BD-25 (C) Kankakee River, Upstream

1995 Collection Period	January	February	March
Lab Code	BDSW-0833	BDSW-1637	BDSW-2388
Mn-54	-0.4±3.5;3.5	-0.8±1.5;1.5	0.2±2.0;2.0
Fe-59	4.4±9.8;9.8	-2.3±2.9;2.9	0.2±4.0;4.0
Co-58	-1.2±4.2;4.2	-0.8±1.6;1.6	-1.4±2.2;2.2
Co-60	-0.4±3.6;3.6	-0.1±1.6;1.6	-1.4±2.5;2.5
Zn-65	-2.7±8.4;8.4	-0.4±2.9;2.9	-3.4±3.9;3.9
Zr-Nb-95	0.5±6.6;6.6	1.1±3.0;3.0	-0.4±3.4;3.4
Cs-134	0.3±4.2;4.2	-0.3±1.5;1.5	2.0±2.7;2.7
Cs-137	0.4±3.8;3.8	0.0±1.9;1.9	-0.1±2.5;2.5
Ba-La-140	7.5±5.6;5.7	-2.0±3.9;3.9	-1.5±4.9;4.9
1995 Collection Period	April	May	June
Lab Code	BDSW-3692	BDSW-6015	BDSW-7595
Mn-54	-1.3±2.6;2.6	0.9±2.2;2.2	0.4±1.1;1.1
Fe-59	-3.0±7.0;7.0	-0.2±5.0;5.0	-0.3±2.5;2.5
Co-58	-1.8±2.8;2.8	0.2±2.2;2.2	-1.6±1.2;1.2
Co-60	0.3±3.0;3.0	-0.5±2.2;2.2	0.0±1.2;1.2
Zn-65	1.3±4.9;4.9	-3.4±4.3;4.3	-1.6±2.4;2.4
Zr-Nb-95	2.1±4.7;4.7	0.4±3.8;3.8	-0.5±2.1;2.1
Cs-134	0.3±2.4;2.4	-1.4±2.3;2.3	-0.1±1.3;1.3
Cs-137	0.9±3.4;3.4	1.6±2.4;2.4	0.7±1.3;1.3
Ba-La-140	1.9±4.9;4.9	2.4±5.8;5.8	-3.3±3.0;3.0

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Table 7. Surface Water
 Collection: Monthly composites of weekly collections
 Required LLD: 15 pCi/L for Cs-134, Co-58,60, Mn-54, and Ba-La-140;
 18 pCi/L for Cs-137; 30.0 pCi/L for all other gamma emitters
 Units: pCi/L

Sample Description and Concentration

BD-25 (C) Kankakee River, Upstream

1995 Collection Period	July	August	September
Lab Code	BDSW-8622	BDSW-9178	BDSW-10450
Mn-54	-0.8±2.2;2.2	0.7±2.1;2.1	-0.4±1.8;1.8
Fe-59	-0.4±4.2;4.2	-0.8±4.8;4.8	-3.3±4.7;4.7
Co-58	-0.5±2.0;2.0	-0.8±2.0;2.0	0.1±1.9;1.9
Co-60	1.9±2.1;2.1	-0.1±1.9;1.9	0.7±2.0;2.0
Zn-65	-3.4±3.9;3.9	0.4±4.0;4.0	0.7±3.2;3.2
Zr-Nb-95	-1.2±4.3;4.3	0.6±4.0;4.0	0.3±3.5;3.5
Cs-134	1.6±2.0;2.0	0.7±2.6;2.6	-0.6±2.2;2.2
Cs-137	-0.4±2.1;2.1	0.7±2.3;2.3	0.6±1.9;1.9
Ba-La-140	-3.4±5.0;5.0	0.5±4.7;4.7	-0.6±1.6;1.6
1995 Collection Period	October	November	December
Lab Code	BDSW-11572	BDSW-12398	BDSW-12958
Gross Beta ^a		2.9±1.4;1.5	4.0±0.9;1.1
Mn-54	0.6±2.9;2.9	0.4±3.1;3.1	0.1±2.1;2.1
Fe-59	-2.3±6.3;6.3	0.2±7.5;7.5	-3.0±5.6;5.6
Co-58	1.1±3.0;3.0	-1.4±3.5;3.5	0.9±2.7;2.7
Co-60	-0.3±3.1;3.1	-2.3±2.9;2.9	-0.4±2.9;2.9
Zn-65	-3.4±5.7;5.7	-1.2±6.9;6.9	-2.8±5.3;5.3
Zr-Nb-95	-0.5±4.9;4.9	-0.5±7.0;7.0	-4.1±5.2;5.2
Cs-134	-0.4±2.7;2.7	1.4±3.3;3.3	0.5±2.4;2.4
Cs-137	0.6±2.9;2.9	0.8±3.5;3.5	0.9±2.9;2.9
Ba-La-140	-3.1±6.1;6.1	-0.3±13.2;13.2	1.6±3.6;3.6

^a Gross beta analysis required in accordance with UREMP. According to UREMP a monthly composite is analyzed for gross beta. UREMP was implemented on 11-17-95.

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Table 7. Surface Water
 Collection: Quarterly composites of weekly collections
 Required LLD: 200 pCi/L for H-3
 Units: pCi/L

<u>Sample Description and Concentration</u>		
1995 Composite Period	Lab Code	Tritium
<u>BD-07 (C) Kankakee River, Upstream^a</u>		
1st Quarter	BDSW-2193	101±86;88
2nd Quarter	-7184	123±87;88
3rd Quarter	-10188	91±80;81
4th Quarter	-11835 ^b	91±78;79
<u>BD-10 Kankakee River, Downstream</u>		
1st Quarter	BDSW-2194	233±92;98
2nd Quarter	-7185	474±101;120
3rd Quarter	-10189	1,275±122;212
4th Quarter	-12838	975±112;174
<u>BD-25 (C) Kankakee River, Upstream</u>		
1st Quarter	BDSW-2195	129±88;89
2nd Quarter	-7186	50±80;80
3rd Quarter	-10190	128±81;83
4th Quarter	-12839	87±79;80

^a Sampling location deleted from the program in accordance with UREMP. UREMP was implemented on 11-17-95.

^b Result reflects six weekly collections during the quarter.

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Table 8. Well Water
 Collection: Monthly composites of biweekly collections
 Required LLD: 4.0 pCi/L for Gross Beta; 15 pCi/L for Cs-134, Co-58,60,
 Mn-54, and Ba-La-140; 18 pCi/L for Cs-137; 30.0 pCi/L for
 all other gamma emitters
 Units pCi/L

Sample Description and Concentration			
<u>BD-13 Braidwood City Hall Well</u>			
1995			
Collection Period	January ^a	February	March
Lab Code	BDWW-0835	BDWW-1643	BDWW-2389
Gross Beta	41.2±2.5;6.8	44.1±2.6;7.3	38.7±2.3;6.1
Mn-54	1.6±3.2;3.2	-2.5±4.1;4.1	0.6±2.6;2.6
Fe-59	-1.8±7.9;7.9	-2.7±7.8;7.8	3.4±5.7;5.7
Co-58	-2.0±3.1;3.1	1.4±3.2;3.2	0.4±2.8;2.8
Co-60	1.2±2.5;2.5	3.5±3.5;3.5	-1.1±3.0;3.0
Zn-65	-3.4±7.6;7.6	1.2±8.2;8.2	-0.4±6.1;6.1
Zr-Nb-95	-1.2±6.5;6.5	-0.7±5.9;5.9	1.3±4.6;4.6
Cs-134	1.0±3.6;3.6	2.5±3.7;3.7	1.9±2.9;2.9
Cs-137	-0.9±3.3;3.3	3.2±3.5;3.5	-1.0±2.9;2.9
Ba-La-140	3.9±9.8;9.8	5.5±8.4;8.4	0.5±5.1;5.1
1995			
Collection Period	April	May	June
Lab Code	BDWW-3611	BDWW-6016	BDWW-7597
Gross Beta	11.0±1.9;2.6	38.0±3.3;6.7	42.0±3.5;7.4
Mn-54	0.4±2.7;2.7	-1.1±3.3;3.3	-0.1±1.1;1.1
Fe-59	1.4±3.9;3.9	2.9±7.3;7.3	0.3±2.9;2.9
Co-58	-1.5±2.9;2.9	0.3±3.4;3.4	0.1±1.2;1.2
Co-60	1.2±2.8;2.8	3.7±3.4;3.4	1.0±1.2;1.2
Zn-65	-3.3±4.7;4.7	-2.6±7.4;7.4	-3.0±2.6;2.6
Zr-Nb-95	-1.7±5.2;5.2	-1.4±6.4;6.4	0.1±2.4;2.4
Cs-134	3.0±3.1;3.2	-2.4±3.9;4.0	0.7±1.4;1.4
Cs-137	1.3±3.2;3.2	-0.7±3.7;3.7	-0.4±1.3;1.3
Ba-La-140	-4.1±7.3;7.4	-0.2±11.2;11.2	-0.8±2.7;2.7

^a Sample is being collected at a new pump house as of 01-13-95. The old pump house was demolished.

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Table 8. Well Water
 Collection: Monthly composites of biweekly collections
 Required LLD: 4.0 pCi/L for Gross Beta; 15 pCi/L for Cs-134, Co-58,60, Mn-54, and Ba-La-140; 18 pCi/L for Cs-137; 30.0 pCi/L for all other gamma emitters
 Units pCi/L

Sample Description and Concentration

BD-13 Braidwood City Hall Well^a

1995 Collection Period	July	August	September
Lab Code	BDWW-8700	BDWW-9179	BDWW-10451
Gross Beta	22.6±2.8;4.5	44.8±3.6;7.8	41.6±3.5;7.3
Mn-54	-1.0±2.9;2.9	-0.7±2.9;2.9	-0.5±2.1;2.1
Fe-59	0.4±7.7;7.7	3.5±5.7;5.7	1.8±4.6;4.6
Co-58	1.5±3.1;3.1	-0.3±3.1;3.1	1.2±2.3;2.3
Co-60	-1.1±2.9;2.9	-2.0±3.1;3.1	-1.0±2.0;2.0
Zn-65	-0.9±5.8;5.8	-5.1±4.9;4.9	-0.6±4.0;4.0
Zr-Nb-95	1.4±6.0;6.0	-1.5±5.1;5.1	-1.1±3.5;3.6
Cs-134	0.9±2.7;2.7	-0.4±3.3;3.3	-0.8±2.3;2.3
Cs-137	-1.1±2.8;2.8	0.4±3.2;3.2	0.8±2.2;2.2
Ba-La-140	-9.2±12.9;13.0	4.3±3.8;3.9	-3.7±6.9;7.0
1995 Collection Period	October	November	
Lab Code	BDWW-11574	BDWW-11837, ^b	
Gross Beta	39.2±3.6;7.0	26.8±2.1;4.6	
Mn-54	0.2±2.1;2.1	0.1±1.6;1.6	
Fe-59	-1.5±5.6;5.6	1.6±4.5;4.5	
Co-58	-0.3±2.5;2.5	1.0±2.0;2.0	
Co-60	0.1±2.2;2.2	-0.4±1.8;1.8	
Zn-65	0.4±4.2;4.2	-2.5±3.7;3.7	
Zr-Nb-95	2.6±4.4;4.4	-0.6±3.1;3.1	
Cs-134	0.2±2.9;2.9	0.5±1.8;1.8	
Cs-137	0.2±2.4;2.4	-0.2±1.7;1.7	
Ba-La-140	-3.1±6.6;6.7	0.9±8.3;8.3	

^a Analysis frequency changed in accordance with UREMP. According to UREMP a quarterly sample is analyzed for gamma emitters. UREMP was implemented on 11-17-95.

^b Results reflect one collection during the month.

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Table 8. Well Water
 Collection: Quarterly composites of biweekly collections
 Required LLD: 200 pCi/L for H-3
 Units: pCi/L

<u>Sample Description and Concentration</u>		
1995 Composite Period	Lab Code	Tritium
<u>BD-13 Braidwood City Hall Well^a</u>		
1st Quarter	BDWW-2196	-60±81;81
2nd Quarter	-7183	80±81;82
3rd Quarter	-10191	94±80;81
4th Quarter	-11836 ^b	-2±74;74

^a Analysis frequency changed in accordance with UREMP. According to UREMP a quarterly sample is analyzed for H-3. UREMP was implemented on 11-17-95.

^b Result reflects three collections during the quarter.

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Table 8.	Well Water	
	Collection:	Quarterly collection
	Required LLD:	200pCi/L for H-3; 15 pCi/L for Cs-134, Co-58,60, Mn-54, and Ba-La-140;18 pCi/L for Cs-137; 30.0 pCi/L for all other gamma emitters
	Units	pCi/L

Sample Description and Concentration

	<u>BD-34 Gibson Well^a</u>	<u>BD-35 Joly Well^a</u>
1995		
Collection Period	4th Quarter	4th Quarter
Lab Code	BDWW-11693	BDWW-11694
H-3	606±98;128	9±75;75
Mn-54	1.8±1.7;1.7	-0.5±1.8;1.8
Fe-59	-5.0±8.6;8.6	-1.5±8.8;8.8
Co-58	2.1±2.7;2.7	0.2±3.2;3.2
Co-60	1.6±1.6;1.6	1.3±1.6;1.6
Zn-65	0.5±3.7;3.7	-2.2±4.0;4.0
Zr-Nb-95	-2.6±5.3;5.3	1.4±6.2;6.2
Cs-134	0.6±1.6;1.6	0.3±1.9;1.9
Cs-137	0.6±1.5;1.5	1.9±1.8;1.8
Ba-La-140	7.0±10.5;1.0.5	4.2±11.5;11.5
	<u>BD-36 Hutton Well^a</u>	<u>BD-37 Nurczyk Well^a</u>
1995		
Collection Period	4th Quarter	4th Quarter
Lab Code	BDWW-11695	BDWW-11696
H-3	655±100;134	33±76;76
Mn-54	0.6±2.4;2.4	1.4±3.2;3.2
Fe-59	-0.8±13.6;13.6	-2.3±18.1;18.1
Co-58	4.2±4.5;4.5	2.4±5.5;5.5
Co-60	0.9±2.6;2.6	3.0±3.2;3.2
Zn-65	-5.1±5.8;5.8	-16.8±7.7;7.7
Zr-Nb-95	-1.5±8.6;8.6	8.9±10.1;10.1
Cs-134	-0.4±2.5;2.5	0.8±3.3;3.3
Cs-137	-0.2±2.3;2.3	-0.4±3.0;3.0
Ba-La-140	-1.5±1.6;1.6	-18.1±23.2;23.2

^a Sampling location added to the program in accordance with UREMP. UREMP was implemented on 11-17-95.

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Table 9. Public Water
 Collection: Monthly composites of weekly collections
 Required LLD: 4.0 pCi/L for Gross Beta; 15 pCi/L for Cs-134, Co-58,60, Mn-54, and Ba-La-140; 18 pCi/L for Cs-137; 30.0 pCi/L for all other gamma emitters
 Units: pCi/L

Sample Description and Concentration

BD-22 Wilmington

1995 Collection Period	January	February	March
Lab Code	BDPW-0834	BDPW-1638	BDPW-2390
Gross Beta	3.1±1.2;1.3	1.6±1.2;1.3	3.0±1.0;1.1
Mn-54	-0.8±1.9;1.9	0.5±2.0;2.0	0.2±1.7;1.7
Fe-59	0.3±5.0;5.0	-0.5±4.2;4.2	-1.1±3.4;3.4
Co-58	-0.7±2.2;2.2	0.3±1.8;1.8	0.9±1.5;1.5
Co-60	-0.6±2.5;2.5	0.2±1.8;1.8	2.0±2.0;2.0
Zn-65	-2.0±4.6;4.6	-0.4±4.3;4.3	0.2±3.6;3.6
Zr-Nb-95	-1.0±3.7;3.7	-0.1±3.4;3.4	-0.3±2.8;2.8
Cs-134	1.3±2.2;2.2	0.1±2.0;2.0	1.2±1.8;1.8
Cs-137	-0.7±2.7;2.7	0.5±2.3;2.3	0.7±2.0;2.0
Ba-La-140	2.3±3.6;3.6	0.8±3.8;3.8	0.4±3.4;3.4
1995 Collection Period	April ^a	May	June
Lab Code	BDPW-3612	BDPW-6017	BDPW-7596
Gross Beta	1.7±1.3;1.3	3.2±1.5;1.6	1.1±1.4;1.4
Mn-54	0.1±1.6;1.6	-0.8±1.9;1.9	0.8±1.0;1.0
Fe-59	-0.3±3.7;3.7	0.4±4.5;4.5	0.5±2.6;2.6
Co-58	-1.0±1.9;1.9	0.2±2.0;2.0	-0.2±1.1;1.1
Co-60	-0.1±1.9;1.9	0.3±1.5;1.5	0.6±1.2;1.2
Zn-65	0.2±3.3;3.3	2.1±2.9;2.9	-0.4±2.0;2.0
Zr-Nb-95	-1.7±3.4;3.4	1.0±4.1;4.1	-1.0±1.8;1.8
Cs-134	1.9±2.1;2.1	-0.1±2.1;2.1	-0.5±1.1;1.1
Cs-137	-0.8±1.7;1.7	0.8±2.2;2.2	1.1±1.2;1.2
Ba-La-140	2.8±3.1;3.1	-0.2±4.8;4.8	-0.9±2.6;2.6

^a A compositor was installed and operating at BD-22 as of 04-06-95.

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Table 9. Public Water
 Collection: Monthly composites of weekly collections
 Required LLD: 4.0 pCi/L for Gross Beta; 15 pCi/L for Cs-134, Co-58,60,
 Mn-54, and Ba-La-140; 18 pCi/L for Cs-137; 30.0 pCi/L for
 all other gamma emitters
 Units: pCi/L

Sample Description and Concentration

BD-22 Wilmington

1995 Collection Period	July	August	September
Lab Code	BDPW-8623	BDPW-9180	BDPW-10452
Gross Beta	3.5±1.2;1.4	3.1±1.6;1.7	4.6±1.7;1.8
Mn-54	3.2±2.8;2.9	0.4±2.0;2.0	0.8±3.6;3.6
Fe-59	2.7±7.2;7.2	-1.3±3.6;3.6	-5.0±11.4;11.4
Co-58	2.4±3.5;3.5	0.2±1.5;1.5	2.1±4.3;4.3
Co-60	0.9±2.9;2.9	1.5±1.9;1.9	-0.8±4.2;4.2
Zn-65	-0.3±4.5;4.5	-3.5±3.0;3.1	0.3±9.2;9.2
Zr-Nb-95	1.6±5.5;5.5	0.3±3.8;3.8	1.0±8.3;8.3
Cs-134	0.5±3.1;3.1	0.5±2.3;2.3	-0.2±3.7;3.7
Cs-137	-0.4±2.7;2.7	1.0±2.3;2.3	0.3±4.0;4.0
Ba-La-140	-6.7±7.6;7.7	-3.1±3.9;3.9	-24.9±16.9;17.3
1995 Collection Period	October	November	December
Lab Code	BDPW-11573	BDPW-12399	BDPW-12959
Gross Beta	2.8±1.4;1.5	4.9±1.6;1.8	3.6±0.9;1.1
Mn-54	0.6±1.7;1.7	-0.7±1.9;1.9	0.8±1.9;1.9
Fe-59	-0.8±3.6;3.6	-0.4±4.2;4.2	0.4±4.0;4.0
Co-58	-0.7±1.8;1.8	0.3±2.3;2.3	1.5±2.4;2.4
Co-60	-0.6±2.1;2.1	0.3±1.7;1.7	0.4±1.8;1.8
Zn-65	-1.4±3.0;3.0	1.6±4.0;4.0	-2.6±4.2;4.2
Zr-Nb-95	1.3±3.6;3.6	0.6±4.0;4.0	2.9±3.6;3.6
Cs-134	-0.2±1.9;1.9	0.8±2.0;2.0	0.9±2.1;2.1
Cs-137	0.2±1.8;1.8	1.3±2.1;2.1	0.4±2.2;2.2
Ba-La-140	-1.0±5.1;5.1	-4.4±8.4;8.4	-0.6±4.2;4.2

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Table 9. Public Water
 Collection: Monthly composites of weekly collections
 Required LLD: 200 pCi/L for H-3
 Units: pCi/L

<u>Sample Description and Concentration</u>		
1995 Composite Period	Lab Code	Tritium
<u>BD-22 Wilmington</u>		
January	BDPW-0834	158±85;88
February	1638	7,104±251;998
March	2390	2,036±153;317
April	3612	1,232±132;214
May	6017	2,243±143;337
June	7596	1,038±120;185
July	8623	1,654±132;261
August	9180	2,590±154;385
September	10452	2,515±153;375
October	11573	1,718±132;269
November	NS ^a	-
4th Quarter	12840 ^a	2,054±142;313

^a Analysis frequency changed in accordance with UREMP. According to UREMP a quarterly composite of weekly collections is analyzed for H-3. UREMP was implemented on 11-17-95.

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Table 10. Cooling Water^a
 Collection : Weekly
 Required LLD: 4.0 pCi/L
 Units: pCi/L

Date Collected	Lab Code	Gross Beta		
		Suspended Solids	Dissolved Solids	Total Residue
<u>BD-08 (C) Intake Pipe</u>				
01-06-95	BDCW-0094	0.1±1.1;1.1	5.8±1.8;2.0	5.9±2.1;2.3
01-13-95	0232	1.1±1.6;1.6	6.1±1.9;2.1	7.2±2.5;2.6
01-20-95	0329	0.0±1.0;1.0	6.4±1.7;2.0	6.4±2.0;2.2
01-27-95	0540	0.1±1.5;1.5	6.4±1.7;2.0	6.5±2.3;2.5
02-03-95	0758	1.1±1.2;1.2	6.0±1.8;2.0	7.1±2.2;2.3
02-10-95	0907	0.2±1.1;1.1	5.9±1.8;2.0	6.1±2.1;2.3
02-17-95	1260	0.1±0.9;0.9	5.1±1.6;1.8	5.2±1.9;2.0
02-24-95	1368	0.2±0.9;0.9	5.8±1.7;2.0	6.0±2.0;2.2
03-03-95	1557	-0.7±0.7;0.7	6.1±1.7;2.0	5.4±1.9;2.1
03-10-95	1743	0.1±1.3;1.3	8.1±1.9;2.3	8.2±2.3;2.6
03-17-95	1915	0.0±1.3;1.3	5.8±1.3;1.6	5.8±1.8;2.0
03-24-95	2007	0.3±1.1;1.1	8.8±1.9;2.4	9.1±2.3;2.6
03-31-95	2163	<u>-0.7±1.1;1.1</u>	<u>6.1±1.8;2.0</u>	<u>5.4±2.1;2.3</u>
1st Qtr. mean ± s.d.		0.2±0.5	6.3±1.0	6.6±1.1
04-07-95	2409	-0.8±1.0;1.0	7.2±1.9;2.2	6.4±2.1;2.4
04-14-95	2683	0.2±1.2;1.2	5.4±1.7;1.9	5.6±2.1;2.3
04-21-95	2845	0.1±1.2;1.2	5.6±1.7;1.9	5.7±2.1;2.3
04-28-95	3384	1.0±1.3;1.4	6.5±1.7;2.0	7.5±2.1;2.3
05-05-95	3826	1.2±1.4;1.4	7.3±1.8;2.1	8.5±2.2;2.5
05-12-95	4564	0.1±1.2;1.2	7.4±1.7;2.0	7.5±2.1;2.4
05-19-95	4756	0.2±1.2;1.2	6.7±1.6;1.9	6.9±2.0;2.3
05-26-95	5239	1.0±1.3;1.3	5.2±1.5;1.7	6.2±2.0;2.1
06-02-95	5700	0.8±1.3;1.3	9.1±1.7;2.2	9.9±2.2;2.6
06-09-95	6229	-0.3±1.2;1.2	8.6±1.8;2.3	8.3±2.2;2.6
06-16-95	6463	-0.3±1.2;1.2	7.9±1.8;2.2	7.6±2.2;2.5
06-23-95	6874	0.6±1.2;1.3	7.0±1.8;2.1	7.6±2.1;2.4
06-30-95	7136	<u>-0.2±1.2;1.2</u>	<u>7.1±1.7;2.0</u>	<u>6.9±2.1;2.4</u>
2nd Qtr. mean ± s.d.		0.3±0.6	7.0±1.1	7.3±1.2

^a Intake and discharge sample points are not required by Technical Standards. Data is provided for information only.

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Table 10. Cooling Water^a
 Collection : Weekly
 Required LLD: 4.0 pCi/L
 Units: pCi/L

Date Collected	Lab Code	Gross Beta		
		Suspended Solids	Dissolved Solids	Total Residue
<u>BD-08 (C) Intake Pipe^b</u>				
07-07-95	BDCW-7433	-0.8±1.1;1.1	6.6±1.7;2.0	5.8±2.1;2.3
07-14-95	7648,9	0.5±0.9;0.9	6.7±1.2;1.6	7.2±1.5;1.8
07-21-95	7929	0.0±1.2;1.2	6.9±1.7;2.0	6.9±1.2;2.4
07-28-95	8253	-0.3±1.2;1.2	7.3±1.8;2.1	7.0±2.1;2.4
08-03-95	8427	-0.1±1.2;1.2	6.8±1.7;2.0	6.7±2.1;2.4
08-12-95	8646	1.0±1.2;1.2	8.0±1.9;2.2	9.0±2.2;2.6
08-18-95	8862	0.0±1.1;1.1	7.2±1.7;2.1	7.2±2.1;2.3
08-25-95	9054	1.1±1.2;1.2	6.5±1.7;2.0	7.6±2.1;2.3
09-01-95	9254	0.4±1.2;1.2	6.3±1.9;2.1	6.7±2.2;2.4
09-08-95	9474	0.1±1.1;1.1	7.0±1.9;2.2	7.1±2.2;2.5
09-15-95	9643	0.4±1.2;1.2	10.3±2.0;2.5	10.7±2.3;2.8
09-22-95	9848,9	0.4±0.8;0.8	10.4±1.4;2.1	10.8±1.6;2.3
09-29-95	10147	<u>-0.6±1.0;1.1</u>	<u>9.6±2.0;2.5</u>	<u>9.0±2.3;2.7</u>
3rd Qtr. mean ± s.d.		0.2±0.5	7.7±1.4	7.8±1.5
10-06-95	10411	-0.3±1.1;1.1	11.5±2.2;2.8	11.2±2.4;3.0
10-13-95	10773,4	0.3±0.8;0.8	9.2±1.4;2.0	9.5±1.6;2.1
10-20-95	11171	0.2±1.1;1.1	7.7±1.8;2.2	7.9±2.1;2.4
10-27-95	11326	0.7±1.2;1.2	6.4±1.7;2.0	7.1±2.0;2.3
11-03-95	11517	0.3±1.2;1.2	10.7±2.1;2.7	11.0±2.4;2.9
11-10-95	11688	0.5±0.9;0.9	8.2±1.4;1.9	8.7±1.7;2.1
11-17-95	NS ^b	-	-	-
4th Qtr. mean ± s.d.		0.3±0.3	9.0±1.7;1.7	9.2±1.5

^a Intake and discharge sample points are not required by Technical Standards. Data is provided for information only.

^b Sampling location deleted from the program in accordance with UREMP. UREMP was implemented on 11-17-95.

BRAIDWOOD

Table 10. Cooling Water^a
 Collection : Weekly
 Required LLD: 4.0 pCi/L
 Units: pCi/L

Date Collected	Lab Code	Gross Beta		
		Suspended Solids	Dissolved Solids	Total Residue
<u>BD-09 Discharge Pipe</u>				
01-06-95	BDCW-0095	0.2±1.1;1.1	5.4±1.6;1.8	5.6±2.0;2.1
01-13-95	0233	0.8±1.6;1.6	7.6±1.8;2.2	8.4±2.4;2.7
01-20-95	0330	1.0±1.6;1.6	6.8±1.8;2.1	7.8±2.4;2.6
01-27-95	0541	0.1±1.5;1.5	7.2±1.9;2.2	7.3±2.4;2.7
02-03-95	0759	0.1±1.1;1.1	6.4±1.7;2.0	6.5±2.0;2.3
02-10-95	0908	-0.2±0.9;0.9	5.5±1.7;1.9	5.3±1.9;2.1
02-17-95	1261	0.5±1.0;1.0	5.5±1.7;1.9	6.0±1.9;2.1
02-24-95	1387	-0.2±0.9;0.9	6.4±1.7;2.0	6.2±1.9;2.2
03-03-95	1558	-0.2±0.9;0.9	4.5±1.6;1.7	4.3±1.8;1.9
03-10-95	1744	6.8±1.7;2.1	56.4±3.8;9.5	63.2±4.2;9.7
03-17-95	1916	0.5±1.3;1.3	8.8±1.3;1.9	9.3±1.9;2.3
03-24-95	2008	1.4±1.3;1.3	7.5±1.8;2.1	8.9±2.2;2.5
03-31-95	2164	<u>0.4±1.1;1.1</u>	<u>6.4±1.7;2.0</u>	<u>6.8±2.0;2.3</u>
1st Qtr. mean ± s.d.		0.9±1.8	10.3±13.3	11.2±15.1
04-07-95	2410	0.0±1.1;1.1	7.7±1.8;2.1	7.7±2.1;2.4
04-14-95	2684	3.5±1.4;1.6	9.5±1.9;2.4	13.0±2.4;2.9
04-21-95	2846	0.7±1.2;1.2	6.3±1.8;2.0	7.0±2.2;2.4
04-28-95	3385	0.3±1.3;1.3	5.9±1.7;1.9	6.2±2.1;2.2
05-05-95	3827	0.4±1.3;1.3	6.7±1.7;2.0	7.1±2.2;2.4
05-12-95	4565	0.2±1.2;1.2	7.1±1.6;2.0	7.3±2.1;2.3
05-19-95	4757	1.0±1.3;1.3	17.8±2.1;3.5	18.8±2.5;3.7
05-26-95	5240	1.1±1.3;1.3	19.9±2.2;3.8	21.0±2.6;4.0
06-02-95	5701	0.5±1.3;1.3	10.6±1.8;2.4	11.1±2.2;2.7
06-09-95	6230	0.0±1.2;1.2	9.5±1.9;2.4	9.5±2.2;2.7
06-16-95	6464	0.7±1.3;1.3	9.1±1.9;2.3	9.8±2.2;2.6
06-23-95	6875	0.1±1.2;1.2	9.0±1.9;2.3	9.1±2.2;2.6
06-30-95	7137	<u>0.1±1.2;1.2</u>	<u>5.8±1.7;1.9</u>	<u>5.9±2.1;2.3</u>
2nd Qtr. mean ± s.d.		0.7±0.9	9.6±4.2	10.3±4.6

^a Intake and discharge sample points are not required by Technical Standards. Data is provided for information only.

BRAIDWOOD

Table 10. Cooling Water^a
 Collection : Weekly
 Required LLD: 4.0 pCi/L
 Units: pCi/L

Date Collected	Lab Code	Gross Beta		
		Suspended Solids	Dissolved Solids	Total Residue
<u>BD-09 Discharge Pipe^b</u>				
07-07-95	BDCW-7434	2.8±1.4;1.5	22.6±2.5;4.3	25.4±2.9;4.5
07-14-95	7650	0.5±1.2;1.2	7.5±1.8;2.1	8.0±2.2;2.5
07-21-95	7930	1.5±1.3;1.3	9.3±1.9;2.4	10.8±2.3;2.7
07-28-95	8254	1.7±1.3;1.4	6.7±1.7;2.0	8.4±2.2;2.4
08-03-95	8428	0.6±1.2;1.3	8.4±1.8;2.3	9.0±2.2;2.6
08-12-95	8647	0.4±1.4;1.4	7.5±1.9;2.3	7.9±2.4;2.7
08-18-95	8863	0.5±1.4;1.4	13.6±2.2;3.0	14.1±2.6;3.4
08-25-95	9055	0.5±1.1;1.1	13.2±1.9;1.9	13.7±2.2;3.0
09-01-95	9248	0.4±1.1;1.1	9.1±1.9;2.3	9.5±2.2;2.6
09-08-95	9475	1.9±1.2;1.3	8.7±1.8;2.3	10.6±2.2;2.6
09-15-95	9644	0.4±1.2;1.2	8.2±2.0;2.3	8.6±2.3;2.6
09-22-95	9850	2.6±1.3;1.4	9.0±2.0;2.4	11.6±2.4;2.8
09-29-95	10148	<u>1.0±1.1;1.2</u>	<u>9.7±2.0;2.5</u>	<u>10.7±2.3;2.8</u>
3rd Qtr. mean ± s.d.		1.1±0.8	10.3±4.1	11.4±4.5
10-06-95	10412	2.9±1.3;1.4	9.6±1.9;2.4	12.5±2.3;2.8
10-13-95	10775	-0.2±1.1;1.1	9.5±2.0;2.5	9.3±2.3;2.7
10-20-95	11172	0.7±1.2;1.2	8.3±1.9;2.3	9.0±2.2;2.6
10-27-95	11327	-0.8±1.1;1.1	11.4±2.1;2.7	10.6±2.4;3.0
11-03-95	11518	0.0±1.1;1.1	11.9±2.1;2.8	11.9±2.4;3.0
11-10-95	11689	0.7±1.2;1.2	8.4±1.4;1.9	9.1±1.9;2.3
11-17-95	NS ^b	-	-	-
4th Qtr. mean ± s.d.		0.6±1.2	9.9±1.4	10.4±1.4

^a Intake and discharge sample points are not required by Technical Standards. Data is provided for information only.

^b Sampling location deleted from the program in accordance with UREMP. UREMP was implemented on 11-17-95.

BRAIDWOOD

Table 10. Cooling Water
Collection : Weekly
Required LLD: 200 pCi/L
Units: pCi/L

<u>Sample Description and Concentration</u>		
1995 Composite Period	Lab Code	Tritium ^a
<u>BD-08 (C) Intake Pipe^b</u>		
1st Quarter	BDCW-2191	144±88;91
2nd Quarter	-7181	135±84;86
3rd Quarter	-10186	123±81;83
4th Quarter	-11833 ^c	93±78;79
<u>BD-09 Discharge Pipe^b</u>		
1st Quarter	BDCW-2192	80,825±813;11,022
2nd Quarter	-7182	280,874±1,458;38,227
3rd Quarter	-10187	105,434±864;14,365
4th Quarter	-11834 ^c	205±83;87

^a Tritium analysis not required by Technical Standards.

^b Sampling location deleted from the program in accordance with UREMP. UREMP was implemented on 11-17-95.

^c Result reflects six weekly collections during the quarter.

BRAIDWOOD

MILCH ANIMALS, NEAREST RESIDENCES, AND
NEAREST LIVESTOCK CENSUS

BRAIDWOOD

MILCH ANIMALS CENSUS, 1995

A. There is one dairy farm within a 6.5 mile radius of Braidwood Station.

B. Sampling Locations

BD-17 Halpins Dairy Farm

5.6 miles @ 200°

Number of cows being milked - 55

Diet consists of: 10% or less pasture
25% ground grain
65% green chop, hay or silage

BD-18 Biros Dairy Farm

8.7 miles @ 270°

Number of cows being milked - 94

Diet consists of: 25% pasture
25% ground grain
50% green chop

BDSP-24 Goodwin Dairy Farm

7.3 miles @ 79°

Number of cows being - 20

Diet consists of: 50% pasture
25% ground grain
25% hay

BD-26 Gaddis Dairy Farm

11.2 miles @ 122°

Number of cows being - 60

Diet consists of: 50% hay
50% ground grain

Census conducted by A. Lewis on August 15, 1995.

BRAIDWOOD

MILCH ANIMALS CENSUS, 1995
(continued)

BD-27 Prussner Dairy Farm
11.0 miles @ 178°
Number of cows being - 46
Diet consists of: no pasture
 25% ground grain
 75% hay or silage

Census conducted by A. Lewis on August 15, 1995.

BRAIDWOOD

NEAREST LIVESTOCK CENSUS, 1995

Nearest livestock of the Braidwood Station within a 6.5 mile radius.

<u>Sector</u>	<u>Direction</u>	<u>Distance</u>
A	N	2.6 miles
B	NNE	None
C	NE	5.0 miles
D	ENE	3.3 miles
E	E	2.3 miles
F	ESE	2.3 miles
G	SE	2.7 miles
H	SSE	4.1 miles
J	S	None
K	SSW	5.3 miles
L	SW	4.5 miles
M	WSW	3.8 miles
N	W	2.9 miles
P	WNW	None
Q	NW	None
R	NNW	6.5 miles

Census conducted by A. Lewis on August 15, 1995.

BRAIDWOOD

NEAREST RESIDENCE CENSUS, 1995

Nearest resident of the Braidwood Station within a 6.5 mile radius.

<u>Sector</u>	<u>Direction</u>	<u>Distance</u>
A	N	0.5 miles
B	NNE	1.8 miles
C	NE	0.7 miles
D	ENE	0.8 miles
E	E	0.8 miles
F	ESE	2.2 miles
G	SE	2.7 miles
H	SSE	3.3 miles
J	S	4.2 miles
K	SSW	1.3 miles
L	SW	0.4 miles
M	WSW	0.5 miles
N	W	0.4 miles
P	WNW	0.4 miles
Q	NW	0.4 miles
R	NNW	0.4 miles

Census conducted by A. Lewis on August 14, 1995.

BRAIDWOOD

4.0 TLD DATA*

*TLD Data provided by Commonwealth Edison Company.

Commonwealth Edison Company

Date: 24-JAN-96

Environmental Site Report for Braidwood

Page: 1

Gamma Radiation Measured in mR by TLDs

Site	Description	Quarter 1 1995	Quarter 2 1995	Quarter 3 1995	Quarter 4 1995
I. INDICATOR LOCATIONS					
a. Air Samplers (2 TLDs per location)					
BD-01	BRAIDWOOD	12.3	10.6	11.4	10.7
BD-02	CUSTER PARK	12.6	11.3	13.3	10.9
BD-04	ESSEX	12.3	11.0	12.2	11.1
BD-05	GARDNER	15.3	13.4	14.8	13.6
BD-06	GODLEY	12.5	10.7	11.6	10.7
BD-19	NEARSITE NW	13.3	11.9	13.1	11.9
BD-20	NEARSITE N	13.8	11.3	12.4	13.3
BD-21	NEARSITE NE	14.9	11.1	12.6	11.2
Air Sampler Mean ± S.D.		13.4 ± 1.2	11.4 ± 0.9	12.7 ± 1.1	11.7 ± 1.2
Annual Air Sampler Mean ± S.D.					12.3 ± 1.3
b. Inner Ring (100 Series)					
BD-101-1		13.8	11.6	12.8	11.7
BD-101-2		12.7	11.3	12.0	10.3
BD-101-3		12.3	11.7	12.4	11.1
BD-101-4		13.2	11.7	12.8	11.5
BD-102-1		12.6	10.9	12.1	11.2
BD-102-2		12.7	11.2	12.5	11.2
BD-103-1		13.0	11.9	13.2	11.9
BD-103-2		12.8	12.0	13.2	11.7
BD-104-1		13.1	10.8	11.3	10.7
BD-104-2		13.4	10.9	10.9	10.6
BD-105-1		13.2	11.0	11.8	10.9
BD-105-2		12.9	10.6	12.3	11.3
BD-106-1		13.0	11.1	12.6	11.1
BD-106-2		13.7	11.5	12.0	11.4
BD-107-1		14.8	11.3	12.2	11.3
BD-107-2		15.3	11.1	12.0	11.1
BD-108-1		-	10.4	12.0	10.8
BD-108-2		14.2	10.8	12.5	12.1
BD-109-1		12.6	13.3	14.7	13.7
BD-109-2		13.6	13.8	15.4	13.8
BD-110-1		13.8	10.8	11.9	10.4
BD-110-2		13.9	11.9	13.5	12.8
BD-111A-1		13.1	10.4	11.5	10.2
BD-111A-2		12.4	11.3	12.1	10.7
BD-111B-1		13.5	11.3	12.0	11.1

Site	Description	Quarter 1 1995	Quarter 2 1995	Quarter 3 1995	Quarter 4 1995
b. Inner Ring (100 Series)					
BD-111B-2		14.2	11.7	12.6	11.6
BD-112-1		13.6	11.1	11.6	11.2
BD-112-2		13.8	10.1	11.9	10.7
BD-113A-1		13.7	11.0	12.2	11.0
BD-113A-2		13.2	11.2	12.0	11.2
BD-113B-1		14.5	11.6	12.4	11.6
BD-113B-2		13.7	11.2	12.9	11.1
BD-114-1		13.9	10.9	12.7	11.5
BD-114-2		14.0	11.1	12.2	11.4
BD-115-1		13.9	11.3	12.5	11.3
BD-115-2		13.7	11.1	12.4	11.6
BD-116-1		17.4	11.6	12.6	11.4
BD-116-2		14.8	11.8	12.5	11.7
Inner Ring Mean \pm S.D.		13.6 \pm 0.9	11.3 \pm 0.7	12.4 \pm 0.8	11.4 \pm 0.8
Annual Inner Ring Mean \pm S.D.					12.2 \pm 1.2

c. Outer Ring (200 Series)

BD-201-1		12.5	14.9	16.1	14.9
BD-201-2		13.0	12.4	13.7	12.3
BD-202-1		13.1	11.4	12.2	11.1
BD-202-2		12.6	11.5	12.2	10.7
BD-203-1		13.5	12.3	13.0	12.2
BD-203-2		13.7	11.5	12.0	10.8
BD-204-1		13.0	10.7	11.5	10.2
BD-204-2		11.9	10.9	11.5	10.8
BD-205-1		13.2	10.6	11.4	11.0
BD-205-2		12.8	10.5	11.4	10.1
BD-206-1		16.5	14.4 *	12.6	14.1
BD-206-2		15.6	11.8	12.8	11.8
BD-207-1		13.8	10.7	12.0	10.9
BD-207-2		13.5	10.5	12.0	10.9
BD-208-1		18.5	11.2	11.8	11.1
BD-208-2		17.7	11.4	11.8	11.0
BD-209-1		16.4	15.4	16.7	15.1
BD-209-2		16.5	14.5	15.1	14.3
BD-210-1		13.1	17.0	17.7	16.3
BD-210-2		14.1	17.7	17.5	16.2
BD-211-1		13.6	14.9	15.5	14.3
BD-211-2		15.8	14.5	15.9	14.7
BD-212-1		12.6	12.7	13.9	12.6
BD-212-2		12.5	14.6	15.6	14.1
BD-212-3		16.3	11.8	12.4	11.0
BD-212-4		13.5	14.3	15.9	14.5
BD-213-1		11.2	11.4	12.8	11.9
BD-213-2		10.8	11.5	12.5	11.3
BD-213-3		11.3	11.1	12.6	10.5
BD-213-4		11.2	10.3	11.9	10.7
BD-214-1		12.2	12.3	13.5	11.8

Site	Description	Quarter 1 1995	Quarter 2 1995	Quarter 3 1995	Quarter 4 1995
c. Outer Ring (200 Series)					
BD-214-2		11.6	13.6	14.5	13.6
BD-215-1		12.7	11.1	11.9	10.5
BD-215-2		11.4	11.1	11.7	10.8
BD-216-1		11.8	14.7	15.0	14.0
BD-216-2		11.4	12.0	12.7	11.7
	Outer Ring Mean \pm S.D.	13.5 \pm 2.0	12.6 \pm 2.0	13.4 \pm 1.9	12.3 \pm 1.8
	Annual Outer Ring Mean \pm S.D.				13.0 \pm 2.0
	INDICATOR LOCATION MEAN \pm S.D.	13.5 \pm 1.5	11.9 \pm 1.5	12.9 \pm 1.5	11.8 \pm 1.4
	Annual INDICATOR LOCATION MEAN \pm S.D.				12.5 \pm 1.6
II. CONTROL LOCATIONS (2 TLDs per location)					
BD-03	COUNTY LINE ROAD	13.1	11.8	13.0	11.5
	CONTROL LOCATION Mean \pm S.D.				
	Annual CONTROL LOCATION Mean \pm S.D.				12.3 \pm 0.8
III. SPECIAL INTEREST LOCATIONS (1 TLD per location)					
BD-302-1	RESTRICTED AREA FENCE/NORTH OF DAW	22.7	31.5	47.8	24.2
BD-305-1	FOSSIL AREA	26.0	11.7	13.1	11.3
BD-305-2	HUNTING/FISHING COOLING ACCESS SITE	23.4	10.3	14.4 *	10.5
BD-309	HUNTING/FISHING COOLING ACCESS SITE	25.4	13.1	14.6	13.7
	SPECIAL INTEREST LOCATION Mean \pm S.D.	24.4 \pm 1.6	16.6 \pm 10.0	22.5 \pm 16.9	14.9 \pm 6.3
	Annual SPECIAL INTEREST LOCATION Mean \pm S.D.				19.6 \pm 10.1

COMMENTS: "*" Indicates lost dosimeter. A portion of the Dose was estimated.
 "*" Indicates edited dosimeter. The original Dose was replaced with an estimated value.

BRAIDWOOD

5.0 GRAPHS OF DATA TRENDS

Air Particulates - Gross Beta

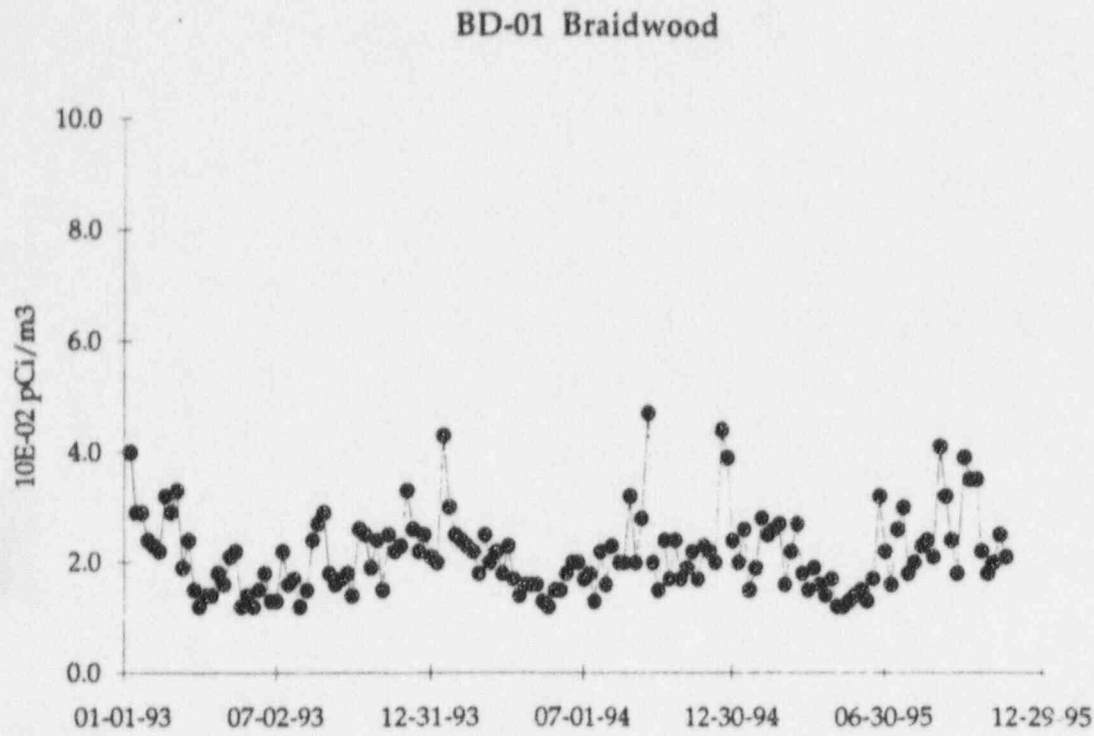


Figure 1. Continuous collection with weekly exchange of particulate filter.

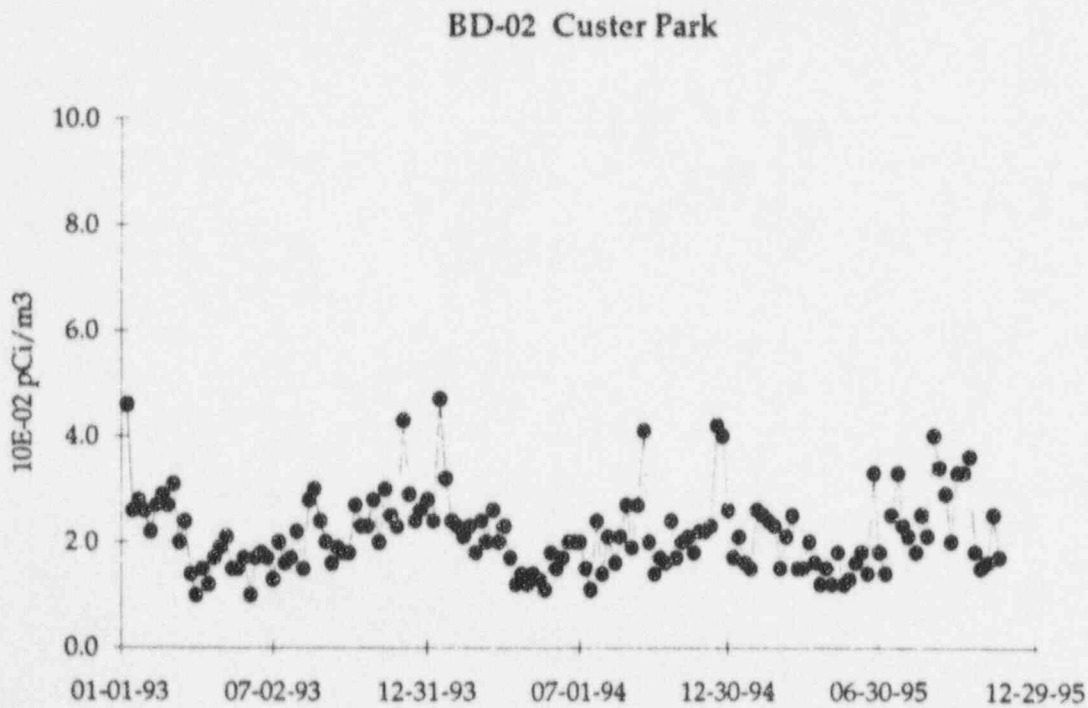
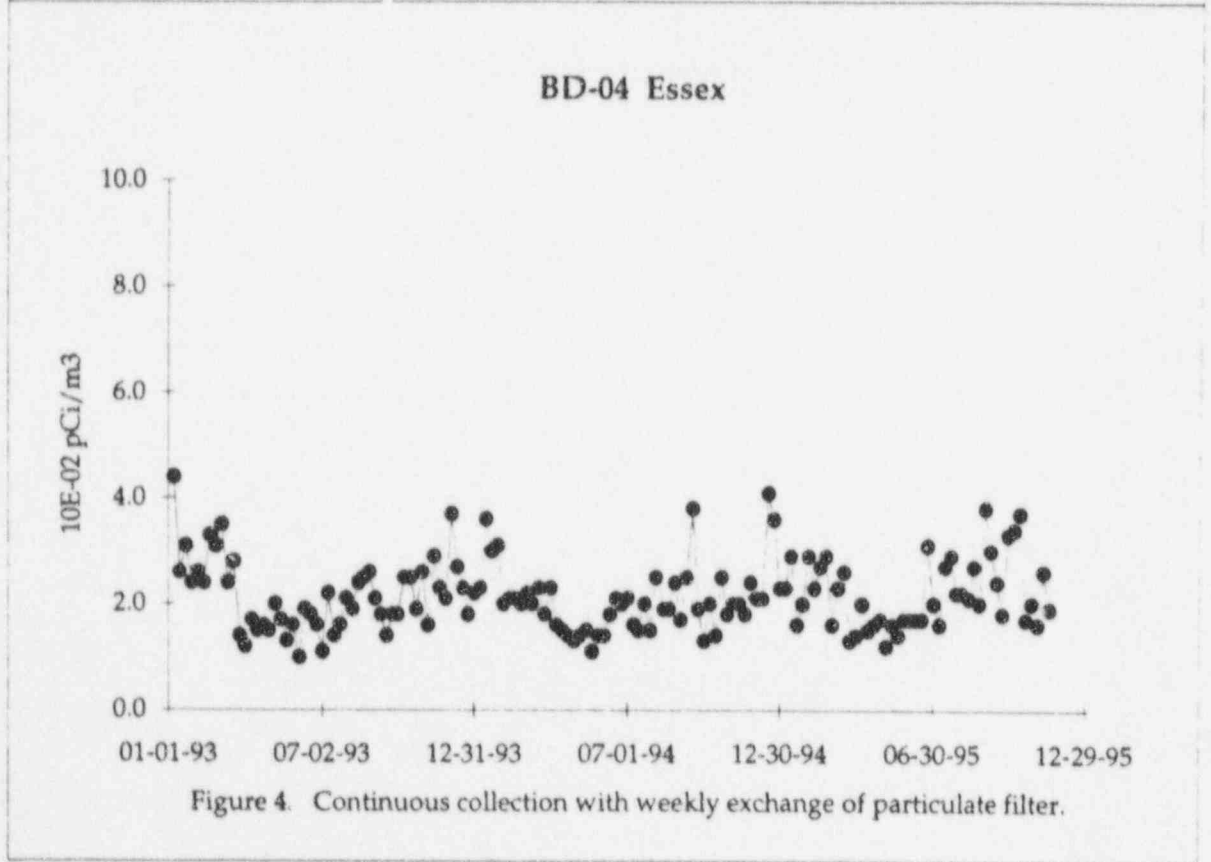
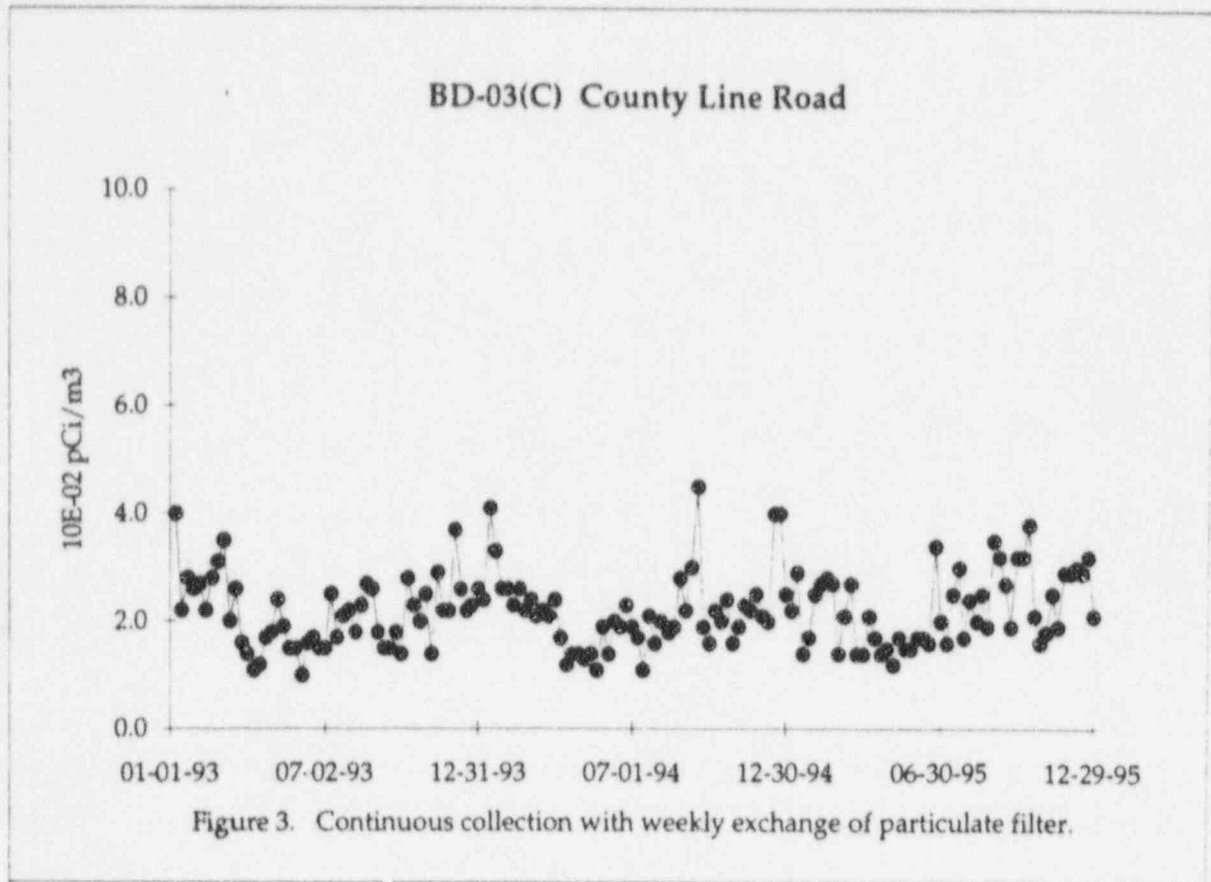
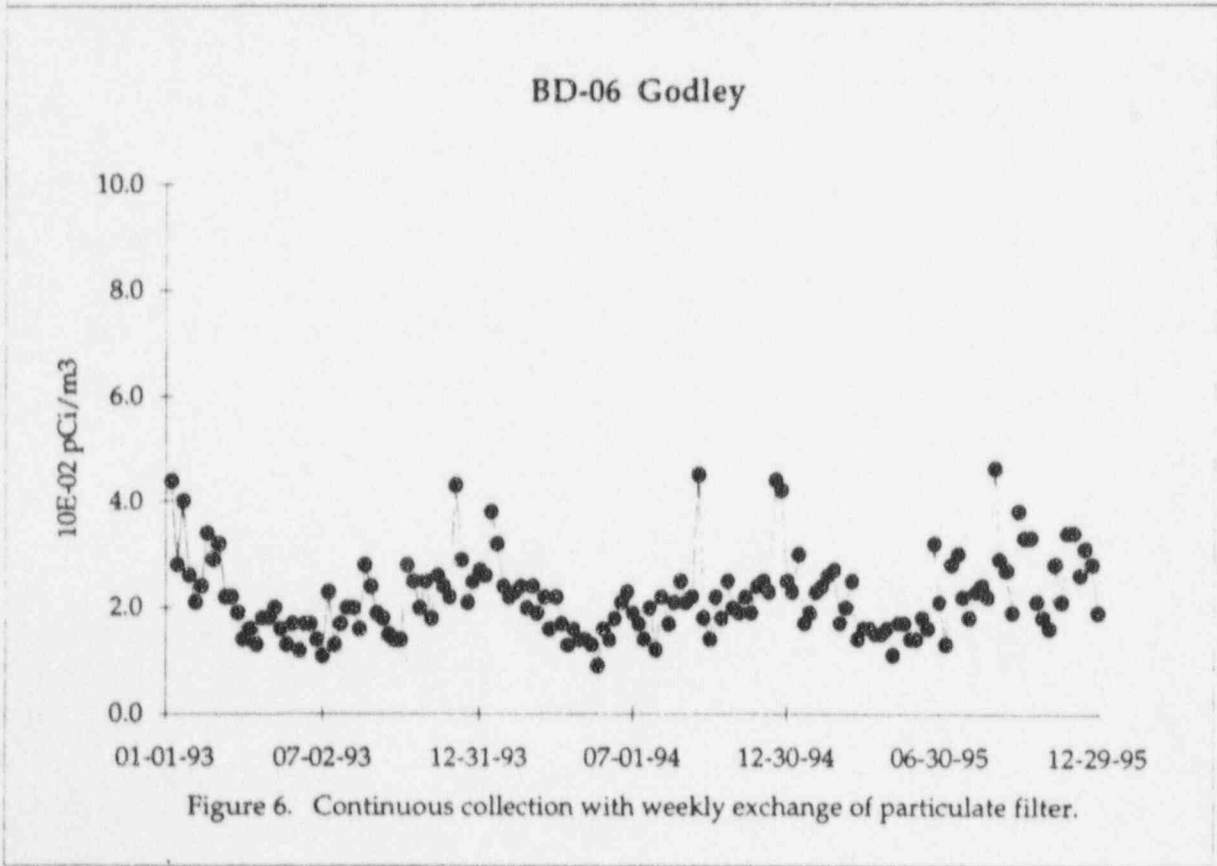
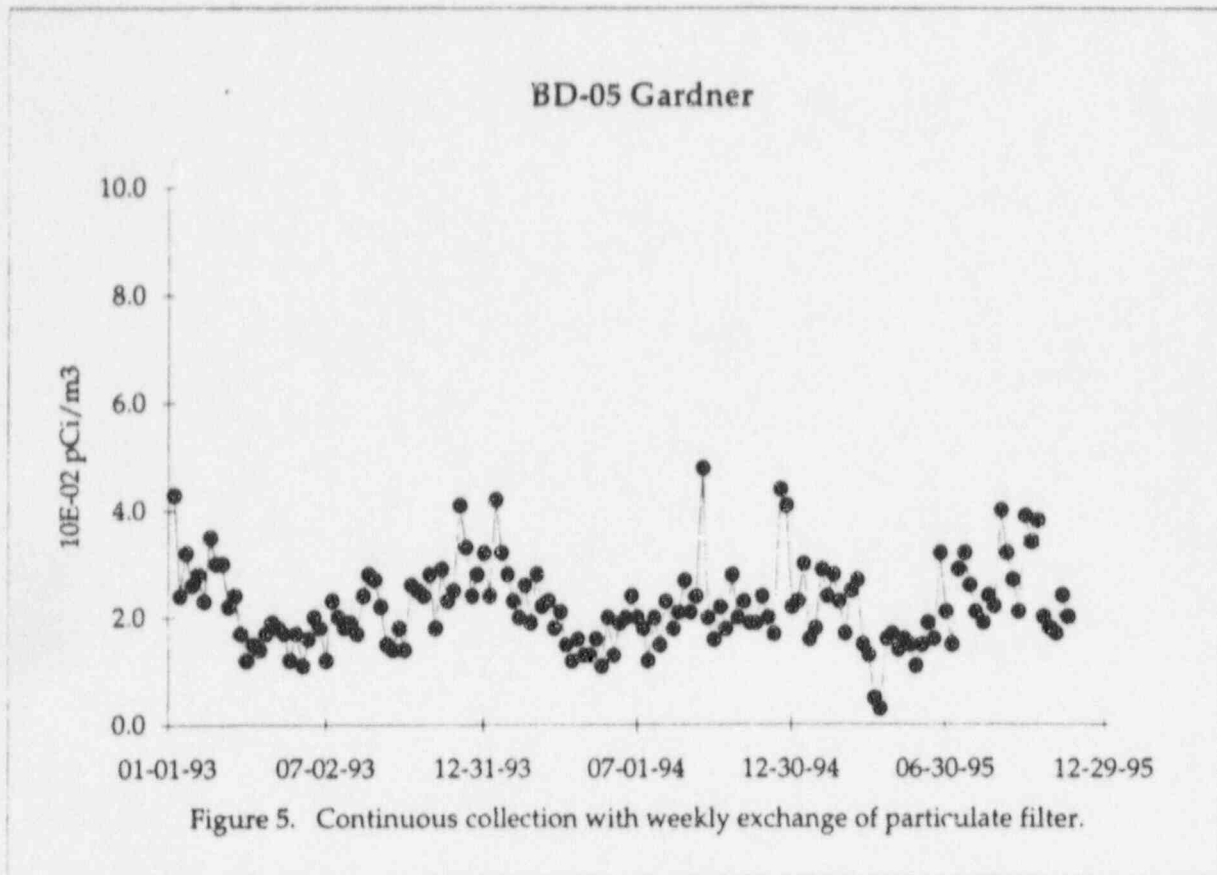


Figure 2. Continuous collection with weekly exchange of particulate filter.

Air Particulates - Gross Beta



Air Particulates - Gross Beta



Air Particulates - Gross Beta

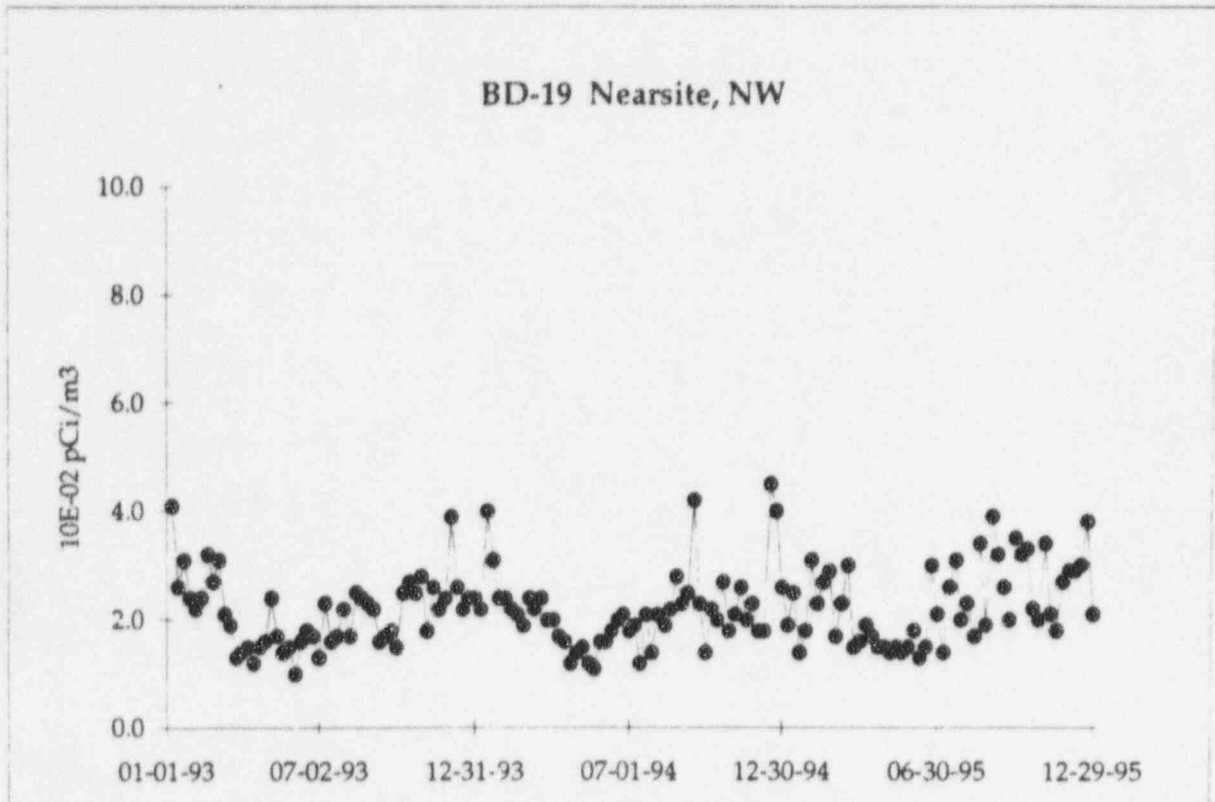


Figure 7. Continuous collection with weekly exchange of particulate filter.

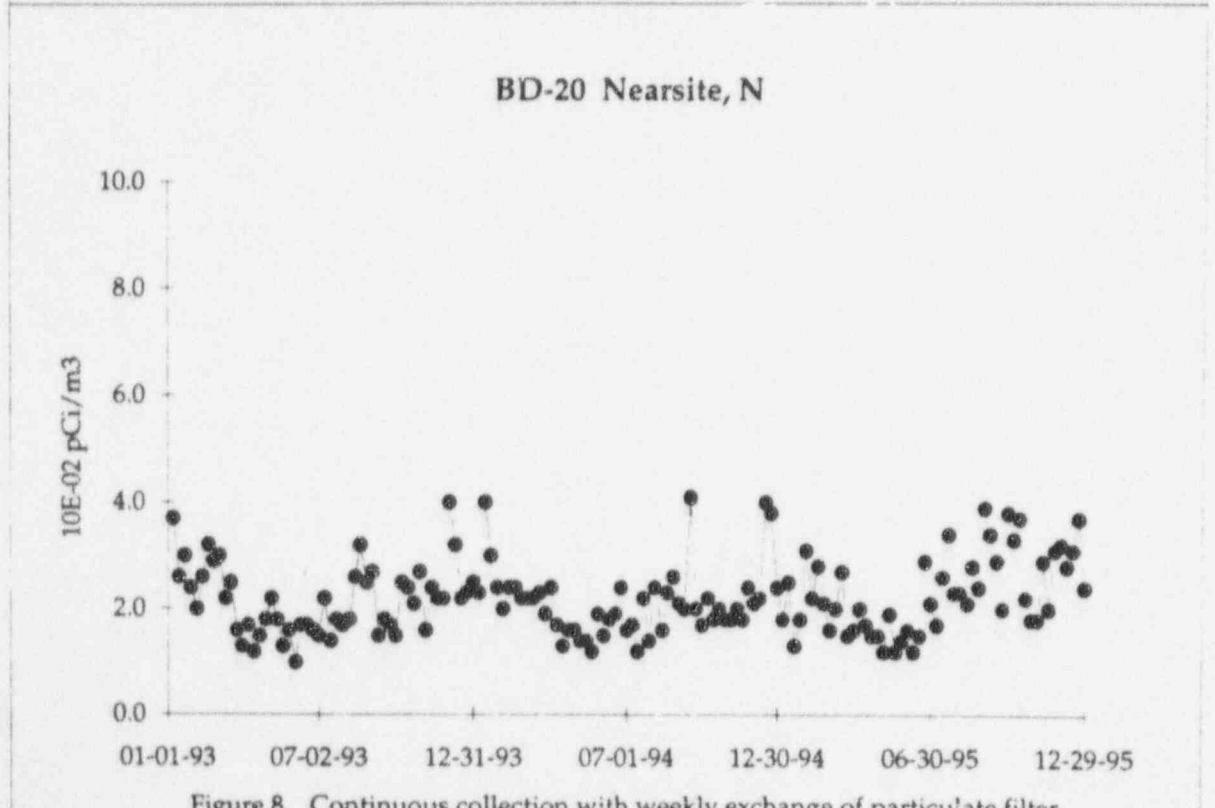
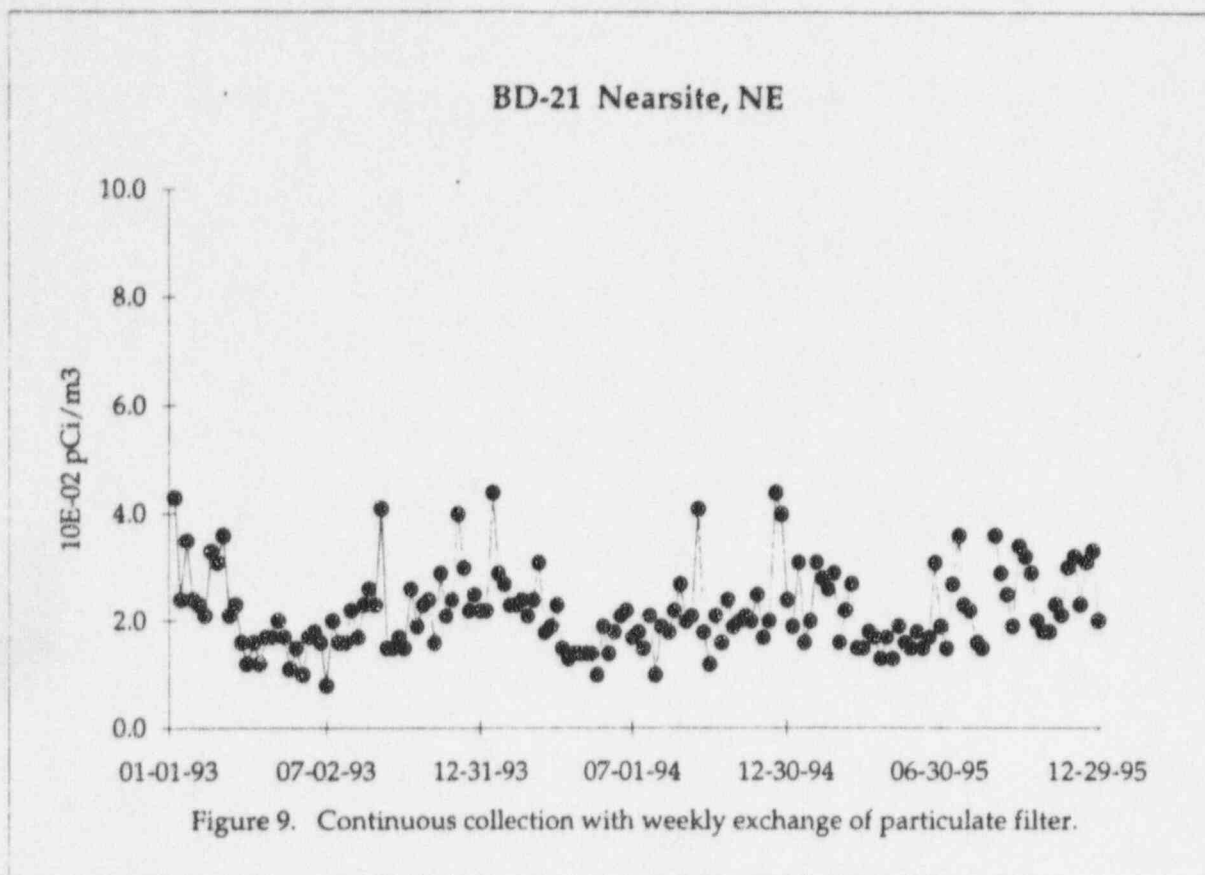


Figure 8. Continuous collection with weekly exchange of particulate filter.

Air Particulates - Gross Beta



Surface Water-Tritium

BD-07(C) Kankakee River, Upstream

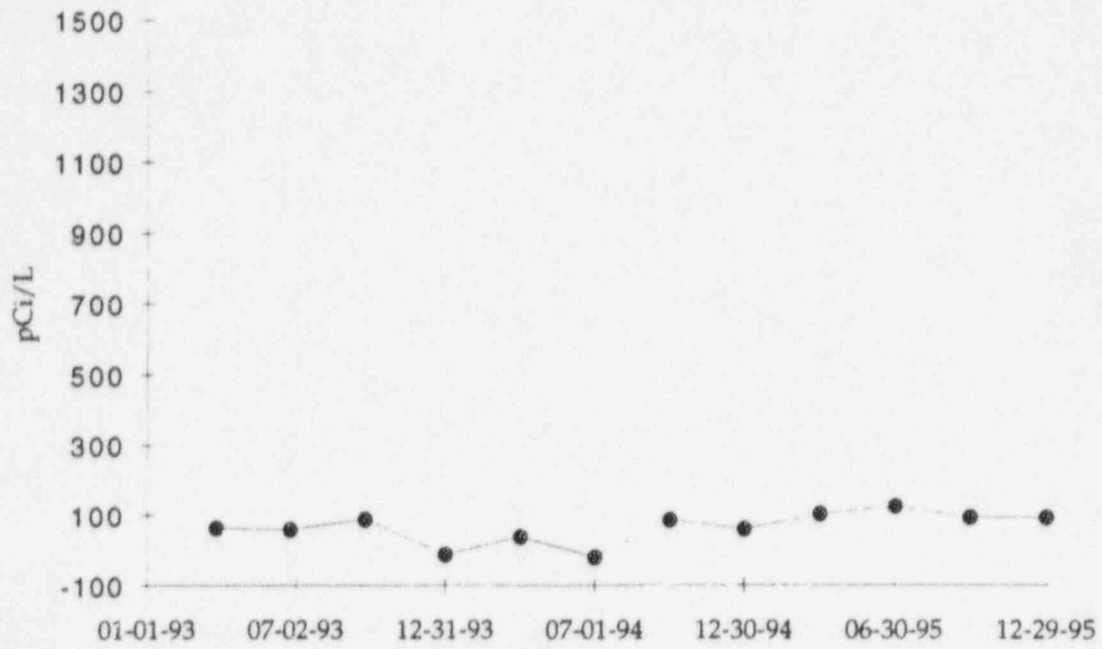


Figure 10. Quarterly composites of weekly collections.

BD-10 Kankakee River, Downstream

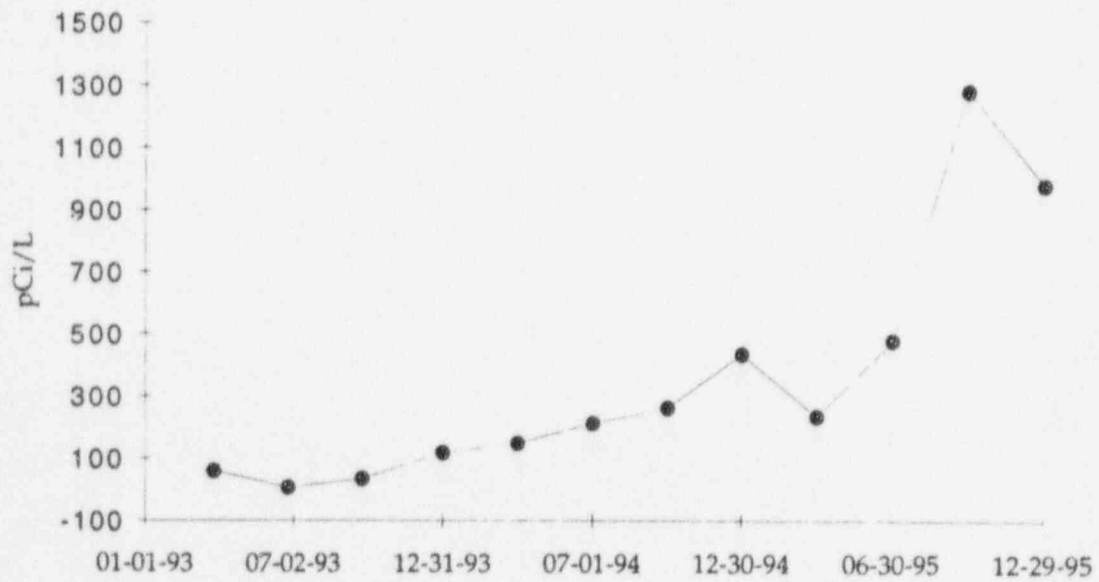


Figure 11. Quarterly composites of weekly collections.

Surface Water-Tritium

BD-25(C) Kankakee River, Upstream

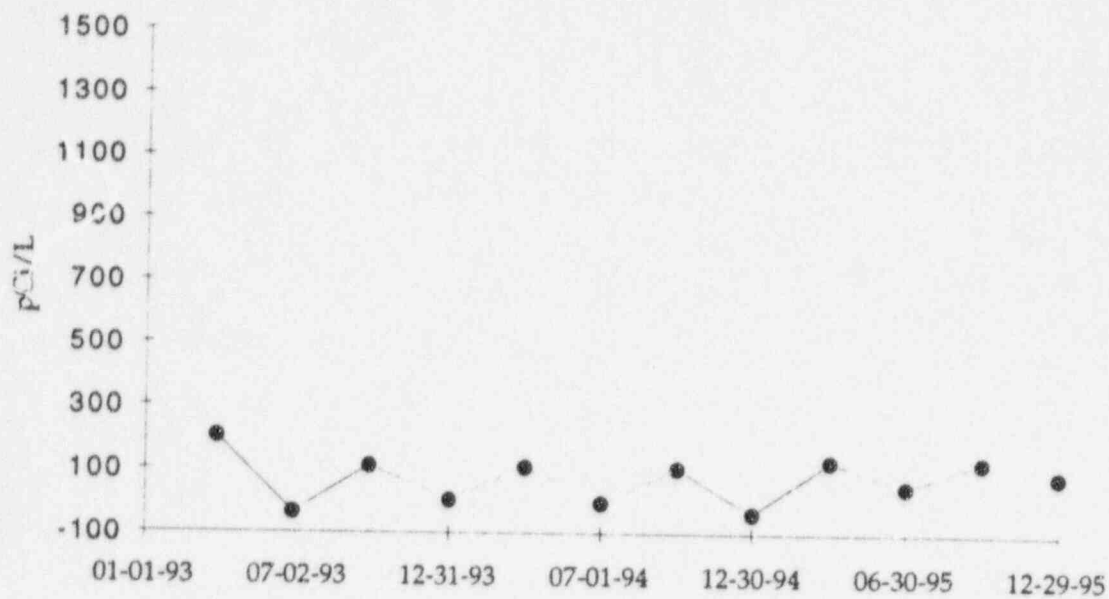
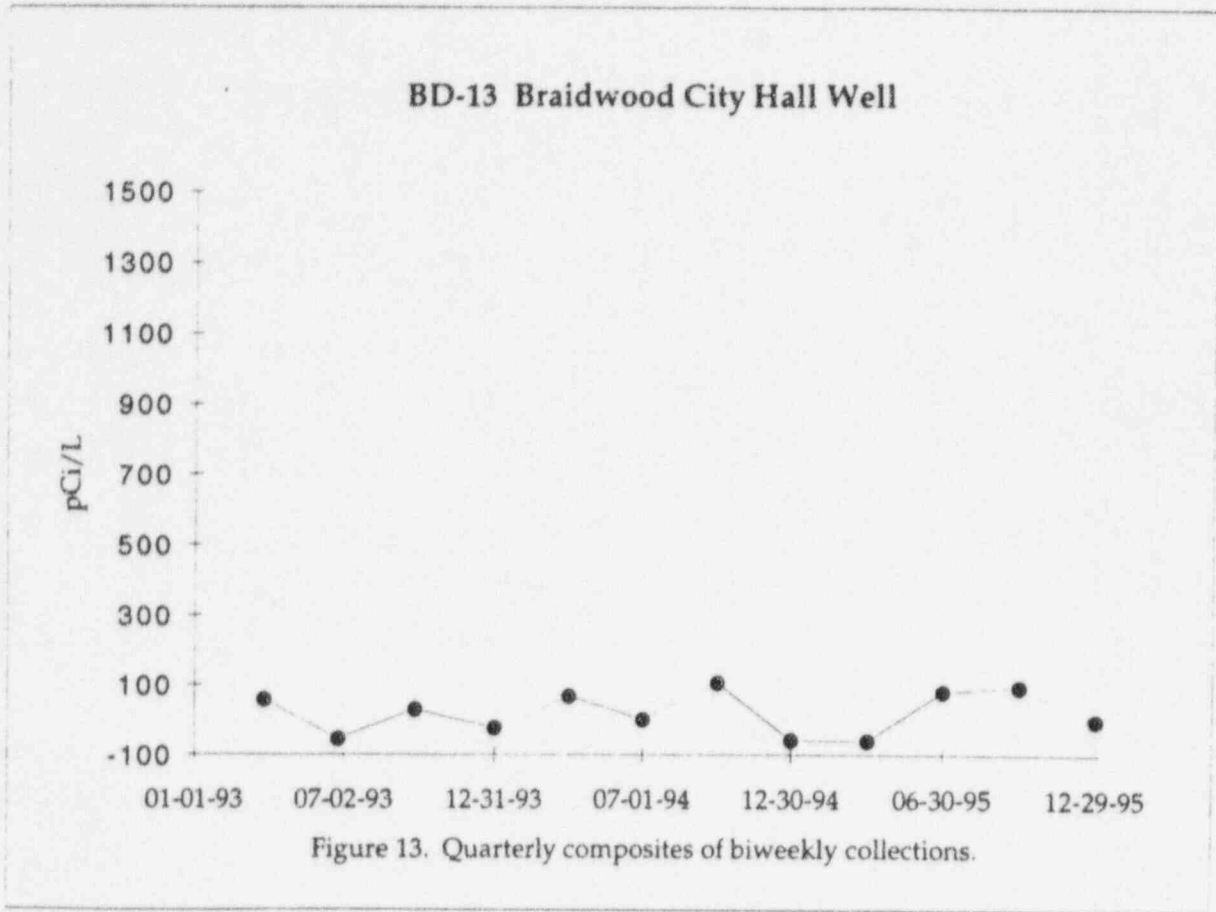
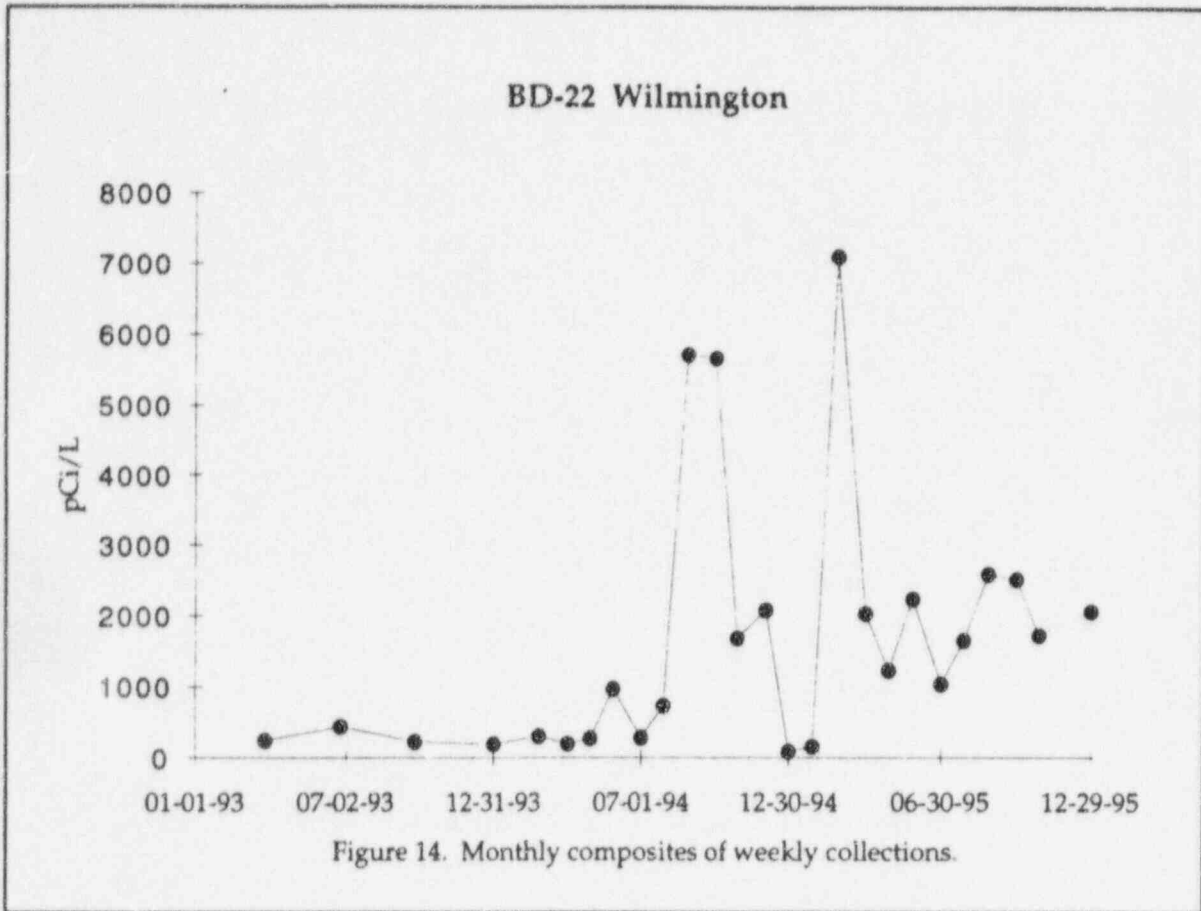


Figure 12. Quarterly composites of weekly collections.

Well Water-Tritium



Public Water-Tritium



Cooling Water-Tritium

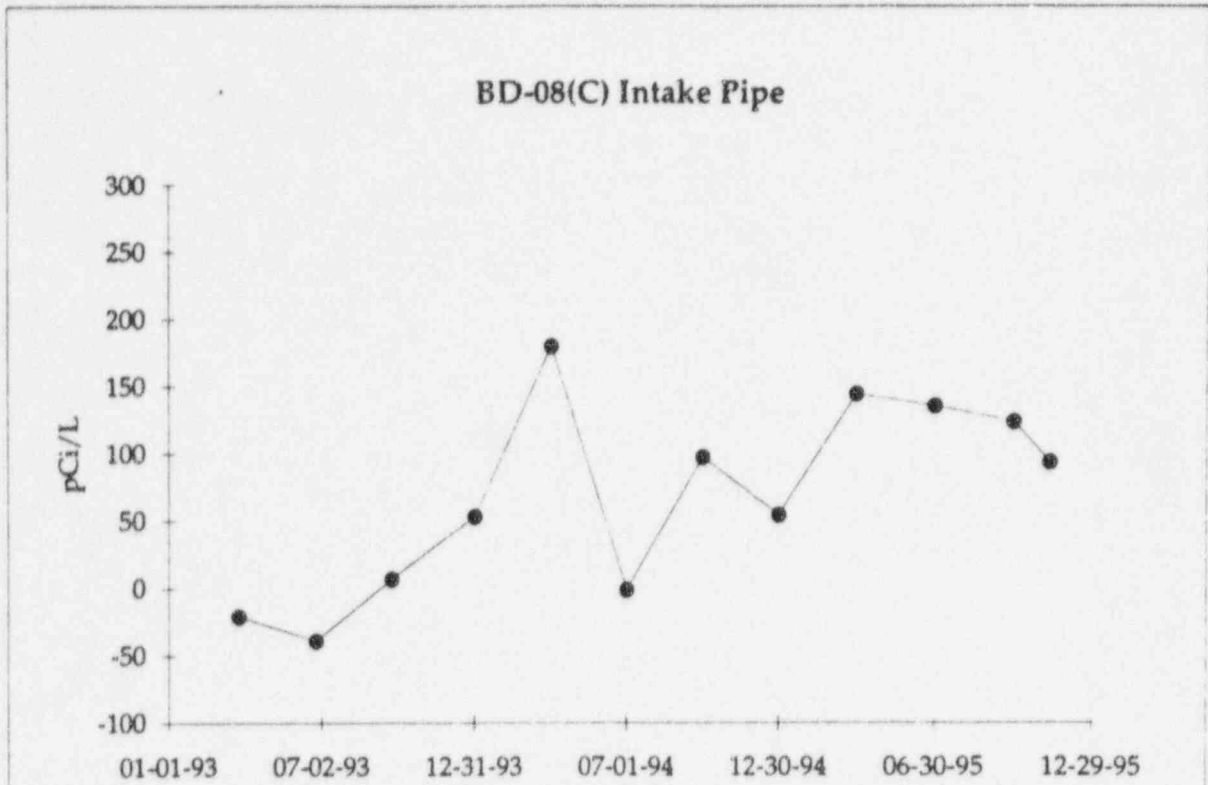


Figure 17. Quarterly composites of weekly collections.

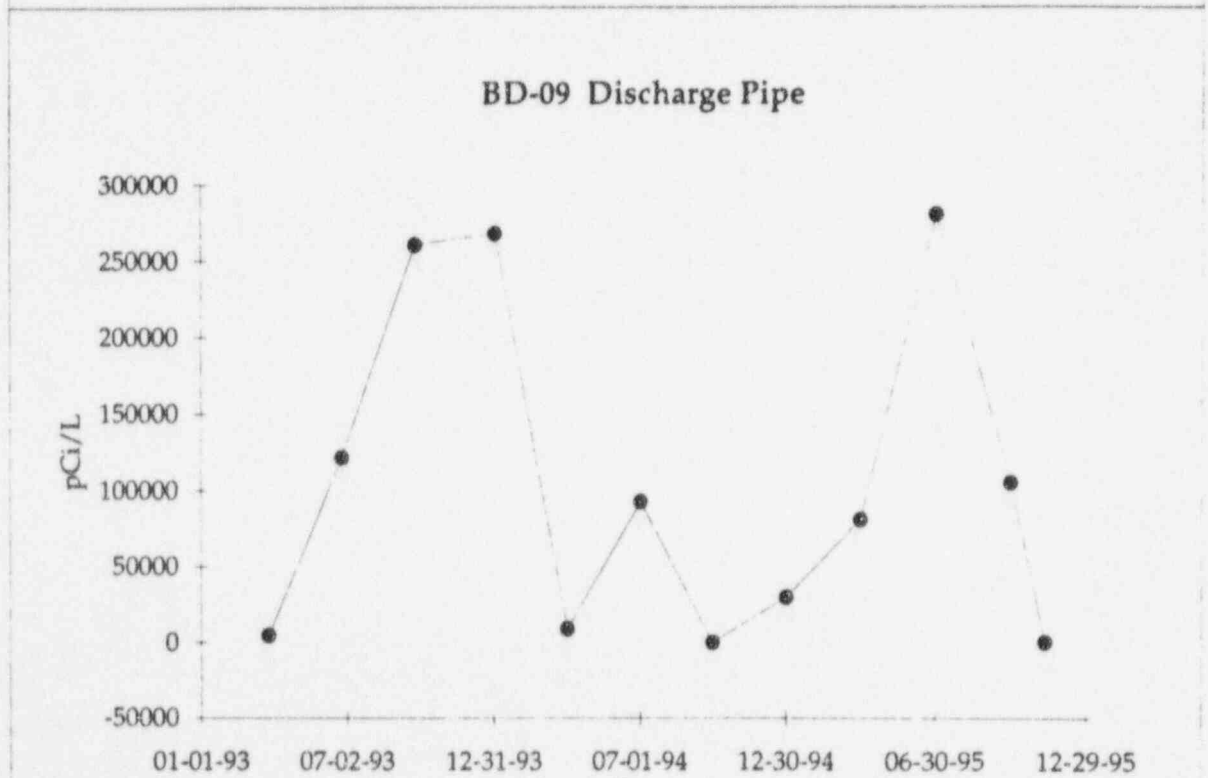
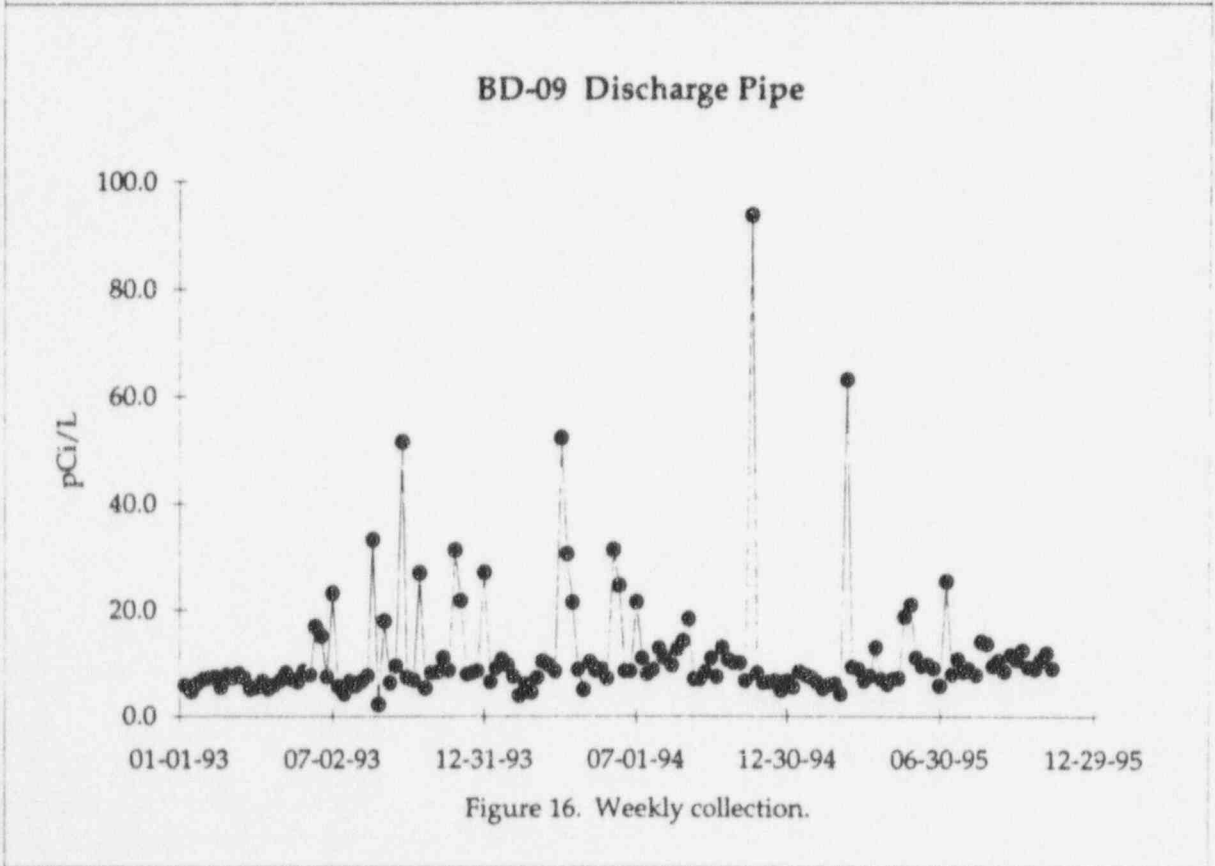
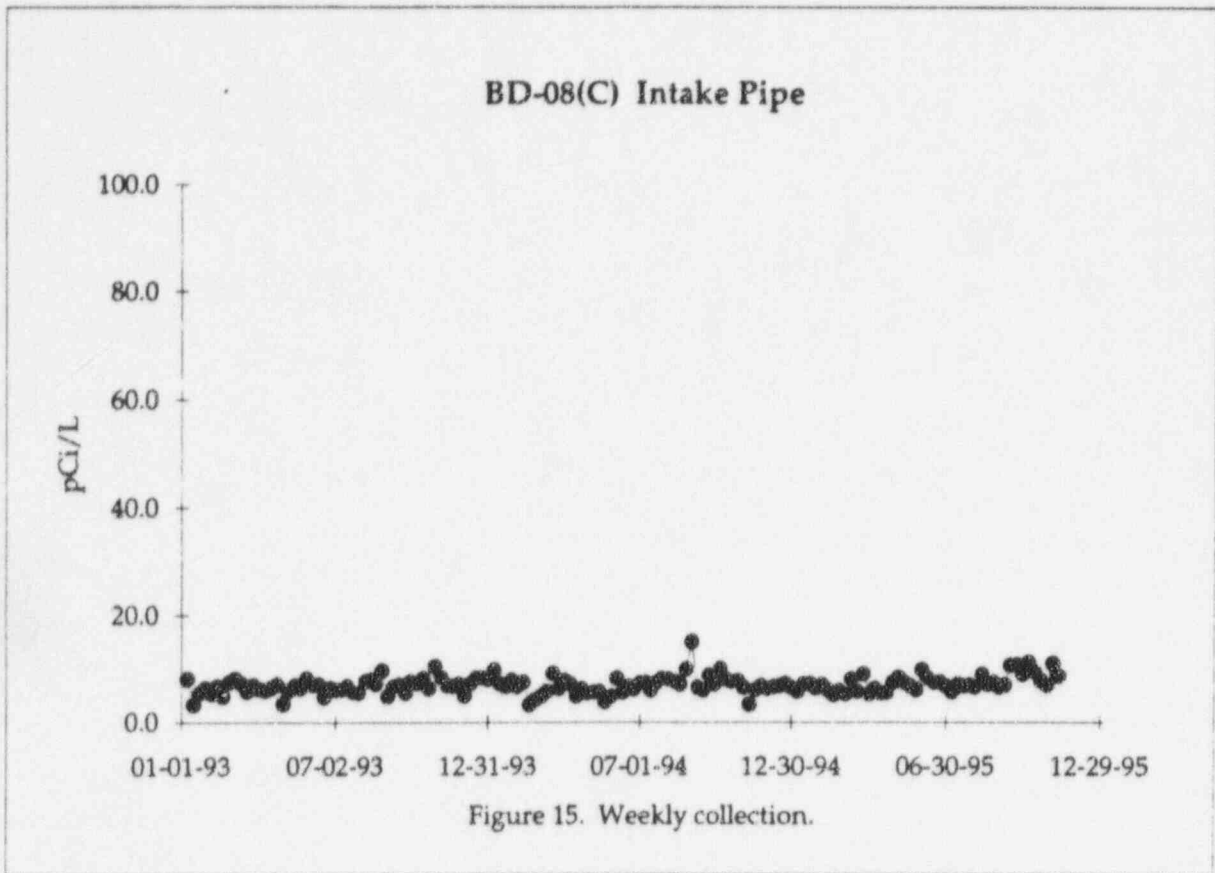


Figure 18. Quarterly composites of weekly collections.

Cooling Water-Gross Beta



APPENDIX IV

INTERLABORATORY COMPARISON PROGRAM RESULTS

Appendix IV

Interlaboratory Comparison Program Results

Teledyne Brown Engineering Environmental Services, Midwest Laboratory (formerly Teledyne Isotopes and Hazelton Environmental Services) 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 environmental type samples (e.g., milk or water) 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 the laboratory's analytical procedures and to alert it to 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.

The results in Table A-1 were obtained through participation in the environmental sample crosscheck program for milk, water, air filters, and food samples during the current year. This program is conducted by the U.S. Environmental Protection Agency Intercomparison and Calibration Section, Quality Assurance Branch, Environmental Monitoring and Support Laboratory, Las Vegas, Nevada.

Table A-2 lists results of the analyses on in-house "spiked" samples.

Table A-3 lists results of the in-house "blank" samples.

Table A-4 lists results of the in-house "duplicate" program.

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

Table A-1. U.S. Environmental Protection Agency's crosscheck program, comparison of EPA and Teledyne Brown Engineering Environmental Services, Midwest Laboratory results for various sample media^a.

Lab Code	Sample Type	Date Collected	Analysis	Concentration in pCi/L ^b		
				EPA Result ^c 1s, N=1	Control Limits	TBEESML Results ± 2 Sigma ^d
STW-723	Water	Jan, 1995	Sr-89	20.0 ± 5.0	11.3 - 28.7	17.7 ± 1.5; 2.3
STW-723	Water	Jan, 1995	Sr-90	15.0 ± 5.0	6.3 - 23.7	13.7 ± 0.6; 1.5
STW-724	Water	Jan, 1995	Gr. Alpha	5.0 ± 5.0	0.0 - 13.7	4.3 ± 0.6; 0.8
STW-724	Water	Jan, 1995	Gr. Beta	5.0 ± 5.0	0.0 - 13.7	4.7 ± 0.6; 0.9
STW-725	Water	Feb, 1995	I-131	100.0 ± 10.0	82.7 - 117.3	99.0 ± 4.4; 10.8
STW-726	Water	Feb, 1995	Ra-226	19.1 ± 2.9	14.1 - 24.1	19.2 ± 0.4; 2.0
STW-726	Water	Feb, 1995	Ra-228	20.0 ± 5.0	11.3 - 28.7	19.2 ± 2.0; 2.8
STW-726	Water	Feb, 1995	Uranium	25.5 ± 3.0	20.3 - 30.7	24.9 ± 0.2; 2.5
STW-727	Water	Mar, 1995	H-3	7435.0 ± 744.0	6144.2 - 8725.8	7460.0 ± 87.2; 1018.3
STW-728	Water	Mar, 1995	Pu-239	11.1 ± 1.1	9.2 - 13.0	11.0 ± 0.6; 1.3
STW-729	Water	Apr, 1995	Gr. Alpha	47.5 ± 11.9	26.9 - 68.1	41.7 ± 0.6; 5.1
STW-729	Water	Apr, 1995	Ra-226	14.9 ± 2.2	11.1 - 18.7	13.4 ± 0.5; 1.4
STW-729	Water	Apr, 1995	Ra-228	15.8 ± 4.0	8.9 - 22.7	13.1 ± 2.4; 2.8
STW-729	Water	Apr, 1995	Uranium	10.0 ± 3.0	4.8 - 15.2	9.5 ± 0.6; 1.1
STW-730	Water	Apr, 1995	Co-60	29.0 ± 5.0	20.3 - 37.7	29.0 ± 1.7; 4.5
STW-730	Water	Apr, 1995	Cs-134	20.0 ± 5.0	11.3 - 28.7	17.3 ± 1.2; 2.7
STW-730	Water	Apr, 1995	Cs-137	11.0 ± 5.0	2.3 - 19.7	11.0 ± 1.0; 1.9
STW-730	Water	Apr, 1995	Gr. Beta	86.6 ± 10.0	69.3 - 103.9	74.8 ± 3.2; 11.9
STW-730	Water	Apr, 1995	Sr-89	20.0 ± 5.0	11.3 - 28.7	17.0 ± 0.0; 1.7
STW-730	Water	Apr, 1995	Sr-90	15.0 ± 5.0	6.3 - 23.7	12.7 ± 1.2; 1.7
STW-732	Water	Jun, 1995	Ra-226	14.8 ± 2.2	11.0 - 18.6	14.7 ± 0.3; 1.5
STW-732	Water	Jun, 1995	Ra-228	15.0 ± 3.8	8.4 - 21.6	11.9 ± 0.6; 1.4
STW-732	Water	Jun, 1995	Uranium	15.2 ± 3.0	10.0 - 20.4	13.9 ± 0.3; 1.4
STW-735	Water	Jul, 1995	Gr. Alpha	27.5 ± 6.9	15.5 - 39.5	16.4 ± 2.4; 3.1
STW-735	Water	Jul, 1995	Gr. Beta	19.4 ± 5.0	10.7 - 28.1	16.8 ± 1.0; 2.8
STW-736	Water	Aug, 1995	H-3	4872.0 ± 487.0	4027.1 - 5716.9	4773.7 ± 49.9; 651.1

Table A-1. U.S. Environmental Protection Agency's crosscheck program, comparison of EPA and Teledyne Brown Engineering Environmental Services, Midwest Laboratory results for various sample media^a.

Lab Code	Sample Type	Date Collected	Analysis	Concentration in pCi/L ^b		
				EPA Result ^c 1s, N=1	Control Limits	TBEESML Results ± 2 Sigma ^d

^a Results obtained by Teledyne Brown Engineering Environmental Services Midwest Laboratory as a participant in the environmental sample crosscheck program operated by the Intercomparison and Calibration Section, Quality Assurance Branch, Environmental Monitoring and Support Laboratory, U.S. Environmental Protection Agency (EPA), Las Vegas, Nevada.

^b All results are in pCi/L, except for elemental potassium (K) data in milk, which are in mg/L; air filter samples, which are in pCi/Filter; and food products, which are in mg/Kg.

^c USEPA results are presented as the known values and expected laboratory precision (1s, 1 determination) and control limits as defined by the EPA.

^d Unless otherwise indicated, the TBEESML results are given as the mean ± 2 standard deviations for three determinations. The numbers after the semi-colon are the Total Propagated Uncertainty of the result.

Table A-2. In-house "spike" samples.

Lab Code	Sample Type	Date Collected	Analysis	Accepted Rejected	Concentration in pCi/L ^a		
					Known Activity	Control Limits ^b	TBEESML Results 2s, n=1 ^c
SPMI-205	Milk	Jan, 1995	Cs-137	A	49.4	35.4 - 63.4	51.2 ± 7.5; 9.1
SPMI-205	Milk	Jan, 1995	Sr-89	A	23.1	16.9 - 29.4	19.4 ± 3.4; 3.9
SPMI-205	Milk	Jan, 1995	Sr-90	A	28.1	22.4 - 33.9	26.2 ± 1.3; 2.9
SPAP-284	Air Filter	Jan, 1995	Cs-137	A	1.9	1.5 - 2.3	2.2 ± 0.0; 0.2
SPAP-284	Air Filter	Jan, 1995	I-131(g)	A	1.9	1.5 - 2.3	2.2 ± 0.0; 0.2
SPW-286	Water	Jan, 1995	H-3	A	40871.0	29852.0 - 51890.0	40929.9 ± 5594.5; 6931.9
SPW-289	Water	Jan, 1995	Co-60	A	247.5	194.0 - 301.0	250.5 ± 14.1; 28.7
SPW-289	Water	Jan, 1995	Cs-134	A	321.3	256.7 - 385.9	290.5 ± 14.4; 32.4
SPW-289	Water	Jan, 1995	Cs-137	A	394.3	310.7 - 477.9	387.7 ± 21.2; 44.2
SPAP-408	Air Filter	Jan, 1995	Gr. Beta	A	8.1	6.6 - 9.7	7.5 ± 0.0; 0.7
SPMI-707	Milk	Jan, 1995	I-131	A	86.0	69.3 - 102.7	80.3 ± 1.4; 8.1
SPMI-707	Milk	Jan, 1995	I-131(g)	A	86.0	64.0 - 108.0	84.8 ± 10.4; 13.4
SPCH-717	Charcoal Canister	Jan, 1995	I-131(g)	A	2.5	1.9 - 3.0	2.9 ± 0.1; 0.3
SPVE-729	Vegetation	Feb, 1995	I-131(g)	A	1.9	1.5 - 2.3	1.9 ± 0.1; 0.2
SPW-1204	Water	Feb, 1995	Ra-226	A	6.9	5.5 - 8.3	6.9 ± 0.1; 0.7
SPW-1790	Water	Mar, 1995	Sr-89	R	42.7	34.5 - 50.9	0.9 ± 3.9; 3.9
The raw data was reviewed and found to be free of errors. The sample was repeated with similar results. An Investigation was conducted to determine the cause of this deviation. No apparent cause was found for this discrepancy. It was determined the "spike" was prepared improperly. Another "spike" was prepared and analyzed (See SPW-6388). No further action is planned.							
SPW-1790	Water	Mar, 1995	Sr-90	R	39.1	31.6 - 46.6	31.4 ± 1.8; 3.6
The raw data was reviewed and found to be free of errors. The sample was repeated with similar results. An Investigation was conducted to determine the cause of this deviation. No apparent cause was found for this discrepancy. It was determined the "spike" was prepared improperly. Another "spike" was prepared and analyzed (See SPW-6388). No further action is planned.							
SPW-3051	Water	Mar, 1995	Gr. Alpha	A	82.9	65.0 - 100.8	88.5 ± 3.7; 9.6
SPW-3051	Water	Mar, 1995	Gr. Beta	A	87.2	69.9 - 104.5	83.0 ± 2.3; 8.6
SPAP-2513	Air Filter	Apr, 1995	Gr. Beta	A	8.1	6.5 - 9.7	7.5 ± 0.0; 0.8
SPAP-2542	Air Filter	Apr, 1995	Cs-137	A	1.9	-0.3 - 4.2	2.3 ± 2.1; 2.1
SPW-2544	Water	Apr, 1995	H-3	A	9333.0	7391.0 - 11275.0	9656.2 ± 291.8; 1008.7
SPW-2652	Water	Apr, 1995	Co-60	A	24.8	18.9 - 30.7	23.8 ± 2.4; 3.4
SPW-2652	Water	Apr, 1995	Cs-134	A	30.8	24.0 - 37.6	29.3 ± 2.3; 3.7
SPW-2652	Water	Apr, 1995	Cs-137	A	40.9	31.1 - 50.7	42.3 ± 3.9; 5.8
SPMI-2988	Milk	Apr, 1995	Cs-134	A	40.7	32.5 - 48.9	37.0 ± 1.8; 4.1
SPMI-2988	Milk	Apr, 1995	Cs-137	A	54.5	42.1 - 67.0	62.4 ± 3.1; 7.0

Table A-2. In-house "spike" samples.

Lab Code	Sample Type	Date Collected	Analysis	Accepted Rejected	Concentration in pCi/L ^a		
					Known Activity	Control Limits ^b	TBESML Results 2s, n=1 ^c
SPMI-2988	Milk	Apr, 1995	Sr-89	A	36.5	28.2 - 44.8	32.6 ± 3.3; 4.6
SPMI-2988	Milk	Apr, 1995	Sr-90	A	24.9	19.4 - 30.4	25.6 ± 1.6; 3.0
SPW-3051	Water	Apr, 1995	Gr. Alpha	A	82.9	65.0 - 100.8	88.0 ± 3.8; 9.6
SPW-3051	Water	Apr, 1995	Gr. Beta	A	87.2	70.2 - 104.2	79.6 ± 2.3; 8.3
SPW-3589	Water	May, 1995	Fe-55	A	2274.0	1506.6 - 3041.4	2033.7 ± 500.2; 540.0
SPF-3708	Fish	May, 1995	Cs-134	A	0.1	0.1 - 0.2	0.1 ± 0.0; 0.0
SPF-3708	Fish	May, 1995	Cs-137	A	0.2	0.1 - 0.2	0.2 ± 0.0; 0.0
SPW-6008	Water	May, 1995	Gr. Alpha	A	20.7	16.4 - 25.0	17.3 ± 1.4; 2.2
SPW-6008	Water	May, 1995	Gr. Beta	A	21.8	17.3 - 26.3	21.2 ± 1.0; 2.3
SPSO-5130	Soil	May, 1995	Cs-134	A	0.3	0.2 - 0.3	0.3 ± 0.0; 0.0
SPSO-5130	Soil	May, 1995	Cs-137	A	0.5	0.4 - 0.6	0.5 ± 0.0; 0.1
SPW-6388	Water	May, 1995	Sr-89	A	21.2	16.0 - 26.4	18.7 ± 2.4; 3.0
SPW-6388	Water	May, 1995	Sr-90	A	23.2	18.5 - 27.9	21.2 ± 1.1; 2.4
SPW-6398	Water	May, 1995	Sr-89	A	21.2	16.1 - 26.3	18.7 ± 2.4; 3.0
SPW-6398	Water	May, 1995	Sr-90	A	23.2	18.5 - 27.9	21.2 ± 1.1; 2.4
SPW-5608	Water	Jun, 1995	I-131	A	85.5	68.7 - 102.3	78.8 ± 2.3; 8.2
SPCH-596	Charcoal Canister	Jun, 1995	I-131(g)	A	2.3	1.9 - 2.8	2.2 ± 0.1; 0.2
SPW-6005	Water	Jun, 1995	I-131	A	46.8	36.9 - 56.7	48.2 ± 1.9; 5.2
SPVE-6006	Vegetation	Jun, 1995	I-131(g)	A	0.5	0.4 - 0.7	0.6 ± 0.0; 0.1
SPMI-6838	Milk	Jun, 1995	I-131	A	39.6	31.8 - 47.4	38.5 ± 0.5; 3.9
SPW-6839	Water	Jun, 1995	I-131	A	39.5	32.0 - 47.0	34.9 ± 0.5; 3.5
SPVE-7190	Vegetation	Jul, 1995	I-131(g)	A	1.0	0.8 - 1.2	1.1 ± 0.0; 0.1
SPMI-7525	Milk	Jul, 1995	Cs-134	A	34.4	26.9 - 41.9	31.5 ± 2.5; 4.0
SPMI-7525	Milk	Jul, 1995	Cs-137	A	43.4	32.7 - 54.1	50.2 ± 4.0; 6.4
SPMI-7525	Milk	Jul, 1995	I-131(g)	A	45.6	34.1 - 57.1	44.7 ± 5.4; 7.0
SPMI-7525	Milk	Jul, 1995	Sr-90	A	27.9	22.0 - 33.8	28.0 ± 1.4; 3.1
SPAP-7554	Air Filter	Jul, 1995	Gr. Beta	A	8.1	6.5 - 9.6	7.3 ± 0.0; 0.7
SPAP-7557	Air Filter	Jul, 1995	Cs-137	A	1.5	1.5 - 2.3	2.3 ± 0.0; 0.2
SPW-7569	Water	Jul, 1995	H-3	A	26669.0	21382.9 - 31955.1	25806.9 ± 447.7; 2619.2
SPW-8179	Water	Jul, 1995	Fe-55	A	2.1	1.4 - 2.9	2.3 ± 0.4; 0.5
SPW-9981	Water	Sep, 1995	Sr-89	A	39.0	29.1 - 48.9	34.6 ± 4.9; 6.0
SPW-9981	Water	Sep, 1995	Sr-90	A	20.0	15.6 - 24.4	20.3 ± 1.3; 2.4
SPMI-1091	Milk	Oct, 1995	Cs-134	A	27.8	20.2 - 35.4	27.9 ± 3.9; 4.8
SPMI-1091	Milk	Oct, 1995	Cs-137	A	43.1	30.2 - 56.1	52.3 ± 6.9; 8.7
SPMI-1091	Milk	Oct, 1995	I-131	A	73.4	58.9 - 87.8	70.9 ± 0.8; 7.1

Table A-2. In-house "spike" samples.

Lab Code	Sample Type	Date Collected	Analysis	Accepted Rejected	Concentration in pCi/L ^a		
					Known Activity	Control Limits ^b	TBEESML Results 2s, n=1 ^c
SPMI-1091	Milk	Oct, 1995	I-131(g)	A	73.4	55.0 - 91.7	77.1 ± 7.9; 11.0
SPF-10921	Fish	Oct, 1995	Co-60	A	0.8	0.6 - 0.9	0.7 ± 0.0; 0.1
SPF-10921	Fish	Oct, 1995	Cs-134	A	0.6	0.4 - 0.7	0.5 ± 0.0; 0.1
SPF-10921	Fish	Oct, 1995	Cs-137	A	0.9	0.7 - 1.1	0.9 ± 0.1; 0.1
SPCH-112	Charcoal Canister	Oct, 1995	I-131(g)	A	0.8	0.6 - 1.0	0.8 ± 0.0; 0.1
SPAP-109	Air Filter	Nov, 1995	Gr. Beta	A	8.0	6.5 - 9.5	7.3 ± 0.0; 0.7
SPW-1207	Water	Nov, 1995	H-3	A	29315.0	23551.9 - 35078.1	27963.4 ± 445.5; 2831.6
SPW-1208	Water	Nov, 1995	Co-60	A	23.0	17.8 - 28.2	22.0 ± 1.9; 2.9
SPW-1208	Water	Nov, 1995	Cs-134	A	41.7	33.2 - 50.2	38.1 ± 2.0; 4.3
SPW-1208	Water	Nov, 1995	Cs-137	A	24.3	17.8 - 30.8	27.2 ± 3.0; 4.0
SPW-1208	Water	Nov, 1995	Gr. Alpha	A	82.8	66.3 - 99.3	75.3 ± 3.2; 8.2
SPW-1208	Water	Nov, 1995	Gr. Beta	A	86.3	68.6 - 104.0	86.9 ± 2.5; 9.0
SPW-1280	Water	Dec, 1995	Gr. Alpha	A	20.7	15.1 - 26.3	19.6 ± 3.0; 3.6
SPW-1280	Water	Dec, 1995	Gr. Beta	A	21.6	16.7 - 26.5	21.0 ± 1.8; 2.8

^a All results are in pCi/L, except for elemental potassium (K) data in milk, which are in mg/L.; air filter samples, which are in pCi/Filter; and food products, which are in mg/Kg.

^b Control limits are based on the known value ± 10%+TPU (Where all parametric uncertainties, other than counting statistics, are less than 5%).

^c All samples are the results of single determinations. The result is reported in the following format: Activity ± Counting Error ; Total Propagated Uncertainty.

NOTE: For fish, Jello is used for the spike matrix. For vegetation, Sawdust is used for the spike matrix.

Table A-3. In-house "blank" samples.

Lab Code	Sample Type	Sample Date	Analysis	Concentration pCi/L ^a		
				Teledyne Results (4.66 Sigma)		Acceptance Criteria (4.66 Sigma)
				LLD	Activity ^b	
SPM-204	Milk	Jan 1995	Co-60	<5.3	0.41 ± 3.48; 3.48	< 10.0
SPM-204	Milk	Jan 1995	Cs-134	<4.4	-0.07 ± 2.05; 2.05	< 10.0
SPM-204	Milk	Jan 1995	Cs-137	<4.3	1.32 ± 2.53; 2.54	< 10.0
SPM-204	Milk	Jan 1995	I-131	<0.5	-0.03 ± 0.22; 0.22	< 0.5
SPM-204	Milk	Jan 1995	Sr-89	<0.8	0.14 ± 1.08; 1.08	< 5.0
SPM-204	Milk	Jan 1995	Sr-90	N/A	1.46 ± 0.48; 0.50	< 1.0
Low level of Sr-90 concentration in milk (1-5 pCi/L) is not unusual.						
SPAP-283	Air Filter	Jan 1995	Co-60	<2.7	-0.36 ± 1.40; 1.40	< 10.0
SPAP-283	Air Filter	Jan 1995	Cs-134	<1.5	-0.67 ± 1.33; 1.33	< 10.0
SPAP-283	Air Filter	Jan 1995	Cs-137	<2.4	0.46 ± 1.33; 1.33	< 10.0
SPW-285	Water	Jan 1995	H-3	<165.0	-48.53 ± 84.76; 85.01	< 200.0
SPCH-287	Charcoal Canister	Jan 1995	I-131(g)	<2.3	-1.98 ± 3.12; 3.13	< 9.6
SPW-288	Water	Jan 1995	Co-60	<2.3	-0.11 ± 2.02; 2.02	< 10.0
SPW-288	Water	Jan 1995	Cs-134	<3.5	-0.19 ± 2.61; 2.61	< 10.0
SPW-288	Water	Jan 1995	Cs-137	<4.7	0.98 ± 2.54; 2.54	< 10.0
SPAP-409	Air Filter	Jan 1995	Gr. Beta	<0.5	0.02 ± 0.28; 0.28	< 3.2
SPVE-728	Vegetation	Jan 1995	I-131(g)	<12.0	2.33 ± 7.54; 7.55	< 20.0
SPW-957	Water	Feb 1995	Co-60	<3.7	-1.25 ± 3.02; 3.03	< 10.0
SPW-957	Water	Feb 1995	Cs-134	<5.2	0.76 ± 2.77; 2.77	< 10.0
SPW-957	Water	Feb 1995	Cs-137	<3.6	-1.38 ± 2.65; 2.66	< 10.0
SPW-1106	Water	Feb 1995	Ni-63	<12.0	0.25 ± 6.31; 6.31	< 20.0
SPW-3052	Water	Mar 1995	Gr. Alpha	<0.6	0.49 ± 0.43; 0.44	< 1.0
SPW-3052	Water	Mar 1995	Gr. Beta	<1.4	3.05 ± 0.98; 1.09	< 3.2
SPAP-2514	Air Filter	Apr 1995	Gr. Beta	<0.3	0.03 ± 0.25; 0.25	< 3.2
SPAP-2543	Air Filter	Apr 1995	Co-60	<4.4	0.39 ± 2.20; 2.20	< 10.0
SPAP-2543	Air Filter	Apr 1995	Cs-134	<1.9	0.05 ± 2.11; 2.11	< 10.0
SPAP-2543	Air Filter	Apr 1995	Cs-137	<1.1	-1.24 ± 1.83; 1.83	< 10.0
SPW-2545	Water	Apr 1995	H-3	<169	97.76 ± 88.37; 89.36	< 200.0
SPW-2651	Water	Apr 1995	Co-60	<3.17	-1.08 ± 2.45; 2.45	< 10.0
SPW-2651	Water	Apr 1995	Cs-134	<3.32	0.29 ± 2.57; 2.57	< 10.0
SPW-2651	Water	Apr 1995	Cs-137	<3.56	-0.92 ± 2.64; 2.64	< 10.0
SPMI-2987	Milk	Apr 1995	Cs-134	<3.4	0.37 ± 1.89; 1.89	< 10.0
SPMI-2987	Milk	Apr 1995	Cs-137	<3.3	1.29 ± 1.75; 1.76	< 10.0
SPMI-2987	Milk	Apr 1995	Sr-89	<0.4	0.06 ± 0.62; 0.62	< 5.0

Table A-3. In-house "blank" samples.

Lab Code	Sample Type	Sample Date	Analysis	Concentration pCi/L ^a		
				Teledyne Results (4.66 Sigma)		Acceptance Criteria (4.66 Sigma)
				LLD	Activity ^b	
SPMI-2987	Milk	Apr 1995	Sr-90	N/A	1.47 ± 0.38; 0.40	< 1.0
Low level of Sr-90 concentration in milk (1-5 pCi/L) is not unusual.						
SPW-3052	Water	Apr 1995	Gr. Alpha	< 0.7	0.23 ± 0.47; 0.47	< 1.0
SPW-3052	Water	Apr 1995	Gr. Beta	< 1.7	-0.02 ± 1.09; 1.09	< 3.2
SPW-3590	Water	May 1995	Fe-55	< 602.0	0.00 ± 365.40; 365.40	< 1000.0
SPF-3709	Fish	May 1995	Co-60	< 8.4	2.21 ± 5.97; 5.98	< 10.0
SPF-3709	Fish	May 1995	Cs-134	< 1.3	6.79 ± 8.55; 8.60	< 10.0
SPF-3709	Fish	May 1995	Cs-137	< 1.3	3.61 ± 7.81; 7.83	< 10.0
SPSO-5131	Soil	May 1995	Cs-134	< 0.034	0.01 ± 0.01; 0.01	< 10.0
SPSO-5131	Soil	May 1995	Cs-137	< 0.012	0.00 ± 0.01; 0.01	< 10.0
SPCH-5975	Charcoal Canister	Jun 1995	I-131(g)	< 3.0	-0.71 ± 2.68; 2.69	< 9.6
SPVE-6007	Vegetation	Jun 1995	I-131(g)	< 0.009	0.00 ± 0.01; 0.01	< 20.0
SPW-6011	Water	Jun 1995	I-131	< 0.4	-0.03 ± 0.19; 0.19	< 0.5
SPVE-7191	Vegetation	Jul 1995	I-131(g)	< 0.005	-0.00 ± 0.00; 0.00	< 20.0
SPMI-7526	Milk	Jul 1995	Co-60	< 5.8	1.19 ± 3.34; 3.34	< 10.0
SPMI-7526	Milk	Jul 1995	Cs-134	< 5.1	0.48 ± 2.76; 2.76	< 10.0
SPMI-7526	Milk	Jul 1995	Cs-137	< 3.7	0.98 ± 2.39; 2.39	< 10.0
SPMI-7526	Milk	Jul 1995	I-131	< 0.5	0.00 ± 0.23; 0.23	< 0.5
SPMI-7526	Milk	Jul 1995	Sr-89	< 0.6	-0.19 ± 0.82; 0.82	< 5.0
SPMI-7526	Milk	Jul 1995	Sr-90	N/A	1.35 ± 0.36; 0.39	< 1.0
Low level of Sr-90 concentration in milk (1-5 pCi/L) is not unusual.						
SPAP-7556	Air Filter	Jul 1995	Gr. Beta	< 1.0	0.06 ± 0.55; 0.55	< 3.2
SPAP-7558	Air Filter	Jul 1995	Co-60	< 4.2	0.39 ± 3.06; 3.06	< 10.0
SPAP-7558	Air Filter	Jul 1995	Co-60	< 4.2	0.04 ± 3.07; 3.07	< 10.0
SPAP-7558	Air Filter	Jul 1995	Cs-134	< 3.0	-1.23 ± 2.45; 2.45	< 10.0
SPAP-7558	Air Filter	Jul 1995	Cs-137	< 3.5	1.18 ± 2.04; 2.04	< 10.0
SPW-7570	Water	Jul 1995	H-3	< 164	51.58 ± 83.71; 84.01	< 200.0
SPW-8180	Water	Jul 1995	Fe-55	< 0.4	0.00 ± 0.27; 0.27	< 1000.0
SPW-8931	Water	Aug 1995	Ra-228	< 1.0	0.58 ± 0.61; 0.61	< 1.0
SPW-9982	Water	Sep 1995	Sr-89	< 0.8	0.52 ± 0.76; 0.76	< 5.0
SPW-9982	Water	Sep 1995	Sr-90	< 0.4	0.21 ± 0.21; 0.22	< 1.0
SPMI-10920	Milk	Oct 1995	Co-60	< 3.8	-0.45 ± 5.05; 5.05	< 10.0
SPMI-10920	Milk	Oct 1995	Cs-134	< 3.5	-2.79 ± 4.35; 4.37	< 10.0
SPMI-10920	Milk	Oct 1995	Cs-137	< 6.0	1.55 ± 4.13; 4.14	< 10.0

Table A-3. In-house "blank" samples.

Lab Code	Sample Type	Sample Date	Analysis	Concentration pCi/L ^a		Acceptance Criteria (4.66 Sigma)
				Teledyne Results (4.66 Sigma)		
				LLD	Activity ^b	
SPMI-10920	Milk	Oct 1995	I-131	<0.4	0.10 ± 0.19; 0.19	< 0.5
SPF-10922	Fish	Oct 1995	Co-60	<5.4	5.74 ± 4.70; 4.76	< 10.0
SPF-10922	Fish	Oct 1995	Cs-134	<8.9	2.47 ± 5.44; 5.45	< 10.0
SPF-10922	Fish	Oct 1995	Cs-137	<5.4	-2.44 ± 5.08; 5.09	< 10.0
SPSO-11225	Soil	Oct 1995	Cs-134	<0.034	0.00 ± 0.02; 0.02	< 10.0
SPSO-11225	Soil	Oct 1995	Cs-137	<0.019	-0.00 ± 0.01; 0.01	< 10.0
SPCH-11238	Charcoal Canister	Oct 1995	I-131(g)	<1.9	-0.00 ± 0.01; 0.01	< 9.6
SPAP-10968	Air Filter	Nov 1995	Gr. Beta	<0.4	0.61 ± 0.26; 0.26	< 3.2
SPW-12080	Water	Nov 1995	H-3	<149	23.01 ± 74.94; 75.01	< 200.0
SPW-12082	Water	Nov 1995	Co-60	<2.1	0.62 ± 1.13; 1.13	< 10.0
SPW-12082	Water	Nov 1995	Cs-134	<1.9	0.02 ± 1.28; 1.28	< 10.0
SPW-12082	Water	Nov 1995	Cs-137	<2.4	1.53 ± 1.22; 1.24	< 10.0
SPW-12082	Water	Nov 1995	Gr. Alpha	<0.6	0.19 ± 0.43; 0.43	< 1.0
SPW-12082	Water	Nov 1995	Gr. Beta	<1.7	0.06 ± 1.11; 1.11	< 3.2
SPW-12808	Water	Dec 1995	Gr. Alpha	<1.0	0.08 ± 0.49; 0.49	< 1.0
SPW-12808	Water	Dec 1995	Gr. Beta	<1.6	-0.53 ± 0.78; 0.78	< 3.2
SPCH-608	Charcoal Canister	Feb 1996	I-131(g)	<2.7	-0.10 ± 1.63; 1.63	< 9.6

^a Liquid sample results are reported in pCi/Liter, air filter sample results are in pCi/filter, charcoal sample results are in pCi/charcoal, and solid sample results are in pCi/kilogram.

^b The activity reported is the net activity result.

Table A-4. In-house "duplicate" program.

Date Collected	Analysis	Lab Codes ^b	Accepted ^c Rejected	Concentration in pCi/L ^a	
				First Result	Second Result
Jan, 1995	Gr. Beta	Ww-62, 63	A	1.4±0.4;0.5	1.3±0.4;0.4
Jan, 1995	H-3	Ww-62, 63	A	22.6±80.9;80.9	18.8±80.7;80.8
Jan, 1995	Gr. Alpha	Ww-41, 42	A	5.1±2.5;2.6	2.5±2.2;2.2
Jan, 1995	Gr. Beta	Ww-41, 42	A	4.7±0.8;1.1	5.0±0.9;1.2
Jan, 1995	H-3	Ww-41, 42	A	30.1±81.2;81.3	-47.0±77.8;78.0
Jan, 1995	K-40	Ww-41, 42	A	1.4±0.2;0.2	1.7±0.3;0.3
Jan, 1995	Sr-89	Ww-41, 42	A	-0.3±0.6;0.6	-0.1±0.5;0.5
Jan, 1995	Sr-90	Ww-41, 42	A	0.2±0.3;0.3	0.1±0.2;0.2
Jan, 1995	Be-7	Cf-20, 21	A	0.4±0.1;0.1	0.5±0.1;0.1
Jan, 1995	Gr. Beta	Cf-20, 21	A	2.9±0.1;0.3	3.0±0.1;0.3
Jan, 1995	K-40	Cf-20, 21	A	4.1±0.3;0.5	3.8±0.3;0.5
Jan, 1995	Sr-89	Cf-20, 21	A	0.0±0.0;0.0	0.0±0.0;0.0
Jan, 1995	Sr-90	Cf-20, 21	A	0.0±0.0;0.0	0.0±0.0;0.0
Jan, 1995	Gr. Beta	Cw-105, 106	A	5.4±1.0;1.1	6.2±1.0;1.2
Jan, 1995	Gr. Beta	Cw-105, 106	A	0.0±0.4;0.4	0.1±0.4;0.4
Jan, 1995	Co-60	Mi-83, 84	A	-0.3±2.5;2.5	0.7±2.2;2.2
Jan, 1995	Cs-137	Mi-83, 84	A	-1.1±2.3;2.3	0.1±1.9;1.9
Jan, 1995	I-131(G)	Mi-83, 84	A	-1.9±3.2;3.2	1.5±2.5;2.5
Jan, 1995	I-131	Mi-187, 188	A	0.1±0.3;0.3	0.3±0.4;0.4
Jan, 1995	K-40	Mi-187, 188	A	1,573.0±138.0;254.6	1,426.0±177.0;262.6
Jan, 1995	H-3	Sw-213, 214	A	5,939.6±241.2;843.0	6,091.2±232.8;860.5
Jan, 1995	H-3	Ww-240, 241	A	39.8±80.3;80.5	10.0±78.9;79.0
Jan, 1995	H-3	Ww-316, 317	A	17,618.0±377.0;2,425.5	17,390.0±381.0;2,395.5
Jan, 1995	Co-60	Mi-295, 296	A	-1.1±2.4;2.4	0.3±2.8;2.8
Jan, 1995	Cs-134	Mi-295, 296	A	-0.6±1.8;1.8	0.8±2.4;2.4
Jan, 1995	Cs-137	Mi-295, 296	A	0.5±1.8;1.8	1.3±2.7;2.7
Jan, 1995	I-131	Mi-295, 296	A	0.1±0.3;0.3	0.2±0.3;0.3
Jan, 1995	I-131(g)	Mi-295, 296	A	-0.4±2.4;2.4	-0.0±4.3;4.3
Jan, 1995	K-40	Mi-295, 296	A	1,449.1±91.2;217.2	1,311.8±108.0;208.5
Jan, 1995	La-140	Mi-295, 296	A	0.6±1.7;1.7	-1.2±2.5;2.5
Jan, 1995	Sr-89	Mi-295, 296	A	0.2±0.8;0.8	0.2±0.9;0.9
Jan, 1995	Sr-90	Mi-295, 296	A	1.4±0.4;0.4	1.6±0.4;0.5
Jan, 1995	Gr. Beta	Lw-609, 610	A	2.6±0.7;0.8	1.7±0.7;0.7
Jan, 1995	Co-60	Lw-344, 345	A	-0.2±1.9;1.9	1.5±3.1;3.1
Jan, 1995	Cs-137	Lw-344, 345	A	0.4±1.9;1.9	-0.2±3.0;3.0
Jan, 1995	Gr. Beta	Lw-344, 345	A	3.3±0.9;1.1	3.4±0.9;1.1

Table A-4 In-house "duplicate" program.

Date Collected	Analysis	Lab Codes ^b	Accepted ^c Rejected	Concentration in pCi/L ^a	
				First Result	Second Result
Jan, 1995	I-131	Mi-374, 375	A	-0.1±0.2;0.2	-0.1±0.3;0.3
Jan, 1995	K-40	Mi-374, 375	A	1,250.0±150.0;226.7	1,286.5±141.0;224.7
Jan, 1995	Gr. Beta	Sw-463, 464	A	1.9±0.6;0.7	1.9±0.6;0.7
Jan, 1995	H-3	Sw-463, 464	A	35.6±80.3;80.5	7.5±79.0;79.0
Jan, 1995	Gr. Alpha	Wwu-860, 861	A	0.3±0.6;0.6	0.2±0.3;0.3
Jan, 1995	Gr. Beta	Wwu-860, 861	A	0.8±1.3;1.3	1.8±1.4;1.4
Jan, 1995	K-40	Wwu-860, 861	A	61.8±32.9;33.5	71.0±36.2;36.9
Jan, 1995	Co-60	Sw-586, 587	A	-2.2±2.3;2.3	1.9±2.8;2.8
Jan, 1995	Cs-137	Sw-586, 587	A	0.6±2.3;2.3	1.5±2.9;2.9
Jan, 1995	H-3	Ww-547, 548	A	602.6±102.9;131.6	619.6±103.6;133.5
Jan, 1995	Gr. Beta	Swt-715, 716	A	2.3±0.6;0.7	2.3±0.5;0.6
Feb, 1995	Gr. Beta	Sw-694, 695	A	3.9±0.7;1.0	4.2±0.8;1.0
Feb, 1995	H-3	Ww-736, 737	A	9,951.9±284.3;1,383.0	10,200.8±287.5;1,416.8
Feb, 1995	H-3	Ww-763, 764	A	584.4±101.1;128.6	707.1±105.5;142.8
Feb, 1995	I-131	Mi-881, 882	A	0.2±0.3;0.3	0.2±0.3;0.3
Feb, 1995	K-40	Mi-881, 882	A	1,340.4±164.0;245.2	1,492.0±101.0;226.7
Feb, 1995	Co-60	Mi-838, 839	A	1.0±2.7;2.7	-0.5±3.8;3.8
Feb, 1995	Cs-134	Mi-838, 839	A	-0.1±2.3;2.3	-1.4±3.1;3.1
Feb, 1995	Cs-137	Mi-838, 839	A	-0.4±2.6;2.6	-0.4±3.1;3.1
Feb, 1995	I-131	Mi-838, 839	A	0.1±0.2;0.2	0.1±0.2;0.2
Feb, 1995	I-131(g)	Mi-838, 839	A	-0.3±2.6;2.6	-0.6±3.2;3.2
Feb, 1995	K-40	Mi-838, 839	A	1,298.6±99.4;202.7	1,232.5±125.0;209.1
Feb, 1995	Sr-89	Mi-838, 839	A	0.5±0.6;0.6	0.5±0.6;0.6
Feb, 1995	Sr-90	Mi-838, 839	A	0.8±0.3;0.3	0.8±0.3;0.3
Feb, 1995	I-131	Mi-937, 938	A	-0.0±0.2;0.2	-0.0±0.2;0.2
Feb, 1995	K-40	Mi-937, 938	A	1,451.8±69.6;209.4	1,456.6±141.0;243.2
Feb, 1995	H-3	Sw-904, 905	A	640.3±104.6;136.1	597.4±103.0;131.2
Feb, 1995	I-131	Mi-1216, 1217	A	0.3±0.3;0.3	0.1±0.3;0.3
Feb, 1995	K-40	Mi-1216, 1217	A	1,583.0±131.0;252.0	1,493.6±174.0;267.5
Feb, 1995	H-3	Sw-1237, 1238	A	55.4±97.4;97.7	4.9±95.4;95.4
Feb, 1995	H-3	Sw-1264, 1265	A	67.1±81.2;81.7	109.3±83.1;84.5
Feb, 1995	Be-7	G-1343, 1344	A	11.4±0.3;1.2	11.9±0.3;1.2
Feb, 1995	K-40	G-1343, 1344	A	3.0±0.2;0.4	3.0±0.2;0.4
Feb, 1995	Co-60	Sw-1494, 1495	A	-2.2±4.1;4.1	0.1±3.4;3.4
Feb, 1995	Cs-137	Sw-1494, 1495	A	3.5±3.7;3.7	0.2±3.6;3.6
Feb, 1995	H-3	Sw-1367, 1368	A	560.3±103.1;128.2	606.1±104.8;133.3

Table A-4. In-house "duplicate" program.

Date Collected	Analysis	Lab Codes ^b	Accepted ^c Rejected	Concentration in pCi/L ^a	
				First Result	Second Result
Feb, 1995	H-3	Ww-1394, 1395	A	47.9±80.2;80.4	-24.9±76.6;76.7
Feb, 1995	Gr. Beta	Swt-1515, 1516	A	2.4±0.5;0.6	1.7±0.5;0.6
Feb, 1995	H-3	Ww-1536, 1537	A	2,874.3±167.5;425.3	2,924.1±168.6;431.9
Mar, 1995	H-3	Ww-1563, 1564	A	33.5±82.7;82.8	39.5±83.0;83.1
Mar, 1995	Co-60	Ww-1618, 1619	A	2.8±1.5;1.6	2.2±4.6;4.6
Mar, 1995	Cs-137	Ww-1618, 1619	A	-0.9±1.7;1.7	-2.5±3.2;3.2
Mar, 1995	H-3	Ww-1618, 1619	A	4,333.0±204.0;623.6	4,457.0±206.0;640.2
Mar, 1995	Co-60	Mi-1663, 1664	A	2.0±3.2;3.3	-1.5±2.7;2.7
Mar, 1995	Cs-134	Mi-1663, 1664	A	0.2±2.8;2.8	-1.1±2.1;2.1
Mar, 1995	Cs-137	Mi-1663, 1664	A	-0.1±2.7;2.7	0.9±2.4;2.4
Mar, 1995	I-131	Mi-1663, 1664	A	0.1±0.3;0.3	0.2±0.3;0.3
Mar, 1995	I-131(g)	Mi-1663, 1664	A	-0.4±3.7;3.7	0.1±3.4;3.4
Mar, 1995	K-40	Mi-1663, 1664	A	1,592.1±124.0;249.5	1,555.6±118.0;242.2
Mar, 1995	La-140	Mi-1663, 1664	A	-1.7±3.1;3.1	-0.2±2.7;2.7
Mar, 1995	Sr-89	Mi-1663, 1664	A	0.6±0.7;0.7	0.6±0.7;0.7
Mar, 1995	Sr-90	Mi-1663, 1664	A	1.4±0.4;0.4	1.5±0.5;0.5
Mar, 1995	Gr. Beta	Ww-1684, 1685	A	4.9±0.7;1.1	5.0±0.7;1.1
Mar, 1995	H-3	Ww-1684, 1685	A	81.7±84.9;85.6	85.7±85.1;85.9
Mar, 1995	Co-58	Lw-1707, 1708	A	0.4±3.0;3.0	0.0±2.9;2.9
Mar, 1995	Co-60	Lw-1707, 1708	A	1.1±2.9;2.9	1.5±2.7;2.7
Mar, 1995	Cs-134	Lw-1707, 1708	A	-1.9±3.1;3.1	-1.5±2.8;2.8
Mar, 1995	Cs-137	Lw-1707, 1708	A	2.6±3.0;3.0	-1.4±2.5;2.5
Mar, 1995	Fe-59	Lw-1707, 1708	A	5.5±6.2;6.2	-6.7±6.2;6.2
Mar, 1995	Gr. Beta	Lw-1707, 1708	A	2.0±0.5;0.6	2.1±0.5;0.6
Mar, 1995	I-131	Lw-1707, 1708	A	0.2±0.3;0.3	-0.1±0.3;0.3
Mar, 1995	I-131(g)	Lw-1707, 1708	A	-0.7±6.7;6.7	-0.6±6.2;6.2
Mar, 1995	K-40	Lw-1707, 1708	A	79.3±42.8;43.5	75.3±39.2;39.9
Mar, 1995	La-140	Lw-1707, 1708	A	-3.6±5.1;5.1	1.3±4.6;4.6
Mar, 1995	Mn-54	Lw-1707, 1708	A	-1.9±3.1;3.1	0.8±2.5;2.5
Mar, 1995	Ru-103	Lw-1707, 1708	A	-0.1±3.3;3.3	-0.8±3.0;3.0
Mar, 1995	Zn-65	Lw-1707, 1708	A	-2.7±6.5;6.5	-1.7±5.8;5.8
Mar, 1995	Zr-Nb-95	Lw-1707, 1708	A	-0.3±3.1;3.1	-3.2±2.7;2.7
Mar, 1995	H-3	Sw-1762, 1763	A	104.4±89.4;90.5	92.2±88.8;89.7
Mar, 1995	Cs-137	So-1861, 1862	A	0.3±0.0;0.0	0.2±0.0;0.0
Mar, 1995	K-40	So-1861, 1862	A	11.7±0.6;1.3	11.3±0.5;1.2
Mar, 1995	Ra-226	So-1861, 1862	A	1.7±0.4;0.4	1.5±0.3;0.3

Table A-4. In-house "duplicate" program.

Date Collected	Analysis	Lab Codes ^b	Accepted ^c Rejected	Concentration in pCi/L ^a	
				First Result	Second Result
Mar, 1995	H-3	Sw-1919, 1920	A	-9.1±85.2;85.2	66.7±88.9;89.3
Mar, 1995	H-3	Sw-1919, 1920	A	-9.1±85.2;85.2	66.7±88.9;89.3
Mar, 1995	Gr. Alpha	Wwu-2031, 2032	A	2.0±2.3;2.3	3.0±2.4;2.5
Mar, 1995	Gr. Beta	Wwu-2031, 2032	A	1.3±1.9;1.9	2.1±2.0;2.0
Mar, 1995	Gr. Beta	Cw-1997, 1998	A	2.7±1.0;1.1	2.3±1.4;1.4
Mar, 1995	Gr. Beta	Cw-1997, 1998	A	-0.5±1.0;1.0	0.6±1.1;1.1
Mar, 1995	Co-60	Ap-2784, 2785	A	-0.0±0.0;0.0	-0.0±0.0;0.0
Mar, 1995	Cs-137	Ap-2784, 2785	A	-0.0±0.0;0.0	0.0±0.0;0.0
Mar, 1995	I-131	Mi-2083, 2084	A	0.0±0.2;0.2	0.0±0.2;0.2
Mar, 1995	K-40	Mi-2083, 2084	A	1,273.9±69.7;186.7	1,328.9±59.8;190.4
Mar, 1995	Sr-90	Mi-2083, 2084	A	1.6±0.5;0.5	1.8±0.6;0.6
Mar, 1995	Gr. Beta	Sw-2104, 2105	A	1.7±0.5;0.6	1.7±0.6;0.6
Mar, 1995	H-3	Sw-2200, 2201	A	33.8±85.6;85.8	54.0±86.6;86.9
Mar, 1995	Co-60	Sw-2355, 2356	A	0.6±1.5;1.5	0.9±1.6;1.6
Mar, 1995	Cs-137	Sw-2355, 2356	A	2.2±1.5;1.6	0.1±1.9;1.9
Mar, 1995	Sr-89	Ap-2453, 2454	A	0.0±0.0;0.0	-0.0±0.0;0.0
Mar, 1995	Sr-90	Ap-2453, 2454	A	0.0±0.0;0.0	0.0±0.0;0.0
Mar, 1995	Co-60	Ap-2805, 2806	A	-0.0±0.0;0.0	0.0±0.0;0.0
Mar, 1995	Cs-137	Ap-2805, 2806	A	0.0±0.0;0.0	0.0±0.0;0.0
Mar, 1995	K-40	Sw-2221, 2222	A	149.7±74.4;75.9	119.4±46.7;48.2
Mar, 1995	H-3	Pw-2248, 2249	A	154.6±91.1;93.5	164.8±91.5;94.2
Mar, 1995	Co-60	Pw-2271, 2272	A	-0.5±2.0;2.0	-1.2±2.9;2.9
Mar, 1995	Cs-137	Pw-2271, 2272	A	1.0±2.1;2.1	0.9±3.5;3.5
Apr, 1995	Co-60	Mi-2149, 2150	A	-1.2±2.2;2.2	0.7±2.7;2.7
Apr, 1995	Cs-137	Mi-2149, 2150	A	0.2±2.0;2.0	2.3±2.2;2.2
Apr, 1995	I-131(G)	Mi-2149, 2150	A	0.1±2.2;2.2	0.3±2.5;2.5
Apr, 1995	Gr. Beta	Ww-2313, 2314	A	0.6±0.5;0.5	1.0±0.5;0.5
Apr, 1995	Gr. Beta	Cw-2401, 2402	A	1.7±1.3;1.3	3.5±1.5;1.5
Apr, 1995	Gr. Beta	Cw-2401, 2402	A	0.0±1.1;1.1	0.5±1.1;1.1
Apr, 1995	K-40	Sl-2567, 2568	A	1.4±0.4;0.5	1.7±0.4;0.4
Apr, 1995	H-3	Ww-2432, 2433	A	-21.6±82.7;82.8	2.7±83.9;83.9
Apr, 1995	Gr. Beta	Ww-2659, 2660	A	0.5±0.6;0.6	0.4±0.4;0.4
Apr, 1995	H-3	Ww-2659, 2660	A	38.4±87.5;87.6	133.4±91.7;93.5
Apr, 1995	I-131	Mi-2713, 2714	A	0.4±0.5;0.5	0.2±0.2;0.2
Apr, 1995	K-40	Mi-2713, 2714	A	1,420.9±137.0;236.9	1,420.0±137.0;236.8
Apr, 1995	Gr. Beta	Cw-2739, 2740	A	13.8±2.1;3.0	14.3±2.1;3.0

Table A-4. In-house "duplicate" program.

Date Collected	Analysis	Lab Codes ^b	Accepted ^c Rejected	Concentration in pCi/L ^a	
				First Result	Second Result
Apr, 1995	Gr. Beta	Cw-2739, 2740	A	5.1±1.5;1.6	2.3±1.3;1.4
Apr, 1995	H-3	Sw-2686, 2687	A	52.7±87.0;87.3	2.0±84.6;84.6
Apr, 1995	Gr. Alpha	Ww-3447, 3448	A	-0.3±1.7;1.7	-1.5±1.6;1.7
Apr, 1995	Gr. Beta	Ww-3447, 3448	A	1.2±1.7;1.7	3.2±1.8;1.9
Apr, 1995	Gr. Beta	Cw-2835, 2836	A	2.0±1.4;1.4	2.7±1.5;1.5
Apr, 1995	Gr. Beta	Cw-2835, 2836	A	0.2±1.2;1.2	0.8±1.2;1.2
Apr, 1995	Gr. Beta	Cw-2918, 2919	A	5.3±1.6;1.8	4.3±1.6;1.7
Apr, 1995	Gr. Beta	Cw-2918, 2919	A	2.1±1.3;1.4	0.8±1.2;1.2
Apr, 1995	K-40	F-3552, 3553	A	3.1±0.4;0.5	2.9±0.2;0.4
Apr, 1995	Sr-89	F-3552, 3553	A	-0.0±0.0;0.0	0.0±0.0;0.0
Apr, 1995	Sr-90	F-3552, 3553	A	0.0±0.0;0.0	0.0±0.0;0.0
Apr, 1995	Gr. Beta	Swt-3343, 3344	A	2.3±0.5;0.6	3.0±0.5;0.7
Apr, 1995	K-40	G-3133, 3134	A	6.5±0.2;0.7	6.1±0.3;0.7
Apr, 1995	H-3	Sw-3403, 3404	A	159.6±90.6;93.2	72.7±86.6;87.2
Apr, 1995	H-3	Ww-3424, 3425	A	442.5±116.7;131.3	430.4±116.3;130.2
Apr, 1995	Gr. Beta	Lw-3682, 3683	A	2.1±0.6;0.7	1.5±0.6;0.6
Apr, 1995	Gr. Beta	Lw-3682, 3683	A	2.1±0.7;0.7	1.5±0.5;0.6
Apr, 1995	H-3	Lw-3682, 3683	A	139.9±91.1;93.1	75.0±88.2;88.8
Apr, 1995	H-3	Lw-3682, 3683	A	75.0±88.2;88.8	139.9±91.1;93.1
May, 1995	Cs-137	So-3531, 3532	A	0.2±0.0;0.0	0.1±0.0;0.0
May, 1995	Gr. Alpha	So-3531, 3532	A	6.9±3.6;3.6	9.2±3.9;4.0
May, 1995	Gr. Beta	So-3531, 3532	A	17.1±3.1;3.5	18.8±3.1;3.7
May, 1995	K-40	So-3531, 3532	A	25.0±0.8;2.6	23.8±0.7;2.5
May, 1995	Sr-89	So-3531, 3532	A	-0.0±0.0;0.0	0.0±0.0;0.0
May, 1995	Sr-90	So-3531, 3532	A	0.0±0.0;0.0	0.0±0.0;0.0
May, 1995	Co-60	Ww-3577, 3578	A	-0.3±2.2;2.2	0.5±2.6;2.6
May, 1995	Cs-137	Ww-3577, 3578	A	1.2±2.2;2.2	-1.6±2.9;2.9
May, 1995	H-3	Ww-3577, 3578	A	33.6±91.0;91.1	58.8±92.0;92.4
May, 1995	I-131	Mi-3598, 3599	A	0.2±0.4;0.4	0.2±0.3;0.3
May, 1995	K-40	Mi-3598, 3599	A	1,349.0±112.0;214.9	1,297.4±151.0;232.2
May, 1995	Co-60	Mi-3809, 3810	A	-0.4±3.0;3.0	0.2±3.0;3.0
May, 1995	Cs-137	Mi-3809, 3810	A	0.9±2.5;2.5	0.1±2.4;2.4
May, 1995	I-131	Mi-3809, 3810	A	0.1±0.2;0.2	0.2±0.2;0.2
May, 1995	Gr. Beta	Cw-3838, 3839	A	2.0±1.4;1.4	3.4±1.5;1.6
May, 1995	Gr. Beta	Cw-3838, 3839	A	-0.7±1.2;1.2	-1.1±1.2;1.2
May, 1995	Co-60	F-4309, 4310	A	-0.0±0.0;0.0	-0.0±0.0;0.0

Table A-4. In-house "duplicate" program.

Date Collected	Analysis	Lab Codes ^b	Accepted ^c Rejected	Concentration in pCi/L ^a	
				First Result	Second Result
May, 1995	Cs-137	F-4309, 4310	A	0.0±0.0;0.0	0.0±0.0;0.0
May, 1995	Co-60	F-4288, 4289	A	0.0±0.0;0.0	0.0±0.0;0.0
May, 1995	Cs-137	F-4288, 4289	A	0.0±0.0;0.0	0.0±0.0;0.0
May, 1995	Co-60	F-4330, 4331	A	0.0±0.0;0.0	0.0±0.0;0.0
May, 1995	Cs-137	F-4330, 4331	A	0.0±0.0;0.0	-0.0±0.0;0.0
May, 1995	Co-60	Mi-4377, 4378	A	0.9±1.7;1.7	2.2±2.7;2.7
May, 1995	Cs-134	Mi-4377, 4378	A	0.8±1.5;1.5	-0.2±2.3;2.3
May, 1995	Cs-137	Mi-4377, 4378	A	0.9±1.4;1.4	0.6±2.1;2.1
May, 1995	I-131	Mi-4377, 4378	A	-0.1±0.1;0.1	-0.0±0.1;0.1
May, 1995	I-131(g)	Mi-4377, 4378	A	0.2±1.3;1.3	-1.1±2.6;2.6
May, 1995	K-40	Mi-4377, 4378	A	1,385.1±63.2;198.7	1,344.3±92.5;204.9
May, 1995	Sr-89	Mi-4377, 4378	A	-0.0±0.7;0.7	0.0±1.1;1.1
May, 1995	Sr-90	Mi-4377, 4378	A	1.3±0.4;0.5	1.3±0.6;0.7
May, 1995	I-131	Mi-4544, 4545	A	0.1±0.3;0.3	0.1±0.2;0.2
May, 1995	K-40	Mi-4544, 4545	A	1,410.0±72.3;204.9	1,359.0±65.7;196.2
May, 1995	Sr-90	Mi-4544, 4545	A	2.1±0.5;0.6	1.3±0.4;0.4
May, 1995	Be-7	G-4604, 4605	A	1.9±0.4;0.4	1.7±0.4;0.4
May, 1995	Co-60	G-4604, 4605	A	-0.0±0.0;0.0	-0.0±0.0;0.0
May, 1995	Cs-134	G-4604, 4605	A	0.0±0.0;0.0	0.0±0.0;0.0
May, 1995	Cs-137	G-4604, 4605	A	0.1±0.0;0.0	0.1±0.0;0.0
May, 1995	Gr. Beta	G-4604, 4605	A	4.0±0.1;0.4	4.0±0.2;0.4
May, 1995	I-131(g)	G-4604, 4605	A	0.0±0.0;0.0	0.0±0.0;0.0
May, 1995	K-40	G-4604, 4605	A	5.1±0.7;0.8	5.1±0.7;0.9
May, 1995	Gr. Beta	Cw-4575, 4576	A	2.0±1.2;1.2	2.8±1.3;1.3
May, 1995	Gr. Beta	Cw-4575, 4576	A	-0.2±1.0;1.0	-0.6±1.0;1.0
May, 1995	I-131	Mi-4695, 4696	A	0.1±0.2;0.2	0.1±0.2;0.2
May, 1995	K-40	Mi-4695, 4696	A	1,568.8±114.0;241.9	1,573.1±50.1;219.7
May, 1995	Sr-89	Mi-4716, 4717	A	-0.3±0.8;0.8	-0.0±0.9;0.9
May, 1995	Sr-90	Mi-4716, 4717	A	1.2±0.4;0.5	1.6±0.4;0.5
May, 1995	Be-7	G-4814, 4815	A	0.6±0.3;0.3	0.6±0.2;0.2
May, 1995	K-40	G-4814, 4815	A	5.8±0.6;0.8	5.1±0.5;0.7
May, 1995	H-3	Ww-4784, 4785	A	18,665.3±390.2;2,568.3	18,274.9±386.3;2,515.2
May, 1995	H-3	Sw-4759, 4760	A	3,679.8±213.9;544.3	3,817.8±217.0;562.8
May, 1995	Cs-137	So-5178, 5179	A	0.8±0.1;0.1	0.8±0.1;0.1
May, 1995	K-40	So-5178, 5179	A	19.9±1.1;2.3	22.1±1.2;2.5
May, 1995	Gr. Beta	Swu-5663, 5664	A	2.5±0.6;0.7	2.5±0.6;0.7

Table A-4. In-house "duplicate" program.

Date Collected	Analysis	Lab Codes ^b	Accepted ^c Rejected	Concentration in pCi/L ^a	
				First Result	Second Result
May, 1995	H-3	Swu-5663, 5664	A	867.2 ± 104.9; 157.8	865.5 ± 104.9; 157.6
May, 1995	Gr. Beta	Bs - 6983, 6984	A	7.4 ± 1.2; 1.4	8.0 ± 1.4; 1.6
May, 1995	Gr. Beta	Bs - 6983, 6984	A	7.4 ± 1.2; 1.4	8.0 ± 1.4; 1.6
May, 1995	K-40	Bs - 6983, 6984	A	8.3 ± 0.3; 0.9	8.5 ± 0.1; 0.9
May, 1995	K-40	Bs - 6983, 6984	A	8.3 ± 0.3; 0.9	8.5 ± 0.1; 0.9
May, 1995	Cs-137	Bs-6983, 6984	A	0.0 ± 0.0; 0.0	0.0 ± 0.0; 0.0
May, 1995	Gr. Beta	Bs-6983, 6984	A	7.4 ± 1.2; 1.4	8.0 ± 1.4; 1.6
May, 1995	K-40	Bs-6983, 6984	A	8.3 ± 0.3; 0.9	8.5 ± 0.1; 0.9
May, 1995	Cs-137	Bs - 5494, 5495	A	0.6 ± 0.0; 0.1	0.6 ± 0.0; 0.1
May, 1995	Cs-137	Bs - 5494, 5495	A	0.6 ± 0.0; 0.1	0.6 ± 0.0; 0.1
May, 1995	K-40	Bs - 5494, 5495	A	21.1 ± 0.7; 2.2	21.3 ± 0.7; 2.2
May, 1995	K-40	Bs - 5494, 5495	A	21.1 ± 0.7; 2.2	21.3 ± 0.7; 2.2
May, 1995	Cs-137	Bs-5494, 5495	A	0.6 ± 0.0; 0.1	0.6 ± 0.0; 0.1
May, 1995	K-40	Bs-5494, 5495	A	21.1 ± 0.7; 2.2	21.3 ± 0.7; 2.2
May, 1995	Co-60	F-5025, 5026	A	0.0 ± 0.0; 0.0	0.0 ± 0.0; 0.0
May, 1995	Cs-137	F-5025, 5026	A	-0.0 ± 0.0; 0.0	-0.0 ± 0.0; 0.0
May, 1995	K-40	F-5385, 5386	A	2.5 ± 0.3; 0.4	2.6 ± 0.4; 0.5
May, 1995	Co-60	F-5046, 5047	A	0.0 ± 0.0; 0.0	-0.0 ± 0.0; 0.0
May, 1995	Cs-137	F-5046, 5047	A	0.0 ± 0.0; 0.0	-0.0 ± 0.0; 0.0
May, 1995	H-3	Ww-5244, 5245	A	608.4 ± 96.3; 127.0	463.6 ± 91.1; 110.8
May, 1995	Co-60	Sw-6013, 6014	A	0.8 ± 2.2; 2.2	1.5 ± 3.0; 3.0
May, 1995	Cs-137	Sw-6013, 6014	A	-0.7 ± 2.3; 2.3	0.5 ± 2.3; 2.3
May, 1995	I-131	Mi-5620, 5621	A	0.2 ± 0.2; 0.2	0.0 ± 0.2; 0.2
May, 1995	K-40	Mi-5620, 5621	A	1,526.2 ± 119.0; 239.3	1,449.3 ± 162.0; 255.1
May, 1995	Gr. Alpha	Ww - 5642, 5643	A	2.3 ± 2.3; 2.3	2.3 ± 2.3; 2.3
May, 1995	Gr. Beta	Ww - 5642, 5643	A	2.3 ± 3.3; 3.3	2.3 ± 3.3; 3.3
May, 1995	K-40	Ww - 5642, 5643	A	94.4 ± 19.8; 21.9	59.0 ± 29.5; 30.1
May, 1995	Gr. Beta	Dw-5738, 5739	A	2.5 ± 1.2; 1.2	3.6 ± 1.2; 1.3
May, 1995	I-131	Dw-5738, 5739	A	-0.0 ± 0.2; 0.2	-0.0 ± 0.1; 0.1
May, 1995	Gr. Beta	Lw-6327, 6328	A	6.5 ± 1.0; 1.4	6.6 ± 1.0; 1.5
May, 1995	Sr-89	W-6398, 6399	A	15.1 ± 3.8; 4.1	18.1 ± 2.7; 3.3
May, 1995	Sr-90	W-6398, 6399	A	25.1 ± 1.9; 3.1	24.4 ± 1.3; 2.8
Jun, 1995	Gr. Beta	Ww-6184, 6185	A	6.0 ± 1.1; 1.4	7.5 ± 1.4; 1.8
Jun, 1995	H-3	Ww-6184, 6185	A	86.1 ± 78.3; 79.2	107.0 ± 79.3; 80.6
Jun, 1995	Co-60	Mi-5684, 5685	A	0.1 ± 3.0; 3.0	0.4 ± 4.6; 4.6
Jun, 1995	Cs-137	Mi-5684, 5685	A	1.8 ± 2.7; 2.7	-0.9 ± 3.2; 3.2

Table A-4. In-house "duplicate" program.

Date Collected	Analysis	Lab Codes ^b	Accepted ^c Rejected	Concentration in pCi/L ^a	
				First Result	Second Result
Jun, 1995	I-131	Mi-5684, 5685	A	0.1±0.1;0.1	-0.0±0.1;0.1
Jun, 1995	Gr. Beta	Cw-5713, 5714	A	3.1±1.4;1.5	3.3±1.4;1.5
Jun, 1995	Gr. Beta	Cw-5713, 5714	A	0.0±1.5;1.5	0.4±1.5;1.5
Jun, 1995	Co-60	Sl-5832, 5833	A	0.0±0.0;0.0	0.1±0.0;0.0
Jun, 1995	Cs-137	Sl-5832, 5833	A	0.1±0.0;0.0	0.0±0.0;0.0
Jun, 1995	Gr. Beta	Sl-5832, 5833	A	4.7±0.5;0.7	4.7±0.5;0.7
Jun, 1995	K-40	Sl-5832, 5833	A	2.9±0.3;0.4	2.4±0.3;0.4
Jun, 1995	Sr-89	Sl-5832, 5833	A	0.0±0.0;0.0	0.0±0.0;0.0
Jun, 1995	Sr-90	Sl-5832, 5833	A	0.0±0.0;0.0	0.0±0.0;0.0
Jun, 1995	Co-60	Ww-5992, 5993	A	0.4±1.2;1.2	0.9±2.7;2.7
Jun, 1995	Cs-137	Ww-5992, 5993	A	-1.4±1.4;1.4	-1.4±3.0;3.0
Jun, 1995	H-3	Ww-5992, 5993	A	67.0±76.2;76.7	94.0±77.3;78.4
Jun, 1995	Co-60	Sl-6205, 6206	A	0.0±0.0;0.0	0.0±0.0;0.0
Jun, 1995	Cs-134	Sl-6205, 6206	A	0.0±0.0;0.0	0.0±0.0;0.0
Jun, 1995	Cs-137	Sl-6205, 6206	A	0.0±0.0;0.0	0.0±0.0;0.0
Jun, 1995	Gr. Beta	Sl-6205, 6206	A	3.3±0.1;0.3	3.3±0.1;0.3
Jun, 1995	I-131(g)	Sl-6205, 6206	A	-0.0±0.0;0.0	-0.0±0.0;0.0
Jun, 1995	K-40	Sl-6205, 6206	A	3.3±0.3;0.5	3.3±0.4;0.5
Jun, 1995	H-3	Sw-6256, 6257	A	423.9±92.0;108.6	585.0±97.9;126.1
Jun, 1995	I-131	Mi-6277, 6278	A	0.1±0.2;0.2	0.1±0.2;0.2
Jun, 1995	K-40	Mi-6277, 6278	A	1,285.5±152.0;231.7	1,355.2±114.0;216.7
Jun, 1995	H-3	Sw-6232, 6233	A	68.4±79.5;80.0	136.7±82.4;84.5
Jun, 1995	Gr. Alpha	Ve-6348, 6349	A	0.3±0.1;0.1	0.2±0.1;0.1
Jun, 1995	Gr. Beta	Ve-6348, 6349	A	3.3±0.1;0.4	3.4±0.1;0.4
Jun, 1995	K-40	Ve-6348, 6349	A	3.1±0.3;0.5	3.0±0.3;0.4
Jun, 1995	I-131	Mi-6419, 6420	A	0.1±0.2;0.2	0.1±0.2;0.2
Jun, 1995	K-40	Mi-6419, 6420	A	1,457.2±175.0;264.4	1,339.3±150.0;236.0
Jun, 1995	I-131	Mi-6521, 6522	A	0.1±0.2;0.2	0.0±0.2;0.2
Jun, 1995	K-40	Mi-6521, 6522	A	1,475.4±123.0;235.4	1,274.6±160.0;235.9
Jun, 1995	K-40	Sl-6500, 6501	A	1.8±0.5;0.5	2.2±0.5;0.6
Jun, 1995	Co-60	Mi-6446, 6447	A	0.2±4.9;4.9	0.4±2.8;2.8
Jun, 1995	Cs-137	Mi-6446, 6447	A	1.3±3.4;3.4	0.1±2.2;2.2
Jun, 1995	I-131	Mi-6446, 6447	A	-0.0±0.2;0.2	0.0±0.2;0.2
Jun, 1995	Gr. Beta	Cw-6474, 6475	A	2.8±1.4;1.5	3.2±1.4;1.5
Jun, 1995	Gr. Beta	Cw-6474, 6475	A	0.0±1.2;1.2	0.1±1.2;1.2
Jun, 1995	I-131	Mi-6564, 6565	A	0.2±0.3;0.3	0.1±0.2;0.2

Table A-4. In-house "duplicate" program.

Date Collected	Analysis	Lab Codes ^b	Accepted ^c Rejected	Concentration in pCi/L ^a	
				First Result	Second Result
Jun, 1995	Cs-137	Bs-6960, 6961	A	0.1±0.0;0.0	0.0±0.0;0.0
Jun, 1995	K-40	Bs-6960, 6961	A	17.7±0.9;2.0	17.0±1.1;2.0
Jun, 1995	H-3	Ww-6861, 6862	A	1,422.4±128.0;232.0	1,505.1±130.3;242.6
Jun, 1995	I-131	Mi-6840, 6841	A	0.2±0.2;0.2	0.1±0.2;0.2
Jun, 1995	Co-60	Lw-6889, 6890	A	-2.4±3.4 3.4	1.4±1.7;1.8
Jun, 1995	Cs-137	Lw-6889, 6890	A	-0.5±3.0;3.0	0.1±2.2;2.2
Jun, 1995	Gr. Beta	Lw-6889, 6890	A	3.0±0.8;1.0	3.0±0.8;1.0
Jun, 1995	H-3	Sw-7053, 7054	A	73.2±75.7;76.3	126.8±78.2;80.1
Jun, 1995	H-3	Sw-7011, 7012	A	203.6±81.6;86.2	226.8±82.6;88.2
Jun, 1995	I-131	Mi-7032, 7033	A	0.3±0.3;0.3	-0.1±0.3;0.3
Jun, 1995	K-40	Mi-7032, 7033	A	1,577.6±127.0;249.3	1,522.8±164.0;264.2
Jun, 1995	Gr. Beta	Swu-7101, 7102	A	2.0±0.5;0.6	2.1±0.5;0.6
Jun, 1995	H-3	Swu-7101, 7102	A	118.6±85.8;87.3	92.6±84.7;85.6
Jun, 1995	Sr-89	Swu - 7828, 7829	A	0.6±0.8;0.8	0.1±0.7;0.7
Jun, 1995	Sr-90	Swu - 7828, 7829	A	0.2±0.3;0.3	0.2±0.3;0.3
Jun, 1995	Sr-90	Swu - 7828, 7829	A	0.2±0.3;0.3	0.2±0.3;0.3
Jun, 1995	Sr-89	Swu-7828, 7829	A	0.6±0.8;0.8	0.1±0.7;0.7
Jun, 1995	Sr-89	Swu-7828, 7829	A	0.6±0.8;0.8	0.1±0.7;0.7
Jun, 1995	Sr-89	Swu-7828, 7829	A	0.6±0.8;0.8	0.1±0.7;0.7
Jun, 1995	Sr-89	Swu-7828, 7829	A	0.6±0.8;0.8	0.1±0.7;0.7
Jun, 1995	Sr-90	Swu-7828, 7829	A	0.2±0.3;0.3	0.2±0.3;0.3
Jun, 1995	Sr-90	Swu-7828, 7829	A	0.2±0.3;0.3	0.2±0.3;0.3
Jun, 1995	Sr-90	Swu-7828, 7829	A	0.2±0.3;0.3	0.2±0.3;0.3
Jun, 1995	Sr-90	Swu-7828, 7829	A	0.2±0.3;0.3	0.2±0.3;0.3
Jun, 1995	Co-60	Ap-8111, 8112	A	-0.0±0.0;0.0	0.0±0.0;0.0
Jun, 1995	Cs-137	Ap-8111, 8112	A	-0.0±0.0;0.0	0.0±0.0;0.0
Jun, 1995	Gr. Beta	Sw-7080, 7081	A	2.3±0.6;0.7	2.7±0.6;0.7
Jun, 1995	K-40	Sw-7080, 7081	A	61.3±28.3;29.0	95.4±26.0;27.7
Jun, 1995	H-3	Wwt-7122, 7123	A	3.8±81.4;81.4	-13.4±80.6;80.6
Jun, 1995	Gr. Beta	Lw-7239, 7240	A	2.5±0.1;0.4	2.4±0.6;0.7
Jun, 1995	H-3	Ww-7143, 7144	A	539.1±103.3;126.7	436.4±99.5;115.9
Jun, 1995	H-3	Pw-7174, 7175	A	144.1±84.3;86.5	121.4±83.3;84.9
Jun, 1995	H-3	Sw-7216, 7217	A	20.4±81.4;81.5	63.0±83.3;83.8
Jun, 1995	Gr. Beta	Ww-7281, 7282	A	1.8±0.3;0.4	2.1±0.6;0.7
Jun, 1995	H-3	Ww-7281, 7282	A	-24.3±75.2;75.2	10.3±76.8;76.8
Jul, 1995	Co-60	Sw-7387, 7388	A	1.0±1.9;1.9	0.2±1.7;1.7

Table A-4. In-house "duplicate" program.

Date Collected	Analysis	Lab Codes ^b	Accepted ^c Rejected	Concentration in pCi/L ^a	
				First Result	Second Result
Jul, 1995	Cs-137	Sw-7387, 7388	A	0.6±2.3;2.3	-0.9±2.0;2.0
Jul, 1995	Co-60	Ap-8133, 8134	A	-0.0±0.0;0.0	0.0±0.0;0.0
Jul, 1995	Cs-137	Ap-8133, 8134	A	-0.0±0.0;0.0	0.0±0.0;0.0
Jul, 1995	Sr-89	Ap-7600, 7601	A	0.0±0.0;0.0	0.0±0.0;0.0
Jul, 1995	Sr-90	Ap-7600, 7601	A	-0.0±0.0;0.0	0.0±0.0;0.0
Jul, 1995	Co-60	Mi-7260, 7261	A	0.3±2.9;2.9	0.6±5.2;5.2
Jul, 1995	Cs-137	Mi-7260, 7261	A	1.7±2.6;2.6	-1.5±3.4;3.4
Jul, 1995	I-131	Mi-7260, 7261	A	0.2±0.2;0.2	0.1±0.2;0.2
Jul, 1995	H-3	Ww-7454, 7455	A	7,142.8±243.6;1,001.5	6,935.4±241.2;980.2
Jul, 1995	K-40	Lw - 7487, 7488	A	48.0±14.4;15.2	95.8±39.9;41.0
Jul, 1995	K-40	Lw - 7487, 7488	A	48.0±14.4;15.2	95.8±39.9;41.0
Jul, 1995	Co-60	Lw-7487, 7488	A	0.4±1.1;1.1	0.4±3.0;3.0
Jul, 1995	Cs-134	Lw-7487, 7488	A	0.1±1.1;1.1	-2.4±3.0;3.0
Jul, 1995	Cs-137	Lw-7487, 7488	A	0.5±1.1;1.1	-2.2±2.8;2.9
Jul, 1995	Gr. Beta	Lw-7487, 7488	A	2.1±0.5;0.6	1.9±0.5;0.6
Jul, 1995	I-131	Lw-7487, 7488	A	0.2±0.3;0.3	-0.0±0.3;0.3
Jul, 1995	I-131(g)	Lw-7487, 7488	A	0.3±2.4;2.4	0.9±10.5;10.5
Jul, 1995	K-40	Lw-7487, 7488	A	48.0±14.4;15.2	95.8±39.9;41.0
Jul, 1995	K-40	Lw-7487, 7488	A	48.0±14.4;15.2	95.8±39.9;41.0
Jul, 1995	K-40	Lw-7487, 7488	A	48.0±14.4;15.2	95.8±39.9;41.0
Jul, 1995	K-40	Lw-7487, 7488	A	48.0±14.4;15.2	95.8±39.9;41.0
Jul, 1995	Gr. Beta	Sw-7323, 7324	A	2.3±0.8;0.8	2.6±0.8;0.9
Jul, 1995	H-3	Sw-7323, 7324	A	77.9±84.0;84.7	48.4±82.6;82.9
Jul, 1995	Co-60	F-7366, 7367	A	0.0±0.0;0.0	0.0±0.0;0.0
Jul, 1995	Cs-137	F-7366, 7367	A	0.0±0.0;0.0	0.0±0.0;0.0
Jul, 1995	I-131	Mi-7510, 7511	A	0.3±0.4;0.4	0.1±0.4;0.4
Jul, 1995	Co-60	F-7344, 7345	A	0.0±0.0;0.0	-0.0±0.0;0.0
Jul, 1995	Cs-137	F-7344, 7345	A	0.0±0.0;0.0	0.0±0.0;0.0
Jul, 1995	I-131	Mi-7429, 7430	A	-0.2±0.3;0.3	0.2±0.2;0.2
Jul, 1995	Gr. Beta	F-8154, 8155	A	2.3±0.1;0.2	2.3±0.1;0.2
Jul, 1995	K-40	F-8154, 8155	A	2.2±0.3;0.3	2.1±0.4;0.5
Jul, 1995	Co-60	Mi-7575, 7576	A	-1.0±2.9;2.9	1.6±3.2;3.2
Jul, 1995	Cs-134	Mi-7575, 7576	A	1.7±2.4;2.4	-0.6±2.4;2.4
Jul, 1995	Cs-137	Mi-7575, 7576	A	-0.8±2.5;2.5	1.3±2.4;2.4
Jul, 1995	I-131	Mi-7575, 7576	A	0.2±0.2;0.2	0.1±0.2;0.2
Jul, 1995	I-131(g)	Mi-7575, 7576	A	0.9±2.2;2.2	0.9±2.4;2.4

Table A-4. In-house "duplicate" program.

Date Collected	Analysis	Lab Codes ^b	Accepted ^c Rejected	Concentration in pCi/L ^a	
				First Result	Second Result
Jul, 1995	K-40	Mi-7575, 7576	A	1,481.9±111.0;230.1	1,398.8±106.0;217.8
Jul, 1995	Sr-89	Mi-7575, 7576	A	0.6±1.0;1.0	-0.5±0.9;0.9
Jul, 1995	Sr-90	Mi-7575, 7576	A	1.2±0.4;0.4	1.8±0.4;0.4
Jul, 1995	I-131	Wwt-7621, 7622	A	0.1±0.2;0.2	0.1±0.2;0.2
Jul, 1995	Co-60	Mi-7739, 7740	A	0.9±4.9;4.9	-0.6±4.6;4.6
Jul, 1995	Cs-137	Mi-7739, 7740	A	0.9±3.7;3.7	-0.4±3.1;3.1
Jul, 1995	I-131	Mi-7739, 7740	A	0.2±0.3;0.3	-0.0±0.2;0.2
Jul, 1995	Co-60	G-7805, 7806	A	-0.0±0.0;0.0	0.0±0.0;0.0
Jul, 1995	Cs-134	G-7805, 7806	A	-0.0±0.0;0.0	0.0±0.0;0.0
Jul, 1995	Cs-137	G-7805, 7806	A	0.0±0.0;0.0	0.0±0.0;0.0
Jul, 1995	Gr. Beta	G-7805, 7806	A	5.1±0.2;0.5	5.1±0.2;0.6
Jul, 1995	I-131(g)	G-7805, 7806	A	-0.0±0.0;0.0	-0.0±0.0;0.0
Jul, 1995	K-40	G-7805, 7806	A	6.0±0.6;0.8	5.8±0.5;0.8
Jul, 1995	Gr. Beta	Cw-7648, 7649	A	6.7±1.7;2.0	6.7±1.7;2.0
Jul, 1995	Gr. Beta	Cw-7648, 7649	A	0.7±1.3;1.3	0.2±1.2;1.2
Jul, 1995	H-3	Cw-7648, 7649	A	64.4±97.5;97.9	-70.2±97.2;97.7
Jul, 1995	Gr. Beta	Ww-7673, 7674	A	14.1±2.2;3.1	14.2±2.2;3.1
Jul, 1995	H-3	Ww-7673, 7674	A	15.3±81.8;81.8	36.4±82.7;82.9
Jul, 1995	Sr-89	Mi-7896, 7897	A	0.4±1.0;1.0	0.2±0.9;0.9
Jul, 1995	Sr-90	Mi-7896, 7897	A	1.7±0.4;0.5	1.3±0.4;0.4
Jul, 1995	H-3	Ww-7967, 7968	A	109.5±84.6;85.9	70.8±82.8;83.4
Jul, 1995	Co-60	Mi-7922, 7923	A	0.6±3.1;3.1	-1.1±4.5;4.5
Jul, 1995	Cs-137	Mi-7922, 7923	A	1.2±2.9;2.9	-0.5±3.4;3.4
Jul, 1995	I-131	Mi-7922, 7923	A	0.1±0.2;0.2	0.0±0.2;0.2
Jul, 1995	Co-60	Lw-7944, 7945	A	0.1±2.2;2.2	1.3±1.9;1.9
Jul, 1995	Cs-137	Lw-7944, 7945	A	0.6±2.2;2.2	-1.4±1.8;1.8
Jul, 1995	Gr. Beta	Lw-7944, 7945	A	4.1±0.9;1.1	4.0±0.9;1.1
Jul, 1995	Co-60	Sw-8704, 8705	A	0.2±2.5;2.5	1.0±1.8;1.8
Jul, 1995	Cs-137	Sw-8704, 8705	A	0.3±3.5;3.5	-0.7±1.9;1.9
Jul, 1995	H-3	Ww-8196, 8197	A	51.4±87.9;88.2	176.0±93.4;96.4
Jul, 1995	Gr. Beta	Swu-8318, 8319	A	2.0±0.5;0.6	1.9±0.5;0.6
Jul, 1995	H-3	Swu-8318, 8319	A	102.7±103.7;104.6	35.5±101.2;101.3
Jul, 1995	K-40	Swu-8318, 8319	A	93.3±39.7;40.8	99.7±49.1;50.1
Jul, 1995	Gr. Alpha	Sp-8540, 8541	A	5.2±1.3;1.4	3.9±1.1;1.1
Jul, 1995	Sr-89	Sp-8540, 8541	A	1,443.1±42.1;150.3	1,419.5±35.3;146.3
Jul, 1995	Sr-90	Sp-8540, 8541	A	15.7±3.8;4.1	19.4±4.1;4.6

Table A-4. In-house "duplicate" program.

Date Collected	Analysis	Lab Codes ^b	Accepted ^c Rejected	Concentration in pCi/L ^a	
				First Result	Second Result
Jul, 1995	Gr. Beta	Ve-8090, 8091	A	2.4±0.1;0.3	2.3±0.1;0.2
Jul, 1995	K-40	Ve-8090, 8091	A	2.8±0.1;0.3	2.8±0.1;0.3
Jul, 1995	Gr. Alpha	Sw-8175, 8176	A	0.5±0.6;0.6	0.7±0.8;0.5
Jul, 1995	Gr. Beta	Sw-8175, 8176	A	0.8±1.1;1.1	0.8±1.1;1.1
Jul, 1995	K-40	Sw-8175, 8176	A	89.8±23.8;25.4	67.4±39.3;39.9
Jul, 1995	H-3	Sw-8251, 8252	A	86.8±78.9;79.8	44.0±76.9;77.2
Jul, 1995	Co-60	Sw-8606, 8607	A	0.1±1.7;1.7	-0.2±2.6;2.6
Jul, 1995	Cs-137	Sw-8606, 8607	A	-1.0±2.0;2.0	-0.7±2.2;2.2
Aug, 1995	K-40	G - 8272, 8273	A	6.7±0.6;0.9	6.7±1.0;1.2
Aug, 1995	Sr-89	G - 8272, 8273	A	0.0±0.0;0.0	-0.0±0.0;0.0
Aug, 1995	Sr-90	G - 8272, 8273	A	0.0±0.0;0.0	0.0±0.0;0.0
Aug, 1995	Gr. Beta	G-8272, 8273	A	6.2±0.3;0.7	6.0±0.3;0.6
Aug, 1995	I-131	Mi-8293, 8294	A	-0.1±0.2;0.2	0.0±0.2;0.2
Aug, 1995	I-131	Mi-8389, 8390	A	-0.0±0.1;0.1	0.1±0.1;0.1
Aug, 1995	K-40	Mi-8389, 8390	A	1,543.8±120.0;241.8	1,369.6±162.0;246.9
Aug, 1995	Co-60	Mi-8413, 8414	A	0.3±3.1;3.1	-2.4±5.2;5.2
Aug, 1995	Cs-137	Mi-8413, 8414	A	-0.7±2.9;2.9	-1.4±3.3;3.3
Aug, 1995	I-131	Mi-8413, 8414	A	0.1±0.2;0.2	0.1±0.2;0.2
Aug, 1995	Co-60	Lw-8440, 8441	A	0.1±2.4;2.4	1.0±1.8;1.8
Aug, 1995	Cs-137	Lw-8440, 8441	A	0.8±2.0;2.0	-0.4±2.1;2.1
Aug, 1995	Gr. Beta	Lw-8440, 8441	A	3.3±1.1;1.2	4.7±1.2;1.4
Aug, 1995	Co-60	Ww-8518, 8519	A	1.5±3.1;3.1	-1.8±3.0;3.0
Aug, 1995	Cs-137	Ww-8518, 8519	A	1.7±2.9;2.9	0.4±2.8;2.8
Aug, 1995	H-3	Ww-8518, 8519	A	10.7±74.0;74.1	-19.6±72.6;72.6
Aug, 1995	Co-60	Ve-8564, 8565	A	0.0±0.0;0.0	0.0±0.0;0.0
Aug, 1995	Cs-137	Ve-8564, 8565	A	0.0±0.0;0.0	-0.0±0.0;0.0
Aug, 1995	Co-60	Mi-8585, 8586	A	-0.5±4.1;4.1	1.9±2.6;2.6
Aug, 1995	Cs-134	Mi-8585, 8586	A	0.1±3.5;3.5	0.9±2.3;2.3
Aug, 1995	Cs-137	Mi-8585, 8586	A	1.8±3.6;3.6	0.2±2.1;2.1
Aug, 1995	I-131	Mi-8585, 8586	A	-0.2±0.2;0.2	0.1±0.2;0.2
Aug, 1995	I-131(g)	Mi-8585, 8586	A	0.1±9.0;9.0	2.4±6.8;6.8
Aug, 1995	K-40	Mi-8585, 8586	A	1,454.6±150.0;248.3	1,478.2±104.0;226.3
Aug, 1995	Sr-89	Mi-8585, 8586	A	0.1±1.1;1.1	-0.1±0.9;0.9
Aug, 1995	Sr-90	Mi-8585, 8586	A	1.9±0.4;0.5	1.6±0.4;0.4
Aug, 1995	Co-60	Mi-8674, 8675	A	-0.8±3.2;3.2	0.5±3.3;3.3
Aug, 1995	Cs-137	Mi-8674, 8675	A	0.5±2.4;2.4	0.4±2.4;2.4

Table A-4. In-house "duplicate" program.

Date Collected	Analysis	Lab Codes ^b	Accepted ^c Rejected	Concentration in pCi/L ^a	
				First Result	Second Result
Aug, 1995	I-131	Mi-8674, 8675	A	0.1±0.3;0.3	-0.1±0.2;0.2
Aug, 1995	H-3	Sw-8648, 8649	A	35.6±75.1;75.3	21.3±74.5;74.5
Aug, 1995	Co-60	F-8754, 8755	A	0.0±0.0;0.0	0.0±0.0;0.0
Aug, 1995	Cs-134	F-8754, 8755	A	-0.0±0.0;0.0	-0.0±0.0;0.0
Aug, 1995	Cs-137	F-8754, 8755	A	0.1±0.0;0.0	0.1±0.0;0.0
Aug, 1995	Gr. Beta	F-8754, 8755	A	13.1±0.3;1.3	12.6±0.3;1.3
Aug, 1995	I-131(g)	F-8754, 8755	A	0.0±0.0;0.0	0.0±0.0;0.0
Aug, 1995	K-40	F-8754, 8755	A	2.8±0.4;0.5	3.3±0.4;0.5
Aug, 1995	Gr. Alpha	Ve-8946, 8947	A	0.2±0.1;0.1	0.2±0.1;0.1
Aug, 1995	Gr. Beta	Ve-8946, 8947	A	4.3±0.2;0.5	4.3±0.2;0.5
Aug, 1995	K-40	Ve-8946, 8947	A	4.0±0.3;0.5	4.0±0.3;0.5
Aug, 1995	Sr-89	Ve - 8802, 8803	A	-0.0±0.0;0.0	-0.0±0.0;0.0
Aug, 1995	Sr-90	Ve - 8802, 8803	A	0.0±0.0;0.0	0.0±0.0;0.0
Aug, 1995	K-40	Ve-8802, 8803	A	2.3±0.2;0.3	2.3±0.3;0.4
Aug, 1995	I-131	Mi-8845, 8846	A	0.0±0.2;0.2	0.1±0.2;0.2
Aug, 1995	Gr. Beta	Cw-8873, 8874	A	1.9±1.4;1.4	4.3±1.6;1.7
Aug, 1995	Gr. Beta	Cw-8873, 8874	A	-0.6±1.1;1.1	-0.0±1.2;1.2
Aug, 1995	I-131	Mi-8902, 8903	A	-0.0±0.2;0.2	0.1±0.3;0.3
Aug, 1995	K-40	Ve-9035, 9036	A	2.2±0.3;0.4	2.4±0.3;0.4
Aug, 1995	H-3	Sw-9056, 9057	A	140.7±79.6;81.9	55.2±75.7;76.0
Aug, 1995	I-131	Mi-9113, 9114	A	0.2±0.3;0.3	0.3±0.3;0.3
Aug, 1995	Co-60	Lw-9079, 9080	A	0.8±2.8;2.8	0.2±3.0;3.0
Aug, 1995	Cs-137	Lw-9079, 9080	A	0.8±2.8;2.8	-0.5±2.7;2.7
Aug, 1995	Gr. Beta	Lw-9079, 9080	A	2.8±0.9;1.0	2.7±0.9;1.0
Aug, 1995	Co-60	Sw-9183, 9184	A	-0.3±3.0;3.0	2.2±4.0;4.1
Aug, 1995	Cs-137	Sw-9183, 9184	A	0.8±3.4;3.4	0.3±4.4;4.4
Aug, 1995	Gr. Beta	Swu-9162, 9163	A	2.5±0.5;0.6	2.5±0.5;0.7
Aug, 1995	H-3	Swu-9162, 9163	A	152.0±88.0;90.4	157.4±83.7;86.4
Aug, 1995	H-3	Ww-9276, 9277	A	1,636.0±131.0;258.2	1,680.8±132.2;264.1
Aug, 1995	Gr. Beta	Ve-9210, 9211	A	4.1±0.2;0.5	4.1±0.2;0.4
Aug, 1995	K-40	Ve-9210, 9211	A	4.6±0.1;0.5	4.6±0.1;0.5
Aug, 1995	Gr. Beta	Dw-9371, 9372	A	5.0±1.2;1.4	4.5±1.2;1.4
Aug, 1995	I-131	Dw-9371, 9372	A	0.1±0.2;0.2	0.1±0.2;0.2
Aug, 1995	I-131	Mi-9297, 9298	A	0.0±0.2;0.2	0.1±0.2;0.2
Aug, 1995	K-40	Mi-9297, 9298	A	1,727.8±180.0;296.0	1,602.7±172.0;277.7
Sep, 1995	H-3	Ww-9252, 9253	A	530.9±98.7;122.3	538.0±99.0;123.1

Table A-4. In-house "duplicate" program.

Date Collected	Analysis	Lab Codes ^b	Accepted ^c Rejected	Concentration in pCi/L ^a	
				First Result	Second Result
Sep, 1995	I-131	Mi-9327, 9328	A	0.1±0.2;0.2	0.1±0.2;0.2
Sep, 1995	Co-60	Ww-9396, 9397	A	2.1±2.5;2.5	0.7±3.0;3.0
Sep, 1995	Cs-137	Ww-9396, 9397	A	2.7±2.7;2.8	0.8±2.6;2.6
Sep, 1995	Gr. Beta	Ww-9396, 9397	A	0.7±1.4;1.4	1.8±1.3;1.3
Sep, 1995	H-3	Ww-9396, 9397	A	14.9±76.6;76.6	48.9±78.2;78.5
Sep, 1995	H-3	Sw - 10075, 10076	A	262.1±88.0;94.9	265.7±88.1;95.3
Sep, 1995	Sr-89	Sw - 10075, 10076	A	-1.1±1.0;1.0	0.8±1.0;1.0
Sep, 1995	Sr-90	Sw - 10075, 10076	A	0.6±0.3;0.3	0.3±0.2;0.2
Sep, 1995	I-131	Mi-9350, 9351	A	-0.1±0.2;0.2	0.1±0.2;0.2
Sep, 1995	K-40	Mi-9350, 9351	A	1,335.3±163.0;244.0	1,521.4±179.0;273.6
Sep, 1995	I-131	Mi - 9463, 9464	A	0.1±0.2;0.2	0.1±0.2;0.2
Sep, 1995	K-40	Mi-9463, 9464	A	1,814.9±139.0;283.3	1,743.1±180.0;297.7
Sep, 1995	K-40	Bs - 9710, 9711	A	8.3±0.4;0.9	8.8±0.3;0.9
Sep, 1995	Gr. Beta	Cw - 9486, 9487	A	0.4±1.2;1.2	-0.9±1.4;1.4
Sep, 1995	Gr. Beta	Cw-9486, 9487	A	3.2±1.5;1.6	3.4±1.6;1.7
Sep, 1995	Cs-137	So - 9562, 9563	A	0.4±0.0;0.0	0.5±0.0;0.1
Sep, 1995	K-40	So - 9562, 9563	A	15.0±0.4;1.6	15.7±0.7;1.7
Sep, 1995	Co-60	Ve-9515, 9516	A	-0.0±0.0;0.0	-0.0±0.0;0.0
Sep, 1995	Cs-137	Ve-9515, 9516	A	-0.0±0.0;0.0	-0.0±0.0;0.0
Sep, 1995	I-131	Mi-9611, 9612	A	0.1±0.2;0.2	0.1±0.2;0.2
Sep, 1995	K-40	Mi-9611, 9612	A	1,463.6±163.0;257.3	1,381.6±117.0;221.3
Sep, 1995	H-3	Sw-9583, 9584	A	191.8±84.4;88.3	59.6±78.6;79.0
Sep, 1995	Gr. Beta	Lw - 9632, 9633	A	4.9±0.9;1.2	4.2±0.8;1.0
Sep, 1995	Co-60	Lw-9632, 9633	A	0.2±2.5;2.5	0.7±1.9;1.9
Sep, 1995	Cs-134	Lw-9632, 9633	A	-1.0±2.5;2.5	0.3±2.3;2.3
Sep, 1995	Cs-137	Lw-9632, 9633	A	0.7±2.7;2.7	2.0±2.0;2.0
Sep, 1995	I-131	Lw-9632, 9633	A	-0.0±0.2;0.2	0.2±0.2;0.2
Sep, 1995	I-131(g)	Lw-9632, 9633	A	-1.2±7.9;7.9	-1.8±6.9;6.9
Sep, 1995	K-40	Lw-9632, 9633	A	73.2±35.1;35.9	84.5±38.9;39.8
Sep, 1995	I-131	Mi-9677, 9678	A	0.1±0.2;0.2	-0.1±0.2;0.2
Sep, 1995	K-40	Mi-9677, 9678	A	1,579.6±149.0;261.4	1,387.5±150.0;241.1
Sep, 1995	Gr. Beta	Cw-9654, 9655	A	3.9±1.5;1.6	4.0±1.5;1.6
Sep, 1995	Gr. Beta	Cw-9654, 9655	A	-0.4±1.1;1.1	0.2±1.1;1.1
Sep, 1995	Co-60	Mi-9758, 9759	A	0.1±2.3;2.3	-1.1±5.6;5.6
Sep, 1995	Cs-137	Mi-9758, 9759	A	0.2±2.1;2.1	3.3±4.1;4.2
Sep, 1995	I-131	Mi-9758, 9759	A	0.0±0.1;0.1	0.1±0.1;0.1

Table A-4. In-house "duplicate" program.

Date Collected	Analysis	Lab Codes ^b	Accepted ^c Rejected	Concentration in pCi/L ^a	
				First Result	Second Result
Sep, 1995	K-40	Ve-9781, 9782	A	3.7±0.3;0.5	3.9±0.4;0.5
Sep, 1995	Gr. Alpha	Ww - 9917, 9918	A	1.0±1.2;1.2	0.2±1.3;1.3
Sep, 1995	Gr. Beta	Ww - 9917, 9918	A	2.0±1.6;1.6	1.5±1.5;1.6
Sep, 1995	K-40	Ww - 9917, 9918	A	61.6±27.2;27.9	55.5±30.1;30.6
Sep, 1995	Gr. Beta	Swu - 10054, 10055	A	2.9±0.7;0.8	3.0±0.6;0.8
Sep, 1995	H-3	Swu - 10054, 10055	A	272.2±86.6;94.1	186.8±83.0;86.8
Sep, 1995	Gr. Beta	Cw-9848, 9849	A	10.1±2.1;2.6	10.6±2.0;2.6
Sep, 1995	Gr. Beta	Cw-9848, 9849	A	0.6±1.1;1.1	0.1±1.1;1.1
Sep, 1995	H-3	Cw-9848, 9849	A	2.4±75.6;75.6	-2.9±75.4;75.4
Sep, 1995	I-131	Mi-9873, 9874	A	0.1±0.2;0.2	0.3±0.3;0.3
Sep, 1995	Co-60	Sw - 10174, 10175	A	-0.2±1.9;1.9	0.1±3.3;3.3
Sep, 1995	Cs-137	Sw - 10174, 10175	A	-0.1±2.9;2.9	-0.1±2.9;2.9
Sep, 1995	H-3	Ww-9988, 9989	A	126.1±81.2;83.0	18.3±76.3;76.4
Sep, 1995	Gr. Beta	Swt - 10033, 10034	A	1.8±0.5;0.5	1.9±0.5;0.5
Sep, 1995	H-3	P-10216, 10217	A	76.4±78.7;79.4	74.7±78.6;79.2
Sep, 1995	H-3	Sw-10261, 10262	A	279.1±88.4;96.2	300.6±89.3;98.2
Sep, 1995	Gr. Beta	Ve - 10012, 10013	A	5.7±0.3;0.6	5.0±0.4;0.7
Sep, 1995	I-131	Mi-10120, 10121	A	0.1±0.1;0.1	0.0±0.1;0.1
Sep, 1995	K-40	Mi-10120, 10121	A	1,446.6±163.0;255.5	1,300.9±145.0;228.7
Sep, 1995	H-3	Sw-10195, 10196	A	-19.6±74.7;74.7	103.2±80.3;81.5
Sep, 1995	Gr. Beta	Cw - 10240, 10241	A	2.8±1.4;1.5	3.7±1.5;1.6
Sep, 1995	Gr. Beta	Cw - 10240, 10241	A	0.6±1.2;1.2	2.4±1.3;1.3
Sep, 1995	H-3	Sw-10150, 10151	A	119.1±81.0;82.6	129.8±81.5;83.4
Oct, 1995	Gr. Beta	Sw - 10282, 10283	A	2.2±0.5;0.6	1.9±0.5;0.5
Oct, 1995	H-3	Ww - 10349, 10350	A	64.9±80.2;80.7	47.4±79.4;79.7
Oct, 1995	Co-60	Ww-10349, 10350	A	0.1±1.2;1.2	1.5±2.1;2.1
Oct, 1995	Cs-137	Ww-10349, 10350	A	0.8±1.2;1.2	0.1±2.2;2.2
Oct, 1995	K-40	Ve-10370, 10371	A	3.3±0.5;0.6	3.3±0.5;0.6
Oct, 1995	Co-60	F-10491, 10492	A	-0.0±0.0;0.0	0.0±0.0;0.0
Oct, 1995	Cs-137	F-10491, 10492	A	-0.0±0.0;0.0	-0.0±0.0;0.0
Oct, 1995	Co-60	Ap - 10752, 10753	A	-0.0±0.0;0.0	-0.0±0.0;0.0
Oct, 1995	Cs-134	Ap - 10752, 10753	A	0.0±0.0;0.0	0.0±0.0;0.0
Oct, 1995	Cs-137	Ap - 10752, 10753	A	-0.0±0.0;0.0	0.0±0.0;0.0
Oct, 1995	I-131(g)	Ap - 10752, 10753	A	0.0±0.0;0.0	-0.0±0.0;0.0
Oct, 1995	K-40	Ap - 10752, 10753	A	0.0±0.0;0.0	0.0±0.0;0.0
Oct, 1995	Co-60	Ap - 11141, 11142	A	0.0±0.0;0.0	0.0±0.0;0.0

Table A-4. In-house "duplicate" program.

Date Collected	Analysis	Lab Codes ^b	Accepted ^c Rejected	Concentration in pCi/L ^d	
				First Result	Second Result
Oct, 1995	Cs-137	Ap - 11141, 11142	A	0.0±0.0;0.0	0.0±0.0;0.0
Oct, 1995	Co-60	Mi - 10324, 10325	A	0.3±2.2;2.2	-1.0±3.2;3.2
Oct, 1995	Cs-134	Mi - 10324, 10325	A	1.4±1.9;1.9	-1.0±2.6;2.6
Oct, 1995	Cs-137	Mi - 10324, 10325	A	0.3±2.1;2.1	1.0±2.6;2.6
Oct, 1995	I-131	Mi - 10324, 10325	A	0.1±0.1;0.1	0.1±0.2;0.2
Oct, 1995	I-131(g)	Mi - 10324, 10325	A	-0.9±2.7;2.7	1.2±3.3;3.3
Oct, 1995	K-40	Mi - 10324, 10325	A	1,440.7±88.9;215.2	1,432.5±120.0;228.8
Oct, 1995	Sr-89	Mi - 10324, 10325	A	-0.5±0.9;0.9	-1.3±0.9;0.9
Oct, 1995	Sr-90	Mi - 10324, 10325	A	1.7±0.4;0.4	1.7±0.4;0.4
Oct, 1995	I-131	Wwu-10392, 10393	A	0.0±0.2;0.2	0.0±0.2;0.2
Oct, 1995	Co-60	F-10470, 10471	A	0.0±0.0;0.0	0.0±0.0;0.0
Oct, 1995	Cs-137	F-10470, 10471	A	0.0±0.0;0.0	0.0±0.0;0.0
Oct, 1995	H-3	Sw - 10413, 10414	A	41.1±77.4;77.6	62.3±78.3;78.8
Oct, 1995	H-3	Ww-10437, 10438	A	81.6±78.1;78.9	-10.6±73.8;73.9
Oct, 1995	I-131	Mi - 10512, 10513	A	0.1±0.1;0.1	0.1±0.2;0.2
Oct, 1995	Co-60	So - 10577, 10578	A	0.0±0.0;0.0	0.0±0.0;0.0
Oct, 1995	Cs-134	So - 10577, 10578	A	0.0±0.0;0.0	0.0±0.0;0.0
Oct, 1995	Cs-137	So - 10577, 10578	A	0.2±0.0;0.0	0.2±0.0;0.0
Oct, 1995	Gr. Beta	So - 10577, 10578	A	18.4±3.0;3.5	20.1±3.0;3.6
Oct, 1995	K-40	So - 10577, 10578	A	19.0±0.6;2.0	18.5±0.6;1.9
Oct, 1995	I-131	Mi - 10598, 10599	A	0.0±0.2;0.2	-0.1±0.1;0.1
Oct, 1995	Co-60	F - 10666, 10667	A	-0.0±0.0;0.0	0.0±0.0;0.0
Oct, 1995	Cs-137	F - 10666, 10667	A	0.0±0.0;0.0	0.0±0.0;0.0
Oct, 1995	H-3	Ww - 11206, 11207	A	144.1±82.1;84.4	298.7±106.1;113.6
Oct, 1995	Co-60	F - 10687, 10688	A	-0.0±0.0;0.0	0.0±0.0;0.0
Oct, 1995	Cs-137	F - 10687, 10688	A	0.0±0.0;0.0	-0.0±0.0;0.0
Oct, 1995	I-131	Mi - 10710, 10711	A	-0.1±0.2;0.2	0.0±0.2;0.2
Oct, 1995	H-3	Ww - 10797, 10798	A	255.7±88.0;94.6	190.9±85.4;89.3
Oct, 1995	K-40	F - 10882, 10883	A	2.4±0.3;0.4	2.3±0.5;0.5
Oct, 1995	Gr. Beta	Cw - 10826, 10827	A	2.0±1.3;1.4	1.1±1.3;1.3
Oct, 1995	Gr. Beta	Swu - 10923, 10924	A	2.4±0.6;0.7	2.7±0.6;0.7
Oct, 1995	H-3	Swu - 10923, 10924	A	908.5±108.7;164.6	878.3±107.7;160.9
Oct, 1995	Cs-137	F - 10969, 10970	A	0.0±0.0;0.0	0.1±0.0;0.0
Oct, 1995	Gr. Beta	F - 10969, 10970	A	2.3±0.1;0.2	2.2±0.1;0.2
Oct, 1995	K-40	F - 10969, 10970	A	2.1±0.4;0.4	1.9±0.4;0.4
Oct, 1995	Gr. Beta	Cw - 10773, 10774	A	8.4±1.9;2.3	9.9±2.0;2.5

Table A-4. In-house "duplicate" program.

Date Collected	Analysis	Lab Codes ^b	Accepted ^c Rejected	Concentration in pCi/L ^d	
				First Result	Second Result
Oct, 1995	Gr. Beta	Cw - 10773, 10774	A	-0.3±1.1;1.1	0.9±1.1;1.1
Oct, 1995	H-3	Cw - 10773, 10774	A	51.7±77.8;78.1	67.5±78.5;79.0
Oct, 1995	Gr. Beta	Cw - 10858, 10859	A	3.8±1.5;1.6	5.5±1.6;1.8
Oct, 1995	Gr. Beta	Cw - 10858, 10859	A	0.2±1.1;1.1	-0.3±1.1;1.1
Oct, 1995	Cs-137	Bs - 11056, 11057	A	0.3±0.0;0.0	0.3±0.0;0.0
Oct, 1995	K-40	Bs - 11056, 11057	A	18.5±0.4;1.9	18.3±0.4;1.9
Oct, 1995	K-40	F - 11078, 11079	A	2.7±0.2;0.3	2.7±0.1;0.3
Oct, 1995	Gr. Beta	Cw - 11261, 11262	A	3.4±1.5;1.6	3.8±1.5;1.6
Oct, 1995	Gr. Beta	Cw - 11261, 11262	A	-1.0±1.0;1.0	-0.1±1.1;1.1
Oct, 1995	I-131	Mi - 11162, 11163	A	0.2±0.2;0.2	0.1±0.2;0.2
Oct, 1995	Co-60	Lw - 11185, 11186	A	0.3±2.0;2.0	0.1±3.9;3.9
Oct, 1995	Cs-137	Lw - 11185, 11186	A	1.0±2.0;2.0	1.4±3.3;3.3
Oct, 1995	Gr. Beta	Lw - 11185, 11186	A	7.9±1.4;1.8	6.7±1.3;1.6
Oct, 1995	I-131	Mi - 11284, 11285	A	0.2±0.3;0.3	0.2±0.2;0.2
Oct, 1995	K-40	Mi - 11284, 11285	A	1,759.4±182.0;300.6	1,581.9±164.0;270.5
Oct, 1995	Gr. Beta	Dw - 11565, 11566	A	2.4±0.5;0.6	2.6±0.5;0.6
Oct, 1995	I-131	Dw - 11565, 11566	A	-0.1±0.3;0.3	0.2±0.3;0.3
Oct, 1995	Gr Alpha	Sw - 11309, 11310	A	0.6±0.5;0.5	1.2±0.6;0.6
Oct, 1995	Gr. Beta	Sw - 11309, 11310	A	3.1±0.7;0.8	2.6±0.6;0.7
Oct, 1995	I-131	Mi - 11351, 11352	A	0.0±0.2;0.2	0.0±0.2;0.2
Oct, 1995	K-40	Mi - 11351, 11352	A	1,492.6±166.0;262.2	1,431.8±160.0;252.0
Oct, 1995	H-3	Sw - 11330, 11331	A	83.5±77.8;78.6	106.4±78.9;80.2
Oct, 1995	I-131	Mi - 11407, 11408	A	-0.1±0.2;0.2	0.1±0.2;0.2
Nov, 1995	I-131	Mi - 11433, 11434	A	-0.1±0.2;0.2	0.1±0.1;0.1
Nov, 1995	K-40	Mi - 11433, 11434	A	1,446.0±167.0;258.0	1,450.8±119.0;230.4
Nov, 1995	Sr-89	Mi - 11433, 11434	A	-0.1±1.3;1.3	-0.1±1.2;1.2
Nov, 1995	Sr-90	Mi - 11433, 11434	A	1.9±0.5;0.5	1.9±0.5;0.5
Nov, 1995	Gr. Beta	Bs - 11453, 11454	A	8.3±1.5;1.7	7.1±1.4;1.6
Nov, 1995	K-40	Bs - 11453, 11454	A	13.4±0.7;1.5	14.4±1.0;1.8
Nov, 1995	I-131	Mi - 11476, 11477	A	-0.0±0.2;0.2	0.1±0.2;0.2
Nov, 1995	K-40	Mi - 11476, 11477	A	1,425.6±155.0;248.2	1,379.5±93.1;209.4
Nov, 1995	Sr-89	Mi - 11476, 11477	A	0.2±1.6;1.6	0.7±1.2;1.2
Nov, 1995	Sr-90	Mi - 11476, 11477	A	1.6±0.6;0.6	0.7±0.4;0.4
Nov, 1995	Gr. Beta	Ww - 11657, 11658	A	0.4±0.5;0.5	0.5±0.5;0.5
Nov, 1995	H-3	Ww - 11657, 11658	A	110.2±79.0;80.4	172.2±81.7;85.0
Nov, 1995	H-3	Sw - 11519, 11520	A	86.1±78.0;78.8	10.3±74.5;74.5

Table A-4. In-house "duplicate" program.

Date Collected	Analysis	Lab Codes ^b	Accepted ^c Rejected	Concentration in pCi/L ^a	
				First Result	Second Result
Nov, 1995	Co-60	Ww - 11837, 11838	A	0.7±1.5;1.5	0.1±3.3;3.3
Nov, 1995	Cs-137	Ww - 11837, 11838	A	0.1±1.7;1.7	-0.5±3.0;3.0
Nov, 1995	K-40	Mi - 11588, 11589	A	1,282.9±161.0;237.4	1,390.4±145.0;238.3
Nov, 1995	I-131	Mi - 11611, 11612	A	0.0±0.2;0.2	0.1±0.2;0.2
Nov, 1995	K-40	Mi - 11611, 11612	A	1,368.1±112.0;217.2	1,291.1±158.0;236.2
Nov, 1995	Gr. Beta	Cw - 11678, 11679	A	2.7±1.5;1.6	2.1±1.4;1.4
Nov, 1995	I-131	Mi - 11786, 11787	A	0.1±0.2;0.2	-0.1±0.2;0.2
Nov, 1995	K-40	Mi - 11786, 11787	A	1,493.0±100.0;226.3	1,459.1±170.0;261.3
Nov, 1995	Gr. Beta	Cw - 11865, 11866	A	2.0±1.4;1.4	1.1±1.3;1.4
Nov, 1995	Co-60	Lw - 11926, 11927	A	-0.7±2.2;2.2	-1.4±3.3;3.3
Nov, 1995	Cs-137	Lw - 11926, 11927	A	1.4±2.0;2.0	1.7±2.7;2.7
Nov, 1995	Gr. Beta	Lw - 11926, 11927	A	3.6±0.9;1.1	4.3±1.0;1.2
Nov, 1995	Co-60	Pw - 12451, 12452	A	0.1±1.6;1.6	1.6±2.0;2.0
Nov, 1995	Cs-137	Pw - 12451, 12452	A	-1.1±1.7;1.7	0.9±2.5;2.5
Nov, 1995	H-3	Ww - 12659, 12660	A	10,454.1±283.5;1,449.8	10,315.0±281.7;1,430.9
Nov, 1995	K-40	G - 12184, 12185	A	7.1±0.5;0.9	7.2±0.6;0.9
Nov, 1995	Gr. Beta	Dw - 12229, 12230	A	1.5±0.4;0.5	1.5±0.5;0.5
Nov, 1995	H-3	Dw - 12229, 12230	A	48.4±76.6;76.8	70.9±77.6;78.2
Dec, 1995	Cs-137	So - 12430, 12431	A	0.2±0.1;0.1	0.2±0.1;0.1
Dec, 1995	Gr. Alpha	So - 12430, 12431	A	15.7±4.5;4.7	10.9±4.1;4.2
Dec, 1995	Gr. Beta	So - 12430, 12431	A	22.4±2.9;3.6	23.1±3.0;3.8
Dec, 1995	K-40	So - 12430, 12431	A	16.7±1.3;2.1	17.7±1.4;2.2
Dec, 1995	Co-60	Lw - 12152, 12153	A	1.4±3.3;3.3	3.4±2.1;2.2
Dec, 1995	Cs-137	Lw - 12152, 12153	A	-0.1±3.2;3.2	0.4±2.9;2.9
Dec, 1995	Gr. Beta	Lw - 12152, 12153	A	5.2±1.3;1.5	4.9±1.2;1.4
Dec, 1995	I-131	Mi - 12250, 12251	A	0.1±0.2;0.2	0.2±0.2;0.2
Dec, 1995	K-40	Mi - 12250, 12251	A	1,470.3±163.0;258.0	1,386.6±126.0;226.8
Dec, 1995	Co-60	Ww - 12298, 12299	A	0.4±2.4;2.4	0.2±4.1;4.1
Dec, 1995	Cs-137	Ww - 12298, 12299	A	0.2±2.1;2.1	1.5±2.8;2.8
Dec, 1995	H-3	Ww - 12298, 12299	A	42.8±78.0;78.2	99.8±80.5;81.7
Dec, 1995	Co-60	Lw - 12380, 12381	A	1.3±2.4;2.4	2.2±2.2;2.3
Dec, 1995	Cs-134	Lw - 12380, 12381	A	0.5±2.1;2.1	2.0±2.2;2.2
Dec, 1995	Cs-137	Lw - 12380, 12381	A	0.8±2.5;2.5	1.2±2.4;2.4
Dec, 1995	I-131	Lw - 12380, 12381	A	0.1±0.1;0.1	0.1±0.2;0.2
Dec, 1995	I-131(g)	Lw - 12380, 12381	A	-7.4±13.8;13.8	4.7±13.4;13.4
Dec, 1995	K-40	Lw - 12380, 12381	A	123.0±41.2;43.2	133.0±34.7;37.2

Table A-4. In-house "duplicate" program.

Date Collected	Analysis	Lab Codes ^b	Accepted ^c Rejected	Concentration in pCi/L ^a	
				First Result	Second Result
Dec, 1995	I-131	Mi - 12325, 12326	A	-0.1±0.2;0.2	0.2±0.2;0.2
Dec, 1995	K-40	Mi - 12325, 12326	A	1,409.0±172.0;257.5	1,438.6±169.0;258.5
Dec, 1995	H-3	Ww - 12347, 12348	A	77.3±78.9;79.6	87.6±79.3;80.2
Dec, 1995	Co-60	F - 12688, 12689	A	0.0±0.0;0.0	0.0±0.0;0.0
Dec, 1995	Cs-134	F - 12688, 12689	A	0.0±0.0;0.0	-0.0±0.0;0.0
Dec, 1995	Cs-137	F - 12688, 12689	A	0.0±0.0;0.0	0.0±0.0;0.0
Dec, 1995	I-131(g)	F - 12688, 12689	A	-0.0±0.0;0.0	0.0±0.0;0.0
Dec, 1995	K-40	F - 12688, 12689	A	2.4±0.3;0.4	2.5±0.4;0.4
Dec, 1995	Co-60	Pw - 12945, 12946	A	0.3±2.8;2.8	1.4±2.0;2.0
Dec, 1995	Cs-137	Pw - 12945, 12946	A	1.5±2.6;2.6	0.1±2.2;2.2

^a All concentrations are reported in pCi/L, except solid samples, which are reported in pCi/g wet. Results are reported as Activity±Counting Error;Total Propagated Uncertainty (TPU).

^b Lab codes are comprised of the sample media and the sample numbers. Client codes have been eliminated to protect client anonymity.

^c Acceptance is based on the difference of the two results divided by the pooled standard deviation being less than two, where, the pooled standard deviation is the square root of the sum of the squares of the TPU's.

APPENDIX V

ERRATA DATA

BRAIDWOOD STATION UNIT ONE

ACTUAL 1994
 MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES
 PERIOD OF RELEASE - 01/01/94 TO 12/31/94 CALCULATED 02/05/96
 INFANT RECEPTOR
 DATABASE CONTAINS DATA THROUGH 12/31/94

TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
GAMMA AIR (MRAD)	2.01E-03 (N)	4.82E-04 (N)	4.61E-05 (N)	5.22E-05 (N)	2.59E-03 (N)
BETA AIR (MRAD)	7.42E-03 (N)	2.02E-03 (N)	1.54E-04 (N)	1.66E-04 (N)	9.76E-03 (N)
TOT. BODY (MREM)	1.43E-03 (N)	3.38E-04 (N)	3.28E-05 (N)	3.74E-05 (N)	1.84E-03 (N)
SKIN (MREM)	4.25E-03 (N)	1.03E-03 (N)	8.67E-05 (N)	9.90E-05 (N)	5.47E-03 (N)
ORGAN (MREM)	4.04E-04 (E)	1.10E-03 (E)	2.98E-04 (E)	1.82E-03 (E)	3.62E-03 (E)
	THYROID	THYROID	THYROID	LIVER THYROID KIDNEY LUNG GI_LLI	THYROID

RESULTS BASED UPON: ODCM ANNEX REVISION 1.0 JANUARY 1994
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

BRAIDWOOD STATION UNIT ONE

ACTUAL 1994
 COMPLIANCE STATUS - 10CFR 50 APP. I
 INFANT RECEPTOR

----- % OF APP I. -----

	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
GAMMA AIR (MRAD)	5.0	0.04	0.01	0.00	0.00	10.0	0.03
BETA AIR (MRAD)	10.0	0.07	0.02	0.00	0.00	20.0	0.05
TOT. BODY (MREM)	2.5	0.06	0.01	0.00	0.00	5.0	0.04
SKIN (MREM)	7.5	0.06	0.01	0.00	0.00	15.0	0.04
ORGAN (MREM)	7.5	0.01	0.01	0.00	0.02	15.0	0.02
		THYROID	THYROID	THYROID	LIVER THYROID KIDNEY LUNG GI_LLI		THYROID

RESULTS BASED UPON: ODCM ANNEX REVISION 1.0 JANUARY 1994
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

BRAIDWOOD STATION UNIT ONE

ACTUAL 1994
 MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES
 PERIOD OF RELEASE - 01/01/94 TO 12/31/94 CALCULATED 02/05/96
 CHILD RECEPTOR
 DATABASE CONTAINS DATA THROUGH 12/31/94

TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
GAMMA AIR (MRAD)	2.01E-03 (N)	4.82E-04 (N)	4.61E-05 (N)	5.22E-05 (N)	2.59E-03 (N)
BETA AIR (MRAD)	7.42E-03 (N)	2.02E-03 (N)	1.54E-04 (N)	1.66E-04 (N)	9.76E-03 (N)
TOT. BODY (MREM)	1.43E-03 (N)	3.38E-04 (N)	3.28E-05 (N)	3.74E-05 (N)	1.84E-03 (N)
SKIN (MREM)	4.25E-03 (N)	1.03E-03 (N)	8.67E-05 (N)	9.90E-05 (N)	5.47E-03 (N)
ORGAN (MREM)	2.90E-04 (E)	6.44E-03 (N)	5.46E-03 (N)	2.16E-03 (N)	1.43E-02 (N)
	THYROID	THYROID	THYROID	LIVER THYROID KIDNEY LUNG GI_LLI	THYROID

RESULTS BASED UPON: ODCM ANNEX REVISION 1.0 JANUARY 1994
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

BRAIDWOOD STATION UNIT ONE

ACTUAL 1994
 COMPLIANCE STATUS - 10CFR 50 APP. I
 CHILD RECEPTOR

----- % OF APP I. -----

	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
GAMMA AIR (MRAD)	5.0	0.04	0.01	0.00	0.00	10.0	0.03
BETA AIR (MRAD)	10.0	0.07	0.02	0.00	0.00	20.0	0.05
TOT. BODY (MREM)	2.5	0.06	0.01	0.00	0.00	5.0	0.04
SKIN (MREM)	7.5	0.06	0.01	0.00	0.00	15.0	0.04
ORGAN (MREM)	7.5	0.00	0.09	0.07	0.03	15.0	0.10
		THYROID	THYROID	THYROID	LIVER THYROID KIDNEY LUNG GI_LLI		THYROID

RESULTS BASED UPON: ODCM ANNEX REVISION 1.0 JANUARY 1994
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

BRAIDWOOD STATION UNIT ONE

ACTUAL 1994
 MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES
 PERIOD OF RELEASE - 01/01/94 TO 12/31/94 CALCULATED 02/05/96
 TEENAGER RECEPTOR
 DATABASE CONTAINS DATA THROUGH 12/31/94

TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
GAMMA AIR (MRAD)	2.01E-03 (N)	4.82E-04 (N)	6.61E-05 (N)	5.22E-05 (N)	2.59E-03 (N)
BETA AIR (MRAD)	7.42E-03 (N)	2.02E-03 (N)	1.54E-04 (N)	1.66E-04 (N)	9.76E-03 (N)
TOT. BODY (MREM)	1.43E-03 (N)	3.38E-04 (N)	3.28E-05 (N)	3.74E-05 (N)	1.84E-03 (N)
SKIN (MREM)	4.25E-03 (N)	1.03E-03 (N)	8.67E-05 (N)	9.90E-05 (N)	5.47E-03 (N)
ORGAN (MREM)	1.94E-04 (E)	4.22E-03 (N)	3.54E-03 (N)	1.51E-03 (N)	9.45E-03 (N)
	THYROID	THYROID	THYROID	LIVER THYROID KIDNEY LUNG GI_LLI	THYROID

RESULTS BASED UPON: ODCM ANNEX REVISION 1.0 JANUARY 1994
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

BRAIDWOOD STATION UNIT ONE

ACTUAL 1994
 COMPLIANCE STATUS - 10CFR 50 APP. I
 TEENAGER RECEPTOR

----- % OF APP I. -----

	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
GAMMA AIR (MRAD)	5.0	0.04	0.01	0.00	0.00	10.0	0.03
BETA AIR (MRAD)	10.0	0.07	0.02	0.00	0.00	20.0	0.05
TOT. BODY (MREM)	2.5	0.06	0.01	0.00	0.00	5.0	0.04
SKIN (MREM)	7.5	0.06	0.01	0.00	0.00	15.0	0.04
ORGAN (MREM)	7.5	0.00	0.06	0.05	0.02	15.0	0.06
		THYROID	THYROID	THYROID	LIVER THYROID KIDNEY LUNG GI_LLI		THYROID

RESULTS BASED UPON: ODCM ANNEX REVISION 1.0 JANUARY 1994
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

BRAIDWOOD STATION UNIT ONE

ACTUAL 1994
 MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES
 PERIOD OF RELEASE - 01/01/94 TO 12/31/94 CALCULATED 02/05/96
 ADULT RECEPTOR
 DATABASE CONTAINS DATA THROUGH 12/31/94

TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
GAMMA AIR (MRAD)	2.01E-03 (N)	4.82E-04 (N)	4.61E-05 (N)	5.22E-05 (N)	2.59E-03 (N)
BETA AIR (MRAD)	7.42E-03 (N)	2.02E-03 (N)	1.54E-04 (N)	1.66E-04 (N)	9.76E-03 (N)
TOT. BODY (MREM)	1.43E-03 (N)	3.38E-04 (N)	3.28E-05 (N)	3.74E-05 (N)	1.84E-03 (N)
SKIN (MREM)	4.25E-03 (N)	1.03E-03 (N)	8.57E-05 (N)	9.90E-05 (N)	5.47E-03 (N)
ORGAN (MREM)	1.74E-04 (N)	4.01E-03 (N)	3.12E-03 (N)	1.42E-03 (N)	8.72E-03 (N)
	THYROID	THYROID	THYROID	LIVER THYROID KIDNEY LUNG GI_LLI	THYROID

RESULTS BASED UPON: ODCM ANNEX REVISION 1.0 JANUARY 1994
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

BRAIDWOOD STATION UNIT ONE

ACTUAL 1994
 COMPLIANCE STATUS - 10CFR 50 APP. I
 ADULT RECEPTOR

----- % OF APP I. -----

	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
GAMMA AIR (MRAD)	5.0	0.04	0.01	0.00	0.00	10.0	0.03
BETA AIR (MRAD)	10.0	0.07	0.02	0.00	0.00	20.0	0.05
TOT. BODY (MREM)	2.5	0.06	0.01	0.00	0.00	5.0	0.04
SKIN (MREM)	7.5	0.06	0.01	0.00	0.00	15.0	0.04
ORGAN (MREM)	7.5	0.00	0.05	0.04	0.02	15.0	0.06
		THYROID	THYROID	THYROID	LIVER THYROID KIDNEY LUNG GI_LLI		THYROID

RESULTS BASED UPON: ODCM ANNEX REVISION 1.0 JANUARY 1994
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

BRAIDWOOD STATION UNIT TWO

ACTUAL 1994
 MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES
 PERIOD OF RELEASE - 01/01/94 TO 12/31/94 CALCULATED 02/05/96
 INFANT RECEPTOR
 DATABASE CONTAINS DATA THROUGH 12/31/94

TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
GAMMA AIR (MRAD)	8.31E-03 (N)	4.12E-03 (N)	2.26E-05 (N)	1.02E-05 (N)	1.25E-02 (N)
BETA AIR (MRAD)	3.35E-02 (N)	1.76E-02 (N)	5.31E-05 (N)	2.88E-05 (N)	5.12E-02 (N)
TOT. BODY (MREM)	5.86E-03 (N)	2.88E-03 (N)	1.65E-05 (N)	7.38E-06 (N)	8.76E-03 (N)
SKIN (MREM)	1.75E-02 (N)	8.59E-03 (N)	3.90E-05 (N)	1.85E-05 (N)	2.61E-02 (N)
ORGAN (MREM)	1.61E-03 (N)	8.25E-03 (E)	2.70E-03 (E)	3.30E-03 (E)	1.58E-02 (E)
	THYROID	THYROID	THYROID	THYROID	THYROID

RESULTS BASED UPON:

ODCM ANNEX REVISION 1.0 JANUARY 1994
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

BRAIDWOOD STATION UNIT TWO

ACTUAL 1994
 COMPLIANCE STATUS - 10CFR 50 APP. I
 INFANT RECEPTOR

----- % OF APP I. -----

	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
GAMMA AIR (MRAD)	5.0	0.17	0.08	0.00	0.00	10.0	0.12
BETA AIR (MRAD)	10.0	0.33	0.18	0.00	0.00	20.0	0.26
TOT. BODY (MREM)	2.5	0.23	0.12	0.00	0.00	5.0	0.18
SKIN (MREM)	7.5	0.23	0.11	0.00	0.00	15.0	0.17
ORGAN (MREM)	7.5	0.02	0.11	0.04	0.04	15.0	0.11
		THYROID	THYROID	THYROID	THYROID		THYROID

RESULTS BASED UPON:

ODCM ANNEX REVISION 1.0 JANUARY 1994
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

BRAIDWOOD STATION UNIT TWO

ACTUAL 1994
 MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES
 PERIOD OF RELEASE - 01/01/94 TO 12/31/94 CALCULATED 02/05/96
 CHILD RECEPTOR
 DATABASE CONTAINS DATA THROUGH 12/31/94

TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
GAMMA AIR (MRAD)	8.31E-03 (N)	4.12E-03 (N)	2.26E-05 (N)	1.02E-05 (N)	1.25E-02 (N)
BETA AIR (MRAD)	3.35E-02 (N)	1.76E-02 (N)	5.31E-05 (N)	2.88E-05 (N)	5.12E-02 (N)
TOT. BODY (MREM)	5.86E-03 (N)	2.88E-03 (N)	1.65E-05 (N)	7.38E-06 (N)	8.76E-03 (N)
SKIN (MREM)	1.75E-02 (N)	8.59E-03 (N)	3.90E-05 (N)	1.85E-05 (N)	2.61E-02 (N)
ORGAN (MREM)	1.68E-03 (N)	2.58E-02 (N)	5.07E-02 (N)	5.15E-03 (N)	8.33E-02 (N)
	THYROID	THYROID	THYROID	THYROID	THYROID

RESULTS BASED UPON: ODCM ANNEX REVISION 1.0 JANUARY 1994
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

BRAIDWOOD STATION UNIT TWO

ACTUAL 1994
 COMPLIANCE STATUS - 10CFR 50 APP. I
 CHILD RECEPTOR

----- % OF APP I. -----

	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
GAMMA AIR (MRAD)	5.0	0.17	0.08	0.00	0.00	10.0	0.12
BETA AIR (MRAD)	10.0	0.33	0.18	0.00	0.00	20.0	0.26
TOT. BODY (MREM)	2.5	0.23	0.12	0.00	0.00	5.0	0.18
SKIN (MREM)	7.5	0.23	0.11	0.00	0.00	15.0	0.17
ORGAN (MREM)	7.5	0.02	0.34	0.68	0.07	15.0	0.56
		THYROID	THYROID	THYROID	THYROID		THYROID

RESULTS BASED UPON: ODCM ANNEX REVISION 1.0 JANUARY 1994
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

BRAIDWOOD STATION UNIT TWO

ACTUAL 1994
 MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES
 PERIOD OF RELEASE - 01/01/94 TO 12/31/94 CALCULATED 02/05/96
 TEENAGER RECEPTOR
 DATABASE CONTAINS DATA THROUGH 12/31/94

TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
GAMMA AIR (MRAD)	8.31E-03 (N)	4.12E-03 (N)	2.26E-05 (N)	1.02E-05 (N)	1.25E-02 (N)
BETA AIR (MRAD)	3.35E-02 (N)	1.76E-02 (N)	5.31E-05 (N)	2.88E-05 (N)	5.12E-02 (N)
TOT. BODY (MREM)	5.86E-03 (N)	2.88E-03 (N)	1.65E-05 (N)	7.38E-06 (N)	8.76E-03 (N)
SKIN (MREM)	1.75E-02 (N)	8.59E-03 (N)	3.90E-05 (N)	1.85E-05 (N)	2.61E-02 (N)
ORGAN (MREM)	1.44E-03 (N)	1.72E-02 (N)	3.29E-02 (N)	3.53E-03 (N)	5.51E-02 (N)
	THYROID	THYROID	THYROID	THYROID	THYROID

RESULTS BASED UPON: ODCM ANNEX REVISION 1.0 JANUARY 1994
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

BRAIDWOOD STATION UNIT TWO

ACTUAL 1994
 COMPLIANCE STATUS - 10CFR 50 APP. I
 TEENAGER RECEPTOR

----- % OF APP I. -----

	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
GAMMA AIR (MRAD)	5.0	0.17	0.08	0.00	0.00	10.0	0.12
BETA AIR (MRAD)	10.0	0.33	0.18	0.00	0.00	20.0	0.26
TOT. BODY (MREM)	2.5	0.23	0.12	0.00	0.00	5.0	0.18
SKIN (MREM)	7.5	0.23	0.11	0.00	0.00	15.0	0.17
ORGAN (MREM)	7.5	0.02	0.23	0.44	0.05	15.0	0.37
		THYROID	THYROID	THYROID	THYROID		THYROID

RESULTS BASED UPON: ODCM ANNEX REVISION 1.0 JANUARY 1994
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

BRAIDWOOD STATION UNIT TWO

ACTUAL 1994
 MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES
 PERIOD OF RELEASE - 01/01/94 TO 12/31/94 CALCULATED 02/05/96
 ADULT RECEPTOR
 DATABASE CONTAINS DATA THROUGH 12/31/94

TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
GAMMA AIR (MRAD)	8.31E-03 (N)	4.12E-03 (N)	2.26E-05 (N)	1.02E-05 (N)	1.25E-02 (N)
BETA AIR (MRAD)	3.35E-02 (N)	1.76E-02 (N)	5.31E-05 (N)	2.88E-05 (N)	5.12E-02 (N)
TOT. BODY (MREM)	5.86E-03 (N)	2.88E-03 (N)	1.65E-05 (N)	7.38E-06 (N)	8.76E-03 (N)
SKIN (MREM)	1.75E-02 (N)	8.59E-03 (N)	3.90E-05 (N)	1.85E-05 (N)	2.61E-02 (N)
ORGAN (MREM)	1.27E-03 (N)	1.75E-02 (N)	2.89E-02 (N)	3.30E-03 (N)	5.10E-02 (N)
	THYROID	THYROID	THYROID	THYROID	THYROID

RESULTS BASED UPON: ODCM ANNEX REVISION 1.0 JANUARY 1994
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

BRAIDWOOD STATION UNIT TWO

ACTUAL 1994
 COMPLIANCE STATUS - 10CFR 50 APP. I
 ADULT RECEPTOR

----- % OF APP I. -----

	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
GAMMA AIR (MRAD)	5.0	0.17	0.08	0.00	0.00	10.0	0.12
BETA AIR (MRAD)	10.0	0.33	0.18	0.00	0.00	20.0	0.26
TOT. BODY (MREM)	2.5	0.23	0.12	0.00	0.00	5.0	0.18
SKIN (MREM)	7.5	0.23	0.11	0.00	0.00	15.0	0.17
ORGAN (MREM)	7.5	0.02	0.23	0.39	0.04	15.0	0.34
	THYROID	THYROID	THYROID	THYROID	THYROID	THYROID	THYROID

RESULTS BASED UPON: ODCM ANNEX REVISION 1.0 JANUARY 1994
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995