

Exelon Generation Company, LLC
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May 15, 2003

United States Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, D.C. 20555

LaSalle County Station, Units 1 and 2
Facility Operating License Nos. NPF-11 and NPF-18
NRC Docket Nos. 50-373 and 50-374

Subject: 2002 Annual Radiological Environmental Operating Report

Enclosed is the 2002 Annual Radiological Environmental Operating Report for Exelon Generation Company (EGC), LLC, LaSalle County Station, submitted in accordance with Technical Specification 5.6.2, "Annual Radiological Environmental Operating Report." This report contains the results of the Radiological Environmental and Meteorological Monitoring Programs.

Should you have any questions concerning this letter, please contact Mr. Glen Kaegi, Regulatory Assurance Manager, at (815) 415-2800.

Respectfully,

Susan R. Sandahl for

George P. Barnes
Site Vice President
LaSalle County Station

Attachment

cc: Regional Administrator - NRC Region III
NRC Senior Resident Inspector - LaSalle County Station

JE25

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Respectfully,



George P. Barnes
Site Vice President
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cc: Regional Administrator - NRC Region III
NRC Senior Resident Inspector - LaSalle County Station

**LASALLE COUNTY STATION
ANNUAL RADIOLOGICAL
ENVIRONMENTAL OPERATING
REPORT**

2002

MAY 2003

TABLE OF CONTENTS

	<u>Page</u>
INTRODUCTION.....	1
SUMMARY	2
 1.0 EFFLUENTS	
1.1 Gaseous Effluents to the Atmosphere	3
1.2 Liquids Released to Illinois River	3
 2.0 SOLID RADIOACTIVE WASTE	3
 3.0 DOSE TO MAN	
3.1 Gaseous Effluent Pathways	3
3.1.1 Noble Gases.....	3
3.1.1.1 Gamma Dose Rates.....	3
3.1.1.2 Beta Air and Skin Rates.....	4
3.1.2 Radioactive Iodine.....	4
3.1.2.1 Iodine Concentrations in Air.....	4
3.1.2.2 Dose to Thyroid	4
3.1.3 Concentrations of Particulates in Air.....	5
3.2 Liquid Effluent Pathways.....	5
3.3 Assessment of Dose to Member of Public.....	5
 4.0 SITE METEOROLOGY.....	6
 5.0 ENVIRONMENTAL MONITORING.....	6
5.1 Gamma Radiation	6
5.2 Airborne I-131 and Particulate Radioactivity	6
5.3 Aquatic Radioactivity	7
5.4 Milk.....	7
5.5 Terrestrial Radioactivity	8
5.6 Sample Collections	8
5.7 Program Modifications.....	8
 6.0 ANALYTICAL PROCEDURES	8
 7.0 MILCH ANIMALS AND NEAREST LIVESTOCK CENSUS.....	8
 8.0 NEAREST RESIDENT CENSUS	8
 9.0 INTERLABORATORY COMPARISON PROGRAM RESULTS	8
 10.0 ERRATADATA.....	8

TABLE OF CONTENTS (continued)

	<u>Page</u>
APPENDIX I - DATA TABLES AND FIGURES	I-1
Station Releases	
Table 1.1-1 Gaseous Effluents	I-2
Table 1.2-1 Liquid Effluents	I-3
Table 2.0-1 Solid Waste Shipped Offsite for Burial or Disposal	I-4
Figure 3.1-1 - Figure 3.1-4 Isodose and Concentration Contours	I-5
Table 3.1-1 Maximum Doses Resulting from Airborne Releases.....	I-9
Table 3.2-1 Maximum Doses Resulting from Liquid Discharges.....	I-13
Table 3.3-1 10CFR20 Compliance Assessment.....	I-14
Table 3.4-1 Maximum Doses Resulting from Airborne Releases Based on Concurrent Meteorological Data.....	I-18
Environmental Monitoring	
Figure 5.0-1 Inner Ring TLD Locations	I-20
Figure 5.0-2 Outer Ring TLD Locations	I-21
Figure 5.0-3 Fixed Air Sampling and TLD Sites.....	I-22
Figure 5.0-4 Ingestion and Waterborne Exposure Pathway Sample Locations.....	I-23
Table 5.0-1 Radiological Environmental Monitoring Locations.....	I-24
Table 5.0-2 Radiological Environmental Monitoring Program, Sampling Locations and Sample Collection and Analyses	I-25
Table 5.0-3 - Table 5.0-6 Radiological Environmental Monitoring Program Quarterly Summary.....	I-29
APPENDIX II - METEOROLOGICAL DATA	II-1
APPENDIX III - 2001 REMP SAMPLE RESULTS	III-1
APPENDIX IV - INTERLABORATORY COMPARISON PROGRAM RESULTS	IV-1
APPENDIX V - ERRATA DATA (If applicable).....	V-1

INTRODUCTION

LaSalle County Station, a two-unit BWR station is located near Marseilles, Illinois in LaSalle County, 3.5 miles south of the Illinois River. The output of Unit one is 1183 MWe; the output of Unit 2 is 1187 MWe. Unit No. 1 loaded fuel in March 1982. Unit No. 2 loaded fuel in late December 1983. The station has been designed to keep releases to the environment at levels below those specified in the regulations.

Liquid effluents from LaSalle County Station are released to the Illinois River in controlled batches after radioassay of each batch. Gaseous effluents are released to the atmosphere after delay to permit decay of short-lived (noble) gases. Releases to the atmosphere are calculated on the basis of analyses of routine 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 and reported to the Nuclear Regulatory Commission as required per Technical Specifications. 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 LaSalle County Station to measure changes in radiation or radioactivity levels that may be attributable to station operations. If significant changes attributable to LaSalle County 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 many other pathways which are less significant in terms of radiation protection.

SUMMARY

Gaseous and liquid effluents for the period contributed to only a small fraction of the LaSalle County Station Technical Specification limits. Calculations of environmental concentrations based on effluent, Illinois River flow, and meteorological data for the period indicate that consumption by the public of radionuclides attributable to LaSalle County Station does not exceed 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 1.11E-01 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 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 $1.33\text{E}+04$ curies of fission and activation gases were released with a maximum quarterly average release rate of $7.57\text{E}+02$ $\mu\text{Ci}/\text{sec}$.

A total of $3.16\text{E}-01$ curies of I-131 were released during the year with a maximum quarterly average release rate of $2.05\text{E}-02$ $\mu\text{Ci}/\text{sec}$.

A total of $2.81\text{E}-02$ curies of beta-gamma emitters was released as airborne particulate matter with a maximum quarterly average release rate of $1.92\text{E}-03$ $\mu\text{Ci}/\text{sec}$. A total of $4.58\text{E}-05$ curies of alpha-emitting radionuclides was also released.

A total of $1.14\text{E}+02$ curies of tritium was released with a maximum quarterly average release rate of $4.93\text{E}+00$ $\mu\text{Ci}/\text{sec}$.

1.2 Liquids Released to Illinois River

There were zero batch liquid releases in 2002. Continuous release path activity was below applicable Lower Limits of Detection.

2.0 SOLID RADIOACTIVE WASTE

Solid radioactive wastes were shipped by truck to the Envirocare Disposal Facility or to a waste processor. For further detail, refer to the LaSalle 2002 Radioactive Effluent Report. The submittal date of this report was May 1, 2003.

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

Unit 1 and Unit 2 gaseous releases at LaSalle County Station are reported as Unit 1 releases due to a single station vent stack (SVS) release point. Offsite Gamma air and whole 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. Doses based on concurrent meteorological data are shown in Table 3.4-1. 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 meteorological data, the maximum total body dose to an adult would be $1.11\text{E}-01$ mrem (Table

3.1-1) for the year, with an occupancy or shielding factor of 0.7 included. The maximum total body dose based on measured effluents and concurrent meteorological data would be 6.72E-02 mrem. (Table 3.4-1).

The maximum gamma air dose was 1.47E-01 mrad (Table 3.1-1) and 2.38E-01 mrad based on concurrent meteorological data (Table 3.4-1).

3.1.1.2 Beta Air and Skin 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 the 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 1.18E-01 mrem (Table 3.1-1) and 7.97E-02 mrem (Table 3.4-1) based on concurrent meteorological data. The maximum offsite beta air dose for the year was 6.74E-03 mrad (Table 3.1-1) and 2.35E-02 mrad (Table 3.4-1) based on concurrent meteorological data. 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. The radioiodine, I-131, released during routine operation of the plant, may be made available to man resulting in a dose to the thyroid. The principal pathway of interest for this radionuclide is ingestion of radioiodine in milk.

3.1.2.1 Iodine 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 offsite concentration is estimated to be 1.70E+01 pCi/m³ for the year (Table 3.4-1).

3.1.2.2 Dose to Thyroid

The hypothetical thyroid dose to a maximum exposed individual 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 thyroid dose due to I-131 was 4.10E-01 mrem (child) for 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 offsite average level is estimated to be $1.46\text{E}-04$ pCi/m³. (Table 3.4-1)

3.2 Liquid Effluent Pathways

The three principal pathways through the aquatic environment for potential doses to man from liquid waste are ingestion of potable water, eating aquatic foods, and exposure while on the shoreline. Not all of these pathways are applicable at a given time 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 gastro-intestinal tracts, thyroid, bone, skin; specific parameters for use in the equations are given in the Offsite Dose Calculation Manual. The maximum whole body dose was $0.00\text{E}+00$ and organ dose was $0.00\text{E}+00$ for the year (Table 3.2-1).

3.3 Assessment of Dose to Member of Public

During the period January to December, 2002, LaSalle County Station did not exceed these limits as shown in Table 3.1-1 and Table 3.2-1 (based on yearly average meteorological data), and as shown in Figure 3.1-1 (based on concurrent meteorological data), and as shown in Table 3.3-1:

- The Radiological Effluent Technical Standards 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 mrads for gamma radiation or 20 mrad for beta radiation during any calendar year).
- The RETS limits on dose to a member of the public 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 mrem to any organ during any calendar quarter; 15 mrem to any organ during any calendar year).
- The 10CFR20 limit on Total Effective Dose Equivalent to individual members of the public (100 mrem).

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

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 375' level and wind speed class by atmospheric stability class determined for the temperature difference between the 375' and 33' levels. Data recovery for these measurements was 99.5% during 2002 (Table 3.4-1)

5.0 ENVIRONMENTAL MONITORING

Table 5.0-1 provides an outline of the Radiological Environmental Monitoring Program (REMP) as required in the current Technical Standards. Tables 5.0-2 lists the program's sampling locations, collection frequencies and analyses for all samples collected. Tables 5.0-3 to 5.0-6 summarize data for the year. A detailed listing of all data is given in Appendix III.

Specific findings for various environmental media are discussed below.

5.1 Gamma Radiation

External radiation dose from onsite sources and noble gases released to the atmosphere was measured using CaF_2 thermoluminescent dosimeters (TLDs). Each location normally consists of 2 TLD sets. The quarterly average external radiation dose for the year was 23.8 mR at the indicator locations and 21.3 mR at the control locations. TLD results are listed in Table 4.0 of Appendix III and locations are shown in Figures 5.0-1 and 5.0-2.

Quarterly external radiation dose at indicator air sampling locations averaged 23.3 mR and is similar to levels measured in 1986 (17.1 mR), 1987 (17.8 mR), 1988 (16.5 mR), 1989 (17.6 mR), 1990 (17.8 mR), 1991 (17.7 mR), 1992 (15.5 mR), 1993 (14.5 mR), 1994 (15.4 mR), 1995 (15.3 mR), 1996 (15.9 mR) and 1997 (16.1 mR), 1998 (17.0 mR), 1999 (17.0 mR), 2000 (17.9 mR) and 2001 (20.1 mR). These differences are not statistically significant.

5.2 Airborne I-131 and Particulate Radioactivity

Locations of the samplers are shown in Figure 5.0-3. Airborne I-131 remained below the LLD of 0.07 pCi/m^3 throughout the year.

Gross beta concentrations ranged from 0.011 to 0.053 pCi/m^3 and averaged 0.027 pCi/m^3 and were similar to levels measured in 1985 (0.025 pCi/m^3), 1986 (0.027 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), 1991 (0.022 pCi/m^3), 1992 (0.022 pCi/m^3), 1993 (0.022 pCi/m^3), 1994 (0.022 pCi/m^3), 1995 (0.021 pCi/m^3), 1996 (0.021 pCi/m^3), 1997 (0.022 pCi/m^3), 1998 (0.024 pCi/m^3), 1999 (0.027 pCi/m^3), 2000 (0.028 pCi/m^3) and 2001 (0.027 pCi/m^3).

Gamma isotopic results were below the LLD level of 0.01 pCi/m³ in all quarterly composites.

No activity attributable to station operation was detected in any sample.

5.3 Aquatic Radioactivity

Well water was collected quarterly from one onsite well and one offsite well and analyzed for tritium and gamma-emitting nuclides. All results were below the limits of detection, indicating that there was no measurable amount of radioactivity due to the Station's releases.

Weekly surface water samples from the Illinois River at Seneca and Illinois River Downstream were composited monthly and analyzed for gamma and beta-emitting nuclides. Weekly samples from the same locations were composited quarterly and analyzed for tritium. None of the composited samples indicated the presence of gamma-emitting nuclides above their respective LLD levels.

Gross beta activity averaged 5.3 pCi/L in the Illinois River at Seneca samples, with a range of 3.8-8.4 pCi/L. The Illinois River, Downstream sample averaged 5.5 pCi/L, with a range of 4.2-7.4 pCi/L.

Tritium activity in the quarterly upstream samples, Illinois River at Seneca, averaged 327 pCi/L with a maximum fourth quarter concentration of 702 pCi/L. In the Illinois River Downstream samples, tritium activity averaged 417 pCi/L with a maximum fourth quarter concentration of 827 pCi/L. These values are well below the reporting level of 30,000 pCi/L.

Sediment samples were collected twice a year from two indicator locations (Illinois River, Downstream) and analyzed for gamma-emitters. Cs-134 and Cs-137 concentrations were below the detection limits of 0.15 pCi/g dry weight and 0.18 pCi/g dry weight, respectively, in all samples.

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

5.4 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 remained below the detection limits of 0.5 pCi/L (May - October) and 5.0 pCi/L (November - April). Cs-134, Cs-137 and Ba/La-140 were below the LLD levels of 15, 18 and 15 pCi/L, respectively.

5.5 Terrestrial Radioactivity

Vegetables were collected in the third quarter and analyzed for iodine-131 and gamma-emitting nuclides. All nuclides were below the limits of detection, indicating there was no measurable amount of radioactivity attributable to the Station's releases.

5.6 Sample Collections

All samples were collected as scheduled except those listed in the Listing of Missed Samples, Section 2 of Appendix III.

5.7 Program Modifications

There were no changes to the program in 2002.

6.0 ANALYTICAL PROCEDURES

Procedures used during the period covered in this report remained unchanged. A summary of the procedures used for analyzing radioactivity in environmental samples is given in Appendix VI of the Annual Radiological Environmental Operating Report for 1993. The submittal date for this report was April 26, 1994.

7.0 MILCH ANIMALS AND NEAREST LIVESTOCK CENSUS

A census of milch animals was conducted within a 6.2-mile radius of the Station. The survey was conducted by "door-to-door" canvas by A. Lewis on August 26, 2002. The nearest livestock census was conducted by A. Lewis on August 26, 2002. The results of each census are presented on pages 31 and 32 of Appendix III.

8.0 NEAREST RESIDENT CENSUS

A census of the nearest residences within a 6.2-mile radius was conducted by A. Lewis on August 26, 2002.

Results of the nearest residence census are presented on page 33 of Appendix III.

9.0 INTERLABORATORY COMPARISON PROGRAM RESULTS

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

10.0 ERRATA DATA

There is no errata data for 2002.

APPENDIX I

DATA TABLES AND FIGURES

Table 1.1-1

LASALLE COUNTY NUCLEAR POWER STATION
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2002)
UNITS ONE AND TWO
DOCKET NUMBERS 50-373 AND 50-374
GASEOUS EFFLUENTS-SUMMATION OF ALL RELEASES

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

A. Fission and Activation Gas Releases

1. Total Release Activity	Ci	1.31E+03	6.96E+03	2.25E+03	3.77E+03	35%
2. Average Release Rate	uCi/sec	1.68E+02	7.57E+02	2.83E+02	4.74E+02	
3. Percent of Technical Specification Limit	%	*	*	*	*	

B. Iodine Releases

1. Total I-131 Activity	Ci	2.95E-02	4.42E-02	7.92E-02	1.63E-01	35%
2. Average Release Rate	uCi/sec	3.80E-03	5.63E-03	9.96E-03	2.05E-02	
3. Percent of Technical Specification Limit	%	*	*	*	*	

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

1. Gross Activity	Ci	6.69E-04	2.78E-03	1.53E-02	9.35E-03	33%
2. Average Release Rate	uCi/sec	8.60E-05	3.54E-04	1.92E-03	1.18E-03	
3. Percent of Technical Specification Limit	%	*	*	*	*	
3. Gross Alpha Activity	Ci	<1.00E-11	<1.00E-11	2.71E-05	1.87E-05	

D. Tritium Releases

1. Total Release Activity	Ci	3.84E+01	1.54E+01	2.65E+01	3.50E+01	21%
2. Average Release Rate	uCi/sec	4.93E+00	1.96E+00	3.21E+00	4.41E+00	
3. Percent of Technical Specification Limit	%	*	*	*	*	

** This information is contained in the Radiological Impact on Man section of the report.

* < indicates activity of sample is less than LLD given in uCi/ml

Table 1.2-1

LASALLE COUNTY NUCLEAR POWER STATION
 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2002)
 LIQUID RELEASES
 UNIT 1 and UNIT 2
 SUMMATION OF ALL LIQUID RELEASES

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

A. Fission and Activation Products

1. Total Activity Released	Ci	<LLD	<LLD	<LLD	<LLD	N/A
2. Average Concentration Released	uCi/ml	<LLD	<LLD	<LLD	<LLD	
3. Percent of Applicable Limit	%	*	*	*	*	

B. Tritium

1. Total Activity Released	Ci	<LLD	<LLD	<LLD	<LLD	N/A
2. Average Concentration Released	uCi/ml	<LLD	<LLD	<LLD	<LLD	
3. Percent of Applicable Limit	%	*	*	*	*	

C. Dissolved Noble Gases

1. Total Activity Released	Ci	<LLD	<LLD	<LLD	<LLD	N/A
2. Average Concentration Released	uCi/ml	<LLD	<LLD	<LLD	<LLD	
3. Percent of Applicable Limit	%	*	*	*	*	

D. Gross Alpha

1. Total Activity Released (estimate)	Ci	<LLD	<LLD	<LLD	<LLD	N/A
2. Average Concentration Released	uCi/ml	<LLD	<LLD	<LLD	<LLD	
3. Percent of Applicable Limit	%	*	*	*	*	

E. Volume of Liquid Waste to Discharge	liters	0.00E+00	0.00E+00	0.00E+00	0.00E+00	N/A
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F. Volume of Dilution Water	liters	0.00E+00	0.00E+00	0.00E+00	0.00E+00	N/A
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*" This information is contained in the Radiological Impact on Man section of the report.

"<" indicates activity of sample is less than LLD given in uCi/ml

TABLE 2.0-1

Table 2.0-1 has been deliberately deleted. For Solid Waste Disposal detail, refer to the LaSalle County Station 2002 Effluent Report.

Figure 3.1-1

**Estimated Cumulative Gamma Dose (in mrem)
from the LaSalle Station for the period
January-December 2002**

Isopleth Labels

Small figure - multiply by 10^3

Large figure - multiply by 10^4

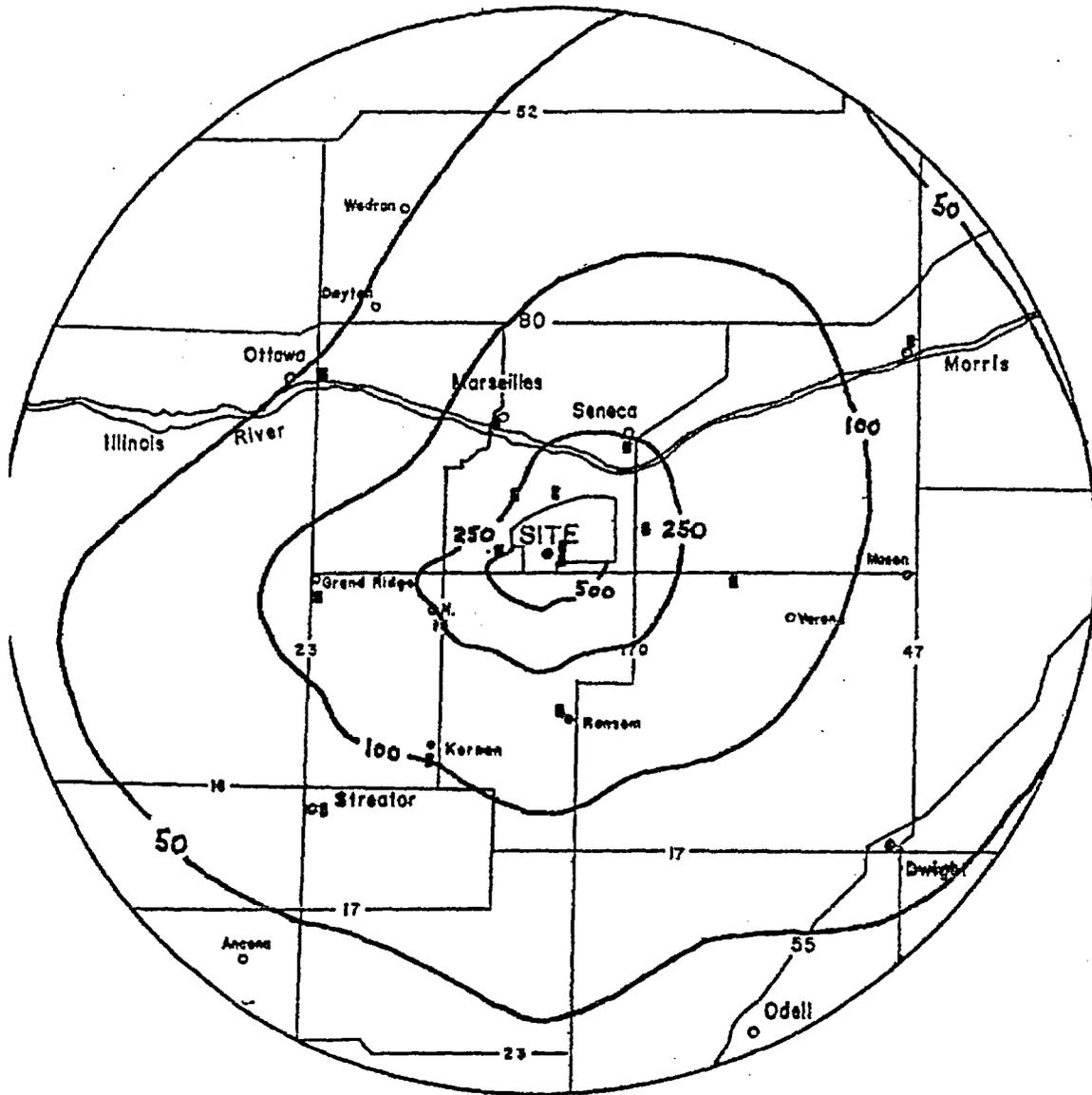
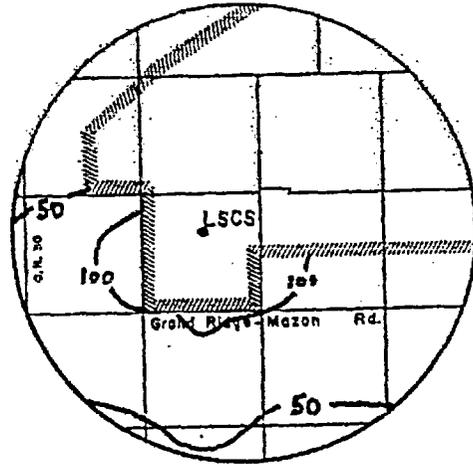


Figure 3.1-2

Estimated Total Concentrations (in pCi/m³)
of Noble Gases from the LaSalle Station
for the period January-December 2002

Isopleth Labels

Small figure - multiply by 10⁻¹

Large figure - multiply by 10⁻¹

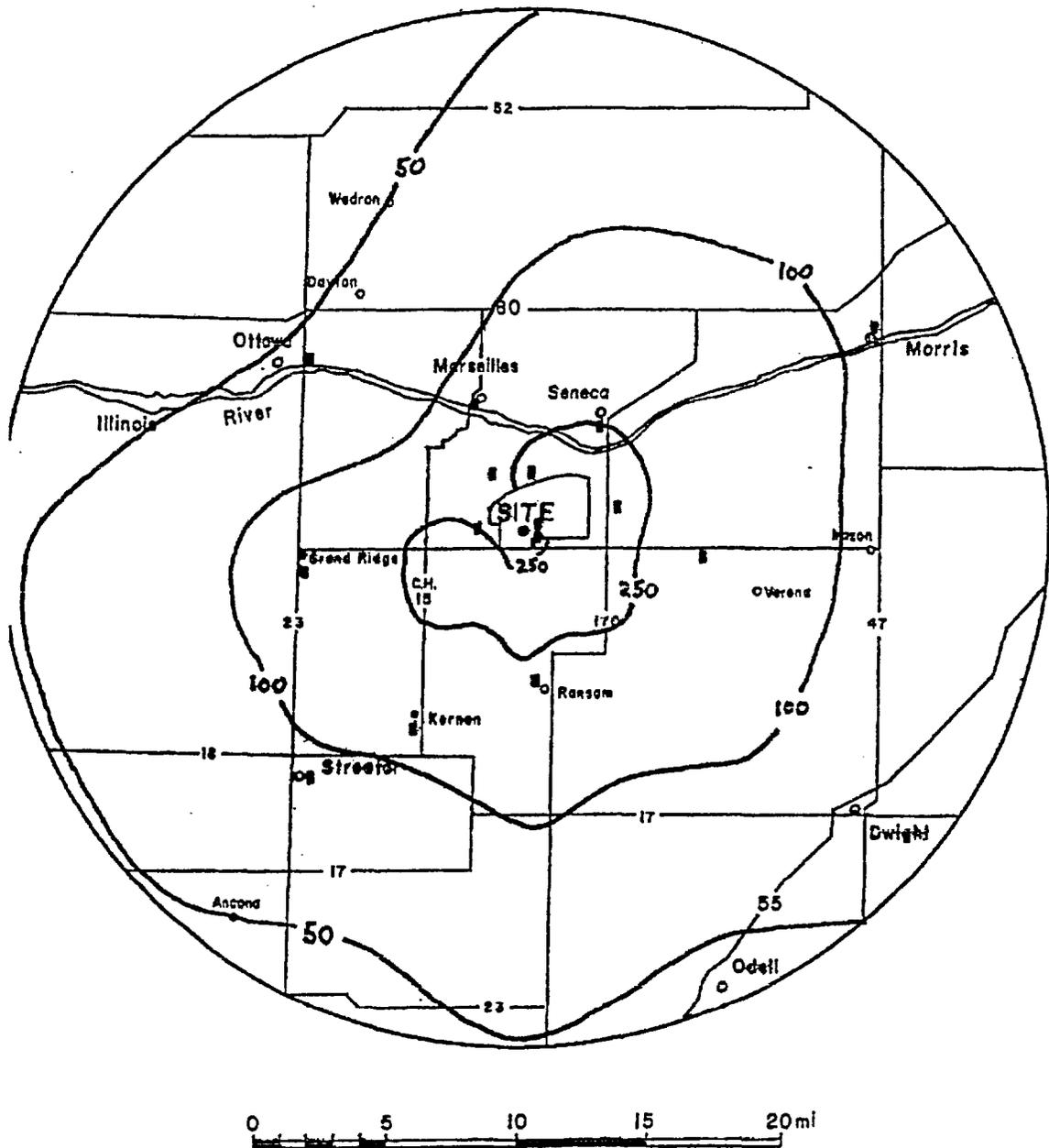
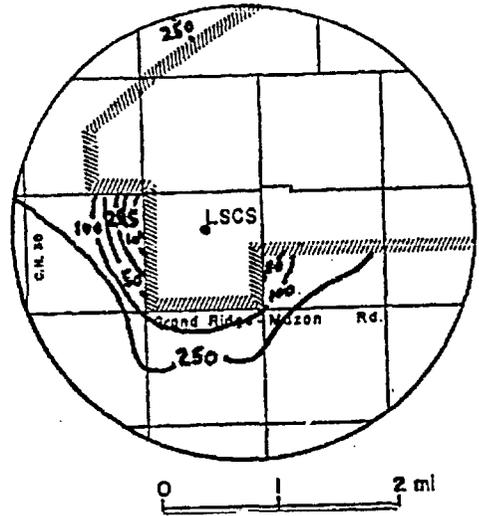


Figure 3.1-3

Estimated Total Concentrations (In pCi/m³)
of Iodines from the LaSalle Station for
the period January-December 2002

Isopleth Labels

Small figure - multiply by 10⁻¹

Large figure - multiply by 10⁻¹

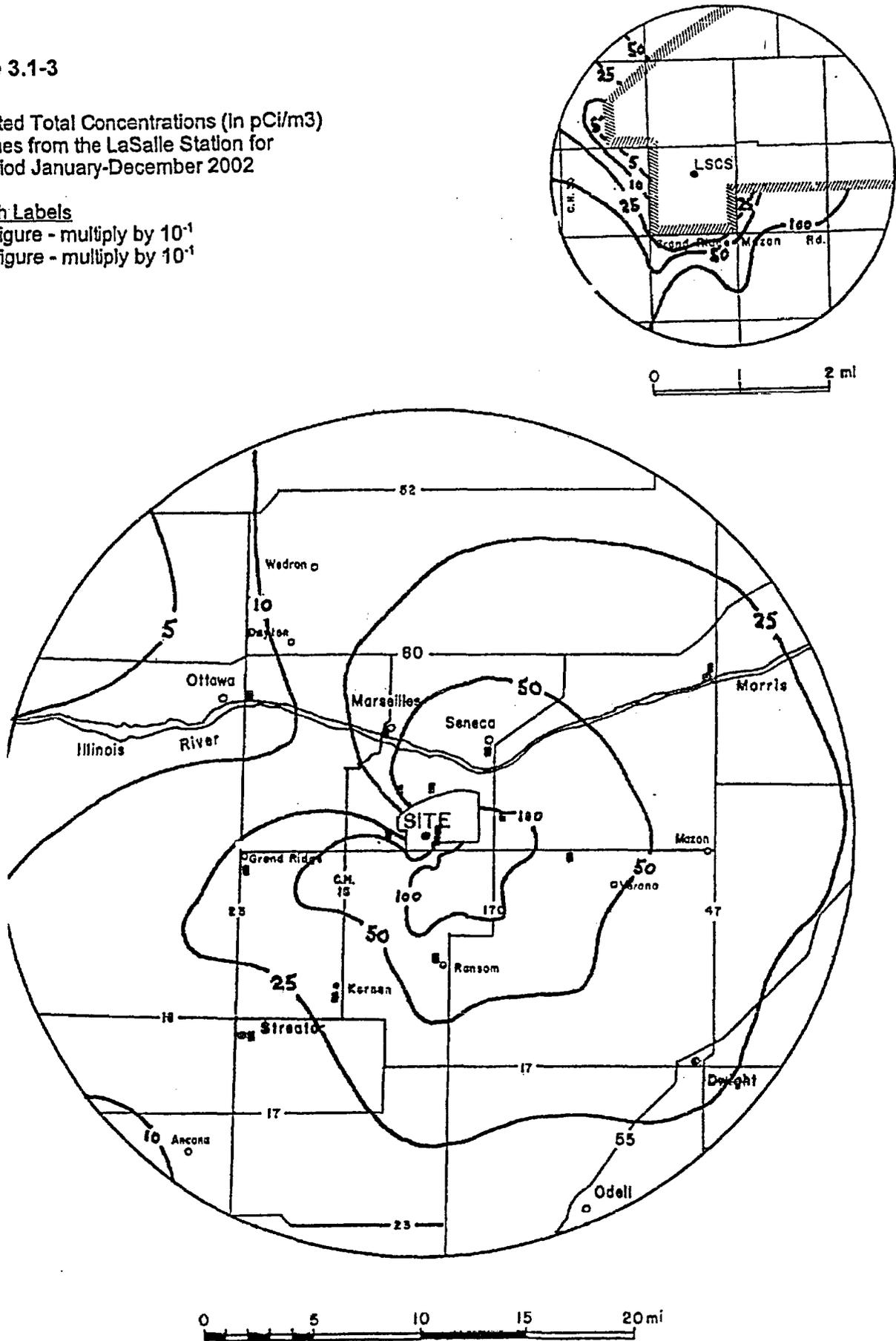


Figure 3.1-4

Estimated Total Concentrations (in pCi/m³)
of Particulates from the LaSalle Station
for the period January-December 2002

Isopleth Labels

Small figure - multiply by 10⁻⁶
Large figure - multiply by 10⁻⁸

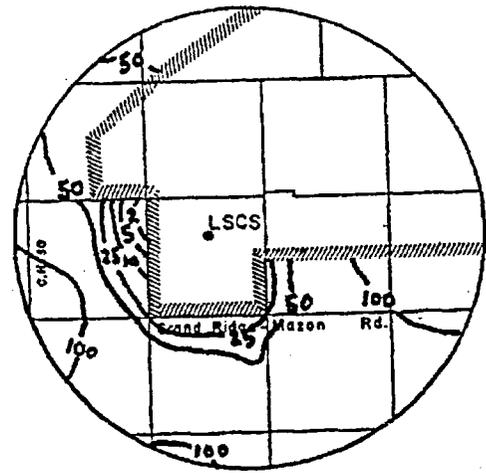


Table 3.1-1

LASALLE STATION UNIT ONE

ACTUAL 2002
 MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES
 PERIOD OF RELEASE - 01/01/02 TO 12/31/02 CALCULATED 04/04/03
 INFANT RECEPTOR

TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
GAMMA AIR (MRAD)	2.00E-02 (WSW)	4.99E-02 (WSW)	3.78E-02 (WSW)	3.91E-02 (WSW)	1.47E-01 (WSW)
BETA AIR (MRAD)	7.25E-04 (ESE)	2.77E-03 (ESE)	1.33E-03 (ESE)	1.92E-03 (ESE)	6.74E-03 (ESE)
TOT. BODY (MREM)	1.51E-02 (WSW)	3.77E-02 (WSW)	2.86E-02 (WSW)	2.95E-02 (WSW)	1.11E-01 (WSW)
SKIN (MREM)	1.59E-02 (WSW)	4.01E-02 (WSW)	3.01E-02 (WSW)	3.14E-02 (WSW)	1.28E-01 (WSW)
ORGAN (MREM)	3.89E-03 (ESE)	6.19E-02 (ESE)	1.94E-01 (ESE)	1.38E-01 (ESE)	3.97E-01 (ESE)

THYROID THYROID THYROID THYROID THYROID
 THIS IS A REPORT FOR THE CALENDAR YEAR 2002

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	0.40	1.00	0.76	0.78	10.0	1.47
BETA AIR (MRAD)	10.0	0.01	0.03	0.01	0.02	20.0	0.03
TOT. BODY (MREM)	2.5	0.61	1.51	1.14	1.18	5.0	2.22
SKIN (MREM)	7.5	0.21	0.53	0.40	0.42	15.0	0.78
ORGAN (MREM)	7.5	0.05	0.83	2.58	1.84	15.0	2.65

THYROID THYROID THYROID THYROID THYROID

RESULTS BASED UPON: ODCM ANNEX REVISION 3.0 MAY 2001
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

Table 3.1-1 (continued)

LASALLE STATION UNIT ONE

ACTUAL 2002
 MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES
 PERIOD OF RELEASE - 01/01/02 TO 12/31/02 CALCULATED 04/04/03
 CHILD RECEPTOR

TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
GAMMA AIR (MRAD)	2.00E-02 (WSW)	4.99E-02 (WSW)	3.78E-02 (WSW)	3.91E-02 (WSW)	1.47E-01 (WSW)
BETA AIR (MRAD)	7.25E-04 (ESE)	2.77E-03 (ESE)	1.33E-03 (ESE)	1.92E-03 (ESE)	6.74E-03 (ESE)
TOT. BODY (MREM)	1.51E-02 (WSW)	3.77E-02 (WSW)	2.86E-02 (WSW)	2.95E-02 (WSW)	1.11E-01 (WSW)
SKIN (MREM)	1.59E-02 (WSW)	4.01E-02 (WSW)	3.01E-02 (WSW)	3.14E-02 (WSW)	1.18E-01 (WSW)
ORGAN (MREM)	3.25E-03 (NNE)	6.56E-02 (ESE)	2.00E-01 (ESE)	1.41E-01 (ESE)	4.10E-01 (ESE)
	THYROID	THYROID	THYROID	THYROID	THYROID

THIS IS A REPORT FOR THE CALENDAR YEAR 2002

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	0.40	1.00	0.76	0.78	10.0	1.47
BETA AIR (MRAD)	10.0	0.01	0.03	0.01	0.02	20.0	0.03
TOT. BODY (MREM)	2.5	0.61	1.51	1.14	1.18	5.0	2.22
SKIN (MREM)	7.5	0.21	0.53	0.40	0.42	15.0	0.78
ORGAN (MREM)	7.5	0.04	0.87	2.67	1.87	15.0	2.73
	THYROID	THYROID	THYROID	THYROID	THYROID	THYROID	THYROID

RESULTS BASED UPON: ODCM ANNEX REVISION 3.0 MAY 2001
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

Table 3.1-1 (continued)

LASALLE STATION UNIT ONE

ACTUAL 2002
 MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES
 PERIOD OF RELEASE - 01/01/02 TO 12/31/02 CALCULATED 04/04/03
 TEENAGER RECEPTOR

TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
GAMMA AIR (MRAD)	2.00E-02 (WSW)	4.99E-02 (WSW)	3.78E-02 (WSW)	3.91E-02 (WSW)	1.47E-01 (WSW)
BETA AIR (MRAD)	7.25E-04 (ESE)	2.77E-03 (ESE)	1.33E-03 (ESE)	1.92E-03 (ESE)	6.74E-03 (ESE)
TOT. BODY (MREM)	1.51E-02 (WSW)	3.77E-02 (WSW)	2.86E-02 (WSW)	2.95E-02 (WSW)	1.11E-01 (WSW)
SKIN (MREM)	1.59E-02 (WSW)	4.01E-02 (WSW)	3.01E-02 (WSW)	3.14E-02 (WSW)	1.18E-01 (WSW)
ORGAN (MREM)	2.41E-03 (NNE)	4.00E-02 (NNE)	1.22E-01 (NNE)	8.54E-02 (NNE)	2.49E-01 (NNE)

THYROID THYROID THYROID THYROID THYROID
 THIS IS A REPORT FOR THE CALENDAR YEAR 2002

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	0.40	1.00	0.76	0.78	10.0	1.47
BETA AIR (MRAD)	10.0	0.01	0.03	0.01	0.02	20.0	0.03
TOT. BODY (MREM)	2.5	0.61	1.51	1.14	1.18	5.0	2.22
SKIN (MREM)	7.5	0.21	0.53	0.40	0.42	15.0	0.78
ORGAN (MREM)	7.5	0.03	0.53	1.62	1.14	15.0	1.66

THYROID THYROID THYROID THYROID THYROID

RESULTS BASED UPON: ODCM ANNEX REVISION 3.0 MAY 2001
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

Table 3.1-1 (continued)

LASALLE STATION UNIT ONE

ACTUAL 2002
 MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES
 PERIOD OF RELEASE - 01/01/02 TO 12/31/02 CALCULATED 04/04/03
 ADULT RECEPTOR

TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
GAMMA AIR (MRAD)	2.00E-02 (WSW)	4.99E-02 (WSW)	3.78E-02 (WSW)	3.91E-02 (WSW)	1.47E-01 (WSW)
BETA AIR (MRAD)	7.25E-04 (ESE)	2.77E-03 (ESE)	1.33E-03 (ESE)	1.92E-03 (ESE)	6.74E-03 (ESE)
TOT. BODY (MREM)	1.51E-02 (WSW)	3.77E-02 (WSW)	2.86E-02 (WSW)	2.95E-02 (WSW)	1.11E-01 (WSW)
SKIN (MREM)	1.59E-02 (WSW)	4.01E-02 (WSW)	3.01E-02 (WSW)	3.14E-02 (WSW)	1.18E-01 (WSW)
ORGAN (MREM)	2.66E-03 (NNE)	4.13E-02 (NNE)	1.26E-01 (NNE)	8.88E-02 (NNE)	2.59E-01 (NNE)
	THYROID	THYROID	THYROID	THYROID	THYROID

THIS IS A REPORT FOR THE CALENDAR YEAR 2002

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	0.40	1.00	0.76	0.78	10.0	1.47
BETA AIR (MRAD)	10.0	0.01	0.03	0.01	0.02	20.0	0.03
TOT. BODY (MREM)	2.5	0.61	1.51	1.14	1.18	5.0	2.22
SKIN (MREM)	7.5	0.21	0.53	0.40	0.42	15.0	0.78
ORGAN (MREM)	7.5	0.04	0.55	1.68	1.18	15.0	1.73
		THYROID	THYROID	THYROID	THYROID		THYROID

RESULTS BASED UPON: ODCM ANNEX REVISION 3.0 MAY 2001
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

TABLE 3.2-1

Table 3.2-1 has been deliberately deleted. There were no liquid releases in 2002.

Table 3.3-1

LASALLE STATION UNIT ONE

10 CFR 20 COMPLIANCE ASSESSMENT

PERIOD OF ASSESSMENT 01/01/02 TO 12/31/02

CALCULATED 04/04/03

1. 10 CFR 20.1301 (a)(1) Compliance

Total Effective Dose Equivalent, mrem/yr	<u>4.41E-01</u>
10 CFR 20.1301 (a)(1) limit mrem/yr	<u>100.0</u>
% of limit	<u>0.44</u>

Compliance Summary - 10CFR20

	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	% of Limit
TEDE	7.54E-02	1.16E-01	1.25E-01	1.25E-01	0.44

RESULTS BASED UPON: ODCM ANNEX REVISION 3.0 MAY 2001
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

Table 3.3-1 (continued)

LASALLE STATION UNIT ONE

10 CFR 20 COMPLIANCE ASSESSMENT

PERIOD OF ASSESSMENT 01/01/02 TO 12/31/02

CALCULATED 04/04/03

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

		Dose (mrem)	Limit (mrem)	% of Limit
Whole Body (DDE)	Plume	<u>1.11E-01</u>		
	Skyshine	<u>3.09E-01</u>		
	Ground	<u>2.05E-03</u>		
	Total	<u>4.22E-01</u>	<u>25.0</u>	<u>1.69</u>
Organ Dose (CDE)	Thyroid	<u>2.36E-01</u>	<u>75.0</u>	<u>0.32</u>
	Gonads	<u>1.23E-02</u>	<u>25.0</u>	<u>0.05</u>
	Breast	<u>1.22E-02</u>	<u>25.0</u>	<u>0.05</u>
	Lung	<u>1.23E-02</u>	<u>25.0</u>	<u>0.05</u>
	Marrow	<u>1.23E-02</u>	<u>25.0</u>	<u>0.05</u>
	Bone	<u>1.23E-02</u>	<u>25.0</u>	<u>0.05</u>
	Remainder	<u>1.26E-02</u>	<u>25.0</u>	<u>0.05</u>
	CEDE	<u>1.91E-02</u>		
TEDE	<u>4.41E-01</u>	<u>100.0</u>	<u>0.44</u>	

RESULTS BASED UPON: ODCM ANNEX REVISION 3.0 MAY 2001
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

Table 3.3-1 (continued)

LASALLE STATION UNIT TWO

10 CFR 20 COMPLIANCE ASSESSMENT

PERIOD OF ASSESSMENT 01/01/02 TO 12/31/02

CALCULATED 04/04/03

1. 10 CFR 20.1301 (a)(1) Compliance

Total Effective Dose Equivalent, mrem/yr	<u>3.14E-01</u>
10 CFR 20.1301 (a)(1) limit	<u>mrem/yr 100.0</u>
% of limit	<u>0.31</u>

Compliance Summary - 10CFR20

	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	% of Limit
TEDE	8.53E-02	7.18E-02	8.39E-02	7.31E-02	0.31

RESULTS BASED UPON: ODCM ANNEX REVISION 3.0 MAY 2001
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

Table 3.3-1 (continued)

LASALLE STATION UNIT TWO

10 CFR 20 COMPLIANCE ASSESSMENT

PERIOD OF ASSESSMENT 01/01/02 TO 12/31/02

CALCULATED 04/04/03

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

		Dose (mrem)	Limit (mrem)	% of Limit
Whole Body (DDE)	Plume	<u>0.00E+00</u>		
	Skyshine	<u>3.14E-01</u>		
	Ground	<u>0.00E+00</u>		
	Total	<u>3.14E-01</u>	<u>25.0</u>	<u>1.26</u>
Organ Dose (CDE)	Thyroid	<u>0.00E+00</u>	<u>75.0</u>	<u>0.00</u>
	Gonads	<u>0.00E+00</u>	<u>25.0</u>	<u>0.00</u>
	Breast	<u>0.00E+00</u>	<u>25.0</u>	<u>0.00</u>
	Lung	<u>0.00E+00</u>	<u>25.0</u>	<u>0.00</u>
	Marrow	<u>0.00E+00</u>	<u>25.0</u>	<u>0.00</u>
	Bone	<u>0.00E+00</u>	<u>25.0</u>	<u>0.00</u>
	Remainder	<u>0.00E+00</u>	<u>25.0</u>	<u>0.00</u>
	CEDE	<u>0.00E+00</u>		
	TEDE	<u>3.14E-01</u>	<u>100.0</u>	<u>0.31</u>

RESULTS BASED UPON: ODCM ANNEX REVISION 3.0 MAY 2001
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

Table 3.4-1

LaSalle Station - Unit 1

MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES

2002

TYPE OF DOSE	FIRST QUARTER	SECOND QUARTER	THIRD QUARTER	FOURTH QUARTER	ANNUAL
GAMMA AIR (mrad)	1.055E-02(SE)	3.755E-02(WSW)	5.500E-02(WSW)	2.905E-02(S)	1.189E-01(WSW)
BETA AIR (mrad)	1.250E-03(E)	5.600E-03(SW)	3.895E-03(WSW)	4.735E-03(S)	1.177E-02(SW)
WHOLE BODY (mrem)	3.255E-03(SSW)	1.090E-02(SW)	1.220E-02(W)	9.800E-03(SSW)	3.361E-02(SSW)
SKIN (mrem)	4.350E-03(SE)	1.470E-02(SW)	1.480E-02(W)	1.265E-02(S)	3.984E-02(SSW)
ORGAN (mrem)	2.775E-04(E)	4.680E-04(SW)	1.305E-03(WSW)	2.380E-03(S)	3.510E-03(S)
CRITICAL PERSON	Child	Child	Child	Child	Child
CRITICAL ORGAN	Thyroid	Thyroid	Thyroid	Thyroid	Thyroid

COMPLIANCE STATUS

TYPE OF DOSE	10 CFR 50 APP. I		10 CFR 50 APP. I	
	QUARTERLY OBJECTIVE	% OF APP. I	YEARLY OBJECTIVE	% OF APP. I
GAMMA AIR (mrad)	5.0	1.10	10.0	1.19
BETA AIR (mrad)	10.0	0.05	20.0	0.06
WHOLE BODY (mrem)	2.5	0.49	5.0	0.67
SKIN (mrem)	7.5	0.20	15.0	0.27
ORGAN (mrem)	7.5	0.03	15.0	0.02
CRITICAL PERSON		Child		Child
CRITICAL ORGAN		Thyroid		Thyroid

Calculation used release data from the following:
Unit 0 - Chimney

Date of calculation: 4/18/2003

Table 3.4-1 (continued)

LaSalle Station - Unit 2

MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES

2002

TYPE OF DOSE	FIRST QUARTER	SECOND QUARTER	THIRD QUARTER	FOURTH QUARTER	ANNUAL
GAMMA AIR (mrad)	1.055E-02(SE)	3.755E-02(WSW)	5.500E-02(WSW)	2.905E-02(S)	1.189E-01(WSW)
BETA AIR (mrad)	1.250E-03(E)	5.500E-03(SW)	3.895E-03(WSW)	4.735E-03(S)	1.177E-02(SW)
WHOLE BODY (mrem)	3.255E-03(SSW)	1.090E-02(SW)	1.220E-02(W)	9.800E-03(SSW)	3.361E-02(SSW)
SKIN (mrem)	4.350E-03(SE)	1.470E-02(SW)	1.480E-02(W)	1.265E-02(S)	3.984E-02(SSW)
ORGAN (mrem)	2.775E-04(E)	4.680E-04(SW)	1.305E-03(WSW)	2.380E-03(S)	3.510E-03(S)
CRITICAL PERSON	Child	Child	Child	Child	Child
CRITICAL ORGAN	Thyroid	Thyroid	Thyroid	Thyroid	Thyroid

COMPLIANCE STATUS

TYPE OF DOSE	10 CFR 50 APP. I		10 CFR 50 APP. I	
	QUARTERLY OBJECTIVE	% OF APP. I	YEARLY OBJECTIVE	% OF APP.
GAMMA AIR (mrad)	5.0	1.10	10.0	1.19
BETA AIR (mrad)	10.0	0.05	20.0	0.06
WHOLE BODY (mrem)	2.5	0.49	5.0	0.67
SKIN (mrem)	7.5	0.20	15.0	0.27
ORGAN (mrem)	7.5	0.03	15.0	0.02
CRITICAL PERSON		Child		Child
CRITICAL ORGAN		Thyroid		Thyroid

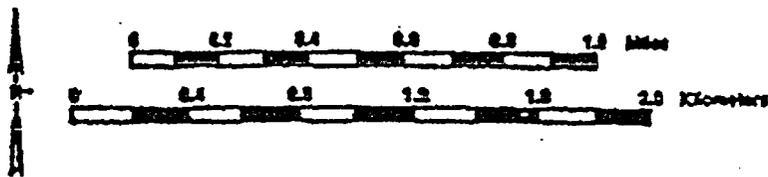
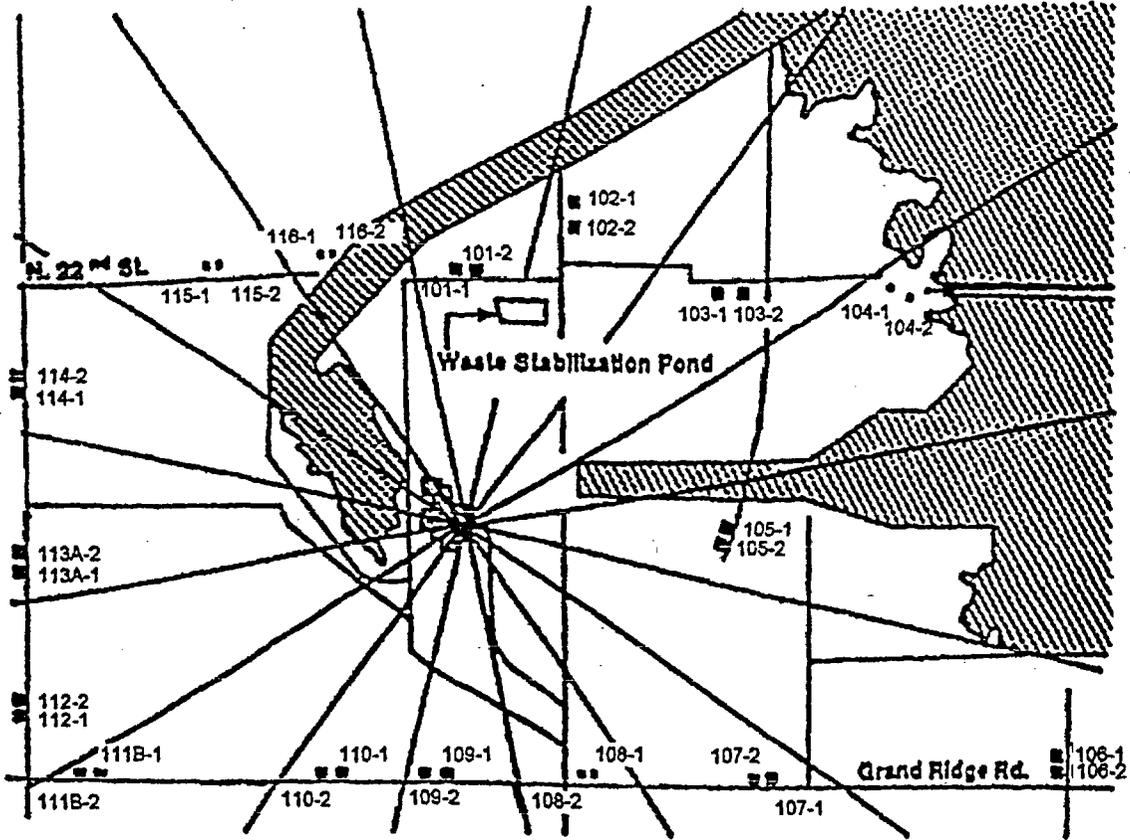
Calculation used release data from the following:
Unit 0 - Chimney

Maximum Offsite
Values (pCi/m3)

Iodine	1.70E+01
Particulate Matter	1.46E-04
Data Recovery (priority parameters)	99.5%

Date of calculation: 4/18/2003

Figure 5.0-1



■ TLD Location

LASALLE COUNTY STATION
INNER RING TLD LOCATIONS

Figure 5.0-2

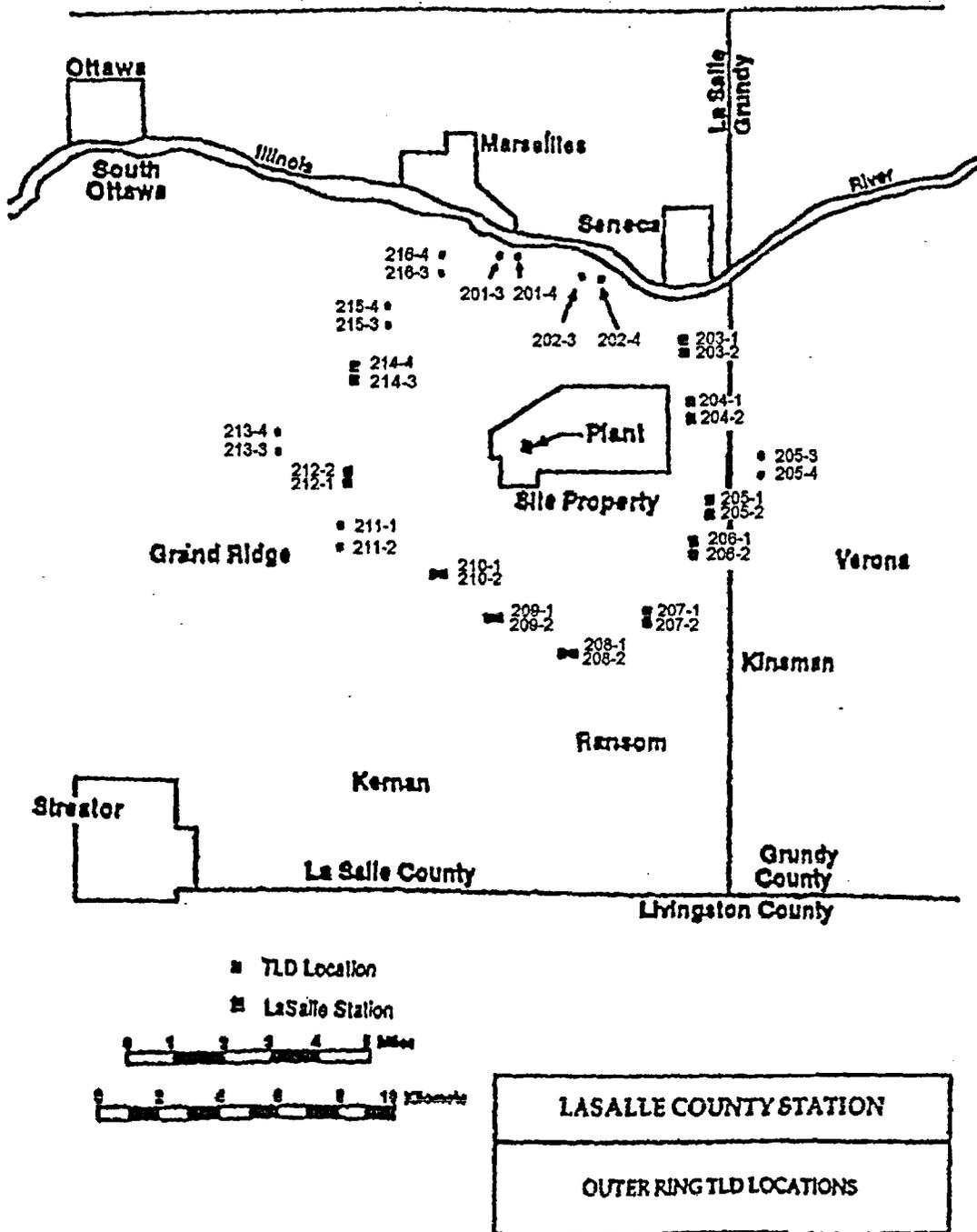


Figure 5.0-3

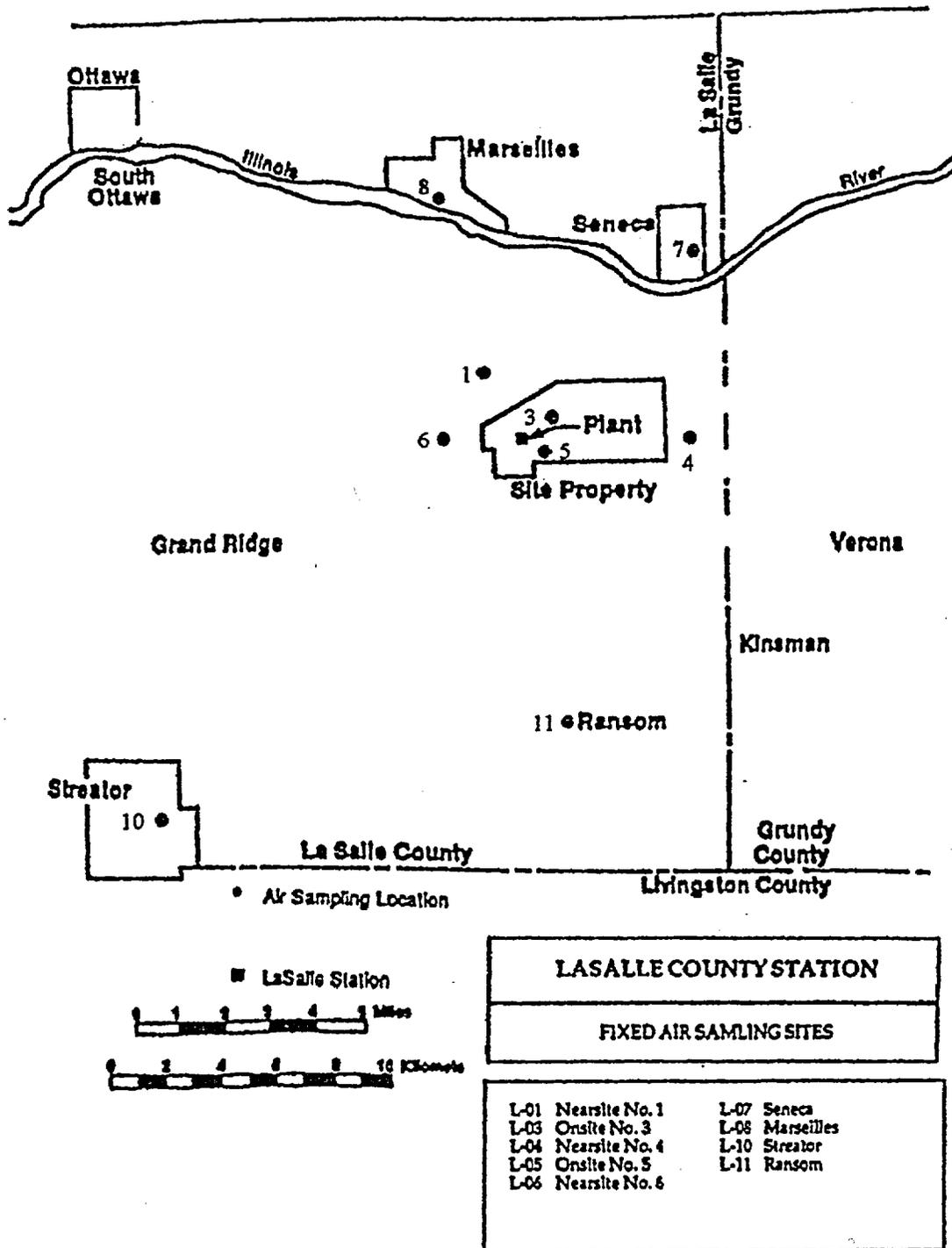
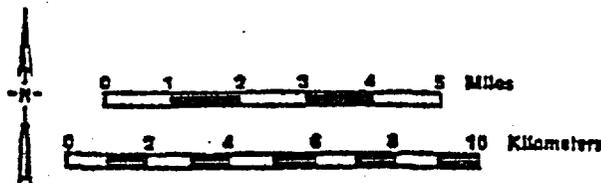
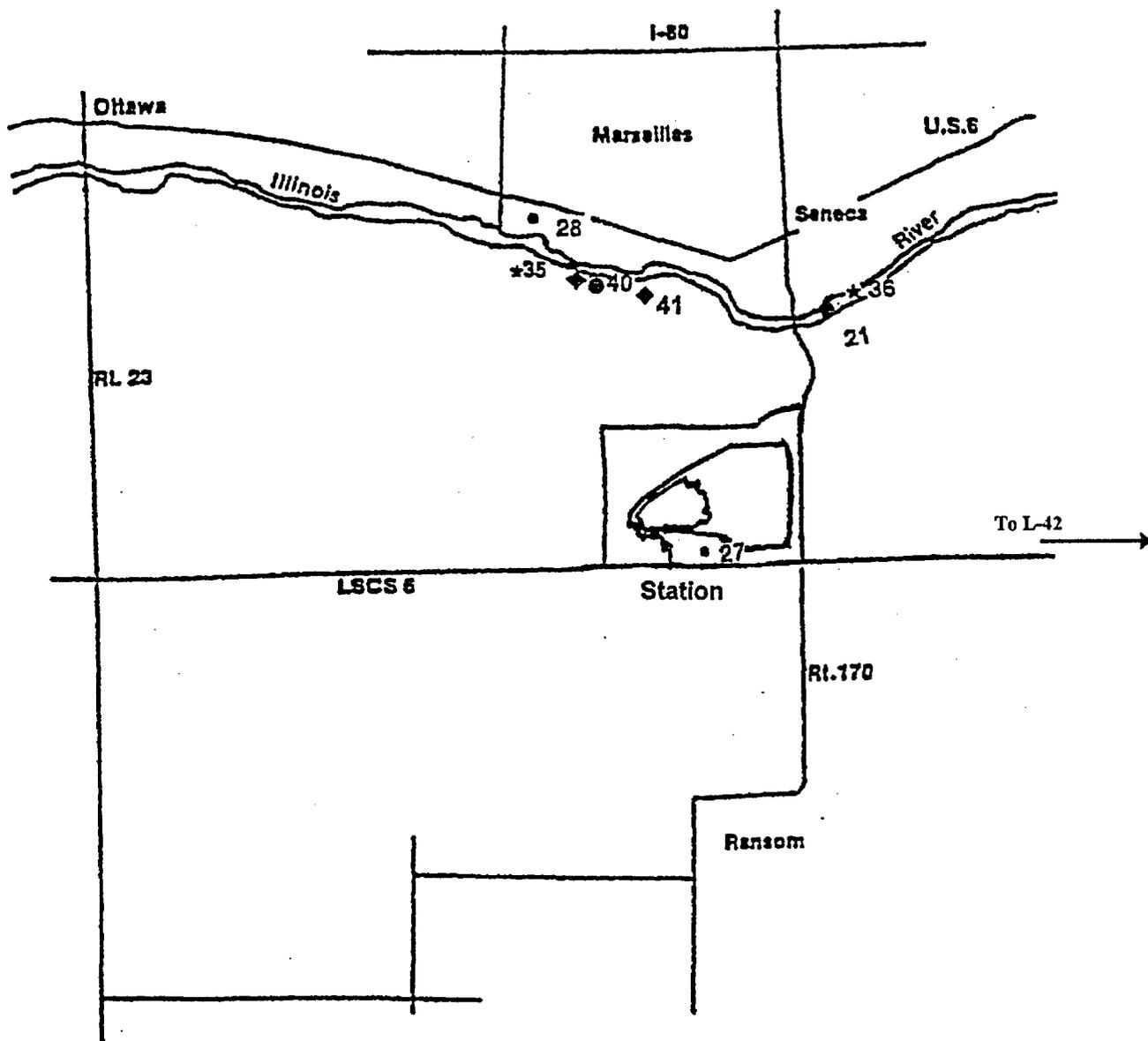


Figure 5.0-4



- ★ Fish
- Milk
- ◆ Sediment
- Water

LaSalle County Station	
Ingestion and Waterborne Exposure Pathway	
Sample Locations	
L-21	Illinois River at Seneca
L-27	LSCS Onsite Well at Station
L-28	Marseilles Well
L-35	Marseilles Pool of Illinois River
L-36	Illinois River Downstream of Discharge
L-40	Illinois River Downstream
L-41	Illinois River Downstream
L-42	Biros Farm

TABLE 5.0-1

LaSalle County Station Radiological Environmental Monitoring Stations	Air Sampling	TLD	Fish	Milk	Sediment	Surface Water	Vegetables	Well Water
L-01 Nearsite No. 1	<	<
L-03 Onsite No. 3	<	<
L-04 Nearsite No. 4	<	<
L-05 Onsite No. 5	<	<
L-06 Nearsite No. 6	<	<
L-07 Seneca	<	<
L-08 Marseilles	<	<
L-10 Streator	<	<
L-11 Ransom	<	<
L-21 Illinois River at Seneca	<	.	.
L-27 LSCS Onsite Well at Station	<
L-28 Marseilles Well	<
L-35 Marseilles Pool of Illinois River	.	.	<
L-36 Illinois River Upstream of Discharge	.	.	<
L-40 Illinois River Downstream	<	<	.	.
L-41 Illinois River Downstream	<	.	.	.
L-42 Biros Farm	.	.	.	<
L-Quadrant 1	<	.
L-Quadrant 2	<	.
L-Quadrant 3	<	.
L-Quadrant 4	<	.
L-Control	<	.
CENSUS								
Dairy								
Residence								
Livestock								

TABLE 5.0-2

LASALLE 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>Sector</u>
L-01	Nearsite No. 1	0.5	NNW	R
L-03	Onsite No. 3	0.2	ENE	D
L-04	Farfield No. 4	3.2	E	E
L-05	Onsite Station No. 5	0.3	ESE	F
L-06	Nearsite No. 6	0.4	WSW	M
L-07	Seneca	5.2	NNE	B
L-08	Marseilles	6.0	NNW	R
L-10 (C)	Streator	13.5	SW	L
L-11	Ransom	6.0	S	J

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>Sector</u>
Inner Ring			
L-101-1,2	0.5	N	A
L-102-1,2	0.6	NNE	B
L-103-1,2	0.7	NE	C
L-104-1,2	0.8	ENE	D
L-105-1,2	0.7	E	E
L-106-1,2	1.4	ESE	F
L-107-1,2	0.8	SE	G
L-108-1,2	0.5	SSE	H
L-109-1,2	0.6	S	J
L-110-1,2	0.6	SSW	K
L-111b-1,2	0.8	SW	L
L-112-1,2	0.9	WSW	M
L-113a-1,2	0.8	W	N
L-114-1,2	0.9	WNW	P
L-115-1,2	0.7	NW	Q
L-116-1,2	0.6	NNW	R

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

TABLE 5.0-2 (continued)

LASALLE 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>	<u>Sector</u>
Outer Ring			
L-201-3,4	4.0	N	A
L-202-3,4	3.6	NNE	B
L-203-1,2	4.0	NE	C
L-204-1,2	3.2	ENE	D
L-205-1,2	3.2	ESE	F
L-205-3,4	5.1	E	E
L-206-1,2	4.3	SE	G
L-207-1,2	4.5	SSE	H
L-208-1,2	4.5	S	J
L-209-1,2	4.0	SSW	K
L-210-1,2	3.3	SW	L
L-211-1,2	4.5	WSW	M
L-212-1,2	4.0	WSW	M
L-213-3,4	4.9	W	N
L-214-3,4	5.1	WNW	P
L-215-3,4	5.0	NW	Q
L-216-3,4	5.0	NNW	R

3. MILK

<u>Site Code^a</u>	<u>Location</u>	<u>Distance (mile)</u>	<u>Direction</u>	<u>Sector</u>
L-42 (C)	Biros Farm	14.2	E	E

4. GROUND/WELL WATER

<u>Site Code^a</u>	<u>Location</u>	<u>Distance (miles)</u>	<u>Direction</u>	<u>Sector</u>
L-27	LSCS Onsite Well at Station	At Station		
L-28	Marseilles Well	7.0	NW	Q

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

TABLE 5.0-2 (continued)

LASALLE STATION

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM, SAMPLING LOCATIONS

5. SURFACE WATER

<u>Site Code</u> ^a	<u>Location</u>	<u>Distance</u> <u>(miles)</u>	<u>Direction</u>	<u>Sector</u>
L-21 (C)	Illinois River at Seneca	4.0	NE	C
L-40	Illinois River Downstream	5.2	NNW	R

6. FISH

<u>Site Code</u> ^a	<u>Location</u>	<u>Distance</u> <u>(miles)</u>	<u>Direction</u>	<u>Sector</u>
L-35	Marseilles Pool of Illinois River	6.5	NW	Q
L-36 (C)	Illinois River Upstream of Discharge	4.3	NNE	B

7. SHORELINE SEDIMENTS

<u>Site Code</u> ^a	<u>Location</u>	<u>Distance</u> <u>(miles)</u>	<u>Direction</u>	<u>Sector</u>
L-40	Illinois River Downstream	5.2	NNW	R
L-41	Illinois River Downstream	4.6	NNW	A

8. VEGETATION

<u>Site Code</u> ^a	<u>Location</u>	<u>Distance</u> <u>(miles)</u>	<u>Direction</u>	<u>Sector</u>
L-Quadrant-1	Diane Partridge	4.5	NE	C
L-Quadrant-2	Mike & Gina Welbourne	3.8	ESE	H
L-Quadrant-3	Michael Olsen	1.5	WSW	M
L-Quadrant-4	Robert Eisers	4.5	NW	Q
L-Control(C)	Eugene Clements	10.0	NW	Q

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

TABLE 5.0-2 (continued)

LASALLE COUNTY STATION
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM, SAMPLE COLLECTION AND ANALYSES

Sample Media	Location		Collection Frequency	Type of Analysis	Frequency of Analysis	
	Code ^a	Site				
1. Airborne Particulates	Onsite, Nearfield and Control		Filter exchange weekly	Gross Beta Gamma Isot.	Weekly Quarterly Composite (or if weekly gross beta in a sample exceeds 5X the average concentration of preceding calendar quarter).	
	L-01	Nearsite No. 1				
	L-03	Onsite No. 3				
	L-05	Onsite No. 5				
	L-06	Nearsite No. 6				
	L-10 (C)	Streator				
	Far Field					Gamma Isot.
	L-04	Rte. 70				
	L-07	Seneca				
	L-08	Marseilles				
L-11	Ranson					
2. Airborne Iodine	Same as 1.		Canister exchange biweekly	I-131	Biweekly	
3. Air Sampling Train	Same as 1.		-	Test and Maintenance	Weekly	
4. TLDs	a. Same as 1. (two TLDs per location)		Quarterly	Gamma	Quarterly	
	b.	L-101-1,2				Inner Ring
		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				
		111b-1,2				
		112-1,2				
		113a-1,2				
		114-1,2				
		115-1,2				
		116-1,2				
	c.	L-201-3,4				Outer Ring
		202-3,4				
		203-1,2				
		204-1,2				
		205-1,2,3,4				
		206-1,2				
		207-1,2				
		208-1,2				
		209-1,2				
		210-1,2				
		211-1,2				

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

TABLE 5.0-2 (continued)

LASALLE COUNTY STATION
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM, SAMPLE COLLECTION AND ANALYSES

Sample Media	Location		Collection Frequency	Type of Analysis	Frequency of Analysis
	Code ^a	Site			
4. TLDs (continued)					
	Outer Ring		Quarterly	Gamma	Quarterly
	L-212-1,2				
	213-3,4				
	214-3,4				
	215-3,4				
	216-3,4				
5. Milk	L-42 (C)	Biros Farm	Biweekly: May-October Monthly: November-April	I-131 Gamma Isot.	Biweekly: May-October Monthly: November-April
6. Vegetables	Quad 1	D. Partridge	Annually - two varieties from each location as available at harvest.	Gamma Isot.	Annually Annually, on broad leaf vegetation.
	Quad 2	Mike & Gina Welbourne		I-131	
	Quad 3	M. Olsen			
	Quad 4	R. Eisers			
	Control	E. Clements			
7. Ground/Well Water	L-27	LSCS Onsite Well	Quarterly	Gamma Isot.	Quarterly
	L-28	Marseilles Well		Tritium	
8. Surface Water	L-21 (C)	Illinois River at Seneca	Weekly	Gross Beta Gamma Isot.	Monthly composite. Monthly composite.
	L-40	Illinois River Downstream		Tritium	
9. Fish (at least two species)	L-35	Marseilles Pool of Illinois River	Two times/year	Gamma Isot.	Two times/year on edible portions only.
	L-36 (C)	Illinois River Upstream of Discharge			
10. Sediments	L-40	Illinois River Downstream	Semiannually	Gamma Isot.	Semiannually
	L-41	Illinois River Downstream			
11. 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.
	b. 2 miles to 6.2 miles		-	b. Using referenced information from county agricultural agents or other reliable sources.	

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

TABLE 5.0-2 (continued)

LASALLE COUNTY STATION
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM, SAMPLE COLLECTION AND ANALYSES

Sample Media	Location		Collection Frequency	Type of Analysis	Frequency of Analysis
	Code ^a	Site			
11. Land Use					
Census (continued)					
	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		In all sectors up to 6.2 miles.	-	-	Annually during grazing season.

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

Table 5.0-3

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM QUARTERLY SUMMARY

Name of Facility LaSalle Nuclear Power Station Docket No. 50-373, 50-374
 Location of Facility LaSalle County, Illinois Reporting Period 1st Quarter 2002
 (County, State)

Sample Type (Units)	Type and Number of Analyses	LLD	Indicator Locations Mean ^a Range	Location with Highest Quarterly Mean	Highest Mean ^a Range	Control Locations Mean ^a Range	Number of Non-routine Results
Air Particulates (pCi/m ³)	Gross Beta 65	0.01	0.029 (52/52) (0.016-0.045)	L-01 ^b , Nearsite No. 1 1.5 mi. NNW, Sector R	0.030 (13/13) (0.018-0.042)	0.030 (13/13) (0.015-0.048)	0
	Gamma Spec. 5			-	-		
	Cs-134	0.01	<LLD	-	-	<LLD	0
	Cs-137	0.01	<LLD	-	-	<LLD	0
	Other Gammas	0.01-0.04	<LLD	-	-	<LLD	0
Airborne Iodine (pCi/m ³)	I-131 35	0.07	<LLD	-	-	<LLD	0
Milk (pCi/L)	I-131 3	5	None	-	-	<LLD	0
	Gamma Spec. 3			-	-		
	Cs-134	15	None	-	-	<LLD	0
	Cs-137	18	None	-	-	<LLD	0
	Ba/La-140	15	None	-	-	<LLD	0
	Other Gammas	10-15	None	-	-	<LLD	0
Surface Water (pCi/L)	Gross Beta 6	4	4.6 (3/3) (4.2-5.3)	L-40, Illinois River Downstream 5.2 mi. NNW, Sector R	4.6 (3/3) (4.2-5.3)	4.5 (2/3) (4.2-4.8)	0
	Gamma Spec. 6			-	-		
	Cs-134	15	<LLD	-	-	<LLD	0
	Cs-137	18	<LLD	-	-	<LLD	0
	Other ODCM-Required Gammas	15-30	<LLD	-	-	<LLD	0
	Tritium 2	200	286 (1/1)	L-40, Illinois River Downstream 5.2 mi. NNW, Sector R	286 (1/1)	<LLD	0
Well Water (pCi/L)	Tritium 2	200	<LLD	-	-	None	0
	Gamma Spec. 2			-	-		
	Cs-134	15	<LLD	-	-	None	0
	Cs-137	18	<LLD	-	-	None	0
	Other ODCM-Required Gammas	15-30	<LLD	-	-	None	0
Gamma Background (TLDs) (mR/Qtr.)	Gamma Dose 84	9.7	25.1 (82/82) (21.0-31.0)	L-210-2, 3.3 mi. SW Sector L	31.0 (1/1)	23.5 (2/2) (23.0-24.0)	0

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

^b Locations L-01 and L-10 (C) had identical means of 0.030 pCi/m. Both are detailed in this summary.

Table 5.0-4

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM QUARTERLY SUMMARY

Name of Facility LaSalle Nuclear Power Station Docket No. 50-373, 50-374
 Location of Facility LaSalle County, Illinois Reporting Period 2nd Quarter 2002
 (County, State)

Sample Type (Units)	Type and Number of Analyses	LLD	Indicator Locations Mean ^a Range	Location with Highest Quarterly Mean	Highest Mean ^a Range	Control Locations Mean ^a Range	Number of Non-routine Results
Air Particulates (pCi/m ³)	Gross Beta 65	0.01	0.021 (52/52) (0.011-0.036)	L-06 Nearsite No. 6 04 mi. WSW, Sector M	0.023 (13/13) (0.012-0.036)	0.021 (13/13) (0.012-0.033)	0
	Gamma Spec. 5			-	-		
	Cs-134	0.01	<LLD	-	-	<LLD	0
	Cs-137	0.01	<LLD	-	-	<LLD	0
	Other Gammas	0.01-0.04	<LLD	-	-	<LLD	0
Airborne Iodine (pCi/m ³)	I-131 30	0.07	<LLD	-	-	<LLD	0
Milk (pCi/L)	I-131 6	0.5/5 ^b	None	-	-	<LLD	0
	Gamma Spec. 6						
	Cs-134	15	None	-	-	<LLD	0
	Cs-137	18	None	-	-	<LLD	0
	Ba/La-140	15	None	-	-	<LLD	0
	Other Gammas	10-15	None	-	-	<LLD	0
Fish (pCi/g wet)	Gamma Spec. 4						
	Cs-134	0.10	<LLD	-	-	<LLD	0
	Cs-137	0.10	<LLD	-	-	<LLD	0
	Other ODCM-Required Gammas	0.13-0.26	<LLD	-	-	<LLD	0
	Other Gammas	0.20-0.30	<LLD	-	-	<LLD	0
Bottom Sediments (pCi/g dry)	Gamma Spec. 2						
	Cs-134	0.15	<LLD	-	-	None	0
	Cs-137	0.18	<LLD	-	-	None	0
	Other Gammas	0.10-0.60	<LLD	-	-	None	0

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

^b 0.5 pCi/L (May-October); 5.0 pCi/L (November-April)

Table 5.0-4 (continued)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM QUARTERLY SUMMARY

Name of Facility LaSalle Nuclear Power Station Docket No. 50-373, 50-374
 Location of Facility LaSalle County, Illinois Reporting Period 2nd Quarter 2002
 (County, State)

Sample Type (Units)	Type and Number of Analyses	LLD	Indicator Locations Mean ^a Range	Location with Highest Quarterly Mean	Highest Mean ^a Range	Control Locations Mean ^a Range	Number of Non-routine Results	
Surface Water (pCi/L)	Gross Beta 6	4	4.8 (3/3) (4.2-5.8)	L-40, Illinois River Downstream 5.2 mi. NNW, Sector R	4.8 (3/3) (4.2-5.8)	4.2 (3/3) (4.0-4.5)	0	
	Gamma Spec. 6							
	Cs-134	15	<LLD		-	-	<LLD	0
	Cs-137	18	<LLD		-	-	<LLD	0
	Other ODCM-Required Gammas	15-30	<LLD		-	-	<LLD	0
	Tritium 2	200	<LLD	-	-	<LLD	0	
Well Water (pCi/L)	Tritium 2	200	<LLD	-	-	None	0	
	Gamma Spec. 2							
	Cs-134	15	<LLD	-	-	None	0	
	Cs-137	18	<LLD	-	-	None	0	
	Other ODCM-Required Gammas	15-30	<LLD	-	-	None	0	
Gamma Background (TLDs) (mR/Qtr.)	Gamma Dose 84	9.7	23.1 (82/82) (18.0-31.0)	L-209-2 4.0 mi. SSW, Sector K	31.0 (1/1)	20.5 (2/2) (19.0-22.0)	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 LaSalle Nuclear Power Station Docket No. 50-373, 50-374
 Location of Facility LaSalle County, Illinois Reporting Period 3rd Quarter 2002
 (County, State)

Sample Type (Units)	Type and Number of Analyses	LLD	Indicator Locations Mean ^a Range	Location with Highest Quarterly Mean	Highest Mean ^a Range	Control Locations Mean ^a Range	Number of Non-routine Results				
Air Particulates (pCi/m ³)	Gross Beta 65	0.01	0.027 (52/52) (0.017-0.038)	L-03 ^b , Onsite No. 3, 1.0 mi. ENE, Sector D	0.028 (13/13) (0.022-0.034)	0.028 (13/13) (0.020-0.037)	0				
	Gamma Spec. 5										
	Cs-134	0.01	<LLD					-	-	<LLD	0
	Cs-137	0.01	<LLD					-	-	<LLD	0
	Other Gammas	0.01-0.04	<LLD					-	-	<LLD	0
Airborne Iodine (pCi/m ³)	I-131 35	0.07	<LLD	-	-	<LLD	0				
Milk (pCi/L)	I-131 6	0.5	None	-	-	<LLD	0				
	Gamma Spec. 6										
	Cs-134	15	None	-	-	<LLD	0				
	Cs-137	18	None	-	-	<LLD	0				
	Ba/La-140	15	None	-	-	<LLD	0				
	Other Gammas	10-15	None	-	-	<LLD	0				
Vegetation (pCi/g wet)	I-131 10	0.06	<LLD	-	-	<LLD	0				
	Gamma Spec. 10										
	Cs-134	0.06	<LLD	-	-	<LLD	0				
	Cs-137	0.08	<LLD	-	-	<LLD	0				
	Other Gammas	0.01-0.10	<LLD	-	-	<LLD	0				
Surface Water (pCi/L)	Gross Beta 6	4	6.1 (3/3) (5.2-7.3)	L-40, Illinois River Downstream 4.0 mi. NNW, Sector R	6.1 (3/3) (5.2-7.3)	5.7 (3/3) (5.3-6.1)	0				
	Gamma Spec. 6										
	Cs-134	10	<LLD					-	-	<LLD	0
	Cs-137	10	<LLD					-	-	<LLD	0
	Other ODCM-Required Gammas	20	<LLD					-	-	<LLD	0
	Tritium 2	200	448 (1/1)					L-40, Illinois River Downstream 4.0 mi NNW, Sector R	448 (1/1)	350 (1/1)	0

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

^b Locations L-03 and L-10 (C) had identical means of 0.028 pCi/m³. Both are detailed in this summary.

Table 5.0-5 (continued)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM QUARTERLY SUMMARY

Name of Facility LaSalle Nuclear Power Station Docket No. 50-373, 50-374
 Location of Facility LaSalle County, Illinois Reporting Period 3rd Quarter 2002
 (County, State)

Sample Type (Units)	Type and Number of Analyses	LLD	Indicator Locations Mean ^a Range	Location with Highest Quarterly Mean	Highest Mean ^a Range	Control Locations Mean ^a Range	Number of Non-routine Results
Well Water (pCi/L)	Tritium 2	200	<LLD	-	-	None	0
	Gamma Spec. 2						
	Cs-134 15	15	<LLD	-	-	None	0
	Cs-137 18	18	<LLD	-	-	None	0
	Other ODCM-Required Gammas 15-30	15-30	<LLD	-	-	None	0
Gamma Background (TLDs) (mR/Qtr.)	Gamma Dose 84	9.7	22.3 (82/82) (15-26)	L-105-2 ^b , 0.7 mi E, Sector E	26.0 (1/1)	19.5 (2/2) (19-20)	0

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

^b L-105-2 and L-210-1 had identical means of 26.0 mR. Only L-105-2 is detailed in this summary.

Table 5.0-6

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM QUARTERLY SUMMARY

Name of Facility LaSalle Nuclear Power Station Docket No. 50-373, 50-374
 Location of Facility LaSalle County, Illinois Reporting Period 4th Quarter 2002
 (County, State)

Sample Type (Units)	Type and Number of Analyses	LLD	Indicator Locations Mean ^a Range	Location with Highest Quarterly Mean	Highest Mean ^a Range	Control Locations Mean ^a Range	Number of Non-routine Results				
Air Particulates (pCi/m ³)	Gross Beta 65	0.01	0.031 (52/52) (0.015-0.052)	L-10, Streator, 13.5 mi. SW, Sector L	0.034 (13/13) (0.020-0.053)	0.034 (13/13) (0.020-0.053)	0				
	Gamma Spec. 5										
	Cs-134	0.01	<LLD					-	-	<LLD	0
	Cs-137	0.01	<LLD					-	-	<LLD	0
	Other Gammas	0.01-0.04	<LLD					-	-	<LLD	0
Airborne Iodine (pCi/m ³)	I-131 30	0.07	<LLD	-	-	<LLD	0				
Milk (pCi/L)	I-131 5	0.5/5 ^b	None	-	-	<LLD	0				
	Gamma Spec. 5										
	Cs-134	15	None	-	-	<LLD	0				
	Cs-137	18	None	-	-	<LLD	0				
	Ba/La-140	15	None	-	-	<LLD	0				
	Other Gammas	10-15	None	-	-	<LLD	0				
Fish (pCi/g wet)	Gamma Spec. 4										
	Cs-134	0.10	<LLD	-	-	<LLD	0				
	Cs-137	0.10	<LLD	-	-	<LLD	0				
	Other ODCM-Required Gammas	0.13-0.26	<LLD	-	-	<LLD	0				
	Other Gammas	0.20-0.30	<LLD	-	-	<LLD	0				
Bottom Sediments (pCi/g dry)	Gamma Spec. 2										
	Cs-134	0.15	<LLD	-	-	None	0				
	Cs-137	0.18	<LLD	-	-	None	0				
	Other Gammas	0.10-0.60	<LLD	-	-	None	0				

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

^b 0.5 pCi/L (May-October); 5 pCi/L (November-April)

Table 5.0-6 (continued)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM QUARTERLY SUMMARY

Name of Facility LaSalle Nuclear Power Station Docket No. 50-373, 50-374
 Location of Facility LaSalle County, Illinois Reporting Period 4th Quarter 2002
 (County, State)

Sample Type (Units)	Type and Number of Analyses	LLD	Indicator Locations Mean ^a Range	Location with Highest Quarterly Mean	Highest Mean ^a Range	Control Locations Mean ^a Range	Number of Non-routine Results			
Surface Water (pCi/L)	Gross Beta 6	4	6.5 (3/3) (5.3-7.4)	L-21, Illinois River at Seneca, 4.0 mi. NE, Sector C	6.9 (3/3) (5.6-8.4)	6.9 (3/3) (5.6-8.4)	0			
	Gamma Spec. 6									
	Cs-134 15	<LLD	-					-	<LLD	0
	Cs-137 18	<LLD	-					-	<LLD	0
	Other ODCM-Required Gammas 15-30	<LLD	-					-	<LLD	0
Tritium 2	200	827 (1/1)	L-40, Illinois Downstream, 4.0 mi. NNW, Sector R	827 (1/1)	702 (1/1)	0				
Well Water (pCi/L)	Gamma Spec. 2									
	Cs-134 15	<LLD	-	-	None	0				
	Cs-137 18	<LLD	-	-	None	0				
	Other ODCM-Required Gammas 15-30	<LLD	-	-	None	0				
	Tritium 2	200	<LLD	-	-	None	0			
Gamma Background (TLDs) (mR/Qtr.)	Gamma Dose 84	9.7	24.8 (82/82) (20.0-29.0)	L-204-1 3.2 mi. ENE, Sector D	29.0 (1/1)	21.5 (2/2) (21.0-22.0)	0			

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

LASALLE

APPENDIX II

METEOROLOGICAL DATA

LaSalle Nuclear Station

Period of Record: January - March 2002
 Stability Class - Extremely Unstable - 200Ft-33Ft Delta-T (F)
 Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	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	2	1	0	0	3
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	0	0	0	0
SW	0	0	0	0	0	0	0
WSW	0	0	0	0	3	0	3
W	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	0	0	2	1	3	0	6

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

LaSalle Nuclear Station

Period of Record: January - March 2002
 Stability Class - Moderately Unstable - 200Ft-33Ft Delta-T (F)
 Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	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	0	0	0	0
SSE	0	1	0	0	0	0	1
S	0	0	0	1	2	0	3
SSW	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0
WSW	0	0	0	1	2	0	3
W	0	0	0	0	2	0	2
WNW	0	0	0	0	3	0	3
NW	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	0	1	1	2	9	0	13

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

LaSalle Nuclear Station

Period of Record: January - March 2002
 Stability Class - Slightly Unstable - 200Ft-33Ft Delta-T (F)
 Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	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	1	0	0	1
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	1	0	1	0	1	3
SSE	0	3	2	0	0	0	5
S	0	2	0	0	3	1	6
SSW	0	1	0	1	0	0	2
SW	0	1	0	7	3	0	11
WSW	0	0	4	4	3	0	11
W	0	0	0	1	1	1	3
WNW	0	0	1	4	2	0	7
NW	0	0	0	2	0	0	2
NNW	0	0	0	0	0	1	1
Variable	0	0	0	0	0	0	0
Total	0	8	8	21	12	4	53

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

LaSalle Nuclear Station

Period of Record: January - March 2002
 Stability Class - Neutral - 200Ft-33Ft Delta-T (F)
 Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	1	20	37	15	5	0	78
NNE	1	14	19	3	0	0	37
NE	0	2	20	26	21	3	72
ENE	0	3	22	25	7	0	57
E	0	3	13	11	2	0	29
ESE	0	2	2	4	2	0	10
SE	1	0	2	4	0	1	8
SSE	0	4	1	10	4	2	21
S	0	3	3	14	17	2	39
SSW	2	2	7	33	13	0	57
SW	3	4	7	21	12	1	48
WSW	1	3	17	23	3	1	48
W	0	10	25	34	24	14	107
WNW	0	7	11	49	28	1	96
NW	0	10	20	17	21	4	72
NNW	0	8	29	51	13	4	105
Variable	0	0	0	0	0	0	0
Total	9	95	235	340	172	33	884

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

LaSalle Nuclear Station

Period of Record: January - March 2002
 Stability Class - Slightly Stable - 200Ft-33Ft Delta-T (F)
 Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	1	15	9	2	0	0	27
NNE	1	1	2	0	0	0	4
NE	0	5	2	0	0	0	7
ENE	0	0	2	2	1	0	5
E	0	8	14	7	0	0	29
ESE	1	6	2	0	0	0	9
SE	0	4	10	5	0	0	19
SSE	2	4	6	17	1	0	30
S	1	8	8	32	18	10	77
SSW	1	0	12	36	12	5	66
SW	1	10	12	30	12	2	67
WSW	1	5	16	23	3	0	48
W	0	4	14	16	15	10	59
WNW	0	3	16	19	27	7	72
NW	2	6	12	6	1	1	28
NNW	0	10	15	5	1	0	31
Variable	0	0	0	0	0	0	0
Total	11	89	152	200	91	35	578

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

LaSalle Nuclear Station

Period of Record: January - March 2002
 Stability Class - Moderately Stable - 200Ft-33Ft Delta-T (F)
 Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	2	0	0	0	0	2
NNE	0	0	0	0	0	0	0
NE	1	0	0	0	0	0	1
ENE	0	4	0	0	0	0	4
E	0	1	1	0	0	0	2
ESE	2	0	0	0	0	0	2
SE	1	5	2	0	0	0	8
SSE	1	1	12	8	0	0	22
S	0	3	15	9	2	0	29
SSW	1	7	12	16	5	0	41
SW	0	5	51	59	6	0	121
WSW	2	8	48	21	1	0	80
W	2	3	17	1	0	0	23
WNW	0	14	9	0	1	1	25
NW	0	9	7	0	0	0	16
NNW	0	4	0	0	0	0	4
Variable	0	0	0	0	0	0	0
Total	10	66	174	114	15	1	380

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

LaSalle Nuclear Station

Period of Record: January - March 2002
 Stability Class - Extremely Stable - 200Ft-33Ft Delta-T (F)
 Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	1	1	0	0	0	0	2
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	2	0	0	0	0	0	2
ESE	0	4	7	0	0	0	11
SE	1	3	7	5	0	0	16
SSE	0	1	5	2	0	0	8
S	0	3	4	2	0	0	9
SSW	0	6	8	5	0	0	19
SW	0	4	59	17	0	0	80
WSW	0	4	28	9	0	0	41
W	0	3	30	1	0	0	34
WNW	1	12	1	0	0	0	14
NW	0	6	1	0	0	0	7
NNW	0	2	0	0	0	0	2
Variable	0	0	0	0	0	0	0
Total	5	49	150	41	0	0	245

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

LaSalle Nuclear Station

Period of Record: January - March 2002
 Stability Class - Extremely Unstable - 375Ft-33Ft Delta-T (F)
 Winds Measured at 375 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	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	0	0	0	0
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	0	0
NW	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0

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

LaSalle Nuclear Station

Period of Record: January - March 2002
 Stability Class - Moderately Unstable - 375Ft-33Ft Delta-T (F)
 Winds Measured at 375 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	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	0	0	0	0
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	0	0
NW	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0

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

LaSalle Nuclear Station

Period of Record: January - March 2002
 Stability Class - Slightly Unstable - 375Ft-33Ft Delta-T (F)
 Winds Measured at 375 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	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	3	0	0	3
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	0	0	0	0
SW	0	0	0	0	0	0	0
WSW	0	0	0	0	2	1	3
W	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	0	0	0	3	2	1	6

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

LaSalle Nuclear Station

Period of Record: January - March 2002
 Stability Class - Neutral - 375Ft-33Ft Delta-T (F)
 Winds Measured at 375 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	1	3	19	41	25	9	98
NNE	0	4	12	15	2	0	33
NE	0	1	5	25	12	27	70
ENE	0	1	13	13	19	1	47
E	0	1	9	7	9	8	34
ESE	0	2	3	2	1	1	9
SE	0	1	1	4	1	3	10
SSE	0	5	5	5	11	5	31
S	1	2	4	1	12	41	61
SSW	0	4	2	5	32	16	59
SW	0	3	7	6	27	19	62
WSW	1	2	8	17	16	9	53
W	2	5	10	28	20	34	99
WNW	0	2	6	14	48	24	94
NW	0	8	14	21	26	39	108
NNW	0	8	7	20	28	15	78
Variable	0	0	0	0	0	0	0
Total	5	52	125	224	289	251	946

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 17
 Hours of missing stability measurements in all stability classes: 0

LaSalle Nuclear Station

Period of Record: January - March 2002
 Stability Class - Slightly Stable - 375Ft-33Ft Delta-T (F)
 Winds Measured at 375 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	4	6	7	8	1	26
NNE	1	3	8	5	0	0	17
NE	0	3	4	2	0	0	9
ENE	3	6	4	3	0	2	18
E	1	2	4	4	5	6	22
ESE	1	0	2	2	6	1	12
SE	0	3	2	1	0	0	6
SSE	1	3	1	2	7	8	22
S	0	3	3	3	1	58	68
SSW	1	1	4	4	13	67	90
SW	0	2	2	6	12	65	87
WSW	1	1	5	15	20	28	70
W	0	1	4	15	9	51	80
WNW	0	1	2	4	16	61	84
NW	1	0	6	20	10	14	51
NNW	3	0	3	10	5	4	25
Variable	0	0	0	0	0	0	0
Total	13	33	60	103	112	366	687

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

LaSalle Nuclear Station

Period of Record: January - March 2002
 Stability Class - Moderately Stable - 375Ft-33Ft Delta-T (F)
 Winds Measured at 375 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	0	3	1	0	4
NNE	2	1	0	0	0	0	3
NE	0	2	1	0	0	0	3
ENE	0	0	1	0	0	0	1
E	0	1	0	0	0	0	1
ESE	0	0	0	0	0	1	1
SE	0	0	3	2	1	0	6
SSE	0	0	3	1	6	9	19
S	0	0	1	0	1	24	26
SSW	0	3	0	5	3	17	28
SW	0	0	4	3	7	92	106
WSW	0	0	0	8	17	65	90
W	0	1	0	6	24	28	59
WNW	0	1	3	12	21	5	42
NW	0	0	3	19	6	2	30
NNW	0	1	2	3	2	0	8
Variable	0	0	0	0	0	0	0
Total	2	10	21	62	89	243	427

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

LaSalle Nuclear Station

Period of Record: January - March 2002
 Stability Class - Extremely Stable - 375Ft-33Ft Delta-T (F)
 Winds Measured at 375 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	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	1	1
SSE	0	0	0	1	1	5	7
S	0	0	1	2	1	7	11
SSW	0	0	0	0	0	0	0
SW	0	0	0	3	3	11	17
WSW	0	1	0	2	5	8	16
W	0	1	0	0	7	3	11
WNW	0	0	1	0	2	5	8
NW	0	2	1	1	0	0	4
NNW	1	1	0	0	0	0	2
Variable	0	0	0	0	0	0	0
Total	1	5	3	9	19	40	77

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

LaSalle Nuclear Station

Period of Record: April - June 2002

Stability Class - Extremely Unstable - 200Ft-33Ft Delta-T (F)

Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	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	1	0	0	1
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	2	6	0	8
SSW	0	0	0	5	9	6	20
SW	0	0	0	3	2	0	5
WSW	0	0	0	0	0	0	0
W	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	0	0	0	11	17	6	34

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

LaSalle Nuclear Station

Period of Record: April - June 2002

Stability Class - Moderately Unstable - 200Ft-33Ft Delta-T (F)
Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	0	0	0	0	0
NNE	0	0	0	1	0	0	1
NE	0	0	1	3	0	0	4
ENE	0	0	0	1	0	0	1
E	0	0	1	1	0	0	2
ESE	0	0	1	0	0	0	1
SE	0	0	0	1	0	0	1
SSE	0	0	0	1	0	0	1
S	0	0	0	0	2	1	3
SSW	0	0	6	7	9	0	22
SW	0	0	2	7	0	0	9
WSW	0	2	2	7	1	0	12
W	0	0	1	5	0	0	6
WNW	0	0	0	8	2	0	10
NW	0	0	2	0	2	0	4
NNW	0	0	0	1	0	0	1
Variable	0	0	0	0	0	0	0
Total	0	2	16	43	16	1	78

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

LaSalle Nuclear Station

Period of Record: April - June 2002
 Stability Class - Slightly Unstable - 200Ft-33Ft Delta-T (F)
 Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph).						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	2	0	0	0	2
NNE	0	1	2	0	0	0	3
NE	0	0	7	4	0	0	11
ENE	0	1	1	2	0	0	4
E	0	0	0	1	0	0	1
ESE	0	1	1	0	0	0	2
SE	0	2	5	3	0	0	10
SSE	0	2	6	6	0	0	14
S	0	0	4	4	3	0	11
SSW	0	4	7	2	3	1	17
SW	0	3	10	4	0	0	17
WSW	0	2	13	4	2	0	21
W	0	1	5	6	1	0	13
WNW	0	4	4	10	7	0	25
NW	0	0	3	1	1	0	5
NNW	0	0	3	5	0	0	8
Variable	0	0	0	0	0	0	0
Total	0	21	73	52	17	1	164

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

LaSalle Nuclear Station

Period of Record: April - June 2002
 Stability Class - Neutral - 200Ft-33Ft Delta-T (F)
 Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	2	19	13	12	2	0	48
NNE	2	21	14	6	0	0	43
NE	1	13	26	52	6	0	98
ENE	3	12	14	18	5	0	52
E	0	16	18	16	9	3	62
ESE	3	12	9	14	12	0	50
SE	0	5	7	2	4	0	18
SSE	0	10	6	13	0	0	29
S	1	13	29	18	4	0	65
SSW	0	8	19	13	12	5	57
SW	4	12	24	12	2	0	54
WSW	2	9	20	14	1	0	46
W	0	7	23	10	2	1	43
WNW	0	5	34	24	15	11	89
NW	2	12	30	18	9	1	72
NNW	1	22	44	32	0	0	99
Variable	0	0	0	0	0	0	0
Total	21	196	330	274	83	21	925

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

LaSalle Nuclear Station

Period of Record: April - June 2002
 Stability Class - Slightly Stable - 200Ft-33Ft Delta-T (F)
 Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	1	9	1	0	0	0	11
NNE	3	11	1	0	0	0	15
NE	1	4	5	3	0	0	13
ENE	1	3	14	6	0	0	24
E	1	10	28	16	1	0	56
ESE	2	7	11	3	0	0	23
SE	0	4	9	0	0	0	13
SSE	1	7	5	5	0	0	18
S	3	5	20	21	3	0	52
SSW	3	5	1	28	11	0	48
SW	1	15	19	24	1	0	60
WSW	1	5	14	9	1	2	32
W	2	11	21	2	2	3	41
WNW	0	15	7	3	9	5	39
NW	2	11	11	5	3	1	33
NNW	0	6	7	0	0	0	13
Variable	0	0	0	0	0	0	0
Total	22	128	174	125	31	11	491

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

LaSalle Nuclear Station

Period of Record: April - June 2002
 Stability Class - Moderately Stable - 200Ft-33Ft Delta-T (F)
 Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	3	0	0	0	0	3
NNE	0	1	0	0	0	0	1
NE	2	0	0	0	0	0	2
ENE	0	1	0	0	0	0	1
E	1	8	8	0	0	0	17
ESE	0	10	4	0	0	0	14
SE	0	19	7	0	0	0	26
SSE	1	9	20	4	0	0	34
S	2	10	7	8	0	0	27
SSW	1	12	14	19	0	0	46
SW	0	14	18	5	0	0	37
WSW	1	11	12	0	0	0	24
W	0	14	11	1	0	0	26
WNW	0	14	3	0	0	0	17
NW	0	6	1	0	0	0	7
NNW	2	4	0	0	0	0	6
Variable	0	0	0	0	0	0	0
Total	10	136	105	37	0	0	288

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

LaSalle Nuclear Station

Period of Record: April - June 2002

Stability Class - Extremely Stable - 200Ft-33Ft Delta-T (F)
 Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	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	3	1	0	0	0	4
SE	0	6	8	0	0	0	14
SSE	1	16	17	0	0	0	34
S	0	19	11	0	0	0	30
SSW	0	21	18	1	0	0	40
SW	0	15	16	2	0	0	33
WSW	0	9	24	0	0	0	33
W	0	2	6	0	0	0	8
WNW	0	3	0	0	0	0	3
NW	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	1	94	101	3	0	0	199

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

LaSalle Nuclear Station

Period of Record: April - June 2002

Stability Class - Extremely Unstable - 375Ft-33Ft Delta-T (F)

Winds Measured at 375 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	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	0	0	0	0
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	0	0
NW	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0

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: 5

LaSalle Nuclear Station

Period of Record: April - June 2002

Stability Class - Moderately Unstable - 375Ft-33Ft Delta-T (F)
Winds Measured at 375 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	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	1	0	1
SSW	0	0	0	0	0	1	1
SW	0	0	0	0	0	2	2
WSW	0	0	0	0	0	0	0
W	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	0	0	0	0	1	3	4

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: 5

LaSalle Nuclear Station

Period of Record: April - June 2002

Stability Class - Slightly Unstable - 375Ft-33Ft Delta-T (F)

Winds Measured at 375 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	0	0	1	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	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	4	1	5
SSW	0	0	0	0	5	11	16
SW	0	0	0	0	2	1	3
WSW	0	0	0	0	0	0	0
W	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0
NW	0	0	0	0	0	1	1
NNW	0	0	0	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	0	0	0	0	12	14	26

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: 5

LaSalle Nuclear Station

Period of Record: April - June 2002
 Stability Class - Neutral - 375Ft-33Ft Delta-T (F)
 Winds Measured at 375 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	1	11	14	5	18	3	52
NNE	1	13	21	7	8	0	50
NE	0	11	14	41	39	16	121
ENE	2	14	7	26	24	5	78
E	2	16	5	13	12	11	59
ESE	0	6	2	7	10	16	41
SE	0	5	12	6	6	6	35
SSE	0	6	13	16	7	2	44
S	1	6	31	15	20	12	85
SSW	0	4	20	20	18	36	98
SW	0	8	17	25	15	9	74
WSW	4	5	29	25	20	4	87
W	0	2	10	24	14	6	56
WNW	1	2	12	43	25	28	111
NW	0	4	23	45	23	24	119
NNW	0	7	29	29	18	3	86
Variable	0	0	0	0	0	0	0
Total	12	120	259	347	277	181	1196

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: 5

LaSalle Nuclear Station

Period of Record: April - June 2002
 Stability Class - Slightly Stable - 375Ft-33Ft Delta-T (F)
 Winds Measured at 375 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	4	12	6	2	0	24
NNE	0	4	4	6	0	0	14
NE	1	8	8	1	1	0	19
ENE	1	3	10	5	3	0	22
E	2	2	7	9	14	2	36
ESE	1	3	7	6	14	7	38
SE	0	3	8	5	8	3	27
SSE	1	1	5	9	6	2	24
S	1	6	3	8	8	18	44
SSW	1	2	4	6	9	57	79
SW	0	4	4	16	16	30	70
WSW	0	4	10	14	10	16	54
W	1	3	4	11	11	6	36
WNW	0	2	4	13	12	9	40
NW	1	3	5	6	11	8	34
NNW	0	0	2	4	8	0	14
Variable	0	0	0	0	0	0	0
Total	10	52	97	125	133	158	575

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: 5

LaSalle Nuclear Station

Period of Record: April - June 2002
 Stability Class - Moderately Stable - 375Ft-33Ft Delta-T (F)
 Winds Measured at 375 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	0	2	0	0	2
NNE	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0
ENE	0	1	0	0	0	0	1
E	0	0	0	0	0	0	0
ESE	0	0	1	3	2	1	7
SE	0	0	3	5	4	7	19
SSE	0	1	7	11	5	15	39
S	0	0	4	4	8	20	36
SSW	0	2	8	11	3	25	49
SW	0	1	6	11	19	12	49
WSW	0	3	4	10	13	5	35
W	0	1	2	3	13	11	30
WNW	0	0	3	5	7	2	17
NW	0	0	3	3	4	0	10
NNW	0	0	3	4	2	0	9
Variable	0	0	0	0	0	0	0
Total	0	9	44	72	80	98	303

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: 5

LaSalle Nuclear Station

Period of Record: April - June 2002
 Stability Class - Extremely Stable - 375Ft-33Ft Delta-T (F)
 Winds Measured at 375 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	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	1	0	0	0	1
SE	0	0	0	1	0	1	2
SSE	0	1	0	2	0	2	5
S	0	0	3	4	3	16	26
SSW	0	0	4	5	5	3	17
SW	0	0	0	1	1	0	2
WSW	0	0	1	3	4	6	14
W	0	2	1	0	3	0	6
WNW	0	0	0	0	0	0	0
NW	0	0	1	0	0	0	1
NNW	0	0	0	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	0	3	11	16	16	28	74

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: 5

LaSalle Nuclear Station

Period of Record: July - September 2002
 Stability Class - Extremely Unstable - 200Ft-33Ft Delta-T (F)
 Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	0	2	0	0	2
NNE	0	0	0	0	0	0	0
NE	0	0	4	1	0	0	5
ENE	0	0	2	4	0	0	6
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	1	7	3	1	0	12
SW	0	1	3	4	0	0	8
WSW	0	0	15	3	0	0	18
W	0	0	9	2	0	0	11
WNW	0	0	0	2	0	0	2
NW	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	0	2	40	21	1	0	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

LaSalle Nuclear Station

Period of Record: July - September 2002
 Stability Class - Moderately Unstable - 200Ft-33Ft Delta-T (F)
 Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	1	0	0	0	0	1
NNE	0	5	3	0	0	0	8
NE	0	2	6	0	0	0	8
ENE	0	1	17	3	0	0	21
E	0	0	2	1	0	0	3
ESE	0	3	0	0	0	0	3
SE	0	1	1	0	0	0	2
SSE	0	2	2	0	0	0	4
S	0	2	2	2	0	0	6
SSW	0	2	8	5	1	0	16
SW	0	3	9	5	0	0	17
WSW	0	2	10	0	0	0	12
W	0	1	11	2	0	0	14
WNW	0	1	4	1	0	0	6
NW	0	0	1	0	0	0	1
NNW	0	1	0	1	0	0	2
Variable	0	0	0	0	0	0	0
Total	0	27	76	20	1	0	124

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

LaSalle Nuclear Station

Period of Record: July - September 2002
 Stability Class - Slightly Unstable - 200Ft-33Ft Delta-T (F)
 Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	2	0	0	0	0	2
NNE	0	5	1	0	0	0	6
NE	0	6	3	0	0	0	9
ENE	0	6	9	1	0	0	16
E	0	10	11	4	0	0	25
ESE	0	4	1	0	0	0	5
SE	0	1	5	0	0	0	6
SSE	0	5	2	0	0	0	7
S	0	10	5	2	0	0	17
SSW	0	8	4	5	0	0	17
SW	0	5	9	5	0	0	19
WSW	0	9	9	3	0	0	21
W	0	10	4	2	0	0	16
WNW	0	6	6	2	0	0	14
NW	0	1	0	0	0	0	1
NNW	0	2	1	0	0	0	3
Variable	0	0	0	0	0	0	0
Total	0	90	70	24	0	0	184

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

LaSalle Nuclear Station

Period of Record: July - September 2002
 Stability Class - Neutral - 200Ft-33Ft Delta-T (F)
 Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	4	18	16	4	0	0	42
NNE	1	20	11	0	0	0	32
NE	1	10	25	15	0	0	51
ENE	1	9	13	13	0	0	36
E	1	10	18	8	0	0	37
ESE	3	13	6	0	0	0	22
SE	0	23	6	0	0	0	29
SSE	3	13	8	0	0	0	24
S	2	9	13	5	0	0	29
SSW	0	7	23	13	0	0	43
SW	0	22	26	15	1	0	64
WSW	1	18	19	7	0	0	45
W	1	21	15	2	0	0	39
WNW	1	18	9	4	0	0	32
NW	0	7	4	0	0	0	11
NNW	1	6	6	4	0	0	17
Variable	0	0	0	0	0	0	0
Total	20	224	218	90	1	0	553

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

LaSalle Nuclear Station

Period of Record: July - September 2002
 Stability Class - Slightly Stable - 200Ft-33Ft Delta-T (F)
 Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	1	4	10	2	0	0	17
NNE	3	22	3	0	0	0	28
NE	1	8	22	3	0	0	34
ENE	1	7	27	9	0	0	44
E	1	17	24	4	0	0	46
ESE	1	10	1	0	0	0	12
SE	2	5	4	0	0	0	11
SSE	2	5	4	0	0	0	11
S	1	10	15	2	0	0	28
SSW	0	6	33	4	0	0	43
SW	2	12	31	10	0	0	55
WSW	0	9	13	2	0	0	24
W	0	5	5	0	0	0	10
WNW	0	9	5	0	0	0	14
NW	0	7	3	0	0	0	10
NNW	0	5	9	1	0	0	15
Variable	0	0	0	0	0	0	0
Total	15	141	209	37	0	0	402

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

LaSalle Nuclear Station

Period of Record: July - September 2002
 Stability Class - Moderately Stable - 200Ft-33Ft Delta-T (F)
 Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	1	1	0	0	0	0	2
NNE	2	11	0	0	0	0	13
NE	0	1	1	0	0	0	2
ENE	0	0	0	0	0	0	0
E	1	22	21	0	0	0	44
ESE	0	24	1	0	0	0	25
SE	0	11	1	0	0	0	12
SSE	0	13	3	0	0	0	16
S	2	27	19	0	1	0	49
SSW	1	21	19	0	0	0	41
SW	1	25	5	0	0	0	31
WSW	1	11	5	0	0	0	17
W	6	4	0	0	0	0	10
WNW	1	7	0	0	0	0	8
NW	1	5	0	0	0	0	6
NNW	1	3	0	0	0	0	4
Variable	0	0	0	0	0	0	0
Total	18	186	75	0	1	0	280

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

LaSalle Nuclear Station

Period of Record: July - September 2002
 Stability Class - Extremely Stable - 200Ft-33Ft Delta-T (F)
 Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	1	1	0	0	0	0	2
NNE	0	1	0	0	0	0	1
NE	1	0	0	0	0	0	1
ENE	0	1	0	0	0	0	1
E	2	9	2	0	0	0	13
ESE	2	29	3	0	0	0	34
SE	3	18	0	0	0	0	21
SSE	1	32	2	0	0	0	35
S	0	20	6	0	0	0	26
SSW	1	28	4	0	0	0	33
SW	2	37	9	0	0	0	48
WSW	5	31	1	0	0	0	37
W	7	15	1	0	0	0	23
WNW	3	17	0	0	0	0	20
NW	3	2	0	0	0	0	5
NNW	4	1	0	0	0	0	5
Variable	0	0	0	0	0	0	0
Total	35	242	28	0	0	0	305

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

LaSalle Nuclear Station

Period of Record: July - September 2002
 Stability Class - Extremely Unstable - 375Ft-33Ft Delta-T (F)
 Winds Measured at 375 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	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	0	0	0	0
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	0	0
NW	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0

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

LaSalle Nuclear Station

Period of Record: July - September 2002

Stability Class - Moderately Unstable - 375Ft-33Ft Delta-T (F)

Winds Measured at 375 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	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	0	0	0	0
SW	0	0	0	0	0	0	0
WSW	0	0	0	1	0	0	1
W	0	0	0	1	0	0	1
WNW	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	0	0	0	2	0	0	2

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

LaSalle Nuclear Station

Period of Record: July - September 2002
 Stability Class - Slightly Unstable - 375Ft-33Ft Delta-T (F)
 Winds Measured at 375 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	0	0	2	0	2
NNE	0	0	0	0	0	0	0
NE	0	0	1	4	0	0	5
ENE	0	0	3	4	0	0	7
E	0	0	1	0	1	0	2
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	4	0	1	1	6
SW	0	0	2	1	3	1	7
WSW	0	0	1	12	0	0	13
W	0	0	3	5	0	0	8
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	15	28	7	2	52

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

LaSalle Nuclear Station

Period of Record: July - September 2002
 Stability Class - Neutral - 375Ft-33Ft Delta-T (F)
 Winds Measured at 375 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	11	20	10	8	1	50
NNE	1	13	33	13	0	0	60
NE	0	16	20	33	22	0	91
ENE	1	15	38	42	18	2	116
E	1	13	30	27	5	1	77
ESE	0	16	18	7	1	0	42
SE	0	17	14	4	1	0	36
SSE	1	15	14	3	2	0	35
S	0	17	16	14	11	5	63
SSW	1	16	15	21	27	8	88
SW	0	8	29	29	28	8	102
WSW	0	13	39	20	9	2	83
W	0	25	23	22	4	0	74
WNW	1	10	27	6	7	0	51
NW	0	8	18	4	1	0	31
NNW	0	6	10	6	2	3	27
Variable	0	0	0	0	0	0	0
Total	6	219	364	261	146	30	1026

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

LaSalle Nuclear Station

Period of Record: July - September 2002
 Stability Class - Slightly Stable - 375Ft-33Ft Delta-T (F)
 Winds Measured at 375 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	3	9	9	4	1	26
NNE	0	1	4	12	3	0	20
NE	1	4	3	25	10	0	43
ENE	0	3	17	59	9	0	88
E	0	2	16	21	18	2	59
ESE	0	2	10	11	3	0	26
SE	1	1	5	7	2	0	16
SSE	0	2	5	1	3	0	11
S	0	4	9	11	10	4	38
SSW	0	3	7	8	12	29	59
SW	0	3	4	11	22	26	66
WSW	0	2	11	13	9	3	38
W	2	4	6	5	3	0	20
WNW	0	4	0	9	2	0	15
NW	0	4	5	14	3	0	26
NNW	0	4	2	9	4	0	19
Variable	0	0	0	0	0	0	0
Total	4	46	113	225	117	65	570

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

LaSalle Nuclear Station

Period of Record: July - September 2002
 Stability Class - Moderately Stable - 375Ft-33Ft Delta-T (F)
 Winds Measured at 375 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	1	3	4	3	0	0	11
NNE	3	6	3	1	0	0	13
NE	0	3	1	2	0	0	6
ENE	0	5	7	7	0	0	19
E	1	3	6	6	10	2	28
ESE	0	3	7	7	13	1	31
SE	2	2	2	6	7	5	24
SSE	0	0	6	8	2	5	21
S	3	3	7	8	7	9	37
SSW	1	6	3	3	14	25	52
SW	0	5	10	6	20	18	59
WSW	0	9	9	8	7	8	41
W	0	5	7	6	6	0	24
WNW	0	8	12	16	5	0	41
NW	0	1	5	8	0	0	14
NNW	0	0	1	1	4	0	6
Variable	0	0	0	0	0	0	0
Total	11	62	90	96	95	73	427

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

LaSalle Nuclear Station

Period of Record: July - September 2002
 Stability Class - Extremely Stable - 375Ft-33Ft Delta-T (F)
 Winds Measured at 375 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	1	0	3	0	4
NNE	0	0	1	0	0	0	1
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	4	1	5
SE	0	0	1	9	3	0	13
SSE	0	1	2	20	9	2	34
S	0	4	3	2	6	6	21
SSW	0	0	1	1	10	1	13
SW	0	0	2	7	7	2	18
WSW	0	0	1	7	1	1	10
W	0	2	2	1	2	0	7
WNW	0	0	0	0	0	0	0
NW	0	0	1	3	0	0	4
NNW	0	0	0	0	1	0	1
Variable	0	0	0	0	0	0	0
Total	0	7	15	50	46	13	131

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

LaSalle Nuclear Station

Period of Record: October - December 2002

Stability Class - Extremely Unstable - 200Ft-33Ft Delta-T (F)

Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	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	1	0	0	1
S	0	0	0	0	0	0	0
SSW	0	0	2	1	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	0	0	0	0
NW	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	0	0	2	2	0	0	4

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

LaSalle Nuclear Station

Period of Record: October - December 2002
 Stability Class - Moderately Unstable - 200Ft-33Ft Delta-T (F)
 Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	3	0	0	0	3
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	2	2	0	0	4
S	0	0	1	0	0	0	1
SSW	0	0	2	1	0	0	3
SW	0	0	3	0	2	0	5
WSW	0	0	0	2	1	0	3
W	0	0	0	1	0	0	1
WNW	0	0	0	3	0	0	3
NW	0	1	0	0	0	0	1
NNW	0	0	0	1	0	0	1
Variable	0	0	0	0	0	0	0
Total	0	1	11	10	3	0	25

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

LaSalle Nuclear Station

Period of Record: October - December 2002
 Stability Class - Slightly Unstable - 200Ft-33Ft Delta-T (F)
 Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	2	4	3	0	0	9
NNE	0	0	2	0	0	0	2
NE	0	0	1	0	0	0	1
ENE	0	0	0	1	0	0	1
E	0	0	0	0	1	0	1
ESE	0	0	5	1	0	0	6
SE	0	0	0	0	0	0	0
SSE	0	2	0	2	0	0	4
S	0	1	0	0	0	0	1
SSW	0	0	2	0	4	0	6
SW	0	0	7	4	3	0	14
WSW	0	0	2	4	3	0	9
W	0	1	2	7	0	0	10
WNW	0	1	2	2	0	0	5
NW	0	1	3	5	0	0	9
NNW	0	1	5	6	0	0	12
Variable	0	0	0	0	0	0	0
Total	0	9	35	35	11	0	90

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

LaSalle Nuclear Station

Period of Record: October - December 2002
 Stability Class - Neutral - 200Ft-33Ft Delta-T (F)
 Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	1	30	46	8	2	0	87
NNE	3	30	37	0	0	0	70
NE	0	7	35	18	1	0	61
ENE	0	9	15	19	9	0	52
E	0	6	17	30	9	0	62
ESE	2	4	6	3	8	0	23
SE	0	2	2	1	0	0	5
SSE	0	2	1	4	1	1	9
S	0	1	0	6	2	2	11
SSW	2	4	9	7	6	0	28
SW	1	8	30	15	4	4	62
WSW	1	8	28	14	4	0	55
W	2	5	32	31	19	2	91
WNW	4	18	32	43	5	0	102
NW	1	8	30	23	6	2	70
NNW	0	17	57	41	10	3	128
Variable	0	0	0	0	0	0	0
Total	17	159	377	263	86	14	916

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

LaSalle Nuclear Station

Period of Record: October - December 2002
 Stability Class - Slightly Stable - 200Ft-33Ft Delta-T (F)
 Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	1	37	15	0	0	0	53
NNE	0	30	3	0	0	0	33
NE	1	6	5	2	0	0	14
ENE	0	3	5	2	0	0	10
E	1	7	19	15	0	0	42
ESE	0	6	4	3	4	0	17
SE	2	5	5	4	2	0	18
SSE	1	3	3	2	1	2	12
S	1	3	15	22	7	2	50
SSW	1	8	21	18	13	0	61
SW	0	4	21	25	16	0	66
WSW	1	7	10	15	3	0	36
W	3	11	19	29	12	4	78
WNW	1	11	26	13	11	5	67
NW	2	13	17	3	0	0	35
NNW	0	13	16	0	0	0	29
Variable	0	0	0	0	0	0	0
Total	15	167	204	153	69	13	621

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

LaSalle Nuclear Station

Period of Record: October - December 2002
 Stability Class - Moderately Stable - 200Ft-33Ft Delta-T (F)
 Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	2	2	0	0	0	0	4
NNE	0	4	0	0	0	0	4
NE	0	0	0	0	0	0	0
ENE	1	0	0	0	0	0	1
E	0	4	3	0	0	0	7
ESE	0	11	3	0	0	0	14
SE	0	6	2	0	0	0	8
SSE	0	5	2	1	0	0	8
S	0	3	7	5	2	0	17
SSW	0	6	11	7	1	0	25
SW	0	9	43	20	2	0	74
WSW	2	7	11	6	0	0	26
W	1	11	29	8	0	0	49
WNW	0	15	3	0	0	0	18
NW	1	9	6	0	0	0	16
NNW	1	5	1	0	0	0	7
Variable	0	0	0	0	0	0	0
Total	8	97	121	47	5	0	278

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

LaSalle Nuclear Station

Period of Record: October - December 2002
 Stability Class - Extremely Stable - 200Ft-33Ft Delta-T (F)
 Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	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	11	2	0	0	0	13
ESE	0	8	7	0	0	0	15
SE	0	9	1	0	0	0	10
SSE	0	17	0	0	0	0	17
S	0	10	4	0	0	0	14
SSW	0	14	36	3	0	0	53
SW	2	19	36	0	0	0	57
WSW	0	3	38	3	0	0	44
W	1	12	15	0	0	0	28
WNW	0	13	4	0	0	0	17
NW	1	1	3	0	0	0	5
NNW	0	0	0	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	4	117	146	6	0	0	273

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

LaSalle Nuclear Station

Period of Record: October - December 2002
 Stability Class - Extremely Unstable - 375Ft-33Ft Delta-T (F)
 Winds Measured at 375 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	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	0	0	0	0
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	0	0
NW	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0

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

LaSalle Nuclear Station

Period of Record: October - December 2002
 Stability Class - Moderately Unstable - 375Ft-33Ft Delta-T (F)
 Winds Measured at 375 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	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	0	0	0	0
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	0	0
NW	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0

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

LaSalle Nuclear Station

Period of Record: October - December 2002
 Stability Class - Slightly Unstable - 375Ft-33Ft Delta-T (F)
 Winds Measured at 375 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	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	1	0	0	1
S	0	0	0	0	0	0	0
SSW	0	0	0	1	0	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	0	0
NW	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	0	0	0	2	0	0	2

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

LaSalle Nuclear Station

Period of Record: October - December 2002
 Stability Class - Neutral - 375Ft-33Ft Delta-T (F)
 Winds Measured at 375 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	1	13	42	38	14	3	111
NNE	0	6	25	31	3	0	65
NE	0	3	18	44	17	1	83
ENE	0	3	13	24	15	9	64
E	1	3	11	17	23	17	72
ESE	1	2	9	3	3	10	28
SE	0	0	3	2	1	0	6
SSE	0	3	3	6	5	3	20
S	0	0	0	3	1	9	13
SSW	0	2	9	12	4	14	41
SW	1	3	17	33	16	15	85
WSW	0	4	10	26	10	8	58
W	0	8	8	35	33	22	106
WNW	2	5	14	27	34	5	87
NW	1	9	22	32	42	20	126
NNW	1	7	24	29	28	14	103
Variable	0	0	0	0	0	0	0
Total	8	71	228	362	249	150	1068

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

LaSalle Nuclear Station

Period of Record: October - December 2002
 Stability Class - Slightly Stable - 375Ft-33Ft Delta-T (F)
 Winds Measured at 375 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	2	3	6	23	10	1	45
NNE	2	0	14	18	1	0	35
NE	0	3	10	14	4	0	31
ENE	1	0	5	1	1	0	8
E	0	2	9	6	7	4	28
ESE	0	1	5	5	2	4	17
SE	0	5	1	0	4	6	16
SSE	0	1	3	2	5	7	18
S	1	0	1	2	8	22	34
SSW	0	1	3	8	10	49	71
SW	0	5	2	8	21	51	87
WSW	0	1	6	6	4	17	34
W	0	1	11	12	9	48	81
WNW	0	0	6	15	24	27	72
NW	0	0	4	12	26	6	48
NNW	0	4	7	14	8	2	35
Variable	0	0	0	0	0	0	0
Total	6	27	93	146	144	244	660

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

LaSalle Nuclear Station

Period of Record: October - December 2002
 Stability Class - Moderately Stable - 375Ft-33Ft Delta-T (F)
 Winds Measured at 375 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	1	0	4	0	0	5
NNE	0	0	1	1	0	0	2
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	3	3	4	5	4	19
SE	0	0	2	3	8	3	16
SSE	0	0	4	3	1	4	12
S	0	1	2	4	2	4	13
SSW	0	1	5	8	10	17	41
SW	0	0	5	11	12	39	67
WSW	0	1	3	5	8	17	34
W	0	0	5	8	13	30	56
WNW	0	1	1	17	11	11	41
NW	0	0	5	9	10	0	24
NNW	0	0	6	9	1	0	16
Variable	0	0	0	0	0	0	0
Total	0	9	42	86	81	129	347

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

LaSalle Nuclear Station

Period of Record: October - December 2002
 Stability Class - Extremely Stable - 375Ft-33Ft Delta-T (F)
 Winds Measured at 375 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	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	1	1	0	2
SE	0	0	1	2	5	4	12
SSE	0	0	0	2	1	1	4
S	0	0	3	0	1	4	8
SSW	0	1	2	4	7	2	16
SW	0	2	7	2	9	7	27
WSW	0	2	3	2	8	21	36
W	0	0	0	4	3	1	8
WNW	0	0	1	2	4	2	9
NW	0	0	0	0	0	0	0
NNW	0	0	1	6	0	0	7
Variable	0	0	0	0	0	0	0
Total	0	5	18	25	39	42	129

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

LASALLE

APPENDIX III

2002 REMP SAMPLE RESULTS

LASALLE

TABLE OF CONTENTS

	List of Tables	III-3
1.0	INTRODUCTION	III-4
2.0	LISTING OF MISSED SAMPLES	III-5
3.0	LISTING OF SAMPLE ANOMALIES	III-6
4.0	TLD DATA	III-34
5.0	GRAPHS OF DATA TRENDS	III-38

LASALLE

LIST OF TABLES

<u>No.</u>	<u>Title</u>	<u>Page</u>
1	Airborne Particulates and Iodine-131	III-7
2	Airborne Particulates, Quarterly Composites	III-12
3	Milk	III-15
4	Fish, Edible Portions	III-18
5	Bottom Sediments	III-20
6	Vegetables	III-21
7	Surface Water	III-24
8	Well Water	III-29
12	Milch Animals, Nearest Residence, and Nearest Livestock Census	III-30

LASALLE

1.0 INTRODUCTION

The following constitutes the 2002 Monthly Progress Report for the Radiological Environmental Monitoring Program conducted at the LaSalle County Station, Marseilles, Illinois. Results of completed analyses are presented in the attached tables. Missing entries indicate analyses that are not completed and the results will appear in subsequent reports.

Missing tables indicate sample media scheduled for collection at a future date. Tables 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/Nb-95, I-131, Ba/La-140, Cs-134 and Cs-137. 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.

Locations denoted by a "(C)" after site code refer to control locations.

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

TLD data is provided by Exelon Generation Company.

Deviations from Scheduled Sampling and Corrective Actions Taken

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

Unusual Environmental Measurements

Sample Type	Location Code	Collection Date	Comments
None for 2002.			

2.0 LISTING OF MISSED SAMPLES

Sample Type	Location Code	Expected Collection Date	Reason
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None for 2002.

LASALLE

3.0 LISTING OF SAMPLE ANOMALIES

Sample Type	Location Code	Collection Date	Reason
A	L-03	09-05-02	Sample collected on 09-06-02; collector denied access on 09-05-02 due to shipment of hot cast.

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

L-01 Nearsite No. 1							
Date Collected	Volume (m ³)	Gross Beta	I-131 ^a	Date Collected	Volume (m ³)	Gross Beta	I-131 ^a
01-02-02	286	3.6 ± 0.4; 0.8	0.3 ± 0.4; 0.4	07-04-02	283	3.2 ± 0.4; 0.7	0.3 ± 0.5; 0.5
01-10-02	321	4.2 ± 0.4; 0.8	-	07-11-02	287	1.9 ± 0.3; 0.5	-
01-17-02	281	2.4 ± 0.4; 0.6	-0.2 ± 0.4; 0.4	07-18-02	282	3.1 ± 0.4; 0.7	-0.5 ± 0.4; 0.4
01-24-02	284	3.6 ± 0.4; 0.8	-	07-25-02	284	2.6 ± 0.4; 0.6	-
01-31-02	286	2.4 ± 0.4; 0.6	0.0 ± 0.4; 0.4	08-01-02	287	3.1 ± 0.3; 0.6	0.0 ± 0.5; 0.5
02-06-02	249	4.1 ± 0.4; 0.8	-	08-08-02	297	2.5 ± 0.3; 0.6	-
02-14-02	319	3.0 ± 0.4; 0.7	-0.2 ± 0.4; 0.4	08-15-02	282	2.9 ± 0.3; 0.6	0.5 ± 0.3; 0.4
02-21-02	282	1.8 ± 0.3; 0.4	-	08-22-02	277	2.0 ± 0.3; 0.5	-
02-28-02	285	1.9 ± 0.3; 0.5	-0.7 ± 0.5; 0.5	08-29-02	284	2.2 ± 0.3; 0.5	-0.3 ± 0.3; 0.3
03-07-02	287	3.9 ± 0.4; 0.8	-	09-05-02	287	3.3 ± 0.4; 0.7	-
03-14-02	283	3.2 ± 0.4; 0.7	-0.1 ± 0.5; 0.5	09-12-02	295	3.4 ± 0.4; 0.8	0.1 ± 0.4; 0.4
03-21-02	285	2.5 ± 0.4; 0.6	-	09-19-02	281	3.2 ± 0.4; 0.7	-
03-27-02	249	2.6 ± 0.4; 0.6	-0.8 ± 0.5; 0.5	09-26-02	300	1.9 ± 0.3; 0.5	0.2 ± 0.3; 0.3
1st Qtr. Mean±s.d.		3.0 ± 0.8	-0.2 ± 0.4	3rd Qtr. Mean±s.d.		2.7 ± 0.6	0.1 ± 0.3
04-04-02	319	2.2 ± 0.3; 0.5	-	10-03-02	285	4.1 ± 0.5; 0.9	-
04-11-02	289	2.8 ± 0.3; 0.6	-0.2 ± 0.4; 0.4	10-10-02	287	2.4 ± 0.4; 0.6	0.4 ± 0.4; 0.4
04-18-02	276	2.4 ± 0.4; 0.6	-	10-17-02	289	3.3 ± 0.4; 0.7	-
04-25-02	284	1.9 ± 0.3; 0.4	0.4 ± 0.4; 0.4	10-24-02	288	2.4 ± 0.4; 0.6	-0.1 ± 0.4; 0.4
05-02-02	290	1.9 ± 0.3; 0.5	-	10-31-02	285	2.7 ± 0.4; 0.6	-
05-09-02	282	1.5 ± 0.3; 0.4	0.0 ± 0.5; 0.5	11-07-02	287	4.6 ± 0.5; 0.9	0.2 ± 0.3; 0.3
05-16-02	283	2.2 ± 0.3; 0.5	-	11-14-02	289	3.7 ± 0.4; 0.8	-
05-22-02	247	1.7 ± 0.3; 0.4	0.4 ± 0.5; 0.5	11-21-02	285	2.3 ± 0.3; 0.5	-0.4 ± 0.4; 0.4
05-30-02	324	2.0 ± 0.3; 0.5	-	11-27-02	244	1.9 ± 0.3; 0.5	-
06-06-02	284	2.0 ± 0.4; 0.5	0.1 ± 0.3; 0.3	12-05-02	326	2.6 ± 0.3; 0.6	-0.5 ± 0.3; 0.3
06-13-02	285	1.9 ± 0.4; 0.5	-	12-12-02	282	3.8 ± 0.4; 0.8	-
06-20-02	286	2.1 ± 0.3; 0.5	-0.3 ± 0.5; 0.5	12-19-02	287	3.7 ± 0.4; 0.8	0.6 ± 0.3; 0.3
06-27-02	288	2.9 ± 0.4; 0.6	-	12-26-02	294	2.2 ± 0.3; 0.5	-
2nd Qtr. Mean±s.d.		2.1 ± 0.4	0.1 ± 0.3	4th Qtr. Mean±s.d.		3.1 ± 0.9	0.0 ± 0.4

^a Volume based on two week collection period.

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Table 1. Airborne Particulates and Iodine Cartridges
 Collection: Air Particulates - Continuous; weekly exchange
 Iodine Cartridges - Continuous; biweekly exchange
 Required LLD: Gross Beta = 0.01, I-131 = 0.07 pCi/m³
 Units: 10⁻³ pCi/m³

L-03 Onsite No. 3							
Date Collected	Volume (m ³)	Gross Beta	I-131 ^a	Date Collected	Volume (m ³)	Gross Beta	I-131 ^a
01-02-02	287	3.4 ± 0.4; 0.7	-0.5 ± 0.5; 0.5	07-04-02	282	2.9 ± 0.3; 0.6	-0.1 ± 0.4; 0.4
01-10-02	321	4.0 ± 0.4; 0.8	-	07-11-02	293	2.8 ± 0.4; 0.6	-
01-17-02	280	2.4 ± 0.4; 0.6	-0.3 ± 0.4; 0.4	07-18-02	283	3.0 ± 0.4; 0.7	-0.0 ± 0.4; 0.4
01-24-02	280	3.2 ± 0.4; 0.7	-	07-25-02	284	2.4 ± 0.4; 0.6	-
01-31-02	286	2.6 ± 0.4; 0.6	-0.2 ± 0.5; 0.5	08-01-02	287	3.4 ± 0.4; 0.7	-0.3 ± 0.4; 0.4
02-06-02	253	3.5 ± 0.4; 0.7	-	08-08-02	297	2.3 ± 0.3; 0.5	-
02-14-02	324	3.1 ± 0.4; 0.7	0.4 ± 0.5; 0.5	08-15-02	279	3.0 ± 0.4; 0.6	-0.6 ± 0.3; 0.3
02-21-02	287	1.7 ± 0.3; 0.4	-	08-22-02	286	2.2 ± 0.3; 0.5	-
02-28-02	284	1.6 ± 0.3; 0.4	0.8 ± 0.5; 0.5	08-29-02	284	2.2 ± 0.3; 0.5	-0.9 ± 0.4; 0.4
03-07-02	287	3.4 ± 0.4; 0.7	-	09-06-02	323	2.8 ± 0.4; 0.6	-
03-14-02	283	2.9 ± 0.4; 0.7	-0.2 ± 0.3; 0.3	09-12-02	243	3.4 ± 0.5; 0.8	-0.2 ± 0.3; 0.3
03-21-02	285	2.1 ± 0.4; 0.5	-	09-19-02	276	3.1 ± 0.4; 0.7	-
03-27-02	249	2.7 ± 0.4; 0.6	-0.5 ± 0.4; 0.4	09-26-02	290	2.4 ± 0.4; 0.6	-0.1 ± 0.3; 0.3
1st Qtr. Mean±s.d.		2.8 ± 0.7	-0.1 ± 0.5	3rd Qtr. Mean±s.d.		2.8 ± 0.4	-0.3 ± 0.3
04-04-02	319	2.0 ± 0.3; 0.5	-	10-03-02	280	4.5 ± 0.5; 0.9	-
04-11-02	288	2.4 ± 0.3; 0.5	0.1 ± 0.4; 0.4	10-10-02	283	2.7 ± 0.4; 0.6	-0.1 ± 0.3; 0.3
04-18-02	280	2.7 ± 0.4; 0.6	-	10-17-02	289	3.2 ± 0.4; 0.7	-
04-25-02	284	2.0 ± 0.3; 0.5	0.2 ± 0.5; 0.5	10-24-02	284	2.3 ± 0.4; 0.6	0.5 ± 0.3; 0.4
05-02-02	290	1.7 ± 0.3; 0.5	-	10-31-02	285	2.6 ± 0.4; 0.6	-
05-09-02	282	1.5 ± 0.3; 0.4	-0.4 ± 0.5; 0.5	11-07-02	287	4.6 ± 0.5; 1.0	-0.1 ± 0.3; 0.3
05-16-02	283	2.4 ± 0.3; 0.5	-	11-14-02	284	4.2 ± 0.5; 0.9	-
05-22-02	246	1.1 ± 0.3; 0.4	-0.7 ± 0.4; 0.5	11-21-02	285	2.3 ± 0.3; 0.5	0.2 ± 0.4; 0.4
05-30-02	324	2.0 ± 0.3; 0.5	-	11-27-02	244	2.0 ± 0.3; 0.5	-
06-06-02	285	2.1 ± 0.4; 0.5	-0.4 ± 0.4; 0.4	12-05-02	326	2.6 ± 0.3; 0.6	-0.4 ± 0.4; 0.4
06-13-02	285	1.4 ± 0.3; 0.4	-	12-12-02	277	4.0 ± 0.4; 0.8	-
06-20-02	286	1.9 ± 0.3; 0.5	-0.2 ± 0.4; 0.4	12-19-02	287	3.8 ± 0.4; 0.8	0.3 ± 0.4; 0.4
06-27-02	288	3.3 ± 0.4; 0.7	-	12-26-02	290	2.0 ± 0.3; 0.5	-
2nd Qtr. Mean±s.d.		2.0 ± 0.6	-0.2 ± 0.3	4th Qtr. Mean±s.d.		3.2 ± 1.0	0.1 ± 0.3

^a Volume based on two week collection period.

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

L-05 Onsite Station No. 5							
Date Collected	Volume (m ³)	Gross Beta	I-131 ^a	Date Collected	Volume (m ³)	Gross Beta	I-131 ^a
01-02-02	288	3.5 ± 0.4; 0.8	-0.1 ± 0.6; 0.6	07-04-02	283	3.1 ± 0.4; 0.7	-0.1 ± 0.4; 0.4
01-10-02	324	4.5 ± 0.4; 0.9	-	07-11-02	288	2.0 ± 0.4; 0.5	-
01-17-02	287	2.3 ± 0.4; 0.6	0.2 ± 0.4; 0.4	07-18-02	284	3.0 ± 0.4; 0.6	0.4 ± 0.4; 0.4
01-24-02	280	3.0 ± 0.4; 0.7	-	07-25-02	283	2.4 ± 0.4; 0.6	-
01-31-02	281	2.6 ± 0.4; 0.6	0.2 ± 0.5; 0.5	08-01-02	287	2.9 ± 0.3; 0.6	0.1 ± 0.4; 0.4
02-06-02	246	4.1 ± 0.4; 0.9	-	08-08-02	297	1.9 ± 0.3; 0.5	-
02-14-02	322	2.9 ± 0.4; 0.6	-0.4 ± 0.5; 0.5	08-15-02	282	3.0 ± 0.4; 0.6	-0.2 ± 0.4; 0.4
02-21-02	282	2.0 ± 0.3; 0.5	-	08-22-02	274	2.2 ± 0.3; 0.5	-
02-28-02	285	1.7 ± 0.3; 0.4	-1.2 ± 0.5; 0.5	08-29-02	287	2.1 ± 0.3; 0.5	-0.0 ± 0.4; 0.4
03-07-02	285	3.6 ± 0.4; 0.8	-	09-05-02	284	3.1 ± 0.4; 0.7	-
03-14-02	286	2.5 ± 0.4; 0.6	-0.2 ± 0.3; 0.3	09-12-02	300	3.8 ± 0.4; 0.8	-0.1 ± 0.3; 0.3
03-21-02	285	1.9 ± 0.3; 0.5	-	09-19-02	276	3.4 ± 0.4; 0.7	-
03-27-02	246	2.8 ± 0.4; 0.6	-0.8 ± 0.6; 0.6	09-26-02	292	2.2 ± 0.4; 0.5	0.2 ± 0.4; 0.4
1st Qtr. Mean±s.d.		2.9 ± 0.9	-0.3 ± 0.5	3rd Qtr. Mean±s.d.		2.7 ± 0.6	0.0 ± 0.2
04-04-02	319	2.6 ± 0.3; 0.6	-	10-03-02	281	4.2 ± 0.5; 0.9	-
04-11-02	288	2.5 ± 0.3; 0.6	-0.0 ± 0.4; 0.4	10-10-02	282	2.8 ± 0.4; 0.6	0.1 ± 0.3; 0.4
04-18-02	281	2.7 ± 0.4; 0.6	-	10-17-02	286	3.2 ± 0.4; 0.7	-
04-25-02	285	1.7 ± 0.3; 0.4	-0.4 ± 0.5; 0.5	10-24-02	284	2.8 ± 0.4; 0.6	-0.1 ± 0.3; 0.3
05-02-02	290	1.7 ± 0.3; 0.4	-	10-31-02	287	2.3 ± 0.4; 0.6	-
05-09-02	282	1.9 ± 0.3; 0.5	-0.1 ± 0.4; 0.4	11-07-02	288	5.2 ± 0.5; 1.1	0.4 ± 0.3; 0.3
05-16-02	283	2.1 ± 0.3; 0.5	-	11-14-02	288	3.6 ± 0.4; 0.8	-
05-22-02	245	1.4 ± 0.3; 0.4	-0.4 ± 0.5; 0.5	11-21-02	284	2.1 ± 0.3; 0.5	0.5 ± 0.3; 0.4
05-30-02	325	1.8 ± 0.3; 0.4	-	11-27-02	244	1.7 ± 0.3; 0.4	-
06-06-02	285	1.7 ± 0.3; 0.5	-0.3 ± 0.4; 0.4	12-05-02	326	2.6 ± 0.3; 0.6	0.2 ± 0.4; 0.4
06-13-02	285	1.4 ± 0.3; 0.4	-	12-12-02	282	4.0 ± 0.4; 0.8	-
06-20-02	284	1.9 ± 0.3; 0.5	0.1 ± 0.4; 0.4	12-19-02	285	3.8 ± 0.4; 0.8	0.1 ± 0.4; 0.4
06-27-02	287	2.9 ± 0.4; 0.7	-	12-26-02	286	2.1 ± 0.3; 0.5	-
2nd Qtr. Mean±s.d.		2.0 ± 0.5	-0.2 ± 0.2	4th Qtr. Mean±s.d.		3.1 ± 1.0	0.2 ± 0.2

^a Volume based on two week collection period.

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

L-06 Nearsite No. 6							
Date Collected	Volume (m ³)	Gross Beta	I-131 ^a	Date Collected	Volume (m ³)	Gross Beta	I-131 ^a
01-02-02	286	3.6 ± 0.4 ; 0.8	-0.3 ± 0.5 ; 0.5	07-04-02	282	2.9 ± 0.3 ; 0.6	-0.3 ± 0.4 ; 0.5
01-10-02	321	4.0 ± 0.4 ; 0.8	-	07-11-02	288	2.2 ± 0.4 ; 0.5	-
01-17-02	281	2.7 ± 0.4 ; 0.6	0.3 ± 0.3 ; 0.3	07-18-02	282	2.9 ± 0.4 ; 0.6	-0.1 ± 0.4 ; 0.4
01-24-02	284	3.9 ± 0.4 ; 0.8	-	07-25-02	284	3.0 ± 0.4 ; 0.7	-
01-31-02	286	2.6 ± 0.4 ; 0.6	0.3 ± 0.5 ; 0.5	08-01-02	287	3.1 ± 0.3 ; 0.7	0.4 ± 0.4 ; 0.4
02-06-02	249	3.7 ± 0.4 ; 0.8	-	08-08-02	297	2.3 ± 0.3 ; 0.5	-
02-14-02	319	3.3 ± 0.4 ; 0.7	0.2 ± 0.5 ; 0.5	08-15-02	281	3.0 ± 0.4 ; 0.6	0.1 ± 0.4 ; 0.4
02-21-02	287	1.8 ± 0.3 ; 0.4	-	08-22-02	274	1.7 ± 0.3 ; 0.4	-
02-28-02	285	1.7 ± 0.3 ; 0.5	-0.2 ± 0.5 ; 0.5	08-29-02	284	2.1 ± 0.3 ; 0.5	0.1 ± 0.3 ; 0.3
03-07-02	287	3.6 ± 0.4 ; 0.8	-	09-05-02	282	3.2 ± 0.4 ; 0.7	-
03-14-02	283	3.0 ± 0.4 ; 0.7	-0.2 ± 0.2 ; 0.2	09-12-02	295	3.7 ± 0.4 ; 0.8	0.2 ± 0.3 ; 0.3
03-21-02	285	1.8 ± 0.3 ; 0.5	-	09-19-02	267	3.3 ± 0.4 ; 0.7	-
03-27-02	249	1.9 ± 0.4 ; 0.5	0.1 ± 0.4 ; 0.4	09-26-02	300	2.2 ± 0.3 ; 0.5	0.1 ± 0.3 ; 0.3
1st Qtr. Mean±s.d.		2.9 ± 0.9	0.0 ± 0.2	3rd Qtr. Mean±s.d.		2.7 ± 0.6	0.1 ± 0.2
04-04-02	319	2.3 ± 0.3 ; 0.5	-	10-03-02	280	4.0 ± 0.5 ; 0.8	-
04-11-02	288	2.6 ± 0.3 ; 0.6	-0.4 ± 0.5 ; 0.5	10-10-02	287	2.6 ± 0.4 ; 0.6	0.0 ± 0.4 ; 0.4
04-18-02	280	2.8 ± 0.4 ; 0.6	-	10-17-02	289	3.3 ± 0.4 ; 0.7	-
04-25-02	284	2.0 ± 0.3 ; 0.5	0.0 ± 0.4 ; 0.4	10-24-02	279	2.7 ± 0.4 ; 0.6	-0.0 ± 0.4 ; 0.4
05-02-02	290	2.2 ± 0.4 ; 0.5	-	10-31-02	285	2.6 ± 0.4 ; 0.6	-
05-09-02	282	2.1 ± 0.3 ; 0.5	-1.0 ± 0.5 ; 0.6	11-07-02	287	5.1 ± 0.5 ; 1.0	0.2 ± 0.3 ; 0.3
05-16-02	283	2.3 ± 0.3 ; 0.5	-	11-14-02	284	3.8 ± 0.4 ; 0.8	-
05-22-02	246	1.2 ± 0.3 ; 0.4	-0.1 ± 0.4 ; 0.4	11-21-02	285	2.4 ± 0.3 ; 0.6	-0.7 ± 0.3 ; 0.4
05-30-02	324	1.9 ± 0.3 ; 0.4	-	11-27-02	244	1.5 ± 0.3 ; 0.4	-
06-06-02	284	2.1 ± 0.4 ; 0.5	-0.1 ± 0.4 ; 0.4	12-05-02	326	2.3 ± 0.3 ; 0.5	0.2 ± 0.3 ; 0.3
06-13-02	285	2.2 ± 0.4 ; 0.5	-	12-12-02	282	3.9 ± 0.4 ; 0.8	-
06-20-02	286	2.1 ± 0.3 ; 0.5	-0.1 ± 0.5 ; 0.5	12-19-02	287	4.0 ± 0.5 ; 0.9	0.1 ± 0.3 ; 0.3
06-27-02	288	3.6 ± 0.4 ; 0.8	-	12-26-02	290	1.8 ± 0.3 ; 0.4	-
2nd Qtr. Mean±s.d.		2.3 ± 0.5	-0.3 ± 0.4	4th Qtr. Mean±s.d.		3.1 ± 1.0	-0.0 ± 0.3

^a Volume based on two week collection period.

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

L-10 (C) Streator							
Date Collected	Volume (m ³)	Gross Beta	I-131 ^a	Date Collected	Volume (m ³)	Gross Beta	I-131 ^a
01-02-02	288	3.7 ± 0.4; 0.8	-0.3 ± 0.5; 0.5	07-04-02	283	2.8 ± 0.3; 0.6	0.1 ± 0.4; 0.4
01-10-02	319	4.8 ± 0.4; 0.9	-	07-11-02	287	2.6 ± 0.4; 0.6	-
01-17-02	287	2.6 ± 0.4; 0.6	-0.1 ± 0.5; 0.5	07-18-02	283	3.4 ± 0.4; 0.7	-0.5 ± 0.5; 0.5
01-24-02	285	3.3 ± 0.4; 0.7	-	07-25-02	285	2.4 ± 0.4; 0.6	-
01-31-02	285	2.2 ± 0.4; 0.5	0.2 ± 0.4; 0.4	08-01-02	285	3.0 ± 0.3; 0.6	-0.4 ± 0.4; 0.4
02-06-02	246	3.9 ± 0.4; 0.8	-	08-08-02	300	2.4 ± 0.3; 0.5	-
02-14-02	322	3.6 ± 0.4; 0.8	-0.3 ± 0.5; 0.5	08-15-02	282	3.2 ± 0.4; 0.7	-0.4 ± 0.4; 0.4
02-21-02	287	1.5 ± 0.3; 0.4	-	08-22-02	274	2.1 ± 0.3; 0.5	-
02-28-02	285	2.0 ± 0.4; 0.5	-0.4 ± 0.5; 0.5	08-29-02	285	2.0 ± 0.3; 0.5	-0.2 ± 0.3; 0.4
03-07-02	284	3.8 ± 0.4; 0.8	-	09-05-02	286	3.1 ± 0.3; 0.6	-
03-14-02	286	3.1 ± 0.4; 0.7	0.2 ± 0.4; 0.4	09-12-02	292	3.7 ± 0.4; 0.8	0.0 ± 0.4; 0.4
03-21-02	285	2.0 ± 0.4; 0.5	-	09-19-02	276	3.5 ± 0.4; 0.8	-
03-27-02	246	2.6 ± 0.4; 0.6	0.2 ± 0.5; 0.5	09-26-02	290	2.3 ± 0.4; 0.5	-0.1 ± 0.4; 0.4
1st Qtr. Mean±s.d.		3.0 ± 0.9	-0.1 ± 0.3	3rd Qtr. Mean±s.d.		2.8 ± 0.6	-0.2 ± 0.2
04-04-02	324	2.3 ± 0.3; 0.5	-	10-03-02	287	4.2 ± 0.5; 0.9	-
04-11-02	282	2.4 ± 0.3; 0.5	0.7 ± 0.4; 0.4	10-10-02	282	2.9 ± 0.4; 0.7	0.2 ± 0.3; 0.3
04-18-02	281	2.7 ± 0.4; 0.6	-	10-17-02	285	3.2 ± 0.4; 0.7	-
04-25-02	280	1.9 ± 0.3; 0.5	0.7 ± 0.4; 0.4	10-24-02	285	2.5 ± 0.4; 0.6	0.1 ± 0.4; 0.4
05-02-02	286	1.8 ± 0.3; 0.5	-	10-31-02	287	3.0 ± 0.4; 0.7	-
05-09-02	282	1.9 ± 0.3; 0.5	0.4 ± 0.4; 0.4	11-07-02	287	5.3 ± 0.5; 1.1	0.5 ± 0.3; 0.3
05-16-02	283	2.1 ± 0.3; 0.5	-	11-14-02	284	4.4 ± 0.5; 0.9	-
05-22-02	245	1.2 ± 0.3; 0.4	0.1 ± 0.5; 0.5	11-21-02	285	2.1 ± 0.3; 0.5	0.2 ± 0.4; 0.4
05-30-02	325	1.8 ± 0.3; 0.4	-	11-27-02	248	2.0 ± 0.3; 0.5	-
06-06-02	285	1.7 ± 0.4; 0.5	-0.1 ± 0.4; 0.4	12-05-02	324	2.8 ± 0.3; 0.6	-0.3 ± 0.3; 0.3
06-13-02	280	1.9 ± 0.4; 0.5	-	12-12-02	285	4.4 ± 0.4; 0.9	-
06-20-02	285	2.2 ± 0.3; 0.5	-0.4 ± 0.4; 0.4	12-19-02	285	4.4 ± 0.5; 0.9	-0.1 ± 0.4; 0.4
06-27-02	287	3.3 ± 0.4; 0.7	-	12-26-02	285	2.4 ± 0.3; 0.5	-
2nd Qtr. Mean±s.d.		2.1 ± 0.5	0.2 ± 0.4	4th Qtr. Mean±s.d.		3.4 ± 1.1	0.1 ± 0.3

^a Volume based on two week collection period.

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Table 2. Airborne Particulates

Collection: Quarterly composites of weekly collections
 ODCM-
 Required LLDs: Cs-134 = 0.01, Cs-137 = 0.01 pCi/m³
 Other LLDs: Mn-54 = 0.01; Fe-59 = 0.015; Co-58, Co-60 = 0.01; Zn-65 = 0.04; Zr/Nb-95 = 0.01;
 Ba/La-140 = 0.025 pCi/m³
 Units: 10⁻⁴ pCi/m³

Sample Description and Concentration

L-01 Nearsite No. 1

2002 Collection Period	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.
Lab Code	LAP-2793	LAP-5004	LAP-7356	LAP-8889
Volume	3,704	3,744	3,731	3,735
Mn-54	5.8 ± 4.9 ; 5.0	0.8 ± 6.2 ; 6.2	6.7 ± 5.0 ; 5.1	-0.9 ± 5.4 ; 5.4
Fe-59	-25.2 ± 11.0 ; 11.9	17.3 ± 12.6 ; 12.9	-21.1 ± 11.5 ; 12.1	-3.7 ± 9.3 ; 9.3
Co-58	-0.5 ± 4.8 ; 4.8	-4.8 ± 5.5 ; 5.6	-4.1 ± 5.4 ; 5.5	1.2 ± 4.1 ; 4.1
Co-60	7.7 ± 5.6 ; 5.8	-0.9 ± 4.7 ; 4.7	-3.1 ± 6.3 ; 6.3	1.7 ± 2.4 ; 2.4
Zn-65	10.2 ± 13.9 ; 14.0	-5.0 ± 12.6 ; 12.6	5.6 ± 12.3 ; 12.3	14.6 ± 12.4 ; 12.6
Zr/Nb-95	8.1 ± 6.1 ; 6.3	10.7 ± 4.4 ; 4.8	-7.1 ± 11.3 ; 11.4	-14.7 ± 11.3 ; 11.6
Cs-134	10.5 ± 6.4 ; 6.7	7.8 ± 6.6 ; 6.7	1.8 ± 7.2 ; 7.2	4.7 ± 6.1 ; 6.2
Cs-137	2.9 ± 6.2 ; 6.2	-4.1 ± 6.4 ; 6.4	5.9 ± 6.0 ; 6.1	0.5 ± 5.5 ; 5.5
Ba/La-140	-106.2 ± 9.1 ; 21.0	9.0 ± 7.2 ; 7.3	45.1 ± 4.7 ; 9.3	65.7 ± 5.2 ; 12.8

L-03 Onsite No. 3

2002 Collection Period	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.
Lab Code	LAP-2794	LAP-5005	LAP-7357	LAP-8890,1
Volume	3,713	3,747	3,713	3,707
Mn-54	-0.4 ± 5.3 ; 5.3	-1.1 ± 5.1 ; 5.1	6.7 ± 5.0 ; 5.2	3.2 ± 4.5 ; 4.5
Fe-59	-1.6 ± 12.2 ; 12.2	-23.1 ± 10.9 ; 11.7	11.8 ± 5.6 ; 6.0	6.3 ± 7.6 ; 7.6
Co-58	3.8 ± 4.8 ; 4.8	6.2 ± 6.5 ; 6.6	-5.5 ± 4.2 ; 4.3	2.6 ± 2.9 ; 2.9
Co-60	1.3 ± 5.7 ; 5.7	-6.9 ± 8.6 ; 8.6	-1.3 ± 6.8 ; 6.8	-3.4 ± 4.8 ; 4.9
Zn-65	-12.2 ± 17.5 ; 17.7	3.0 ± 14.5 ; 14.5	-27.4 ± 13.7 ; 14.6	7.7 ± 8.5 ; 8.6
Zr/Nb-95	-3.0 ± 6.3 ; 6.3	5.0 ± 4.5 ; 4.5	-11.6 ± 5.0 ; 5.4	1.1 ± 2.9 ; 2.9
Cs-134	-3.7 ± 9.1 ; 9.2	6.1 ± 6.2 ; 6.3	8.9 ± 5.8 ; 6.0	-3.0 ± 4.4 ; 4.5
Cs-137	-6.4 ± 7.7 ; 7.8	-4.3 ± 7.4 ; 7.5	5.9 ± 6.0 ; 6.1	2.4 ± 4.0 ; 4.0
Ba/La-140	11.8 ± 7.2 ; 7.5	76.0 ± 6.9 ; 15.2	-68.2 ± 7.3 ; 14.2	1.7 ± 5.5 ; 5.5

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Table 2. Airborne Particulates

Collection: Quarterly composites of weekly collections
 ODCM-
 Required LLDs: Cs-134 = 0.01, Cs-137 = 0.01 pCi/m³
 Other LLDs: Mn-54 = 0.01; Fe-59 = 0.015; Co-58, Co-60 = 0.01; Zn-65 = 0.04; Zr/Nb-95 = 0.01;
 Ba/La-140 = 0.025 pCi/m³
 Units: 10⁻⁴ pCi/m³

Sample Description and Concentration

<u>L-05 Onsite Station No. 5</u>				
2002 Collection Period	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.
Lab Code	LAP-2795	LAP-5006	LAP-7358,9	LAP-8892
Volume	3,703	3,745	3,723	3,709
Mn-54	-12.7 ± 7.4 ; 7.7	-0.8 ± 6.0 ; 6.0	2.7 ± 3.9 ; 3.9	4.0 ± 5.2 ; 5.2
Fe-59	9.5 ± 11.6 ; 11.7	2.9 ± 10.0 ; 10.0	4.1 ± 5.5 ; 5.5	7.5 ± 9.2 ; 9.3
Co-58	3.0 ± 3.6 ; 3.7	7.7 ± 4.7 ; 4.9	-1.3 ± 4.0 ; 4.0	6.5 ± 3.8 ; 3.9
Co-60	-4.8 ± 9.2 ; 9.3	4.5 ± 6.7 ; 6.8	0.2 ± 3.5 ; 3.5	0.3 ± 5.9 ; 5.9
Zn-65	-7.2 ± 16.7 ; 16.7	11.0 ± 11.4 ; 11.6	-2.8 ± 8.1 ; 8.1	18.0 ± 9.5 ; 10.0
Zr/Nb-95	-8.4 ± 3.5 ; 3.8	11.2 ± 6.9 ; 7.2	-5.5 ± 4.0 ; 4.1	-6.1 ± 4.7 ; 4.8
Cs-134	8.7 ± 6.9 ; 7.0	-2.1 ± 5.9 ; 5.9	1.0 ± 4.4 ; 4.4	5.6 ± 5.2 ; 5.3
Cs-137	3.4 ± 6.9 ; 6.9	3.6 ± 5.6 ; 5.7	1.1 ± 3.6 ; 3.6	-6.6 ± 5.4 ; 5.6
Ba/La-140	-78.3 ± 9.8 ; 17.1	32.7 ± 4.6 ; 7.4	13.4 ± 4.2 ; 4.8	32.0 ± 6.5 ; 8.6

<u>L-06 Nearsite No. 6</u>				
2002 Collection Period	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.
Lab Code	LAP-2796	LAP-5007	LAP-7360	LAP-8893
Volume	3,709	3,748	3,709	3,711
Mn-54	1.5 ± 6.5 ; 6.5	0.8 ± 4.4 ; 4.4	7.3 ± 3.8 ; 4.0	0.3 ± 5.6 ; 5.6
Fe-59	-6.3 ± 9.0 ; 9.1	-7.2 ± 11.2 ; 11.3	16.6 ± 6.6 ; 7.3	-8.8 ± 11.8 ; 11.9
Co-58	5.1 ± 4.1 ; 4.2	-3.5 ± 4.2 ; 4.2	-0.5 ± 4.5 ; 4.5	-6.7 ± 4.6 ; 4.8
Co-60	1.5 ± 7.7 ; 7.7	2.7 ± 9.4 ; 9.4	0.3 ± 5.9 ; 5.9	4.5 ± 5.6 ; 5.7
Zn-65	1.0 ± 14.2 ; 14.2	12.0 ± 8.6 ; 8.8	-4.8 ± 11.9 ; 11.9	10.6 ± 9.8 ; 9.9
Zr/Nb-95	-18.8 ± 6.1 ; 6.9	-11.4 ± 6.5 ; 6.8	-27.2 ± 12.4 ; 13.3	3.8 ± 5.1 ; 5.2
Cs-134	-3.4 ± 8.0 ; 8.0	0.4 ± 5.7 ; 5.7	0.8 ± 6.0 ; 6.0	-1.7 ± 4.8 ; 4.8
Cs-137	-11.2 ± 7.1 ; 7.4	0.7 ± 6.7 ; 6.7	0.4 ± 6.3 ; 6.3	2.8 ± 5.0 ; 5.1
Ba/La-140	-61.8 ± 7.7 ; 13.4	-14.5 ± 9.0 ; 9.3	16.8 ± 6.1 ; 6.8	9.4 ± 5.8 ; 6.0

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Table 2. Airborne Particulates

Collection: Quarterly composites of weekly collections
 ODCM-
 Required LLDs: Cs-134 = 0.01, Cs-137 = 0.01 pCi/m³
 Other LLDs: Mn-54 = 0.01; Fe-59 = 0.015; Co-58, Co-60 = 0.01; Zn-65 = 0.04; Zr/Nb-95 = 0.01;
 Ba/La-140 = 0.025 pCi/m³
 Units: 10⁻⁴ pCi/m³

Sample Description and Concentration

L-10 (C) Streator

2002 Collection Period	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.
Lab Code	LAP-2797	LAP-5008	LAP-7361	LAP-8894
Volume	3,712	3,731	3,714	3,717
Mn-54	3.1 ± 6.8 ; 6.8	-9.5 ± 6.4 ; 6.6	5.2 ± 5.4 ; 5.5	-2.5 ± 5.7 ; 5.7
Fe-59	-1.6 ± 12.2 ; 12.2	4.4 ± 8.1 ; 8.1	-5.9 ± 12.1 ; 12.1	-7.5 ± 10.5 ; 10.6
Co-58	8.0 ± 5.4 ; 5.6	-0.3 ± 3.9 ; 3.9	1.7 ± 5.3 ; 5.3	0.6 ± 3.3 ; 3.3
Co-60	1.8 ± 10.6 ; 10.6	9.8 ± 6.4 ; 6.6	0.4 ± 7.2 ; 7.2	1.9 ± 4.8 ; 4.8
Zn-65	-4.1 ± 10.2 ; 10.2	-7.0 ± 12.1 ; 12.1	14.5 ± 8.6 ; 8.9	-1.6 ± 12.5 ; 12.5
Zr/Nb-95	3.0 ± 6.8 ; 6.8	-6.0 ± 7.1 ; 7.1	-10.7 ± 5.6 ; 5.9	4.3 ± 4.2 ; 4.3
Cs-134	-0.8 ± 7.8 ; 7.8	1.2 ± 5.9 ; 5.9	4.0 ± 6.6 ; 6.6	2.1 ± 6.2 ; 6.2
Cs-137	4.3 ± 5.8 ; 5.8	-0.7 ± 6.6 ; 6.6	1.3 ± 6.8 ; 6.8	3.9 ± 5.2 ; 5.2
Ba/La-140	-30.9 ± 5.5 ; 7.8	-47.6 ± 7.7 ; 11.4	-30.6 ± 6.5 ; 8.5	41.6 ± 8.7 ; 11.4

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Table 3 . Milk	
Collection:	Biweekly (May - October) Monthly (November - April)
ODCM- Required LLDs:	I-131 = 0.5 pCi/L (May - October), I-131= 5 pCi/L (November - April), Cs-134 = 15, Cs-137 = 18, Ba/La-140 = 15 pCi/L
Other LLDs:	Mn-54 = 10; Fe-59 = 15; Co-58, Co-60 = 10; Zn-65 = 15; Zr/Nb-95 = 10 pCi/L
Units:	pCi/L

Sample Description and Concentration

L-42 (C) Biros Farm

Date Collected	01-02-02	02-07-02	03-07-02	04-04-02
Lab Code	LMI-42	LMI-779	LMI-1457	LMI-2061
I-131	-0.02 ± 0.17 ; 0.17	0.08 ± 0.20 ; 0.20	-0.12 ± 0.18 ; 0.18	0.02 ± 0.19 ; 0.19
Mn-54	-1.1 ± 1.8 ; 1.8	-1.6 ± 3.8 ; 3.8	2.7 ± 3.9 ; 3.9	-2.0 ± 2.9 ; 2.9
Fe-59	-2.6 ± 3.8 ; 3.8	-3.2 ± 7.7 ; 7.7	-2.4 ± 8.0 ; 8.0	-0.3 ± 6.0 ; 6.0
Co-58	0.2 ± 1.8 ; 1.8	-3.7 ± 3.9 ; 4.0	0.0 ± 3.9 ; 3.9	-1.1 ± 3.1 ; 3.1
Co-60	3.0 ± 2.0 ; 2.0	1.1 ± 4.8 ; 4.8	-0.4 ± 2.6 ; 2.6	-0.7 ± 3.1 ; 3.2
Zn-65	-3.1 ± 5.4 ; 5.4	-4.1 ± 8.7 ; 8.7	2.3 ± 6.9 ; 6.9	2.8 ± 6.8 ; 6.8
Zr/Nb-95	-1.5 ± 1.7 ; 1.7	-3.0 ± 3.7 ; 3.7	1.9 ± 3.3 ; 3.3	-1.0 ± 3.2 ; 3.2
Cs-134	1.3 ± 1.8 ; 1.8	2.9 ± 3.8 ; 3.8	0.8 ± 3.7 ; 3.7	-0.9 ± 3.9 ; 3.9
Cs-137	0.5 ± 1.9 ; 1.9	1.6 ± 3.3 ; 3.3	1.7 ± 3.8 ; 3.8	2.6 ± 3.7 ; 3.7
Ba/La-140	0.4 ± 1.7 ; 1.7	0.8 ± 4.3 ; 4.3	1.5 ± 3.6 ; 3.6	1.0 ± 3.6 ; 3.7

Date Collected	05-02-02	05-16-02	05-30-02	06-13-02
Lab Code	LMI-2935	LMI-3247	LMI-3478	LMI-3831
I-131	0.05 ± 0.17 ; 0.17	-0.13 ± 0.22 ; 0.22	-0.21 ± 0.19 ; 0.19	-0.12 ± 0.19 ; 0.19
Mn-54	-1.5 ± 1.6 ; 1.6	-0.7 ± 1.9 ; 1.9	1.3 ± 2.0 ; 2.0	0.3 ± 3.3 ; 3.3
Fe-59	-3.4 ± 3.8 ; 3.8	-5.8 ± 4.4 ; 4.5	-3.4 ± 4.4 ; 4.4	5.3 ± 6.9 ; 6.9
Co-58	-1.7 ± 1.5 ; 1.5	0.4 ± 1.7 ; 1.7	-1.3 ± 1.6 ; 1.6	2.0 ± 3.1 ; 3.1
Co-60	0.7 ± 1.9 ; 1.9	0.6 ± 2.4 ; 2.4	2.4 ± 2.3 ; 2.3	2.5 ± 3.5 ; 3.5
Zn-65	-1.5 ± 4.3 ; 4.3	2.8 ± 5.1 ; 5.1	-4.8 ± 5.1 ; 5.1	-2.5 ± 7.8 ; 7.8
Zr/Nb-95	0.7 ± 1.7 ; 1.7	-1.7 ± 1.9 ; 1.9	-0.3 ± 2.1 ; 2.1	0.6 ± 2.8 ; 2.8
Cs-134	-0.5 ± 1.8 ; 1.8	-0.1 ± 2.2 ; 2.2	-0.5 ± 2.0 ; 2.0	-1.5 ± 3.7 ; 3.7
Cs-137	0.9 ± 1.9 ; 1.9	-0.8 ± 2.1 ; 2.1	-1.9 ± 2.2 ; 2.2	1.1 ± 3.5 ; 3.5
Ba/La-140	-1.1 ± 1.6 ; 1.6	2.7 ± 2.1 ; 2.1	5.0 ± 2.0 ; 2.1	1.6 ± 2.8 ; 2.8

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Table 3. Milk

Collection:	Biweekly (May - October) Monthly (November - April)
ODCM- Required LLDs:	I-131 = 0.5 pCi/L (May - October), I-131 = 5 pCi/L (November - April), Cs-134 = 15, Cs-137 = 18, Ba/La-140 = 15 pCi/L
Other LLDs:	Mn-54 = 10; Fe-59 = 15; Co-58, Co-60 = 10; Zn-65 = 15; Zr/Nb-95 = 10 pCi/L
Units:	pCi/L

Sample Description and Concentration

L-42 (C) Biros Farm

Date Collected	06-27-02	07-11-02	07-25-02	08-08-02
Lab Code	LMI-4273	LMI-4556	LMI-4961,2	LMI-5265
I-131	-0.15 ± 0.18 ; 0.18	-0.29 ± 0.19 ; 0.20	-0.00 ± 0.14 ; 0.14	-0.01 ± 0.26 ; 0.26
Mn-54	-0.6 ± 1.5 ; 1.5	-0.3 ± 0.7 ; 0.7	-1.5 ± 1.7 ; 1.7	-1.3 ± 3.6 ; 3.6
Fe-59	-1.2 ± 3.3 ; 3.3	-0.4 ± 1.5 ; 1.5	-0.6 ± 3.7 ; 3.7	-1.4 ± 7.5 ; 7.5
Co-58	0.3 ± 1.5 ; 1.5	-0.2 ± 0.7 ; 0.7	-1.7 ± 1.7 ; 1.7	-0.0 ± 3.3 ; 3.3
Co-60	-0.2 ± 1.7 ; 1.7	0.7 ± 0.8 ; 0.8	0.6 ± 2.1 ; 2.1	0.6 ± 4.0 ; 4.0
Zn-65	-2.8 ± 3.8 ; 3.8	-2.5 ± 1.9 ; 1.9	-2.2 ± 4.2 ; 4.2	-3.6 ± 8.3 ; 8.3
Zr/Nb-95	-1.1 ± 1.6 ; 1.6	-1.2 ± 0.7 ; 0.8	-0.4 ± 1.5 ; 1.5	0.7 ± 3.4 ; 3.4
Cs-134	-0.7 ± 1.5 ; 1.5	-0.7 ± 0.8 ; 0.8	1.9 ± 2.0 ; 2.0	0.7 ± 3.5 ; 3.5
Cs-137	0.9 ± 1.8 ; 1.8	0.5 ± 0.8 ; 0.8	1.6 ± 2.0 ; 2.0	-1.8 ± 4.0 ; 4.1
Ba/La-140	-6.0 ± 1.5 ; 1.7	-2.4 ± 0.7 ; 0.8	-0.8 ± 1.7 ; 1.7	1.0 ± 3.0 ; 3.0
Date Collected	08-22-02	09-05-02	09-19-02	10-03-02
Lab Code	LMI-5537	LMI-5785	LMI-6166	LMI-6530
I-131	0.02 ± 0.13 ; 0.13	-0.13 ± 0.18 ; 0.18	0.01 ± 0.16 ; 0.16	-0.09 ± 0.14 ; 0.14
Mn-54	-0.0 ± 0.7 ; 0.7	-0.2 ± 2.1 ; 2.1	-1.3 ± 2.2 ; 2.2	-2.6 ± 3.6 ; 3.6
Fe-59	-2.5 ± 1.9 ; 2.0	2.7 ± 4.5 ; 4.5	0.4 ± 3.8 ; 3.8	1.2 ± 7.4 ; 7.4
Co-58	-0.7 ± 0.7 ; 0.7	0.0 ± 2.5 ; 2.5	-0.4 ± 1.8 ; 1.8	1.0 ± 3.0 ; 3.0
Co-60	-0.2 ± 0.9 ; 0.9	-1.2 ± 2.5 ; 2.6	-0.4 ± 2.1 ; 2.1	-0.3 ± 5.0 ; 5.0
Zn-65	-1.8 ± 2.1 ; 2.1	-1.7 ± 6.3 ; 6.3	-6.9 ± 5.4 ; 5.5	2.8 ± 6.7 ; 6.8
Zr/Nb-95	0.2 ± 0.8 ; 0.8	1.2 ± 2.3 ; 2.4	-2.3 ± 2.2 ; 2.2	0.3 ± 3.6 ; 3.6
Cs-134	-0.4 ± 0.8 ; 0.8	0.0 ± 2.3 ; 2.3	0.2 ± 2.4 ; 2.4	0.6 ± 3.7 ; 3.7
Cs-137	0.4 ± 0.8 ; 0.8	2.5 ± 2.6 ; 2.6	-2.6 ± 2.3 ; 2.3	-0.1 ± 3.8 ; 3.8
Ba/La-140	1.6 ± 0.7 ; 0.8	0.5 ± 2.5 ; 2.5	-0.9 ± 2.1 ; 2.1	-0.8 ± 2.9 ; 2.9

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Table 3. Milk

Collection:	Biweekly (May - October) Monthly (November - April)
ODCM- Required LLDs:	I-131 = 0.5 pCi/L (May - October), I-131 = 5 pCi/L (November - April), Cs-134 = 15, Cs-137 = 18, Ba/La-140 = 15 pCi/L
Other LLDs:	Mn-54 = 10; Fe-59 = 15; Co-58, Co-60 = 10; Zn-65 = 15; Zr/Nb-95 = 10 pCi/L
Units:	pCi/L

Sample Description and Concentration

L-42 (C) Biros Farm

Date Collected	10-17-02	10-31-02	11-14-02	12-05-02
Lab Code	LMI-7004	LMI-7454	LMI-7810	LMI-8142
I-131	-0.02 ± 0.15 ; 0.15	-0.06 ± 0.16 ; 0.16	-0.04 ± 0.16 ; 0.16	-0.07 ± 0.15 ; 0.15
Mn-54	0.9 ± 2.4 ; 2.4	2.0 ± 2.0 ; 2.1	1.1 ± 1.9 ; 1.9	1.4 ± 1.9 ; 1.9
Fe-59	0.5 ± 4.6 ; 4.6	2.8 ± 4.7 ; 4.8	-3.8 ± 3.9 ; 3.9	0.8 ± 4.6 ; 4.6
Co-58	-1.1 ± 2.4 ; 2.4	0.9 ± 2.2 ; 2.2	0.4 ± 1.5 ; 1.5	0.9 ± 1.8 ; 1.8
Co-60	-2.0 ± 2.7 ; 2.7	0.5 ± 2.3 ; 2.3	0.8 ± 2.2 ; 2.2	-0.4 ± 2.6 ; 2.6
Zn-65	-10.8 ± 6.7 ; 6.8	1.1 ± 5.9 ; 5.9	-11.3 ± 5.4 ; 5.6	-4.9 ± 5.9 ; 5.9
Zr/Nb-95	-3.1 ± 2.7 ; 2.7	1.2 ± 1.9 ; 1.9	-0.9 ± 2.1 ; 2.1	-0.7 ± 2.1 ; 2.1
Cs-134	-2.4 ± 2.6 ; 2.6	2.0 ± 2.3 ; 2.3	-0.8 ± 2.0 ; 2.0	1.1 ± 2.4 ; 2.4
Cs-137	-0.7 ± 2.7 ; 2.7	0.3 ± 2.4 ; 2.4	-3.1 ± 1.9 ; 2.0	-0.1 ± 2.2 ; 2.2
Ba/La-140	0.9 ± 2.2 ; 2.2	-2.8 ± 2.5 ; 2.5	2.5 ± 1.9 ; 1.9	-0.9 ± 1.8 ; 1.8

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Table 4. Fish, Edible Portions

Collection: Semiannually
 ODCM-
 Required LLDs: Mn-54 = 0.13, Fe-59 = 0.26, Co-58 = 0.13, Co-60 = 0.13, Zn-65 = 0.26, Cs-134 = 0.1, Cs-137 = 0.1 pCi/g wet weight
 Other LLDs: Zr/Nb-95 = 0.20, Ba/La-140 = 0.30 pCi/g wet weight
 Units: 10^{-2} pCi/g wet weight

Sample Description and Concentration

L-35 (C) Marseilles Pool of Illinois River

Date Collected	05-01-02	05-01-02	10-02-02	10-02-02
Lab Code	LF-2879	LF-2880	LF-6434	LF-6435
Type	Channel Catfish	Freshwater Drum	Channel Catfish	Smallmouth Buffalo
Mn-54	-0.3 ± 0.6 ; 0.6	1.5 ± 0.8 ; 0.8	0.2 ± 0.8 ; 0.8	0.1 ± 0.5 ; 0.5
Fe-59	0.7 ± 1.1 ; 1.1	-0.7 ± 1.9 ; 1.9	0.5 ± 1.7 ; 1.7	-0.1 ± 1.2 ; 1.2
Co-58	-0.2 ± 0.5 ; 0.5	-0.5 ± 0.7 ; 0.7	-0.1 ± 0.6 ; 0.6	0.5 ± 0.5 ; 0.5
Co-60	0.2 ± 0.7 ; 0.7	0.1 ± 1.1 ; 1.1	0.7 ± 0.7 ; 0.7	0.2 ± 0.6 ; 0.6
Zn-65	-1.1 ± 1.6 ; 1.6	0.4 ± 2.2 ; 2.2	-0.7 ± 1.6 ; 1.6	-0.7 ± 1.5 ; 1.5
Zr/Nb-95	-0.0 ± 0.5 ; 0.5	-0.2 ± 0.7 ; 0.7	-0.4 ± 0.7 ; 0.7	0.6 ± 0.6 ; 0.6
Cs-134	-0.3 ± 0.6 ; 0.6	-0.3 ± 0.8 ; 0.8	0.4 ± 0.7 ; 0.7	0.1 ± 0.6 ; 0.6
Cs-137	0.3 ± 0.6 ; 0.6	-0.1 ± 0.8 ; 0.8	0.3 ± 0.7 ; 0.7	-0.2 ± 0.5 ; 0.5
Ba/La-140	-0.3 ± 0.7 ; 0.7	-2.1 ± 1.1 ; 1.1	0.7 ± 0.6 ; 0.6	-1.1 ± 0.6 ; 0.6

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Table 4. Fish, Edible Portions

Collection: Semiannually
 ODCM-
 Required LLDs: Mn-54 = 0.13, Fe-59 = 0.26, Co-58 = 0.13, Co-60 = 0.13, Zn-65 = 0.26, Cs-134 = 0.1, Cs-137 = 0.1 pCi/g wet weight
 Other LLDs: Zr/Nb-95 = 0.20, Ba/La-140 = 0.30 pCi/g wet weight
 Units: 10^{-2} pCi/g wet weight

Sample Description and Concentration

L-36 Illinois River, Upstream of Discharge

Date Collected	05-01-02	05-01-02	10-02-02	10-02-02
Lab Code	LF-2881	LF-2882,3	LF-6431	LF-6432,3
Type	Channel Catfish	Smallmouth Buffalo	Smallmouth Buffalo	Channel Catfish
Mn-54	0.0 ± 0.7 ; 0.7	-0.4 ± 0.5 ; 0.5	-0.0 ± 0.8 ; 0.8	0.6 ± 0.7 ; 0.7
Fe-59	-0.4 ± 1.5 ; 1.5	0.6 ± 1.0 ; 1.0	-0.8 ± 2.2 ; 2.2	-0.3 ± 1.6 ; 1.6
Co-58	-0.4 ± 0.6 ; 0.6	0.0 ± 0.5 ; 0.5	-0.4 ± 0.8 ; 0.8	-0.6 ± 0.6 ; 0.6
Co-60	0.3 ± 0.7 ; 0.7	0.2 ± 0.6 ; 0.6	0.2 ± 0.8 ; 0.8	0.3 ± 0.8 ; 0.8
Zn-65	1.2 ± 1.8 ; 1.8	0.2 ± 1.0 ; 1.0	0.3 ± 2.0 ; 2.0	-0.3 ± 1.7 ; 1.7
Zr/Nb-95	-0.3 ± 0.6 ; 0.6	-0.1 ± 0.4 ; 0.4	-0.8 ± 0.8 ; 0.8	-0.6 ± 0.8 ; 0.8
Cs-134	0.3 ± 0.8 ; 0.8	0.2 ± 0.6 ; 0.6	0.4 ± 1.0 ; 1.0	-0.2 ± 0.7 ; 0.7
Cs-137	-0.2 ± 0.7 ; 0.7	-0.2 ± 0.4 ; 0.4	0.1 ± 0.8 ; 0.8	1.1 ± 0.8 ; 0.8
Ba/La-140	-0.2 ± 0.8 ; 0.8	-0.6 ± 0.5 ; 0.5	-0.8 ± 1.0 ; 1.0	-0.3 ± 0.7 ; 0.7

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Table 5. Bottom Sediments

Collection: Semiannually
 ODCM-
 Required LLDs: Cs-134 = 0.15, Cs-137 = 0.18 pCi/g dry weight
 Other LLDs: Mn-54 = 0.15; Fe-59 = 0.60; Co-58,60 = 0.10; Zn-65 = 0.60; Zr/Nb-95 = 0.20;
 Ba/La = 0.60 g dry weight
 Units: 10^{-2} pCi/g dry weight

Sample Description and Concentration

L-40 Illinios River Downstream

Date Collected	05-09-02	10-03-02
Lab Code	LBS-3120	LBS-6536
Mn-54	-0.8 ± 1.0 ; 1.0	0.5 ± 0.7 ; 0.7
Fe-59	1.2 ± 1.8 ; 1.8	-0.4 ± 1.7 ; 1.7
Co-58	-0.4 ± 0.8 ; 0.8	0.3 ± 0.7 ; 0.7
Co-60	0.8 ± 1.0 ; 1.0	1.0 ± 0.8 ; 0.8
Zn-65	0.3 ± 2.4 ; 2.4	1.0 ± 1.7 ; 1.7
Zr/Nb-95	-1.4 ± 1.0 ; 1.0	-0.5 ± 0.7 ; 0.7
Cs-134	0.9 ± 1.2 ; 1.2	0.6 ± 0.6 ; 0.6
Cs-137	4.4 ± 1.2 ; 1.4	3.9 ± 1.8 ; 1.9
Ba/La-140	-4.1 ± 0.9 ; 1.1	-1.1 ± 0.8 ; 0.8

L-41 Illinios River Downstream

Date Collected	05-09-02	07-11-02	10-03-02
Lab Code	LBS-3121 ^a	LBS-4606 ^b	LBS-6537
Mn-54	1.4 ± 2.5 ; 2.5	0.4 ± 1.6 ; 1.6	0.6 ± 0.8 ; 0.8
Fe-59	-2.1 ± 5.7 ; 5.8	-1.2 ± 3.8 ; 3.8	-0.3 ± 1.7 ; 1.7
Co-58	-0.2 ± 2.4 ; 2.4	0.2 ± 1.6 ; 1.6	-0.0 ± 0.7 ; 0.7
Co-60	10.5 ± 5.0 ; 5.2	2.2 ± 1.8 ; 1.8	0.7 ± 0.9 ; 0.9
Zn-65	-1.3 ± 5.7 ; 5.7	-2.9 ± 4.4 ; 4.4	1.6 ± 2.0 ; 2.1
Zr/Nb-95	-3.9 ± 2.7 ; 2.7	-1.5 ± 1.7 ; 1.7	-1.9 ± 0.8 ; 0.8
Cs-134	5.1 ± 3.1 ; 3.2	3.5 ± 2.0 ; 2.0	1.4 ± 1.0 ; 1.0
Cs-137	22.8 ± 6.6 ; 7.3	7.4 ± 2.8 ; 3.0	5.8 ± 1.7 ; 1.9
Ba/La-140	1.6 ± 2.2 ; 2.2	-1.7 ± 2.0 ; 2.0	-1.1 ± 0.8 ; 0.8

^a Sample recounted with the following results: Co-60 = 7.1 +/- 3.3 pCi/gdry; Cs-137 = 19.9 +/- 5.9 pCi/gdry.

^b Location resampled; results of resample used in compilation of quarterly summary table.

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Table 6.	Vegetation	
	Collection:	Annually
	ODCM-	
	Required LLDs:	I-131 = 0.06, Cs-134 = 0.06, Cs-137 = 0.08 pCi/g wet weight
	Other LLDs:	Mn-54 = 0.05; Fe-59 = 0.10; Co-58, Co-60, Zn-65 = 0.05; Zr/Nb-95 = 0.01; Ba/La-140 = 0.02 pCi/g wet weight
	Units:	10 ⁻² pCi/g wet weight

Sample Description and Concentration

L-Control (C) Eugene Clements

Date Collected	09-14-02	09-14-02
Lab Code	LVE-5982	LVE-5983
Type	Cabbage	Rutabagas
Mn-54	-0.1 ± 0.7 ; 0.7	0.0 ± 0.7 ; 0.7
Fe-59	0.5 ± 1.7 ; 1.7	-0.5 ± 2.1 ; 2.1
Co-58	0.4 ± 0.8 ; 0.8	-0.3 ± 0.9 ; 0.9
Co-60	-0.7 ± 1.0 ; 1.0	0.2 ± 1.3 ; 1.3
Zn-65	-1.4 ± 1.9 ; 1.9	-0.7 ± 2.4 ; 2.4
Zr/Nb-95	-0.4 ± 0.8 ; 0.8	0.3 ± 0.8 ; 0.8
I-131	0.6 ± 0.8 ; 0.8	-0.4 ± 0.7 ; 0.7
Cs-134	0.4 ± 0.9 ; 0.9	-0.3 ± 0.9 ; 0.9
Cs-137	-0.2 ± 1.0 ; 1.0	0.6 ± 1.0 ; 1.0
Ba/La-140	0.2 ± 0.6 ; 0.6	-1.0 ± 0.8 ; 0.9

L-Quad 1 Diane Partridge

Date Collected	09-14-02	09-14-02
Lab Code	LVE-5973	LVE-5974
Type	Cabbage	Onions
Mn-54	-0.1 ± 0.7 ; 0.7	0.1 ± 0.7 ; 0.7
Fe-59	0.6 ± 1.4 ; 1.4	-2.7 ± 1.7 ; 1.7
Co-58	0.5 ± 0.6 ; 0.6	-0.7 ± 0.7 ; 0.7
Co-60	0.1 ± 0.8 ; 0.8	-0.1 ± 1.0 ; 1.0
Zn-65	0.2 ± 1.7 ; 1.7	-1.0 ± 1.7 ; 1.7
Zr/Nb-95	0.0 ± 0.7 ; 0.7	0.4 ± 0.7 ; 0.7
I-131	-0.1 ± 0.7 ; 0.7	-0.5 ± 0.5 ; 0.5
Cs-134	0.4 ± 0.8 ; 0.8	-0.2 ± 0.9 ; 0.9
Cs-137	0.1 ± 0.7 ; 0.7	0.1 ± 0.8 ; 0.8
Ba/La-140	-0.3 ± 0.7 ; 0.7	-2.4 ± 1.2 ; 1.2

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Table 6. Vegetation
 Collection: Annually
 ODCM-
 Required LLDs: I-131 = 0.06, Cs-134 = 0.06, Cs-137 = 0.08 pCi/g wet weight
 Other LLDs: Mn-54 = 0.05; Fe-59 = 0.10; Co-58, Co-60, Zn-65 = 0.05; Zr/Nb-95 = 0.01;
 Ba/La-140 = 0.02 pCi/g wet weight
 Units: 10^{-2} pCi/g wet weight

Sample Description and Concentration

L-Quad 2 Mike & Gina Welbourne

Date Collected	09-14-02	09-14-02
Lab Code	LVE-5975	LVE-5976
Type	Cabbage	Beets
Mn-54	0.3 ± 0.5 ; 0.5	-0.1 ± 0.6 ; 0.6
Fe-59	0.8 ± 0.9 ; 0.9	1.4 ± 1.2 ; 1.3
Co-58	0.1 ± 0.5 ; 0.5	-0.1 ± 0.6 ; 0.6
Co-60	0.1 ± 0.5 ; 0.5	-0.8 ± 0.7 ; 0.7
Zn-65	0.2 ± 1.3 ; 1.3	-0.8 ± 1.1 ; 1.1
Zr/Nb-95	0.3 ± 0.4 ; 0.4	-0.5 ± 0.6 ; 0.6
I-131	0.5 ± 0.5 ; 0.5	0.3 ± 0.5 ; 0.5
Cs-134	0.3 ± 0.5 ; 0.5	0.8 ± 0.7 ; 0.7
Cs-137	0.1 ± 0.6 ; 0.6	0.7 ± 0.6 ; 0.6
Ba/La-140	0.6 ± 0.4 ; 0.4	0.4 ± 0.5 ; 0.5

L-Quad 3 Michael Olson

Date Collected	09-14-02	09-14-02
Lab Code	LVE-5977,8	LVE-5979
Type	Swiss Chard	Beets
Mn-54	-0.3 ± 0.4 ; 0.4	0.0 ± 0.4 ; 0.4
Fe-59	0.1 ± 1.0 ; 1.0	-0.4 ± 1.1 ; 1.1
Co-58	-0.2 ± 0.4 ; 0.4	-0.1 ± 0.4 ; 0.4
Co-60	-0.1 ± 0.4 ; 0.4	0.8 ± 0.5 ; 0.5
Zn-65	0.7 ± 1.3 ; 1.3	-0.5 ± 1.1 ; 1.1
Zr/Nb-95	-0.4 ± 0.4 ; 0.4	0.2 ± 0.4 ; 0.4
I-131	-0.3 ± 0.5 ; 0.5	-0.2 ± 0.5 ; 0.5
Cs-134	0.4 ± 0.5 ; 0.5	0.4 ± 0.5 ; 0.5
Cs-137	0.4 ± 0.5 ; 0.5	-0.0 ± 0.5 ; 0.5
Ba/La-140	0.1 ± 0.4 ; 0.4	-0.0 ± 0.4 ; 0.4

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Table 6. Vegetation
 Collection: Annually
 ODCM-
 Required LLDs: I-131 = 0.06, Cs-134 = 0.06, Cs-137 = 0.08 pCi/g wet weight
 Other LLDs: Mn-54 = 0.05; Fe-59 = 0.10; Co-58, Co-60, Zn-65 = 0.05; Zr/Nb-95 = 0.01;
 Ba/La-140 = 0.02 pCi/g wet weight
 Units: 10^{-2} pCi/g wet weight

Sample Description and Concentration

L-Quad 4 Robert Eisers

Date Collected	09-14-02	09-14-02
Lab Code	LVE-5980	LVE-5981
Type	Beets	Beet Greens
Mn-54	-0.4 ± 0.6 ; 0.6	0.4 ± 0.7 ; 0.7
Fe-59	0.2 ± 1.3 ; 1.3	-0.5 ± 1.6 ; 1.6
Co-58	0.8 ± 0.5 ; 0.5	-0.2 ± 0.6 ; 0.6
Co-60	-0.2 ± 0.7 ; 0.7	0.9 ± 0.9 ; 0.9
Zn-65	1.7 ± 1.4 ; 1.4	-1.1 ± 2.1 ; 2.1
Zr/Nb-95	0.0 ± 0.6 ; 0.6	-0.6 ± 0.7 ; 0.7
I-131	-0.1 ± 0.5 ; 0.5	-0.6 ± 0.6 ; 0.6
Cs-134	-0.2 ± 0.7 ; 0.7	0.1 ± 0.8 ; 0.8
Cs-137	0.0 ± 0.6 ; 0.6	-0.1 ± 0.8 ; 0.8
Ba/La-140	0.8 ± 0.5 ; 0.5	-0.3 ± 0.5 ; 0.5

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Table 7. Surface Water
 Collection: Monthly composites of weekly collections
 ODCM- Gross Beta = 4, Mn-54 = 15, Fe-59 = 30, Co-58 = 15, Co-60 = 15, Zn-65 = 30,
 Required LLDs: Zr/Nb-95 = 15, Cs-134 = 15, Cs-137 = 18, Ba/La-140 = 15 pCi/L
 Units: pCi/L

Sample Description and Concentration

L-21 (C) Illinois River at Seneca

2002 Collection Period	January	February	March
Lab Code	LSW-790	LSW-1384	LSW-2362
Gross Beta	4.8 ± 1.1 ; 1.3	4.2 ± 1.1 ; 1.3	3.8 ± 1.5 ; 1.6
Mn-54	-3.0 ± 2.6 ; 2.6	-3.6 ± 3.4 ; 3.4	0.2 ± 1.3 ; 1.3
Fe-59	3.6 ± 4.5 ; 4.5	-8.8 ± 6.4 ; 6.5	-0.7 ± 2.9 ; 2.9
Co-58	0.0 ± 2.4 ; 2.4	0.3 ± 2.8 ; 2.8	-1.0 ± 1.4 ; 1.4
Co-60	0.4 ± 3.1 ; 3.1	1.5 ± 3.6 ; 3.6	0.1 ± 1.5 ; 1.5
Zn-65	-1.5 ± 5.0 ; 5.0	3.6 ± 6.6 ; 6.6	-2.9 ± 3.2 ; 3.3
Zr/Nb-95	-3.5 ± 2.7 ; 2.7	-0.8 ± 2.9 ; 2.9	2.3 ± 3.2 ; 3.2
Cs-134	-1.1 ± 2.7 ; 2.7	2.0 ± 3.7 ; 3.7	0.1 ± 1.6 ; 1.6
Cs-137	1.7 ± 2.7 ; 2.7	-2.0 ± 3.0 ; 3.0	-0.3 ± 1.5 ; 1.5
Ba/La-140	-8.4 ± 3.0 ; 3.3	-4.4 ± 3.7 ; 3.8	-4.3 ± 1.8 ; 1.9
2002 Collection Period	April	May	June
Lab Code	LSW-2756,7	LSW-3754	LSW-4288
Gross Beta	4.0 ± 0.7 ; 0.8	4.2 ± 1.0 ; 1.2	4.5 ± 1.0 ; 1.2
Mn-54	1.2 ± 1.1 ; 1.1	0.5 ± 0.8 ; 0.8	1.0 ± 1.6 ; 1.6
Fe-59	0.5 ± 2.1 ; 2.1	-1.7 ± 1.6 ; 1.7	-3.5 ± 4.3 ; 4.3
Co-58	-1.2 ± 1.2 ; 1.2	0.3 ± 0.8 ; 0.8	2.8 ± 2.0 ; 2.0
Co-60	-0.3 ± 1.5 ; 1.5	0.4 ± 0.9 ; 0.9	-1.5 ± 2.7 ; 2.7
Zn-65	-0.2 ± 2.4 ; 2.4	-0.3 ± 2.0 ; 2.0	-1.0 ± 3.1 ; 3.1
Zr/Nb-95	-1.7 ± 1.2 ; 1.2	-0.8 ± 0.9 ; 0.9	-0.3 ± 2.0 ; 2.0
Cs-134	0.0 ± 1.3 ; 1.3	0.1 ± 1.0 ; 1.0	1.1 ± 2.0 ; 2.0
Cs-137	-0.2 ± 1.3 ; 1.3	0.3 ± 1.0 ; 1.0	-0.2 ± 2.2 ; 2.2
Ba/La-140	-4.4 ± 1.6 ; 1.7	-4.0 ± 0.9 ; 1.1	1.7 ± 2.9 ; 3.0

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Table 7. Surface Water
 Collection: Monthly composites of weekly collections
 ODCM- Gross Beta = 4, Mn-54 = 15, Fe-59 = 30, Co-58 = 15, Co-60 = 15, Zn-65 = 30,
 Required LLDs: Zr/Nb-95 = 15, Cs-134 = 15, Cs-137 = 18, Ba/La-140 = 15 pCi/L
 Units: pCi/L

Sample Description and Concentration				
<u>L-21 (C) Illinois River at Seneca</u>				
2002 Collection Period	July	August	September	
Lab Code	LSW-5460	LSW-5994	LSW-6694	
Gross Beta	5.6 ± 1.4 ; 1.7	6.1 ± 1.3 ; 1.6	5.3 ± 1.5 ; 1.7	
Mn-54	-1.1 ± 1.6 ; 1.6	-0.1 ± 1.8 ; 1.8	-1.5 ± 2.5 ; 2.5	
Fe-59	-1.4 ± 3.6 ; 3.6	-1.2 ± 3.8 ; 3.8	-3.6 ± 6.6 ; 6.6	
Co-58	1.5 ± 1.6 ; 1.7	-0.4 ± 2.0 ; 2.0	-0.4 ± 3.4 ; 3.4	
Co-60	-0.8 ± 1.8 ; 1.8	0.2 ± 2.0 ; 2.0	-1.7 ± 3.9 ; 3.9	
Zn-65	-1.4 ± 4.0 ; 4.0	-4.5 ± 4.2 ; 4.3	0.1 ± 5.8 ; 5.8	
Zr/Nb-95	3.8 ± 3.4 ; 3.4	2.3 ± 3.8 ; 3.9	1.8 ± 2.4 ; 2.5	
Cs-134	1.2 ± 1.6 ; 1.6	-0.8 ± 1.9 ; 1.9	-0.9 ± 3.0 ; 3.0	
Cs-137	1.8 ± 2.2 ; 2.2	0.6 ± 2.1 ; 2.1	1.0 ± 2.5 ; 2.5	
Ba/La-140	5.2 ± 1.8 ; 2.0	-1.6 ± 2.2 ; 2.2	0.8 ± 2.3 ; 2.3	
2002 Collection Period	October	November	December	
Lab Code	LSW-7639	LSW-8273	LSW-8598	
Gross Beta	5.6 ± 1.3 ; 1.6	6.7 ± 1.4 ; 1.7	8.4 ± 1.5 ; 2.0	
Mn-54	-1.8 ± 2.4 ; 2.4	-0.5 ± 1.7 ; 1.7	0.4 ± 1.5 ; 1.5	
Fe-59	-6.6 ± 4.4 ; 4.5	1.0 ± 3.4 ; 3.4	-2.3 ± 2.8 ; 2.8	
Co-58	1.1 ± 2.1 ; 2.1	-0.8 ± 1.5 ; 1.5	-1.1 ± 1.6 ; 1.6	
Co-60	-0.3 ± 2.1 ; 2.1	1.0 ± 1.6 ; 1.6	-1.2 ± 2.0 ; 2.0	
Zn-65	-5.2 ± 6.2 ; 6.2	0.7 ± 4.1 ; 4.1	-4.3 ± 4.6 ; 4.6	
Zr/Nb-95	-6.1 ± 2.8 ; 3.0	2.2 ± 1.9 ; 2.0	1.7 ± 1.9 ; 1.9	
Cs-134	-0.4 ± 2.4 ; 2.4	0.3 ± 2.3 ; 2.3	-1.8 ± 2.0 ; 2.0	
Cs-137	-0.2 ± 2.3 ; 2.3	-0.2 ± 1.9 ; 1.9	0.2 ± 1.9 ; 1.9	
Ba/La-140	-1.0 ± 3.2 ; 3.2	-7.4 ± 2.7 ; 2.9	-1.7 ± 1.8 ; 1.8	

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Table 7. Surface Water
 Collection: Monthly composites of weekly collections
 ODCM- Gross Beta = 4, Mn-54 = 15, Fe-59 = 30, Co-58 = 15, Co-60 = 15, Zn-65 = 30,
 Required LLDs: Zr/Nb-95 = 15, Cs-134 = 15, Cs-137 = 18, Ba/La-140 = 15 pCi/L
 Units: pCi/L

Sample Description and Concentration			
<u>L-40 Illinois River Downstream</u>			
2002			
Collection Period	January	February	March
Lab Code	LSW-791	LSW-1385	LSW-2363
Gross Beta	4.2 ± 1.0 ; 1.2	5.3 ± 1.2 ; 1.5	4.4 ± 1.7 ; 1.8
Mn-54	-0.7 ± 1.6 ; 1.6	0.5 ± 2.9 ; 2.9	0.7 ± 1.4 ; 1.4
Fe-59	-0.6 ± 2.6 ; 2.6	-0.8 ± 6.2 ; 6.2	-1.4 ± 3.0 ; 3.0
Co-58	-1.4 ± 1.8 ; 1.8	0.5 ± 3.0 ; 3.0	-1.2 ± 1.4 ; 1.4
Co-60	0.1 ± 1.9 ; 1.9	-3.6 ± 3.7 ; 3.7	-0.1 ± 1.6 ; 1.6
Zn-65	0.7 ± 3.0 ; 3.0	3.3 ± 5.6 ; 5.6	-1.7 ± 2.8 ; 2.8
Zr/Nb-95	-0.7 ± 1.9 ; 1.9	0.5 ± 2.8 ; 2.8	1.5 ± 1.4 ; 1.4
Cs-134	0.1 ± 1.9 ; 1.9	0.2 ± 3.3 ; 3.3	0.6 ± 1.5 ; 1.5
Cs-137	-0.1 ± 2.0 ; 2.0	2.2 ± 3.1 ; 3.1	-0.5 ± 1.8 ; 1.8
Ba/La-140	-1.8 ± 2.1 ; 2.1	2.1 ± 3.6 ; 3.6	-5.9 ± 1.9 ; 2.1
2002			
Collection Period	April	May	June
Lab Code	LSW-2758	LSW-3755	LSW-4289
Gross Beta	5.8 ± 1.8 ; 2.0	4.2 ± 1.1 ; 1.2	4.4 ± 1.2 ; 1.4
Mn-54	-1.4 ± 1.9 ; 1.9	0.0 ± 0.8 ; 0.8	-0.7 ± 1.5 ; 1.5
Fe-59	-2.7 ± 3.4 ; 3.4	-0.9 ± 1.4 ; 1.4	-4.4 ± 3.1 ; 3.2
Co-58	0.5 ± 1.7 ; 1.7	0.2 ± 0.8 ; 0.8	-0.4 ± 1.6 ; 1.6
Co-60	-0.8 ± 2.4 ; 2.4	0.6 ± 0.9 ; 0.9	1.8 ± 1.8 ; 1.8
Zn-65	0.3 ± 3.4 ; 3.4	0.0 ± 1.9 ; 1.9	-3.4 ± 3.9 ; 4.0
Zr/Nb-95	-0.1 ± 1.9 ; 1.9	0.1 ± 0.8 ; 0.8	-0.6 ± 1.8 ; 1.8
Cs-134	-0.3 ± 2.1 ; 2.1	0.8 ± 0.9 ; 0.9	1.0 ± 1.7 ; 1.7
Cs-137	1.7 ± 1.9 ; 1.9	1.0 ± 0.9 ; 0.9	-0.6 ± 1.8 ; 1.8
Ba/La-140	-9.2 ± 2.5 ; 2.9	-1.6 ± 1.0 ; 1.0	1.8 ± 2.1 ; 2.1

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Table 7. Surface Water
 Collection: Monthly composites of weekly collections
 ODCM- Gross Beta = 4, Mn-54 = 15, Fe-59 = 30, Co-58 = 15, Co-60 = 15, Zn-65 = 30,
 Required LLDs: Zr/Nb-95 = 15, Cs-134 = 15, Cs-137 = 18, Ba/La-140 = 15 pCi/L
 Units: pCi/L

Sample Description and Concentration

L-40 Illinois River Downstream

2002 Collection Period	July	August	September
Lab Code	LSW-5461	LSW-5995	LSW-6695
Gross Beta	7.3 ± 1.7 ; 2.0	5.8 ± 1.2 ; 1.5	5.2 ± 1.5 ; 1.7
Mn-54	0.0 ± 1.6 ; 1.6	-0.4 ± 2.9 ; 2.9	0.8 ± 1.8 ; 1.8
Fe-59	-5.0 ± 3.2 ; 3.3	-4.8 ± 5.7 ; 5.7	0.5 ± 3.3 ; 3.3
Co-58	0.5 ± 1.4 ; 1.4	1.5 ± 2.9 ; 2.9	0.1 ± 1.6 ; 1.6
Co-60	0.6 ± 1.6 ; 1.6	-4.1 ± 4.1 ; 4.1	0.8 ± 1.5 ; 1.5
Zn-65	-1.5 ± 3.4 ; 3.4	0.7 ± 5.1 ; 5.1	2.3 ± 4.6 ; 4.7
Zr/Nb-95	-1.4 ± 3.8 ; 3.8	0.3 ± 2.7 ; 2.7	-1.2 ± 2.4 ; 2.4
Cs-134	-0.8 ± 1.9 ; 1.9	1.9 ± 3.2 ; 3.2	0.0 ± 2.0 ; 2.0
Cs-137	0.6 ± 1.7 ; 1.7	-0.3 ± 3.4 ; 3.4	-1.1 ± 2.1 ; 2.1
Ba/La-140	-6.8 ± 1.5 ; 1.8	-4.1 ± 2.9 ; 3.0	-3.2 ± 2.6 ; 2.6
2002 Collection Period	October	November	December
Lab Code	LSW-7640	LSW-8274,5	LSW-8599
Gross Beta	5.3 ± 1.3 ; 1.5	7.4 ± 0.9 ; 1.2	6.8 ± 1.3 ; 1.7
Mn-54	3.6 ± 3.7 ; 3.7	1.4 ± 1.7 ; 1.7	-0.4 ± 1.8 ; 1.8
Fe-59	-4.0 ± 6.3 ; 6.3	-0.6 ± 2.9 ; 2.9	-1.0 ± 3.0 ; 3.0
Co-58	-0.9 ± 3.4 ; 3.4	-0.6 ± 1.7 ; 1.7	-1.5 ± 1.6 ; 1.7
Co-60	-0.2 ± 3.4 ; 3.4	0.5 ± 2.1 ; 2.1	1.1 ± 2.2 ; 2.2
Zn-65	-2.4 ± 7.8 ; 7.8	-2.4 ± 3.6 ; 3.6	-2.4 ± 3.8 ; 3.8
Zr/Nb-95	-3.3 ± 3.4 ; 3.5	-1.8 ± 1.6 ; 1.7	-0.6 ± 1.7 ; 1.7
Cs-134	0.7 ± 3.6 ; 3.6	-0.8 ± 1.9 ; 1.9	1.4 ± 1.7 ; 1.7
Cs-137	1.3 ± 3.6 ; 3.6	-0.8 ± 1.9 ; 1.9	-1.2 ± 2.1 ; 2.1
Ba/La-140	-4.7 ± 3.6 ; 3.6	6.9 ± 2.1 ; 2.3	-1.2 ± 2.6 ; 2.6

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

2002 Collection Period	<u>Sample Description and Concentration</u>	Tritium
	<u>L-21 (C) Illinois River at Seneca</u>	
1st Quarter	LSW - 2364	94 ± 72 ; 73
2nd Quarter	LSW - 4290	162 ± 73 ; 76
3rd Quarter	LSW - 6696	350 ± 104 ; 115
4th Quarter	LSW - 8603	702 ± 112 ; 147
	<u>L-40 Illinois River Downstream</u>	
1st Quarter	LSW - 2365	286 ± 81 ; 90
2nd Quarter	LSW - 4291	108 ± 70 ; 72
3rd Quarter	LSW - 6697,8	448 ± 77 ; 88
4th Quarter	LSW - 8604	827 ± 117 ; 162

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Table 8. Well Water
 Collection: Quarterly
 ODCM- H-3 = 200, Mn-54 = 15, Fe-59 = 30, Co-58 = 15, Co-60 = 15, Zn-65 = 30,
 Required LLDs: Zr/Nb-95 = 15, Cs-134 = 15, Cs-137 = 18, Ba/La-140 = 15 pCi/L
 Units: pCi/L

Sample Description and Concentration

L-27 LSCS Onsite Well at Station

Date Collected	01-10-02	04-11-02	07-11-02	10-03-02
Lab Code	LWW-209	LWW-2256	LWW-4604	LWW-6541
H-3	-130 ± 57; 60	-25 ± 65; 65	21 ± 67; 67	-133 ± 65; 67
Mn-54	2.4 ± 2.7; 2.7	-0.2 ± 1.4; 1.4	-0.6 ± 0.9; 0.9	0.5 ± 3.7; 3.7
Fe-59	-5.1 ± 5.2; 5.3	-2.4 ± 2.4; 2.4	-0.3 ± 1.8; 1.8	-6.4 ± 8.5; 8.6
Co-58	-2.7 ± 2.9; 2.9	-0.9 ± 1.3; 1.3	-0.3 ± 0.9; 0.9	-0.7 ± 4.2; 4.2
Co-60	1.7 ± 2.7; 2.7	-1.7 ± 1.5; 1.5	-0.2 ± 1.1; 1.1	-7.0 ± 7.1; 7.2
Zn-65	0.1 ± 5.0; 5.0	-4.2 ± 2.3; 2.4	1.5 ± 1.8; 1.8	-3.1 ± 8.7; 8.7
Zr/Nb-95	-1.7 ± 2.7; 2.7	1.8 ± 1.5; 1.5	-5.3 ± 2.1; 2.2	4.0 ± 5.0; 5.0
Cs-134	-3.0 ± 3.0; 3.0	0.5 ± 1.5; 1.5	0.7 ± 1.0; 1.0	-2.5 ± 4.6; 4.6
Cs-137	0.6 ± 2.8; 2.8	-0.8 ± 1.3; 1.3	0.8 ± 1.1; 1.1	1.7 ± 4.3; 4.3
Ba/La-140	0.9 ± 2.7; 2.7	-2.7 ± 1.4; 1.4	-3.7 ± 1.3; 1.4	1.3 ± 4.0; 4.0

L-28 Marseilles Well

Date Collected	01-10-02	04-11-02	07-11-02	10-03-02
Lab Code	LWW-210	LWW-2257	LWW-4605	LWW-6542
H-3	-100 ± 59; 61	-14 ± 66; 66	-30 ± 64; 64	-131 ± 65; 67
Mn-54	-2.1 ± 2.1; 2.1	0.3 ± 1.4; 1.4	0.4 ± 0.7; 0.7	0.6 ± 2.9; 2.9
Fe-59	0.3 ± 4.7; 4.7	-2.7 ± 3.3; 3.3	-1.7 ± 1.5; 1.5	0.3 ± 6.0; 6.0
Co-58	0.2 ± 2.9; 2.9	-1.4 ± 1.4; 1.4	-0.0 ± 0.7; 0.7	1.9 ± 3.5; 3.5
Co-60	0.5 ± 2.6; 2.6	1.6 ± 1.4; 1.4	0.1 ± 0.7; 0.7	1.5 ± 3.3; 3.3
Zn-65	-3.2 ± 4.0; 4.0	-3.7 ± 4.2; 4.3	-1.4 ± 1.5; 1.5	-5.9 ± 6.8; 6.9
Zr/Nb-95	-3.2 ± 2.9; 3.0	-0.3 ± 1.6; 1.6	0.1 ± 0.8; 0.8	-0.1 ± 3.1; 3.1
Cs-134	0.6 ± 3.6; 3.6	-0.2 ± 1.8; 1.8	-0.7 ± 0.8; 0.8	0.6 ± 3.9; 3.9
Cs-137	0.4 ± 3.2; 3.2	1.0 ± 1.8; 1.8	-0.2 ± 0.8; 0.8	1.9 ± 3.3; 3.3
Ba/La-140	3.3 ± 2.1; 2.1	-1.3 ± 1.9; 1.9	-2.5 ± 0.8; 0.8	-2.8 ± 4.7; 4.7

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MILCH ANIMALS, NEAREST LIVESTOCK, AND
NEAREST RESIDENCES CENSUS

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MILCH ANIMALS CENSUS, 2002

L-42

Vince Biros Farm

12.6 miles, Sector E

25% pasture

25% ground grain

50% green chop

Census conducted by A. Lewis on August 26, 2002

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NEAREST LIVESTOCK CENSUS, 2002

Nearest livestock of the LaSalle Station within a 6.2 mile radius.

<u>Sector</u>	<u>Direction</u>	<u>Distance</u>
A	N	4.0 miles
B	NNE	1.7 miles
C	NE	3.5 miles
D	ENE	None
E	E	None
F	ESE	None
G	SE	4.7 miles
H	SSE	4.7 miles
J	S	4.7 miles
K	SSW	None
L	SW	5.8 miles
M	WSW	None
N	W	3.0 miles
P	WNW	3.0 miles
Q	NW	4.0 miles
R	NNW	4.6 miles

Census conducted by A. Lewis on August 26, 2002

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NEAREST RESIDENCE CENSUS, 2002

Nearest resident of the LaSalle Station within a 6.2 mile radius.

<u>Sector</u>	<u>Direction</u>	<u>Distance</u>
A	N	3.9 miles
B	NNE	1.6 miles
C	NE	2.1 miles
D	ENE	3.3 miles
E	E	3.2 miles
F	ESE	1.4 miles
G	SE	1.7 miles
H	SSE	1.8 miles
J	S	1.5 miles
K	SSW	0.7 miles
L	SW	1.0 miles
M	WSW	1.5 miles
N	W	0.8 miles
P	WNW	0.9 miles
Q	NW	1.8 miles
R	NNW	1.7 miles

Census conducted by A. Lewis on August 26, 2002

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4.0 TLD DATA*

*TLD Data provided by Exelon Nuclear.

Exelon Nuclear
Environmental Site Report for LaSalle

Gamma Radiation Measured in mR by TLDs

Site	Description	Quarter 1	Quarter 2	Quarter 3	Quarter 4
		2002	2002	2002	2002
I. INDICATOR LOCATIONS					
a. Air Samplers					
L-01-1	NEARSITE NO. 1	27.0	23.0	20.0	26.0
L-01-2	NEARSITE NO. 1	24.0	23.0	22.0	25.0
L-03-1	ONSITE NO. 3	28.0	24.0	25.0	26.0
L-03-2	ONSITE NO. 3	28.0	22.0	21.0	24.0
L-04-1	RTE. 170	28.0	21.0	21.0	23.0
L-04-2	RTE. 170	24.0	23.0	19.0	23.0
L-05-1	ONSITE NO. 5	26.0	21.0	19.0	26.0
L-05-2	ONSITE NO. 5	26.0	22.0	18.0	24.0
L-06-1	NEARSITE NO. 6	27.0	23.0	33.0	25.0
L-06-2	NEARSITE NO. 6	26.0	23.0	19.0	25.0
L-07-1	SENECA	26.0	21.0	22.0	22.0
L-07-2	SENECA	26.0	23.0	22.0	24.0
L-08-1	MARSEILLES	25.0	24.0	18.0	24.0
L-08-2	MARSEILLES	26.0	24.0	19.0	24.0
L-11-1	RANSOM	25.0	19.0	15.0	24.0
L-11-2	RANSOM	24.0	19.0	18.0	21.0
	Air Sampler Mean ± S. D.	26.0 ±1.4	22.2 ±1.6	20.7 ±4.0	24.1 ±1.4
	Annual Air Sampler Mean ± S.D.				23.3 ±3.1
b. Inner Ring (100 Series)					
L-101-1		24.0	23.0	21.0	25.0
L-101-2		30.0	23.0	21.0	24.0
L-102-1		25.0	24.0	23.0	28.0
L-102-2		25.0	27.0	23.0	28.0
L-103-1		27.0	22.0	24.0	27.0
L-103-2		24.0	25.0	24.0	26.0
L-104-1		27.0	22.0	24.0	24.0
L-104-2		24.0	22.0	24.0	24.0
L-105-1		27.0	23.0	22.0	26.0
L-105-2		27.0	24.0	26.0	27.0
L-106-1		23.0	22.0	23.0	24.0
L-106-2		24.0	23.0	23.0	23.0
L-107-1		24.0	23.0	24.0	25.0
L-107-2		22.0	26.0	23.0	26.0
L-108-1		23.0	25.0	21.0	25.0
L-108-2		21.0	19.0	20.0	20.0
L-109-1		23.0	23.0	23.0	24.0
L-109-2		25.0	24.0	24.0	25.0
L-110-1		28.0	24.0	24.0	26.0
L-110-2		24.0	27.0	24.0	25.0
L-111B-1		28.0	24.0	24.0	25.0
L-111B-2		25.0	26.0	23.0	24.0

Exelon Nuclear
Environmental Site Report for LaSalle

Gamma Radiation Measured in mR by TLDs

Site	Description	Gamma Radiation Measured in mR by TLDs			
		Quarter 1 2002	Quarter 2 2002	Quarter 3 2002	Quarter 4 2002
b. Inner Ring (100 Series)					
L-112-1		27.0	22.0	20.0	28.0
L-112-2		25.0	23.0	22.0	26.0
L-113A-1		29.0	25.0	24.0	26.0
L-113A-2		24.0	23.0	25.0	25.0
L-114-1		25.0	24.0	24.0	26.0
L-114-2		27.0	24.0	25.0	25.0
L-115-1		22.0	22.0	22.0	23.0
L-115-2		25.0	20.0	22.0	24.0
L-116-1		23.0	21.0	19.0	24.0
L-116-2		22.0	21.0	19.0	23.0
	Inner Ring Mean ± S.D.	25.0 ±2.2	23.3 ±1.8	22.8 ±1.7	25.0 ±1.7
	Annual Inner Ring Mean ± S.D.				24.0 ±2.1
c. Outer Ring (200 Series)					
L-201-3		20.0	18.0	20.0	20.0
L-201-4		29.0	22.0	20.0	26.0
L-202-3		24.0	20.0	24.0	23.0
L-202-4		21.0	20.0	21.0	22.0
L-203-1		23.0	21.0	20.0	24.0
L-203-2		25.0	24.0	19.0	25.0
L-204-1		26.0	24.0	23.0	29.0
L-204-2		23.0	24.0	20.0	26.0
L-205-1		27.0	23.0	25.0	25.0
L-205-2		23.0	23.0	24.0	25.0
L-205-3		30.0	24.0	22.0	27.0
L-205-4		24.0	23.0	24.0	24.0
L-206-1		23.0	23.0	24.0	26.0
L-206-2		23.0	24.0	21.0	26.0
L-207-1		23.0	22.0	20.0	26.0
L-207-2		27.0	22.0	23.0	24.0
L-208-1		27.0	23.0	24.0	25.0
L-208-2		25.0	24.0	22.0	26.0
L-209-1		30.0	24.0	24.0	25.0
L-209-2		26.0	31.0	23.0	24.0
L-210-1		28.0	25.0	26.0	26.0
L-210-2		31.0	25.0	25.0	26.0
L-211-1		23.0	24.0	21.0	25.0
L-211-2		25.0	24.0	22.0	25.0
L-212-1		24.0	23.0	22.0	26.0
L-212-2		24.0	26.0	23.0	25.0
L-213-3		23.0	23.0	22.0	25.0
L-213-4		22.0	26.0	24.0	23.0
L-214-3		23.0	24.0	24.0	23.0
L-214-4		23.0	23.0	22.0	24.0

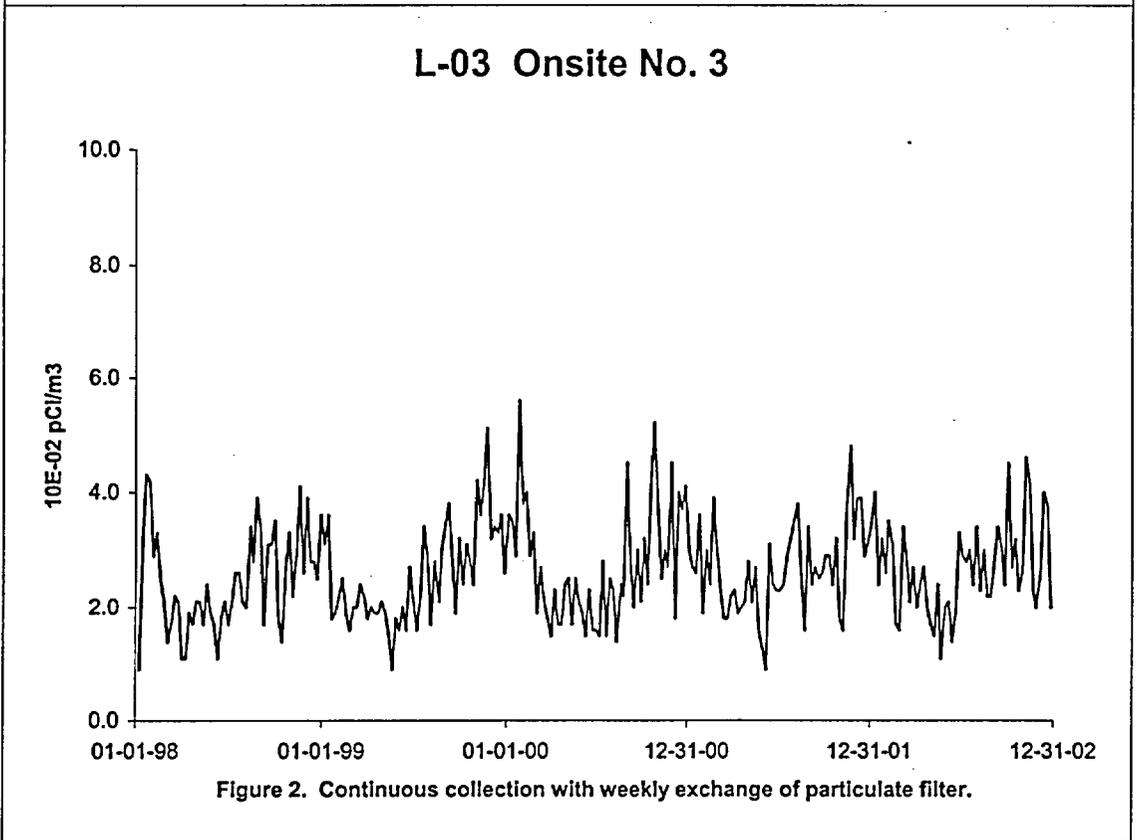
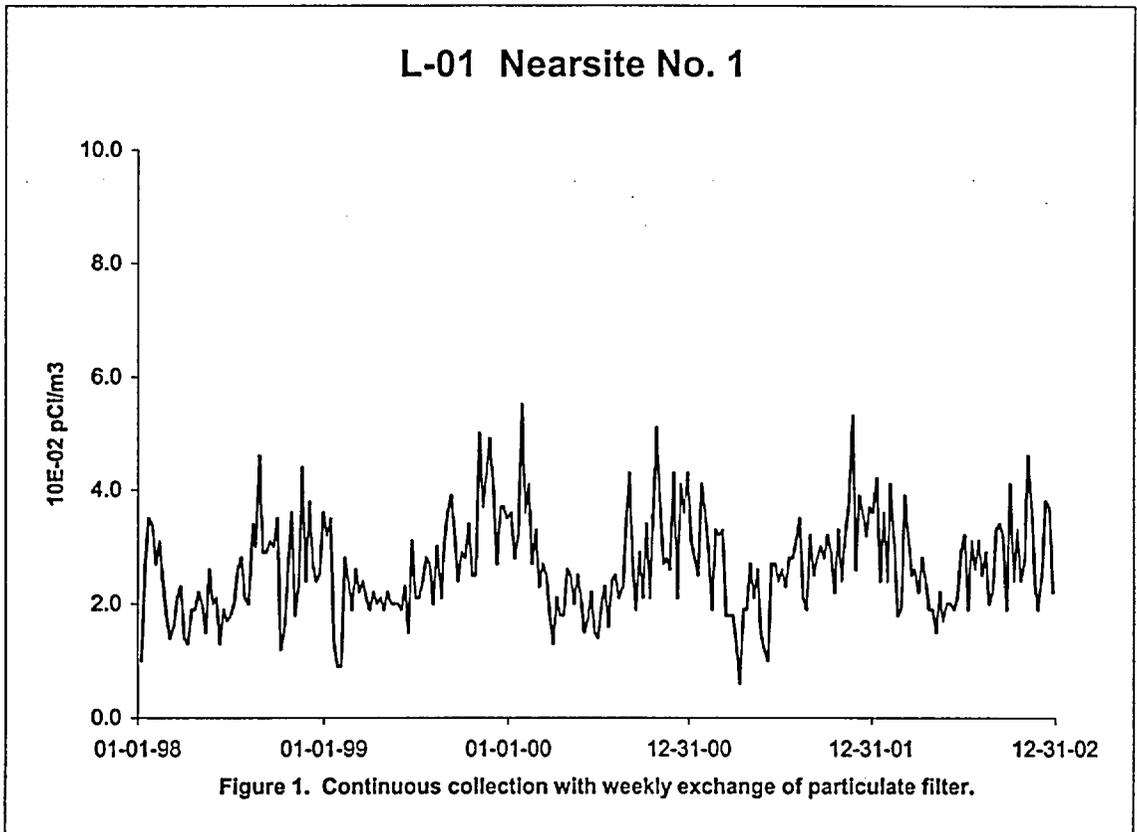
Exelon Nuclear
Environmental Site Report for LaSalle

Gamma Radiation Measured in mR by TLDs					
Site	Description	Quarter 1 2002	Quarter 2 2002	Quarter 3 2002	Quarter 4 2002
Outer Ring (200 Series)					
L-215-3		26.0	24.0	24.0	26.0
L-215-4		23.0	24.0	21.0	25.0
L-216-3		23.0	24.0	24.0	24.0
L-216-4		26.0	23.0	23.0	24.0
	Outer Ring Mean ± S.D.	24.8 ±2.6	23.4 ±2.1	22.5 ±1.8	24.9 ±1.6
	Annual Outer Ring Mean ± S.D.				23.9 ±2.3
	INDICATOR LOCATION MEAN ± S.D.	25.1 ±2.3	23.1 ±2.0	22.3 ±2.5	24.8 ±1.6
	Annual INDICATOR MEAN ± S.D.				23.8 ±2.4
 II. CONTROL LOCATIONS					
L-10-1	STREATOR	23.0	22.0	19.0	21.0
L-10-2	STREATOR	24.0	19.0	20.0	22.0
	CONTROL LOCATION MEAN ± S.D.	23.5 ±0.7	20.5 ±2.1	19.5 ±0.7	21.5 ±0.7
	Annual CONTROL LOCATION MEAN ± S.D.				21.3 ±0.7

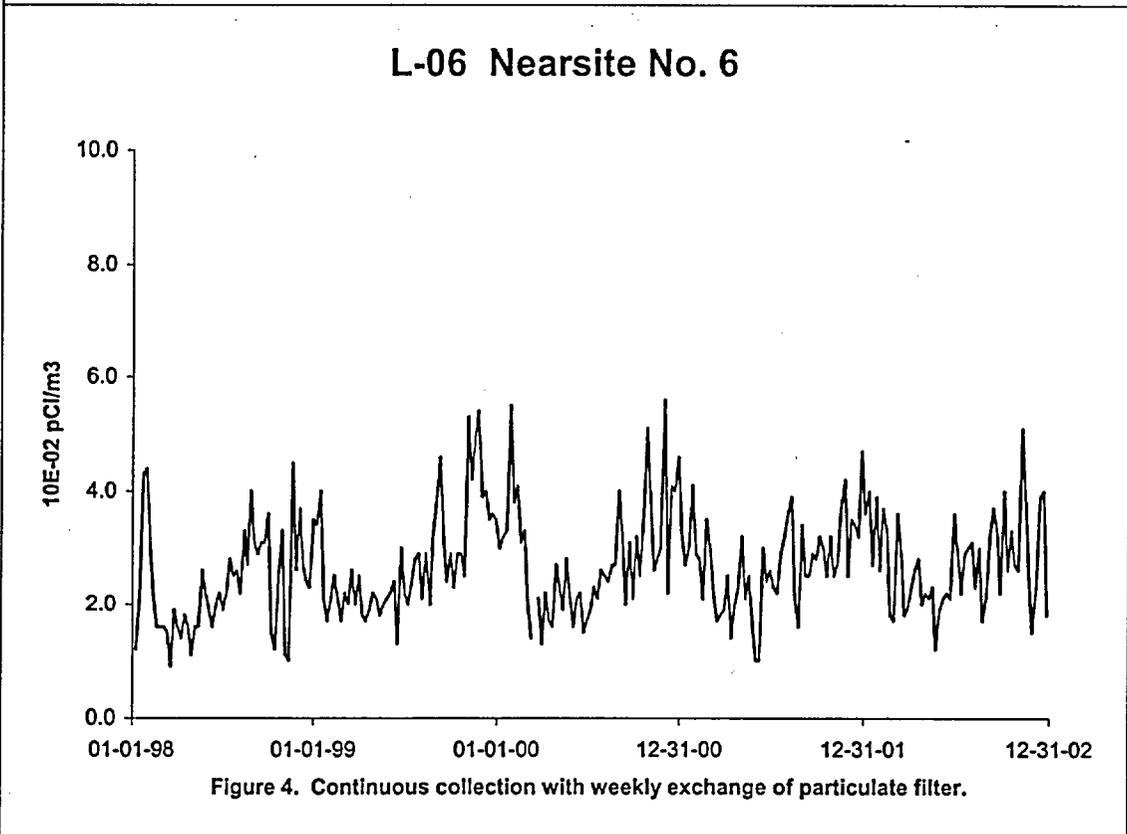
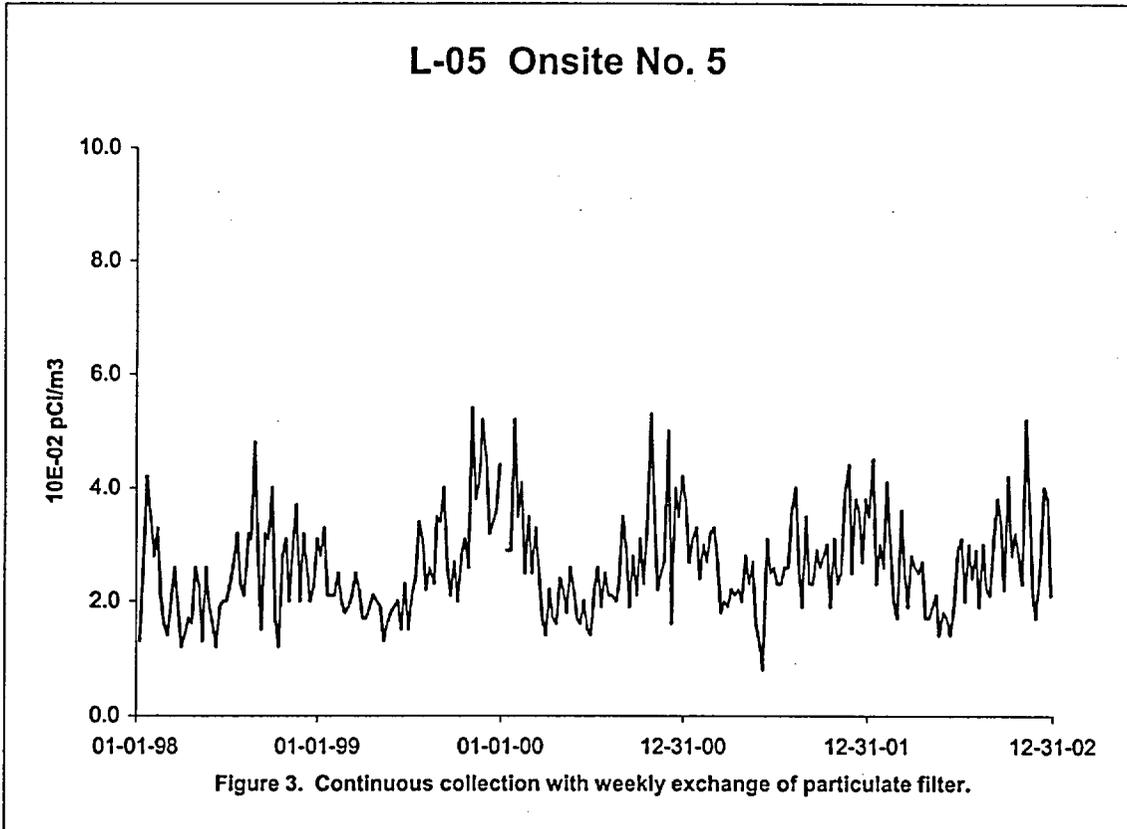
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5.0 GRAPHS OF DATA TRENDS

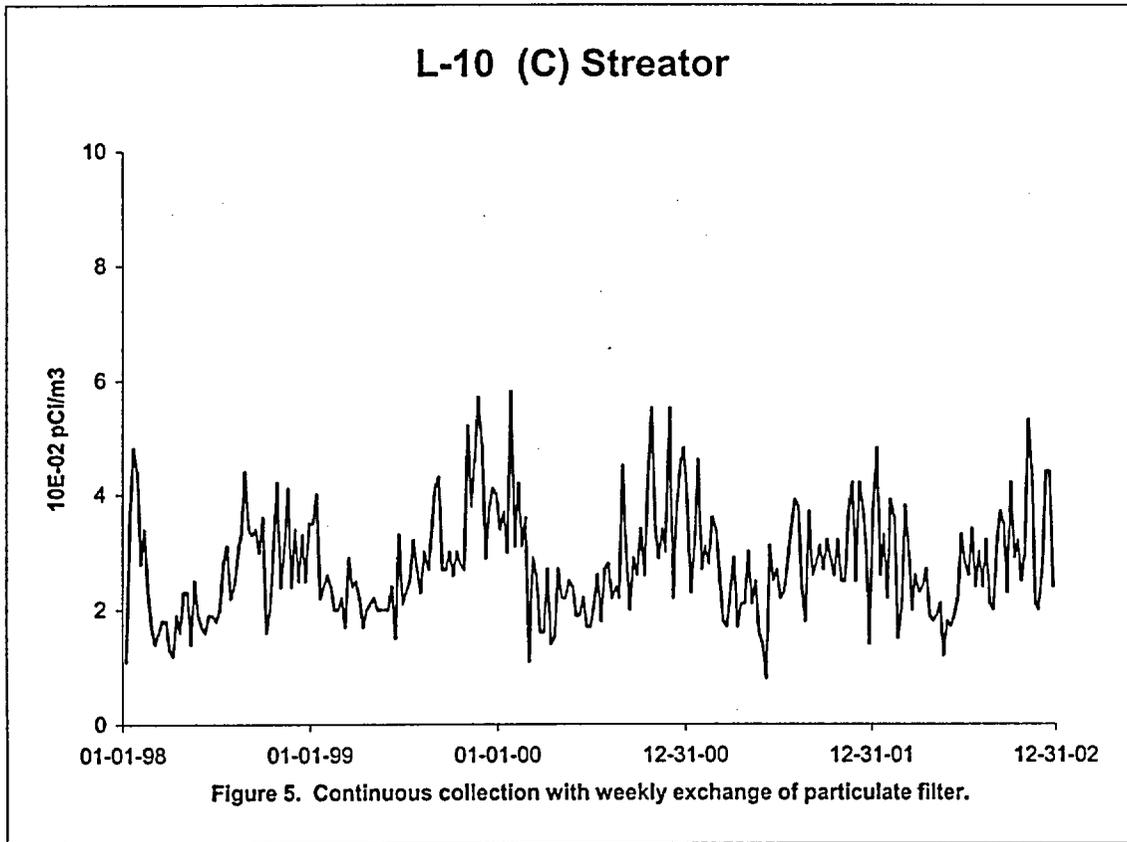
Air Particulates - Gross Beta



Air Particulates - Gross Beta



Air Particulates - Gross Beta



Surface Water - Gross Beta

L-21 Illinois River at Seneca

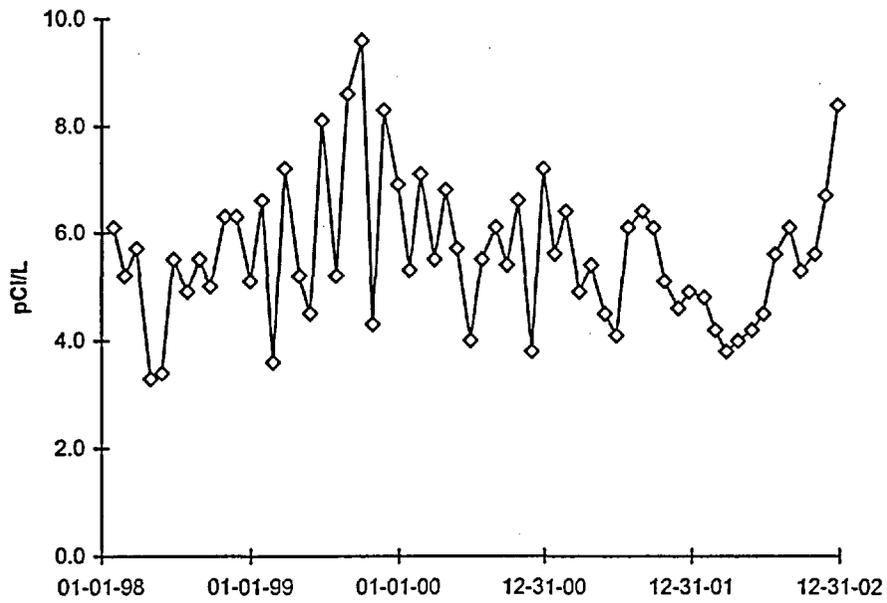


Figure 6. Monthly composites of weekly collections.

L-40 Illinois River Downstream

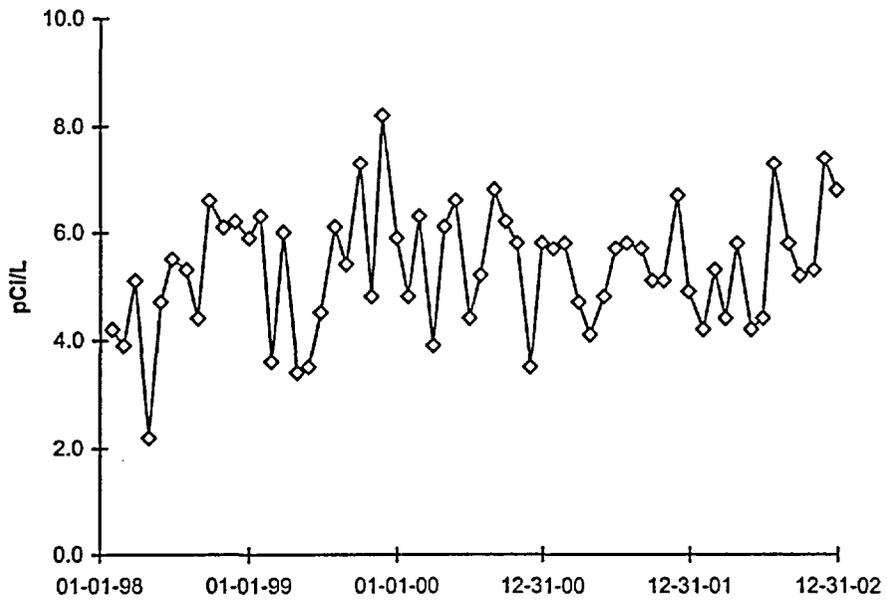


Figure 7. Monthly composites of weekly collections.

Surface Water-Tritium

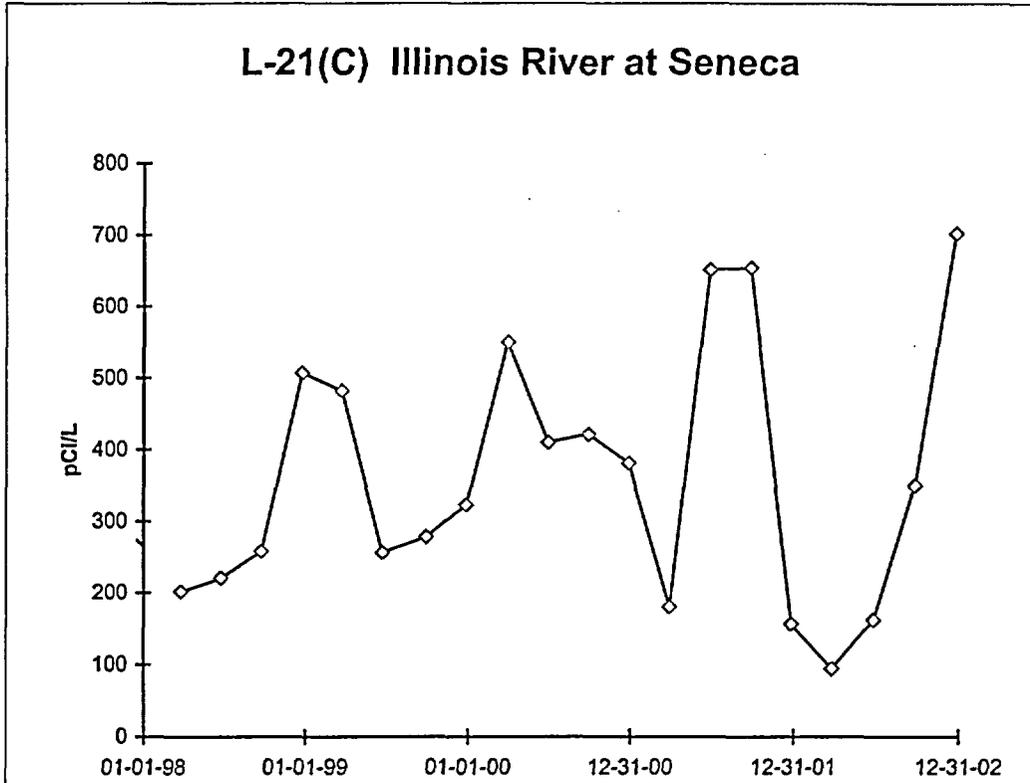


Figure 8. Quarterly composites of weekly collections.

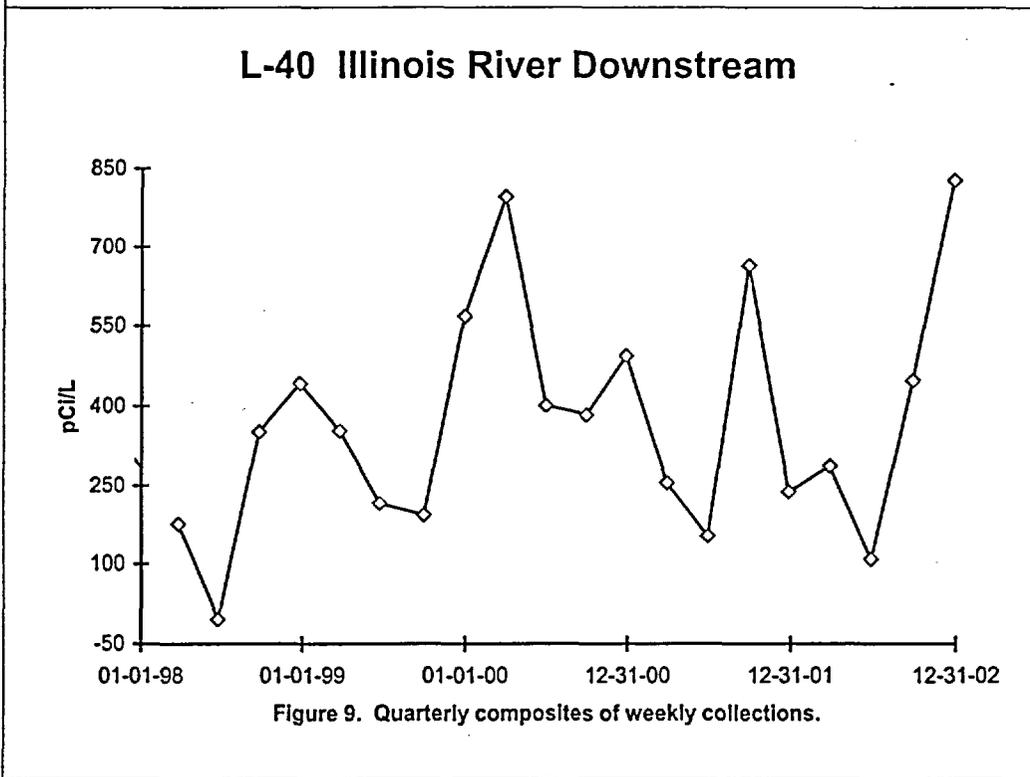


Figure 9. Quarterly composites of weekly collections.

Well Water-Tritium

L-27 LSCS Onsite Well at Station

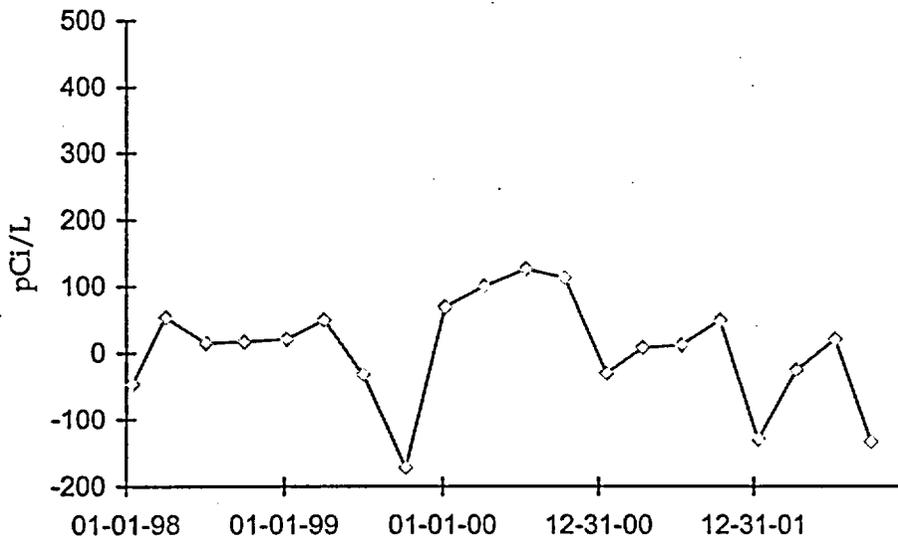


Figure 11. Quarterly collections.

L-28 Marseilles Well

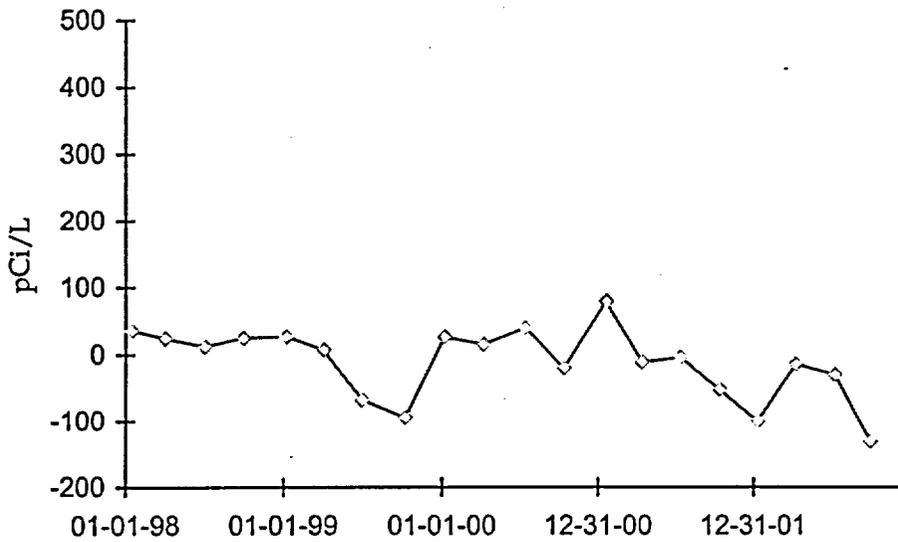


Figure 11. Quarterly collections.

APPENDIX IV
INTERLABORATORY COMPARISON PROGRAM RESULTS

Appendix IV

Interlaboratory Comparison Program Results

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

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

Results in Table IV-1 were obtained through participation in the environmental sample crosscheck program administered by Environmental Resources Associates, serving as a replacement for studies conducted previously by the U.S. EPA Environmental Monitoring Systems Laboratory, Las Vegas, Nevada.

The results in Table IV-2 were obtained for Thermoluminescent Dosimeters (TLDs), via International Intercomparison of Environmental Dosimeters under the sponsorships listed in Table A-2. Results of internal laboratory testing is also listed.

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

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

Table IV-5 list results of the in-house "duplicate" program for the past twelve months. Acceptance is based on the difference of the results being less than the sum of the errors. Data for previous years available upon request.

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

The results in Table IV-7 were obtained through participation in the Environmental Measurement Laboratory Quality Assessment Program.

Attachment A lists acceptance criteria for "spiked" samples.

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

Attachment A

ACCEPTANCE CRITERIA FOR "SPIKED" SAMPLES

LABORATORY PRECISION: ONE STANDARD DEVIATION VALUES FOR VARIOUS ANALYSES^a

<u>Analysis</u>	<u>Level</u>	<u>One standard deviation for single determination</u>
Gamma Emitters	5 to 100 pCi/liter or kg > 100 pCi/liter or kg	5.0 pCi/liter 5% of known value
Strontium-89 ^b	5 to 50 pCi/liter or kg > 50 pCi/liter or kg	5.0 pCi/liter 10% of known value
Strontium-90 ^b	2 to 30 pCi/liter or kg > 30 pCi/liter or kg	5.0 pCi/liter 10% of known value
Potassium-40	> 0.1 g/liter or kg	5% of known value
Gross alpha	20 pCi/liter > 20 pCi/liter	5.0 pCi/liter 25% of known value
Gross beta	100 pCi/liter > 100 pCi/liter	5.0 pCi/liter 5% of known value
Tritium	4,000 pCi/liter > 4,000 pCi/liter	1s = (pCi/liter) = 169.85 x (known) ^{0.0933} 10% of known value
Radium-226,-228	0.1 pCi/liter	15% of known value
Plutonium	0.1 pCi/liter, gram, or sample	10% of known value
Iodine-131, Iodine-129 ^b	55 pCi/liter > 55 pCi/liter	6.0 pCi/liter 10% of known value
Uranium-238, Nickel-63 ^b Technetium-99 ^b	35 pCi/liter > 35 pCi/liter	6.0 pCi/liter 15% of known value
Iron-55 ^b	50 to 100 pCi/liter > 100 pCi/liter	10 pCi/liter 10% of known value
Others ^b	---	20% of known value

^a From EPA publication, "Environmental Radioactivity Laboratory Intercomparison Studies Program, Fiscal Year, 1981-1982, EPA-600/4-81-004.

^b Laboratory limit.

TABLE IV-1. Interlaboratory Comparison Crosscheck program, Environmental Resource Associates (ERA)^a.

Lab Code	Date	Analysis	Concentration (pCi/L)		
			Laboratory Result ^b	ERA Result ^c	Control Limits
STW-940	02/20/02	Sr-89	53.0 ± 2.5	55.3 ± 5.0	46.6 - 64.0
STW-940	02/20/02	Sr-90	16.6 ± 0.5	15.9 ± 5.0	7.2 - 24.6
STW-942	02/20/02	Gr. Alpha	6.5 ± 0.6	8.0 ± 5.0	0.0 - 16.7
STW-942	02/20/02	Gr. Beta	45.7 ± 3.1	48.3 ± 5.0	39.6 - 57.0
STW-944	02/20/02	Ba-133	25.8 ± 1.5	28.9 ± 5.0	20.2 - 37.6
STW-944	02/20/02	Co-60	76.9 ± 2.7	73.4 ± 5.0	64.7 - 82.1
STW-944	02/20/02	Cs-134	38.7 ± 1.6	42.1 ± 5.0	33.4 - 50.8
STW-944	02/20/02	Cs-137	92.9 ± 2.7	88.8 ± 5.0	80.1 - 97.5
STW-944	02/20/02	Ra-226	15.3 ± 0.7	14.3 ± 2.2	10.6 - 18.0
STW-944	02/20/02	Ra-228	17.5 ± 0.4	16.9 ± 4.2	9.6 - 24.2
STW-944	02/20/02	Uranium	23.8 ± 1.1	28.3 ± 3.0	23.1 - 33.5
STW-944	02/20/02	Zn-65	361.0 ± 9.2	359.0 ± 35.9	298.0 - 420.0
STW-951	05/22/02	Gr. Alpha	23.9 ± 2.5	22.8 ± 5.7	13.0 - 32.6
STW-951	05/22/02	Ra-226	5.9 ± 0.5	6.1 ± 0.9	4.5 - 7.7
STW-951	05/22/02	Ra-228	5.6 ± 0.9	4.5 ± 1.1	2.6 - 6.5
STW-951	05/22/02	Uranium	7.6 ± 0.2	9.3 ± 3.0	4.1 - 14.5
STW-952	05/22/02	Co-60	37.9 ± 0.7	39.1 ± 5.0	30.4 - 47.8
STW-952	05/22/02	Cs-134	14.5 ± 0.8	17.1 ± 5.0	8.4 - 25.8
STW-952	05/22/02	Cs-137	50.0 ± 2.0	52.1 ± 5.0	43.4 - 60.8
STW-952	05/22/02	Gr. Beta	171.0 ± 2.5	189.0 ± 28.4	140.0 - 238.0
STW-952	05/22/02	Sr-89	28.4 ± 4.8	31.7 ± 5.0	23.0 - 40.4
STW-952	05/22/02	Sr-90	32.4 ± 3.1	28.3 ± 5.0	19.6 - 37.0
STW-953 ^d	05/22/02	H-3	13900.0 ± 100.0	17400.0 ± 1740.0	14400.0 - 20400.0
STW-954	05/22/02	I-131	14.6 ± 0.3	14.7 ± 2.0	11.2 - 18.2
STW-965	08/21/02	Ba-133	71.9 ± 2.1	80.0 ± 8.0	66.4 - 93.6
STW-965	08/21/02	Co-60	23.8 ± 1.0	23.3 ± 5.0	14.6 - 32.0
STW-965	08/21/02	Cs-134 ^e	62.9 ± 1.2	71.7 ± 5.0	63.0 - 80.4
STW-965	08/21/02	Cs-137	219.3 ± 10.7	214.0 ± 10.7	195.0 - 233.0
STW-965	08/21/02	Gr. Alpha	74.4 ± 0.6	58.8 ± 14.7	33.5 - 84.1
STW-965	08/21/02	Gr. Beta	26.7 ± 0.4	21.9 ± 2.2	13.2 - 30.6
STW-965	08/21/02	Ra-226	5.0 ± 0.5	5.0 ± 0.8	3.7 - 6.3
STW-965	08/21/02	Ra-228	6.0 ± 0.7	4.7 ± 1.2	2.7 - 6.7
STW-965	08/21/02	Sr-89	28.4 ± 1.5	29.0 ± 5.0	20.3 - 37.7
STW-965	08/21/02	Sr-90	36.5 ± 1.1	36.4 ± 5.0	27.7 - 45.1
STW-965	08/21/02	Uranium	4.1 ± 0.1	5.0 ± 3.0	0.0 - 10.2
STW-965	08/21/02	Zn-65	92.4 ± 2.2	95.7 ± 9.6	79.4 - 112.0
STW-966	11/20/02	Gr. Alpha	9.3 ± 0.4	12.2 ± 5.0	3.5 - 20.9
STW-966	11/20/02	Gr. Beta	44.7 ± 1.0	47.0 ± 5.0	38.3 - 55.7
STW-967	11/20/02	H-3	10100.0 ± 38.7	10200.0 ± 1020.0	8440.0 - 12000.0
STW-968	11/20/02	Ra-226	11.6 ± 0.1	12.1 ± 1.8	9.0 - 15.2
STW-968	11/20/02	Ra-228	16.0 ± 1.4	15.1 ± 3.8	8.6 - 21.6
STW-968	11/20/02	Uranium	15.5 ± 0.5	19.2 ± 3.0	14.0 - 24.4
STW-969	11/20/02	I-131	6.0 ± 0.4	6.8 ± 2.0	3.3 - 10.2

TABLE IV-1. Interlaboratory Comparison Crosscheck program, Environmental Resource Associates (ERA)^a.

Lab Code	Date	Analysis	Concentration (pCi/L)		
			Laboratory Result ^b	ERA Result ^c	Control Limits
STW-970	11/20/02	Co-60	104.0 ± 7.1	104.0 ± 5.2	95.0 - 113.0
STW-970	11/20/02	Cs-134	48.2 ± 2.3	55.5 ± 5.0	46.8 - 64.2
STW-970	11/20/02	Cs-137	109.0 ± 12.6	117.0 ± 5.9	107.0 - 127.0
STW-970	11/20/02	Gr. Beta	252.0 ± 26.8	288.0 ± 49.5	244.0 - 416.0
STW-970	11/20/02	Sr-89	43.2 ± 0.7	47.6 ± 5.0	38.9 - 56.3
STW-970	11/20/02	Sr-90	7.5 ± 0.2	7.6 ± 5.0	0.0 - 16.2
STW-971	11/20/02	Gr. Alpha	74.9 ± 1.5	103.0 ± 25.8	58.4 - 148.0
STW-971	11/20/02	Ra-226	8.9 ± 0.0	9.1 ± 1.4	6.7 - 11.5
STW-971	11/20/02	Ra-228	15.3 ± 0.1	17.8 ± 4.5	10.1 - 25.5
STW-971	11/20/02	Uranium	51.7 ± 1.6	61.7 ± 6.2	51.0 - 72.4

^a Results obtained by Environmental, Inc., Midwest Laboratory as a participant in the environmental samples crosscheck program operated by Environmental Resources Associates (ERA).

^b Unless otherwise indicated, the laboratory result is given as the mean ± standard deviation for three determinations.

^c Results are presented as the known values, expected laboratory precision (1 sigma, 1 determination) and control limits as provided by ERA.

^d Analysis was repeated; result of reanalysis: 16114±487 pCi/L.

^e ERA acknowledged an unacceptably high percentage of failure for Cs-134 and questioned its own control limits. No problems were identified in the analysis.

TABLE IV-2. Crosscheck program results; Thermoluminescent Dosimetry, (TLDs).

Lab Code	TLD Type	Date	Measurement	Known Value	mR	
					Lab Result ± 2 sigma	Control Limits
<u>Environmental, Inc.</u>						
2001-1	CaSO4: Dy Cards	12/24/2001	Reader 1, #1	3.98	3.71 ± 0.12	2.79 - 5.17
2001-1	CaSO4: Dy Cards	12/24/2001	Reader 1, #1	3.98	3.38 ± 0.09	2.79 - 5.17
2001-1	CaSO4: Dy Cards	12/24/2001	Reader 1, #2	7.07	7.89 ± 0.18	4.95 - 9.19
2001-1	CaSO4: Dy Cards	12/24/2001	Reader 1, #2	7.07	7.64 ± 0.25	4.95 - 9.19
2001-1	CaSO4: Dy Cards	12/24/2001	Reader 1, #3	15.9	18.62 ± 0.40	11.13 - 20.67
2001-1	CaSO4: Dy Cards	12/24/2001	Reader 1, #3	15.9	19.58 ± 0.12	11.13 - 20.67
2001-1	CaSO4: Dy Cards	12/24/2001	Reader 1, #4	63.61	78.24 ± 1.23	44.53 - 82.69
2001-1	CaSO4: Dy Cards	12/24/2001	Reader 1, #4	63.61	79.89 ± 2.47	44.53 - 82.69
<u>Environmental, Inc.</u>						
2002-1	CaSO4: Dy Cards	5/28/2002	Reader 1, #1	4.84	4.44 ± 0.16	3.39 - 6.29
2002-1	CaSO4: Dy Cards	5/28/2002	Reader 1, #1	4.84	4.37 ± 0.20	3.39 - 6.29
2002-1	CaSO4: Dy Cards	5/28/2002	Reader 1, #2	8.60	9.08 ± 0.14	6.02 - 11.18
2002-1	CaSO4: Dy Cards	5/28/2002	Reader 1, #2	8.60	8.76 ± 0.16	6.02 - 11.18
2002-1	CaSO4: Dy Cards	5/28/2002	Reader 1, #3	19.34	22.14 ± 0.27	13.54 - 25.14
2002-1	CaSO4: Dy Cards	5/28/2002	Reader 1, #3	19.34	24.03 ± 0.30	13.54 - 25.14
2002-1	CaSO4: Dy Cards	5/28/2002	Reader 1, #4	77.36	92.77 ± 0.58	54.15 - 100.57
2002-1	CaSO4: Dy Cards	5/28/2002	Reader 1, #4	77.36	85.25 ± 0.37	54.15 - 100.57
<u>Environmental, Inc.</u>						
2002-2	CaSO4: Dy Cards	12/13/2002	Reader 1, 30	56.73	71.61 ± 1.79	39.71 - 73.75
2002-2	CaSO4: Dy Cards	12/13/2002	Reader 1, 45 ^a	25.21	33.49 ± 1.38	17.65 - 32.77
^a Precision of the distance (cm) measurement can significantly increase the error. The placement of the card holder on the table could account for the higher error.						
2002-2	CaSO4: Dy Cards	12/13/2002	Reader 1, 60	14.18	17.37 ± 1.24	9.93 - 18.43
2002-2	CaSO4: Dy Cards	12/13/2002	Reader 1, 75	9.08	10.65 ± 1.02	6.36 - 11.80
2002-2	CaSO4: Dy Cards	12/13/2002	Reader 1, 90	6.30	6.37 ± 0.54	4.41 - 8.19
2002-2	CaSO4: Dy Cards	12/13/2002	Reader 1, 120	3.55	4.60 ± 0.41	2.49 - 4.62
2002-2	CaSO4: Dy Cards	12/13/2002	Reader 1, 135	2.80	2.51 ± 0.23	1.96 - 3.64
2002-2	CaSO4: Dy Cards	12/13/2002	Reader 1, 150	2.28	2.22 ± 0.28	1.60 - 2.96

^c Control limits are based on Attachment A, Page IV3 of this report.

TABLE IV-3. In-House "Spike" Samples

Lab Code	Sample Type	Date	Analysis	Concentration (pCi/L) ^a		
				Laboratory results 2s, n=1 ^b	Known Activity	Control Limits ^c
SPW-11552	Water	1/7/2002	Gr. Alpha	35.33 ± 1.83	34.57	17.29 - 51.86
SPW-11552	Water	1/7/2002	Gr. Beta	112.62 ± 2.44	107.70	96.93 - 118.47
SPMI-595	Milk	1/31/2002	Cs-134	29.63 ± 4.98	27.10	17.10 - 37.10
SPMI-595	Milk	1/31/2002	Cs-137	51.31 ± 7.55	50.89	40.89 - 60.89
SPMI-597	Milk	1/31/2002	Co-60	44.18 ± 7.76	41.36	31.36 - 51.36
SPMI-597	Milk	1/31/2002	Cs-134	20.15 ± 5.08	22.59	12.59 - 32.59
SPMI-597	Milk	1/31/2002	Cs-137	54.88 ± 8.32	50.89	40.89 - 60.89
SPAP-594	Air Filter	2/6/2002	Gr. Beta	1.58 ± 0.02	1.55	0.00 - 11.55
SPW-599	Water	2/19/2002	H-3	47607 ± 595	50189	40151 ± 60227
SPMI-1446	Milk	3/8/2002	I-131(G)	87.84 ± 11.47	85.20	75.20 - 95.20
SPW-1446	Water	3/8/2002	I-131	82.98 ± 1.20	85.20	68.16 - 102.24
SPW-1446	Water	3/8/2002	I-131(G)	92.75 ± 12.87	85.20	75.20 - 95.20
SPMI-1448	Milk	3/8/2002	I-131	88.00 ± 1.13	85.20	68.16 - 102.24
SPVE-1444	Vegetation	3/11/2002	I-131(G)	0.39 ± 0.04	0.42	0.25 - 0.58
SPAP-2078	Air Filter	4/8/2002	Gr. Beta	1.43 ± 0.01	1.55	0.00 - 11.55
SPW-2080	Water	4/5/2002	H-3	49121 ± 608	46912	37530 ± 56294
SPF-2082	Fish	4/5/2002	Cs-134	0.83 ± 0.04	0.83	0.50 - 1.16
SPF-2082	Fish	4/5/2002	Cs-137	1.29 ± 0.07	1.35	0.81 - 1.89
SPMI-2084	Milk	4/8/2002	Cs-134	20.93 ± 5.82	24.69	14.69 - 34.69
SPMI-2084	Milk	4/8/2002	Cs-137	51.83 ± 10.23	50.56	40.56 - 60.56
SPMI-2084	Milk	4/8/2002	I-131	87.72 ± 1.28	88.37	70.70 - 106.04
SPMI-2084	Milk	4/8/2002	I-131(G)	84.08 ± 10.75	88.37	78.37 - 98.37
SPMI-2084	Milk	4/8/2002	Sr-90	62.81 ± 1.99	66.85	53.48 - 80.22
SPW-2115	Water	4/8/2002	I-131	82.42 ± 1.27	88.37	70.70 - 106.04
SPW-2116	Water	4/8/2002	Co-60	32.47 ± 5.78	33.09	23.09 - 43.09
SPW-2116	Water	4/8/2002	Cs-134	30.80 ± 3.60	28.80	18.80 - 38.80
SPW-2116	Water	4/8/2002	Cs-137	53.85 ± 7.07	50.56	40.56 - 60.56
SPW-2116	Water	4/8/2002	I-131(G)	79.09 ± 7.58	88.37	78.37 - 98.37
SPW-2116	Water	4/8/2002	Sr-90	70.35 ± 2.32	66.85	53.48 - 80.22
SPW-2019	Water	5/3/2002	Gr. Alpha	25.89 ± 1.71	34.57	17.29 - 51.86
SPW-2019	Water	5/3/2002	Gr. Beta	101.19 ± 2.37	107.70	96.93 - 118.47
SPCH-3064	Charcoal	5/11/2002	I-131(G)	0.74 ± 0.04	0.85	0.51 - 1.18
SPW-4682	Water	7/17/2002	H-3	40856 ± 548	46179	36943 ± 55415
SPAP-4685	Air Filter	7/17/2002	Gr. Beta	1.58 ± 0.02	1.55	0.00 - 11.55
W-71702S	Water	7/17/2002	Fe-55	10463.00 ± 126.00	12200.60	9760.48 - 14640.72
W-71702S	Water	07/17/02	H-3	45779 ± 583	46179	36943 ± 55415
W-71702S	Water	07/17/02	Ni-63	17.02 ± 1.50	17.10	10.26 - 23.94
SPVE-4910	Vegetation	07/22/02	Sr-90	10.22 ± 0.80	9.04	0.00 - 19.04
W-72302S	Water	07/23/02	Sr-90	21.43 ± 0.97	26.55	16.55 - 36.55
W-80102S	Water	08/01/02	Gr. Alpha	41.25 ± 4.58	34.45	17.23 - 51.68
W-80102S	Water	08/01/02	Gr. Beta	113.66 ± 5.30	107.70	96.93 - 118.47
W-80202S	Water	08/02/02	Tc-99	16.39 ± 0.72	14.13	2.13 - 26.13
SPW-7188	Water	10/25/02	Fe-55	20396 ± 265	22778	18222 - 27334
SPW-7190	Water	10/25/02	Ni-63	227.18 ± 11.60	170.80	102.48 - 239.12

TABLE IV-3. In-House "Spike" Samples

Lab Code	Sample Type	Date	Analysis	Concentration (pCi/L)		
				Laboratory results 2s, n=1 ^b	Known Activity	Control Limits ^c
SPW-7192	Water	10/25/02	H-3	96310 ± 871	90963	72770 - 109156
SPW-7194	Water	10/25/02	C-14	42938 ± 167	49661	29796 - 69525
SPAP-7198	Air Filter	10/25/02	Gr. Beta	1.65 ± 0.02	1.53	0.00 - 11.53
SPW-7335	Water	10/30/02	Co-60	39.67 ± 7.38	37.05	27.05 - 47.05
SPW-7335	Water	10/30/02	Cs-134	33.09 ± 5.96	34.11	24.11 - 44.11
SPW-7335	Water	10/30/02	Cs-137	46.80 ± 10.39	49.90	39.90 - 59.90
SPMI-7336	Milk	10/30/02	Cs-134	34.40 ± 4.99	34.11	24.11 - 44.11
SPMI-7336	Milk	10/30/02	Cs-137	46.52 ± 8.52	49.91	39.91 - 59.91
SPF-7340	Fish	10/30/02	Cs-134	0.66 ± 0.03	0.68	0.41 - 0.95
SPF-7340	Fish	10/30/02	Cs-137	1.35 ± 0.05	1.33	0.80 - 1.86
SPS-8102	Sediment	11/01/02	Sr-90	14.69 ± 0.67	13.45	3.45 - 23.45

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

^b Results are based on single determinations.

^c Control limits are based on Attachment A, Page IV3 of this report.

NOTE: For fish, Jello is used for the Spike matrix. For Vegetation, cabbage is used for the Spike matrix.

TABLE IV-4. In-House "Blank" Samples

Lab Code	Sample Type	Date	Analysis	Concentration (pCi/L) ^a		Acceptance Criteria (4.66 σ)
				Laboratory results (4.66 σ)		
				LLD	Activity ^b	
SPW-11551	water	1/7/2002	Gr. Alpha	0.47	0.45 \pm 0.39	1
SPW-11551	water	1/7/2002	Gr. Beta	1.37	0.55 \pm 1.03	3.2
SPAP-590	Air Filter	1/31/2002	Co-60	1.78		100
SPAP-590	Air Filter	1/31/2002	Cs-134	3.42		100
SPAP-590	Air Filter	1/31/2002	Cs-137	2.33		100
SPAP-590	Air Filter	1/31/2002	Gr. Beta	0.74	-0.096 \pm 0.38	3.2
SPMI-596	Milk	1/31/2002	Co-60	3.54		10
SPMI-596	Milk	1/31/2002	Cs-134	3.24		10
SPMI-596	Milk	1/31/2002	Cs-137	3.89		10
SPMI-596	Milk	1/31/2002	K-40		1472.1 \pm 101.50	0
SPW-598	water	1/31/2002	Co-60	2.30		10
SPW-598	water	1/31/2002	Cs-134	3.74		10
SPW-598	water	1/31/2002	Cs-137	3.23		10
SPW-600	water	1/31/2002	H-3	138.80	-96.5 \pm 63.40	200
SPMI-1447	Milk	3/7/2002	I-131(G)	7.63		20
SPVE-1443	Vegetation	3/8/2002	I-131(G)	0.02		20
SPW-1445	water	3/8/2002	Co-60	2.76		10
SPW-1445	water	3/8/2002	Cs-134	2.87		10
SPW-1445	water	3/8/2002	Cs-137	4.34		10
SPW-1445	water	3/8/2002	I-131	0.45	0.17 \pm 0.31	0.5
SPW-1445	water	3/8/2002	I-131(G)	6.50		20
SPMI-1447	Milk	3/8/2002	I-131	0.31	0.15 \pm 0.22	0.5
SPAP-2077	Air Filter	4/8/2002	Gr. Beta	0.32	-0.055 \pm 0.19	3.2
SPW-2079	water	4/5/2002	H-3	134.17	16.13 \pm 67.39	200
SPF-2081	Fish	4/5/2002	Cs-134	7.67		100
SPF-2081	Fish	4/5/2002	Cs-137	9.54		100
SPMI-2083	Milk	4/8/2002	Cs-134	2.90		10
SPMI-2083	Milk	4/8/2002	Cs-137	3.03		10
SPMI-2083	Milk	4/8/2002	I-131	0.52	-0.38 \pm 0.34	0.5
SPMI-2083	Milk ^c	4/8/2002	Sr-90	0.48	1.29 \pm 0.36	1
SPW-2115	water	4/8/2002	Co-60	1.49		10
SPW-2115	water	4/8/2002	Cs-134	2.09		10
SPW-2115	water	4/8/2002	Cs-137	3.78		10
SPW-2115	water	4/8/2002	I-131	0.50	-0.16 \pm 0.33	0.5
SPW-2115	water	4/8/2002	I-131(G)	3.30		20
SPW-2115	water	4/8/2002	Sr-90	0.66	0.10 \pm 0.32	1
SPW-2018	water	4/22/2002	Gr. Alpha	0.56	-0.24 \pm 0.38	1
SPW-2018	water	4/22/2002	Gr. Beta	1.38	3.19 \pm 1.03	3.2
SPch-3063	Charcoal	5/11/2002	I-131(G)	8.27		9.6
SPW-4683	water	7/17/2002	H-3	129.00	-62.8 \pm 60.30	200
W-71702	water	7/17/2002	Fe-55	33.61	-1.72 \pm 15.63	1000
W-71702	water	7/17/2002	Ni-63	2.56	0.71 \pm 1.37	20
W-71802B	water	7/18/2002	Gr. Alpha	0.48	0.31 \pm 0.36	1
W-71802B	water	7/18/2002	Gr. Beta	1.33	0.9 \pm 0.95	3.2

TABLE IV-4. In-House "Blank" Samples

Lab Code	Sample Type	Date	Analysis	Concentration (pCi/L) ^a		
				Laboratory results (4.66σ)		Acceptance Criteria (4.66 σ)
				LLD	Activity ^b	
W-72302	water	7/23/2002	Sr-90	0.27	0.027 ± 0.13	1
W-80202	water	8/2/2002	Tc-99	0.34	-0.051 ± 0.16	10
SPW-7189	water	10/25/2002	Fe-55	978.21	21.77 ± 595.33	1000
SPW-7191	water	10/25/2002	Ni-63	11.74	4.47 ± 7.24	20
SPW-7193	water	10/25/2002	H-3	146.00	-92 ± 65.00	200
SPAP-7199	Air Filter	10/25/2002	Gr. Beta	0.00	-0.0024 ± 0.00	3.2
SPMI-7333	Milk	10/30/2002	Cs-134	5.30		10
SPMI-7333	Milk	10/30/2002	Cs-137	4.80		10
SPW-7334	water	10/30/2002	Co-60	3.69		10
SPW-7334	water	10/30/2002	Cs-134	5.37		10
SPW-7334	water	10/30/2002	Cs-137	3.90		10
SPF-7339	Fish	10/30/2002	Cs-134	4.69		100
SPF-7339	Fish	10/30/2002	Cs-137	11.18		100

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

^b The activity reported is the net activity result.

^c Low levels of Sr-90 are still detected in the environment. A concentration of (1-5 pCi/L) in milk is not unusual.

TABLE IV-5. In-House "Duplicate" Samples

Lab Code	Date	Analysis	Concentration (pCi/L) ^a		Averaged Result
			First Result	Second Result	
CF-20, 21	1/2/2002	Be-7	0.47 ± 0.25	0.37 ± 0.12	0.42 ± 0.14
CF-20, 21	1/2/2002	Gr. Beta	7.82 ± 0.20	7.95 ± 0.21	7.89 ± 0.14
CF-20, 21	1/2/2002	K-40	6.65 ± 0.55	6.53 ± 0.36	6.59 ± 0.33
CF-20, 21	1/2/2002	Sr-90	0.01 ± 0.01	0.01 ± 0.01	0.01 ± 0.00
AP-11804, 11805	1/2/2002	Be-7	0.054 ± 0.011	0.049 ± 0.019	0.052 ± 0.011
AP-11825, 11826	1/2/2002	Be-7	0.053 ± 0.013	0.043 ± 0.013	0.048 ± 0.009
AP-11846, 11847	1/2/2002	Be-7	0.054 ± 0.018	0.048 ± 0.016	0.051 ± 0.012
WW-150, 151	1/7/2002	Gr. Beta	1.26 ± 0.50	1.04 ± 0.46	1.15 ± 0.34
MI-124, 125	1/8/2002	K-40	1332.30 ± 158.90	1271.70 ± 151.50	1302.00 ± 109.77
W-172, 173	1/8/2002	H-3	153.00 ± 68.00	148.00 ± 68.00	150.50 ± 48.08
SW-11698, 11699	1/8/2002	Gr. Alpha	2.51 ± 1.36	3.71 ± 1.80	3.11 ± 1.13
SW-11698, 11699	1/8/2002	Gr. Beta	7.68 ± 1.33	8.49 ± 1.43	8.09 ± 0.98
U-275, 276	1/10/2002	Gr. Alpha	1.40 ± 1.00	1.10 ± 1.20	1.25 ± 0.78
LW-356, 357	1/16/2002	Gr. Beta	3.47 ± 0.65	2.94 ± 0.61	3.21 ± 0.45
LW-377, 378	1/16/2002	Gr. Beta	2.75 ± 0.68	2.84 ± 0.61	2.79 ± 0.46
SW-525, 526	1/30/2002	Gr. Alpha	0.56 ± 0.35	0.24 ± 0.35	0.40 ± 0.25
SW-525, 526	1/30/2002	Gr. Beta	2.29 ± 0.41	2.58 ± 0.39	2.43 ± 0.28
DW-504, 505	1/31/2002	Gr. Alpha	2.30 ± 1.70	3.90 ± 1.40	3.10 ± 1.10
MI-649, 650	2/5/2002	K-40	1319.40 ± 176.70	1210.80 ± 118.20	1265.10 ± 106.29
DW-697, 698	2/6/2002	Gr. Beta	5.10 ± 1.20	4.70 ± 1.20	4.90 ± 0.85
DW-927, 928	2/8/2002	Sr-90	0.69 ± 0.29	0.71 ± 0.29	0.70 ± 0.21
W-973, 974	2/18/2002	Fe-55	7.29 ± 0.97	6.86 ± 0.94	7.08 ± 0.68
W-1673, 1674	2/25/2002	H-3	2640.00 ± 155.00	2908.00 ± 161.00	2774.00 ± 111.74
SWT-1395, 1396	2/26/2002	Gr. Beta	2.96 ± 0.59	2.29 ± 0.53	2.63 ± 0.40
MI-1268, 1269	2/27/2002	K-40	1460.50 ± 162.50	1573.00 ± 168.00	1516.75 ± 116.87
MI-1268, 1269	2/27/2002	Sr-90	0.77 ± 0.36	0.95 ± 0.40	0.86 ± 0.27
MI-1332, 1333	3/5/2002	K-40	1503.00 ± 164.00	1305.00 ± 168.00	1404.00 ± 117.39
MI-1332, 1333	3/5/2002	Sr-90	1.35 ± 0.38	1.07 ± 0.40	1.21 ± 0.28
MI-1458, 1459	3/6/2002	K-40	1411.70 ± 166.70	1390.00 ± 172.30	1400.85 ± 119.87
DW-10100, 10101	3/9/2002	Gr. Alpha	4.10 ± 1.70	1.80 ± 1.60	2.95 ± 1.17
DW-10111, 10112	3/9/2002	Gr. Alpha	7.10 ± 2.00	8.30 ± 2.30	7.70 ± 1.52
MI-1521, 1522	3/11/2002	K-40	1270.80 ± 103.30	1369.10 ± 121.60	1319.95 ± 79.78
MI-1521, 1522	3/11/2002	Sr-90	1.69 ± 0.46	2.46 ± 0.49	2.07 ± 0.34
MI-1541, 1542	3/11/2002	K-40	1562.20 ± 122.80	1529.30 ± 126.10	1545.75 ± 88.01
MI-1541, 1542	3/11/2002	Sr-90	0.85 ± 0.57	1.48 ± 0.43	1.16 ± 0.36
LW-1651, 1652	3/14/2002	Gr. Beta	2.90 ± 0.57	2.57 ± 0.56	2.74 ± 0.40
DW-10134, 10135	3/16/2002	Gr. Alpha	5.60 ± 1.90	5.40 ± 1.60	5.50 ± 1.24
WW-1694, 1695	3/18/2002	Gr. Beta	1.79 ± 0.59	1.53 ± 0.50	1.66 ± 0.39
SO-1715, 1716	3/19/2002	Cs-137	0.03 ± 0.01	0.02 ± 0.01	0.03 ± 0.01
SO-1715, 1716	3/19/2002	Gr. Beta	18.50 ± 1.70	19.10 ± 1.70	18.80 ± 1.20
DW-10302, 10303	3/20/2002	Gr. Alpha	2.30 ± 1.40	3.30 ± 1.60	2.80 ± 1.06
W-1758, 1759	3/25/2002	Gr. Alpha	2.50 ± 0.70	2.30 ± 0.60	2.40 ± 0.46
W-1758, 1759	3/25/2002	Gr. Beta	4.10 ± 1.20	2.50 ± 1.10	3.30 ± 0.81

TABLE IV-5. In-House "Duplicate" Samples

Lab Code	Date	Analysis	Concentration (pCi/L) ^a		
			First Result	Second Result	Averaged Result
MI-1926, 1927	3/26/2002	K-40	1414.00 ± 115.00	1316.00 ± 128.00	1365.00 ± 86.04
MI-1926, 1927	3/26/2002	Sr-90	2.30 ± 0.70	2.40 ± 0.70	2.35 ± 0.49
SWU-2010, 2011	3/26/2002	Gr. Beta	2.90 ± 0.60	2.20 ± 0.50	2.55 ± 0.39
DW-10376, 10377	3/27/2002	Gr. Beta	10.50 ± 1.30	10.10 ± 1.50	10.30 ± 0.99
AP-2479, 2480	3/28/2002	Be-7	0.064 ± 0.023	0.068 ± 0.014	0.066 ± 0.013
DW-10395, 10396	3/29/2002	Gr. Alpha	10.20 ± 2.10	14.60 ± 2.40	12.40 ± 1.59
LW-2181, 2182	3/31/2002	Gr. Beta	2.98 ± 0.68	1.99 ± 0.70	2.48 ± 0.49
LW-2181, 2182	3/31/2002	H-3	2694.43 ± 156.53	2688.84 ± 156.40	2691.64 ± 110.64
CW-2437, 2438	3/31/2002	Gr. Beta	1.09 ± 0.61	1.14 ± 0.58	1.11 ± 0.42
CW-2437, 2438	3/31/2002	H-3	6456.70 ± 229.20	6292.80 ± 226.52	6374.75 ± 161.12
MI-1947, 1948	4/1/2002	K-40	1421.40 ± 130.90	1256.80 ± 104.20	1339.10 ± 83.65
AP-2458, 2459	4/1/2002	Be-7	0.077 ± 0.011	0.081 ± 0.010	0.079 ± 0.008
DW-10409, 10410	4/1/2002	Gr. Alpha	39.30 ± 4.00	35.30 ± 3.60	37.30 ± 2.69
MI-2052, 2053	4/3/2002	K-40	1283.70 ± 103.20	1434.80 ± 147.90	1359.25 ± 90.17
MI-2052, 2053	4/3/2002	Sr-90	0.81 ± 0.36	0.75 ± 0.35	0.78 ± 0.25
AP-2711, 2712	4/3/2002	Be-7	0.071 ± 0.01	0.07 ± 0.01	0.07 ± 0.01
W-938, 939	4/9/2002	Ni-63	1.73 ± 0.10	1.82 ± 0.10	1.78 ± 0.07
SS-2202, 2203	4/9/2002	Gr. Beta	5.83 ± 1.16	5.52 ± 1.19	5.67 ± 0.83
SS-2202, 2203	4/9/2002	K-40	5.75 ± 0.48	6.11 ± 0.51	5.93 ± 0.35
F-2307, 2308	4/10/2002	K-40	2.75 ± 0.27	2.49 ± 0.32	2.62 ± 0.21
DW-10476, 10477	4/12/2002	Gr. Alpha	5.10 ± 1.30	3.90 ± 1.60	4.50 ± 1.03
W-2244, 2245	4/15/2002	Gr. Beta	1.70 ± 1.10	1.60 ± 1.00	1.65 ± 0.74
DW-10509, 10510	4/17/2002	Gr. Alpha	6.00 ± 2.00	7.30 ± 1.80	6.65 ± 1.35
SW-2690, 2691	4/24/2002	Gr. Beta	2.25 ± 0.68	2.15 ± 0.59	2.20 ± 0.45
SO-2903, 2904	4/24/2002	Be-7	1.22 ± 0.57	0.78 ± 0.43	1.00 ± 0.36
SO-2903, 2904	4/24/2002	Cs-137	0.13 ± 0.05	0.09 ± 0.05	0.11 ± 0.04
SO-2903, 2904	4/24/2002	K-40	21.06 ± 1.48	19.91 ± 1.16	20.48 ± 0.94
DW-10562, 10563	4/24/2002	Gr. Alpha	2.17 ± 1.13	3.25 ± 1.54	2.71 ± 0.96
DW-10578, 10579	4/29/2002	Gr. Alpha	8.20 ± 2.20	7.40 ± 2.00	7.80 ± 1.49
SO-2861, 2862	4/30/2002	Cs-137	236.40 ± 46.00	200.70 ± 52.60	218.55 ± 34.94
SO-2861, 2862	4/30/2002	K-40	10191.00 ± 784.60	11025.00 ± 941.30	10608.00 ± 612.71
SL-2819, 2820	5/1/2002	Be-7	805.70 ± 301.50	860.73 ± 164.80	833.22 ± 171.80
SL-2819, 2820	5/1/2002	Gr. Beta	5566.00 ± 124.00	5359.00 ± 122.00	5462.50 ± 86.98
SL-2819, 2820	5/1/2002	K-40	5524.00 ± 632.90	5277.50 ± 431.40	5400.75 ± 382.97
SL-2840, 2841	5/1/2002	Be-7	1010.00 ± 352.10	872.95 ± 181.70	941.48 ± 198.11
SL-2840, 2841	5/1/2002	Gr. Beta	4399.00 ± 221.80	4593.00 ± 276.00	4496.00 ± 177.04
SL-2840, 2841	5/1/2002	K-40	2422.80 ± 352.10	2254.10 ± 371.40	2338.45 ± 255.89
MI-2971, 2972	5/5/2002	K-40	1338.90 ± 83.44	1345.80 ± 100.90	1342.35 ± 65.47
MI-2971, 2972	5/5/2002	Sr-90	0.83 ± 0.47	1.65 ± 0.46	1.24 ± 0.33
DW-10603, 10604	5/6/2002	Gr. Alpha	6.30 ± 1.70	5.50 ± 1.60	5.90 ± 1.17
SS-3037, 3038	5/9/2002	K-40	11585.00 ± 749.00	11612.00 ± 787.00	11598.50 ± 543.22
MI-3124, 3125	5/13/2002	K-40	1329.50 ± 103.80	1373.00 ± 107.40	1351.25 ± 74.68
MI-3208, 3209	5/14/2002	K-40	1494.60 ± 158.40	1462.60 ± 182.50	1478.60 ± 120.83
LW-3250, 3251	5/15/2002	Gr. Beta	3.14 ± 0.55	3.28 ± 0.63	3.21 ± 0.42

TABLE IV-5. In-House "Duplicate" Samples

Lab Code	Date	Analysis	Concentration (pCi/L) ^a		
			First Result	Second Result	Averaged Result
CF-3292, 3293	5/20/2002	K-40	1.33 ± 0.99	1.14 ± 0.91	1.23 ± 0.67
MI-3376, 3377	5/26/2002	K-40	1333.30 ± 159.40	1090.70 ± 143.40	1212.00 ± 107.21
MI-3418, 3419	5/28/2002	K-40	1423.70 ± 121.30	1443.30 ± 164.30	1433.50 ± 102.11
SWT-3461, 3462	5/28/2002	Gr. Beta	2.65 ± 0.54	3.28 ± 0.60	2.97 ± 0.40
SO-3503, 3504	5/29/2002	Cs-137	0.17 ± 0.04	0.18 ± 0.05	0.18 ± 0.03
SO-3503, 3504	5/29/2002	Gr. Beta	27.72 ± 2.26	25.45 ± 2.03	26.58 ± 1.52
SO-3503, 3504	5/29/2002	K-40	20.24 ± 1.19	20.54 ± 1.24	20.39 ± 0.86
SL-3545, 3546	6/3/2002	Gr. Beta	4436.00 ± 90.00	4281.00 ± 89.00	4358.50 ± 63.29
SL-3545, 3546	6/3/2002	K-40	4684.20 ± 734.40	5242.50 ± 884.50	4963.35 ± 574.82
DW-10754, 10755	6/6/2002	Sr-90	0.50 ± 0.30	0.60 ± 0.30	0.55 ± 0.21
SW-3777, 3778	6/11/2002	Gr. Alpha	4.42 ± 1.50	2.97 ± 1.40	3.70 ± 1.02
SW-3777, 3778	6/11/2002	Gr. Beta	7.57 ± 1.22	6.83 ± 1.16	7.20 ± 0.84
MI-3798, 3799	6/11/2002	K-40	1433.40 ± 124.20	1401.20 ± 96.96	1417.30 ± 78.78
LW-3924, 3925	6/13/2002	Gr. Beta	3.05 ± 0.59	3.38 ± 0.72	3.21 ± 0.46
MI-3966, 3967	6/18/2002	K-40	1245.20 ± 109.20	1340.20 ± 121.90	1292.70 ± 81.83
MI-3966, 3967	6/18/2002	Sr-90	2.38 ± 0.51	2.63 ± 0.52	2.51 ± 0.36
MI-3987, 3988	6/19/2002	Sr-90	0.98 ± 0.35	0.97 ± 0.35	0.98 ± 0.25
MI-4095, 4096	6/25/2002	K-40	1256.10 ± 138.20	1199.00 ± 128.30	1227.55 ± 94.29
SWU-4221, 4222	6/25/2002	Gr. Beta	6.89 ± 1.97	5.38 ± 1.93	6.13 ± 1.38
LW-4179, 4180	6/27/2002	Gr. Beta	2.37 ± 0.58	2.00 ± 0.62	2.19 ± 0.42
G-4329, 4330	7/1/2002	Be-7	1394.80 ± 538.40	1098.10 ± 437.40	1246.45 ± 346.84
G-4329, 4330	7/1/2002	Gr. Beta	8.10 ± 0.27	8.00 ± 0.25	8.05 ± 0.18
G-4329, 4330	7/1/2002	K-40	7758.20 ± 1100.00	8399.80 ± 929.30	8079.00 ± 720.00
SL-4337, 4338	7/1/2002	Be-7	1480.90 ± 223.80	1726.40 ± 552.60	1603.65 ± 298.10
SL-4337, 4338	7/1/2002	Cs-137	32.30 ± 14.70	50.97 ± 27.10	41.64 ± 15.42
SL-4337, 4338	7/1/2002	Gr. Beta	5262.40 ± 522.10	5432.40 ± 540.00	5347.40 ± 375.56
SL-4337, 4338	7/1/2002	K-40	2249.00 ± 381.90	2989.90 ± 509.60	2619.45 ± 318.41
AP-4864, 4865	7/1/2002	Be-7	0.085 ± 0.009	0.085 ± 0.006	0.085 ± 0.006
MI-4359, 4360	7/2/2002	K-40	1390.10 ± 168.30	1567.40 ± 194.30	1478.75 ± 128.53
AP-4569, 4570	7/2/2002	Be-7	0.068 ± 0.016	0.086 ± 0.018	0.077 ± 0.012
AP-4843, 4844	7/2/2002	Be-7	0.077 ± 0.016	0.090 ± 0.020	0.084 ± 0.013
AP-4789, 4790	7/3/2002	Be-7	0.080 ± 0.013	0.078 ± 0.015	0.079 ± 0.010
SWU-4810, 4811	7/3/2002	Gr. Beta	2.40 ± 0.84	2.47 ± 0.88	2.43 ± 0.61
MI-4548, 4549	7/9/2002	K-40	1511.80 ± 127.00	1446.80 ± 101.80	1479.30 ± 81.38
DW-4737, 4738	7/12/2002	I-131	0.52 ± 0.20	0.49 ± 0.29	0.51 ± 0.18
MI-4632, 4633	7/15/2002	K-40	1198.40 ± 114.10	1371.30 ± 146.90	1284.85 ± 93.00
MI-5054, 5055	7/30/2002	K-40	1428.80 ± 105.60	1344.30 ± 106.40	1386.55 ± 74.95
G-5075, 5076	7/30/2002	Gr. Beta	7.11 ± 0.07	6.99 ± 0.07	7.05 ± 0.05
SWU-5124, 5125	7/30/2002	Gr. Beta	1.75 ± 0.84	1.90 ± 0.78	1.82 ± 0.57
G-5151, 5152	7/31/2002	Be-7	1.82 ± 0.30	2.05 ± 0.32	1.93 ± 0.22
G-5151, 5152	7/31/2002	K-40	5.13 ± 0.66	5.72 ± 0.70	5.42 ± 0.48
MI-5103, 5104	8/2/2002	K-40	1415.90 ± 70.57	1423.80 ± 129.20	1419.85 ± 73.61
LW-5434, 5435	8/5/2002	Gr. Beta	2.77 ± 0.35	2.26 ± 0.35	2.52 ± 0.25
MI-5215, 5216	8/7/2002	K-40	1361.10 ± 111.90	1358.30 ± 115.80	1359.70 ± 80.52

TABLE IV-5. In-House "Duplicate" Samples

Lab Code	Date	Analysis	Concentration (pCi/L) ^a		Averaged Result
			First Result	Second Result	
MI-5355, 5356	8/13/2002	K-40	1405.00 ± 165.80	1549.30 ± 114.40	1477.15 ± 100.72
F-5413, 5414	8/15/2002	Gr. Beta	2.37 ± 0.10	2.55 ± 0.10	2.46 ± 0.07
F-5413, 5414	8/15/2002	K-40	1.47 ± 0.32	1.73 ± 0.43	1.60 ± 0.27
MI-5603, 5604	8/26/2002	I-131	0.64 ± 0.34	0.52 ± 0.36	0.58 ± 0.25
MI-5603, 5604	8/26/2002	K-40	1353.60 ± 83.13	1261.40 ± 117.80	1307.50 ± 72.09
MI-5578, 5579	8/27/2002	K-40	1301.50 ± 161.70	1381.60 ± 111.20	1341.55 ± 98.12
VE-5682, 5683	8/28/2002	Be-7	0.29 ± 0.10	0.25 ± 0.11	0.27 ± 0.08
VE-5682, 5683	8/28/2002	Gr. Beta	3.79 ± 0.08	3.80 ± 0.08	3.79 ± 0.06
VE-5682, 5683	8/28/2002	K-40	3.06 ± 0.29	3.31 ± 0.42	3.18 ± 0.25
WW-6188, 6189	8/31/2002	Gr. Beta	2.70 ± 0.57	2.30 ± 0.57	2.50 ± 0.41
SL-5724, 5725	9/3/2002	Be-7	0.92 ± 0.19	1.04 ± 0.23	0.98 ± 0.15
SL-5724, 5725	9/3/2002	Cs-137	0.05 ± 0.02	0.05 ± 0.02	0.05 ± 0.01
SL-5724, 5725	9/3/2002	K-40	2.09 ± 0.31	2.28 ± 0.48	2.19 ± 0.29
MI-5877, 5878	9/9/2002	K-40	1340.70 ± 165.00	1168.50 ± 172.50	1254.60 ± 119.35
MI-6157, 6158	9/19/2002	K-40	1372.10 ± 115.10	1136.50 ± 222.70	1254.30 ± 125.34
MI-6258, 6259	9/24/2002	K-40	1328.60 ± 201.00	1312.60 ± 118.60	1320.60 ± 116.69
LW-6278, 6279	9/30/2002	Gr. Beta	2.15 ± 0.51	1.70 ± 0.50	1.93 ± 0.36
MI-6385, 6386	10/1/2002	K-40	1297.10 ± 168.90	1310.10 ± 128.30	1303.60 ± 106.05
BS-6453, 6454	10/1/2002	Cs-137	0.43 ± 0.03	0.44 ± 0.03	0.44 ± 0.02
BS-6453, 6454	10/1/2002	K-40	16.50 ± 0.51	16.80 ± 0.61	16.65 ± 0.40
SO-6478, 6479	10/1/2002	Cs-137	0.074 ± 0.016	0.070 ± 0.016	0.072 ± 0.011
SO-6478, 6479	10/1/2002	Gr. Alpha	8.01 ± 4.36	7.55 ± 4.57	7.78 ± 3.16
SO-6478, 6479	10/1/2002	Gr. Beta	30.41 ± 4.07	33.04 ± 4.28	31.73 ± 2.95
SO-6478, 6479	10/1/2002	K-40	19.82 ± 0.53	20.39 ± 0.58	20.10 ± 0.39
SO-6478, 6479	10/1/2002	Sr-90	0.087 ± 0.017	0.094 ± 0.020	0.091 ± 0.013
AP-6641, 6642	10/1/2002	Be-7	0.070 ± 0.016	0.080 ± 0.015	0.075 ± 0.011
MI-6544, 6545	10/2/2002	K-40	1331.60 ± 125.20	1326.50 ± 171.60	1329.05 ± 106.21
AP-6857, 6858	10/3/2002	Be-7	0.062 ± 0.015	0.071 ± 0.015	0.066 ± 0.010
AP-6857, 6858	10/3/2002	Be-7	0.062 ± 0.015	0.071 ± 0.015	0.066 ± 0.010
AP-6857, 6858	10/3/2002	Be-7	0.062 ± 0.015	0.071 ± 0.015	0.066 ± 0.010
BS-6620, 6621	10/7/2002	Co-60	0.090 ± 0.020	0.11 ± 0.02	0.10 ± 0.01
BS-6620, 6621	10/7/2002	Cs-137	0.62 ± 0.04	0.63 ± 0.03	0.62 ± 0.02
BS-6620, 6621	10/7/2002	K-40	11.38 ± 0.48	10.78 ± 0.52	11.08 ± 0.35
MI-6651, 6652	10/8/2002	K-40	1565.50 ± 141.00	1640.60 ± 189.20	1603.05 ± 117.98
G-6760, 6761	10/9/2002	Be-7	2.17 ± 0.49	2.31 ± 0.34	2.24 ± 0.30
G-6760, 6761	10/9/2002	K-40	6.24 ± 1.00	6.61 ± 0.60	6.42 ± 0.58
SWU-7054, 7055	10/10/2002	Gr. Beta	3.09 ± 0.57	2.06 ± 0.52	2.57 ± 0.39
U-7126, 7127	10/11/2002	Gr. Beta	2.61 ± 1.24	2.61 ± 1.08	2.61 ± 0.82
XW-7768, 7769	10/14/2002	Cs-137	2.25 ± 0.25	2.09 ± 0.18	2.17 ± 0.15
XW-7768, 7769	10/14/2002	H-3	2.63 ± 0.10	2.64 ± 0.10	2.64 ± 0.07
F-7148, 7149	10/15/2002	K-40	2.57 ± 0.28	2.98 ± 0.44	2.77 ± 0.26
BS-7337, 7338	10/23/2002	Co-60	0.083 ± 0.025	0.073 ± 0.031	0.078 ± 0.020
BS-7337, 7338	10/23/2002	Cs-137	0.082 ± 0.019	0.11 ± 0.04	0.10 ± 0.02
BS-7337, 7338	10/23/2002	Gr. Beta	12.54 ± 2.34	12.99 ± 2.22	12.77 ± 1.61
SO-7407, 7408	10/29/2002	Cs-137	0.14 ± 0.03	0.15 ± 0.03	0.15 ± 0.02
SO-7407, 7408	10/29/2002	Gr. Beta	16.73 ± 2.21	16.62 ± 2.27	16.67 ± 1.58
SO-7407, 7408	10/29/2002	K-40	12.05 ± 0.61	12.27 ± 0.81	12.16 ± 0.51

TABLE IV-5. In-House "Duplicate" Samples

Lab Code	Date	Analysis	Concentration (pCi/L) ^a		
			First Result	Second Result	Averaged Result
MI-7428, 7429	10/29/2002	K-40	1542.60 ± 213.00	1355.80 ± 185.70	1449.20 ± 141.29
pw-7621, 7622	10/30/2002	Gr. Beta	2.22 ± 0.92	2.08 ± 0.83	2.15 ± 0.62
TD-7653, 7654	10/31/2002	H-3	11122.00 ± 387.00	11259.00 ± 390.00	11190.50 ± 274.71
SW-7569, 7570	11/5/2002	Gr. Beta	15.90 ± 1.25	16.24 ± 1.27	16.07 ± 0.89
SW-7569, 7570	11/5/2002	K-40	14.79 ± 1.48	14.79 ± 1.48	14.79 ± 1.05
SO-8010, 8011	11/7/2002	Cs-137	0.11 ± 0.02	0.11 ± 0.03	0.11 ± 0.02
SO-8010, 8011	11/7/2002	K-40	6.91 ± 0.54	7.21 ± 0.54	7.06 ± 0.38
VE-7747, 7748	11/11/2002	Gr. Beta	3.59 ± 0.05	3.25 ± 0.05	3.42 ± 0.03
VE-7747, 7748	11/11/2002	K-40	3.17 ± 0.36	3.26 ± 0.46	3.22 ± 0.29
MI-7789, 7790	11/13/2002	K-40	1319.30 ± 167.60	1301.20 ± 140.70	1310.25 ± 109.41
DW-8082, 8083	11/29/2002	I-131	0.83 ± 0.24	0.98 ± 0.22	0.90 ± 0.16
SW-8054, 8055	12/2/2002	Gr. Beta	2.60 ± 0.46	2.21 ± 0.39	2.41 ± 0.30
SW-8054, 8055	12/2/2002	K-40	1.44 ± 0.14	1.43 ± 0.14	1.44 ± 0.10
MI-8105, 8106	12/4/2002	K-40	1300.60 ± 111.30	1315.40 ± 108.90	1308.00 ± 77.86
TD-8298, 8299	12/5/2002	H-3	355.00 ± 94.00	469.00 ± 99.00	412.00 ± 68.26
MI-8396, 8397	12/17/2002	K-40	1409.20 ± 117.30	1449.60 ± 108.60	1429.40 ± 79.93
SWT-8654, 8655	12/30/2002	Gr. Beta	1.63 ± 0.50	1.40 ± 0.47	1.51 ± 0.34
AP-8783, 8784	12/31/2002	Be-7	0.044 ± 0.009	0.042 ± 0.008	0.043 ± 0.006

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

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

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

Lab Code	Type	Date	Analysis	Concentration ^b		
				Laboratory result	Known Activity	Control Limits ^c
STW-939	water	12/01/01	Am-241	1.25 ± 0.0	1.19 ± 0.0	0.83 - 1.6
STW-939	water	12/01/01	Co-57	138.9 ± 0.5	143 ± 14.3	100.1 - 185.9
STW-939	water	12/01/01	Co-60	139.1 ± 0.5	141 ± 14.1	98.7 - 183.3
STW-939	water	12/01/01	Cs-134	25.16 ± 0.2	28.5 ± 0.3	19.95 - 37.1
STW-939	water	12/01/01	Cs-137	279.96 ± 0.9	286 ± 28.6	200.2 - 371.8
STW-939 ^d	water	12/01/01	Fe-55	19.68 ± 23.2	9.2 ± 0.9	6.44 - 12.0
STW-939	water	12/01/01	Mn-54	253.64 ± 0.9	246 ± 0.2	172.2 - 319.8
STW-939	water	12/01/01	Ni-63	65.88 ± 1.9	88.3 ± 8.8	61.81 - 114.8
STW-939 ^e	water	12/01/01	Pu-238	0.060 ± 0.01	0.0 ± 0.0	-
STW-939	water	12/01/01	Pu-239/40	2.79 ± 0.0	2.99 ± 0.3	2.09 - 3.9
STW-939	water	12/01/01	Sr-90	4.88 ± 0.3	4.8 ± 0.5	3.36 - 6.2
STW-939	water	12/01/01	U-233/4	0.89 ± 0.0	0.98 ± 0.1	0.69 - 1.3
STW-939	water	12/01/01	U-238	6.75 ± 0.0	7.8 ± 0.8	5.46 - 10.1
STW-939	water	12/01/01	Zn-65	70.6 ± 1.1	67.3 ± 6.7	47.11 - 87.5
STSO-955	soil	10/16/02	Am-241	40.54 ± 2.7	43.5 ± 4.4	30.45 - 56.6
STSO-955	soil	10/16/02	Co-57	210.58 ± 2.0	246 ± 24.6	172.2 - 319.8
STSO-955	soil	10/16/02	Co-60	84.38 ± 0.9	87.5 ± 8.8	61.25 - 113.8
STSO-955	soil	10/16/02	Cs-134	692.6 ± 2.1	862 ± 86.0	603.4 - 1120.6
STSO-955	soil	10/16/02	Cs-137	96.98 ± 1.7	111 ± 11.1	77.7 - 144.3
STSO-955	soil	10/16/02	Fe-55	1714.6 ± 299.6	1870 ± 187.0	1309 - 2431.0
STSO-955	soil	10/16/02	Mn-54	509.74 ± 3.4	546 ± 54.6	382.2 - 709.8
STSO-955	soil	10/16/02	Ni-63	890.6 ± 22.4	1180 ± 118.0	826 - 1534.0
STSO-955	soil	10/16/02	Pu-238	34.04 ± 6.0	33.3 ± 3.3	23.31 - 43.3
STSO-955	soil	10/16/02	Pu-239/40	68.7 ± 3.7	72.9 ± 7.3	51.03 - 94.8
STSO-955 ^e	soil	10/16/02	Sr-90	1.5 ± 3.0	0.0 ± 0.0	-
STSO-955	soil	10/16/02	U-233/4	166.33 ± 3.8	229 ± 22.9	160.3 - 297.7
STSO-955	soil	10/16/02	U-238	169.76 ± 3.8	220 ± 22.0	154 - 286.0
STSO-955	soil	10/16/02	Zn-65	783.59 ± 6.4	809 ± 80.9	566.3 - 1051.7

^a Results obtained by Environmental, Inc., Midwest Laboratory as a participant in the Department of Energy's Mixed Analyte Performance Evaluation Program, Idaho Operations office, Idaho Falls, Idaho

^b All results are in Bq/kg or Bq/L as requested by the Department of Energy.

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

^d Known activity below the laboratory LLD. The sample was recounted for 2000 minutes; result : 11.52 ± 5.55 Bq /L

^e Included in the testing series as a "false positive". No activity expected.

TABLE IV-7. Environmental Measurements Laboratory Quality Assessment Program (EML)

Lab Code	Type	Date	Analysis	Concentration ^a		
				Laboratory results	EML Result ^b	Control Limits ^c
STW-945	Water	03/01/02	Am-241	1.68 ± 0.14	1.47	0.79 - 1.41
STW-945	Water	03/01/02	Co-60	349.20 ± 2.60	347.33	0.80 - 1.20
STW-945	Water	03/01/02	Cs-134	3.40 ± 0.60	3.36	0.80 - 1.30
STW-945	Water	03/01/02	Cs-137	57.20 ± 1.70	56.07	0.80 - 1.22
STW-945	Water	03/01/02	Pu-238	0.45 ± 0.11	0.49	0.74 - 1.20
STW-945	Water	03/01/02	Pu-239/40	4.47 ± 0.28	4.22	0.79 - 1.20
STW-945	Water	03/01/02	Sr-90	7.40 ± 1.30	7.58	0.69 - 1.34
STW-945	Water	03/01/02	Uranium	3.27 ± 0.43	2.84	0.75 - 1.33
STW-946	Water	03/01/02	Gr. Alpha	265.40 ± 7.70	375.00	0.58 - 1.29
STW-946	Water	03/01/02	Gr. Beta	930.60 ± 12.00	1030.00	0.61 - 1.43
STW-946	Water	03/01/02	H-3	226.30 ± 32.70	283.70	0.78 - 2.45
STSO-947	Soil	03/01/02	Ac-228	55.00 ± 5.50	51.17	0.80 - 1.38
STSO-947	Soil	03/01/02	Am-241	8.30 ± 3.30	10.93	0.65 - 2.28
STSO-947	Soil	03/01/02	Bi-212	49.20 ± 12.40	53.43	0.50 - 1.34
STSO-947	Soil	03/01/02	Bi-214	46.60 ± 3.10	53.93	0.78 - 1.42
STSO-947	Soil	03/01/02	Cs-137	1401.60 ± 9.10	1326.67	0.80 - 1.25
STSO-947	Soil	03/01/02	K-40	613.10 ± 28.10	621.67	0.80 - 1.32
STSO-947	Soil	03/01/02	Pb-212	51.60 ± 2.60	51.10	0.78 - 1.32
STSO-947	Soil	03/01/02	Pb-214	52.00 ± 3.60	54.37	0.76 - 1.46
STSO-947	Soil	03/01/02	Pu-239/40	14.70 ± 3.50	19.10	0.71 - 1.30
STSO-947	Soil	03/01/02	Sr-90	52.10 ± 6.30	53.76	0.67 - 2.90
STSO-947	Soil	03/01/02	Th-234	122.40 ± 6.30	89.30	0.63 - 2.35
STSO-947	Soil	03/01/02	Uranium	143.40 ± 9.40	194.77	0.71 - 1.32
STVE-948	Vegetation	03/01/02	Am-241	3.10 ± 2.20	2.23	0.73 - 2.02
STVE-948	Vegetation	03/01/02	Cm-244	0.90 ± 0.80	1.32	0.61 - 1.59
STVE-948	Vegetation	03/01/02	Co-60	13.50 ± 2.10	11.23	0.80 - 1.44
STVE-948	Vegetation	03/01/02	Cs-137	350.40 ± 6.30	313.67	0.80 - 1.31
STVE-948	Vegetation	03/01/02	K-40	940.80 ± 45.60	864.33	0.79 - 1.39
STVE-948 ^d	Vegetation	03/01/02	Pu-239/40	16.90 ± 0.70	3.54	0.69 - 1.31
STVE-948	Vegetation	03/01/02	Sr-90	543.40 ± 24.90	586.28	0.55 - 1.21
STAP-949	Air Filter	03/01/02	Am-241	0.09 ± 0.05	0.09	0.70 - 2.34
STAP-949	Air Filter	03/01/02	Co-60	30.10 ± 0.30	30.52	0.80 - 1.26
STAP-949	Air Filter	03/01/02	Cs-137	29.90 ± 0.30	28.23	0.80 - 1.32
STAP-949	Air Filter	03/01/02	Mn-54	40.40 ± 0.40	38.53	0.80 - 1.35
STAP-949	Air Filter	03/01/02	Pu-238	0.05 ± 0.02	0.06	0.67 - 1.33
STAP-949	Air Filter	03/01/02	Pu-239/40	0.15 ± 0.02	0.19	0.73 - 1.26
STAP-949	Air Filter	03/01/02	Sr-90	3.40 ± 0.40	4.83	0.53 - 1.84
STAP-949	Air Filter	03/01/02	Uranium	0.80 ± 0.20	0.61	0.79 - 2.10
STAP-950	Air Filter	03/01/02	Gr. Alpha	0.43 ± 0.04	0.53	0.73 - 1.43
STAP-950	Air Filter	03/01/02	Gr. Beta	1.34 ± 0.05	1.30	0.76 - 1.36
STW-959	Water	09/01/02	Am-241	3.00 ± 0.10	3.04	0.79 - 1.41
STW-959	Water	09/01/02	Co-60	258.40 ± 2.30	268.67	0.80 - 1.20
STW-959	Water	09/01/02	Cs-134	50.80 ± 3.30	60.20	0.80 - 1.30
STW-959	Water	09/01/02	Cs-137	80.10 ± 0.30	81.43	0.80 - 1.22
STW-959	Water	09/01/02	Cs-137	80.10 ± 0.30	81.43	0.80 - 1.22
STW-959	Water	09/01/02	Am-241	3.00 ± 0.10	3.04	0.79 - 1.41

TABLE IV-7. Environmental Measurements Laboratory Quality Assessment Program (EML)^a.

Lab Code	Type	Date	Analysis	Concentration ^b		
				Laboratory results	EML Result ^c	Control Limits ^d
STW-959	Water	09/01/02	Am-241	3.00 ± 0.10	3.04	0.79 - 1.41
STW-959	Water	09/01/02	Co-60	258.40 ± 2.30	268.67	0.80 - 1.20
STW-959	Water	09/01/02	Cs-134	50.80 ± 3.30	60.20	0.80 - 1.30
STW-959	Water	09/01/02	Cs-137	80.10 ± 0.30	81.43	0.80 - 1.22
STW-959	Water	09/01/02	H-3	271.90 ± 20.90	227.30	0.78 - 2.45
STW-959	Water	09/01/02	Pu-238	4.40 ± 0.20	4.33	0.74 - 1.20
STW-959	Water	09/01/02	Pu-239/40	2.10 ± 0.10	2.07	0.79 - 1.20
STW-959	Water	09/01/02	Sr-90	9.70 ± 0.20	8.69	0.69 - 1.34
STW-959	Water	09/01/02	Uranium	5.60 ± 0.10	6.84	0.75 - 1.33
STW-960	Water	09/01/02	Gr. Alpha	204.90 ± 3.20	210.00	0.58 - 1.29
STW-960	Water	09/01/02	Gr. Beta	852.00 ± 26.50	900.00	0.61 - 1.43
STSO-961	Soil	09/01/02	Ac-228	47.60 ± 1.90	42.30	0.80 - 1.38
STSO-961	Soil	09/01/02	Am-241	7.80 ± 1.40	6.77	0.65 - 2.28
STSO-961	Soil	09/01/02	Bi-212	45.60 ± 1.70	45.93	0.50 - 1.34
STSO-961 ^e	Soil	09/01/02	Bi-214	48.80 ± 4.90	33.63	0.78 - 1.42
STSO-961	Soil	09/01/02	Cs-137	819.60 ± 16.60	829.33	0.80 - 1.25
STSO-961	Soil	09/01/02	K-40	705.30 ± 31.40	637.67	0.80 - 1.32
STSO-961	Soil	09/01/02	Pb-212	48.60 ± 3.40	43.43	0.78 - 1.32
STSO-961	Soil	09/01/02	Pb-214	51.10 ± 5.10	35.20	0.76 - 1.46
STSO-961 ^f	Soil	09/01/02	Pu-239/40	20.20 ± 0.80	12.90	0.71 - 1.30
STSO-961	Soil	09/01/02	Sr-90	38.50 ± 0.10	41.16	0.67 - 2.90
STSO-961 ^g	Soil	09/01/02	Uranium	58.90 ± 0.70	87.21	0.71 - 1.32
STVE-962	Vegetation	09/01/02	Am-241	2.10 ± 0.30	2.25	0.73 - 2.02
STVE-962	Vegetation	09/01/02	Cm-244	1.00 ± 0.30	1.25	0.61 - 1.59
STVE-962	Vegetation	09/01/02	Co-60	11.80 ± 1.50	9.66	0.80 - 1.44
STVE-962	Vegetation	09/01/02	Cs-137	340.30 ± 16.80	300.67	0.80 - 1.31
STVE-962	Vegetation	09/01/02	K-40	1646.00 ± 74.40	1480.00	0.79 - 1.39
STVE-962	Vegetation	09/01/02	Pu-239/40	3.00 ± 0.30	3.43	0.69 - 1.31
STVE-962	Vegetation	09/01/02	Sr-90	345.60 ± 97.80	476.26	0.55 - 1.21
STAP-963 ^h	Air Filter	09/01/02	Am-241	0.20 ± 0.01	0.19	0.70 - 2.34
STAP-963	Air Filter	09/01/02	Co-60	24.90 ± 0.60	23.00	0.80 - 1.26
STAP-963	Air Filter	09/01/02	Cs-137	38.00 ± 1.30	32.50	0.80 - 1.32
STAP-963	Air Filter	09/01/02	Mn-54	60.80 ± 1.90	52.20	0.80 - 1.35
STAP-963 ^h	Air Filter	09/01/02	Pu-238	0.11 ± 0.02	0.12	0.67 - 1.33
STAP-963 ^h	Air Filter	09/01/02	Pu-239/40	0.21 ± 0.01	0.21	0.73 - 1.26
STAP-963	Air Filter	09/01/02	Sr-90	5.20 ± 0.20	5.56	0.53 - 1.84
STAP-963 ^h	Air Filter	09/01/02	Uranium	0.41 ± 0.04	0.47	0.79 - 2.10
STAP-964	Air Filter	09/01/02	Gr. Alpha	0.40 ± 0.10	0.29	0.73 - 1.43
STAP-964	Air Filter	09/01/02	Gr. Beta	0.80 ± 0.10	0.87	0.76 - 1.36

^a Results are reported in Bq/L with the following exceptions: Air Filters (Bq/Filter), Soil and Vegetation (Bq/kg).

^b The EML result listed is the mean of replicate determinations for each nuclide ± the standard error of the mean.

^c Control limits are reported by EML as the ratio of Reported Value / EML value.

^d An error was found in the conversion from pCi/g to Bq/kg. Corrected result : 2.84 ± 0.59 Bq/kg.

^e Naturally-occurring radium daughters are present in the shield background, and a probable cause of the higher bias seen for isotopes of lead and bismuth.

^f Reporting error. The average result of the triplicate analyses was 14.1 ± 5.7 Bq/kg.

^g The analysis was repeated in duplicate; result of reanalysis, 87.05 ± 7.64 Bq/kg.

^h STAP-963, Calculations for the transuranics analyses (Am-241, Uranium, Pu-238, -239/40) were not converted to Bq/total filter.

The data listed is the result of recalculation.