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April 30, 2001

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

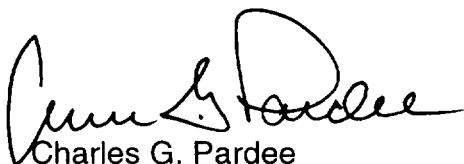
LaSalle County Station, Units 1 and 2
Facility Operating License Nos. NPF-11 and NPF-18
NRC Docket Nos. 50-373 and 50-374

Subject: 2000 Radiological Environmental Operating Report

Enclosed are two copies of the 2000 Radiological Environmental Operating Report for Exelon Generation Company (EGC), LLC, LaSalle County Station, submitted in accordance with Technical Specification 6.6.A.3. This report contains the results of the Radiological Environmental and Meteorological Monitoring Programs. The Radioactive Effluent Release Report was submitted under separate cover.

Should you have any questions concerning this letter, please contact Mr. William Riffer, Regulatory Assurance Manager, at (815) 357-6761, extension 2383.

Respectfully,



Charles G. Pardee
Site Vice President
LaSalle County Station

Attachment

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

JE25

LASALLE COUNTY STATION
ANNUAL RADIOLOGICAL
ENVIRONMENTAL OPERATING
REPORT

2000

APRIL 2001

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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. Each reactor is designed to have a capacity of 1154 MW net. 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/Standards. 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 Technical Specification/Standards 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 $3.75\text{E-}02$ mrem for the year, where a shielding and occupancy factor of 0.7 is assumed. The assessment of radiation doses is performed in accordance with the ComEd Offsite Dose Calculation Manual (ODCM). The results of analysis confirm that the station is operating in compliance with 10CFR50 Appendix I, 10CFR20 and 40CFR190.

1.0 EFFLUENTS

1.1 Gaseous Effluents to the Atmosphere

Measured concentrations of noble gases, radioiodine, and particulate radioactivity released to the atmosphere during the year, are listed in Table 1.1-1. A total of $2.01\text{E}+03$ curies of fission and activation gases was released with a maximum quarterly average release rate of $9.88\text{E}+01$ $\mu\text{Ci/sec}$.

A total of $2.30\text{E}-02$ curies of I-131 was released during the year with a maximum quarterly average release rate of $1.16\text{E}-03$ $\mu\text{Ci/sec}$.

A total of $8.40\text{E}-03$ curies of beta-gamma emitters was released as airborne particulate matter with a maximum quarterly average release rate of $8.90\text{E}-04$ $\mu\text{Ci/sec}$. A total of $8.23\text{E}-06$ curies of alpha-emitting radionuclides was also released.

A total of $7.31\text{E}+01$ curies of tritium was released with a maximum quarterly average release rate of $3.53\text{E}+00$ $\mu\text{Ci/sec}$.

1.2 Liquids Released to Illinois River

A total of $1.73\text{E}+05$ liters of radioactive liquid waste (prior to dilution) containing $1.02\text{E}-02$ curies (excluding tritium, noble gases and alpha) were discharged from the station in the 4th quarter. These wastes were released at a maximum quarterly concentration of $8.02\text{E}-08$ $\mu\text{Ci/ml}$. A total of $2.38\text{E}-01$ curies of tritium were released in the 4th quarter at a maximum quarterly concentration of $1.88\text{E}-06$ $\mu\text{Ci/ml}$. Quarterly release totals of principal radionuclides in liquid effluents are given in Table 1.2-1.

2.0 SOLID RADIOACTIVE WASTE

Solid radioactive wastes were shipped by truck to Barnwell, South Carolina; Oak Ridge, Tennessee and Richland, Washington. For further detail, refer to the LaSalle 2000 Effluent Report.

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 $3.75\text{E-}02$ 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 $2.72\text{E-}02$ mrem. (Table 3.4-1).

The maximum gamma air dose was $4.96\text{E-}02$ mrad (Table 3.1-1) and $7.34\text{E-}02$ 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/cm^2 and an occupancy factor of 1.0 is used. The skin dose from beta and gamma radiation for the year was $3.95\text{E-}02$ mrem (Table 3.1-1) and $3.20\text{E-}02$ mrem (Table 3.4-1) based on concurrent meteorological data. The maximum offsite beta air dose for the year was $1.61\text{E-}03$ mrad (Table 3.1-1) and $5.55\text{E-}03$ 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 $5.73\text{E-}04$ pCi/ m^3 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 6.05E-02 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 4.01E-06 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 GI tracts, thyroid, bone, skin; specific parameters for use in the equations are given in the ComEd Offsite Dose Calculation Manual. The maximum whole body dose was 4.84E-04 mrem (adult) and organ dose was 7.06E-04 mrem (teenager/liver) for the year (Table 3.2-1).

3.3 Assessment of Dose to Member of Public

During the period January to December, 2000, 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 RETS limits on dose or dose commitment to an individual due to radioactive materials in liquid effluents from each reactor unit (1.5 mrem to the whole body or 5 mrem to any organ during any calendar quarter; 3 mrem to the whole body or 10 mrem to any organ during any calendar year).
- The RETS limits on air dose in noble gases released in gaseous effluents to a member of the public from each reactor unit (5 mrad for gamma radiation or 10 mrad for beta radiation during any calendar quarter; 10 mrad for gamma radiation or 20 mrad for beta radiation during any calendar year).

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

- 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).

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 99.8% during 2000 (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 $\text{CaSO}_4:\text{Tm}$ thermoluminescent dosimeters (TLDs). Each location normally consists of 2 TLD sets. The quarterly average external radiation dose for the year was 18.6 mR at the indicator locations and 16.2 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 17.9 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) and 1999 (17.0 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 0.058 pCi/m^3 and averaged 0.028 pCi/m^3 and were similar to levels measured in 1985 (0.025 pCi/m^3), 1986 (0.027

pCi/m³, 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/m³), 1988 (0.031 pCi/m³), 1989 (0.028 pCi/m³), 1990 (0.024 pCi/m³), 1991 (0.022 pCi/m³), 1992 (0.022 pCi/m³), 1993 (0.022 pCi/m³), 1994 (0.022 pCi/m³), 1995 (0.021 pCi/m³), 1996 (0.021 pCi/m³), 1997 (0.022 pCi/m³), 1998 (0.024 pCi/m³) and 1999 (0.027 pCi/m³).

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 5.8 pCi/L in the Illinois River at Seneca samples, with a range of 3.8-7.2 pCi/L. The Illinois River, Downstream sample averaged 5.5 pCi/L, with a range of 3.5-6.8 pCi/L.

Tritium activity in the quarterly upstream samples, Illinois River at Seneca, averaged 441 pCi/L with a maximum first quarter concentration of 550 pCi/L. In the Illinois River Downstream samples, tritium activity averaged 518 pCi/L with a maximum first quarter concentration of 796 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 concentrations were below detection limits (0.15 pCi/g dry weight) in all samples. Cs-137 concentrations were below detection limits (0.18 pCi/g dry weight) in all samples except L-41 (Illinois River, Downstream) in May, which had an activity of 0.21 pCi/gram dry weight. There are no adverse effects expected to the environment.

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 gamma-emitting nuclides. In addition, broad leaf vegetables were analyzed for I-131. 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

Milk location L-42 (Biros Farm) replaced location L-16 (Lowery Dairy) in February of 2000.

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 report for the period January - December 1993.

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 2, 2000. The nearest livestock census was conducted by A. Lewis on August 2, 2000. The results of each census are presented on pages 33 and 34 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 2, 2000.

Results of the nearest residence census are presented on page 35 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 2000.

LASALLE

APPENDIX I
DATA TABLES AND FIGURES

Table 1.1-1

LASALLE COUNTY NUCLEAR POWER STATION
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2000)
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 %
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A. Fission and Activation Gas Releases

1. Total Release Activity	Ci	3.65E+02	7.76E+02	4.71E+02	3.99E+02	35%
2. Average Release Rate	uCi/sec	4.64E+01	9.88E+01	5.92E+01	5.02E+01	
3. Percent of Technical Specification Limit	%	*	*	*	*	

B. Iodine Releases

1. Total I-131 Activity	Ci	1.99E-03	3.59E-03	9.25E-03	8.17E-03	35%
2. Average Release Rate	uCi/sec	2.53E-04	4.56E-04	1.16E-03	1.03E-03	
3. Percent of Technical Specification Limit	%	*	*	*	*	

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

1. Gross Activity	Ci	3.23E-04	4.63E-04	7.07E-03	5.44E-04	33%
2. Average Release Rate	uCi/sec	4.11E-05	5.89E-05	8.90E-04	6.85E-05	
3. Percent of Technical Specification Limit	%	*	*	*	*	
3. Gross Alpha Activity (estimate)	Ci	4.66E-06	2.48E-06	1.09E-06	<1.00E-11	

D. Tritium Releases

1. Total Release Activity	Ci	8.99E+00	1.93E+01	1.68E+01	2.80E+01	21%
2. Average Release Rate	uCi/sec	1.14E+00	2.45E+00	2.12E+00	3.53E+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 (2000)
LIQUID RELEASES
UNIT 1
SUMMATION OF ALL LIQUID RELEASES

						Estimated
Units	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	Total Error %	
A. Fission and Activation Products						
1. Total Activity Released	Ci	<LLD	<LLD	<LLD	5.08E-03	10%
2. Average Concentration Released	uCi/ml	<LLD	<LLD	<LLD	8.02E-08	
3. Percent of Applicable Limit	%	*	*	*	*	
B. Tritium						
1. Total Activity Released	Ci	<LLD	<LLD	<LLD	1.19E-01	12%
2. Average Concentration Released	uCi/ml	<LLD	<LLD	<LLD	1.88E-06	
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	<1.00E-07	<1.00E-07	<1.00E-07	<1.00E-07	N/A
2. Average Concentration Released	uCi/ml	<1.00E-07	<1.00E-07	<1.00E-07	<1.00E-07	
3. Percent of Applicable Limit	%	*	*	*	*	
E. Volume of Liquid Waste to Discharge						
liters	0.00E+00	0.00E+00	0.00E+00	8.63E+04	2%	
F. Volume of Dilution Water						
liters	0.00E+00	0.00E+00	0.00E+00	6.32E+07	5%	

*** 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 (continued)

LASALLE COUNTY NUCLEAR POWER STATION
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2000)
LIQUID RELEASES
UNIT 2
SUMMATION OF ALL LIQUID RELEASES

						Estimated
	Units	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	Total Error %
A. Fission and Activation Products						
1. Total Activity Released	Ci	<LLD	<LLD	<LLD	5.08E-03	10%
2. Average Concentration Released	uCi/ml	<LLD	<LLD	<LLD	8.02E-08	
3. Percent of Applicable Limit	%	*	*	*	*	
B. Tritium						
1. Total Activity Released	Ci	<LLD	<LLD	<LLD	1.19E-01	12%
2. Average Concentration Released	uCi/ml	<LLD	<LLD	<LLD	1.88E-06	
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	<1.00E-07	<1.00E-07	<1.00E-07	<1.00E-07	N/A
2. Average Concentration Released	uCi/ml	<1.00E-07	<1.00E-07	<1.00E-07	<1.00E-07	
3. Percent of Applicable Limit	%	*	*	*	*	
E. Volume of Liquid Waste to Discharge						
	liters	0.00E+00	0.00E+00	0.00E+00	8.63E+04	2%
F. Volume of Dilution Water						
	liters	0.00E+00	0.00E+00	0.00E+00	6.32E+07	5%

*** 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 LaSalle County Station 2000 Annual Effluent Report.

Figure 3.1-1

Estimated Cumulative Gamma Dose (in mrem)
from the LaSalle Station for the period
January-December 2000

Isopleth Labels

Small figure - multiply by 10^{-4}

Large figure - multiply by 10^{-4}

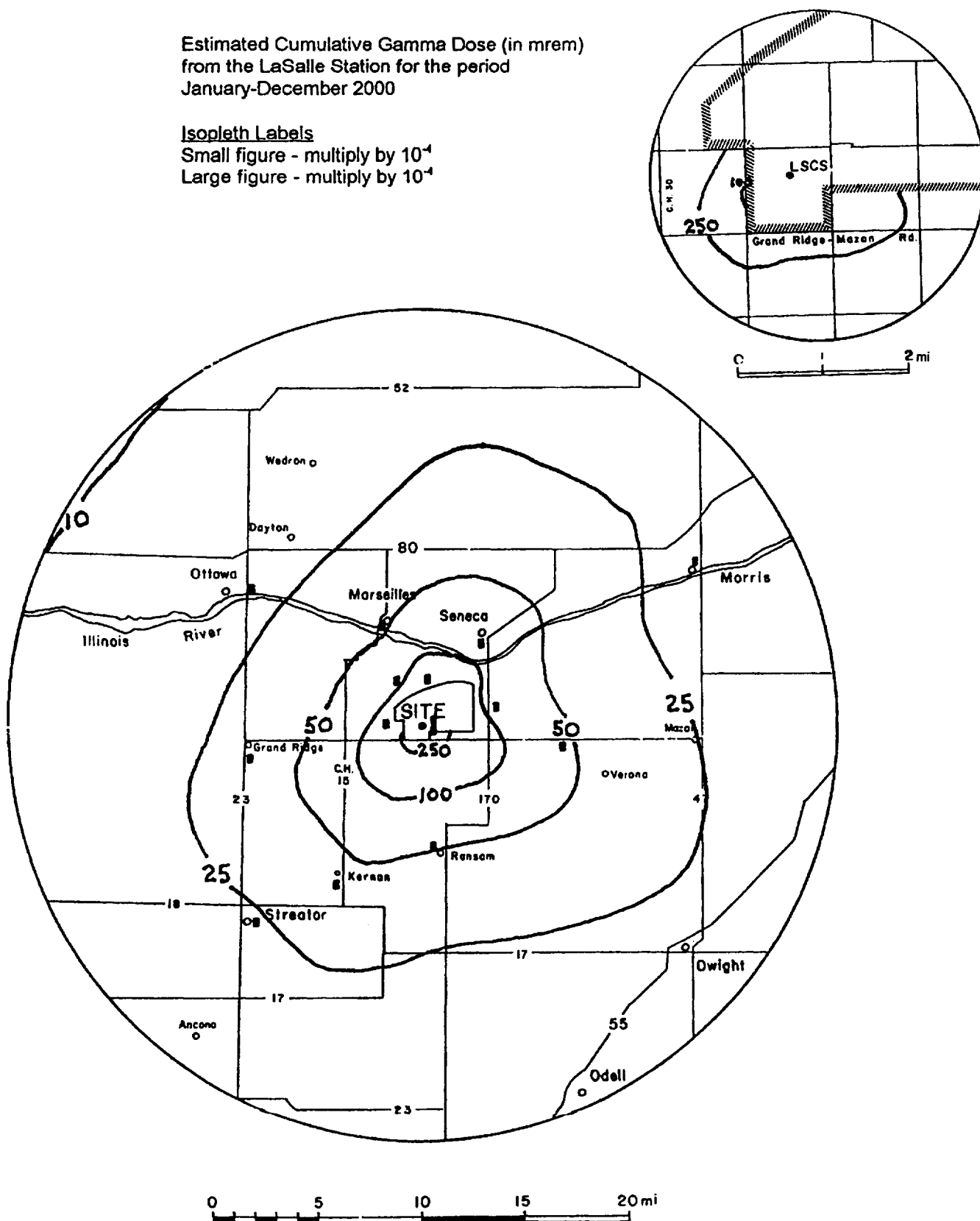


Figure 3.1-2

Estimated Total Concentrations (in pCi/m³)
of Noble Gases from the LaSalle Station
for the period January-December 2000

Isopleth Labels

Small figure - multiply by 10⁻²

Large figure - multiply by 10⁻²

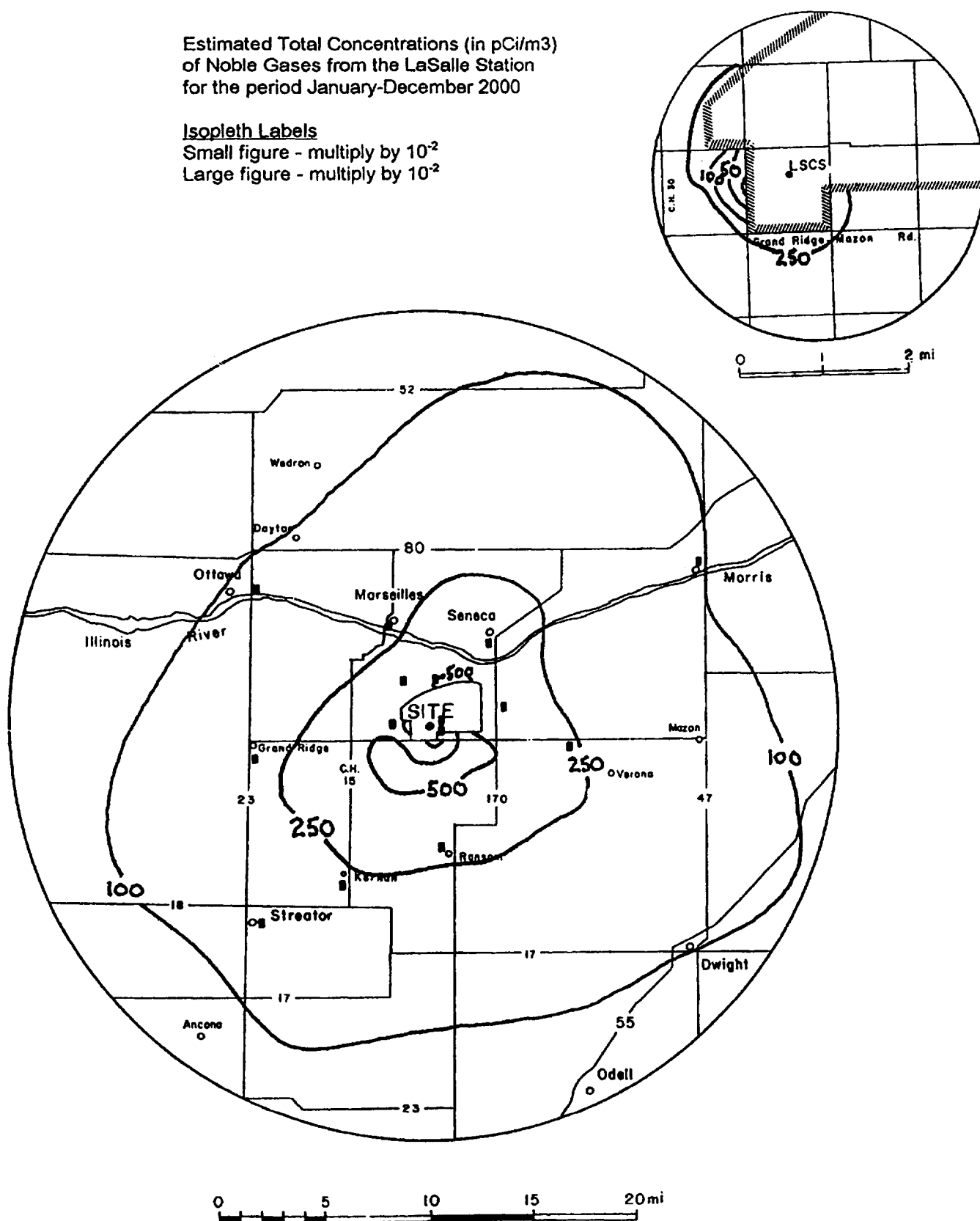


Figure 3.1-3

Estimated Total Concentrations (in pCi/m³)
of Iodines from the LaSalle Station for
the period January-December 2000

Isopleth Labels

Small figure - multiply by 10⁻⁶

Large figure - multiply by 10⁻⁵

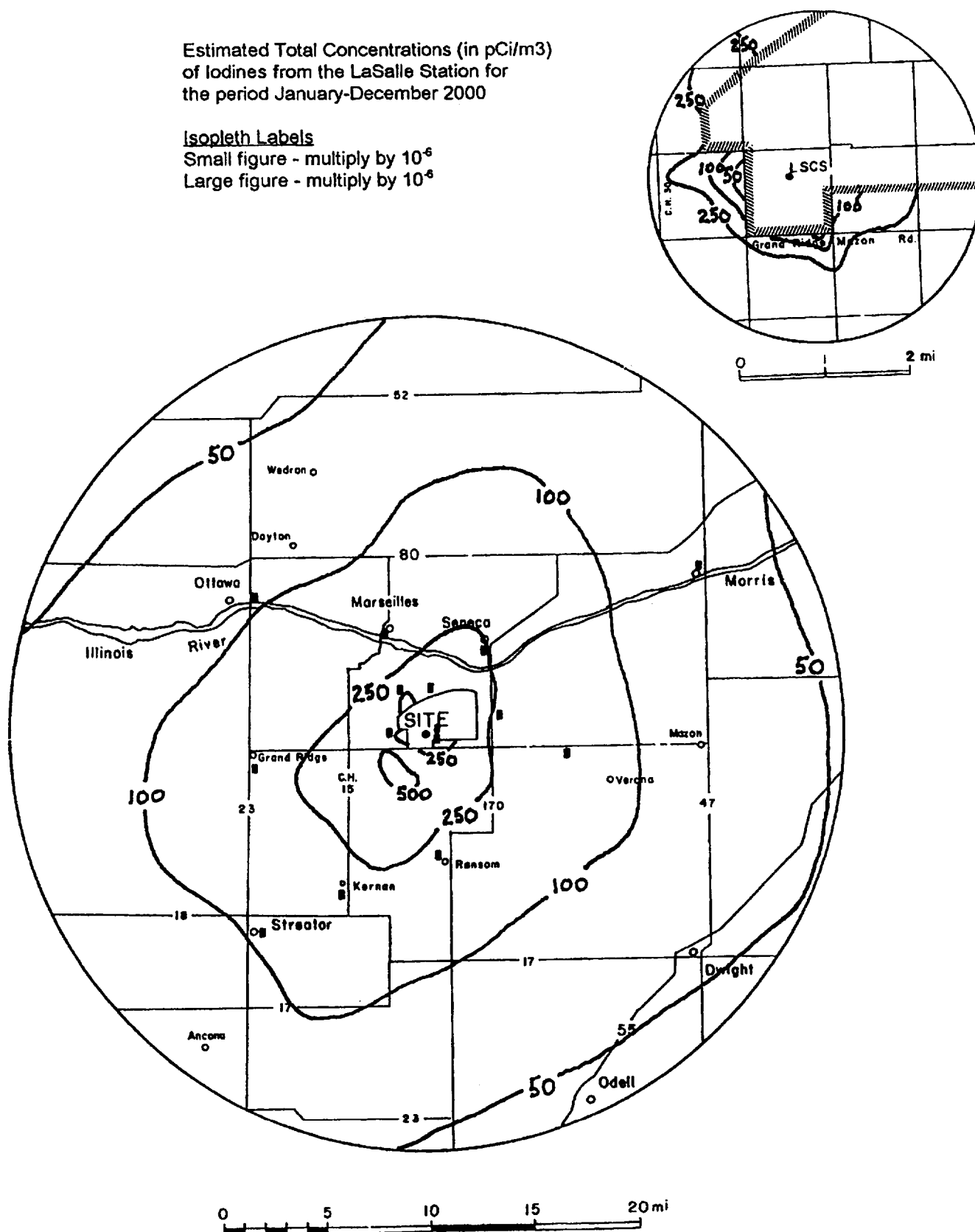


Figure 3.1-4

Estimated Total Concentrations (in pCi/m³)
of Particulates from the LaSalle Station
for the period January-December 2000

Isopleth Labels

Small figure - multiply by 10⁻⁶

Large figure - multiply by 10⁻⁵

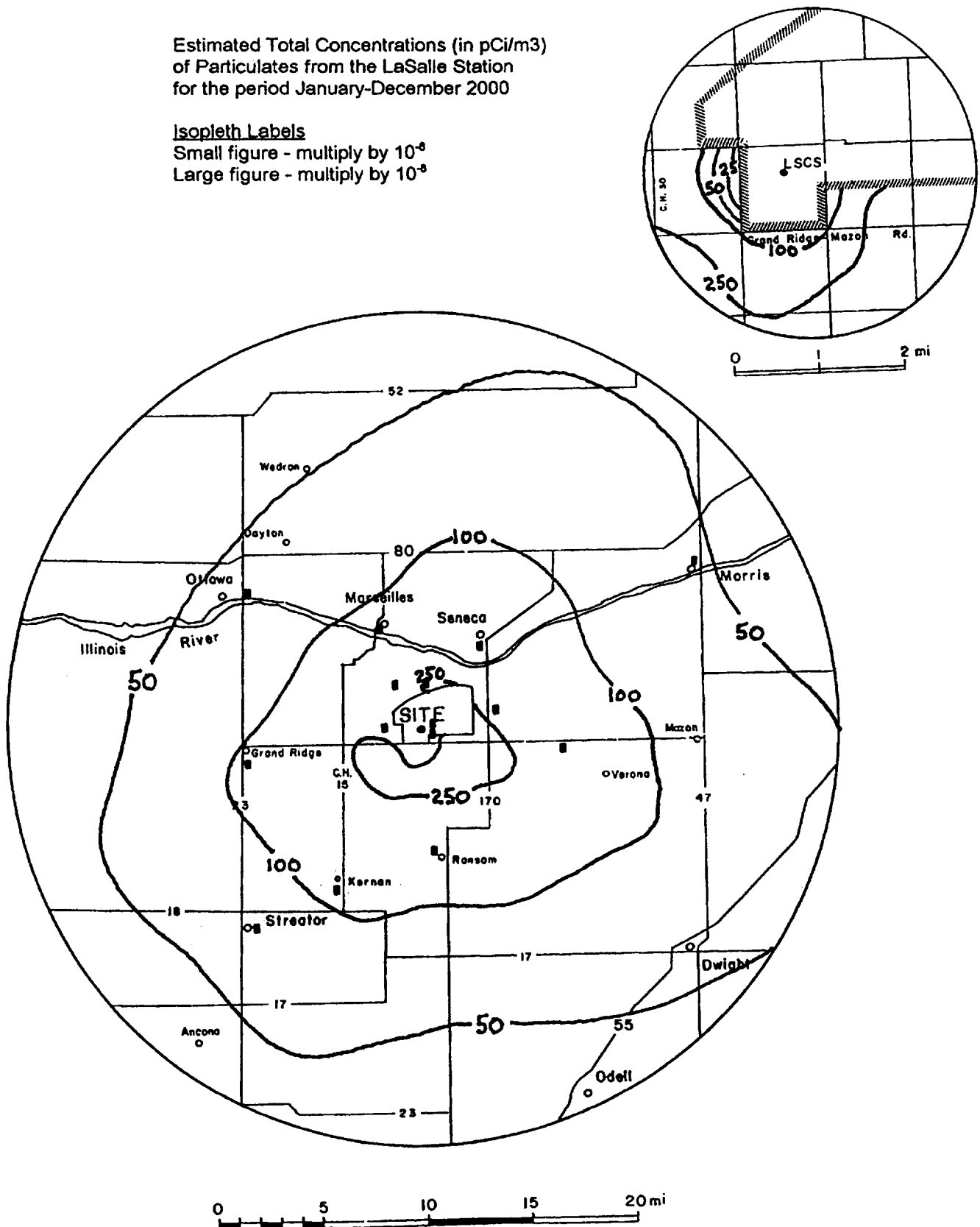


Table 3.1-1

LASALLE STATION UNIT ONE

ACTUAL 2000

MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES

PERIOD OF RELEASE - 01/01/00 TO 12/31/00 CALCULATED 04/09/01
INFANT RECEPTOR

TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
GAMMA AIR (MRAD)	7.53E-03 (WSW)	2.05E-02 (WSW)	1.18E-02 (WSW)	9.70E-03 (WSW)	4.96E-02 (WSW)
BETA AIR (MRAD)	2.61E-04 (ESE)	6.34E-04 (ESE)	3.98E-04 (ESE)	3.17E-04 (ESE)	1.61E-03 (ESE)
TOT. BODY (MREM)	5.70E-03 (WSW)	1.55E-02 (WSW)	8.96E-03 (WSW)	7.33E-03 (WSW)	3.75E-02 (WSW)
SKIN (MREM)	6.01E-03 (WSW)	1.63E-02 (WSW)	9.45E-03 (WSW)	7.73E-03 (WSW)	3.95E-02 (WSW)
ORGAN (MREM)	9.45E-04 (ESE)	8.83E-03 (ESE)	2.42E-02 (ESE)	1.01E-02 (ESE)	4.41E-02 (ESE)

	THYROID	THYROID	THYROID	THYROID	THYROID
THIS IS A REPORT FOR THE CALENDAR YEAR 2000					

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	0.15	0.41	0.24	0.19	10.0	0.50
BETA AIR (MRAD)	10.0	0.00	0.01	0.00	0.00	20.0	0.01
TOT. BODY (MREM)	2.5	0.23	0.62	0.36	0.29	5.0	0.75
SKIN (MREM)	7.5	0.08	0.22	0.13	0.10	15.0	0.26
ORGAN (MREM)	7.5	0.01	0.12	0.32	0.13	15.0	0.29

	THYROID	THYROID	THYROID	THYROID	THYROID

RESULTS BASED UPON:

ODCM ANNEX REVISION 1.7 SEPTEMBER 1995
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

Table 3.1-1 (continued)

LASALLE STATION UNIT ONE

ACTUAL 2000

MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES

PERIOD OF RELEASE - 01/01/00 TO 12/31/00 CALCULATED 04/09/01
CHILD RECEPTOR

TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
GAMMA AIR (MRAD)	7.53E-03 (WSW)	2.05E-02 (WSW)	1.18E-02 (WSW)	9.70E-03 (WSW)	4.96E-02 (WSW)
BETA AIR (MRAD)	2.61E-04 (ESE)	6.34E-04 (ESE)	3.98E-04 (ESE)	3.17E-04 (ESE)	1.61E-03 (ESE)
TOT. BODY (MREM)	5.70E-03 (WSW)	1.55E-02 (WSW)	8.96E-03 (WSW)	7.33E-03 (WSW)	3.75E-02 (WSW)
SKIN (MREM)	6.01E-03 (WSW)	1.63E-02 (WSW)	9.45E-03 (WSW)	7.73E-03 (WSW)	3.95E-02 (WSW)
ORGAN (MREM)	8.07E-04 (NNE)	1.45E-02 (NNE)	3.07E-02 (NNE)	1.45E-02 (NNE)	6.05E-02 (NNE)

THYROID THYROID THYROID THYROID THYROID
THIS IS A REPORT FOR THE CALENDAR YEAR 2000

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	0.15	0.41	0.24	0.19	10.0	0.50
BETA AIR (MRAD)	10.0	0.00	0.01	0.00	0.00	20.0	0.01
TOT. BODY (MREM)	2.5	0.23	0.62	0.36	0.29	5.0	0.75
SKIN (MREM)	7.5	0.08	0.22	0.13	0.10	15.0	0.26
ORGAN (MREM)	7.5	0.01	0.19	0.41	0.19	15.0	0.40

THYROID THYROID THYROID THYROID THYROID

RESULTS BASED UPON: ODCM ANNEX REVISION 1.7 SEPTEMBER 1995
ODCM SOFTWARE VERSION 1.1 January 1995
ODCM DATABASE VERSION 1.1 January 1995

Table 3.1-1 (continued)

LASALLE STATION UNIT ONE

ACTUAL 2000

MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES

PERIOD OF RELEASE - 01/01/00 TO 12/31/00 CALCULATED 04/09/01
TEENAGER RECEPTOR

TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
GAMMA AIR	7.53E-03	2.05E-02	1.18E-02	9.70E-03	4.96E-02
(MRAD)	(WSW)	(WSW)	(WSW)	(WSW)	(WSW)
BETA AIR	2.61E-04	6.34E-04	3.98E-04	3.17E-04	1.61E-03
(MRAD)	(ESE)	(ESE)	(ESE)	(ESE)	(ESE)
TOT. BODY	5.70E-03	1.55E-02	8.96E-03	7.33E-03	3.75E-02
(MREM)	(WSW)	(WSW)	(WSW)	(WSW)	(WSW)
SKIN	6.01E-03	1.63E-02	9.45E-03	7.73E-03	3.95E-02
(MREM)	(WSW)	(WSW)	(WSW)	(WSW)	(WSW)
ORGAN	6.14E-04	9.27E-03	1.91E-02	9.27E-03	3.82E-02
(MREM)	(NNE)	(NNE)	(NNE)	(NNE)	(NNE)

	THYROID	THYROID	THYROID	THYROID	THYROID
THIS IS A REPORT FOR THE CALENDAR YEAR 2000					

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	0.15	0.41	0.24	0.19	10.0	0.50
BETA AIR (MRAD)	10.0	0.00	0.01	0.00	0.00	20.0	0.01
TOT. BODY (MREM)	2.5	0.23	0.62	0.36	0.29	5.0	0.75
SKIN (MREM)	7.5	0.08	0.22	0.13	0.10	15.0	0.26
ORGAN (MREM)	7.5	0.01	0.12	0.25	0.12	15.0	0.25

	THYROID	THYROID	THYROID	THYROID	THYROID

RESULTS BASED UPON:	ODCM ANNEX REVISION 1.7 SEPTEMBER 1995
	ODCM SOFTWARE VERSION 1.1 January 1995
	ODCM DATABASE VERSION 1.1 January 1995

Table 3.1-1 (continued)

LASALLE STATION UNIT ONE

ACTUAL 2000

MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES

PERIOD OF RELEASE - 01/01/00 TO 12/31/00 CALCULATED 04/09/01
ADULT RECEPTOR

TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
GAMMA AIR (MRAD)	7.53E-03 (WSW)	2.05E-02 (WSW)	1.18E-02 (WSW)	9.70E-03 (WSW)	4.96E-02 (WSW)
BETA AIR (MRAD)	2.61E-04 (ESE)	6.34E-04 (ESE)	3.98E-04 (ESE)	3.17E-04 (ESE)	1.61E-03 (ESE)
TOT. BODY (MREM)	5.70E-03 (WSW)	1.55E-02 (WSW)	8.96E-03 (WSW)	7.33E-03 (WSW)	3.75E-02 (WSW)
SKIN (MREM)	6.01E-03 (WSW)	1.63E-02 (WSW)	9.45E-03 (WSW)	7.73E-03 (WSW)	3.95E-02 (WSW)
ORGAN (MREM)	6.77E-04 (NNE)	9.11E-03 (NNE)	1.92E-02 (NNE)	9.27E-03 (NNE)	3.83E-02 (NNE)

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THIS IS A REPORT FOR THE CALENDAR YEAR 2000

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	0.15	0.41	0.24	0.19	10.0	0.50
BETA AIR (MRAD)	10.0	0.00	0.01	0.00	0.00	20.0	0.01
TOT. BODY (MREM)	2.5	0.23	0.62	0.36	0.29	5.0	0.75
SKIN (MREM)	7.5	0.08	0.22	0.13	0.10	15.0	0.26
ORGAN (MREM)	7.5	0.01	0.12	0.26	0.12	15.0	0.26

 THYROID THYROID THYROID THYROID THYROID

RESULTS BASED UPON: ODCM ANNEX REVISION 1.7 SEPTEMBER 1995
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

Table 3.2-1

LASALLE STATION UNIT ONE

ACTUAL 2000
 MAXIMUM DOSES (MREM) RESULTING FROM AQUATIC EFFLUENTS
 PERIOD OF RELEASE - 01/01/00 TO 12/31/00 CALCULATED 04/09/01
 INFANT RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL	0.00E+00	0.00E+00	0.00E+00	2.58E-06	2.58E-06
BODY					
INTERNAL	0.00E+00	0.00E+00	0.00E+00	1.18E-05	1.18E-05
ORGAN				LIVER	LIVER

THIS IS A REPORT FOR THE CALENDAR YEAR 2000

COMPLIANCE STATUS - 10 CFR 50 APP. I

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

	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
TOTAL BODY (MREM)	1.5	0.00	0.00	0.00	0.00	3.0	0.00
CRIT. ORGAN (MREM)	5.0	0.00	0.00	0.00	0.00	10.0	0.00
					LIVER		LIVER

RESULTS BASED UPON: ODCM ANNEX REVISION 1.7 SEPTEMBER 1995
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

Table 3.2-1 (continued)

LASALLE STATION UNIT ONE

ACTUAL 2000
 MAXIMUM DOSES (MREM) RESULTING FROM AQUATIC EFFLUENTS
 PERIOD OF RELEASE - 01/01/00 TO 12/31/00 CALCULATED 04/09/01
 CHILD RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL	0.00E+00	0.00E+00	0.00E+00	6.26E-05	6.26E-05
BODY					
INTERNAL	0.00E+00	0.00E+00	0.00E+00	3.20E-04	3.20E-04
ORGAN				LIVER	LIVER

THIS IS A REPORT FOR THE CALENDAR YEAR 2000

COMPLIANCE STATUS - 10 CFR 50 APP. I

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

	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
TOTAL BODY (MREM)	1.5	0.00	0.00	0.00	0.00	3.0	0.00
CRIT. ORGAN (MREM)	5.0	0.00	0.00	0.00	0.01	10.0	0.00
					LIVER		LIVER

RESULTS BASED UPON:

ODCM ANNEX REVISION 1.7 SEPTEMBER 1995
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

Table 3.2-1 (continued)

LASALLE STATION UNIT ONE

ACTUAL 2000
 MAXIMUM DOSES (MREM) RESULTING FROM AQUATIC EFFLUENTS
 PERIOD OF RELEASE - 01/01/00 TO 12/31/00 CALCULATED 04/09/01
 TEENAGER RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL	0.00E+00	0.00E+00	0.00E+00	1.38E-04	1.38E-04
BODY					
INTERNAL	0.00E+00	0.00E+00	0.00E+00	3.53E-04	3.53E-04
ORGAN				LIVER	LIVER

THIS IS A REPORT FOR THE CALENDAR YEAR 2000

COMPLIANCE STATUS - 10 CFR 50 APP. I

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

	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
TOTAL BODY (MREM)	1.5	0.00	0.00	0.00	0.01	3.0	0.00
CRIT. ORGAN (MREM)	5.0	0.00	0.00	0.00	0.01	10.0	0.00
						LIVER	LIVER

RESULTS BASED UPON: ODCM ANNEX REVISION 1.7 SEPTEMBER 1995
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

Table 3.2-1 (continued)

LASALLE STATION UNIT ONE

ACTUAL 2000
 MAXIMUM DOSES (MREM) RESULTING FROM AQUATIC EFFLUENTS
 PERIOD OF RELEASE - 01/01/00 TO 12/31/00 CALCULATED 04/09/01
 ADULT RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL	0.00E+00	0.00E+00	0.00E+00	2.42E-04	2.42E-04
BODY					
INTERNAL	0.00E+00	0.00E+00	0.00E+00	3.48E-04	3.48E-04
ORGAN				LIVER	LIVER

THIS IS A REPORT FOR THE CALENDAR YEAR 2000

COMPLIANCE STATUS - 10 CFR 50 APP. I

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

	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
TOTAL BODY (MREM)	1.5	0.00	0.00	0.00	0.02	3.0	0.01
CRIT. ORGAN (MREM)	5.0	0.00	0.00	0.00	0.01	10.0	0.00
					LIVER		LIVER

RESULTS BASED UPON:

ODCM ANNEX REVISION 1.7 SEPTEMBER 1995
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

Table 3.2-1 (continued)

LASALLE STATION UNIT TWO

ACTUAL 2000
 MAXIMUM DOSES (MREM) RESULTING FROM AQUATIC EFFLUENTS
 PERIOD OF RELEASE - 01/01/00 TO 12/31/00 CALCULATED 04/09/01
 INFANT RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL BODY	0.00E+00	0.00E+00	0.00E+00	2.58E-06	2.58E-06
INTERNAL ORGAN	0.00E+00	0.00E+00	0.00E+00	1.18E-05	1.18E-05
				LIVER	LIVER

THIS IS A REPORT FOR THE CALENDAR YEAR 2000

COMPLIANCE STATUS - 10 CFR 50 APP. I

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

	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
TOTAL BODY (MREM)	1.5	0.00	0.00	0.00	0.00	3.0	0.00
CRIT. ORGAN (MREM)	5.0	0.00	0.00	0.00	0.00	10.0	0.00
						LIVER	LIVER

RESULTS BASED UPON:

ODCM ANNEX REVISION 1.7 SEPTEMBER 1995
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

Table 3.2-1 (continued)

LASALLE STATION UNIT TWO

ACTUAL 2000
 MAXIMUM DOSES (MREM) RESULTING FROM AQUATIC EFFLUENTS
 PERIOD OF RELEASE - 01/01/00 TO 12/31/00 CALCULATED 04/09/01
 CHILD RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL	0.00E+00	0.00E+00	0.00E+00	6.26E-05	6.26E-05
BODY					
INTERNAL	0.00E+00	0.00E+00	0.00E+00	3.20E-04	3.20E-04
ORGAN				LIVER	LIVER

THIS IS A REPORT FOR THE CALENDAR YEAR 2000

COMPLIANCE STATUS - 10 CFR 50 APP. I

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

	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
TOTAL BODY (MREM)	1.5	0.00	0.00	0.00	0.00	3.0	0.00
CRIT. ORGAN (MREM)	5.0	0.00	0.00	0.00	0.01	10.0	0.00
					LIVER		LIVER

RESULTS BASED UPON: ODCM ANNEX REVISION 1.7 SEPTEMBER 1995
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

Table 3.2-1 (continued)

LASALLE STATION UNIT TWO

ACTUAL 2000
 MAXIMUM DOSES (MREM) RESULTING FROM AQUATIC EFFLUENTS
 PERIOD OF RELEASE - 01/01/00 TO 12/31/00 CALCULATED 04/09/01
 TEENAGER RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL	0.00E+00	0.00E+00	0.00E+00	1.38E-04	1.38E-04
BODY					
INTERNAL	0.00E+00	0.00E+00	0.00E+00	3.53E-04	3.53E-04
ORGAN				LIVER	LIVER

THIS IS A REPORT FOR THE CALENDAR YEAR 2000

COMPLIANCE STATUS - 10 CFR 50 APP. I

----- % OF APP I. -----							
	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
TOTAL BODY (MREM)	1.5	0.00	0.00	0.00	0.01	3.0	0.00
CRIT. ORGAN(MREM)	5.0	0.00	0.00	0.00	0.01	10.0	0.00
					LIVER		LIVER

RESULTS BASED UPON: ODCM ANNEX REVISION 1.7 SEPTEMBER 1995
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

Table 3.2-1 (continued)

LASALLE STATION UNIT TWO

ACTUAL 2000
 MAXIMUM DOSES (MREM) RESULTING FROM AQUATIC EFFLUENTS
 PERIOD OF RELEASE - 01/01/00 TO 12/31/00 CALCULATED 04/09/01
 ADULT RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL BODY	0.00E+00	0.00E+00	0.00E+00	2.42E-04	2.42E-04
INTERNAL ORGAN	0.00E+00	0.00E+00	0.00E+00	3.48E-04	3.48E-04
				LIVER	LIVER

THIS IS A REPORT FOR THE CALENDAR YEAR 2000

COMPLIANCE STATUS - 10 CFR 50 APP. I

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

	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
TOTAL BODY (MREM)	1.5	0.00	0.00	0.00	0.02	3.0	0.01
CRIT. ORGAN(MREM)	5.0	0.00	0.00	0.00	0.01	10.0	0.00
					LIVER		LIVER

RESULTS BASED UPON: ODCM ANNEX REVISION 1.7 SEPTEMBER 1995
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

Table 3.3-1

LASALLE STATION UNIT ONE

10 CFR 20 COMPLIANCE ASSESSMENT

PERIOD OF ASSESSMENT 01/01/00 TO 12/31/00

CALCULATED 04/09/01

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

Total Effective Dose Equivalent, mrem/yr 4.93E-01

10 CFR 20.1301 (a)(1) limit mrem/yr 100.0

% of limit 0.49

Compliance Summary - 10CFR20

	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	% of Limit
TEDE	6.61E-02	1.41E-01	1.31E-01	1.55E-01	0.49

RESULTS BASED UPON: ODCM ANNEX REVISION 1.7 SEPTEMBER 1995
 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 01/01/00 TO 12/31/00

CALCULATED 04/09/01

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

		Dose (mrem)	Limit (mrem)	% of Limit
Whole Body (DDE)	Plume	<u>3.75E-02</u>		
	Skyshine	<u>4.45E-01</u>		
	Ground	<u>7.05E-04</u>		
	Total	<u>4.83E-01</u>	<u>25.0</u>	<u>1.93</u>
Organ Dose (CDE)	Thyroid	<u>3.10E-02</u>	<u>75.0</u>	<u>0.04</u>
	Gonads	<u>9.41E-03</u>	<u>25.0</u>	<u>0.04</u>
	Breast	<u>9.38E-03</u>	<u>25.0</u>	<u>0.04</u>
	Lung	<u>9.38E-03</u>	<u>25.0</u>	<u>0.04</u>
	Marrow	<u>9.40E-03</u>	<u>25.0</u>	<u>0.04</u>
	Bone	<u>9.39E-03</u>	<u>25.0</u>	<u>0.04</u>
	Remainder	<u>9.49E-03</u>	<u>25.0</u>	<u>0.04</u>
	CEDE	<u>1.01E-02</u>		
	TEDE	<u>4.93E-01</u>	<u>100.0</u>	<u>0.49</u>

RESULTS BASED UPON: ODCM ANNEX REVISION 1.7 SEPTEMBER 1995
 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 01/01/00 TO 12/31/00

CALCULATED 04/09/01

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

Total Effective Dose Equivalent, mrem/yr 1.73E-01

10 CFR 20.1301 (a)(1) limit mrem/yr 100.0

% of limit 0.17

Compliance Summary - 10CFR20

	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	% of Limit
TEDE	3.91E-02	1.14E-02	5.84E-02	6.45E-02	0.17

RESULTS BASED UPON: ODCM ANNEX REVISION 1.7 SEPTEMBER 1995
 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 01/01/00 TO 12/31/00

CALCULATED 04/09/01

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

		Dose (mrem)	Limit (mrem)	% of Limit
Whole Body (DDE)	Plume	0.00E+00		
	Skyshine	1.73E-01		
	Ground	0.00E+00		
	Total	1.73E-01	25.0	0.69
Organ Dose (CDE)	Thyroid	1.58E-04	75.0	0.00
	Gonads	1.83E-04	25.0	0.00
	Breast	1.57E-04	25.0	0.00
	Lung	1.59E-04	25.0	0.00
	Marrow	1.73E-04	25.0	0.00
	Bone	1.65E-04	25.0	0.00
	Remainder	2.01E-04	25.0	0.00
	CEDE	1.79E-04		
	TEDE	1.73E-01	100.0	0.17

RESULTS BASED UPON: ODCM ANNEX REVISION 1.7 SEPTEMBER 1995
 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

CURRENT PERIOD OF RELEASE: October 1 - December 31 YEAR: 2000

TYPE OF DOSE	CURRENT PERIOD	CURRENT QUARTER	THIRD QUARTER	SECOND QUARTER	FIRST QUARTER	ANNUAL
GAMMA AIR (mrad)	5.550E-03(SE)	5.550E-03(SE)	1.225E-02(WSW)	1.420E-02(WSW)	5.150E-03(W)	3.669E-02(WSW)
BETA AIR (mrad)	8.550E-04(ESE)	8.550E-04(ESE)	9.600E-04(SW)	1.395E-03(NE)	4.155E-04(ESE)	2.777E-03(SW)
WHOLE BODY (mrem)	2.425E-03(ESE)	2.425E-03(ESE)	4.545E-03(SSW)	5.450E-03(SSW)	1.835E-03(SSW)	1.362E-02(SSW)
SKIN (mrem)	3.420E-03(ESE)	3.420E-03(ESE)	5.350E-03(SSW)	6.400E-03(SSW)	2.170E-03(SSW)	1.599E-02(SSW)
ORGAN (mrem)	1.420E-04(ESE)	1.420E-04(ESE)	1.650E-04(SW)	5.500E-05(NE)	2.520E-05(ESE)	2.969E-04(SW)
CRITICAL PERS-ORG	CH-TH	CH-TH	CH-TH	CH-TH	CH-TH	CH-TH

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	.11	10.0	.37
BETA AIR (mrad)	10.0	.01	20.0	.01
WHOLE BODY (mrem)	2.5	.10	5.0	.27
SKIN (mrem)	7.5	.05	15.0	.11
ORGAN (mrem)	7.5	.00	15.0	.00
CRITICAL PERSON-ORGAN		(CH-TH)		(CH-TH)

CRITICAL ORGANS: BN=BONE, LV=LIVER, TB=TOTAL BODY, TH=THYROID, KD=KIDNEY, LN=LUNG, GI=GI-LLI
 CRITICAL PERSON: AD=ADULT, TA=TEENAGER, CH=CHILD, IN=INFANT

Date of calculation: 4/17/2001

Table 3.4-1 (continued)

LASALLE STATION - UNIT 2

MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES

CURRENT PERIOD OF RELEASE: October 1 - December 31 YEAR: 2000

TYPE OF DOSE	CURRENT PERIOD	CURRENT QUARTER	THIRD QUARTER	SECOND QUARTER	FIRST QUARTER	ANNUAL
GAMMA AIR (mrad)	5.550E-03(SE)	5.550E-03(SE)	1.225E-02(WSW)	1.420E-02(WSW)	5.150E-03(W)	3.669E-02(WSW)
BETA AIR (mrad)	8.550E-04(ESE)	8.550E-04(ESE)	9.600E-04(SW)	1.395E-03(NE)	4.155E-04(ESE)	2.777E-03(SW)
WHOLE BODY (mrem)	2.425E-03(ESE)	2.425E-03(ESE)	4.545E-03(SSW)	5.450E-03(SSW)	1.835E-03(SSW)	1.362E-02(SSW)
SKIN (mrem)	3.420E-03(ESE)	3.420E-03(ESE)	5.350E-03(SSW)	6.400E-03(SSW)	2.170E-03(SSW)	1.599E-02(SSW)
ORGAN (mrem)	1.420E-04(ESE)	1.420E-04(ESE)	1.650E-04(SW)	5.500E-05(NE)	2.520E-05(ESE)	2.969E-04(SW)
CRITICAL PERS-ORG	CH-TH	CH-TH	CH-TH	CH-TH	CH-TH	CH-TH

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	.11	10.0	.37
BETA AIR (mrad)	10.0	.01	20.0	.01
WHOLE BODY (mrem)	2.5	.10	5.0	.27
SKIN (mrem)	7.5	.05	15.0	.11
ORGAN (mrem)	7.5	.00	15.0	.00
CRITICAL PERSON-ORGAN		(CH-TH)		(CH-TH)

CRITICAL ORGANS: BN=BONE, LV=LIVER, TB=TOTAL BODY, TH=THYROID, KD=KIDNEY, LN=LUNG, GI=GI-LLI
 CRITICAL PERSON: AD=ADULT, TA=TEENAGER, CH=CHILD, IN=INFANT

Maximum Offsite

Values (pCi/m3)

Date of calculation: 4/17/2001

Iodine	5.73E-04
Particulate Matter	4.01E-06
Data Recovery (priority parameters)	99.8%

Figure 5.0-1

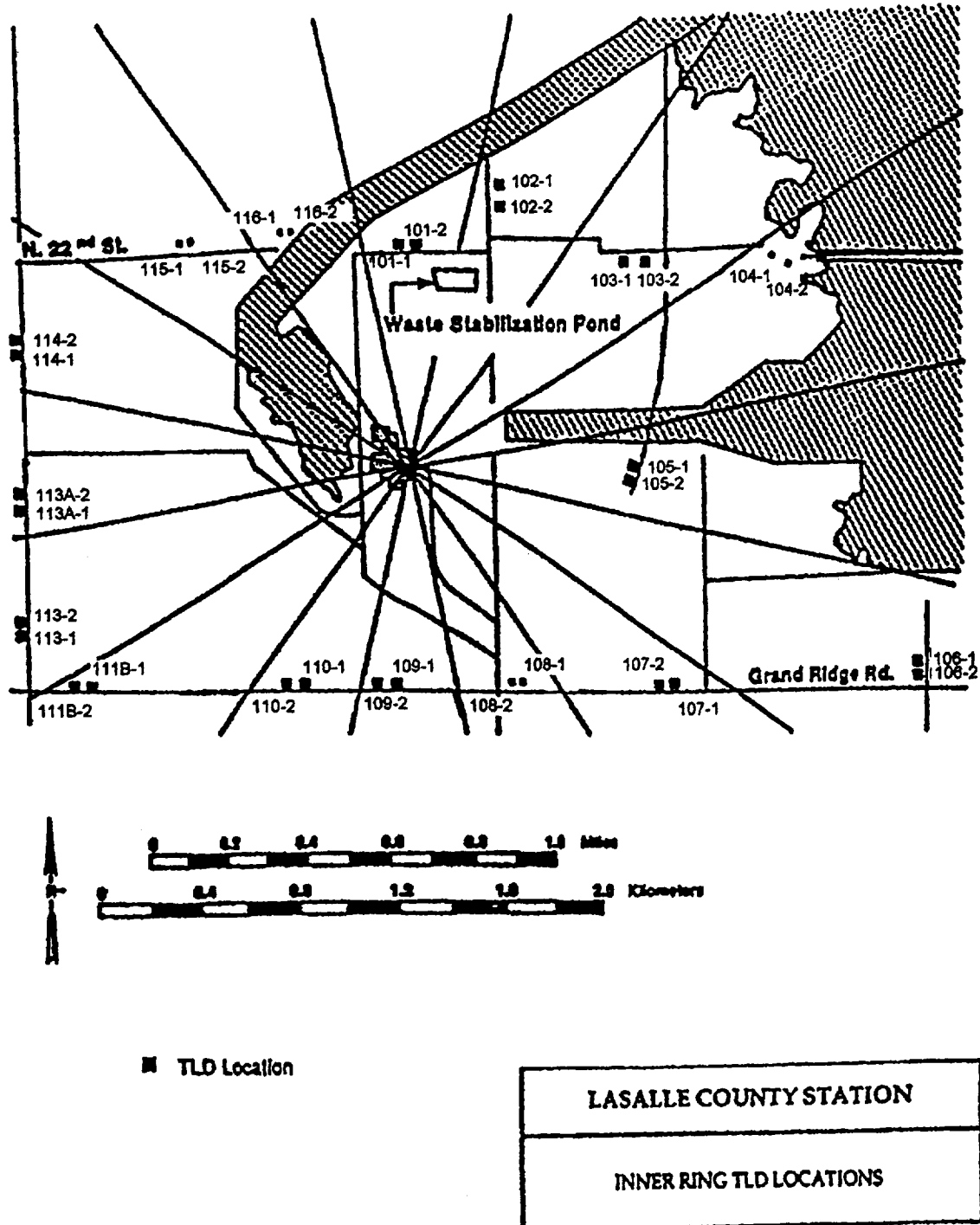


Figure 5.0-2

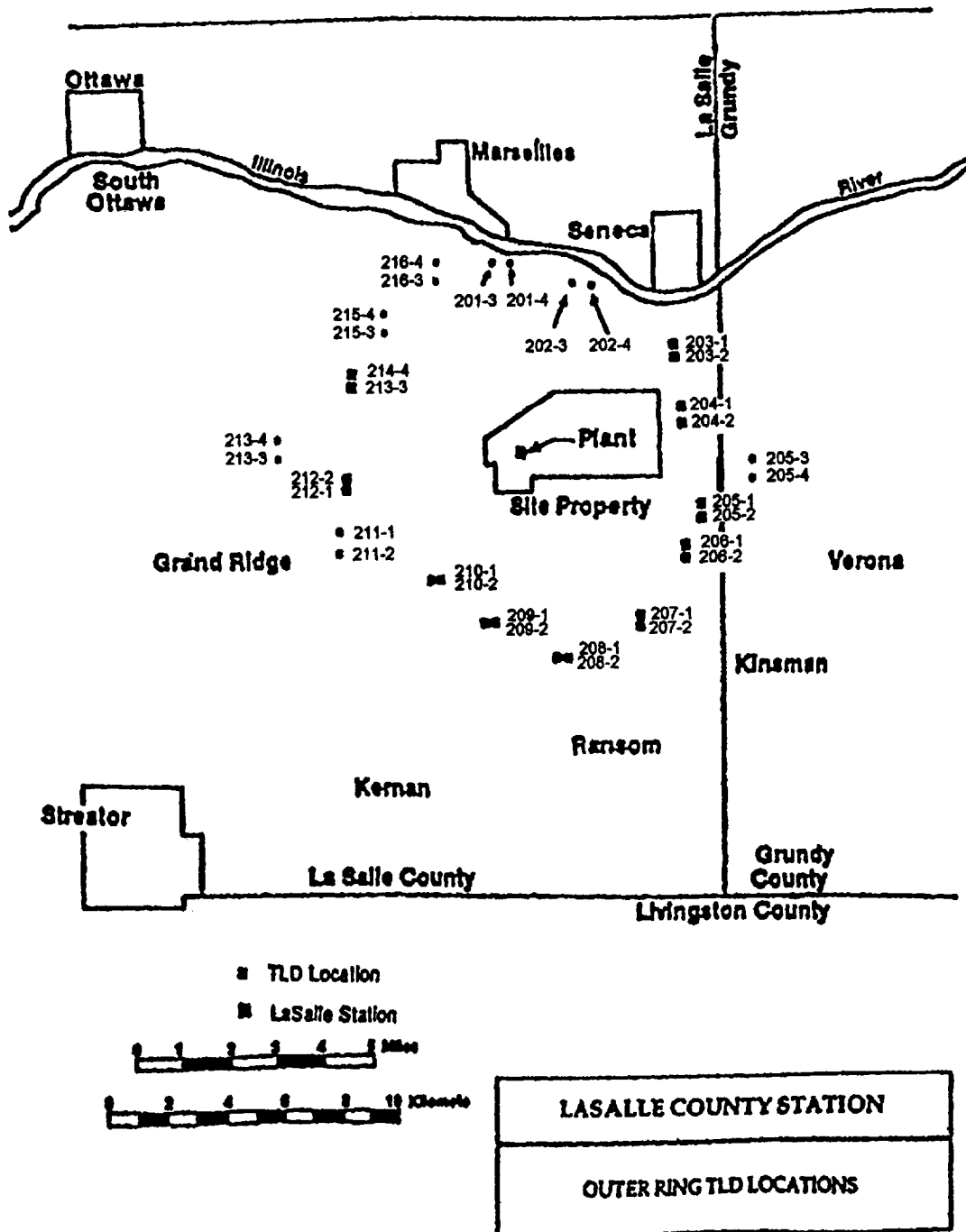


Figure 5.0-3

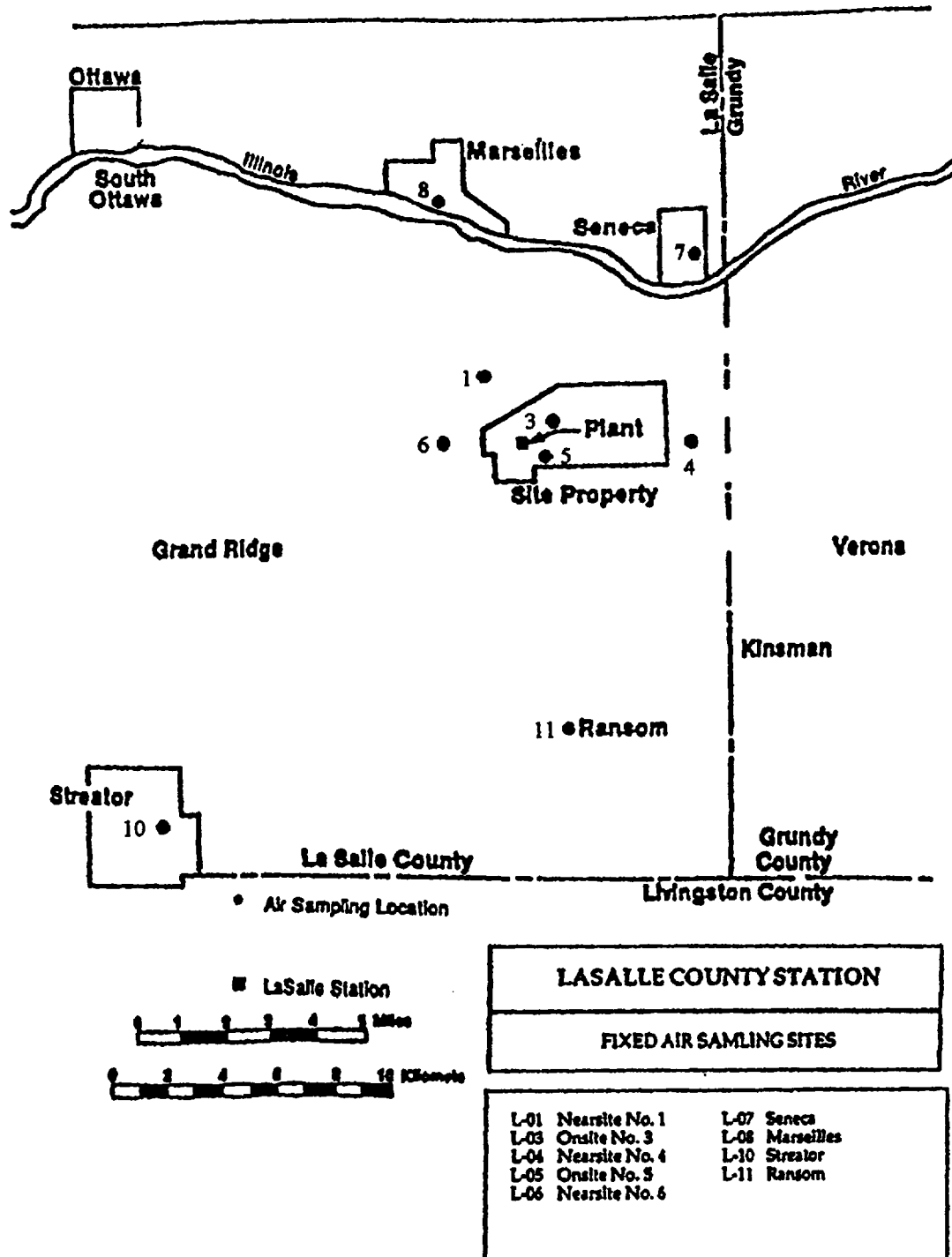
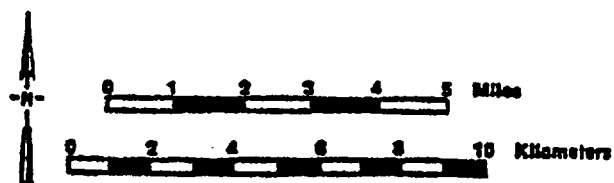
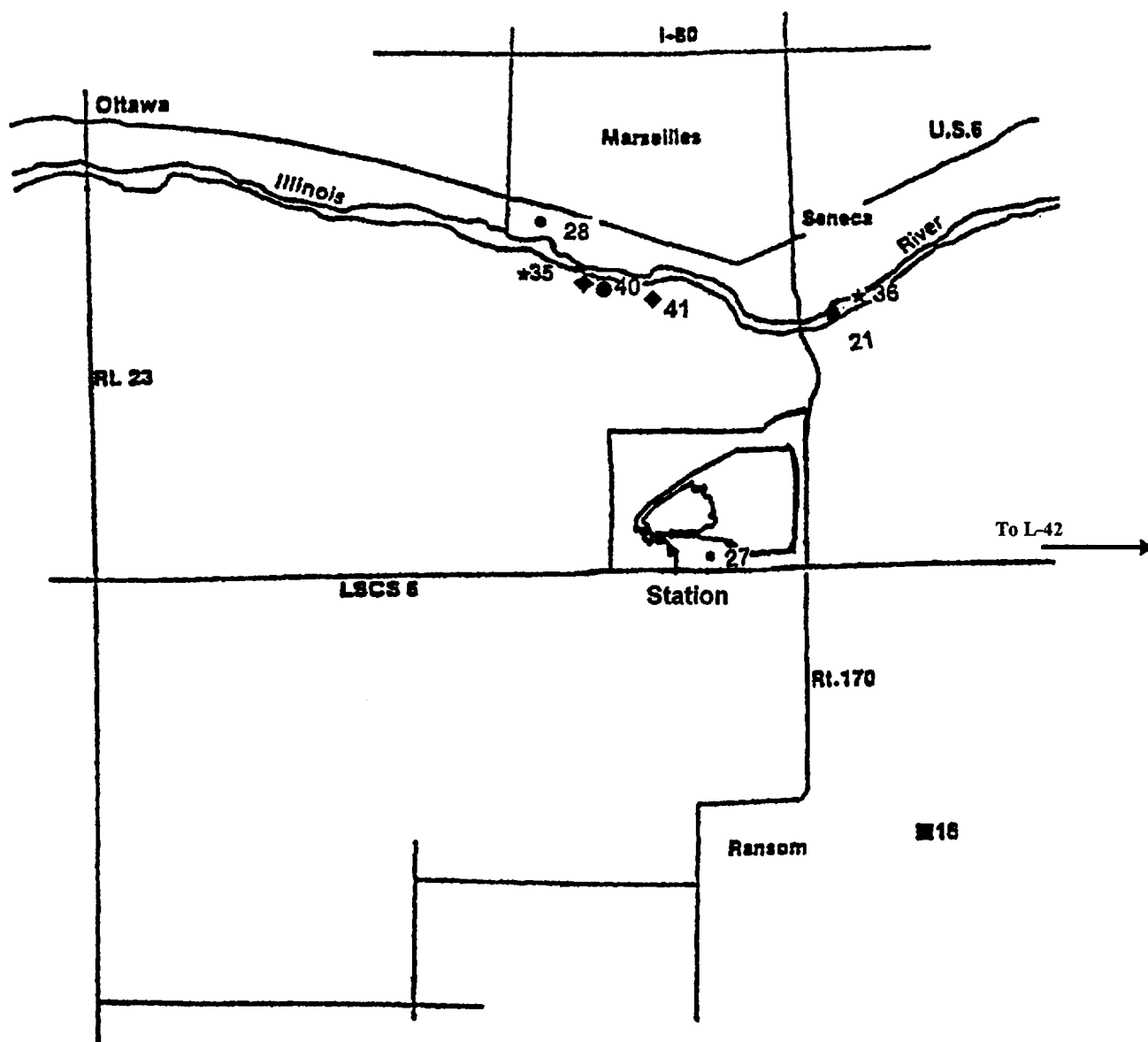


Figure 5.0-4



- ★ Fish
- Milk
- ◆ Sediment
- Water

LaSalle County Station	
Ingestion and Waterborne Exposure Pathway Sample Locations	
L-16	Lowery Dairy
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-16 Lowery Dairy ^a	.	.	.	✓
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 ^b	.	.	.	✓
L-Quadrant 1	✓	.
L-Quadrant 2	✓	.
L-Quadrant 3	✓	.
L-Quadrant 4	✓	.
L-Control	✓	.

CENSUS

Dairy

Residence

Livestock

^a Farmer sold cows in February, 2000.^b Replaced Lowery Dairy in February, 2000.

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> (miles)	<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	Nearsite 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> (miles)	<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</u> ^a	<u>Location</u>	<u>Distance (mile)</u>	<u>Direction</u>	<u>Sector</u>
L-16 (C) ^b	Lowery Dairy	7.2	ESE	F
L-42 (C) ^c	Biros Farm	14.2	E	E

GROUND/WELL WATER

<u>Site Code</u> ^a	<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

SURFACE WATER

<u>Site Code</u> ^a	<u>Location</u>	<u>Distance (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

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

^b Farmer sold cows in February, 2000.

^c Replaced Lowery Dairy in February, 2000.

TABLE 5.0-2 (continued)

LASALLE STATION

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM, SAMPLING LOCATIONS

6. FISH

<u>Site Code^a</u>	<u>Location</u>	<u>Distance (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^a</u>	<u>Location</u>	<u>Distance (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^a</u>	<u>Location</u>	<u>Distance (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.	If gross beta in a sample exceeds 10 times the yearly mean of control samples and radioactivity is confirmed as having its origin in airborne effluents from station.
	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-16 (C)	Lowery Dairy ^b	Biweekly: May-October Monthly: November-April	I-131 Gamma Isot.	Biweekly: May-October Monthly: November-April
	L-42 (C)	Biros Farm ^c			
6. Vegetables	Quad 1	D. Partridge	Annually - two varieties from each location as available at harvest.	Gamma Isot.	Annually
	Quad 2	Mike & Gina Welbourne		I-131	Annually, on broad leaf vegetation.
	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	Quarterly composite.
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.

^b Farmer sold cows in February, 2000.

^c Replaced Lowery Dairy on 02-24-2000.

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 StationDocket No. 50-373, 50-374Location of Facility: LaSalle, IllinoisReporting Period: 1st Quarter 2000

(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	63	0.01	0.030 (50/52) (0.013-0.056)	L-01 ^b , Nearsite No. 1 1.5 mi. NNW, Sector R	0.030 (13/13) (0.013-0.055)	0.030 (13/13) (0.011-0.058)	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	34	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		15-30	None	-	-	<LLD	0
Surface Water (pCi/L)	Gross Beta	6	4	5.5 (2/3) (4.8-6.3)	L-21, Illinois River at Seneca	5.9 (2/3) (5.3-7.1)	5.9 (2/3) (5.3-7.1)	0
	Gamma Spec.	6			4.0 mi. NE, Sector C			
	Cs-134		15	<LLD	-	-	<LLD	0
	Cs-137		18	<LLD	-	-	<LLD	0
	Other ODCM- Required Gammas		15-30	<LLD	-	-	<LLD	0
	Tritium	2	200	796 (1/1)	L-40, Illinois River Downstream 5.2 mi. NNW, Sector R	796 (1/1)	550 (1/1)	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	18.6 (82/82) (15.2-21.3)	L-210-1, 3.3 mi. SW, Sector L	21.3 (1/1)	16.5 (2/2) (15.8-17.1)	0

^a Mean and range based on detectable measurements only. Fractions indicated in parentheses.^b All locations had identical means of 0.030 pCi/m³. L-01 and L-10 (C) are detailed in this summary.

Table 5.0-4

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM QUARTERLY SUMMARY

Name of Facility: LaSalle Nuclear Power StationDocket No. 50-373, 50-374Location of Facility: LaSalle, IllinoisReporting Period: 2nd Quarter 2000

(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	0.020 (52/52) (0.014-0.028)	L-10, Streator 13.5 mi. SW, Sector L	0.021 (13/13) (0.014-0.027)	0
	Gamma Spec.	5					
	Cs-134		0.01	<LLD	-	-	0
	Cs-137		0.01	<LLD	-	-	0
	Other Gammas		0.01-0.04	<LLD	-	<LLD	0
Airborne Iodine (pCi/m ³)	I-131	30	0.07	<LLD	-	-	0
Milk (pCi/L)	I-131	6	0.5/5 ^b	<LLD	-	-	0
	Gamma Spec.	6					
	Cs-134		15	<LLD	-	-	0
	Cs-137		18	<LLD	-	-	0
	Ba/La-140		15	<LLD	-	-	0
	Other Gammas		15-30	<LLD	-	-	0
Fish (pCi/g wet)	Gamma Spec.	8					
	Cs-134		0.10	<LLD	-	-	0
	Cs-137		0.10	<LLD	-	-	0
	Other ODCM- Required Gammas		0.13-0.26	<LLD	-	-	0
	Other Gammas		0.20-0.30	<LLD	-	-	0
Sediments (pCi/g wet)	Gamma Spec.	2					
	Cs-134		0.15	<LLD	-	-	0
	Cs-137		0.18	<LLD	L-41, Illinois River Downstream, 4.6 mi. NNW, Sector A	0.21	0
	Other Gammas		0.10-0.60	<LLD	-	-	0
Surface Water (pCi/L)	Gross Beta	6	4	5.7 (3/3) (4.6-6.6)	L-40, Illinois River Downstream 5.2 mi. NNW, Sector R	5.7 (3/3) (4.6-6.6)	0
	Gamma Spec.	6					
	Cs-134		15	<LLD	-	-	0
	Cs-137		18	<LLD	-	-	0
	Other ODCM- Required Gammas		15-30	<LLD	-	-	0
	Tritium	2	200	401 (1/1)	L-21, Illinois River at Seneca 4.0 mi. NE, Sector C	410 (1/1)	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 StationDocket No. 50-373, 50-374Location of Facility: LaSalle, IllinoisReporting Period: 2nd Quarter 2000

(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	<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	18.8 (82/82) (15.4-21.9)	L-209-2 4.0 mi. SSW, Sector K	21.9 (1/1)	16.3 (2/2) (16.0-16.6)	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 StationDocket No. 50-373, 50-374Location of Facility: LaSalle, IllinoisReporting Period: 3rd Quarter 2000

(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	0.025 (52/52) (0.014-0.045)	L-06 ^b , Nearsite No. 6 0.4 mi. WSW, Sector M	0.026 (13/13) (0.019-0.040)	0.026 (13/13) (0.018-0.045)	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		15-30	None	-	-	<LLD	0	
Vegetation (pCi/g wet)	I-131	5	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) (5.2-6.8)	L-40, Illinois River Downstream	6.1 (3/3) (5.2-6.8)	5.7 (3/3) (5.4-6.1)	0	
	Gamma Spec.	6			5.2 mi. NNW, Sector R				
	Cs-134		15	<LLD	-	-	<LLD	0	
	Cs-137		18	<LLD	-	-	<LLD	0	
	Other ODCM- Required Gammas		15-30	<LLD	-	-	<LLD	0	
	Tritium	2	200	383 (1/1)	L-21, Illinois River at Seneca 4.0 mi. NE, Sector C	421 (1/1)	421 (1/1)	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	

^a Mean and range based on detectable measurements only. Fractions indicated in parentheses.^b Locations L-06 and L-10 (C) had identical means of 0.026 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 StationDocket No. 50-373, 50-374Location of Facility: LaSalle, IllinoisReporting Period: 3rd Quarter 2000

(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	
Gamma Background (TLDs) (mR/Qtr.)	Gamma Dose	84	9.7	18.2 (82/82) (14.7-20.7)	L-102-1 0.6 mi. NNE, Sector B	20.7 (1/1)	15.6 (2/2) (15.5-15.6)	0

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

Table 5.0-6

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM QUARTERLY SUMMARY

Name of Facility: LaSalle Nuclear Power StationDocket No. 50-373, 50-374Location of Facility: LaSalle, IllinoisReporting Period: 4th Quarter 2000

(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	0.035 (52/52) (0.016-0.056)	L-10, Streator 13.5 mi. SW, Sector L	0.038 (13/13) (0.022-0.055)	0.038 (13/13) (0.022-0.055)	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	4	0.5/5 ^b	<LLD	-	-	<LLD	0			
	Gamma Spec.	4									
	Cs-134		15	<LLD	-	-	<LLD	0			
	Cs-137		18	<LLD	-	-	<LLD	0			
	Ba/La-140		15	<LLD	-	-	<LLD	0			
	Other Gammas		15-30	<LLD	-	-	<LLD	0			
Fish (pCi/g wet)	Gamma Spec.	9									
	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			
Sediments (pCi/g wet)	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			
Surface Water (pCi/L)	Gross Beta	6	4	5.8 (2/3) (5.8-5.8)	L-21, Illinois River at Seneca 4.0 mi. NE, Sector C	6.9 (3/3) (6.6-7.2)	6.9 (3/3) (6.6-7.2)	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	493 (1/1)	L-40, Illinois River Downstream 5.2 mi. NNW, Sector R	493 (1/1)	381 (1/1)	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 5.0-6 (continued)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM QUARTERLY SUMMARY

Name of Facility: LaSalle Nuclear Power StationDocket No. 50-373, 50-374Location of Facility: LaSalle, IllinoisReporting Period: 4th Quarter 2000

(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	<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	18.9 (82/82) (15.7-20.8)	L-105-2 0.7 mi. E, Sector E	20.8 (1/1)	16.6 (2/2) (16.6-16.6)	0

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

LASALLE

APPENDIX II

METEOROLOGICAL DATA

LASALLE NUCLEAR POWER STATION

PERIOD OF RECORD: JANUARY-MARCH 2000

STABILITY CLASS - EXTREMELY UNSTABLE (DIFF TEMP 375-33 FT)
WINDS MEASURED AT 375 FEET

WIND DIRECTION	WIND SPEED (in mph)						TOTAL
	0.8-3	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: 57

LASALLE NUCLEAR POWER STATION

PERIOD OF RECORD: JANUARY-MARCH 2000

STABILITY CLASS - MODERATELY UNSTABLE (DIFF TEMP 375-33 FT)
WINDS MEASURED AT 375 FEET

WIND DIRECTION	WIND SPEED (in mph)						TOTAL
	0.8-3	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: 57

LASALLE NUCLEAR POWER STATION

PERIOD OF RECORD: JANUARY-MARCH 2000

STABILITY CLASS - SLIGHTLY UNSTABLE (DIFF TEMP 375-33 FT)
WINDS MEASURED AT 375 FEET

WIND DIRECTION	WIND SPEED (in mph)						TOTAL
	0.8-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	0	0	0	0	0
NNE	0	0	0	1	2	0	3
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	3	0	4
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	0	2	1	3
SSW	0	0	0	0	1	2	3
SW	0	0	0	1	3	0	4
WSW	0	0	0	0	1	0	1
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	12	3	18

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: 57

LASALLE NUCLEAR POWER STATION

PERIOD OF RECORD: JANUARY-MARCH 2000

STABILITY CLASS - NEUTRAL (DIFF TEMP 375-33 FT)
WINDS MEASURED AT 375 FEET

WIND DIRECTION	WIND SPEED (in mph)						TOTAL
	0.8-3	4-7	8-12	13-18	19-24	> 24	
N	0	6	12	17	19	6	60
NNE	0	5	22	21	12	0	60
NE	0	3	3	16	11	7	40
ENE	1	4	2	14	11	19	51
E	0	7	1	9	9	9	35
ESE	0	3	2	10	12	8	35
SE	1	6	3	15	8	0	33
SSE	1	4	0	2	2	8	17
S	0	5	10	12	7	28	62
SSW	0	2	10	6	8	10	36
SW	0	2	3	9	18	14	46
WSW	0	6	6	8	14	16	50
W	1	4	5	11	10	11	42
WNW	1	3	8	12	24	40	88
NW	0	1	16	7	22	28	74
NNW	2	3	12	13	27	21	78
VARIABLE	0	0	0	0	0	0	0
TOTAL	7	64	115	182	214	225	807

Hours of calm in this stability class: 0
Hours of missing wind measurements in this stability class: 34
Hours of missing stability measurements in all stability classes: 57

LASALLE NUCLEAR POWER STATION

PERIOD OF RECORD: JANUARY-MARCH 2000

STABILITY CLASS - SLIGHTLY STABLE (DIFF TEMP 375-33 FT)
WINDS MEASURED AT 375 FEET

WIND DIRECTION	WIND SPEED (in mph)						TOTAL
	0.8-3	4-7	8-12	13-18	19-24	> 24	
N	0	1	4	14	10	5	34
NNE	1	4	8	14	6	0	33
NE	0	3	7	8	3	0	21
ENE	1	6	12	10	5	0	34
E	1	4	10	12	21	7	55
ESE	1	4	10	16	9	5	45
SE	0	3	3	5	8	6	25
SSE	1	2	5	4	6	18	36
S	2	3	6	8	14	38	71
SSW	0	2	5	8	13	55	83
SW	0	1	5	9	16	31	62
WSW	0	1	4	4	6	32	47
W	1	4	9	6	11	34	65
WNW	2	2	6	5	19	61	95
NW	0	6	6	5	13	16	46
NNW	1	5	3	9	9	12	39
VARIABLE	0	0	0	0	0	0	0
TOTAL	11	51	103	137	169	320	791

Hours of calm in this stability class: 0
Hours of missing wind measurements in this stability class: 16
Hours of missing stability measurements in all stability classes: 57

LASALLE NUCLEAR POWER STATION

PERIOD OF RECORD: JANUARY-MARCH 2000

STABILITY CLASS - MODERATELY STABLE (DIFF TEMP 375-33 FT)
WINDS MEASURED AT 375 FEET

WIND DIRECTION	WIND SPEED (in mph)						TOTAL
	0.8-3	4-7	8-12	13-18	19-24	> 24	
N	0	1	0	2	2	0	5
NNE	0	0	2	1	1	0	4
NE	0	1	1	0	0	0	2
ENE	0	4	1	0	0	0	5
E	0	1	2	2	2	0	7
ESE	0	1	5	10	3	1	20
SE	0	1	8	4	3	4	20
SSE	0	0	3	5	2	3	13
S	0	1	0	3	8	32	44
SSW	0	0	0	2	2	36	40
SW	0	0	1	8	5	29	43
WSW	0	0	1	1	4	14	20
W	0	0	4	4	2	12	22
WNW	1	2	3	4	20	10	40
NW	0	1	2	10	24	0	37
NNW	0	0	2	8	9	3	22
VARIABLE	0	0	0	0	0	0	0
TOTAL	1	13	35	64	87	144	344

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: 57

LASALLE NUCLEAR POWER STATION

PERIOD OF RECORD: JANUARY-MARCH 2000

STABILITY CLASS - EXTREMELY STABLE (DIFF TEMP 375-33 FT)
WINDS MEASURED AT 375 FEET

WIND DIRECTION	WIND SPEED (in mph)						TOTAL
	0.8-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	0	0	0	0	0
NNE	0	0	0	2	2	0	4
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	0	3	5	2	0	0	10
ESE	0	0	2	0	2	0	4
SE	0	0	0	0	2	0	2
SSE	0	0	0	2	0	4	6
S	0	0	0	2	1	2	5
SSW	0	0	0	4	1	9	14
SW	0	0	0	3	8	14	25
WSW	0	0	0	0	1	5	6
W	0	0	0	1	4	7	12
WNW	0	0	2	7	4	3	16
NW	0	0	4	7	2	0	13
NNW	0	0	0	0	0	0	0
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	3	13	30	27	44	117

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: 57

LASALLE NUCLEAR POWER STATION

PERIOD OF RECORD: APRIL-JUNE 2000

STABILITY CLASS - EXTREMELY UNSTABLE (DIFF TEMP 375-33 FT)
WINDS MEASURED AT 375 FEET

WIND DIRECTION	WIND SPEED (in mph)						TOTAL
	0.8-3	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 POWER STATION

PERIOD OF RECORD: APRIL-JUNE 2000

STABILITY CLASS - MODERATELY UNSTABLE (DIFF TEMP 375-33 FT)
WINDS MEASURED AT 375 FEET

WIND DIRECTION	WIND SPEED (in mph)						TOTAL
	0.8-3	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	1	1
S	0	0	0	0	0	1	1
SSW	0	0	0	0	0	1	1
SW	0	0	0	0	1	2	3
WSW	0	0	0	0	0	0	0
W	0	0	0	0	0	0	0
WNW	0	0	0	0	1	0	1
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	2	5	7

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 POWER STATION

PERIOD OF RECORD: APRIL-JUNE 2000

STABILITY CLASS - SLIGHTLY UNSTABLE (DIFF TEMP 375-33 FT)
WINDS MEASURED AT 375 FEET

WIND DIRECTION	WIND SPEED (in mph)						TOTAL
	0.8-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	0	0	0	0	0
NNE	0	0	0	0	1	1	2
NE	0	0	0	2	3	0	5
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	1	1	3
S	0	0	0	3	4	2	9
SSW	0	0	0	0	13	4	17
SW	0	0	0	0	4	5	9
WSW	0	0	0	0	2	1	3
W	0	0	0	0	0	0	0
WNW	0	0	0	0	3	0	3
NW	0	0	0	0	3	1	4
NNW	0	0	0	0	0	0	0
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	0	0	6	34	15	55

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 POWER STATION

PERIOD OF RECORD: APRIL-JUNE 2000

STABILITY CLASS - NEUTRAL (DIFF TEMP 375-33 FT)
WINDS MEASURED AT 375 FEET

WIND DIRECTION	WIND SPEED (in mph)						TOTAL
	0.8-3	4-7	8-12	13-18	19-24	> 24	
N	1	14	21	20	10	13	79
NNE	0	8	33	25	23	2	91
NE	1	18	10	23	19	15	86
ENE	0	11	6	19	31	5	72
E	1	6	12	19	6	2	46
ESE	0	7	11	5	1	12	36
SE	0	9	7	9	1	1	27
SSE	0	8	13	7	4	4	36
S	1	3	22	14	10	11	61
SSW	1	9	15	18	25	20	88
SW	0	6	21	41	30	31	129
WSW	0	6	15	20	25	12	78
W	0	11	7	16	9	8	51
WNW	0	7	9	19	23	35	93
NW	1	7	6	19	26	29	88
NNW	1	8	19	23	16	22	89
VARIABLE	0	0	0	0	0	0	0
TOTAL	7	138	227	297	259	222	1150

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 POWER STATION

PERIOD OF RECORD: APRIL-JUNE 2000

STABILITY CLASS - SLIGHTLY STABLE (DIFF TEMP 375-33 FT)
WINDS MEASURED AT 375 FEET

WIND DIRECTION	WIND SPEED (in mph)						TOTAL
	0.8-3	4-7	8-12	13-18	19-24	> 24	
N	1	1	3	7	5	1	18
NNE	0	1	9	9	2	2	23
NE	0	1	9	8	10	3	31
ENE	2	3	6	21	8	0	40
E	0	2	8	15	3	2	30
ESE	0	0	10	4	11	7	32
SE	0	2	6	5	4	3	20
SSE	0	3	9	3	8	8	31
S	0	2	7	12	15	16	52
SSW	0	0	3	11	20	62	96
SW	0	3	9	6	15	57	90
WSW	0	2	3	11	15	10	41
W	0	1	5	11	5	8	30
WNW	0	2	7	11	4	16	40
NW	0	1	0	12	10	4	27
NNW	1	2	5	10	5	0	23
VARIABLE	0	0	0	0	0	0	0
TOTAL	4	26	99	156	140	199	624

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 POWER STATION

PERIOD OF RECORD: APRIL-JUNE 2000

STABILITY CLASS - MODERATELY STABLE (DIFF TEMP 375-33 FT)
WINDS MEASURED AT 375 FEET

WIND DIRECTION	WIND SPEED (in mph)						TOTAL
	0.8-3	4-7	8-12	13-18	19-24	> 24	
N	1	1	1	5	2	0	10
NNE	1	0	2	5	1	0	9
NE	0	0	1	2	2	1	6
ENE	0	0	1	0	1	0	2
E	0	0	3	1	2	0	6
ESE	0	2	2	6	1	1	12
SE	0	1	5	6	0	3	15
SSE	0	1	2	5	7	6	21
S	1	2	5	3	9	8	28
SSW	0	1	4	4	13	11	33
SW	0	2	2	3	8	18	33
WSW	0	2	1	3	6	8	20
W	2	1	3	7	5	1	19
WNW	2	2	7	7	8	0	26
NW	1	2	5	7	9	0	24
NNW	0	1	2	2	2	0	7
VARIABLE	0	0	0	0	0	0	0
TOTAL	8	18	46	66	76	57	271

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 POWER STATION

PERIOD OF RECORD: APRIL-JUNE 2000

STABILITY CLASS - EXTREMELY STABLE (DIFF TEMP 375-33 FT)
WINDS MEASURED AT 375 FEET

WIND DIRECTION	WIND SPEED (in mph)						TOTAL
	0.8-3	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	1	0	0	0	0	0	1
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	0	1	0	0	1
SE	0	0	0	0	6	2	8
SSE	0	1	1	0	1	4	7
S	0	0	1	3	1	2	7
SSW	0	0	0	4	1	8	13
SW	0	4	0	3	1	4	12
WSW	1	1	3	1	1	2	9
W	1	1	0	3	3	0	8
WNW	0	2	0	2	1	0	5
NW	2	1	0	1	1	0	5
NNW	0	0	0	0	0	0	0
VARIABLE	0	0	0	0	0	0	0
TOTAL	5	10	5	18	17	22	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 POWER STATION

PERIOD OF RECORD: JULY-SEPTEMBER 2000

STABILITY CLASS - EXTREMELY UNSTABLE (DIFF TEMP 375-33 FT)
WINDS MEASURED AT 375 FEET

WIND DIRECTION	WIND SPEED (in mph)						TOTAL
	0.8-3	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	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	1	0	1

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: 6

LASALLE NUCLEAR POWER STATION

PERIOD OF RECORD: JULY-SEPTEMBER 2000

STABILITY CLASS - MODERATELY UNSTABLE (DIFF TEMP 375-33 FT)
WINDS MEASURED AT 375 FEET

WIND DIRECTION	WIND SPEED (in mph)						TOTAL
	0.8-3	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	1	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	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	0	2	0	2
SSW	0	0	0	1	1	0	2
SW	0	0	0	1	1	0	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	4	4	0	8

Hours of calm in this stability class: 0
Hours of missing wind measurements in this stability class: 0
Hours of missing stability measurements in all stability classes: 6

LASALLE NUCLEAR POWER STATION

PERIOD OF RECORD: JULY-SEPTEMBER 2000

STABILITY CLASS - SLIGHTLY UNSTABLE (DIFF TEMP 375-33 FT)
WINDS MEASURED AT 375 FEET

WIND DIRECTION	WIND SPEED (in mph)						TOTAL
	0.8-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	0	2	2	0	4
NNE	0	0	1	1	0	0	2
NE	0	0	0	2	0	0	2
ENE	0	0	2	1	1	0	4
E	0	0	1	0	0	0	1
ESE	0	0	1	8	0	0	9
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	7	4	0	11
SSW	0	0	0	3	2	1	6
SW	0	0	3	4	3	2	12
WSW	0	0	0	1	0	0	1
W	0	0	1	0	0	0	1
WNW	0	0	0	2	0	0	2
NW	0	0	0	2	2	0	4
NNW	0	0	0	0	0	0	0
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	0	9	33	14	3	59

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: 6

LASALLE NUCLEAR POWER STATION

PERIOD OF RECORD: JULY-SEPTEMBER 2000

STABILITY CLASS - NEUTRAL (DIFF TEMP 375-33 FT)
WINDS MEASURED AT 375 FEET

WIND DIRECTION	WIND SPEED (in mph)						TOTAL
	0.8-3	4-7	8-12	13-18	19-24	> 24	
N	0	7	44	26	10	0	87
NNE	0	9	44	37	6	0	96
NE	0	18	24	55	25	0	122
ENE	0	6	30	46	19	5	106
E	0	7	30	6	0	1	44
ESE	1	11	21	12	4	0	49
SE	1	10	15	13	6	2	47
SSE	1	6	18	7	4	2	38
S	0	4	28	16	9	2	59
SSW	0	4	16	38	12	6	76
SW	0	2	17	27	3	6	55
WSW	0	5	14	24	8	3	54
W	0	1	20	24	1	0	46
WNW	0	5	28	7	1	1	42
NW	1	4	25	23	8	0	61
NNW	0	4	25	22	12	0	63
VARIABLE	0	0	0	0	0	0	0
TOTAL	4	103	399	383	128	28	1045

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: 6

LASALLE NUCLEAR POWER STATION

PERIOD OF RECORD: JULY-SEPTEMBER 2000

STABILITY CLASS - SLIGHTLY STABLE (DIFF TEMP 375-33 FT)
WINDS MEASURED AT 375 FEET

WIND DIRECTION	WIND SPEED (in mph)						TOTAL
	0.8-3	4-7	8-12	13-18	19-24	> 24	
N	0	5	3	4	7	3	22
NNE	0	13	18	19	6	0	56
NE	0	3	9	14	2	0	28
ENE	2	5	21	14	8	1	51
E	1	10	12	25	13	1	62
ESE	0	3	9	6	12	0	30
SE	2	0	10	5	11	4	32
SSE	0	2	4	6	9	3	24
S	0	1	1	10	25	5	42
SSW	0	0	4	13	30	30	77
SW	0	0	6	8	12	15	41
WSW	0	2	5	10	10	6	33
W	1	3	10	3	5	4	26
WNW	0	1	7	8	8	5	29
NW	0	1	7	6	2	0	16
NNW	0	2	7	4	6	3	22
VARIABLE	0	0	0	0	0	0	0
TOTAL	6	51	133	155	166	80	591

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: 6

LASALLE NUCLEAR POWER STATION

PERIOD OF RECORD: JULY-SEPTEMBER 2000

STABILITY CLASS - MODERATELY STABLE (DIFF TEMP 375-33 FT)
WINDS MEASURED AT 375 FEET

WIND DIRECTION	WIND SPEED (in mph)						TOTAL
	0.8-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	6	5	3	1	15
NNE	0	1	5	1	0	0	7
NE	0	2	2	2	0	0	6
ENE	0	1	2	0	0	0	3
E	0	5	5	6	1	1	18
ESE	0	1	5	5	7	11	29
SE	0	0	2	7	5	0	14
SSE	2	1	6	2	2	4	17
S	0	1	5	11	16	13	46
SSW	0	0	2	8	16	35	61
SW	2	0	5	4	13	15	39
WSW	0	5	4	5	9	10	33
W	1	5	4	5	4	1	20
WNW	0	2	4	11	7	2	26
NW	0	0	5	6	6	0	17
NNW	1	0	2	3	3	2	11
VARIABLE	0	0	0	0	0	0	0
TOTAL	6	24	64	81	92	95	362

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: 6

LASALLE NUCLEAR POWER STATION

PERIOD OF RECORD: JULY-SEPTEMBER 2000

STABILITY CLASS - EXTREMELY STABLE (DIFF TEMP 375-33 FT)
WINDS MEASURED AT 375 FEET

WIND DIRECTION	WIND SPEED (in mph)						TOTAL
	0.8-3	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	2	0	3	5
SE	0	0	1	3	4	3	11
SSE	0	0	3	9	4	11	27
S	0	0	3	10	6	17	36
SSW	0	0	0	1	11	6	18
SW	0	0	3	0	6	7	16
WSW	0	0	2	4	0	13	19
W	0	1	0	0	0	0	1
WNW	0	1	1	0	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	13	29	31	60	135

Hours of calm in this stability class: 0
Hours of missing wind measurements in this stability class: 0
Hours of missing stability measurements in all stability classes: 6

LASALLE NUCLEAR POWER STATION

PERIOD OF RECORD: OCTOBER-DECEMBER 2000

STABILITY CLASS - EXTREMELY UNSTABLE (DIFF TEMP 375-33 FT)
WINDS MEASURED AT 375 FEET

WIND DIRECTION	WIND SPEED (in mph)						TOTAL
	0.8-3	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 POWER STATION

PERIOD OF RECORD: OCTOBER-DECEMBER 2000

STABILITY CLASS - MODERATELY UNSTABLE (DIFF TEMP 375-33 FT)
WINDS MEASURED AT 375 FEET

WIND DIRECTION	WIND SPEED (in mph)						TOTAL
	0.8-3	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 POWER STATION

PERIOD OF RECORD: OCTOBER-DECEMBER 2000

STABILITY CLASS - SLIGHTLY UNSTABLE (DIFF TEMP 375-33 FT)
WINDS MEASURED AT 375 FEET

WIND DIRECTION	WIND SPEED (in mph)						TOTAL
	0.8-3	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	3	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	0	0	0	3	3

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 POWER STATION

PERIOD OF RECORD: OCTOBER-DECEMBER 2000

STABILITY CLASS - NEUTRAL (DIFF TEMP 375-33 FT)
WINDS MEASURED AT 375 FEET

WIND DIRECTION	WIND SPEED (in mph)						TOTAL
	0.8-3	4-7	8-12	13-18	19-24	> 24	
N	0	5	15	14	8	4	46
NNE	0	0	6	16	9	2	33
NE	1	5	12	26	28	5	77
ENE	1	5	10	21	18	2	57
E	1	4	7	7	3	0	22
ESE	0	2	7	7	5	11	32
SE	0	1	20	4	7	4	36
SSE	0	4	10	13	8	2	37
S	0	6	9	5	11	5	36
SSW	0	5	2	6	11	11	35
SW	0	2	10	24	18	7	61
WSW	0	1	9	48	24	13	95
W	3	6	10	29	33	21	102
WNW	3	8	15	55	42	32	155
NW	0	5	20	38	40	26	129
NNW	3	9	15	9	34	21	91
VARIABLE	0	0	0	0	0	0	0
TOTAL	12	68	177	322	299	166	1044

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 POWER STATION

PERIOD OF RECORD: OCTOBER-DECEMBER 2000

STABILITY CLASS - SLIGHTLY STABLE (DIFF TEMP 375-33 FT)
WINDS MEASURED AT 375 FEET

WIND DIRECTION	WIND SPEED (in mph)						TOTAL
	0.8-3	4-7	8-12	13-18	19-24	> 24	
N	1	5	5	2	6	0	19
NNE	2	11	5	9	3	2	32
NE	0	3	12	7	5	3	30
ENE	1	1	11	6	7	1	27
E	0	2	14	4	6	5	31
ESE	0	4	6	4	6	11	31
SE	0	1	11	7	7	16	42
SSE	1	1	4	11	11	5	33
S	0	2	1	3	2	18	26
SSW	0	5	5	5	9	35	59
SW	0	2	7	8	12	13	42
WSW	0	2	9	21	9	2	43
W	0	3	9	21	28	57	118
WNW	0	4	7	15	18	45	89
NW	0	4	14	9	21	7	55
NNW	0	3	2	5	3	0	13
VARIABLE	0	0	0	0	0	0	0
TOTAL	5	53	122	137	153	220	690

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 POWER STATION

PERIOD OF RECORD: OCTOBER-DECEMBER 2000

STABILITY CLASS - MODERATELY STABLE (DIFF TEMP 375-33 FT)
WINDS MEASURED AT 375 FEET

WIND DIRECTION	WIND SPEED (in mph)						TOTAL
	0.8-3	4-7	8-12	13-18	19-24	> 24	
N	0	1	1	5	1	0	8
NNE	0	0	0	0	0	0	0
NE	0	1	0	1	2	0	4
ENE	0	2	3	1	0	0	6
E	0	0	0	0	2	0	2
ESE	0	0	2	2	6	7	17
SE	0	0	2	6	5	8	21
SSE	0	0	5	7	14	12	38
S	0	0	2	6	12	8	28
SSW	0	4	7	6	7	17	41
SW	0	5	3	8	8	9	33
WSW	0	5	4	5	1	0	15
W	0	3	6	10	14	0	33
WNW	0	5	0	8	8	3	24
NW	0	2	2	9	7	0	20
NNW	0	2	2	7	7	0	18
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	30	39	81	94	64	308

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 POWER STATION

PERIOD OF RECORD: OCTOBER-DECEMBER 2000

STABILITY CLASS - EXTREMELY STABLE (DIFF TEMP 375-33 FT)
WINDS MEASURED AT 375 FEET

WIND DIRECTION	WIND SPEED (in mph)						TOTAL
	0.8-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	0	0	3	0	3
NNE	1	3	0	1	0	0	5
NE	0	1	2	2	2	0	7
ENE	0	0	0	0	0	0	0
E	1	0	0	0	0	0	1
ESE	0	0	0	0	0	0	0
SE	0	0	1	1	1	0	3
SSE	0	0	2	1	0	0	3
S	0	0	4	10	8	1	23
SSW	0	0	3	9	3	5	20
SW	0	2	1	2	4	25	34
WSW	1	1	2	0	0	12	16
W	0	0	5	2	5	4	16
WNW	0	0	1	7	2	10	20
NW	0	0	0	2	4	3	9
NNW	0	0	0	1	2	0	3
VARIABLE	0	0	0	0	0	0	0
TOTAL	3	7	21	38	34	60	163

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

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APPENDIX III

2000 REMP SAMPLE RESULTS

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1.0 INTRODUCTION

The following constitutes the current, 2000 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 alpha and beta, are decay corrected to the time of collection.

TLD data is provided by Commonwealth Edison 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

None for 2000.

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2.0 LISTING OF MISSED SAMPLES

Sample Type	Location Code	Expected Collection Date	Reason
A/I	L-05	01-06-00	No sample; power off.
MI	L-16	02-03-00	No sample; farmer sold cows.
A/I	L-06	03-16-00	No particulate sample due to blown fuse; pump had only 5.9 hour run for week; charcoal cartridge will be analyzed as one-week sample. Pump removed for repairs.
TLD	Other	06-29-00	TLD L-206-2 found missing during quarterly exchange. Collector reported new utility post had been installed; TLD possibly lost when old post was removed.
TLD	Other	12-28-00	4th quarter TLD L-205-1 found missing during 1st quarter 2000 exchange; placed new 1st quarter TLD.

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3.0 LISTING OF SAMPLE ANOMALIES

Sample Type	Location Code	Collection Date	Reason
WW	L-27	01-06-00	Piping missing from location; sample collected from alternate location inside building (men's washroom). Station Point of Contact notified of change.
A	L-05	01-13-00	Low reading of 73.5 due to recent power restoration.
A	L-03	01-27-00	No apparent reason for low reading of 152.1.
A/I	L-03	07-06-00	Low reading of 56.7; no electricity at sampling station; station Point of Contact notified.
A	L-03	07-13-00	Low reading of 47.9 due to recent restoration of power.
TLD	Other	09-28-00	Collector noted apparent lightning strike approximately 3 inches from TLD L-213-3.

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Table 1. Airborne Particulates and Iodine Cartridges
 Collection: Air Particulates - Continuous; weekly exchange
 Iodine Cartridges - Continuous; biweekly exchange
 ODCM-
 Required LLDs: 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
01-06-00	326	3.6 ± 0.4; 0.8	-0.2 ± 0.3; 0.3	07-06-00	284	2.0 ± 0.3; 0.5	1.8 ± 0.3; 0.4
01-13-00	285	2.8 ± 0.4; 0.6	-	07-13-00	285	2.3 ± 0.4; 0.6	-
01-20-00	285	3.2 ± 0.4; 0.7	0.1 ± 0.4; 0.4	07-20-00	288	1.6 ± 0.3; 0.4	0.8 ± 0.4; 0.4
01-27-00	282	5.5 ± 0.5; 1.1	-	07-27-00	281	2.4 ± 0.3; 0.5	-
02-03-00	297	3.6 ± 0.4; 0.7	0.5 ± 0.5; 0.5	08-03-00	285	2.5 ± 0.4; 0.6	0.6 ± 0.4; 0.4
02-10-00	273	4.1 ± 0.5; 0.9	-	08-10-00	297	2.1 ± 0.3; 0.5	-
02-17-00	284	2.7 ± 0.4; 0.6	0.1 ± 0.6; 0.6	08-19-00	367	2.3 ± 0.3; 0.5	-0.1 ± 0.3; 0.3
02-24-00	286	3.3 ± 0.4; 0.7	-	08-24-00	196	3.3 ± 0.6; 0.8	-
03-02-00	296	2.3 ± 0.3; 0.5	-0.2 ± 0.5; 0.5	08-31-00	280	4.3 ± 0.5; 0.9	0.3 ± 0.5; 0.5
03-09-00	271	2.7 ± 0.4; 0.6	-	09-07-00	289	2.7 ± 0.3; 0.6	-
03-16-00	284	2.5 ± 0.4; 0.6	0.2 ± 0.3; 0.3	09-14-00	282	1.9 ± 0.3; 0.5	-1.1 ± 0.6; 0.6
03-23-00	286	1.8 ± 0.3; 0.5	-	09-21-00	302	2.9 ± 0.3; 0.6	-
03-30-00	280	1.3 ± 0.3; 0.4	-0.2 ± 0.4; 0.4	09-28-00	279	2.1 ± 0.3; 0.5	0.5 ± 0.4; 0.4
1st Qtr. Mean±s.d.		3.0±1.1	0.0±0.3	3rd Qtr. Mean±s.d.		2.5±0.7	0.4±0.9
04-06-00	289	2.1 ± 0.3; 0.5	-	10-05-00	280	3.4 ± 0.4; 0.7	-
04-13-00	284	1.8 ± 0.4; 0.5	0.4 ± 0.5; 0.5	10-12-00	285	2.1 ± 0.3; 0.5	-1.0 ± 0.5; 0.5
04-20-00	283	1.8 ± 0.4; 0.5	-	10-19-00	280	3.6 ± 0.4; 0.8	-
04-27-00	286	2.6 ± 0.4; 0.6	-0.2 ± 0.4; 0.4	10-26-00	287	5.1 ± 0.4; 1.0	-0.1 ± 0.3; 0.3
05-04-00	285	2.5 ± 0.4; 0.6	-	11-02-00	303	3.7 ± 0.4; 0.8	-
05-11-00	285	2.0 ± 0.4; 0.5	-1.2 ± 0.4; 0.4	11-09-00	286	2.7 ± 0.3; 0.6	-0.4 ± 0.4; 0.4
05-18-00	287	2.5 ± 0.3; 0.6	-	11-16-00	290	2.8 ± 0.4; 0.6	-
05-25-00	280	2.1 ± 0.4; 0.5	0.1 ± 0.5; 0.5	11-22-00	241	2.6 ± 0.5; 0.7	-0.3 ± 0.4; 0.4
06-01-00	296	1.5 ± 0.3; 0.4	-	11-30-00	329	4.3 ± 0.4; 0.9	-
06-08-00	277	1.7 ± 0.4; 0.5	0.3 ± 0.3; 0.3	12-07-00	283	2.1 ± 0.3; 0.5	0.4 ± 0.4; 0.4
06-15-00	284	2.2 ± 0.3; 0.5	-	12-14-00	284	4.1 ± 0.4; 0.9	-
06-22-00	290	1.5 ± 0.3; 0.4	0.2 ± 0.3; 0.3	12-21-00	291	3.6 ± 0.4; 0.8	-0.3 ± 0.3; 0.3
06-29-00	284	1.4 ± 0.3; 0.4	-	12-28-00	288	4.3 ± 0.5; 0.9	-
2nd Qtr. Mean±s.d.		2.0±0.4	-0.1±0.6	4th Qtr. Mean±s.d.		3.4±0.9	-0.3±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
 ODCM-
 Required LLDs: Gross Beta = 0.01, I-131 = 0.07 pCi/m³
 Units: 10⁻² 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
01-06-00	326	3.6 ± 0.4; 0.7	-0.4 ± 0.3; 0.3	07-06-00	96 ^c	1.5 ± 0.8; 0.8	-2.3 ± 0.4; 0.6
01-13-00	285	3.5 ± 0.4; 0.7	-	07-13-00	81 ^d	2.8 ± 1.0; 1.1	-
01-20-00	280	2.9 ± 0.4; 0.7	-0.0 ± 0.4; 0.4	07-20-00	293	1.5 ± 0.3; 0.4	0.8 ± 0.6; 0.6
01-27-00	258 ^b	5.6 ± 0.5; 1.1	-	07-27-00	281	2.5 ± 0.3; 0.6	-
02-03-00	297	3.8 ± 0.4; 0.8	-0.1 ± 0.4; 0.4	08-03-00	285	2.3 ± 0.4; 0.6	-0.2 ± 0.4; 0.4
02-10-00	273	4.0 ± 0.5; 0.9	-	08-10-00	297	1.4 ± 0.3; 0.4	-
02-17-00	284	2.9 ± 0.4; 0.7	0.5 ± 0.5; 0.5	08-19-00	361	2.4 ± 0.3; 0.5	-0.7 ± 0.4; 0.4
02-24-00	286	3.3 ± 0.4; 0.7	-	08-24-00	196	2.2 ± 0.5; 0.7	-
03-02-00	291	1.9 ± 0.3; 0.5	0.8 ± 0.5; 0.5	08-31-00	280	4.5 ± 0.5; 1.0	-0.2 ± 0.5; 0.5
03-09-00	273	2.7 ± 0.4; 0.6	-	09-07-00	289	2.7 ± 0.3; 0.6	-
03-16-00	283	2.1 ± 0.4; 0.5	-0.0 ± 0.4; 0.4	09-14-00	282	2.0 ± 0.3; 0.5	0.4 ± 0.5; 0.5
03-23-00	287	1.8 ± 0.3; 0.5	-	09-21-00	302	3.0 ± 0.3; 0.6	-
03-30-00	280	1.5 ± 0.3; 0.4	-0.2 ± 0.5; 0.5	09-28-00	279	2.1 ± 0.3; 0.5	0.4 ± 0.3; 0.3
1st Qtr. Mean±s.d.		3.0±1.1	0.1±0.4	3rd Qtr. Mean±s.d.		2.4±0.8	-0.3±1.0
04-06-00	289	2.3 ± 0.3; 0.5	-	10-05-00	280	3.2 ± 0.4; 0.7	-
04-13-00	284	1.7 ± 0.4; 0.5	0.3 ± 0.5; 0.5	10-12-00	285	2.4 ± 0.3; 0.5	0.3 ± 0.4; 0.4
04-20-00	283	1.7 ± 0.4; 0.5	-	10-19-00	280	4.2 ± 0.5; 0.9	-
04-27-00	286	2.4 ± 0.4; 0.6	0.2 ± 0.4; 0.4	10-26-00	287	5.2 ± 0.4; 1.0	-0.4 ± 0.5; 0.5
05-04-00	287	2.5 ± 0.4; 0.6	-	11-02-00	284	3.7 ± 0.4; 0.8	-
05-11-00	288	1.7 ± 0.3; 0.5	0.1 ± 0.4; 0.4	11-09-00	286	2.5 ± 0.3; 0.6	0.3 ± 0.4; 0.4
05-18-00	287	2.5 ± 0.3; 0.6	-	11-16-00	290	3.0 ± 0.4; 0.7	-
05-25-00	280	2.1 ± 0.4; 0.5	-0.8 ± 0.6; 0.6	11-22-00	241	2.7 ± 0.5; 0.7	0.4 ± 0.5; 0.5
06-01-00	296	1.9 ± 0.3; 0.5	-	11-30-00	329	4.5 ± 0.4; 0.9	-
06-08-00	278	1.5 ± 0.4; 0.5	-0.1 ± 0.3; 0.3	12-07-00	283	1.8 ± 0.3; 0.4	-0.3 ± 0.3; 0.3
06-15-00	283	2.3 ± 0.3; 0.5	-	12-14-00	282	4.0 ± 0.4; 0.9	-
06-22-00	285	1.6 ± 0.3; 0.4	-0.2 ± 0.4; 0.4	12-21-00	290	3.7 ± 0.4; 0.8	0.2 ± 0.3; 0.3
06-29-00	284	1.6 ± 0.4; 0.5	-	12-28-00	286	4.1 ± 0.4; 0.9	-
2nd Qtr. Mean±s.d.		2.0±0.4	-0.1±0.4	4th Qtr. Mean±s.d.		3.5±0.9	0.1±0.3

^a Volume based on two week collection period.

^b Volume low; no apparent reason for low meter reading of 152.1.

^c Volume low due to power outage; station notified.

^d Volume low due to recent power restoration.

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Table 1. Airborne Particulates and Iodine Cartridges
 Collection: Air Particulates - Continuous; weekly exchange
 Iodine Cartridges - Continuous; biweekly exchange
 ODCM-
 Required LLDs: 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
01-06-00	NS ^b	-	-	07-06-00	279	2.2 ± 0.4; 0.5	0.3 ± 0.4; 0.4
01-13-00	126 ^c	2.9 ± 0.7; 0.8	-	07-13-00	286	2.6 ± 0.4; 0.6	-
01-20-00	282	2.9 ± 0.4; 0.7	0.0 ± 0.6; 0.6	07-20-00	299	1.9 ± 0.4; 0.5	0.3 ± 0.4; 0.4
01-27-00	283	5.2 ± 0.5; 1.1	-	07-27-00	281	2.5 ± 0.3; 0.6	-
02-03-00	297	3.5 ± 0.4; 0.7	-0.1 ± 0.5; 0.5	08-03-00	285	2.1 ± 0.4; 0.5	0.2 ± 0.4; 0.4
02-10-00	273	4.1 ± 0.5; 0.9	-	08-10-00	297	2.1 ± 0.3; 0.5	-
02-17-00	284	2.5 ± 0.4; 0.6	-0.3 ± 0.4; 0.4	08-19-00	367	2.0 ± 0.3; 0.5	-0.3 ± 0.4; 0.4
02-24-00	276	3.5 ± 0.4; 0.8	-	08-24-00	196	2.3 ± 0.5; 0.7	-
03-02-00	297	2.5 ± 0.3; 0.6	-1.0 ± 0.5; 0.5	08-31-00	276	3.5 ± 0.5; 0.8	-0.3 ± 0.5; 0.5
03-09-00	273	3.3 ± 0.4; 0.7	-	09-07-00	284	2.9 ± 0.4; 0.6	-
03-16-00	283	2.5 ± 0.4; 0.6	0.2 ± 0.4; 0.4	09-14-00	282	1.9 ± 0.3; 0.5	-0.4 ± 0.4; 0.4
03-23-00	288	1.7 ± 0.3; 0.4	-	09-21-00	302	2.8 ± 0.3; 0.6	-
03-30-00	280	1.4 ± 0.3; 0.4	-0.1 ± 0.5; 0.5	09-28-00	279	2.1 ± 0.3; 0.5	-0.6 ± 0.4; 0.4
1st Qtr. Mean±s.d.		3.0±1.0	-0.2±0.4	3rd Qtr. Mean±s.d.		2.4±0.5	-0.1±0.4
04-06-00	288	2.2 ± 0.3; 0.5	-	10-05-00	279	3.1 ± 0.4; 0.7	-
04-13-00	286	1.7 ± 0.4; 0.5	0.2 ± 0.5; 0.5	10-12-00	284	2.3 ± 0.3; 0.5	-0.1 ± 0.5; 0.5
04-20-00	283	1.6 ± 0.4; 0.5	-	10-19-00	282	3.4 ± 0.4; 0.8	-
04-27-00	286	2.4 ± 0.4; 0.6	-0.1 ± 0.4; 0.4	10-26-00	286	5.3 ± 0.4; 1.0	-0.3 ± 0.4; 0.4
05-04-00	287	2.2 ± 0.4; 0.5	-	11-02-00	285	3.5 ± 0.4; 0.7	-
05-11-00	287	1.8 ± 0.4; 0.5	0.4 ± 0.4; 0.4	11-09-00	286	2.2 ± 0.3; 0.5	0.0 ± 0.4; 0.4
05-18-00	287	2.6 ± 0.4; 0.6	-	11-16-00	285	2.5 ± 0.4; 0.6	-
05-25-00	280	2.2 ± 0.4; 0.5	0.5 ± 0.4; 0.4	11-22-00	241	2.7 ± 0.5; 0.7	-0.3 ± 0.4; 0.4
06-01-00	296	1.7 ± 0.3; 0.4	-	11-30-00	329	5.0 ± 0.5; 1.0	-
06-08-00	278	1.6 ± 0.4; 0.5	-0.2 ± 0.3; 0.3	12-07-00	283	1.6 ± 0.3; 0.4	0.2 ± 0.3; 0.3
06-15-00	278	2.0 ± 0.3; 0.5	-	12-14-00	285	4.0 ± 0.4; 0.8	-
06-22-00	286	1.5 ± 0.3; 0.4	-0.1 ± 0.4; 0.4	12-21-00	290	3.5 ± 0.4; 0.8	0.1 ± 0.3; 0.3
06-29-00	283	1.4 ± 0.3; 0.4	-	12-28-00	287	4.2 ± 0.4; 0.9	-
2nd Qtr. Mean±s.d.		1.9±0.4	0.1±0.3	4th Qtr. Mean±s.d.		3.3±1.1	-0.1±0.2

^a Volume based on two week collection period.

^b "NS" = No sample; power off at location.

^c Volume low; meter reading of 73.5 due to recent power restoration.

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Table 1. Airborne Particulates and Iodine Cartridges
Collection: Air Particulates - Continuous; weekly exchange
Iodine Cartridges - Continuous; biweekly exchange
ODCM-
Required LLDs: 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
01-06-00	326	3.0 ± 0.3; 0.6	-0.0 ± 0.3; 0.3	07-06-00	284	1.9 ± 0.3; 0.5	-0.3 ± 0.3; 0.3
01-13-00	285	3.2 ± 0.4; 0.7	-	07-13-00	285	2.3 ± 0.4; 0.6	-
01-20-00	285	3.3 ± 0.4; 0.7	0.2 ± 0.3; 0.3	07-20-00	284	2.1 ± 0.4; 0.5	0.1 ± 0.3; 0.3
01-27-00	282	5.5 ± 0.5; 1.1	-	07-27-00	281	2.6 ± 0.3; 0.6	-
02-03-00	297	3.8 ± 0.4; 0.8	-0.0 ± 0.4; 0.4	08-03-00	285	2.5 ± 0.4; 0.6	-0.1 ± 0.4; 0.4
02-10-00	273	4.1 ± 0.5; 0.9	-	08-10-00	297	2.4 ± 0.3; 0.5	-
02-17-00	284	3.1 ± 0.4; 0.7	-0.2 ± 0.5; 0.5	08-19-00	373	2.7 ± 0.3; 0.6	-0.9 ± 0.3; 0.3
02-24-00	286	3.3 ± 0.4; 0.7	-	08-24-00	196	2.7 ± 0.5; 0.7	-
03-02-00	296	2.0 ± 0.3; 0.5	0.6 ± 0.5; 0.5	08-31-00	275	4.0 ± 0.5; 0.9	0.2 ± 0.5; 0.5
03-09-00	273	1.4 ± 0.3; 0.4	-	09-07-00	284	3.2 ± 0.4; 0.7	-
03-16-00	NS ^b	-	0.9 ± 0.9; 0.9	09-14-00	282	2.0 ± 0.3; 0.5	0.4 ± 0.4; 0.4
03-23-00	287	2.1 ± 0.3; 0.5	-	09-21-00	302	3.1 ± 0.3; 0.7	-
03-30-00	280	1.3 ± 0.3; 0.4	-0.4 ± 0.5; 0.5	09-28-00	279	2.1 ± 0.3; 0.5	0.3 ± 0.3; 0.4
1st Qtr. Mean±s.d.		3.0±1.2	0.1±0.5	3rd Qtr. Mean±s.d.		2.6±0.6	-0.0±0.4
04-06-00	289	2.2 ± 0.3; 0.5	-	10-05-00	280	3.2 ± 0.4; 0.7	-
04-13-00	284	1.7 ± 0.4; 0.5	0.2 ± 0.5; 0.5	10-12-00	285	2.5 ± 0.3; 0.6	-0.6 ± 0.5; 0.5
04-20-00	278	1.6 ± 0.4; 0.5	-	10-19-00	276	3.5 ± 0.4; 0.8	-
04-27-00	300	2.7 ± 0.4; 0.6	0.4 ± 0.4; 0.4	10-26-00	287	5.1 ± 0.4; 1.0	-0.5 ± -0.5; 0.5
05-04-00	276	2.3 ± 0.4; 0.6	-	11-02-00	284	3.8 ± 0.4; 0.8	-
05-11-00	285	1.9 ± 0.4; 0.5	-0.7 ± 0.4; 0.5	11-09-00	286	2.6 ± 0.3; 0.6	-0.1 ± 0.4; 0.4
05-18-00	287	2.8 ± 0.4; 0.6	-	11-16-00	280	2.8 ± 0.4; 0.6	-
05-25-00	289	2.1 ± 0.4; 0.5	-0.9 ± 0.5; 0.5	11-22-00	241	3.0 ± 0.5; 0.7	-0.3 ± 0.4; 0.4
06-01-00	296	1.6 ± 0.3; 0.4	-	11-30-00	329	5.6 ± 0.5; 1.1	-
06-08-00	278	2.1 ± 0.4; 0.5	0.2 ± 0.3; 0.3	12-07-00	283	2.2 ± 0.3; 0.5	0.4 ± 0.3; 0.3
06-15-00	279	2.2 ± 0.3; 0.5	-	12-14-00	285	4.1 ± 0.4; 0.9	-
06-22-00	290	1.5 ± 0.3; 0.4	0.4 ± 0.4; 0.4	12-21-00	291	4.0 ± 0.5; 0.8	0.4 ± 0.3; 0.3
06-29-00	284	1.7 ± 0.4; 0.5	-	12-28-00	286	4.6 ± 0.5; 0.9	-
2nd Qtr. Mean±s.d.		2.0±0.4	-0.1±0.6	4th Qtr. Mean±s.d.		3.6±1.0	-0.1±0.4

^a Volume based on two week collection period.

^b "NS" = No sample. Pump found malfunctioning; not enough running time for viable filter volume. Charcoal cartridge analyzed with one-week volume of 284 m³. Pump removed for repairs.

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Table 1. Airborne Particulates and Iodine Cartridges
 Collection: Air Particulates - Continuous; weekly exchange
 Iodine Cartridges - Continuous; biweekly exchange
 ODCM-
 Required LLDs: 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
01-06-00	330	3.4 ± 0.4; 0.7	-0.0 ± 0.3; 0.3	07-06-00	289	2.1 ± 0.3; 0.5	0.8 ± 0.3; 0.3
01-13-00	285	3.7 ± 0.4; 0.8	-	07-13-00	285	2.6 ± 0.4; 0.6	-
01-20-00	285	3.0 ± 0.4; 0.7	-0.2 ± 0.4; 0.4	07-20-00	290	1.8 ± 0.4; 0.5	-0.1 ± 0.4; 0.4
01-27-00	283	5.8 ± 0.5; 1.2	-	07-27-00	281	2.7 ± 0.3; 0.6	-
02-03-00	297	3.1 ± 0.4; 0.7	-0.1 ± 0.4; 0.4	08-03-00	282	2.8 ± 0.4; 0.7	0.3 ± 0.3; 0.3
02-10-00	271	4.2 ± 0.5; 0.9	-	08-10-00	301	2.2 ± 0.3; 0.5	-
02-17-00	286	3.1 ± 0.4; 0.7	-0.0 ± 0.5; 0.5	08-19-00	367	2.4 ± 0.3; 0.5	-0.2 ± 0.4; 0.4
02-24-00	290	3.6 ± 0.4; 0.8	-	08-24-00	196	2.2 ± 0.5; 0.7	-
03-02-00	297	1.1 ± 0.3; 0.4	0.1 ± 0.4; 0.4	08-31-00	281	4.5 ± 0.5; 0.9	-1.6 ± 0.6; 0.7
03-09-00	273	2.9 ± 0.4; 0.6	-	09-07-00	283	2.9 ± 0.4; 0.6	-
03-16-00	283	2.6 ± 0.4; 0.6	0.6 ± 0.5; 0.5	09-14-00	282	2.0 ± 0.3; 0.5	0.4 ± 0.4; 0.4
03-23-00	288	1.6 ± 0.3; 0.4	-	09-21-00	302	2.9 ± 0.3; 0.6	-
03-30-00	280	1.6 ± 0.3; 0.4	0.2 ± 0.4; 0.4	09-28-00	274	2.6 ± 0.3; 0.6	-0.7 ± 0.4; 0.5
1st Qtr. Mean±s.d.		3.0±1.2	0.1±0.3	3rd Qtr. Mean±s.d.		2.6±0.7	-0.1±0.8
04-06-00	288	2.7 ± 0.4; 0.6	-	10-05-00	285	3.4 ± 0.4; 0.7	-
04-13-00	286	1.4 ± 0.3; 0.4	0.2 ± 0.5; 0.5	10-12-00	284	2.6 ± 0.3; 0.6	0.2 ± 0.5; 0.5
04-20-00	283	1.5 ± 0.4; 0.4	-	10-19-00	282	4.3 ± 0.5; 0.9	-
04-27-00	286	2.7 ± 0.4; 0.6	0.2 ± 0.4; 0.4	10-26-00	286	5.5 ± 0.4; 1.1	-0.9 ± 0.3; 0.4
05-04-00	283	2.2 ± 0.4; 0.5	-	11-02-00	285	3.4 ± 0.4; 0.7	-
05-11-00	287	2.2 ± 0.4; 0.5	-0.6 ± 0.4; 0.4	11-09-00	286	2.9 ± 0.4; 0.6	0.0 ± 0.3; 0.3
05-18-00	288	2.5 ± 0.3; 0.6	-	11-16-00	285	3.4 ± 0.4; 0.7	-
05-25-00	280	2.4 ± 0.4; 0.6	-0.3 ± 0.4; 0.4	11-22-00	241	3.0 ± 0.5; 0.7	0.4 ± 0.5; 0.5
06-01-00	296	1.9 ± 0.3; 0.5	-	11-30-00	329	5.5 ± 0.5; 1.1	-
06-08-00	278	1.9 ± 0.4; 0.5	0.2 ± 0.4; 0.4	12-07-00	283	2.2 ± 0.3; 0.5	0.5 ± 0.4; 0.4
06-15-00	282	2.2 ± 0.3; 0.5	-	12-14-00	290	3.8 ± 0.4; 0.8	-
06-22-00	285	1.7 ± 0.3; 0.4	-0.1 ± 0.4; 0.4	12-21-00	288	4.5 ± 0.5; 0.9	-0.1 ± 0.3; 0.3
06-29-00	279	1.7 ± 0.4; 0.5	-	12-28-00	285	4.8 ± 0.5; 1.0	-
2nd Qtr. Mean±s.d.		2.1±0.4	-0.1±0.3	4th Qtr. Mean±s.d.		3.8±1.1	0.0±0.5

^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

<u>L-01 Nearsite No. 1</u>				
2000 Collection Period	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.
Lab Code	LAP-2653	LAP-5451	LAP-8393	LAP-10866,7
Volume	3,743	3,717	3,724	3,735
Mn-54	-1.4 ± 3.4; 3.4	-0.8 ± 5.8; 5.8	1.9 ± 4.2; 4.2	-0.0 ± 4.4; 4.4
Fe-59	7.7 ± 7.2; 7.3	-4.5 ± 9.3; 9.3	-8.4 ± 9.7; 9.8	2.3 ± 9.1; 9.1
Co-58	0.2 ± 3.4; 3.4	2.0 ± 5.2; 5.2	-3.5 ± 4.3; 4.3	1.5 ± 4.0; 4.1
Co-60	4.3 ± 4.4; 4.5	-0.8 ± 6.1; 6.1	-0.4 ± 6.6; 6.6	2.4 ± 6.4; 6.4
Zn-65	-14.4 ± 11.3; 11.6	4.2 ± 14.4; 14.4	-10.5 ± 10.1; 10.2	0.1 ± 8.5; 8.5
Zr/Nb-95	-3.0 ± 4.0; 4.0	0.7 ± 6.0; 6.0	0.7 ± 3.6; 3.6	-1.0 ± 4.2; 4.2
Cs-134	-1.0 ± 3.2; 3.2	-4.5 ± 6.2; 6.2	-3.8 ± 4.7; 4.8	-0.4 ± 5.5; 5.5
Cs-137	-0.6 ± 4.2; 4.2	-0.6 ± 5.0; 5.1	3.0 ± 4.0; 4.0	5.6 ± 4.5; 4.6
Ba/La-140	-21.0 ± 5.1; 6.3	-16.1 ± 9.3; 9.8	-43.9 ± 6.2; 10.0	0.7 ± 6.4; 6.4
<u>L-03 Onsite No. 3</u>				
2000 Collection Period	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.
Lab Code	LAP-2654	LAP-5453	LAP-8394	LAP-10868
Volume	3,710	3,717	3,328	3,712
Mn-54	1.7 ± 4.3; 4.3	2.2 ± 2.9; 2.9	-3.1 ± 6.0; 6.0	-0.4 ± 6.9; 6.9
Fe-59	1.4 ± 9.3; 9.3	3.6 ± 7.1; 7.1	24.5 ± 11.5; 12.3	-37.7 ± 18.0; 19.2
Co-58	1.6 ± 2.9; 2.9	-1.1 ± 3.6; 3.6	-3.9 ± 4.5; 4.6	-3.6 ± 4.2; 4.3
Co-60	5.7 ± 5.7; 5.8	-0.2 ± 3.8; 3.8	1.8 ± 7.2; 7.2	-4.2 ± 8.2; 8.2
Zn-65	1.0 ± 9.4; 9.4	8.1 ± 6.2; 6.4	1.2 ± 10.2; 10.2	-10.1 ± 13.9; 14.0
Zr/Nb-95	-1.2 ± 3.3; 3.4	0.7 ± 3.4; 3.4	-3.6 ± 7.9; 8.0	-6.0 ± 6.6; 6.6
Cs-134	1.0 ± 4.6; 4.6	-1.3 ± 3.6; 3.6	1.4 ± 5.6; 5.6	0.8 ± 8.0; 8.0
Cs-137	-0.2 ± 4.3; 4.3	-1.1 ± 3.4; 3.4	1.0 ± 5.5; 5.5	0.7 ± 6.9; 6.9
Ba/La-140	-10.1 ± 13.0; 13.1	5.4 ± 3.9; 4.1	-41.8 ± 5.9; 9.5	-92.1 ± 9.1; 18.7

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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>				
2000 Collection Period	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.
Lab Code	LAP-2655	LAP-5454	LAP-8395	LAP-10869
Volume	3,248	3,712	3,720	3,711
Mn-54	2.9 ± 4.7; 4.8	7.8 ± 5.0; 5.2	-4.2 ± 4.9; 4.9	5.3 ± 5.7; 5.7
Fe-59	9.1 ± 7.8; 8.0	-1.8 ± 10.5; 10.5	8.0 ± 10.1; 10.2	9.8 ± 13.4; 13.6
Co-58	-1.8 ± 4.1; 4.1	-14.2 ± 5.7; 6.3	-0.3 ± 4.7; 4.7	11.0 ± 5.2; 5.5
Co-60	0.5 ± 5.0; 5.0	1.2 ± 7.0; 7.0	3.4 ± 4.4; 4.5	6.2 ± 8.0; 8.1
Zn-65	-9.6 ± 10.8; 10.9	-9.9 ± 9.9; 10.1	-9.5 ± 8.0; 8.2	4.0 ± 12.5; 12.5
Zr/Nb-95	6.1 ± 4.5; 4.6	-14.0 ± 4.6; 5.3	6.1 ± 6.1; 6.2	3.6 ± 5.1; 5.1
Cs-134	-2.7 ± 4.8; 4.8	-3.0 ± 6.4; 6.4	-0.2 ± 5.4; 5.4	-1.5 ± 6.9; 6.9
Cs-137	0.5 ± 4.6; 4.6	0.9 ± 4.7; 4.7	2.4 ± 4.9; 4.9	-1.3 ± 6.5; 6.5
Ba/La-140	22.9 ± 4.8; 6.3	-23.9 ± 5.1; 6.7	10.6 ± 4.3; 4.7	-92.3 ± 9.1; 18.8
<u>L-06 Nearsite No. 6</u>				
2000 Collection Period	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.
Lab Code	LAP-2656	LAP-5455	LAP-8396	LAP-10870
Volume	3,471	3,723	3,715	3,702
Mn-54	0.4 ± 3.4; 3.4	0.7 ± 5.6; 5.6	-1.5 ± 4.3; 4.3	-4.6 ± 6.8; 6.8
Fe-59	5.6 ± 8.0; 8.1	-1.3 ± 13.0; 13.0	-6.4 ± 7.8; 7.9	1.5 ± 16.5; 16.5
Co-58	1.6 ± 4.4; 4.4	0.7 ± 4.3; 4.3	-0.1 ± 4.2; 4.2	-5.1 ± 6.2; 6.3
Co-60	-2.0 ± 5.7; 5.7	-4.4 ± 7.2; 7.3	-7.9 ± 5.8; 6.0	4.1 ± 6.0; 6.1
Zn-65	-7.6 ± 9.5; 9.6	0.7 ± 12.1; 12.1	9.5 ± 9.7; 9.8	10.1 ± 13.9; 14.0
Zr/Nb-95	-4.2 ± 4.3; 4.4	-1.0 ± 4.6; 4.6	-4.0 ± 6.5; 6.5	-2.7 ± 5.7; 5.8
Cs-134	-2.3 ± 5.3; 5.3	2.7 ± 5.8; 5.8	-1.0 ± 4.9; 4.9	6.9 ± 7.2; 7.3
Cs-137	-0.2 ± 4.3; 4.3	0.8 ± 5.0; 5.0	6.9 ± 5.1; 5.3	2.1 ± 6.6; 6.6
Ba/La-140	-3.5 ± 4.3; 4.4	-13.8 ± 7.3; 7.7	22.3 ± 4.8; 6.2	49.5 ± 5.4; 10.3

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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/m ³
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/m ³
Units:	10 ⁻⁴ pCi/m ³

Sample Description and Concentration

<u>L-10 (C) Streator</u>				
2000 Collection Period	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.
Lab Code	LAP-2657	LAP-5456	LAP-8397	LAP-10871
Volume	3,756	3,708	3,719	3,718
Mn-54	-2.2 ± 5.0; 5.0	5.3 ± 4.7; 4.8	-2.3 ± 4.2; 4.2	1.5 ± 6.5; 6.5
Fe-59	5.3 ± 7.6; 7.6	14.0 ± 10.4; 10.7	1.2 ± 11.1; 11.1	-11.3 ± 18.2; 18.4
Co-58	0.3 ± 5.2; 5.2	-0.5 ± 4.2; 4.2	0.5 ± 3.9; 3.9	3.9 ± 3.9; 3.9
Co-60	-0.7 ± 5.1; 5.1	-0.8 ± 6.7; 6.7	2.7 ± 6.6; 6.6	12.6 ± 6.7; 7.1
Zn-65	-22.4 ± 12.2; 12.8	1.3 ± 11.0; 11.0	-2.8 ± 9.4; 9.5	-3.0 ± 13.2; 13.2
Zr/Nb-95	6.0 ± 4.8; 5.0	8.8 ± 4.2; 4.4	-6.6 ± 4.2; 4.3	-3.6 ± 11.2; 11.2
Cs-134	0.6 ± 5.6; 5.6	-2.3 ± 5.7; 5.8	3.1 ± 5.3; 5.3	1.8 ± 7.6; 7.6
Cs-137	1.5 ± 4.8; 4.8	-3.1 ± 5.9; 5.9	2.1 ± 4.4; 4.4	6.7 ± 7.4; 7.5
Ba/La-140	-15.8 ± 6.1; 6.7	-48.1 ± 5.8; 10.4	10.7 ± 4.3; 4.7	47.3 ± 8.6; 12.0

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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-16 (C) Lowery Dairy

Date Collected	01-06-00	02-03-00
Lab Code	LMI-127	NS ^a
I-131	0.15 ± 0.20; 0.20	-
Mn-54	1.4 ± 3.7; 3.7	-
Fe-59	2.1 ± 7.9; 7.9	-
Co-58	-0.3 ± 3.5; 3.5	-
Co-60	-1.8 ± 5.0; 5.0	-
Zn-65	-2.8 ± 8.0; 8.0	-
Zr/Nb-95	-0.5 ± 3.9; 3.9	-
Cs-134	0.5 ± 4.5; 4.5	-
Cs-137	1.3 ± 4.0; 4.0	-
Ba/La-140	-0.9 ± 3.1; 3.1	-

^a "NS" = No sample; farmer sold cows.

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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	02-24-00	03-02-00	04-06-00	05-04-00
Lab Code	LMI-985 ^a	LMI-1118	LMI-2030	LMI-3031
I-131	-0.07 ± 0.18; 0.18	0.07 ± 0.15; 0.15	-0.07 ± 0.19; 0.19	0.03 ± 0.17; 0.17
Mn-54	0.6 ± 1.7; 1.7	-1.5 ± 2.7; 2.7	1.9 ± 4.1; 4.1	-1.8 ± 4.1; 4.1
Fe-59	4.2 ± 3.4; 3.4	0.7 ± 5.6; 5.6	-4.1 ± 7.5; 7.5	-4.9 ± 10.4; 10.4
Co-58	0.6 ± 1.7; 1.7	-0.4 ± 2.3; 2.3	-1.1 ± 3.8; 3.8	1.5 ± 3.1; 3.1
Co-60	1.6 ± 1.7; 1.7	2.0 ± 2.5; 2.5	2.7 ± 4.2; 4.2	-3.0 ± 4.5; 4.6
Zn-65	-2.4 ± 4.2; 4.2	-18.1 ± 7.2; 7.6	0.3 ± 8.9; 8.9	-7.3 ± 9.9; 10.0
Zr/Nb-95	-0.9 ± 1.8; 1.8	-1.1 ± 2.6; 2.7	-1.6 ± 4.6; 4.6	0.5 ± 3.4; 3.4
Cs-134	-0.0 ± 1.9; 1.9	-2.3 ± 2.6; 2.6	0.5 ± 4.3; 4.3	1.1 ± 3.3; 3.3
Cs-137	0.8 ± 1.8; 1.8	-0.3 ± 2.5; 2.5	-1.1 ± 3.9; 3.9	0.3 ± 3.3; 3.3
Ba/La-140	-1.3 ± 1.6; 1.6	-2.4 ± 2.3; 2.3	4.8 ± 3.6; 3.7	-2.8 ± 4.6; 4.6
Date Collected	05-18-00	06-01-00	06-15-00	06-29-00
Lab Code	LMI-3452	LMI-3664	LMI-4014	LMI-4454
I-131	0.00 ± 0.18; 0.18	-0.06 ± 0.21; 0.21	0.07 ± 0.17; 0.17	0.12 ± 0.17; 0.18
Mn-54	-1.2 ± 3.5; 3.5	0.5 ± 1.8; 1.8	1.3 ± 2.1; 2.1	2.4 ± 3.1; 3.1
Fe-59	4.6 ± 7.4; 7.5	3.7 ± 3.5; 3.6	-1.0 ± 5.4; 5.4	1.8 ± 6.1; 6.1
Co-58	1.5 ± 3.3; 3.3	-0.3 ± 1.6; 1.6	-0.5 ± 2.0; 2.0	1.6 ± 2.7; 2.7
Co-60	-0.4 ± 3.9; 3.9	-0.4 ± 2.3; 2.3	-1.4 ± 2.6; 2.6	0.9 ± 3.8; 3.8
Zn-65	4.7 ± 7.2; 7.3	-0.7 ± 4.1; 4.1	-2.9 ± 5.5; 5.6	1.3 ± 6.3; 6.3
Zr/Nb-95	1.8 ± 2.8; 2.8	0.5 ± 1.9; 1.9	-0.8 ± 2.5; 2.5	-0.7 ± 3.0; 3.0
Cs-134	-1.4 ± 3.3; 3.3	2.2 ± 2.0; 2.1	-0.1 ± 2.3; 2.3	-3.1 ± 3.3; 3.3
Cs-137	1.5 ± 2.9; 2.9	1.1 ± 1.6; 1.6	-2.2 ± 2.3; 2.3	0.0 ± 2.8; 2.8
Ba/La-140	0.6 ± 3.1; 3.1	-0.8 ± 1.9; 1.9	-0.7 ± 1.8; 1.8	-5.4 ± 3.3; 3.3

^a Dairy added on 02-24-2000 to replace Lowery Dairy (L-16).

Table 3. Milk		LASALLE
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	07-13-00	07-27-00	08-10-00	08-24-00
Lab Code	LMI-4994	LMI-5467	LMI-5824	LMI-6203
I-131	-0.07 ± 0.18; 0.18	-0.20 ± 0.18; 0.19	0.01 ± 0.16; 0.16	0.07 ± 0.18; 0.18
Mn-54	-0.5 ± 1.2; 1.2	0.3 ± 1.5; 1.5	1.3 ± 3.0; 3.0	-1.4 ± 2.8; 2.8
Fe-59	0.6 ± 2.5; 2.5	-1.7 ± 3.1; 3.1	-3.4 ± 7.4; 7.4	-3.0 ± 6.5; 6.5
Co-58	-0.3 ± 1.2; 1.2	-0.5 ± 1.5; 1.5	1.1 ± 2.7; 2.7	1.3 ± 2.7; 2.7
Co-60	0.4 ± 1.5; 1.5	0.8 ± 1.8; 1.8	1.0 ± 3.2; 3.2	-1.6 ± 2.9; 2.9
Zn-65	-0.1 ± 3.0; 3.0	0.6 ± 3.5; 3.5	-2.3 ± 7.2; 7.2	-1.1 ± 8.2; 8.2
Zr/Nb-95	0.6 ± 1.4; 1.4	0.0 ± 1.6; 1.6	3.4 ± 2.7; 2.8	-3.5 ± 2.9; 2.9
Cs-134	0.0 ± 1.4; 1.4	-0.1 ± 1.7; 1.7	-0.4 ± 3.3; 3.3	0.0 ± 3.1; 3.1
Cs-137	0.2 ± 1.2; 1.2	0.7 ± 1.4; 1.4	-2.8 ± 2.9; 2.9	-0.8 ± 2.5; 2.5
Ba/La-140	-1.2 ± 1.3; 1.3	-0.9 ± 1.6; 1.6	0.7 ± 3.2; 3.2	-0.9 ± 2.9; 2.9
Date Collected	09-07-00	09-21-00	10-05-00	10-19-00
Lab Code	LMI-6527	LMI-6924	LMI-7372	LMI-8146
I-131	0.02 ± 0.18; 0.18	-0.02 ± 0.12; 0.12	0.14 ± 0.17; 0.17	-0.00 ± 0.15; 0.15
Mn-54	-0.9 ± 1.8; 1.8	0.0 ± 2.2; 2.2	2.5 ± 2.1; 2.1	-0.3 ± 3.0; 3.0
Fe-59	-2.3 ± 4.0; 4.0	4.3 ± 4.3; 4.3	0.1 ± 4.1; 4.1	3.0 ± 6.9; 6.9
Co-58	-0.2 ± 1.9; 1.9	1.3 ± 1.8; 1.8	0.6 ± 1.7; 1.7	2.3 ± 2.8; 2.8
Co-60	1.8 ± 1.9; 2.0	2.6 ± 2.5; 2.5	-2.1 ± 2.2; 2.2	1.5 ± 4.3; 4.3
Zn-65	0.9 ± 4.3; 4.3	-3.5 ± 5.5; 5.6	-0.6 ± 4.3; 4.3	-2.4 ± 7.7; 7.7
Zr/Nb-95	1.0 ± 1.9; 1.9	1.8 ± 1.9; 1.9	0.2 ± 2.0; 2.0	1.8 ± 3.2; 3.2
Cs-134	1.0 ± 2.0; 2.0	0.3 ± 2.1; 2.1	0.8 ± 2.6; 2.6	-1.5 ± 3.7; 3.7
Cs-137	1.0 ± 1.9; 1.9	1.0 ± 1.9; 1.9	-0.2 ± 1.6; 1.6	0.7 ± 2.9; 2.9
Ba/La-140	-1.2 ± 1.8; 1.9	-0.6 ± 1.5; 1.5	-0.8 ± 1.3; 1.3	1.7 ± 3.6; 3.6

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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	11-02-00	12-07-00
Lab Code	LMI-8576	LMI-9661
I-131	-0.09 ± 0.19; 0.20	-0.15 ± 0.19; 0.19
Mn-54	0.2 ± 3.1; 3.1	-1.5 ± 3.8; 3.8
Fe-59	8.4 ± 6.5; 6.6	0.9 ± 6.5; 6.5
Co-58	1.7 ± 3.3; 3.3	-1.2 ± 3.4; 3.4
Co-60	-1.7 ± 3.1; 3.1	-2.2 ± 4.2; 4.2
Zn-65	-3.0 ± 7.2; 7.2	-7.2 ± 8.7; 8.7
Zr/Nb-95	0.3 ± 2.8; 2.8	1.4 ± 3.8; 3.9
Cs-134	-2.2 ± 3.6; 3.6	-2.6 ± 3.6; 3.6
Cs-137	0.9 ± 2.7; 2.7	1.8 ± 3.0; 3.0
Ba/La-140	-2.3 ± 3.0; 3.1	0.4 ± 3.2; 3.2

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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	05-17-00	05-17-00	05-17-00	05-17-00
Lab Code	LF-3440	LF-3441	LF-3442	LF-3443
Type	Carp	Channel Catfish	Freshwater Drum	Smallmouth Bass
Mn-54	0.3 ± 0.5; 0.5	0.9 ± 0.7; 0.7	0.7 ± 0.5; 0.5	0.4 ± 0.7; 0.7
Fe-59	1.1 ± 1.7; 1.7	1.9 ± 1.4; 1.4	2.1 ± 1.5; 1.5	1.4 ± 1.4; 1.4
Co-58	-0.1 ± 0.5; 0.5	0.1 ± 0.6; 0.6	0.1 ± 0.6; 0.6	0.0 ± 0.7; 0.7
Co-60	0.5 ± 0.7; 0.7	0.1 ± 1.0; 1.0	0.2 ± 0.7; 0.7	0.4 ± 0.8; 0.8
Zn-65	0.3 ± 1.4; 1.4	-1.3 ± 2.0; 2.0	-0.9 ± 1.5; 1.5	2.1 ± 1.6; 1.6
Zr/Nb-95	-1.7 ± 0.9; 1.0	-1.2 ± 0.8; 0.8	0.4 ± 0.5; 0.5	0.1 ± 0.6; 0.6
Cs-134	0.1 ± 0.8; 0.8	-0.3 ± 0.8; 0.8	-0.3 ± 0.6; 0.6	0.5 ± 0.7; 0.7
Cs-137	0.4 ± 0.6; 0.6	0.1 ± 0.7; 0.7	-0.5 ± 0.6; 0.6	0.3 ± 0.8; 0.8
Ba/La-140	-1.1 ± 0.5; 0.6	-2.5 ± 0.7; 0.8	1.3 ± 0.5; 0.5	-0.7 ± 0.6; 0.6
Date Collected	10-20-00	10-20-00	10-20-00	10-20-00
Lab Code	LF-8136	LF-8137	LF-8138	LF-8139
Type	Channel Catfish	Smallmouth Buffalo	Golden Redhorse	Gizzard Shad
Mn-54	-0.5 ± 0.7; 0.7	-0.1 ± 0.7; 0.7	-0.1 ± 0.9; 0.9	0.5 ± 1.1; 1.1
Fe-59	0.4 ± 1.7; 1.7	-0.6 ± 1.4; 1.4	-0.4 ± 2.0; 2.0	0.0 ± 2.4; 2.4
Co-58	0.3 ± 0.6; 0.6	-0.0 ± 0.6; 0.6	-0.4 ± 0.7; 0.7	-0.6 ± 0.9; 0.9
Co-60	0.1 ± 0.8; 0.8	0.3 ± 0.7; 0.7	-0.2 ± 1.1; 1.1	0.1 ± 1.2; 1.2
Zn-65	-0.1 ± 1.9; 1.9	1.4 ± 1.5; 1.5	1.6 ± 2.1; 2.1	-0.6 ± 2.4; 2.4
Zr/Nb-95	-0.1 ± 0.6; 0.6	-0.6 ± 0.6; 0.6	0.1 ± 0.8; 0.8	-1.5 ± 1.0; 1.0
Cs-134	-0.2 ± 0.8; 0.8	-0.6 ± 0.7; 0.7	0.3 ± 0.8; 0.8	-0.2 ± 1.3; 1.3
Cs-137	-0.0 ± 0.6; 0.6	0.0 ± 0.6; 0.6	0.0 ± 0.8; 0.8	0.4 ± 1.1; 1.1
Ba/La-140	-0.3 ± 0.5; 0.5	0.2 ± 0.7; 0.7	-1.1 ± 1.1; 1.1	0.9 ± 1.1; 1.1

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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	05-17-00	05-17-00	05-17-00	05-17-00
Lab Code	LF-3435	LF-3436,7	LF-3438	LF-3439
Type	Smallmouth Bass	Channel Catfish	Carp	Freshwater Drum
Mn-54	0.1 ± 0.5; 0.5	0.1 ± 0.4; 0.4	0.4 ± 0.5; 0.6	0.3 ± 0.5; 0.5
Fe-59	-1.7 ± 1.2; 1.3	-0.8 ± 0.9; 0.9	-0.7 ± 1.5; 1.5	-0.6 ± 1.3; 1.3
Co-58	0.2 ± 0.5; 0.5	-0.2 ± 0.4; 0.4	0.3 ± 0.8; 0.8	0.6 ± 0.4; 0.4
Co-60	0.5 ± 0.6; 0.6	0.6 ± 0.5; 0.5	0.2 ± 0.8; 0.8	0.4 ± 0.6; 0.6
Zn-65	0.3 ± 1.0; 1.0	0.6 ± 1.1; 1.1	-2.1 ± 2.1; 2.1	-0.5 ± 1.3; 1.3
Zr/Nb-95	-1.2 ± 0.4; 0.5	-0.0 ± 0.4; 0.4	0.3 ± 0.6; 0.6	-0.7 ± 0.8; 0.8
Cs-134	0.2 ± 0.5; 0.5	-0.4 ± 0.5; 0.5	-0.2 ± 0.8; 0.8	-0.0 ± 0.5; 0.5
Cs-137	0.1 ± 0.4; 0.4	-0.1 ± 0.3; 0.3	0.1 ± 0.6; 0.6	-0.1 ± 0.5; 0.5
Ba/La-140	-0.8 ± 0.4; 0.4	-2.0 ± 0.5; 0.6	-1.8 ± 1.0; 1.0	0.3 ± 0.5; 0.5
Date Collected	10-20-00	10-20-00	10-20-00	10-20-00
Lab Code	LF-8140	LF-8141	LF-8142	LF-8143
Type	Carp	Smallmouth Buffalo	Golden Redhorse	Freshwater Drum
Mn-54	-0.8 ± 0.7; 0.7	0.2 ± 0.4; 0.4	0.7 ± 0.5; 0.5	-0.4 ± 0.6; 0.6
Fe-59	0.6 ± 1.6; 1.6	-0.8 ± 1.0; 1.0	3.0 ± 1.1; 1.2	-1.1 ± 1.3; 1.3
Co-58	0.0 ± 0.8; 0.8	0.0 ± 0.5; 0.5	-0.1 ± 0.4; 0.4	-0.2 ± 0.5; 0.5
Co-60	0.6 ± 1.0; 1.0	-0.0 ± 0.5; 0.5	-0.3 ± 0.6; 0.6	0.1 ± 0.7; 0.7
Zn-65	0.2 ± 1.6; 1.6	1.3 ± 1.4; 1.4	-1.7 ± 1.3; 1.3	-0.4 ± 1.6; 1.6
Zr/Nb-95	-0.3 ± 0.8; 0.8	-0.5 ± 0.5; 0.5	-0.0 ± 0.5; 0.5	-0.1 ± 0.6; 0.6
Cs-134	-0.8 ± 0.9; 0.9	0.3 ± 0.6; 0.6	-0.5 ± 0.6; 0.6	0.4 ± 0.6; 0.6
Cs-137	0.1 ± 0.7; 0.7	0.4 ± 0.5; 0.5	0.3 ± 0.5; 0.5	0.2 ± 0.6; 0.6
Ba/La-140	-1.1 ± 0.7; 0.7	0.4 ± 0.5; 0.5	1.2 ± 0.5; 0.5	-0.2 ± 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	10-20-00
Lab Code	LF-8144
Type	Channel Catfish
Mn-54	-0.3 ± 0.8; 0.8
Fe-59	-1.6 ± 1.4; 1.4
Co-58	0.3 ± 0.7; 0.7
Co-60	-0.1 ± 0.9; 0.9
Zn-65	-0.7 ± 1.4; 1.4
Zr/Nb-95	0.0 ± 0.7; 0.7
Cs-134	-0.2 ± 0.8; 0.8
Cs-137	0.1 ± 0.7; 0.7
Ba/La-140	-0.7 ± 0.8; 0.8

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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 = 0.10; Fe-59 = 0.60; Co-58, Co-60 = 0.10; Zn-65 = 0.60; Zr/Nb-95 = .020;
Ba/La-140 = 0.60 pCi/g dry weight

Units: 10^{-2} pCi/g dry weight

Sample Description and Concentration

L-40 Illinios River Downstream

Date Collected	05-18-00	10-05-00
Lab Code	LBS-3462	LBS-7368
Mn-54	0.7 ± 0.9; 0.9	-0.2 ± 1.5; 1.5
Fe-59	-1.4 ± 2.4; 2.4	-0.3 ± 3.2; 3.2
Co-58	-0.8 ± 0.9; 0.9	2.1 ± 1.4; 1.4
Co-60	0.5 ± 1.3; 1.3	0.2 ± 1.9; 1.9
Zn-65	-2.0 ± 2.1; 2.1	-2.8 ± 3.7; 3.7
Zr/Nb-95	-0.8 ± 0.9; 0.9	-2.5 ± 1.7; 1.8
Cs-134	-0.1 ± 0.7; 0.7	0.6 ± 1.9; 1.9
Cs-137	7.1 ± 1.6; 1.9	3.4 ± 1.8; 1.9
Ba/La-140	-0.4 ± 0.8; 0.8	-0.3 ± 1.4; 1.4

L-41 Illinios River Downstream

Date Collected	05-18-00	10-05-00
Lab Code	LBS-3463	LBS-7369,70
Mn-54	1.0 ± 2.4; 2.4	-0.3 ± 3.0; 3.0
Fe-59	1.3 ± 5.1; 5.1	-0.1 ± 6.2; 6.2
Co-58	-2.1 ± 2.5; 2.5	1.2 ± 3.0; 3.0
Co-60	5.0 ± 3.8; 3.9	6.1 ± 4.5; 4.6
Zn-65	-1.7 ± 5.9; 5.9	7.2 ± 8.6; 8.6
Zr/Nb-95	-4.2 ± 2.8; 2.8	-6.9 ± 3.3; 3.4
Cs-134	3.4 ± 3.3; 3.3	1.8 ± 3.7; 3.7
Cs-137	21.4 ± 5.7; 6.4	15.4 ± 5.3; 5.7
Ba/La-140	10.1 ± 3.0; 3.3	-4.4 ± 4.3; 4.4

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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

<u>L-Control (C) Eugene Clements</u>		
Date Collected	08-24-00	08-24-00
Lab Code	LVE-6200 ^a	LVE-6201 ^a
Type	Beets	Beet greens
I-131		-1.28 ± 0.99; 1.01
Mn-54	-0.1 ± 0.7; 0.7	0.9 ± 1.0; 1.0
Fe-59	-1.4 ± 1.3; 1.3	-0.3 ± 2.3; 2.3
Co-58	-0.5 ± 0.7; 0.7	-0.3 ± 1.0; 1.0
Co-60	0.3 ± 0.9; 0.9	-0.6 ± 1.3; 1.3
Zn-65	-0.1 ± 1.4; 1.4	-1.8 ± 2.8; 2.8
Zr/Nb-95	0.0 ± 0.6; 0.6	0.2 ± 1.1; 1.1
Cs-134	-0.7 ± 0.7; 0.7	1.7 ± 1.2; 1.2
Cs-137	0.1 ± 0.7; 0.7	1.0 ± 1.4; 1.4
Ba/La-140	0.6 ± 0.6; 0.6	-1.1 ± 1.1; 1.1
<u>L-Quad 1 Diane Partridge</u>		
Date Collected	08-24-00	08-24-00
Lab Code	LVE-6192 ^a	LVE-6193 ^a
Type	Beets	Beet greens
I-131		-0.37 ± 0.44; 0.44
Mn-54	-0.2 ± 0.7; 0.7	0.2 ± 0.4; 0.4
Fe-59	0.5 ± 1.6; 1.6	-0.2 ± 1.2; 1.2
Co-58	-0.1 ± 0.6; 0.6	0.3 ± 0.4; 0.4
Co-60	-0.2 ± 0.8; 0.8	-0.3 ± 0.6; 0.6
Zn-65	-0.5 ± 1.9; 1.9	-0.6 ± 1.5; 1.5
Zr/Nb-95	-1.3 ± 1.4; 1.4	-0.0 ± 0.5; 0.5
Cs-134	-0.6 ± 0.7; 0.7	0.2 ± 0.6; 0.6
Cs-137	0.1 ± 0.7; 0.7	-0.1 ± 0.5; 0.5
Ba/La-140	-0.2 ± 1.0; 1.0	-0.6 ± 0.4; 0.4

^a ODCM-required. Beets = root vegetation; beet greens = broad leaf.

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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	08-24-00	08-24-00
Lab Code	LVE-6194 ^a	LVE-6195 ^a
Type	Beets	Cabbage
I-131		0.17 ± 0.62; 0.62
Mn-54	0.3 ± 0.5; 0.5	0.2 ± 0.7; 0.7
Fe-59	-0.0 ± 1.0; 1.0	-0.9 ± 1.5; 1.5
Co-58	0.2 ± 0.5; 0.5	-0.0 ± 0.8; 0.8
Co-60	-0.1 ± 0.7; 0.7	0.2 ± 0.8; 0.8
Zn-65	-0.7 ± 1.3; 1.3	0.6 ± 1.9; 1.9
Zr/Nb-95	0.1 ± 0.5; 0.5	-0.7 ± 0.7; 0.7
Cs-134	0.9 ± 0.6; 0.6	0.1 ± 0.6; 0.6
Cs-137	-0.1 ± 0.5; 0.5	-0.2 ± 0.7; 0.7
Ba/La-140	0.2 ± 0.3; 0.3	-0.3 ± 0.5; 0.5

L-Quad 3 Michael Olson

Date Collected	08-24-00	08-24-00
Lab Code	LVE-6196 ^a	LVE-6197 ^a
Type	Beets	Lettuce
I-131		0.09 ± 0.79; 0.79
Mn-54	-0.2 ± 0.7; 0.7	0.6 ± 1.0; 1.0
Fe-59	0.5 ± 1.6; 1.6	0.7 ± 2.2; 2.2
Co-58	-0.1 ± 0.6; 0.6	0.1 ± 0.9; 0.9
Co-60	-0.2 ± 0.8; 0.8	-0.3 ± 1.0; 1.0
Zn-65	-0.5 ± 1.9; 1.9	1.3 ± 2.7; 2.7
Zr/Nb-95	-1.3 ± 1.5; 1.5	-0.5 ± 0.9; 0.9
Cs-134	-0.6 ± 0.7; 0.7	-0.6 ± 1.3; 1.3
Cs-137	0.1 ± 0.7; 0.7	0.1 ± 0.9; 0.9
Ba/La-140	-0.3 ± 1.0; 1.0	0.6 ± 0.7; 0.7

^a ODCM-required. Beets = root vegetation; cabbage, lettuce = broad leaf.

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	08-24-00	08-24-00
Lab Code	LVE-6198 ^a	LVE-6199 ^a
Type	Beets	Beet greens
I-131		-0.15 ± 0.39; 0.39
Mn-54	-0.9 ± 0.5; 0.5	-0.1 ± 0.5; 0.5
Fe-59	1.0 ± 1.1; 1.1	-0.9 ± 1.1; 1.1
Co-58	0.0 ± 0.5; 0.5	0.1 ± 0.4; 0.4
Co-60	0.2 ± 0.6; 0.6	0.1 ± 0.5; 0.5
Zn-65	-0.3 ± 1.2; 1.2	-0.3 ± 1.3; 1.3
Zr/Nb-95	0.1 ± 0.5; 0.5	-0.6 ± 0.5; 0.5
Cs-134	0.1 ± 0.6; 0.6	-0.1 ± 0.6; 0.6
Cs-137	0.3 ± 0.4; 0.4	0.3 ± 0.5; 0.5
Ba/La-140	0.2 ± 0.5; 0.5	-0.4 ± 0.4; 0.4

^a ODCM-required. Beets = root vegetation; beet greens = broad leaf.

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Table 7.	Surface Water
Collection:	Monthly composites of weekly collections
ODCM-Required LLDs:	Gross Beta = 4, Mn-54 = 15, Fe-59 = 30, Co-58 = 15, Co-60 = 15, Zn-65 = 30, 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

2000 Collection Period	January	February	March
Lab Code	LSW-587,8	LSW-1052	LSW-2078
Gross Beta	5.3 ± 1.2; 1.3	7.1 ± 2.0; 2.2	5.5 ± 1.8; 2.0
Mn-54	0.6 ± 1.2; 1.2	1.3 ± 2.5; 2.5	2.9 ± 3.8; 3.8
Fe-59	1.4 ± 2.2; 2.2	3.8 ± 3.6; 3.7	1.1 ± 6.3; 6.3
Co-58	-0.1 ± 1.3; 1.3	0.2 ± 2.2; 2.2	-2.7 ± 3.2; 3.2
Co-60	-0.8 ± 1.3; 1.3	0.0 ± 2.2; 2.2	3.6 ± 4.4; 4.4
Zn-65	-1.1 ± 2.4; 2.4	1.2 ± 4.6; 4.6	-4.8 ± 6.3; 6.4
Zr/Nb-95	0.8 ± 1.2; 1.2	2.4 ± 1.8; 1.8	-6.5 ± 7.7; 7.7
Cs-134	-0.0 ± 1.3; 1.3	0.8 ± 3.0; 3.0	-2.2 ± 3.8; 3.8
Cs-137	0.8 ± 1.3; 1.3	-0.1 ± 2.2; 2.2	1.4 ± 2.7; 2.7
Ba/La-140	-5.1 ± 1.5; 1.7	-0.1 ± 2.3; 2.3	1.9 ± 4.8; 4.8
2000 Collection Period	April	May	June
Lab Code	LSW-3019	LSW-3900	LSW-4622
Gross Beta	6.8 ± 1.9; 2.2	5.7 ± 1.7; 1.9	4.0 ± 1.5; 1.6
Mn-54	-0.2 ± 0.6; 0.6	-0.8 ± 1.5; 1.5	1.7 ± 1.4; 1.5
Fe-59	-0.5 ± 1.4; 1.4	0.6 ± 2.3; 2.3	1.5 ± 3.0; 3.0
Co-58	-1.0 ± 0.6; 0.7	-1.0 ± 1.4; 1.4	1.2 ± 1.5; 1.5
Co-60	0.5 ± 0.7; 0.7	1.8 ± 1.5; 1.5	0.7 ± 1.5; 1.5
Zn-65	-2.5 ± 1.4; 1.5	1.6 ± 2.9; 2.9	-2.4 ± 4.1; 4.1
Zr/Nb-95	0.8 ± 0.7; 0.7	2.0 ± 1.2; 1.3	-2.4 ± 3.9; 3.9
Cs-134	0.6 ± 0.7; 0.7	-0.5 ± 1.3; 1.3	-0.2 ± 2.0; 2.0
Cs-137	0.3 ± 0.7; 0.7	0.0 ± 1.3; 1.3	-0.4 ± 1.8; 1.8
Ba/La-140	-2.8 ± 0.7; 0.8	-9.1 ± 1.8; 2.2	0.3 ± 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-21 (C) Illinois River at Seneca</u>				
2000 Collection Period	July	August	September	
Lab Code	LSW-5558	LSW-6599	LSW-7498	
Gross Beta	5.5 ± 1.2 ; 1.5	6.1 ± 1.9 ; 2.1	5.4 ± 1.6 ; 1.8	
Mn-54	-0.7 ± 3.1 ; 3.1	-0.3 ± 1.2 ; 1.2	-0.3 ± 1.6 ; 1.6	
Fe-59	5.2 ± 5.3 ; 5.4	0.6 ± 2.3 ; 2.3	-3.7 ± 2.9 ; 3.0	
Co-58	-0.1 ± 2.9 ; 2.9	-0.4 ± 1.3 ; 1.3	-0.6 ± 1.6 ; 1.7	
Co-60	3.3 ± 3.2 ; 3.3	1.0 ± 1.2 ; 1.2	0.1 ± 1.2 ; 1.2	
Zn-65	-1.0 ± 5.8 ; 5.8	-0.5 ± 2.4 ; 2.4	-1.3 ± 2.8 ; 2.8	
Zr/Nb-95	0.7 ± 2.7 ; 2.7	-0.4 ± 1.3 ; 1.3	-0.8 ± 1.8 ; 1.8	
Cs-134	0.1 ± 2.9 ; 2.9	-0.2 ± 1.4 ; 1.4	1.3 ± 2.3 ; 2.3	
Cs-137	2.8 ± 3.2 ; 3.2	0.9 ± 0.9 ; 0.9	0.6 ± 1.7 ; 1.7	
Ba/La-140	3.7 ± 3.3 ; 3.4	1.8 ± 1.6 ; 1.6	-1.6 ± 1.6 ; 1.6	
2000 Collection Period	October	November	December	
Lab Code	LSW-8679	LSW-9993	LSW-10588	
Gross Beta	6.6 ± 1.2 ; 1.6	3.8 ± 1.3 ; 1.4	7.2 ± 1.9 ; 2.2	
Mn-54	-0.4 ± 1.0 ; 1.0	-1.2 ± 1.2 ; 1.2	0.6 ± 2.0 ; 2.0	
Fe-59	-0.3 ± 1.8 ; 1.8	2.0 ± 2.5 ; 2.5	0.8 ± 4.5 ; 4.5	
Co-58	0.4 ± 1.1 ; 1.1	-0.5 ± 1.3 ; 1.3	-1.3 ± 2.7 ; 2.7	
Co-60	-0.2 ± 1.0 ; 1.0	0.4 ± 1.4 ; 1.4	-1.4 ± 2.7 ; 2.7	
Zn-65	-1.1 ± 1.9 ; 1.9	-1.7 ± 2.7 ; 2.7	1.0 ± 4.4 ; 4.4	
Zr/Nb-95	-1.4 ± 1.1 ; 1.1	-0.7 ± 1.3 ; 1.3	-3.9 ± 2.9 ; 3.0	
Cs-134	0.4 ± 1.2 ; 1.2	0.7 ± 1.4 ; 1.4	1.4 ± 2.9 ; 2.9	
Cs-137	-0.2 ± 0.9 ; 0.9	0.3 ± 1.3 ; 1.3	0.2 ± 2.0 ; 2.0	
Ba/La-140	0.6 ± 1.0 ; 1.0	1.8 ± 1.5 ; 1.6	4.6 ± 1.7 ; 1.8	

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Table 7.	Surface Water
Collection:	Monthly composites of weekly collections
ODCM-Required LLDs:	Gross Beta = 4, Mn-54 = 15, Fe-59 = 30, Co-58 = 15, Co-60 = 15, Zn-65 = 30, 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

2000 Collection Period	January	February	March
Lab Code	LSW-589	LSW-1053	LSW-2079
Gross Beta	4.8 ± 1.7; 1.9	6.3 ± 1.8; 2.1	3.9 ± 1.7; 1.8
Mn-54	-0.2 ± 1.6; 1.6	0.2 ± 2.2; 2.2	-0.7 ± 3.0; 3.0
Fe-59	1.3 ± 2.4; 2.4	3.6 ± 4.4; 4.4	-4.9 ± 5.3; 5.4
Co-58	0.4 ± 1.3; 1.4	-1.5 ± 1.9; 1.9	1.8 ± 2.9; 2.9
Co-60	0.8 ± 1.2; 1.2	-1.1 ± 1.9; 1.9	-0.8 ± 3.1; 3.1
Zn-65	-2.6 ± 2.5; 2.5	-5.7 ± 5.3; 5.3	0.6 ± 5.4; 5.4
Zr/Nb-95	0.3 ± 1.6; 1.6	0.6 ± 2.4; 2.4	-0.3 ± 3.1; 3.1
Cs-134	-0.2 ± 1.6; 1.6	0.6 ± 2.4; 2.4	1.8 ± 3.3; 3.3
Cs-137	0.3 ± 1.4; 1.4	1.6 ± 2.3; 2.4	-0.2 ± 3.0; 3.0
Ba/La-140	-4.0 ± 2.0; 2.0	-1.6 ± 2.6; 2.6	1.8 ± 2.7; 2.7
2000 Collection Period	April	May	June
Lab Code	LSW-3020	LSW-3901	LSW-4623
Gross Beta	6.1 ± 1.8; 2.0	6.6 ± 1.7; 2.0	4.4 ± 1.7; 1.8
Mn-54	0.2 ± 0.6; 0.6	1.3 ± 2.0; 2.0	1.2 ± 1.5; 1.5
Fe-59	-1.8 ± 1.0; 1.0	1.0 ± 5.4; 5.4	1.8 ± 3.2; 3.3
Co-58	-0.6 ± 0.5; 0.5	-0.1 ± 2.3; 2.3	1.7 ± 1.6; 1.6
Co-60	0.4 ± 0.6; 0.6	0.3 ± 3.3; 3.3	0.9 ± 1.9; 1.9
Zn-65	-0.1 ± 1.2; 1.2	-2.3 ± 5.4; 5.5	-6.7 ± 5.3; 5.4
Zr/Nb-95	-0.6 ± 0.6; 0.6	0.9 ± 2.9; 2.9	-3.3 ± 1.8; 1.9
Cs-134	0.1 ± 0.7; 0.7	-1.2 ± 2.9; 2.9	-0.2 ± 2.0; 2.0
Cs-137	0.6 ± 0.5; 0.5	-0.0 ± 2.8; 2.8	-1.3 ± 1.9; 1.9
Ba/La-140	0.6 ± 0.7; 0.7	-7.3 ± 3.6; 3.8	-5.5 ± 1.8; 2.0

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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-40 Illinois River Downstream</u>			
2000 Collection Period	July	August	September
Lab Code	LSW-5559	LSW-6600	LSW-7499
Gross Beta	5.2 ± 1.6 ; 1.8	6.8 ± 1.7 ; 2.0	6.2 ± 1.8 ; 2.1
Mn-54	1.2 ± 1.5 ; 1.5	-1.5 ± 2.2 ; 2.2	0.5 ± 1.8 ; 1.8
Fe-59	2.1 ± 3.5 ; 3.5	1.9 ± 3.8 ; 3.8	-2.2 ± 3.8 ; 3.8
Co-58	-1.3 ± 1.4 ; 1.4	-0.1 ± 1.9 ; 1.9	0.2 ± 2.0 ; 2.0
Co-60	1.9 ± 1.6 ; 1.6	0.2 ± 1.6 ; 1.6	3.5 ± 2.1 ; 2.2
Zn-65	1.2 ± 3.7 ; 3.7	-5.2 ± 4.9 ; 4.9	-5.6 ± 4.4 ; 4.4
Zr/Nb-95	-1.7 ± 1.5 ; 1.5	2.3 ± 1.9 ; 1.9	-3.2 ± 2.3 ; 2.3
Cs-134	0.5 ± 1.4 ; 1.4	-0.6 ± 1.9 ; 1.9	0.9 ± 2.4 ; 2.4
Cs-137	-1.2 ± 1.8 ; 1.8	-2.6 ± 2.1 ; 2.1	0.4 ± 2.2 ; 2.2
Ba/La-140	-1.3 ± 1.6 ; 1.6	-0.8 ± 2.4 ; 2.4	-3.4 ± 2.4 ; 2.5
2000 Collection Period	October	November	December
Lab Code	LSW-8680	LSW-9994	LSW-10589
Gross Beta	5.8 ± 1.1 ; 1.5	3.5 ± 1.3 ; 1.4	5.8 ± 1.7 ; 1.9
Mn-54	0.5 ± 1.9 ; 1.9	1.7 ± 3.2 ; 3.2	-0.5 ± 1.9 ; 1.9
Fe-59	-0.4 ± 3.3 ; 3.3	2.8 ± 5.7 ; 5.7	-0.2 ± 3.5 ; 3.5
Co-58	-2.2 ± 2.1 ; 2.2	0.3 ± 3.7 ; 3.7	-2.0 ± 1.6 ; 1.7
Co-60	0.8 ± 2.2 ; 2.2	4.2 ± 3.9 ; 4.0	-1.6 ± 1.8 ; 1.8
Zn-65	-0.7 ± 4.6 ; 4.6	-0.3 ± 7.4 ; 7.4	-1.2 ± 4.0 ; 4.0
Zr/Nb-95	-0.6 ± 2.3 ; 2.3	-0.2 ± 3.7 ; 3.7	-5.7 ± 2.1 ; 2.3
Cs-134	0.9 ± 2.1 ; 2.1	-0.7 ± 4.2 ; 4.2	0.9 ± 2.0 ; 2.0
Cs-137	1.4 ± 2.6 ; 2.6	0.2 ± 3.5 ; 3.5	-0.1 ± 1.7 ; 1.7
Ba/La-140	4.5 ± 2.3 ; 2.4	10.2 ± 4.5 ; 4.7	-3.8 ± 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

2000 Collection Period	<u>Sample Description and Concentration</u>	
	Lab Code	Tritium
<u>L-21 (C) Illinois River at Seneca</u>		
1st Quarter	LSW- 1930	550 ± 110; 133
2nd Quarter	LSW- 4541	410 ± 103; 117
3rd Quarter	LSW- 7170	421 ± 106; 120
4th Quarter	LSW- 10594	381 ± 104; 116
<u>L-40 Illinois River Downstream</u>		
1st Quarter	LSW- 1931 ^a	796 ± 119; 161
2nd Quarter	LSW- 4542	401 ± 102; 116
3rd Quarter	LSW- 7171	383 ± 104; 117
4th Quarter	LSW- 10595	493 ± 108; 128

^a Sample repeated with a result of 834±108 pCi/L.

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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				
<u>L-27 LSCS Onsite Well at Station</u>				
Date Collected	01-06-00	04-06-00	07-13-00	10-12-00
Lab Code	LWW-138 ^a	LWW-2043	LWW-5090	LWW-7851
H-3	69 ± 81; 82	100 ± 93; 94	126 ± 93; 94	113 ± 94; 95
Mn-54	0.7 ± 2.1; 2.1	0.3 ± 1.9; 1.9	0.9 ± 1.7; 1.7	0.9 ± 3.8; 3.8
Fe-59	-4.2 ± 4.3; 4.3	5.1 ± 3.2; 3.3	1.3 ± 3.3; 3.3	8.2 ± 7.6; 7.7
Co-58	0.7 ± 2.2; 2.2	2.2 ± 1.8; 1.8	-0.2 ± 1.6; 1.6	-2.0 ± 3.7; 3.7
Co-60	0.9 ± 1.9; 1.9	-0.1 ± 1.8; 1.8	2.2 ± 2.0; 2.0	4.5 ± 3.2; 3.3
Zn-65	2.1 ± 4.9; 4.9	7.6 ± 4.4; 4.5	0.5 ± 3.7; 3.7	3.8 ± 7.0; 7.0
Zr/Nb-95	1.8 ± 2.1; 2.1	-0.9 ± 2.0; 2.0	1.8 ± 1.7; 1.7	-0.8 ± 4.1; 4.1
Cs-134	1.3 ± 2.4; 2.4	0.1 ± 2.1; 2.1	0.9 ± 1.9; 1.9	-3.1 ± 4.4; 4.4
Cs-137	1.9 ± 2.2; 2.2	0.3 ± 2.1; 2.1	-1.4 ± 1.8; 1.8	3.4 ± 3.3; 3.3
Ba/La-140	2.3 ± 2.8; 2.8	-3.1 ± 2.1; 2.1	-7.6 ± 2.2; 2.5	7.3 ± 4.3; 4.4
<u>L-28 Marseilles Well</u>				
Date Collected	01-06-00	04-06-00	07-13-00	10-12-00
Lab Code	LWW-139	LWW-2044	LWW-5091	LWW-7852
H-3	26 ± 79; 79	15 ± 89; 89	40 ± 89; 89	-20 ± 88; 88
Mn-54	0.1 ± 1.7; 1.7	0.4 ± 1.6; 1.6	-0.4 ± 1.5; 1.5	0.2 ± 1.7; 1.7
Fe-59	2.9 ± 3.6; 3.7	0.7 ± 2.4; 2.4	1.1 ± 2.6; 2.6	1.0 ± 3.0; 3.0
Co-58	1.3 ± 1.7; 1.7	-1.2 ± 1.5; 1.5	-0.8 ± 1.5; 1.5	-0.2 ± 1.3; 1.3
Co-60	-0.2 ± 2.1; 2.1	1.7 ± 1.3; 1.3	1.5 ± 1.9; 1.9	-0.4 ± 1.7; 1.7
Zn-65	-3.6 ± 4.5; 4.5	-2.8 ± 3.1; 3.1	-1.0 ± 3.2; 3.2	-3.5 ± 4.8; 4.9
Zr/Nb-95	-3.5 ± 1.9; 2.0	-0.8 ± 1.6; 1.6	0.1 ± 1.5; 1.5	-1.6 ± 2.2; 2.2
Cs-134	-0.3 ± 2.2; 2.2	0.2 ± 2.0; 2.0	-0.0 ± 1.7; 1.7	0.2 ± 2.4; 2.4
Cs-137	-0.3 ± 2.2; 2.2	-0.3 ± 1.5; 1.5	0.5 ± 1.4; 1.4	0.5 ± 1.9; 1.9
Ba/La-140	-6.7 ± 2.8; 3.0	-1.8 ± 1.6; 1.6	-4.7 ± 1.8; 1.9	-2.1 ± 2.3; 2.3

^a Piping missing from location; sample collected from alternate location inside building. Station Point of Contact notified of change.

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MILCH ANIMALS, NEAREST LIVESTOCK, AND
NEAREST RESIDENCES CENSUS

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MILCH ANIMALS CENSUS, 2000

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 2, 2000

LASALLE

NEAREST LIVESTOCK CENSUS, 2000

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 2, 2000

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NEAREST RESIDENCE CENSUS, 2000

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 2, 2000

LASALLE

4.0 TLD DATA*

*TLD Data provided by Commonwealth Edison Company.

Commonwealth Edison Company

Date: 25-JAN-01

Environmental Site Report V4 for LaSalle

Page: 1

Gamma Radiation Measured in mR by TLDs

Site	Description	Quarter 1 2000	Quarter 2 2000	Quarter 3 2000	Quarter 4 2000
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I. INDICATOR LOCATIONS

a. Air Samplers

L-01-1	NEARSITE NO.1	19.2	19.2	18.4	18.9
L-01-2	NEARSITE NO.1	18.8	19.3	19.4	19.1
L-03-1	ONSITE NO.3	16.2	17.0	15.7	17.3
L-03-2	ONSITE NO.3	17.0	17.0	16.3	17.7
L-04-1	ONSITE NO.4	18.1	17.6	16.7	18.0
L-04-2	ONSITE NO.4	16.6	18.0	17.8	17.9
L-05-1	ONSITE NO.5	18.4	18.3	18.1	18.9
L-05-2	ONSITE NO.5	18.5	17.6	17.6	18.0
L-06-1	NEARSITE NO.6	18.9	20.7	18.0	18.7
L-06-2	NEARSITE NO.6	18.2	18.7	17.7	18.7
L-07-1	SENECA	18.5	19.2	18.9	18.1
L-07-2	SENECA	18.1	18.9	17.8	18.6
L-08-1	MARSEILLES	18.3	18.9	17.9	18.8
L-08-2	MARSEILLES	18.2	18.9	18.2	18.9
L-11-1	RANSOM	15.2	16.0	15.3	16.2
L-11-2	RANSOM	16.0	16.5	14.7	16.3

Air Sampler Mean \pm S.D.	17.8 \pm 1.2	18.2 \pm 1.2	17.4 \pm 1.3	18.1 \pm 0.9
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Annual Air Sampler Mean \pm S.D.	17.9 \pm 1.2
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b. Inner Ring (100 Series)

L-101-1	18.9	19.6	19.5	19.4
L-101-2	18.4	19.4	19.1	19.0
L-102-1	20.5	19.9	20.7	20.7
L-102-2	20.1	20.5	20.4	20.3
L-103-1	18.9	18.3	17.9	18.3
L-103-2	18.8	18.5	18.2	18.9
L-104-1	18.7	18.5	18.3	18.4
L-104-2	17.7	18.8	17.3	18.5
L-105-1	19.6	20.3	19.3	20.6
L-105-2	20.8	20.4	18.9	20.8
L-106-1	18.7	18.9	17.8	17.8
L-106-2	17.6	18.9	18.4	18.3
L-107-1	19.4	19.5	18.8	20.0
L-107-2	18.5	18.9	19.4	19.4
L-108-1	18.7	19.7	19.0	18.9
L-108-2	15.5	16.1	15.4	16.0
L-109-1	19.2	20.0	19.1	19.1

Site	Description	Quarter 1 2000	Quarter 2 2000	Quarter 3 2000	Quarter 4 2000
b. Inner Ring (100 Series)					
L-109-2		19.8	20.0	19.3	19.4
L-110-1		19.1	18.9	17.9	18.5
L-110-2		19.3	18.8	18.3	19.3
L-111B-1		19.3	19.3	18.3	19.2
L-111B-2		19.0	18.9	18.6	19.6
L-112-1		18.2	18.3	17.5	18.1
L-112-2		18.8	20.0	18.4	18.7
L-113A-1		20.0	19.9	19.0	20.0
L-113A-2		19.9	19.6	19.1	20.2
L-114-1		19.6	19.7	19.7	19.7
L-114-2		18.5	19.7	19.0	19.4
L-115-1		17.4	17.3	17.0	17.5
L-115-2		16.7	16.5	16.2	16.9
L-116-1		16.6	16.7	16.1	17.3
L-116-2		16.9	16.9	16.4	17.2
Inner Ring Mean \pm S.D.		18.7 \pm 1.2	19.0 \pm 1.2	18.4 \pm 1.2	18.9 \pm 1.2
Annual Inner Ring Mean \pm S.D.					18.7 \pm 1.2

c. Outer Ring (200 Series)

L-201-3	15.3	18.9	15.0	15.7
L-201-4	18.7	15.4	18.8	19.5
L-202-3	17.6	17.3	17.2	17.4
L-202-4	16.6	16.6	16.0	16.6
L-203-1	18.6	18.4	18.3	20.1
L-203-2	18.3	18.3	17.9	18.7
L-204-1	18.4	20.0	18.7	19.3
L-204-2	18.6	18.7	18.9	19.0
L-205-1	19.1	19.2	18.9	19.1
L-205-2	19.0	19.4	18.8	19.9
L-205-3	19.7	18.9	18.2	19.6
L-205-4	17.9	18.1	17.7	18.7
L-206-1	19.5	19.4	18.7	19.2
L-206-2	18.9	18.3	18.2	20.3
L-207-1	19.3	19.9	19.1	19.2
L-207-2	18.7	18.4	17.8	18.2
L-208-1	18.9	19.8	17.8	20.4
L-208-2	19.5	19.5	18.7	19.6
L-209-1	19.7	20.2	18.6	19.0
L-209-2	19.3	18.8	18.0	18.6
L-210-1	21.3	21.9	20.5	20.5
L-210-2	20.4	20.5	19.9	20.2
L-211-1	20.8	20.4	18.4	20.1
L-211-2	19.6	20.2	19.4	19.5
L-212-1	19.0	19.1	18.5	20.4
L-212-2	19.4	19.5	18.8	20.3
L-213-3	18.4	18.4	17.4	18.1
L-213-4	17.7	17.9	17.4	18.1
L-214-3	18.3	18.5	17.6	19.0

Site	Description	Quarter 1 2000	Quarter 2 2000	Quarter 3 2000	Quarter 4 2000
c. Outer Ring (200 Series)					
L-214-4		17.7	18.4	18.0	18.1
L-215-3		19.0	19.9	18.9	19.5
L-215-4		20.4	19.7	19.1	20.0
L-216-3		19.7	19.8	19.1	19.8
L-216-4		18.7	18.5	18.8	20.4
Outer Ring Mean \pm S.D.		18.9 \pm 1.1	19.0 \pm 1.2	18.3 \pm 1.0	19.2 \pm 1.1
Annual Outer Ring Mean \pm S.D.					18.8 \pm 1.2
INDICATOR LOCATION MEAN \pm S.D.		18.6 \pm 1.2	18.8 \pm 1.2	18.2 \pm 1.2	18.9 \pm 1.1
Annual INDICATOR LOCATION MEAN \pm S.D.					18.6 \pm 1.2

II. CONTROL LOCATIONS

L-10-1	STREATOR	15.8	16.6	15.6	16.6
L-10-2	STREATOR	17.1	16.0	15.5	16.6
CONTROL LOCATION Mean \pm S.D.		16.5 \pm 0.9	16.3 \pm 0.4	15.6 \pm 0.1	16.6 \pm 0.0
Annual CONTROL LOCATION Mean \pm S.D.					16.2 \pm 0.6
INDICATOR LOCATION MEAN \pm S.D.		18.6 \pm 1.3	18.8 \pm 1.3	18.1 \pm 1.3	18.8 \pm 1.2
Annual INDICATOR LOCATION MEAN \pm S.D.					18.6 \pm 1.3

COMMENTS: "*" Indicates lost dosimeter. A portion of the Dose was estimated.

"#" Indicates edited dosimeter. The original Dose was replaced with an estimated value.

"n" (n=2..9) Indicates dose is average of n values. A "+" means more than 9 values.

5.0 GRAPHS OF DATA TRENDS

Air Particulates - Gross Beta

L-01 Nearsite No. 1

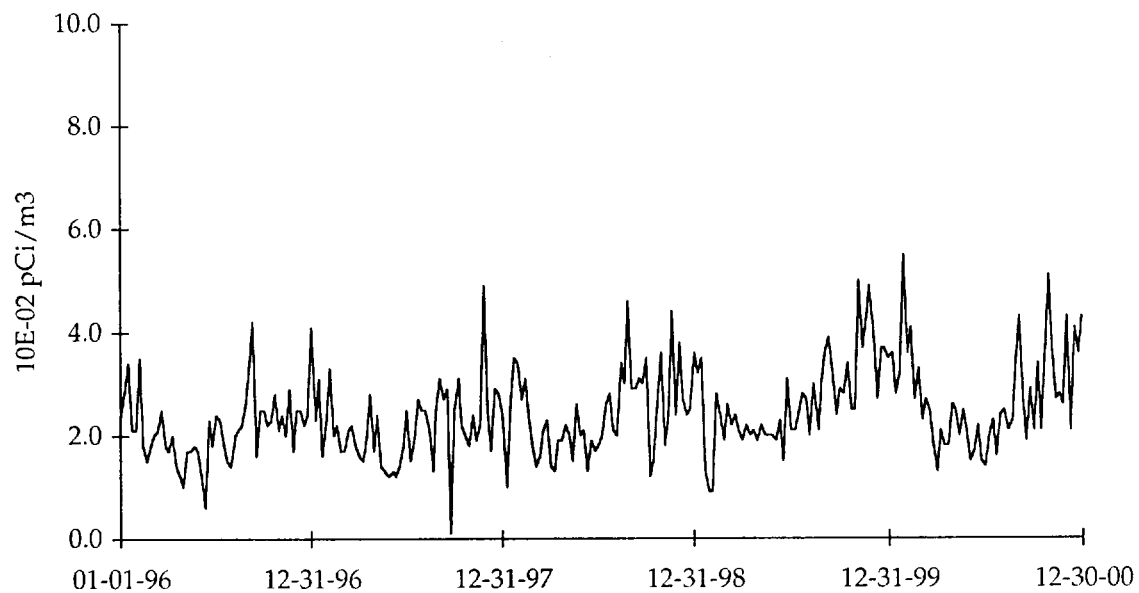


Figure 1. Continuous collection with weekly exchange of particulate filter.

L-03 Onsite No. 3

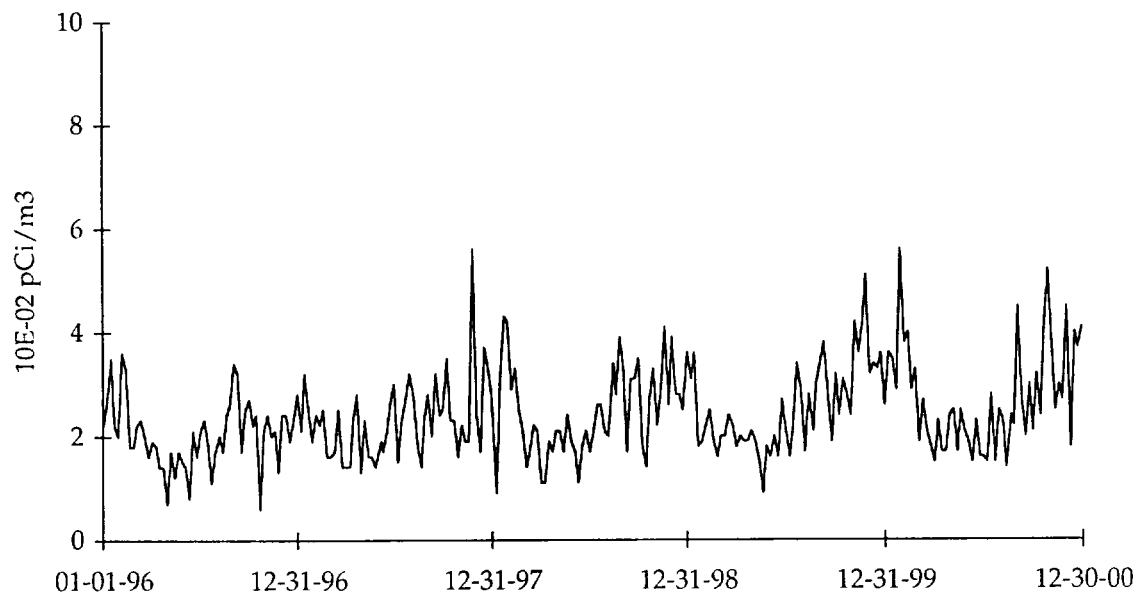


Figure 2. Continuous collection with weekly exchange of particulate filter.

Air Particulates - Gross Beta

L-05 Onsite No. 5

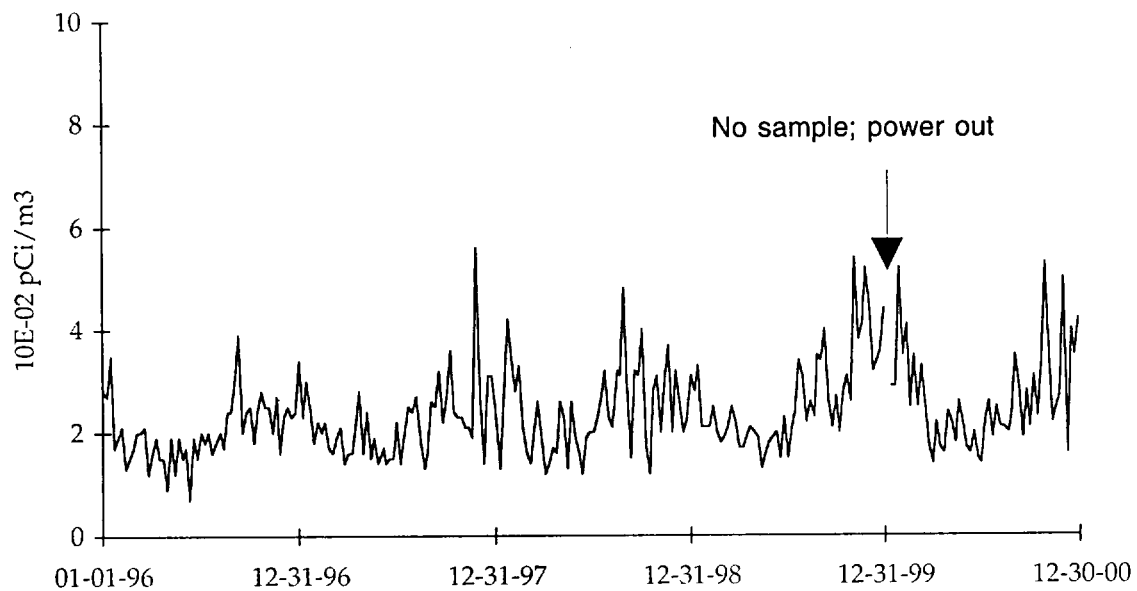


Figure 3. Continuous collection with weekly exchange of particulate filter.

L-06 Nearsite No. 6

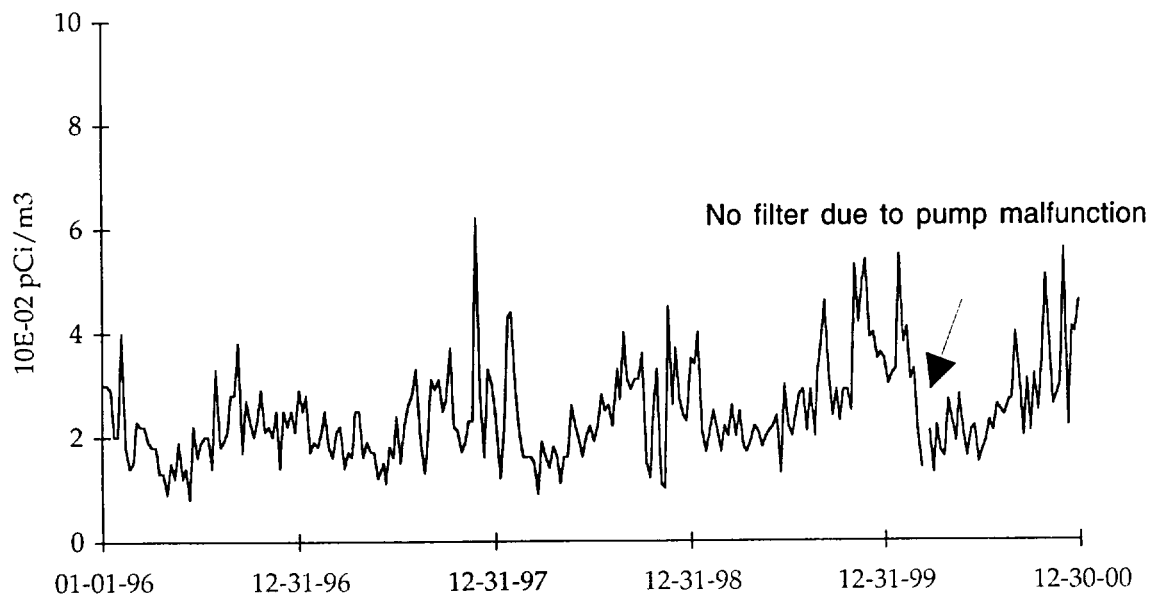
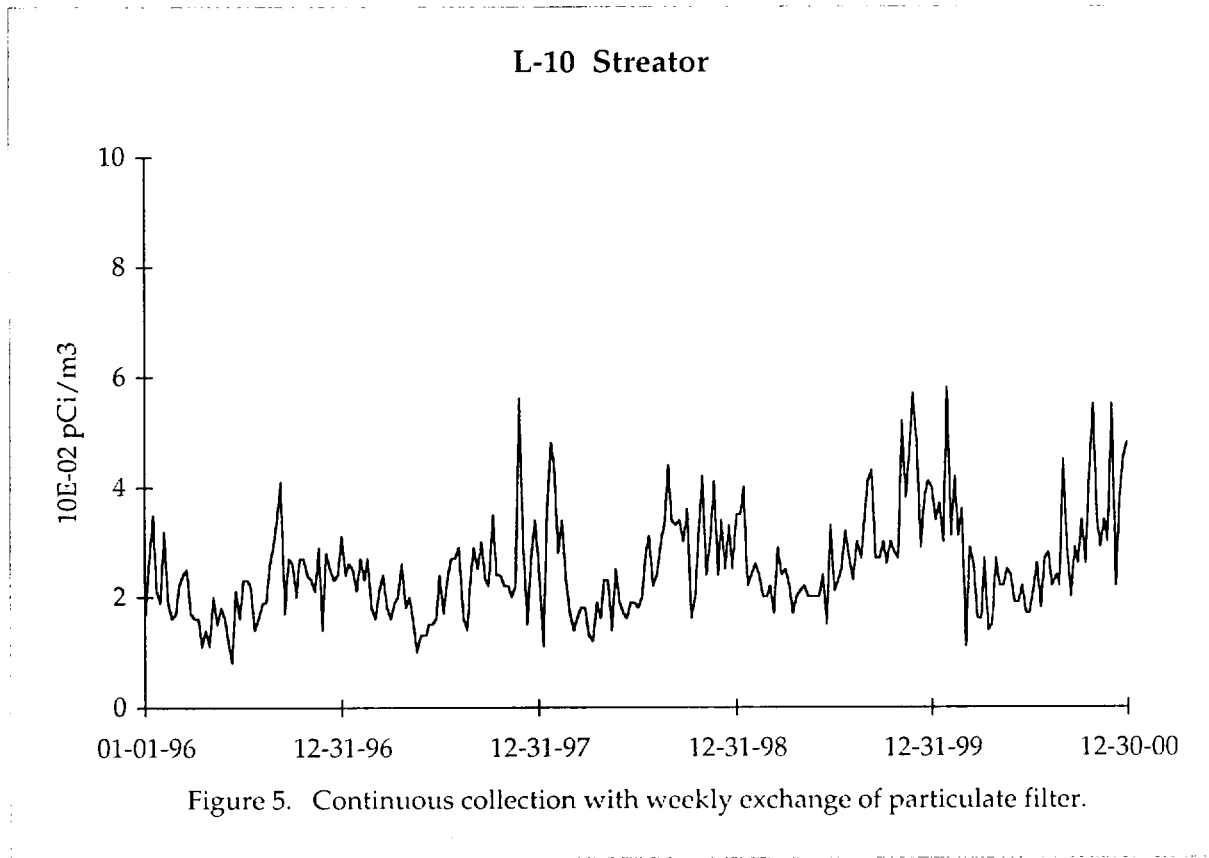


Figure 4. Continuous collection with weekly exchange of particulate filter.

Air Particulates - Gross Beta



Surface Water - Gross Beta

L-21 Illinois River at Seneca

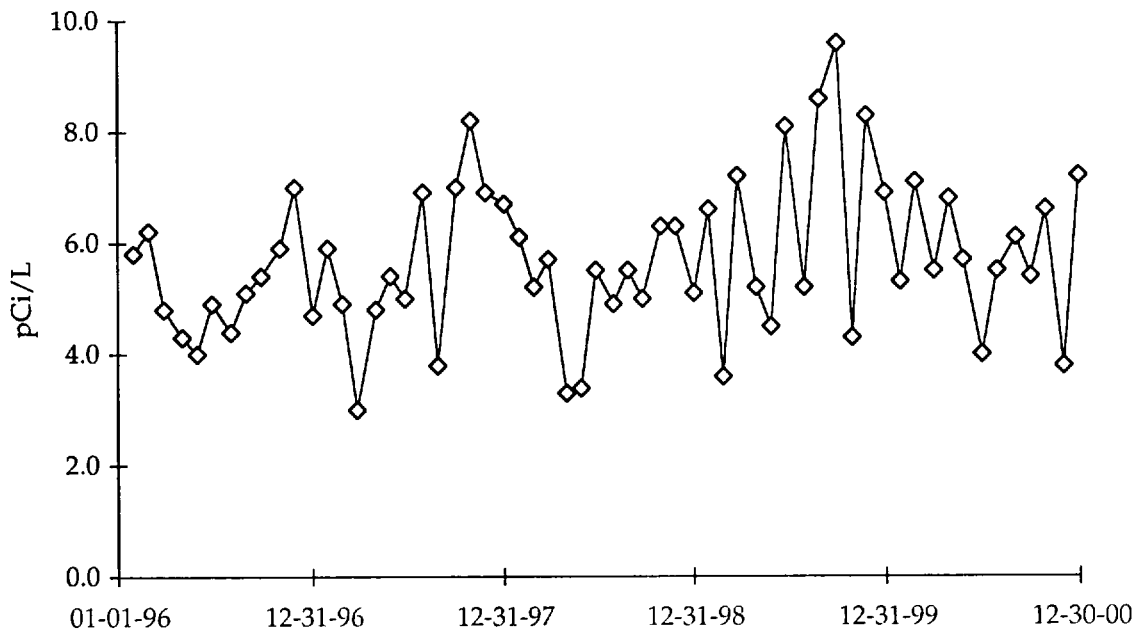


Figure 6. Monthly composites of weekly collections.

L-40 Illinois River Downstream

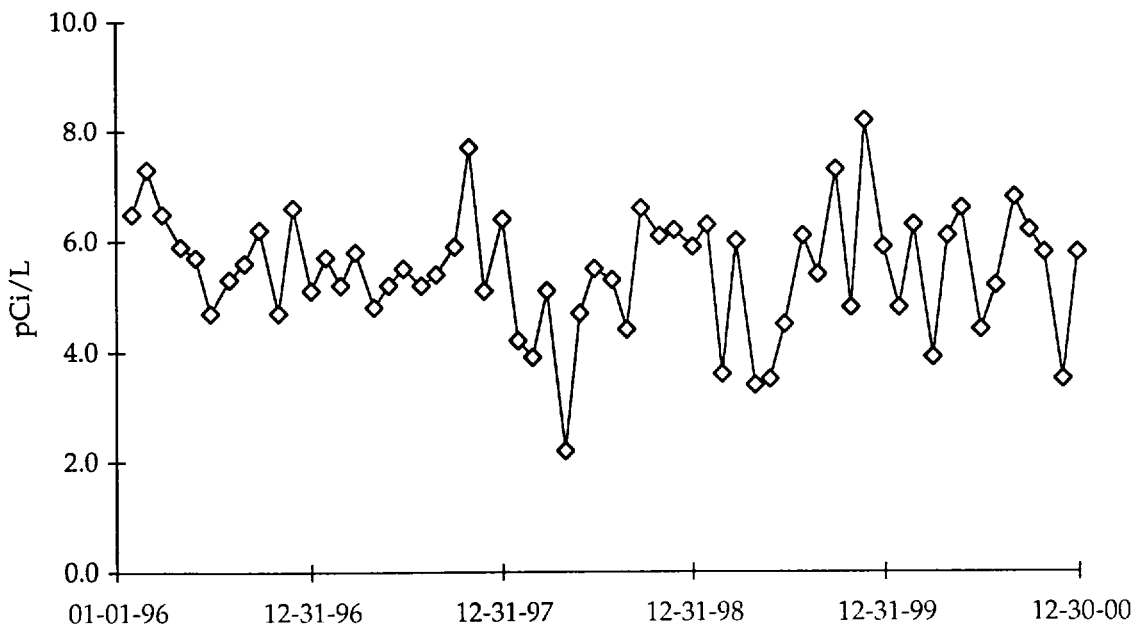


Figure 7. Monthly composites of weekly collections.

Surface Water-Tritium

L-21(C) Illinois River at Seneca

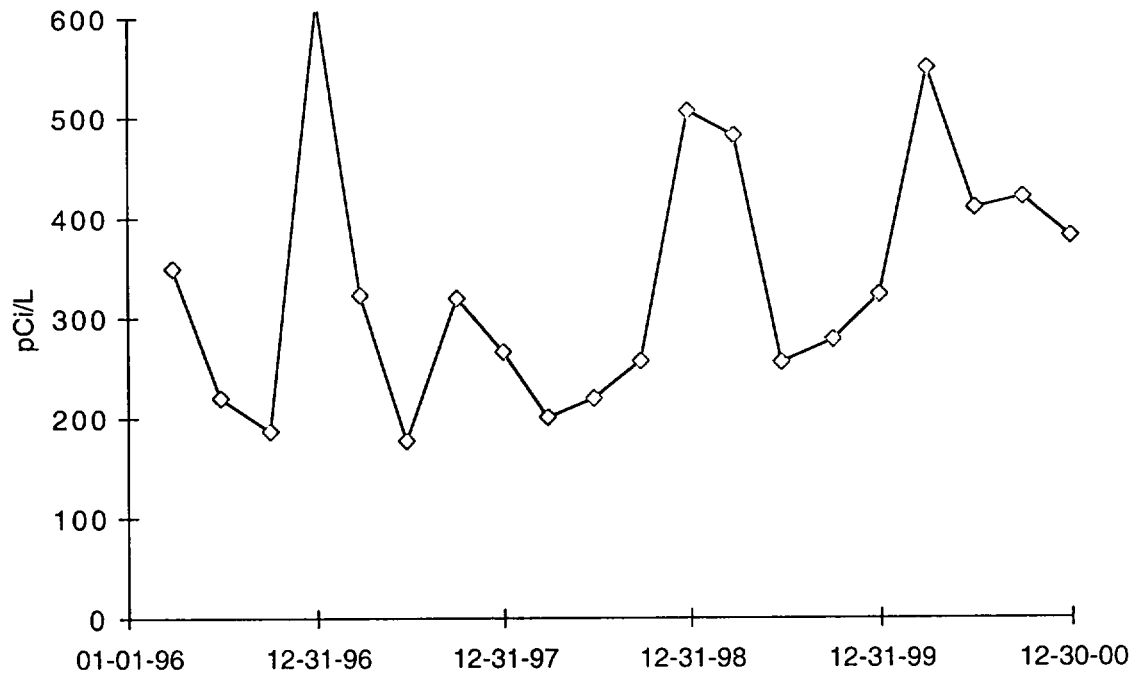


Figure 8. Quarterly composites of weekly collections.

L-40 Illinois River Downstream

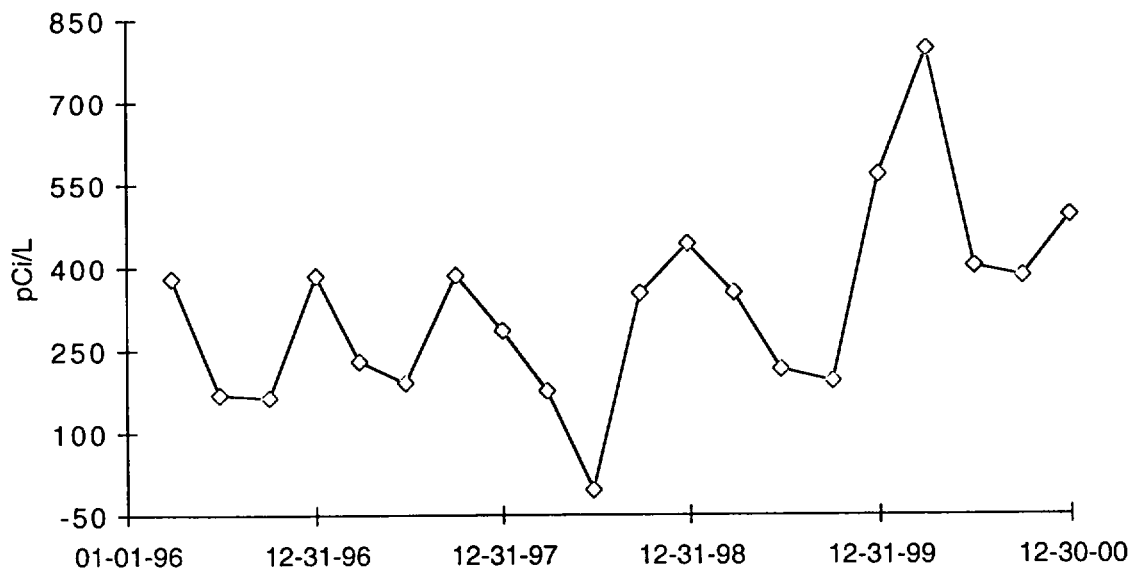


Figure 9. Quarterly composites of weekly collections.

Well Water-Tritium

L-27 LSCS Onsite Well at Station

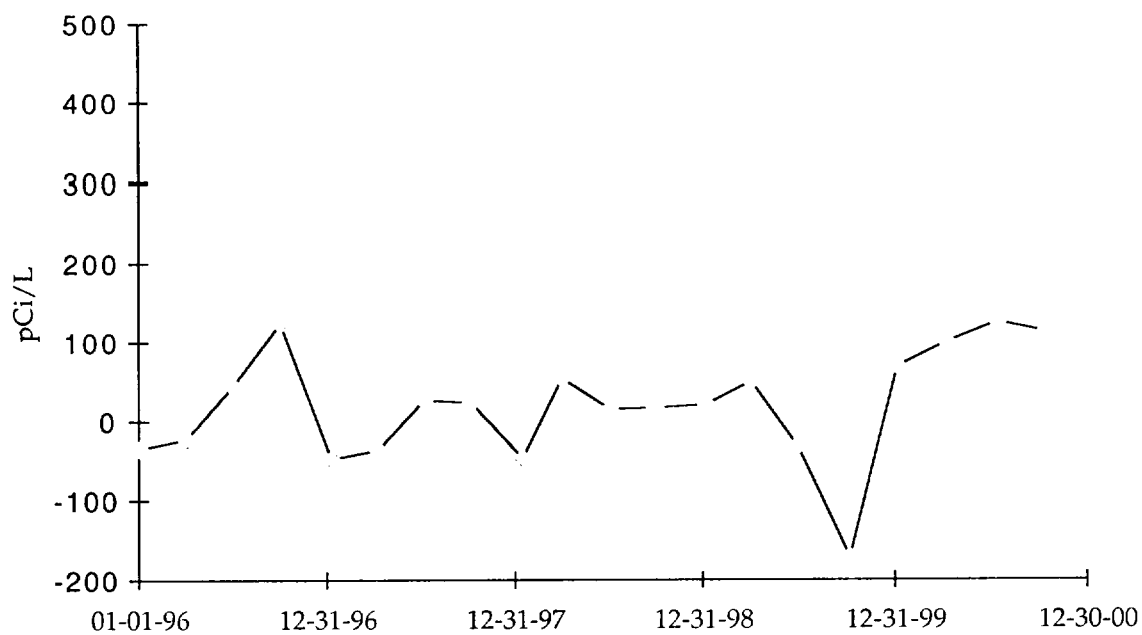


Figure 11. Quarterly collections.

L-28 Marseilles Well

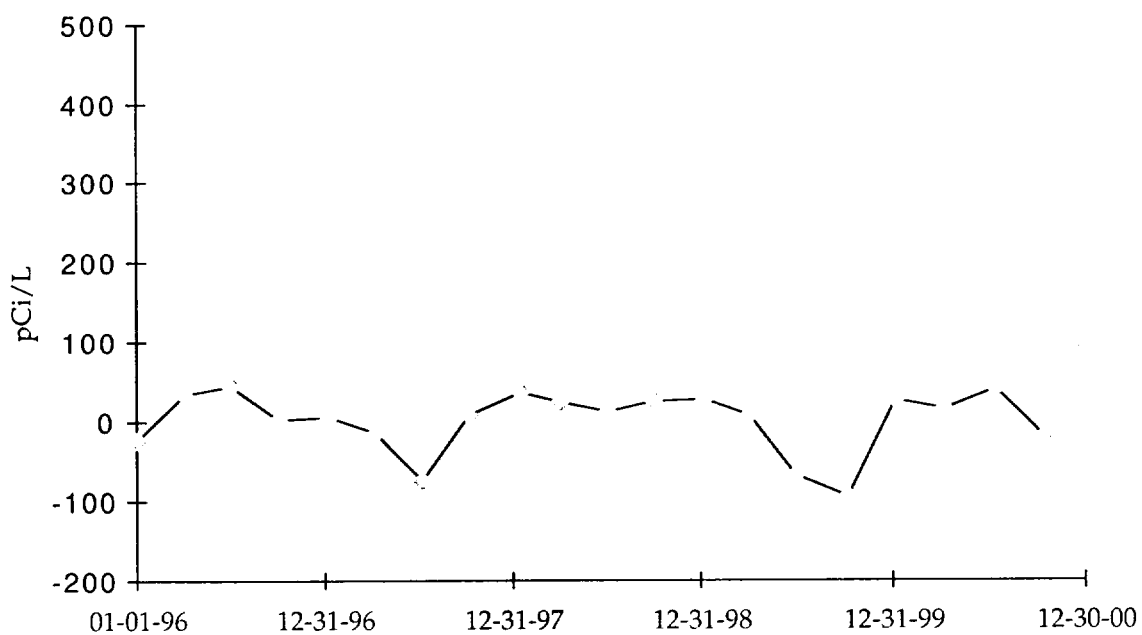


Figure 11. Quarterly collections.

APPENDIX IV
INTERLABORATORY COMPARISON PROGRAM RESULTS

NOTE: Environmental Incorporated Midwest Laboratory participates in intercomparison studies administered by Environmental Resource Associates which serve as a replacement for studies previously conducted by the U.S. EPA Environmental Monitoring Systems Laboratory, Las Vegas, Nevada. The results are reported annually in Appendix IV. Also reported are results of mixed analyte and Environmental Measurements Laboratory performance evaluation programs.

January, 2000 through December, 2000

Appendix IV

Interlaboratory Comparison Program Results

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

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

The results in Table IV-1 were obtained through participation in the environmental sample crosscheck program for milk, water, air filters, and food samples through December 31, 2000. This program was conducted by Environmental Resource Associates and serves to replace studies formerly conducted by the U.S. Environmental Protection Agency Office of Research and Development, National Exposure Research Laboratory Characterization Research Division-Las Vegas, Nevada.

Table IV-2 lists results of the mixed analyte performance evaluation program.

Table IV-3 lists results of the Environmental Measurement Laboratory Quality Assessment Program.

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

Table IV-1. Interlaboratory Comparison Crosscheck program, Environmental Resource Associates (ERA), comparison of ERA and Environmental, Inc. Midwest Laboratory results.^a

Lab Code	Sample Type	Date Collected	Analysis	Concentration in pCi/L ^b		
				ERA Result ^c 1s, N=1	Control Limits	Laboratory Results ± 2 Sigma ^d
STW-863	Water	Jan, 2000	Gr. Alpha	25.4 ± 6.4	14.5 - 36.3	39.3 ± 5.2; 7.1
		The analysis was repeated and recalculated with Am-241 efficiency; result of reanalysis 29.32 ± 5.79 pCi/L. Internal spike program results do not indicate a problem.				
STW-863	Water	Jan, 2000	Gr. Beta	42.1 ± 4.2	33.4 - 50.8	40.7 ± 1.2; 6.4
STW-866	Water	Jan, 2000	Sr-89	22.5 ± 5.0	13.8 - 31.2	17.1 ± 2.2; 2.8
STW-866	Water	Jan, 2000	Sr-90	9.6 ± 5.0	0.9 - 18.3	8.1 ± 0.6; 1.0
STW-868	Water	Feb, 2000	Ra-226	8.3 ± 1.2	6.1 - 10.4	7.6 ± 0.5; 0.9
STW-868	Water	Feb, 2000	Ra-228	2.3 ± 0.6	1.3 - 3.2	5.6 ± 1.0; 1.1
		Result of reanalysis: 6.34 ± 0.94. Activity confirmed by gamma spectroscopy (6.00 ± 1.42 pCi/L).				
STW-868	Water	Feb, 2000	Uranium	6.1 ± 3.0	0.9 - 11.3	5.4 ± 0.2; 0.6
STW-869	Water	Mar, 2000	H-3	23800.0 ± 2380.0	19800.0 - 27800.0	23500.0 ± 306.0; 3210.6
STW-867	Water	Mar, 2000	Gr. Alpha	58.4 ± 5.8	33.3 - 83.5	83.6 ± 5.8; 11.7
		Results were recalculated with Am-241 efficiency; 57.80 ± 5.73 pCi/L. Refer to STW-863.				
STW-867	Water	Mar, 2000	Gr. Beta	16.8 ± 1.7	8.1 - 25.5	15.4 ± 0.9; 2.5
STW-876	Water	Mar, 2000	I-131	19.9 ± 2.0	14.7 - 25.1	18.7 ± 0.6; 2.0
STW-877	Water	Apr, 2000	Gr. Alpha	54.0 ± 13.5	30.8 - 77.2	52.3 ± 2.3; 6.8
STW-877	Water	Apr, 2000	Ra-226	18.6 ± 2.8	13.8 - 23.4	17.5 ± 1.1; 2.1
STW-877	Water	Apr, 2000	Ra-228	3.6 ± 0.9	2.0 - 5.1	3.7 ± 0.4; 0.6
STW-878	Water	Apr, 2000	Co-60	16.9 ± 5.0	8.2 - 25.6	19.2 ± 0.6; 2.8
STW-878	Water	Apr, 2000	Cs-134	86.4 ± 5.0	77.7 - 95.1	81.0 ± 1.3; 11.7
STW-878	Water	Apr, 2000	Cs-137	123.0 ± 6.2	112.0 - 134.0	119.0 ± 2.6; 17.3
STW-878	Water	Apr, 2000	Gr. Beta	289.0 ± 43.4	214.0 - 364.0	276.0 ± 9.6; 43.6
STW-878	Water	Apr, 2000	Sr-89	50.7 ± 5.0	42.0 - 59.4	32.3 ± 3.3; 4.6
STW-878	Water	Apr, 2000	Sr-90	32.8 ± 5.0	24.1 - 41.5	11.3 ± 1.0; 1.5
		An error was found in calculation. Result of recalculation: Sr-89, 55.5 ± 7.2 pCi/L / Sr-90, 30.7 ± 3.0 pCi/L. Results of reanalysis: Sr-89, 47.4 ± 14.5 pCi/L / Sr-90, 33.0 ± 1.35 pCi/L. Both results are within limits.				
STW-879	Water	Jun, 2000	Ba-133	25.5 ± 5.0	16.8 - 34.2	22.4 ± 2.1; 3.8

Table IV-1. Interlaboratory Comparison Crosscheck program, Environmental Resource Associates (ERA), comparison of ERA and Environmental, Inc. Midwest Laboratory results.^a

Lab Code	Sample Type	Date Collected	Analysis	Concentration in pCi/L ^b		
				ERA Result ^c 1s, N=1	Control Limits	Laboratory Results ± 2 Sigma ^d
STW-879	Water	Jun, 2000	Co-60	65.6 ± 5.0	56.9 - 74.3	69.9 ± 3.7; 10.7
STW-879	Water	Jun, 2000	Cs-134	13.8 ± 5.0	5.1 - 22.5	13.5 ± 0.8; 2.1
STW-879	Water	Jun, 2000	Cs-137	238.0 ± 11.9	217.0 - 259.0	232.0 ± 7.8; 34.3
STW-879	Water	Jun, 2000	Zn-65	54.6 ± 5.5	45.3 - 63.9	50.9 ± 3.8; 8.2
STW-880	Water	Jun, 2000	Ra-226	3.0 ± 0.5	2.2 - 3.8	2.8 ± 0.2; 0.3
STW-880	Water	Jun, 2000	Ra-228	13.0 ± 3.3	7.4 - 18.6	10.0 ± 0.9; 1.4
STW-880	Water	Jun, 2000	Uranium	63.4 ± 6.3	52.6 - 74.2	57.0 ± 4.4; 7.2
STW-883	Water	Jul, 2000	Gr. Alpha	7.2 ± 5.0	0.0 - 15.9	6.9 ± 1.1; 1.4
STW-883	Water	Jul, 2000	Gr. Beta	87.5 ± 10.0	70.2 - 105.0	88.8 ± 9.8; 16.8
STW-884	Water	Aug, 2000	H-3	8320.0 ± 832.0	6910.0 - 9730.0	8740.0 ± 174.0; 1201.3
STW-891	Water	Sep, 2000	Ra-226	18.9 ± 2.8	14.0 - 23.8	17.9 ± 1.3; 2.2
STW-891	Water	Sep, 2000	Ra-228	6.2 ± 1.6	3.5 - 8.8	5.7 ± 0.5; 0.8
STW-891	Water	Sep, 2000	Uranium	11.9 ± 3.0	6.7 - 17.1	10.3 ± 0.1; 1.0
STW-892	Water	Oct, 2000	I-131	15.9 ± 1.6	10.7 - 21.1	16.9 ± 0.3; 1.7
STW-892	Water	Oct, 2000	I-131(g)	15.9 ± 1.6	10.7 - 21.1	17.1 ± 5.4; 6.0
STW-893	Water	Oct, 2000	Gr. Alpha	74.4 ± 18.6	42.2 - 107.0	66.3 ± 5.3; 9.7
STW-893	Water	Oct, 2000	Ra-226	10.5 ± 1.6	7.8 - 13.2	10.1 ± 1.0; 1.4
STW-893	Water	Oct, 2000	Ra-228	19.4 ± 4.9	11.0 - 27.8	21.2 ± 0.5; 2.2
STW-893	Water	Oct, 2000	Uranium	44.5 ± 4.5	36.8 - 52.2	41.4 ± 1.9; 4.6
STW-894	Water	Oct, 2000	Co-60	91.1 ± 5.0	82.4 - 99.8	93.4 ± 1.6; 13.5
STW-894	Water	Oct, 2000	Cs-134	59.8 ± 5.0	51.1 - 68.5	54.8 ± 0.3; 7.9
STW-894	Water	Oct, 2000	Cs-137	45.0 ± 5.0	36.3 - 53.7	45.5 ± 2.3; 7.0
STW-894	Water	Oct, 2000	Gr. Beta	256.0 ± 38.4	189.0 - 323.0	209.0 ± 7.9; 33.1
STW-894	Water	Oct, 2000	Sr-89	41.3 ± 5.0	32.6 - 50.0	32.8 ± 3.0; 4.4
STW-894	Water	Oct, 2000	Sr-90	18.0 ± 5.0	9.3 - 26.7	16.0 ± 2.4; 2.9
STW-895	Water	Nov, 2000	Gr. Alpha	60.3 ± 15.1	34.4 - 86.2	50.3 ± 2.6; 6.7
STW-895	Water	Nov, 2000	Gr. Beta	25.5 ± 5.0	16.8 - 34.2	28.6 ± 1.3; 4.6

Table IV-1. Interlaboratory Comparison Crosscheck program, Environmental Resource Associates (ERA), comparison of ERA and Environmental, Inc. Midwest Laboratory results.^a

Lab Code	Sample Type	Date Collected	Analysis	Concentration in pCi/L ^b		
				ERA Result ^c 1s, N=1	Control Limits	Laboratory Results ± 2 Sigma ^d
STW-896	Water	Nov, 2000	Ba-133	82.2 ± 8.2	68.0 - 96.4	78.0 ± 2.0; 11.4
STW-896	Water	Nov, 2000	Co-60	27.8 ± 5.0	19.1 - 36.5	30.8 ± 1.7; 4.7
STW-896	Water	Nov, 2000	Cs-134	76.0 ± 5.0	67.3 - 84.7	67.2 ± 3.3; 10.2
The mean value for Cs-134 of all participating laboratories was 70.7 pCi/L. Other gamma emitters are within limits, the counting efficiency is not suspect. Library values were reviewed and found to be correct.						
STW-896	Water	Nov, 2000	Cs-137	106.0 ± 5.3	96.8 - 115.0	109.0 ± 1.0; 15.7
STW-896	Water	Nov, 2000	Zn-65	79.0 ± 7.9	65.3 - 92.7	81.5 ± 7.4; 13.9

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

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

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

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

Table IV-2. Department of Energy's Mixed Analyte Performance Evaluation Program (MAPEP) ^a.

Lab Code	Sample Type	Date Collected	Analysis	Concentration in Bq/kg ^b		
				MAPEP Result ^d 1s, N=1	Control Limits	Laboratory Results ±Standard Deviation ^c
STSO-882	SOIL	Jan, 2000	Am-241	61.1	42.8 - 79.4	64.9 ± 6.5; 9.2
STSO-882	SOIL	Jan, 2000	Co-57	949.0	664.3 - 1,233.7	721.1 ± 83.8; 110.6
The MAPEP soil sample (STSO-882), as received, did not closely match a standard gamma geometry. The results for gamma-emitting isotopes are reanalyses, with a reduced sample size.						
STSO-882	SOIL	Jan, 2000	Co-60	1,180.0	826.0 - 1,534.0	1,264.4 ± 78.6; 148.9
STSO-882	SOIL	Jan, 2000	Cs-134	1,047.0	732.9 - 1,361.1	969.3 ± 76.9; 123.7
STSO-882	SOIL	Jan, 2000	Cs-137	930.0	651.0 - 1,209.0	944.0 ± 92.0; 131.8
STSO-882	SOIL	Jan, 2000	K-40	652.0	456.4 - 847.6	811.7 ± 79.9; 113.9
STSO-882	SOIL	Jan, 2000	Mn-54	1,023.0	716.1 - 1,329.9	1,103.3 ± 64.2; 127.6
STSO-882	SOIL	Jan, 2000	Ni-63	960.0	672.0 - 1,248.0	711.0 ± 71.1; 100.6
STSO-882	SOIL	Jan, 2000	Pu-239/40	74.4	52.1 - 96.7	67.9 ± 6.8; 9.6
STSO-882	SOIL	Jan, 2000	Sr-90	304.0	212.8 - 395.2	345.0 ± 34.5; 48.8
STSO-882	SOIL	Jan, 2000	U-233/4	90.0	63.0 - 117.0	62.9 ± 6.3; 8.9
Incomplete dissolution of the sample is suspected.						
Results of reanalysis: U-233/234, 67.3 ± 3.3 pCi/g, U-238, 68.1 ± 8.9 pCi/g.						
STSO-882	SOIL	Jan, 2000	U-238	93.0	65.1 - 120.9	63.2 ± 6.3; 8.9
STSO-882	SOIL	Jan, 2000	Zn-65	1,540.0	1,078.0 - 2,002.0	1,544.3 ± 61.5; 166.2

^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 Unless otherwise indicated, laboratory results are given as the mean ± 1 standard deviations for three determinations.

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

Table IV-3. Environmental Measurements Laboratory Quality Assessment Program (EML)^a.

Lab Code	Sample Type	Date Collected	Analysis	Concentration in Bq/L ^b		Control Limits ^e
				Teledyne Result ^c	EML Result ^d	
STSO-870	Soil	Mar, 2000	Ac-228	98.3 ± 7.1; 12.1	97.6 ± 4.2	0.8 - 1.4
STSO-870	Soil	Mar, 2000	Bi-212	98.5 ± 15.1; 18.0	106.0 ± 7.0	0.8 - 1.4
STSO-870	Soil	Mar, 2000	Bi-214	88.0 ± 3.8; 9.6	86.7 ± 3.8	0.8 - 1.4
STSO-870	Soil	Mar, 2000	Cs-137	324.0 ± 5.0; 32.8	339.0 ± 9.3	0.7 - 1.4
STSO-870	Soil	Mar, 2000	K-40	872.0 ± 34.0; 93.6	811.0 ± 29.0	0.7 - 1.6
STSO-870	Soil	Mar, 2000	Pb-212	93.7 ± 2.7; 9.8	97.3 ± 4.6	0.8 - 1.3
STSO-870	Soil	Mar, 2000	Pb-214	100.1 ± 3.7; 10.7	86.5 ± 6.8	0.8 - 1.3
STSO-870	Soil	Mar, 2000	Pu-238	19.8 ± 3.0; 3.6	18.6 ± 0.5	0.2 - 2.0
STSO-870	Soil	Mar, 2000	Pu-239/40	8.1 ± 1.7; 1.9	7.0 ± 0.3	0.6 - 2.0
STSO-870	Soil	Mar, 2000	Sr-90	13.6 ± 3.1; 3.4	20.2 ± 0.2	0.6 - 3.0
STVE-871	Vegetation	Mar, 2000	Am-241	9.8 ± 0.9; 1.3	10.4 ± 1.4	0.6 - 2.9
STVE-871	Vegetation	Mar, 2000	Co-60	46.5 ± 2.1; 6.7	52.8 ± 1.0	0.6 - 1.5
STVE-871	Vegetation	Mar, 2000	Cs-137	1,872.0 ± 46.0; 258.7	1,380.0 ± 20.0	0.8 - 1.5
STVE-871	Vegetation	Mar, 2000	K-40	506.4 ± 28.0; 57.9	521.0 ± 20.0	0.5 - 1.5
STVE-871	Vegetation	Mar, 2000	Pu-239/40	14.3 ± 1.5; 2.1	15.5 ± 2.1	0.6 - 2.0
STVE-871	Vegetation	Mar, 2000	Sr-90	1,198.0 ± 85.0; 146.9	1,780.0 ± 17.8	0.5 - 1.4
STAP-872	Air Filter	Mar, 2000	Co-57	5.9 ± 0.1; 0.6	5.3 ± 0.2	0.6 - 1.3
STAP-872	Air Filter	Mar, 2000	Co-60	5.9 ± 0.1; 0.6	5.3 ± 0.3	0.7 - 1.3
STAP-872	Air Filter	Mar, 2000	Cs-137	7.5 ± 0.1; 0.8	6.1 ± 0.3	0.7 - 1.3
STAP-872	Air Filter	Mar, 2000	Gr. Alpha	3.3 ± 0.1; 0.3	3.0 ± 0.3	0.8 - 1.6
STAP-872	Air Filter	Mar, 2000	Gr. Beta	2.7 ± 0.1; 0.3	2.4 ± 0.2	0.8 - 1.9
STAP-872	Air Filter	Mar, 2000	Mn-54	31.8 ± 0.3; 3.2	27.2 ± 0.8	0.8 - 1.3
STAP-872	Air Filter	Mar, 2000	Pu-238	0.1 ± 0.0; 0.0	0.1 ± 0.0	0.6 - 1.6
STAP-872	Air Filter	Mar, 2000	Pu-239/40	0.1 ± 0.0; 0.0	0.1 ± 0.0	0.7 - 1.6
STAP-872	Air Filter	Mar, 2000	Ru-106	3.5 ± 1.0; 1.1	2.0 ± 1.9	0.5 - 1.6
Result within activity ± error margin.						
STAP-872	Air Filter	Mar, 2000	Sr-90	0.3 ± 0.2; 0.2	0.2 ± 0.0	0.6 - 2.3
STAP-872	Air Filter	Mar, 2000	Uranium	0.1 ± 0.0; 0.0	0.1 ± 0.0	0.8 - 2.9
STW-874	Water	Mar, 2000	Am-241	1.7 ± 0.2; 0.3	2.0 ± 0.2	0.7 - 1.6
STW-874	Water	Mar, 2000	Co-60	51.0 ± 1.2; 7.4	48.9 ± 1.8	0.9 - 1.2
STW-874	Water	Mar, 2000	Cs-137	108.6 ± 1.8; 15.7	103.0 ± 4.0	0.9 - 1.2
STW-874	Water	Mar, 2000	Fe-55	33.0 ± 1.2; 3.5	33.1 ± 0.7	0.3 - 1.6
STW-874	Water	Mar, 2000	Gr. Alpha	1,217.0 ± 35.0; 152.5	1,700.0 ± 170.0	0.6 - 1.3
STW-874	Water	Mar, 2000	Gr. Beta	792.0 ± 25.0; 124.5	690.0 ± 70.0	0.8 - 1.7
STW-874	Water	Mar, 2000	H-3	147.0 ± 26.0; 32.8	79.4 ± 2.5	0.7 - 1.9
STW-874	Water	Mar, 2000	Ni-63	101.0 ± 6.0; 11.7	112.0 ± 11.0	0.8 - 1.3
STW-874	Water	Mar, 2000	Pu-238	0.8 ± 0.2; 0.2	0.9 ± 0.0	0.7 - 1.3
STW-874	Water	Mar, 2000	Pu-239/40	1.0 ± 0.1; 0.1	0.9 ± 0.0	0.6 - 1.4

Table IV-3. Environmental Measurements Laboratory Quality Assessment Program (EML)^a.

Lab Code	Sample Type	Date Collected	Analysis	Concentration in Bq/L ^b		Control Limits ^c
				Teledyne Result ^c	EML Result ^d	
STW-874	Water	Mar, 2000	Sr-90	4.5 ± 1.0; 1.1	3.4 ± 0.1	0.7 - 1.4
STW-874	Water	Mar, 2000	Uranium	0.3 ± 0.0; 0.0	1.0 ± 0.1	0.4 - 1.5
Result reported was for U-234. Result for U (total); 0.58 ± 0.02 pCi/L.						
STSO-885	Soil	Sep, 2000	Ac-228	78.0 ± 1.5; 7.9	80.2 ± 3.6	0.8 - 1.4
STSO-885	Soil	Sep, 2000	Bi-212	73.0 ± 3.3; 8.0	80.5 ± 6.6	0.8 - 1.4
STSO-885	Soil	Sep, 2000	Bi-214	91.0 ± 4.0; 9.9	83.3 ± 4.2	0.8 - 1.4
STSO-885	Soil	Sep, 2000	Cs-137	925.7 ± 14.2; 93.7	1,020.0 ± 51.0	0.7 - 1.4
STSO-885	Soil	Sep, 2000	K-40	713.6 ± 7.1; 71.7	713.0 ± 38.0	0.7 - 1.6
STSO-885	Soil	Sep, 2000	Pb-212	66.1 ± 4.3; 7.9	79.3 ± 4.3	0.8 - 1.4
STSO-885	Soil	Sep, 2000	Pb-214	100.1 ± 3.7; 10.7	86.3 ± 4.3	0.8 - 1.4
STSO-885	Soil	Sep, 2000	Pu-239/40	18.4 ± 0.4; 1.9	16.8 ± 0.3	0.6 - 2.0
STSO-885	Soil	Sep, 2000	Sr-90	39.9 ± 5.3; 6.6	50.4 ± 2.0	0.6 - 3.0
STSO-885	Soil	Sep, 2000	Th-234	154.7 ± 9.3; 18.1	148.0 ± 10.0	0.8 - 1.4
STSO-885	Soil	Sep, 2000	Uranium	254.3 ± 13.0; 28.6	327.0 ± 11.0	0.3 - 1.5
STW-886	Water	Sep, 2000	Am-241	1.3 ± 0.2; 0.2	1.2 ± 0.0	0.7 - 1.6
STW-886	Water	Sep, 2000	Co-60	71.9 ± 7.2; 12.6	73.7 ± 2.9	0.9 - 1.2
STW-886	Water	Sep, 2000	Cs-137	62.7 ± 6.3; 11.0	67.0 ± 3.5	0.9 - 1.3
STW-886	Water	Sep, 2000	H-3	92.3 ± 8.9; 15.4	91.3 ± 0.3	0.7 - 1.9
STW-886	Water	Sep, 2000	Pu-238	0.7 ± 0.1; 0.1	0.8 ± 0.0	0.7 - 1.3
STW-886	Water	Sep, 2000	Pu-239/40	0.6 ± 0.1; 0.1	0.6 ± 1.0	0.6 - 1.4
STW-886	Water	Sep, 2000	Sr-90	4.6 ± 0.4; 0.6	4.5 ± 0.1	0.7 - 1.7
STW-886	Water	Sep, 2000	Uranium	0.8 ± 0.1; 0.1	0.9 ± 0.0	0.4 - 1.5
STW-887	Water	Sep, 2000	Gr. Alpha	1,113.7 ± 17.9; 137.0	1,070.0 ± 100.0	0.6 - 1.3
STW-887	Water	Sep, 2000	Gr. Beta	1,129.4 ± 16.7; 174.7	950.0 ± 90.0	0.8 - 1.7
STAP-888	Air Filter	Sep, 2000	Am-241	0.1 ± 0.0; 0.0	0.0 ± 0.0	0.6 - 1.9
STAP-888	Air Filter	Sep, 2000	Co-57	16.5 ± 0.6; 1.8	14.5 ± 0.5	0.6 - 1.3
STAP-888	Air Filter	Sep, 2000	Co-60	9.2 ± 0.4; 1.0	8.4 ± 0.5	0.7 - 1.3
STAP-888	Air Filter	Sep, 2000	Cs-137	8.8 ± 0.5; 1.0	7.4 ± 0.4	0.7 - 1.3
STAP-888	Air Filter	Sep, 2000	Mn-54	50.2 ± 2.3; 5.5	43.2 ± 1.3	0.8 - 1.4
STAP-888	Air Filter	Sep, 2000	Pu-238	0.0 ± 0.0; 0.0	0.0 ± 0.0	0.6 - 1.6
STAP-888	Air Filter	Sep, 2000	Pu-239/40	0.1 ± 0.0; 0.0	0.1 ± 0.0	0.7 - 1.6
STAP-888	Air Filter	Sep, 2000	Sr-90	3.3 ± 0.1; 0.3	1.6 ± 0.1	0.6 - 2.3
STAP-888	Air Filter	Sep, 2000	U-233/4	0.0 ± 0.0; 0.0	0.0 ± 0.0	0.8 - 2.9
STAP-888	Air Filter	Sep, 2000	U-238	0.0 ± 0.0; 0.0	0.0 ± 0.0	0.8 - 2.6
Result within activity ± error margin.						
STAP-888	Air Filter	Sep, 2000	Uranium	0.1 ± 0.0; 0.0	0.1 ± 0.0	0.8 - 2.9
STAP-889	Air Filter	Sep, 2000	Gr. Alpha	2.8 ± 0.0; 0.3	2.4 ± 0.2	0.8 - 1.6
STAP-889	Air Filter	Sep, 2000	Gr. Beta	2.1 ± 0.0; 0.2	1.5 ± 0.2	0.8 - 1.9

Table IV-3. Environmental Measurements Laboratory Quality Assessment Program (EML)^a.

Lab Code	Sample Type	Date Collected	Analysis	Concentration in Bq/L ^b		Control Limits ^c
				Teledyne Result ^c	EML Result ^d	
STVE-890	Vegetation	Sep, 2000	Am-241	5.9 ± 1.2; 1.3	5.6 ± 0.7	0.6 - 2.9
STVE-890	Vegetation	Sep, 2000	Cm-244	3.2 ± 0.1; 0.3	3.6 ± 0.3	0.4 - 1.9
STVE-890	Vegetation	Sep, 2000	Co-60	29.4 ± 0.4; 4.0	32.8 ± 1.3	0.6 - 1.5
STVE-890	Vegetation	Sep, 2000	Cs-137	739.3 ± 23.0; 103.1	867.0 ± 44.0	0.8 - 1.5
STVE-890	Vegetation	Sep, 2000	K-40	597.5 ± 49.3; 77.5	639.0 ± 34.0	0.5 - 1.5
STVE-890	Vegetation	Sep, 2000	Pu-239/40	4.5 ± 0.2; 0.5	9.6 ± 0.8	0.6 - 2.0
No reason for deviation was found with original result. The result of reanalysis; 12.1 ± 1.1 Bq/kg.						
STVE-890	Vegetation	Sep, 2000	Sr-90	1,201.5 ± 117.3; 167.9	1,150.0 ± 94.0	0.5 - 1.4

^a The Environmental Measurements Laboratory provides the following nuclear species : Air Filters, Soil, Tissue, Vegetation and Water. Teledyne does not participate in the Tissue program.

^b Results are reported in Bq/L with the following exceptions: Air Filter results are reported in Bq/Filter, Soil results are reported in Bq/Kg, Vegetation results are reported in Bq/Kg. The results of elemental Uranium are reported in ug/filter⁻¹, g, or ml.

^c Teledyne results are reported as the mean of three determinations ± standard deviation; total promulgated uncertainty.

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

^e The control limits are reported by EML as the ratio of Reported Value / EML value and are established from percentiles of historic data distributions (1982-1992). The evaluation of this historic data and the development of the control limits is presented in DOE report EML-564.