

GPU NUCLEAR CORPORATION  
OYSTER CREEK NUCLEAR GENERATING STATION  
EFFLUENT RELEASE REPORT  
1982-2

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## SUMMARY

### OYSTER CREEK NUCLEAR GENERATING STATION

### 1982-2 SEMIANNUAL EFFLUENT RELEASE REPORT

The Semiannual Effluent Release Report is submitted to the United States Nuclear Regulatory Commission (NRC) every six months in accordance with the Oyster Creek Nuclear Generating Station (OCNGS) Technical Specifications. It summarizes the radioactive liquid and gaseous effluents released and solid radioactive wastes shipped from the OCNGS. In addition, it describes the results of environmental measurements undertaken to determine the effects of such radioactive releases to the environment. Samples were collected of environmental media such as air, sediment, surface water, well water, soil, precipitation, vegetation, and shellfish. These media are sampled on a routine basis at semimonthly, monthly and/or quarterly frequencies at 37 locations. The annual magnitude of effort to collect and analyze the environmental samples is in excess of four man years at a cost exceeding \$200,000.00. This report concludes that exposures to man from OCNGS radioactive effluents are well below the federal limits contained in Title 10, Part 50 of the Code of Federal Regulations and are considered by the NRC to be within acceptable limits in protecting the health and welfare of the public.

For clarity, the report is organized into three parts. Section I provides a summary of plant operations for the reporting period. OCNGS operated approximately 191 days between June through December.

Section II summarizes the meteorological data and effluents released from the facility. It itemizes stack releases of  $1.07 \times 10^4$  curies of fission and activation gases, 4.74 curies of Tritium, 2.17 curies of non-particulate halogens, and  $5.72 \times 10^{-1}$  curies of particulates. In addition,  $1.26 \times 10^{-4}$  curies of fission and activation products,  $5.61 \times 10^{-3}$  curies of dissolved gases, and 1.05 curies of Tritium were released in 5 batch liquid releases. Section II also itemizes  $1.29 \times 10^3$  curies of radioactivity contained in 552 cubic meters of waste shipped offsite in 49 shipments, as well as  $4.53 \times 10^2$  curies of radioactivity contained in 17 cubic meters of irradiated material which were shipped offsite in 6 shipments. These releases are similar to or less than releases of nuclear plants of comparable type, age, and size. The report underscores the fact that all effluents released were within the federal regulatory requirements of OCNCS Technical Specifications.

Section III summarizes the results of the Radiological Environmental Monitoring Program (REMP). This section concludes that no radioactive levels in the environment were attributable to facility operations for the reporting period. Natural radioactivity and weapon testing fallout were considered the causes of slightly higher than background readings, where detected. All levels of radioactivity in the environment fall well within the acceptable levels considered by the NRC to safeguard the health and welfare of the general public.

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I. INTRODUCTION



## I. INTRODUCTION

The Oyster Creek Nuclear Generating Station has generated electricity since December, 1969. The operating license permits station operation up to a power level of 1930 megawatts (thermal) at a levelized, installed annual capacity of 620 megawatts (electrical). A more detailed description of the facility can be obtained from the Final Environmental Statement.

This report is submitted in accordance with Section 6.9.3 of the Technical Specifications - Appendix A of the Oyster Creek Unit Number 1 Provisional Operating License, DPR-16. Section I includes a brief summary of the plant status from June 1, 1982 through December 31, 1982. This summary reports dates of reactor scrams, controlled reactor shutdowns, reactor startups, and selected reactor power levels.

Section II follows the format of USNRC Regulatory Guide 1.21 for the provision of summaries of OCNCS gaseous effluents, liquid effluents and solid waste offsite shipments. In addition, this section provides information on meteorological data for the reporting period of July 1, 1982 through December 31, 1982. A description of the meteorological data collection system is provided, as well as joint frequency distribution tables for the various stability classes (in USNRC Regulatory Guide 1.21 format) and cumulative wind roses.

Section III provides a summary of the Oyster Creek Radiological Environmental Monitoring Program and its associated sampling data for the reporting period of June 1, 1982 through November 30, 1982 as

required by section 4.6.B(3) of the Technical Specifications -  
Appendix A. Radiological Environmental data are presented as  
recommended in proposed USNRC Regulatory Guide 4.8. This section  
also correlates plant effluent releases to radiological environmental  
data.

PLANT OPERATIONS SUMMARY

June 1, 1982	Operating at Approximately 63% Rated Power
June 4, 1982	Reactor Scram
June 5, 1982	Reactor Startup
June 15, 1982	Operating at Approximately 76% Rated Power
June 30, 1982	Operating at Approximately 75% Rated Power
July 15, 1982	Operating at Approximately 69% Rated Power
July 31, 1982	Operating at Approximately 65% Rated Power
August 15, 1982	Reactor Shutdown
August 29, 1982	Reactor Startup
August 31, 1982	Operating at Approximately 69% Rated Power
September 15, 1982	Operating at Approximately 60% Rated Power
September 30, 1982	Operating at Approximately 56% Rated Power
October 15, 1982	Operating at Approximately 53% Rated Power
October 31, 1982	Operating at Approximately 50% Rated Power
November 15, 1982	Operating at Approximately 47% Rated Power
November 30, 1982	Operating at Approximately 44% Rated Power
December 10, 1982	Reactor Shutdown
December 20, 1982	Reactor Startup
December 31, 1982	Operating at Approximately 41% Rated Power

II. EFFLUENT AND WASTE DISPOSAL SUMMARY

## EFFLUENT AND WASTE DISPOSAL SUMMARY

### A. Gaseous Effluents

During the reporting period, July 1, 1982 through December 31, 1982, a total of 1.07 E4 curies of fission and activation gases, 1.46 E-1 curies of non-particulate halogens (iodines) with half-lives greater than eight days, 5.30 E-2 curies of particulates with half-lives greater than eight days, and 4.74 curies of tritium were released. Totals include effluents released from both the elevated stack and the ground-level radwaste vent. The maximum hourly release rate of gross activity from the stack was 4.16 E3 microcuries per second which occurred at approximately 1300 hours on July 26, 1982. The airborne releases are summarized in Tables 1 through 4.

### B. Liquid Effluents

A total of 2.11 E7 liters of water was processed through the radwaste system. Of this, 3.58 E5 liters containing 1.05 curies of activity were released to the environment. The maximum concentration of gross radioactivity (beta-gamma) released to the unrestricted area (average over the period of release) was 3.29 E-8 microcuries per milliliter on October 10, 1982. The liquid releases are summarized in Tables 5 and 6.

### C. Solid

During the reporting period, a total volume of 5.69 E2 cubic meters of solid waste containing 1.75 E3 curies of activity was shipped off site in 55 shipments. No irradiated fuel was shipped. The solid waste shipments are summarized in Table 7.

D. Meteorological Data

During the reporting period, onsite meteorological conditions were monitored and recorded. Joint frequency distribution of 116 meter (380 feet) and 10 meter (33 feet) wind speed and direction per atmospheric stability class per quarter is summarized. Also included are cumulative wind roses for 10 meter (33 feet) and 116 meter (380 feet). The meteorological data are summarized in Tables 8 through 13.

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT

SUPPLEMENTAL INFORMATION

FACILITY - Oyster Creek Nuclear Generating Station

LICENSEE - Jersey Central Power & Light Company

1. Regulatory Limits

a. Fission and Activation Gases:

Technical Specification 3.6.A.1

$$Q = \frac{0.21}{E} \text{ Ci/sec}$$

b. Iodines and particulates, halflives > 8 days:

Technical Specification 3.6.A2

4 uCi/sec

c. Liquid Effluents:

Technical Specification 3.6.B.1

Maximum permissible concentrations,

Appendix B, Table II, Column 2

of 10 CFR 20.

2. Maximum Permissible Concentrations (MPC)

a. Fission and Activation Gases:

1. Third Quarter - 2.80 E-3 uCi/cc

2. Fourth Quarter - 2.93 E-3 uCi/cc

b. Iodines and Particulates:

1. Third Quarter - 4.21 E-8 uCi/cc

2. Fourth Quarter - 4.21 E-8 uCi/cc

c. Liquid Effluents:

From Appendix B, Table II, Column 2, of  
10 CFR 20

(NOTE: MPC's for isotopes detected listed below)

Unit - uCi/ml

H-3        3 E-3

Co-60     5 E-5

Sr-89     3 E-6

Xe-133    3 E-6

Xe-135    3 E-6

Cs-137    2 E-5

Ce-143    4 E-5

3. Average Energy

a. Third Quarter - 7.77 E-1 MeV

b. Fourth Quarter - 7.55 E-1 MeV

4. Measurements and Approximation of Total Radioactivity

a. Fission and Activation Gases:

The incorporation of a weekly grab sample analysis using gamma ray spectrometry with a GeLi Detector, a conversion factor and the continuous recording of the stack effluent on a continuous activity monitor.

b. Iodines:

Semi-weekly sample analysis using gamma ray spectrometry with a GeLi Detector.



c. Particulates:

Semi-weekly sample analysis using gamma ray spectrometry with a GeLi Detector, low background beta counter, internal proportional beta counter, and a single channel gamma counter.

d. Liquid Effluents:

Analysis per batch release using gamma ray spectrometry with a GeLi Detector, a low background beta counter, and a liquid scintillation counter.

Analysis of Error Associated with the Measurement of Radioactive Materials in Effluents and Solid Wastes

Effluents

All stages of the production of effluent estimates have been assigned an upwardly conservative error potential. Stages include sample collection, radiochemical analysis, and compilation of the effluent estimation process. The use of these error factors assures that facility effluents will not be underestimated.

Solid Waste

The process by which the levels of radioactive materials in solid wastes are estimated is one which requires conservatism throughout. Representative sample analyses and/or surface contamination surveys are combined with estimates of waste volume to provide the level of radioactive materials in solid wastes. Upwardly conservative techniques are used in all phases of this process to assure that the amount of radioactive material in solid wastes are not underestimated.

5. Batch Releases

a. Liquid

1. Number of batch releases:
  - a. Third Quarter - 4 releases
  - b. Fourth Quarter - 1 release
2. Total time period for batch releases:
  - a. Third Quarter - 4.97 E2 minutes
  - b. Fourth Quarter - 2.70 E2 minutes
3. Maximum time period for a batch release:
  - a. Third Quarter - 1.40 E2 minutes
  - b. Fourth Quarter - 2.70 E2 minutes
4. Average time period for a batch release:
  - a. Third Quarter - 1.24 E2 minutes
  - b. Fourth Quarter - 2.70 E2 minutes
5. Minimum time period for a batch release:
  - a. Third Quarter - 1.05 E2 minutes
  - b. Fourth Quarter - 2.70 E2 minutes
6. Average stream flow during periods of release of effluent in a flowing stream:
  - a. Third Quarter - 2.75 E6 liters/minute
  - b. Fourth Quarter - 2.38 E6 liters/minute

6. Abnormal Releases

a. Liquid

1. Number of releases:

None

2. Total activity released:

Not Applicable

b. Gaseous

1. Number of releases:

None

2. Total activity released:

Not Applicable

TABLE 1  
EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT 1982-2  
GASEOUS EFFLUENTS-SUMMATION OF ALL RELEASES

	Unit	Third Quarter	Fourth Quarter	Est. Total Error %
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A. Fission & activation gases

1. Total release	Ci	3.70 E3	7.04 E3	3.0 E1
2. Average release rate for period	μCi/sec	5.47 E2	9.93 E2	
3. Percent of Tech Spec limit	%	2.03 E-1	3.57 E-1	

B. Iodines

1. Total iodine-131	Ci	1.07 E-1	3.86 E-2	2.5 E1
2. Average release rate for period	μCi/sec	1.34 E-2	4.85 E-3	
3. Percent of Tech Spec limit	%	4.51 E-1*	1.72 E-1*	

C. Particulates

1. Particulates with half-lives >8 days	Ci	3.68 E-2	1.62 E-2	2.5 E1
2. Average release rate for period	μCi/sec	4.63 E-3	2.04 E-3	
3. Percent of Tech Spec limit	%	4.51 E-1*	1.72 E-1*	
4. Gross alpha radioactivity	Ci	9.10 E-6	5.45 E-6	

D. Tritium

1. Total release	Ci	2.26	2.48	4.0 E1
2. Average release rate for period	μCi/sec	2.84 E-1	3.12 E-1	

\*Percent of Tech. Spec. Limit for Iodines and Particulates as Required by Technical Specification 3.6.A.2

TABLE 2  
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1982-2  
GASEOUS EFFLUENTS-ELEVATED RELEASE

CONTINUOUS MODE

Nuclides Released	Unit	Third Quarter	Fourth Quarter		MDL uCi/cc
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1. Fission gases

krypton-85m	Ci	1.33 E2	3.76 E2		3.32 E-8
krypton-87	Ci	3.72 E2	1.16 E3		1.81 E-7
krypton-88	Ci	6.63 E2	1.13 E3		9.35 E-8
xenon-133	Ci	6.52 E1	1.97 E2		5.65 E-8
xenon-135	Ci	7.17 E2	2.54 E3		1.12 E-7
xenon-135m	Ci	3.72 E2	3.60 E2		1.65 E-7
xenon-138	Ci	1.20 E3	1.28 E3		7.04 E-7
others					
krypton-89	Ci	< MDL	8.19 E-4		1.65 E-6
xenon-133m	Ci	< MDL	< MDL		2.10 E-7
xenon-137	Ci	1.61 E2	5.33 E-2		2.91 E-6
Total for period	Ci	3.68 E3	7.04 E3		

2. Iodines

Iodine-131	Ci	1.07 E-1	3.86 E-2		2.29 E-13
Iodine-133	Ci	5.69 E-1	2.05 E-1		5.64 E-13
Iodine-135	Ci	9.48 E-1	3.01 E-1		5.25 E-12
Total for period	Ci	1.62	5.45 E-1		

TABLE 3  
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1982-2  
GASEOUS EFFLUENTS - ELEVATED RELEASE

Nuclides Released	Unit	Third Quarter	Fourth Quarter	MDL uCi/cc
3. PAPTICULATES				
Strontium-89	Ci	7.80 E-3	2.81 E-3	8.37 E-15
Strontium-90	Ci	7.49 E-5	5.37 E-5	1.86 E-15
Cesium-134	Ci	7.71 E-5	< MDL	2.60 E-13
Cesium-137	Ci	3.30 E-4	4.75 E-5	2.82 E-13
Barium-140	Ci	2.11 E-2	9.32 E-3	1.26 E-12
Lanthanum-140	Ci	1.69 E-2	8.50 E-3	4.78 E-13
OTHERS				
Chromium-51	Ci	< MDL	1.39 E-4	1.45 E-12
Manganese-54	Ci	3.01 E-3	1.62 E-3	4.10 E-13
Cobalt-58	Ci	2.43 E-4	1.45 E-4	4.12 E-13
Iron-59	Ci	3.94 E-4	2.11 E-4	7.27 E-13
Cobalt-60	Ci	2.61 E-4	2.68 E-4	4.29 E-13
Strontium-91	Ci	1.71 E-1	1.28 E-1	1.68 E-12
Niobium-95	Ci	5.80 E-5	< MDL	4.12 E-13
Technetium-99m	Ci	1.81 E-2	3.20 E-3	5.24 E-13
Iodine-131	Ci	3.18 E-3	1.27 E-3	1.55 E-13
Iodine-133	Ci	4.11 E-2	1.41 E-2	3.53 E-13
Iodine-135	Ci	9.43 E-2	2.43 E-2	3.14 E-12
Cerium-141	Ci	1.25 E-4	2.14 E-4	5.62 E-13
Cerium-144	Ci	9.94 E-5	8.66 E-5	2.88 E-12
Neptunium-239	Ci	1.01 E-4	< MDL	3.88 E-13
TOTAL	Ci	3.78 E-1	1.94 E-1	
NO OTHER NUCLIDES IDENTIFIED				

TABLE 4  
 EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1982-2  
 GASEOUS EFFLUENTS - GROUND LEVEL RELEASES

Nuclides Released	Unit	Third Quarter	Fourth Quarter	MDL uCi/cc
1. Fission Gases				
TOTAL	Ci	1.74 E1	< MDL	
2. Iodines				
Iodine-131	Ci	5.39 E-6	1.23 E-6	3.89 E-13
Iodine-133	Ci	2.04 E-5	3.84 E-6	4.68 E-14
TOTAL	Ci	2.58 E-5	5.07 E-6	
3. Particulates				
Manganese-54	Ci	< MDL	6.24 E-8	8.84 E-14
Cobalt-57	Ci	3.67 E-8	3.22 E-8	1.04 E-14
Cobalt-60	Ci	9.55 E-7	2.09 E-6	8.63 E-14
Strontium-89	Ci	1.04 E-8	MDL	6.79 E-16
Strontium-90	Ci	< MDL	MDL	4.46 E-16
Molybdenum-99	Ci	5.61 E-7	< MDL	4.17 E-13
Technetium-99m	Ci	3.83 E-6	1.74 E-7	5.41 E-14
Cesium-137	Ci	2.17 E-7	9.98 E-7	5.98 E-14
Cerium-141	Ci	9.84 E-8	5.58 E-8	5.37 E-14
Neptunium-239	Ci	1.70 E-7	1.26 E-7	4.19 E-14
TOTAL	Ci	5.88 E-6	3.54 E-6	
NO OTHER NUCLIDES IDENTIFIED				

TABLE 5  
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1982-2  
LIQUID EFFLUENTS-SUMMATION OF ALL RELEASES

	Unit	Third Quarter	Fourth Quarter	Est. Total Error %
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A. Fission and activation products

1. Total releases (not including tritium, gases, alpha)	Ci	1.05 E-4	2.05 E-5	3.0 E1
2. Average diluted concentration during period	μCi/ml	9.33 E-13	1.75 E-13	
3. Percent of applicable limit	%	3.54 E-6	4.85 E-7	

B. Tritium

1. Total release	Ci	8.44 E-1	2.05 E-1	3.0 E1
2. Average diluted concentration during period	μCi/ml	7.50 E-9	1.75 E-9	
3. Percent of applicable limit	%	2.50 E-4	5.84 E-5	

C. Dissolved and entrained gases

1. Total release	Ci	< MDL	5.61 E-3	3.0 E1
2. Average diluted concentration during period	μCi/ml	-	4.79 E-11	
3. Percent of applicable limit	%	-	1.60 E-3	

D. Gross alpha radioactivity

1. Total release	Ci	9.73 E-6	< MDL	3.0 E1
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E. Volume of waste released (prior to dilution)	liters	2.88 E5	7.00 E4	1.0 E1
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F. Volume of dilution water used during period	liters	4.23 E11	4.40 E11	1.0 E1
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TABLE 6  
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1982-2  
LIQUID EFFLUENTS

Nuclides Released	Unit	Third Quarter	Fourth Quarter	MDL uCi/ml
Cobalt-60	Ci	5.66 E-5	2.00 E-5	5.17 E-7
Strontium-89	Ci	3.23 E-6	5.03 E-7	3.91 E-9
Strontium-90	Ci	< MDL	< MDL	3.15 E-9
Cesium-137	Ci	2.55 E-5	< MDL	6.68 E-7
Cerium-143	Ci	1.97 E-5	< MDL	7.85 E-7


Total	Ci	1.05 E-4	2.05 E-5	

Xenon-133	Ci	< MDL	9.38 E-4	5.30 E-7
Xenon-135	Ci	< MDL	4.67 E-3	3.15 E-7
Total	Ci	< MDL	5.61 E-3	

TABLE 7  
 EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1982-2  
 SOLID WASTE AND IRRADIATED FUEL SHIPMENTS

A. Solid waste shipped offsite for burial or disposal (not irradiated fuel)

1. Type of waste	Unit	6-month period	Est. Total Error, %
a. Spent resins, filter sludges, evaporator bottoms, etc.	m <sup>3</sup>	1.50 E2	
	Ci	1.27 E3	5.0 E1
b. Dry compressible waste contaminated equip., etc.	m <sup>3</sup>	4.02 E2	
	Ci	2.49 E1	5.0 E1
c. Irradiated components, control rods, etc.	m <sup>3</sup>	1.70 E1	
	Ci	4.53 E2	5.0 E1
d. Other (describe)	m <sup>3</sup>	-	
	Ci		

2. Estimate of major nuclide composition (by type of waste)	Percentage	Activity (Ci)	MDL uCi/ml
a. Cobalt-60	6.18 E1	7.85 E2	7.35 E-4
Manganese-54	1.48 E1	1.88 E2	7.35 E-4
Cesium-137	9.22	1.17 E2	3.97 E-4
Strontium-89	2.17	2.76 E1	1.12 E-8
Lanthanum-140	2.08	2.64 E1	7.73 E-4
b. Cobalt-60	6.81 E1	1.70 E1	
Cesium-137	1.20 E1	2.99	
Manganese-54	9.31	2.32	
Cesium-134	2.09	5.20 E-1	
Zinc-65	1.09	2.71 E-1	
c. Antimony-125	6.07 E1	2.75 E2	
Cobalt-60	3.93 E1	1.78 E2	
d.			

3. Solid Waste Disposition Number of Shipments	Mode of Transportation	Destination
55	MOTOR VEHICLE	BARNWELL, SC

B. Irradiated Fuel Shipments (Disposition)

Number of Shipments	Mode of Transportation	Destination
None		

Meteorological Data

Abstract

The Oyster Creek Nuclear Generating Station obtains meteorological data from the Forked River meteorological instrument tower. The tower is 400 feet tall and located approximately west-northwest of the site at a distance of 2529 feet from the stack. The following instrumentation is located on the tower:

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HEIGHT OF INSTRUMENT ABOVE GROUND (feet)	INSTRUMENT
33	Wind Speed
	Wind Direction
	Temperature
	Dew Point
150	Wind Speed
	Wind Direction
	Temperature
380	Wind Speed
	Wind Direction
	Temperature
	Dew Point

There are redundant wind speed, wind direction, and temperature sensors at the 33 and 380 foot levels to insure an efficient amount of data recovery and to comply with regulatory requirements. In addition, a

processor calculates temperature differentials ( $\Delta T$ ) between (150-33)- and (380-33)-foot levels. These data are then stored in the on-site computer and are used to determine atmospheric stability and, in turn, atmospheric dispersion. Some of the previously mentioned parameters are also monitored at the Oyster Creek Control Room (380' level wind speed and direction, and the 380-33'  $\Delta T$ ).

The meteorological tower sensors, chart recorders, and processors are calibrated four times a year, according to the proposed U.S. Nuclear Regulatory Commission Regulatory Guide 1.23. Periodic tower inspections are done to insure maximum data integrity. Table 13 shows the monthly Oyster Creek Meteorological Tower data recovery for the six month period from July through December of 1982. Meteorological data are an integral part of the off-site dose assessment program. Occasionally lower percentages of data recovery, as in the month of September, are the result of sensor, computer hardware, and chart recorder malfunctions.

#### Data Analysis

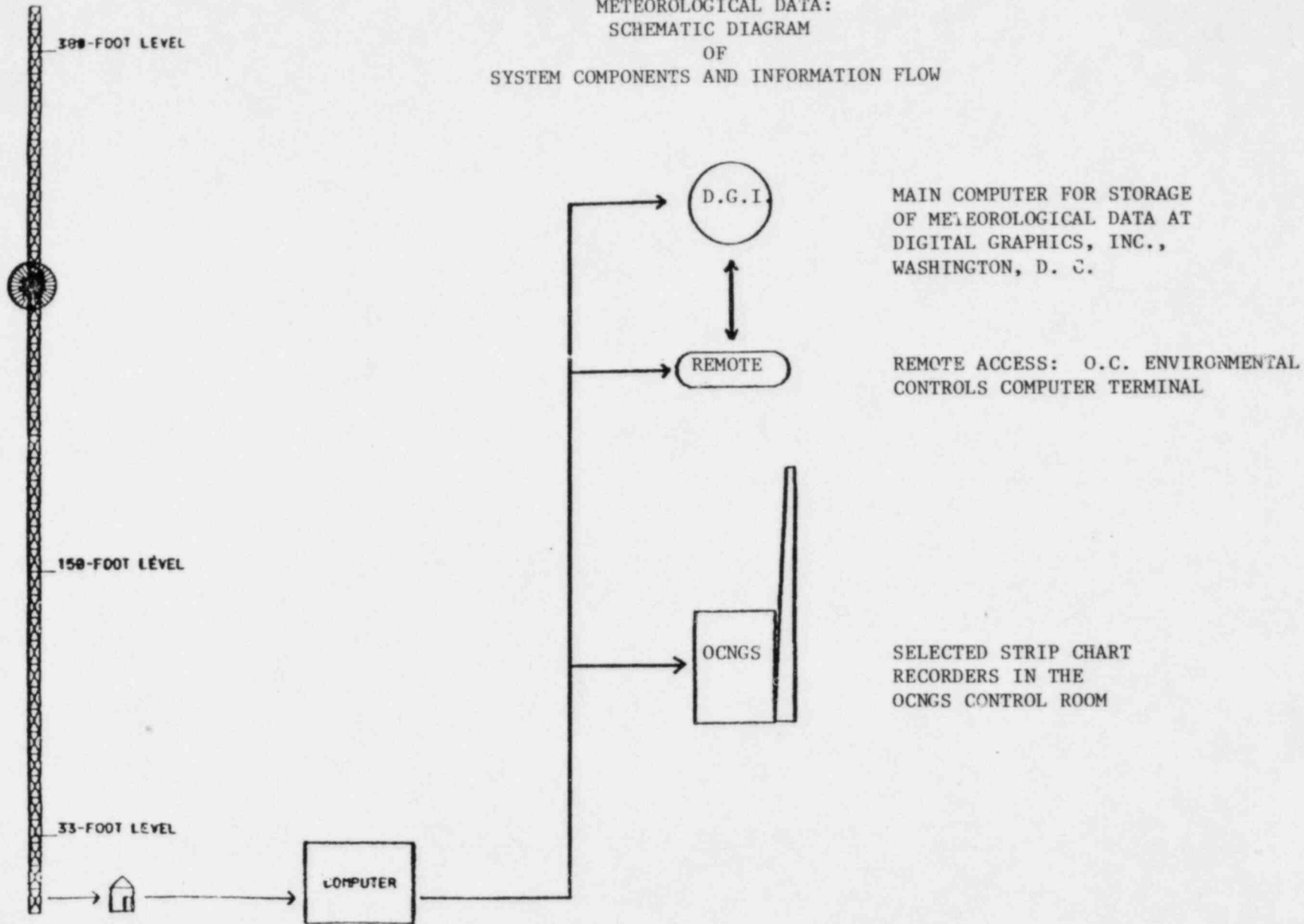
Tables 9 through 12 are the joint frequency distribution tables for the various stability classes as described in U.S. Nuclear Regulatory Commission Reg. Guide 1.21. These atmospheric stability classes are defined in Table 8. Joint frequency tables are represented in Figures 2 and 3 as cumulative semi-annual wind roses. Figures 2 and 3 represent wind roses at the 33-foot and 380-foot levels, respectively. The predominant wind directions are from the northwest, west, and southwest. According to Critchfield (1974) the reason for the diversity of wind directions is a result of changing seasonal heat budget at different

latitudes. During the summer season, the prevailing winds are generally from the southwest. In late fall and winter the prevailing winds are generally from the west and northwest. Obviously, with a large representative data set over such a relatively long period of time, any relatively small weather feature producing infrequent wind directions such as sea breezes and extratropical storms will fail to appear in the cumulative six-month wind roses. For example, the common daytime summer seabreeze creates an easterly wind with high atmospheric stability and thereby suppresses major effluent plume dispersion. This thermally-induced phenomenon disappears at night and ushers the return of normal climatologically prevailing winds.

Precipitation for the period was below normal (12.24 inches). Normal 6-month rainfall is about 21 inches. Rainfall events were primarily due to extratropical storms of light to medium intensity and long duration or violent convective uplift in the form of showers and thunderstorms. This condition is characteristic of heavy rainfall intensity of relatively short duration. Generally, the heavier the intensity (convective showers) the greater the particulate fallout (washout) from the atmosphere which has implications for radionuclide deposition. Such convective showers are characteristic of late spring and summer weather patterns. Suppression of these summer precipitation events so close to the ocean is accomplished by the previously mentioned seabreeze effect. It is common for the showers to build up to the west, move east-northeast, but become stagnant and eventually decay up to 12 miles inland due to the highly stable seabreeze.

FIGURE 1  
 GPU NUCLEAR CORPORATION  
 OYSTER CREEK NUCLEAR GENERATING STATION

METEOROLOGICAL DATA:  
 SCHEMATIC DIAGRAM  
 OF  
 SYSTEM COMPONENTS AND INFORMATION FLOW



400' METEOROLOGICAL TOWER WITH INSTRUMENT TRANSMITTERS AT 3 LEVELS, SIGNAL PROCESSORS, COMPUTER, AND ALL STRIP CHART RECORDERS AT BASE

MAIN COMPUTER FOR STORAGE OF METEOROLOGICAL DATA AT DIGITAL GRAPHICS, INC., WASHINGTON, D. C.

REMOTE ACCESS: O.C. ENVIRONMENTAL CONTROLS COMPUTER TERMINAL

SELECTED STRIP CHART RECORDERS IN THE OCNGS CONTROL ROOM

TABLE 8

## METEOROLOGICAL CLASSIFICATION OF ATMOSPHERIC STABILITY

Stability Classification	Pasquill Categories	$\sigma\theta^1$ (degrees)	Temperature Change With Height ( $^{\circ}\text{F}/100\text{ ft}$ )
Extremely Unstable	A	25.0	-1.0
Moderately Unstable	B	20.0	-1.0 to -0.9
Slightly Unstable	C	15.0	-0.9 to -0.8
Neutral	D	10.0	-0.8 to -0.3
Slightly Stable	E	5.0	-0.3 to 0.8
Moderately Stable	F	2.5	0.8 to 2.2
Extremely Stable	G	1.7	2.2

<sup>1</sup> Standard deviation of horizontal wind direction fluctuation over a period of 15 minutes to 1 hour. The values shown are average for each stability classification.

TABLE 9

Oyster Creek Meteorological Tower Joint Frequency Tables of Wind Speed and  
Wind Direction 33ft versus Delta Temperature 150-33ft for  
the Period 7/1/82 - 9/30/82

SITE, OYSTER CREEK 02/14/83 15.12  
HOURS AT EACH WIND SPEED AND DIRECTION  
PERIOD OF RECORD = 02070101-02093024  
STABILITY CLASS, A DT/DZ  
ELEVATION, SPEED:SPD33A DIRECTION:DIR33A LAPSE:DT150

WIND DIRECTION	WIND SPEED(MPH)						TOTAL
	1-3	4-7	8-12	13-18	19-24	>24	
N	1	20	15	2	0	0	46
NNE	2	22	6	0	0	0	30
NE	3	34	20	2	0	0	67
ENE	2	10	22	0	0	0	43
E	1	25	14	0	0	0	40
ESE	0	28	17	0	0	0	45
SE	1	23	40	1	0	0	73
SSE	0	0	31	4	0	0	44
S	3	10	47	13	0	0	73
SSW	1	0	20	4	0	0	42
SW	0	15	22	0	0	0	37
WSW	1	20	7	1	0	0	29
W	1	22	10	2	0	0	35
WNW	4	22	15	0	0	0	41
NW	1	21	7	0	0	0	29
NNW	2	17	11	0	0	0	30
TOTAL	23	324	320	29	0	0	704

PERIODS OF CALM(HOURS), 3  
VARIABLE DIRECTION, 6  
HOURS OF MISSING DATA, 204  
ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT

SITE, OYSTER CREEK 02/14/83 15.13  
HOURS AT EACH WIND SPEED AND DIRECTION  
PERIOD OF RECORD = 02070101-02093024  
STABILITY CLASS, B DT/DZ  
ELEVATION, SPEED:SPD33A DIRECTION:DIR33A LAPSE:DT150

WIND DIRECTION	WIND SPEED(MPH)						TOTAL
	1-3	4-7	8-12	13-18	19-24	>24	
N	0	3	1	0	0	0	4
NNE	0	1	0	1	0	0	2
NE	0	0	0	1	0	0	1
ENE	0	2	2	0	0	0	4
E	0	1	0	0	0	0	1
ESE	0	1	0	0	0	0	1
SE	2	4	1	0	0	0	7
SSE	0	2	1	0	0	0	3
S	1	2	2	0	0	0	5
SSW	1	1	2	0	0	0	4
SW	1	1	0	0	0	0	2
WSW	0	1	0	0	0	0	1
W	0	1	0	0	0	0	1
WNW	0	0	1	0	0	0	1
NW	1	1	0	0	0	0	2
NNW	1	5	0	0	0	0	6
TOTAL	7	26	10	2	0	0	45

PERIODS OF CALM(HOURS), 3  
VARIABLE DIRECTION, 1  
HOURS OF MISSING DATA, 204  
ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT



TABLE 9 (Continued)

SITE, OYSTER CREEK HOURS AT EACH WIND SPEED AND DIRECTION 02/14/83 15.14  
 PERIOD OF RECORD = 82078101-82083024  
 STABILITY CLASS C D1/D2  
 ELEVATION: SPEED, SPO33A DIRECTION, DIR33A LAPSE, DT150

WIND DIRECTION	WIND SPEED (MPH)							>24 TOTAL
	1-3	4-7	8-12	13-18	18-24	24	TOTAL	
N	4	13	5	0	0	0	0	22
NNE	1	0	1	0	0	0	0	10
NE	0	13	27	3	0	0	0	43
ENE	0	4	5	0	0	0	0	9
E	0	6	5	0	0	0	0	11
ESE	0	0	2	0	0	0	0	2
SE	1	4	2	0	0	0	0	7
SSE	1	12	18	1	0	0	0	24
S	2	26	18	3	0	0	0	40
SSW	1	15	16	0	0	0	0	32
SW	2	7	6	0	0	0	0	25
WSW	4	4	0	0	0	0	0	14
W	4	4	2	0	0	0	0	10
WNW	3	4	3	1	0	0	0	11
NW	2	4	0	1	0	0	0	7
NNW	7	11	3	0	0	0	0	21
TOTAL	32	140	107	0	0	0	0	297

PERIODS OF CALM (HOURS), 7  
 VARIABLE DIRECTION  
 HOURS OF MISSING DATA, 204  
 ENTER: (RETURN) CONTINUE, (50) START OVER, (EX) TO EXIT

SITE, OYSTER CREEK HOURS AT EACH WIND SPEED AND DIRECTION 02/14/83 15.13  
 PERIOD OF RECORD = 82078101-82083024  
 STABILITY CLASS C D1/D2  
 ELEVATION: SPEED, SPO33A DIRECTION, DIR33A LAPSE, DT150

WIND DIRECTION	WIND SPEED (MPH)							>24 TOTAL
	1-3	4-7	8-12	13-18	18-24	24	TOTAL	
N	1	0	0	0	0	0	0	6
NNE	1	1	0	0	0	0	0	2
NE	1	2	0	0	0	0	0	3
ENE	0	2	1	0	0	0	0	3
E	0	1	0	0	0	0	0	1
ESE	0	0	0	0	0	0	0	0
SE	0	3	2	0	0	0	0	4
SSE	0	6	6	1	0	0	0	12
S	0	5	0	0	0	0	0	5
SSW	0	2	0	0	0	0	0	3
SW	1	1	0	0	0	0	0	2
WSW	0	0	0	0	0	0	0	0
W	0	0	1	0	0	0	0	1
WNW	1	3	0	0	0	0	0	4
NW	2	0	1	0	0	0	0	3
NNW	1	1	1	0	0	0	0	3
TOTAL	0	32	10	3	0	0	0	52

PERIODS OF CALM (HOURS), 3  
 VARIABLE DIRECTION  
 HOURS OF MISSING DATA, 204  
 ENTER: (RETURN) CONTINUE, (50) START OVER, (EX) TO EXIT

TABLE 9 (Continued)

SITE, OYSTER CREEK		HOURS AT EACH WIND SPEED AND DIRECTION							02/14/83 15.15			
PERIOD OF RECORD =		820701-8280324							02/14/83 15.15			
STABILITY CLASS.		F							01/DZ			
ELEVATION.		SPEED, SPD33A							DIRECTION, DIR33A		LAPSE, DT150	
		WIND SPEED (MPH)										
WIND DIRECTION		1-3	4-7	8-12	13-18	19-24	>24	TOTAL				
N		3	0	0	0	0	0	0				
NNE		1	0	0	0	0	0	0				
NE		2	2	0	0	0	0	0				
ENE		0	2	0	0	0	0	0				
E		0	0	0	0	0	0	0				
ESE		2	2	0	0	0	0	0				
SE		0	0	0	0	0	0	0				
SSE		3	2	0	0	0	0	0				
S		5	6	1	0	0	0	0				
SSW		4	0	0	0	0	0	0				
SW		0	4	0	0	0	0	0				
WSW		7	12	0	0	0	0	0				
W		3	6	0	0	0	0	0				
WNW		4	10	0	0	0	0	0				
NW		0	17	1	0	0	0	0				
NNW		6	14	1	0	0	0	0				
TOTAL		57	100	3	0	0	0	0				

SITE, OYSTER CREEK		HOURS AT EACH WIND SPEED AND DIRECTION							02/14/83 15.14			
PERIOD OF RECORD =		820701-8280324							02/14/83 15.14			
STABILITY CLASS.		E							01/DZ			
ELEVATION.		SPEED, SPD33A							DIRECTION, DIR33A		LAPSE, DT150	
		WIND SPEED (MPH)										
WIND DIRECTION		1-3	4-7	8-12	13-18	19-24	>24	TOTAL				
N		0	0	0	1	0	0	0				
NNE		2	6	1	0	0	0	0				
NE		3	4	5	1	0	0	0				
ENE		0	2	0	0	0	0	0				
E		2	7	3	0	0	0	0				
ESE		1	4	3	0	0	0	0				
SE		6	4	1	1	0	0	0				
SSE		3	7	2	1	0	0	0				
S		6	24	7	0	0	0	0				
SSW		4	44	3	1	0	0	0				
SW		4	53	5	0	0	0	0				
WSW		0	31	3	0	0	0	0				
W		13	18	0	0	0	0	0				
WNW		12	28	0	0	0	0	0				
NW		11	11	4	0	0	0	0				
NNW		1	17	4	0	0	0	0				
TOTAL		77	253	41	5	0	0	0				

TABLE 9 (Continued)

SITE, OYSTER CREEK		02/14/83 16.15													
PERIOD OF RECORD = 82070191-82003024		HOURS AT EACH WIND SPEED AND DIRECTION													
STABILITY CLASS = ALL D1/D2		82070191-82003024													
ELEVATION, SPEED, SPO33A		DIRECTION, DIR33A LAPSE, DT150													
		WIND SPEED (MPH)													
WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL	WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	7	5	0	0	0	0	12	N	16	69	21	3	0	0	108
NNE	3	0	0	0	0	0	3	NNE	18	38	8	1	0	0	57
NE	0	0	0	0	0	0	0	NE	0	55	65	7	0	0	136
ENE	0	0	0	0	0	0	0	ENE	2	31	38	0	0	0	63
E	2	0	0	0	0	0	2	E	5	48	22	0	0	0	67
ESE	1	1	0	0	0	0	2	ESE	4	36	22	0	0	0	62
SE	0	0	0	0	0	0	0	SE	18	38	53	2	0	0	103
SSE	1	1	0	0	0	0	2	SSE	0	30	46	6	0	0	82
S	0	5	0	0	0	0	14	S	26	78	81	17	0	0	202
SSW	0	3	2	0	0	0	14	SSW	28	82	51	6	0	0	159
SW	28	16	1	0	0	0	37	SW	36	117	35	0	0	0	188
WSW	46	62	1	0	0	0	109	WSW	67	124	13	1	0	0	205
W	52	10	0	0	0	0	71	W	73	62	13	3	0	0	151
WNW	38	11	0	0	0	0	49	WNW	62	78	18	1	0	0	152
NW	25	15	0	0	0	0	40	NW	51	60	13	1	0	0	134
NNW	6	0	0	0	0	0	15	NNW	24	74	28	0	0	0	118
TOTAL	210	137	4	0	0	0	360	TOTAL	423	1021	512	48	0	0	2804
PERIODS OF CALM (HOURS)	3							PERIODS OF CALM (HOURS)	3						
VARIABLE DIRECTION	16							VARIABLE DIRECTION	43						
HOURS OF MISSING DATA	284							HOURS OF MISSING DATA	284						
ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT								ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT							

TABLE 10

Oyster Creek Meteorological Tower Joint Frequency Tables of Wind Speed and  
Wind Direction 33ft versus Delta Temperature 150-33ft for the  
Period 10/1/82 - 12/31/82

SITE: OYSTER CREEK  
HOURS AT EACH WIND SPEED AND DIRECTION  
PERIOD OF RECORD = 02100101-02123124  
STABILITY CLASS: A DT/DZ  
ELEVATION: SPEED: SPD33A DIRECTION: DIR33A LAPSE: DT150

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	1-3	4-7	8-12	13-18	19-24	>24	
N	2	10	16	2	0	0	30
NNE	2	0	0	0	0	0	10
NE	2	16	0	1	0	0	20
ENE	1	13	6	0	0	0	20
E	0	12	6	0	0	0	18
ESE	1	15	2	0	0	0	18
SE	2	5	11	0	0	0	18
SSE	0	4	15	2	0	0	21
S	1	5	25	6	1	0	38
SSW	2	0	10	3	1	0	33
SW	1	16	10	6	0	0	33
WSW	0	7	27	3	0	0	37
W	3	7	15	0	0	0	25
WNW	2	14	34	6	0	0	56
NW	1	10	33	13	0	0	65
NNW	4	15	11	6	0	0	36
TOTAL	24	174	252	48	2	0	500

PERIODS OF CALM (HOURS): 1  
VARIABLE DIRECTION: 6  
HOURS OF MISSING DATA: 40

SITE: OYSTER CREEK  
HOURS AT EACH WIND SPEED AND DIRECTION  
PERIOD OF RECORD = 02100101-02123124  
STABILITY CLASS: B DT/DZ  
ELEVATION: SPEED: SPD33A DIRECTION: DIR33A LAPSE: DT150

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	1-3	4-7	8-12	13-18	19-24	>24	
N	2	2	3	0	0	0	7
NNE	4	3	0	2	0	0	9
NE	4	1	1	0	0	0	6
ENE	1	1	0	0	0	0	2
E	0	3	0	0	0	0	3
ESE	0	0	0	0	0	0	0
SE	0	1	0	0	0	0	1
SSE	0	0	0	1	0	0	1
S	0	3	4	4	0	0	11
SSW	0	0	3	3	0	0	6
SW	0	0	3	0	0	0	3
WSW	0	3	1	0	0	0	4
W	0	0	1	0	0	0	1
WNW	0	3	2	0	0	0	5
NW	1	2	0	1	0	0	4
NNW	2	5	1	0	0	0	8
TOTAL	14	27	10	11	0	0	71

PERIODS OF CALM (HOURS): 1  
VARIABLE DIRECTION: 6  
HOURS OF MISSING DATA: 40

TABLE 10 (Continued)

SITE: OYSTER CREEK 02/14/83 15.21  
 PERIOD OF RECORD = 02100101-02123124  
 STABILITY CLASS: C 01/DZ  
 ELEVATION: SPEED, SPD33A DIRECTION: DIR33A LAPSE: DT150

WIND DIRECTION	WIND SPEED (MPH)							>24 TOTAL
	1-3	4-7	8-12	13-18	19-24			
N	0	0	0	2	0	0	0	
NNE	1	1	1	1	0	0	0	
NE	1	2	2	0	0	0	0	
ENE	2	0	2	0	0	0	0	
E	1	1	0	0	0	0	0	
ESE	1	0	0	0	0	0	0	
SE	0	3	0	0	0	0	0	
SSE	0	0	2	0	0	0	0	
S	0	2	2	1	1	0	0	
SSW	1	0	3	1	3	0	0	
SW	0	1	1	0	0	0	0	
WSW	1	1	2	0	0	0	0	
W	0	3	2	0	0	0	0	
WNW	1	1	1	0	0	0	0	
NW	0	3	1	0	0	0	0	
NNW	0	0	3	0	0	0	0	
TOTAL	8	18	22	6	4	0	59	

PERIODS OF CALMHOURS: 3  
 VARIABLE DIRECTION  
 HOURS OF MISSING DATA: 40  
 ENTER: [RETURN] CONTINUE. [SO] START OVER. [EX] TO EXIT

SITE: OYSTER CREEK 02/14/83 15.21  
 PERIOD OF RECORD = 02100101-02123124  
 STABILITY CLASS: D 01/DZ  
 ELEVATION: SPEED, SPD33A DIRECTION: DIR33A LAPSE: DT150

WIND DIRECTION	WIND SPEED (MPH)							>24 TOTAL
	1-3	4-7	8-12	13-18	19-24			
N	4	0	10	0	0	0	0	
NNE	8	6	13	10	0	0	0	
NE	6	10	20	3	0	0	0	
ENE	2	6	20	1	0	0	0	
E	2	4	2	0	0	0	0	
ESE	2	1	0	0	0	0	0	
SE	3	6	0	0	0	0	0	
SSE	5	7	4	0	0	0	0	
S	6	24	20	13	0	0	17	
SSW	6	14	36	20	13	0	72	
SW	6	6	20	2	0	0	0	
WSW	6	17	4	0	0	0	34	
W	6	15	12	0	0	0	27	
WNW	6	10	7	0	0	0	33	
NW	11	0	10	3	0	0	25	
NNW	5	40	11	0	0	0	32	
TOTAL	84	162	198	63	22	0	540	

PERIODS OF CALMHOURS: 1  
 VARIABLE DIRECTION  
 HOURS OF MISSING DATA: 20  
 ENTER: [RETURN] CONTINUE. [SO] START OVER. [EX] TO EXIT

TABLE 10 (Continued)

SITE: OYSTER CREEK HOURS AT EACH WIND SPEED AND DIRECTION 02/14/83 15.22  
 PERIOD OF RECORD = 02100101-02123124  
 STABILITY CLASS: F 01/02  
 ELEVATION: SPEED:SP033A DIRECTION:DIR13A LAPSE:DT150

WIND DIRECTION	WIND SPEED (MPH)										>24 TOTAL
	1-3	4-7	8-12	13-18	19-24	25-30	31-36	37-43	44-50	>50	
N	2	2	0	0	0	0	0	0	0	0	4
NNE	1	0	0	0	0	0	0	0	0	0	1
NE	0	0	0	0	0	0	0	0	0	0	0
ENE	1	1	0	0	0	0	0	0	0	0	2
E	1	0	0	0	0	0	0	0	0	0	1
ESE	2	0	0	0	0	0	0	0	0	0	2
SE	3	1	0	0	0	0	0	0	0	0	4
SSE	2	4	0	0	0	0	0	0	0	0	6
S	4	2	0	0	0	0	0	0	0	0	6
SSW	4	0	0	0	0	0	0	0	0	0	4
SW	6	10	0	0	0	0	0	0	0	0	16
WSW	4	31	1	0	0	0	0	0	0	0	36
W	6	21	0	0	0	0	0	0	0	0	27
WNW	3	13	0	0	0	0	0	0	0	0	16
NW	5	16	1	0	0	0	0	0	0	0	22
NNW	4	10	1	0	0	0	0	0	0	0	15
TOTAL	48	120	3	0	0	0	0	0	0	0	170

PERIODS OF CALM (HOURS): 1  
 VARIABLE DIRECTION: 5  
 HOURS OF MISSING DATA: 40  
 ENTER: (RETURN) CONTINUE, (SO) START OVER, (EX) TO EXIT

SITE: OYSTER CREEK HOURS AT EACH WIND SPEED AND DIRECTION 02/14/83 15.21  
 PERIOD OF RECORD = 02100101-02123124  
 STABILITY CLASS: E 01/02  
 ELEVATION: SPEED:SP033A DIRECTION:DIR13A LAPSE:DT150

WIND DIRECTION	WIND SPEED (MPH)										>24 TOTAL
	1-3	4-7	8-12	13-18	19-24	25-30	31-36	37-43	44-50	>50	
N	0	2	0	1	0	0	0	0	0	0	11
NNE	3	0	1	0	0	0	0	0	0	0	4
NE	2	2	1	0	0	0	0	0	0	0	5
ENE	5	1	1	0	0	0	0	0	0	0	7
E	2	3	0	0	0	0	0	0	0	0	5
ESE	3	1	0	0	0	0	0	0	0	0	4
SE	0	0	0	0	0	0	0	0	0	0	0
SSE	4	0	2	0	0	0	0	0	0	0	7
S	4	12	0	3	0	0	0	0	0	0	27
SSW	11	20	14	0	0	0	0	0	0	0	55
SW	0	53	17	2	0	0	0	0	0	0	77
WSW	3	51	0	2	0	0	0	0	0	0	60
W	4	28	11	0	0	0	0	0	0	0	43
WNW	2	35	4	0	0	0	0	0	0	0	41
NW	5	20	4	1	0	0	0	0	0	0	30
NNW	5	24	4	0	0	0	0	0	0	0	33
TOTAL	50	267	84	11	0	0	0	0	0	0	420

PERIODS OF CALM (HOURS): 1  
 VARIABLE DIRECTION: 10  
 HOURS OF MISSING DATA: 40  
 ENTER: (RETURN) CONTINUE, (SO) START OVER, (EX) TO EXIT

TABLE 10 (Continued)

SITE: OYSTER CREEK 02/14/83 15.22  
 HOURS AT EACH WIND SPEED AND DIRECTION  
 PERIOD OF RECORD = 02100101-02123124  
 STABILITY CLASS: C DT/DZ  
 ELEVATION: SPEED:SPD33A DIRECTION:DIR33A LAPSE:DT150

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	1-3	4-7	8-12	13-18	19-24	>24	
N	2	3	0	0	0	0	5
NNE	2	0	0	0	0	0	2
NE	1	0	0	0	0	0	1
ENE	1	0	0	0	0	0	1
E	1	0	0	0	0	0	1
ESE	3	0	0	0	0	0	3
SE	4	0	0	0	0	0	4
SSE	4	0	0	0	0	0	4
S	0	1	0	0	0	0	1
SSW	4	3	0	0	0	0	7
SW	16	10	0	0	0	0	26
WSW	42	70	0	0	0	0	112
W	49	18	0	0	0	0	67
WNW	26	20	0	0	0	0	46
NW	22	30	0	0	0	0	52
NNW	18	23	1	0	0	0	42
TOTAL	203	170	1	0	0	0	382

PERIODS OF CALM (HOURS): 1  
 VARIABLE DIRECTION: 13  
 HOURS OF MISSING DATA: 40  
 ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT

SITE: OYSTER CREEK 02/14/83 15.22  
 HOURS AT EACH WIND SPEED AND DIRECTION  
 PERIOD OF RECORD = 02100101-02123124  
 STABILITY CLASS: ALL DT/DZ  
 ELEVATION: SPEED:SPD33A DIRECTION:DIR33A LAPSE:DT150

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	1-3	4-7	8-12	13-18	19-24	>24	
N	12	27	37	13	0	0	89
NNE	20	10	23	13	0	0	74
NE	16	31	42	4	0	0	93
ENE	13	22	20	1	0	0	65
E	7	23	0	0	0	0	30
ESE	12	17	2	0	0	0	31
SE	12	16	11	0	0	0	39
SSE	15	16	23	4	0	0	58
S	23	40	50	27	11	0	160
SSW	20	64	74	20	17	0	212
SW	34	104	57	11	0	0	286
WSW	56	100	44	5	0	0	285
W	68	92	41	0	0	0	281
WNW	40	96	40	0	0	0	192
NW	45	102	40	10	0	0	214
NNW	30	117	32	6	0	0	193
TOTAL	430	974	570	130	20	0	2150

PERIODS OF CALM (HOURS): 1  
 VARIABLE DIRECTION: 63  
 HOURS OF MISSING DATA: 40  
 ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT

TABLE 11

Oyster Creek Meteorological Tower Joint Frequency Tables of Wind Speed and  
Wind Direction 380ft versus Delta Temperature 380-33ft  
for the Period 7/1/82 - 9/30/82

SITE, OYSTER CREEK HOURS AT EACH WIND SPEED AND DIRECTION 82/14/83 15.26  
PERIOD OF RECORD = 82070101-82093024  
STABILITY CLASS: A DT/DZ  
ELEVATION, SPEED, SP380A DIRECTION, DR380A LAPSE, DT380A

WIND DIRECTION	WIND SPEED (MPH)							>24 TOTAL
	1-3	4-7	8-12	13-18	19-24	25-30	31-40	
N	0	0	0	0	0	0	0	0
NNE	0	0	3	0	2	0	0	2
NE	0	0	4	1	0	0	0	3
ENE	0	0	1	5	1	0	0	6
E	0	0	0	10	0	0	0	17
ESE	0	0	5	7	1	0	0	11
SE	0	0	2	11	5	0	0	13
SSE	0	0	0	0	0	0	0	0
S	0	0	0	0	6	0	0	10
SSW	0	0	0	0	7	2	0	14
SW	0	0	0	0	0	0	0	0
WSW	0	0	0	1	4	0	0	5
W	0	0	0	3	3	0	0	6
WNW	0	0	0	0	0	0	0	0
NW	0	0	1	5	6	0	0	12
NNW	0	0	1	2	2	0	0	5
TOTAL	0	0	10	60	65	11	0	146

PERIODS OF CALMHOURS: 3  
VARIABLE DIRECTION: 0  
HOURS OF MISSING DATA: 184  
ENTER: (RETURN) CONTINUE, (SO) START OVER, (EX) TO EXIT

SITE, OYSTER CREEK HOURS AT EACH WIND SPEED AND DIRECTION 82/14/83 15.26  
PERIOD OF RECORD = 82070101-82093024  
STABILITY CLASS: B DT/DZ  
ELEVATION, SPEED, SP380A DIRECTION, DR380A LAPSE, DT380A

WIND DIRECTION	WIND SPEED (MPH)							>24 TOTAL
	1-3	4-7	8-12	13-18	19-24	25-30	31-40	
N	0	0	0	0	0	0	0	0
NNE	0	2	5	4	0	0	0	11
NE	0	1	3	0	0	0	0	4
ENE	0	0	1	0	1	0	0	2
E	0	0	4	18	2	0	0	24
ESE	0	2	0	0	0	0	0	2
SE	0	0	6	2	0	0	0	8
SSE	0	0	1	7	6	0	0	14
S	0	0	0	0	12	0	0	12
SSW	0	0	0	4	2	0	0	6
SW	0	0	1	4	1	0	0	6
WSW	0	0	0	3	0	0	0	3
W	0	0	0	5	1	0	0	6
WNW	0	0	0	3	0	0	0	3
NW	0	0	0	0	0	0	0	0
NNW	0	0	1	4	3	1	0	8
TOTAL	0	11	70	50	4	0	0	144

PERIODS OF CALMHOURS: 3  
VARIABLE DIRECTION: 0  
HOURS OF MISSING DATA: 184  
ENTER: (RETURN) CONTINUE, (SO) START OVER, (EX) TO EXIT



TABLE 11 (Continued)

SITE, OYSTER CREEK HOURS AT EACH WIND SPEED AND DIRECTION 02/14/83 15.20  
 PERIOD OF RECORD = 82070101-82003024  
 STABILITY CLASS, C DT/DZ  
 ELEVATION, SPEED, SP300A DIRECTION, DR300A LAPSE, DT300A

WIND DIRECTION	WIND SPEED (MPH)								>24 TOTAL
	1-3	4-7	8-12	13-18	19-24	25-30	31-35	36-40	
N	0	2	5	3	1	0	0	0	11
NNE	0	0	5	1	0	0	0	0	7
NE	0	4	5	4	1	0	0	0	14
ENE	0	1	5	3	1	0	0	0	10
E	0	1	4	1	0	0	0	0	6
ESE	0	3	0	0	0	0	0	0	11
SE	0	1	11	1	2	0	0	0	13
SSE	0	3	10	2	1	0	0	0	15
S	0	3	3	11	1	0	0	0	16
SSW	0	2	4	0	2	0	0	0	15
SW	0	0	10	5	0	0	0	0	15
WSW	1	2	4	3	3	0	0	0	10
W	0	1	4	3	3	0	0	0	11
WNW	0	1	7	2	1	0	0	0	11
NW	0	6	7	2	0	0	0	0	15
NNW	0	1	5	1	0	0	0	0	7
TOTAL	1	20	68	50	10	0	0	0	188

PERIODS OF CALM(HOURS), 3  
 VARIABLE DIRECTION, 0  
 HOURS OF MISSING DATA, 184  
 ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT

SITE, OYSTER CREEK HOURS AT EACH WIND SPEED AND DIRECTION 02/14/83 15.20  
 PERIOD OF RECORD = 82070101-82003024  
 STABILITY CLASS, D DT/DZ  
 ELEVATION, SPEED, SP300A DIRECTION, DR300A LAPSE, DT300A

WIND DIRECTION	WIND SPEED (MPH)								>24 TOTAL
	1-3	4-7	8-12	13-18	19-24	25-30	31-35	36-40	
N	3	6	12	11	2	0	0	34	
NNE	1	4	14	6	0	0	0	25	
NE	0	0	10	24	15	0	0	71	
ENE	0	1	0	18	4	0	0	35	
E	0	4	5	14	0	0	0	24	
ESE	0	0	0	0	0	0	0	15	
SE	0	11	11	3	0	0	0	25	
SSE	1	6	24	13	2	0	0	46	
S	0	3	23	18	2	1	0	47	
SSW	0	3	22	47	17	3	0	92	
SW	2	5	18	16	4	0	0	37	
WSW	1	0	7	10	4	0	0	22	
W	1	4	5	4	1	0	0	16	
WNW	2	5	4	0	0	0	0	21	
NW	1	3	7	14	1	0	0	28	
NNW	2	2	8	4	1	0	0	17	
TOTAL	15	63	180	211	55	25	0	558	

PERIODS OF CALM(HOURS), 3  
 VARIABLE DIRECTION, 5  
 HOURS OF MISSING DATA, 184  
 ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT

TABLE 11 (Continued)

SITE: OYSTER CREEK HOURS AT EACH WIND SPEED AND DIRECTION 02/14/83 15.30  
 PERIOD OF RECORD = 82070101-82093024  
 STABILITY CLASS: F 01/02  
 ELEVATION: SPEED, SP300A DIRECTION, DP300A LAPSE, DT300A

WIND DIRECTION	WIND SPEED (MPH)								>24 TOTAL	
	1-3	4-7	8-12	13-18	19-24	25-30	31-40	41-50		
N	0	0	0	0	0	0	0	0	2	31
NNE	0	0	0	0	0	0	0	0	0	3
NW	1	0	0	0	0	0	0	0	0	3
ENE	0	2	1	0	0	0	0	0	0	3
E	0	1	0	0	0	0	0	0	0	1
ESE	0	0	2	0	0	0	0	0	0	2
SE	0	0	0	1	0	0	0	0	0	1
SSE	1	2	3	7	0	0	0	0	0	16
S	0	3	7	0	0	0	0	0	0	10
SSW	0	2	10	24	0	0	0	0	0	46
SW	1	2	3	10	22	3	4	1	3	41
WSW	1	4	3	0	17	0	0	0	0	34
W	1	5	4	6	0	0	0	0	0	25
WNW	2	2	4	7	2	0	0	0	0	17
NW	0	1	5	3	14	6	0	0	0	29
NNW	1	2	3	7	4	1	0	0	0	18
TOTAL	9	26	55	75	92	13	270			

PERIODS OF CALM (HOURS): 3  
 VARIABLE DIRECTION: 3  
 HOURS OF MISSING DATA: 184  
 ENTER: [RETURN] CONTINUE, [50] START OVER, [EX] TO EXIT

SITE: OYSTER CREEK HOURS AT EACH WIND SPEED AND DIRECTION 02/14/83 15.20  
 PERIOD OF RECORD = 82070101-82093024  
 STABILITY CLASS: E 01/02  
 ELEVATION: SPEED, SP300A DIRECTION, DP300A LAPSE, DT300A

WIND DIRECTION	WIND SPEED (MPH)								>24 TOTAL	
	1-3	4-7	8-12	13-18	19-24	25-30	31-40	41-50		
N	0	0	0	0	0	0	0	0	0	35
NNE	2	2	10	2	2	0	0	0	0	16
NW	0	1	0	2	2	0	0	0	0	13
ENE	2	0	2	4	0	0	0	0	0	13
E	1	3	3	4	1	0	0	0	0	13
ESE	1	7	5	1	2	0	0	0	0	18
SE	0	6	7	1	2	0	0	0	0	28
SSE	1	0	11	0	2	0	0	0	0	33
S	1	5	10	11	1	0	0	0	0	37
SSW	1	7	10	34	10	1	0	0	0	77
SW	0	1	7	41	36	0	0	0	0	94
WSW	1	4	2	15	16	0	0	0	0	44
W	0	1	1	0	17	1	0	0	0	28
WNW	0	2	0	7	0	0	0	0	0	10
NW	0	6	2	14	0	0	0	0	0	30
NNW	0	2	2	6	10	6	0	0	0	26
TOTAL	11	63	101	162	135	31	503			

PERIODS OF CALM (HOURS): 3  
 VARIABLE DIRECTION: 3  
 HOURS OF MISSING DATA: 184  
 ENTER: [RETURN] CONTINUE, [50] START OVER, [EX] TO EXIT

TABLE 11 (Continued)

SITE, OYSTER CREEK HOURS AT EACH WIND SPEED AND DIRECTION 02/14/83 15.30  
 PERIOD OF RECORD = 82870101-82883024  
 STABILITY CLASS, ALL DT/02  
 ELEVATION, SPEED, SP300A DIRECTION, DR300A LAPSE, DT300A

WIND DIRECTION	WIND SPEED (MPH)									
	1-3	4-7	8-12	13-18	19-24	>24	TOTAL			
N	4	12	44	47	48	3	158			
NNE	3	8	38	14	2	0	65			
NE	1	0	43	34	23	15	125			
NNE	2	11	26	35	7	4	85			
E	2	13	34	22	0	2	73			
ESE	2	25	41	6	2	0	76			
SE	0	22	47	12	2	0	83			
SSE	3	21	63	32	4	0	123			
S	1	14	55	50	6	1	136			
SSW	4	15	60	131	47	4	266			
SW	4	0	46	84	64	12	210			
WSW	4	14	32	44	37	7	138			
W	2	15	20	31	48	4	121			
WNW	4	13	27	41	13	0	98			
NW	2	28	37	63	23	11	156			
NNW	4	12	33	32	19	10	118			
TOTAL	42	233	660	697	329	73	2624			

PERIODS OF CALM (HOURS), 3  
 VARIABLE DIRECTION, 11  
 HOURS OF MISSING DATA, 184  
 ENTER: (RETURN) CONTINUE, (SO) START OVER, (EX) TO EXIT

SITE, OYSTER CREEK HOURS AT EACH WIND SPEED AND DIRECTION 02/14/83 15.30  
 PERIOD OF RECORD = 82870101-82883024  
 STABILITY CLASS, C DT/02  
 ELEVATION, SPEED, SP300A DIRECTION, DR300A LAPSE, DT300A

WIND DIRECTION	WIND SPEED (MPH)									
	1-3	4-7	8-12	13-18	19-24	>24	TOTAL			
N	0	0	0	13	3	1	26			
NNE	0	1	1	4	1	0	7			
NE	0	3	2	0	0	0	5			
NNE	0	1	0	0	0	1	2			
E	0	2	2	0	0	0	4			
ESE	1	3	2	0	0	0	6			
SE	0	2	0	0	0	0	2			
SSE	0	0	0	0	0	0	0			
S	0	2	7	1	0	0	10			
SSW	2	1	6	5	0	0	14			
SW	1	0	11	7	2	0	21			
WSW	0	4	18	4	0	0	22			
W	0	4	7	6	4	0	21			
WNW	0	2	4	5	4	0	15			
NW	1	3	8	19	3	0	34			
NNW	1	3	0	0	3	3	26			
TOTAL	6	31	78	74	22	4	215			

PERIODS OF CALM (HOURS), 3  
 VARIABLE DIRECTION, 1  
 HOURS OF MISSING DATA, 184  
 ENTER: (RETURN) CONTINUE, (SO) START OVER, (EX) TO EXIT



TABLE 12 (Continued)

SITE: OYSTER CREEK 02/14/83 15.41  
 HOURS AT EACH WIND SPEED AND DIRECTION  
 PERIOD OF RECORD = 02100101-02123124  
 STABILITY CLASS: C DT/DZ  
 ELEVATION: SPEED.SP300A DIRECTION.DR300A LAPSE.DT300A

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	1-3	4-7	8-12	13-18	19-24	>24	
N	0	0	4	4	0	0	0
NNE	0	4	1	3	0	0	0
NE	1	0	2	1	2	0	6
ENE	1	1	3	0	0	0	5
E	0	2	0	0	0	0	2
ESE	0	1	2	0	0	0	3
SE	0	1	2	0	0	0	3
SSE	0	1	2	0	0	1	4
S	0	1	0	6	2	0	0
SSW	0	2	2	4	0	0	0
SW	0	0	3	1	4	0	0
WSW	0	0	3	5	3	0	11
W	0	2	2	2	1	0	7
WNW	0	0	3	2	3	1	0
NW	0	0	4	4	3	3	14
NNW	0	1	2	5	0	0	0
TOTAL	2	16	35	37	10	5	113

PERIODS OF CALM (HOURS): 0  
 VARIABLE DIRECTION: 0  
 HOURS OF MISSING DATA: 50  
 ENTER: (RETURN) CONTINUE, (S) START OVER, (EX) TO EXIT

SITE: OYSTER CREEK 02/14/83 15.42  
 HOURS AT EACH WIND SPEED AND DIRECTION  
 PERIOD OF RECORD = 02100101-02123124  
 STABILITY CLASS: D DT/DZ  
 ELEVATION: SPEED.SP300A DIRECTION.DR300A LAPSE.DT300A

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	1-3	4-7	8-12	13-18	19-24	>24	
N	0	4	5	15	15	10	40
NNE	5	11	11	0	0	10	54
NE	1	0	5	14	24	10	63
ENE	3	0	5	3	13	11	43
E	0	5	5	7	1	0	11
ESE	2	6	2	0	0	0	10
SE	0	10	5	0	0	0	15
SSE	2	13	0	0	6	0	46
S	1	6	12	37	7	24	87
SSW	0	3	4	17	22	26	72
SW	2	6	8	12	13	0	40
WSW	1	6	12	20	0	0	47
W	0	1	0	13	10	0	42
WNW	2	2	10	13	13	4	44
NW	2	6	17	10	12	16	63
NNW	1	7	0	22	10	3	51
TOTAL	22	103	127	193	171	130	746

PERIODS OF CALM (HOURS): 0  
 VARIABLE DIRECTION: 10  
 HOURS OF MISSING DATA: 50  
 ENTER: (RETURN) CONTINUE, (S) START OVER, (EX) TO EXIT

TABLE 12 (Continued)

SITE: OYSTER CREEK 02/14/83 15.42  
 HOURS AT EACH WIND SPEED AND DIRECTION  
 PERIOD OF RECORD = 02100101-02123124  
 STABILITY CLASS: E DT/DZ  
 ELEVATION: SPEED: SP300A DIRECTION: DR300A LAPSE: DT300A

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	1-3	4-7	8-12	13-18	19-24	>24	
N	1	1	3	11	13	2	31
NNE	3	0	1	1	0	4	9
NE	0	2	4	3	1	0	10
ENE	0	1	3	5	4	0	13
E	1	4	3	1	0	0	9
ESE	0	1	3	1	0	0	5
SE	0	1	1	2	1	1	6
SSE	0	4	7	6	3	4	24
S	0	1	6	27	16	13	63
SSW	0	0	22	13	33	11	79
SW	0	1	6	8	31	10	56
WSW	0	2	12	13	24	9	60
W	0	0	6	13	10	3	40
WNW	0	1	7	21	33	4	66
NW	0	3	0	11	22	2	46
NNW	0	4	4	13	15	2	38
TOTAL	5	26	95	149	214	65	554

PERIODS OF CALM (HOURS): 0  
 VARIABLE DIRECTION: 13  
 HOURS OF MISSING DATA: 50  
 ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT

SITE: OYSTER CREEK 02/14/83 15.42  
 HOURS AT EACH WIND SPEED AND DIRECTION  
 PERIOD OF RECORD = 02100101-02123124  
 STABILITY CLASS: F DT/DZ  
 ELEVATION: SPEED: SP300A DIRECTION: DR300A LAPSE: DT300A

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	1-3	4-7	8-12	13-18	19-24	>24	
N	1	2	2	11	12	1	29
NNE	0	0	0	6	1	0	7
NE	0	1	1	2	2	0	6
ENE	1	1	1	0	0	0	3
E	0	1	1	0	0	0	2
ESE	0	4	1	0	0	0	5
SE	0	2	0	3	1	0	6
SSE	0	2	1	1	1	1	6
S	0	0	4	10	1	0	15
SSW	0	0	6	13	11	1	31
SW	0	1	5	8	24	12	50
WSW	0	1	7	6	26	13	53
W	0	0	1	0	13	2	25
WNW	0	1	0	3	17	4	25
NW	0	1	2	6	10	3	22
NNW	0	0	3	7	21	0	31
TOTAL	2	17	35	84	140	45	323

PERIODS OF CALM (HOURS): 0  
 VARIABLE DIRECTION: 4  
 HOURS OF MISSING DATA: 50  
 ENTER: [RETURN] CONTINUE, [SO] START OVER, [EX] TO EXIT

TABLE 12 (Continued)

SITE, OYSTER CREEK 02/14/83 15.43  
 HOURS AT EACH WIND SPEED AND DIRECTION  
 PERIOD OF RECORD - 82100181-82123124  
 STABILITY CLASS, C ALL D1/DZ  
 ELEVATION, SPEED, SP388A DIRECTION, DR388A LAPSE, DT388A

WIND DIRECTION	WIND SPEED (MPH)										>24 TOTAL
	1-2	4-7	8-12	13-18	19-24	25-30	31-35	36-40	41-45	46-50	
N	4	18	20	51	43	15	152				
NNE	0	17	21	31	12	14	184				
NE	2	28	21	28	32	11	114				
NNE	6	15	28	12	17	11	81				
E	3	15	12	1	0	0	32				
ESE	3	15	0	1	0	0	28				
SE	3	21	14	5	2	1	46				
SSE	3	12	24	28	18	14	94				
S	3	12	23	183	28	14	286				
SSW	0	0	48	51	68	30	286				
SW	2	11	36	44	70	30	282				
WSW	2	12	30	56	71	24	284				
W	1	4	22	46	63	5	131				
WNW	3	8	24	53	87	18	188				
NW	4	14	36	58	68	28	192				
NNW	1	14	21	64	54	22	176				
TOTAL	40	219	391	616	617	266	2158				

PERIODS OF CALM (HOURS), 0  
 VARIABLE DIRECTION, 55  
 HOURS OF MISSING DATA, 50  
 ENTER, (RETURN) CONTINUE, (S) START OVER, (EX) TO EXIT

SITE, OYSTER CREEK 02/14/83 15.43  
 HOURS AT EACH WIND SPEED AND DIRECTION  
 PERIOD OF RECORD - 82100181-82123124  
 STABILITY CLASS, C ALL D1/DZ  
 ELEVATION, SPEED, SP388A DIRECTION, DR388A LAPSE, DT388A

WIND DIRECTION	WIND SPEED (MPH)										>24 TOTAL
	1-3	4-7	8-12	13-18	19-24	25-30	31-35	36-40	41-45	46-50	
N	2	3	0	6	3	2	25				
NNE	1	6	6	18	2	0	28				
NE	0	3	3	5	0	0	15				
NNE	1	3	2	1	0	0	7				
E	1	2	1	0	0	0	5				
ESE	1	2	1	0	0	0	4				
SE	3	6	2	8	0	0	11				
SSE	1	3	4	2	0	0	10				
S	1	4	0	12	0	0	17				
SSW	0	3	3	3	1	1	11				
SW	0	2	11	11	7	0	31				
WSW	1	3	3	6	5	2	28				
W	0	1	2	3	2	0	6				
WNW	1	3	1	4	14	1	24				
NW	2	3	1	3	4	0	13				
NNW	0	2	0	15	5	6	28				
TOTAL	15	48	40	81	45	12	258				

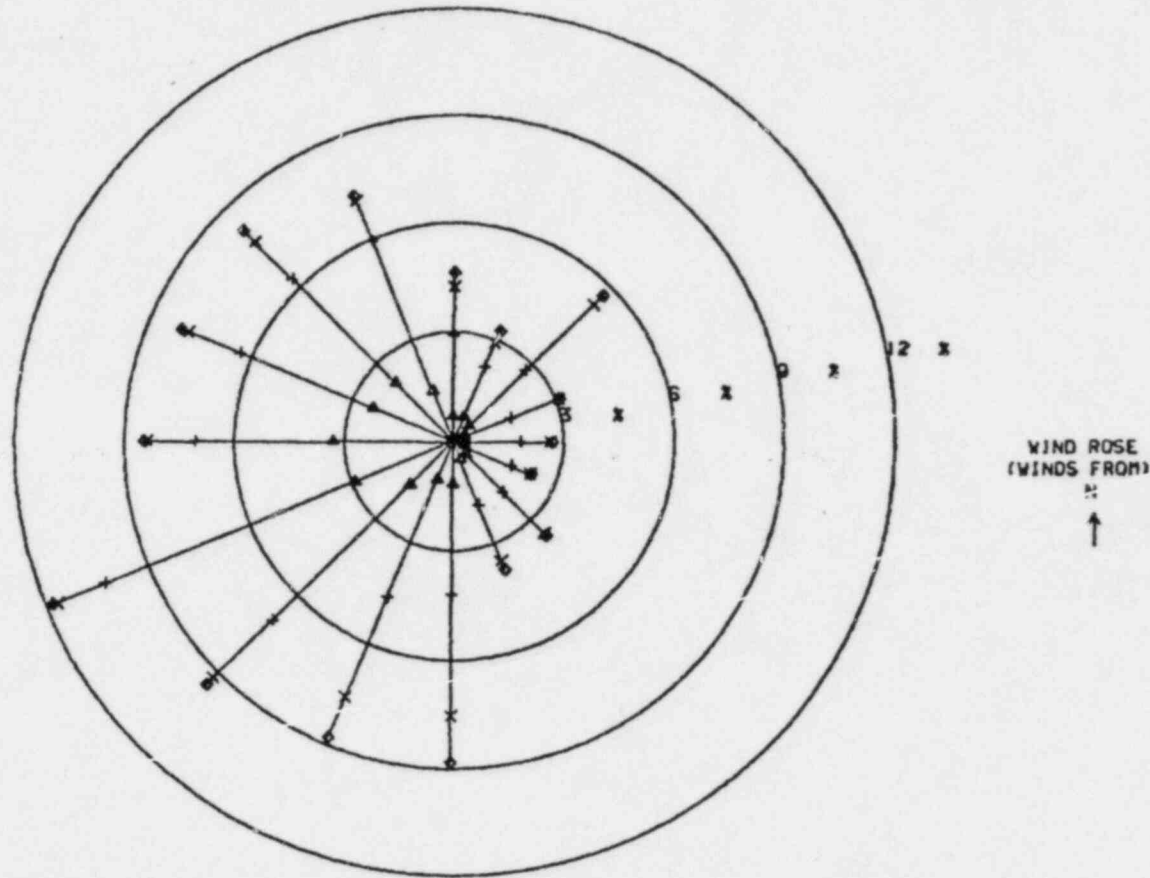
PERIODS OF CALM (HOURS), 0  
 VARIABLE DIRECTION, 20  
 HOURS OF MISSING DATA, 50  
 ENTER, (RETURN) CONTINUE, (S) START OVER, (EX) TO EXIT

TABLE 13  
 AVERAGE METEOROLOGICAL DATA RECOVERY PERCENTAGE  
 FOR THE OYSTER CREEK NUCLEAR GENERATING STATION  
 METEOROLOGICAL TOWER

MONTH	RECOVERY (%)
JUL 82	96
AUG 82	97
SEP 82	82
OCT 82	98
NOV 82	96
DEC 82	96



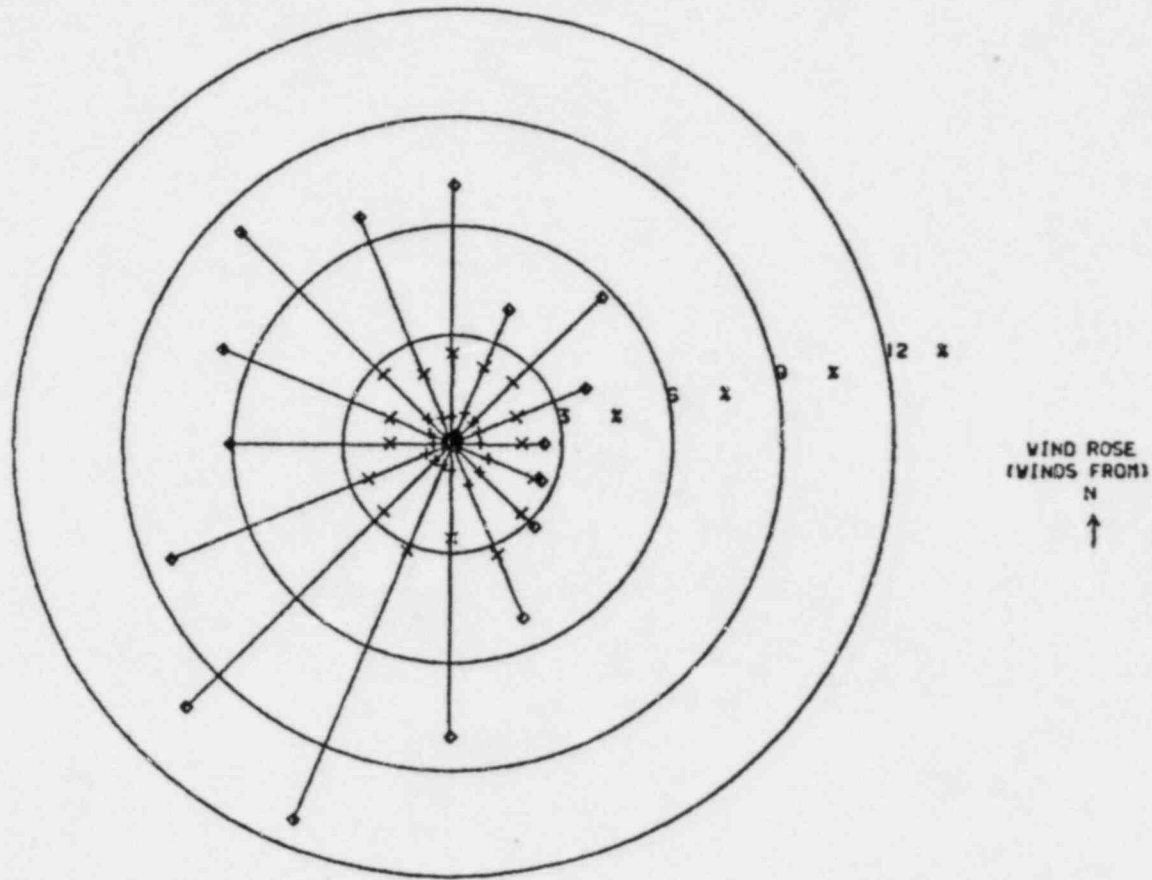
FIGURE 2  
 GPU NUCLEAR CORPORATION  
 OYSTER CREEK NUCLEAR GENERATING STATION  
 JULY 1982 - DECEMBER 1982 (33' LEVEL)



- ▲ WIND SPEED LESS THAN 3.5 MPH
- + WIND SPEED LESS THAN 7.5 MPH
- × WIND SPEED LESS THAN 12.5 MPH
- ◊ WIND SPEED GREATER THAN 12.5 MPH

0.5 PERCENT CALMS  
 (CALMS DEFINED AS SPEED LESS THAN 0.5)

FIGURE 3  
 GPU NUCLEAR CORPORATION  
 OYSTER CREEK NUCLEAR GENERATING STATION  
 JULY 1982 - DECEMBER 1982 (380' LEVEL)



▲ WIND SPEED LESS THAN 3.5 MPH  
 + WIND SPEED LESS THAN 7.5 MPH  
 × WIND SPEED LESS THAN 12.5 MPH  
 ◊ WIND SPEED GREATER THAN 12.5 MPH

0.0 PERCENT CALMS  
 (CALMS DEFINED AS SPEED LESS THAN 0.5)

III. RADIOLOGICAL ENVIRONMENTAL SUMMARY

### SECTION III - RADIOLOGICAL ENVIRONMENTAL SUMMARY

#### Radiological Environmental Monitoring Program

##### Introduction

The Radiological Environmental Monitoring Program was conducted during the reporting period in accordance with Technical Specification 4.6.B.3. The Technical Specifications, which refer to the Application for Reactor License, Docket No. 50-219, Amendment No. 65, require five general types of monitoring: (1) atmospheric radiation, (2) fallout, (3) domestic water, (4) surface water, and (5) marine life. This monitoring was accomplished by collecting samples from the various environmental media at sample collection stations as outlined in Table 14 and Figures 4 and 5.

Specifically, film badges and thermoluminescent dosimeters (TLDs) were analyzed for immersion dose. Particulate filters, air iodine cartridges, precipitation, vegetation, soil, and crops were analyzed for atmospheric radiation and fallout. Well water, surface water, aquatic sediment, and clams, as well as the aforementioned media, were analyzed because of their close association with either plant effluents and/or man's consumption. All results from these analyses are reported in Tables 15 through 18.

Film badges used during the reporting period were inadvertently exposed to gamma radiation in transit. As a result, the high levels of exposure are not representative of environmental radiation levels and in no way represent environmental impact of OCNGS operation. Thermoluminescent dosimeters reflect environmental exposures.

### Sampling Techniques

This sampling process is conducted around the OCNGS as described below:

<u>Environmental Media/Pathway</u>	<u>Mode of Sampling</u>
Atmosphere/direct radiation, inhalation	Composite of Air Particulates on filter  Adsorption of air iodines on charcoal filter
Atmosphere/direct radiation	TLD/Film Badge
Surface Water/ingestion	Grab Sample
Well Water/ingestion	Grab Sample
Precipitation/direct radiation	Composite
Vegetation, Crops/ingestion	Grab
Soil/direct radiation	Grab
Aquatic Sediment/direct radiation	Grab
Shellfish/ingestion	Grab

All samples collected are processed and packed at an offsite lab near the OCNGS, then shipped to the vendor laboratories by overland courier for analysis. Vendor laboratories prepare samples as instructed by the Oyster Creek Environmental Controls Department. Radiochemical analyses are then performed by vendor laboratory, and results are sent to the Oyster Creek Environmental Controls Department.

Data

Tables 15 through 20 represent a summary of all radiological environmental data for the reporting period. Tables 18, 19, and 20 present the data in the manner prescribed in proposed USNRC Regulatory Guide 4.8 and USNRC Branch Technical Position.

TABLE 14  
OYSTER CREEK STATION  
ENVIRONMENTAL MONITORING STATIONS  
LOCATION AND SAMPLE TYPE COLLECTED

<u>STATION NUMBER</u>		<u>SAMPLE COLLECTED</u>
1	Forked River, N.J. - Oyster Creek Meteorological Tower	APT, AIO, RG, RWA, VGTN, SOIL, WWA
T1	Forked River, N.J. - Oyster Creek Meteorological Tower	RG
2	Pinewald, N.J. - Route #9 at JCP&L Company Pinewald Substation north of Forked River, N.J.	APT, AIO, RG, RWA, VGTN, SOIL
3	Island Beach State Park, N.J. - Near old Coast Guard Station	APT, AIO, RG, RWA, VGTN, SOIL
4	Barnegat, N. J. - Route #534, Windward at Barnegat, first road West of Parkway Exit	APT, AIO, RG, RWA, VGTN, SOIL
5	Forked River, N.J. - Garden State Parkway Northbound Entrance to Holiday House	APT, AIO, RG, RWA, VGTN, SOIL
6	Forked River, N.J. - Lane Place behind St. Pius X Catholic Church	RG
7	Waretown, N.J. - Compass Road, second pole North of Bay Parkway	RG
8	Waretown, N.J. - Route #9 at the Waretown Substation	RG
9	Waretown, N.J. - Route #532, North side of road at Parkway	RG
10	Toms River, N.J. - Route #37 East, adjacent to "Eastern Off Road Supply"	RG
11	Harvey Cedars, N.J. - Long Beach Blvd. and East 70th Street, Long Beach Island	RG
12	Cedar Run, N.J. - Route #9, East of Assembly of God Church	RG

TABLE 14  
 OYSTER CREEK STATION  
 ENVIRONMENTAL MONITORING STATIONS  
LOCATION AND SAMPLE TYPE COLLECTED

<u>STATION NUMBER</u>		<u>SAMPLE COLLECTED</u>
13	South Toms River, N.J. - Dover Road, next to last pole traveling West on North side	RG
14	Lakewood, N.J. - Larrabee Substation, just off Route #547 on Randolph Road	RG
15	New Egypt, N.J. - Route #539, last pole on South side, adjacent to "Bomarc" Site	RG
16	Intersection of Route #563 and Route #72, two poles South	RG
17	New Gretna, N.J. - Route #563, 2 miles North, next to High Voltage Line	RG
18	Forked River, N.J. - Lacey Road, Townsend's Marina	WWA
19	Forked River, N.J. - 1015 Inland Road, Forked River Beach	WWA
20	Forked River, N.J. - Finninger Farm at Environmental Lab	WWA
21	Waretown, N.J. - 215 Dock Avenue, Sands Point Harbor	WWA
22	Waretown, N.J. - 1014 Long John, Silver Way, Skippers Cove	WWA
23	Barnegat Bay - Off Stouts Creek approximately 400 yards SE (150°) of FL "1" (Heading on BWN "D")	SWA, AQS, CLAM
24	Barnegat Bay - Approximately 250 yards SE (180°) of FL "3" (Heading on N "66")	SWA, AQS, CLAM



TABLE 14  
OYSTER CREEK STATION  
ENVIRONMENTAL MONITORING STATIONS  
LOCATION AND SAMPLE TYPE COLLECTED

<u>STATION NUMBER</u>		<u>SAMPLE COLLECTED</u>
25	Barnegat Bay - Off Holiday Harbor; approximately 200 yards SE (140°) of the Lagoon Mouth	SWA, AQS, CLAM
26	Forked River, N.J. - South Branch of Forked River, North of Bridge to Visitor Center	SWA, AQS
27	Forked River, N.J. - Downstream of Oyster Creek Fire Pond, approximately 10 yards	SWA, AQS
28	Forked River, N.J. - Lacey Road and the Garden State Parkway	CROP
29	Forked River, N.J. - Route #534 and the Garden State Parkway	CROP
30	Forked River, N.J. - Finninger Farm along fence	CROP
31	Manahawkin Bay - Approximately 25 yards SE (140°) of C "23" and N "24"	SWA, AQS, CLAM
32	Oyster Creek - Mouth of Creek midway between Bulkhead on North Shore and South Shore of Creek	SWA, AQS
33	Oyster Creek - Approximately 1200 yards East of Route #9 Bridge, in middle of channel, directly South of Bulkhead running perpendicular to North Shore	SWA, AQS
A	Allenhurst, N.J. - JCP&L Company District Headquarters	APT, AIO, RG, RWA
C	Cookstown, N.J. - Route #528 Spur, at JCP&L Company District Dispatcher	APT, AIO, RG, RWA

TABLE 14  
 OYSTER CREEK STATION  
 ENVIRONMENTAL MONITORING STATIONS  
LOCATION AND SAMPLE TYPE COLLECTED

<u>STATION NUMBER</u>		<u>SAMPLE COLLECTED</u>
H	Hammonton, N.J. - Egg Harbor Road, at the Atlantic City Electric District Dispatcher	APT, AIO, RG, RWA

APT = Air Particulate

AIO = Air Iodine

RG = Radiogas/Direct Radiation

RWA = Precipitation

WWA = Well Water

SWA = Surface Water

AQS = Aquatic Sediment

CLAM = Clams

CROP = Pasture/Crops

VGTN = Vegetation

SOIL = Soil

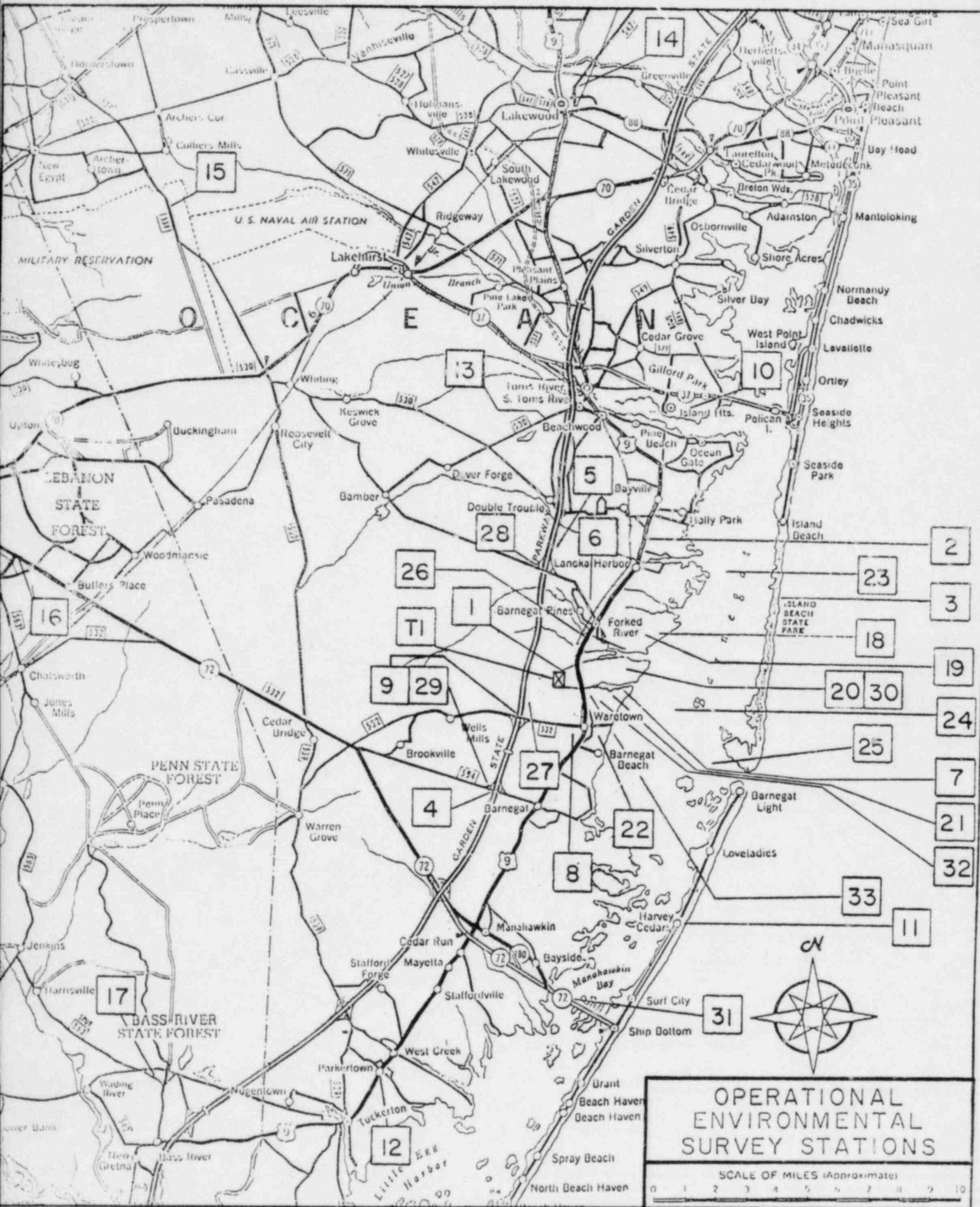


FIGURE 4

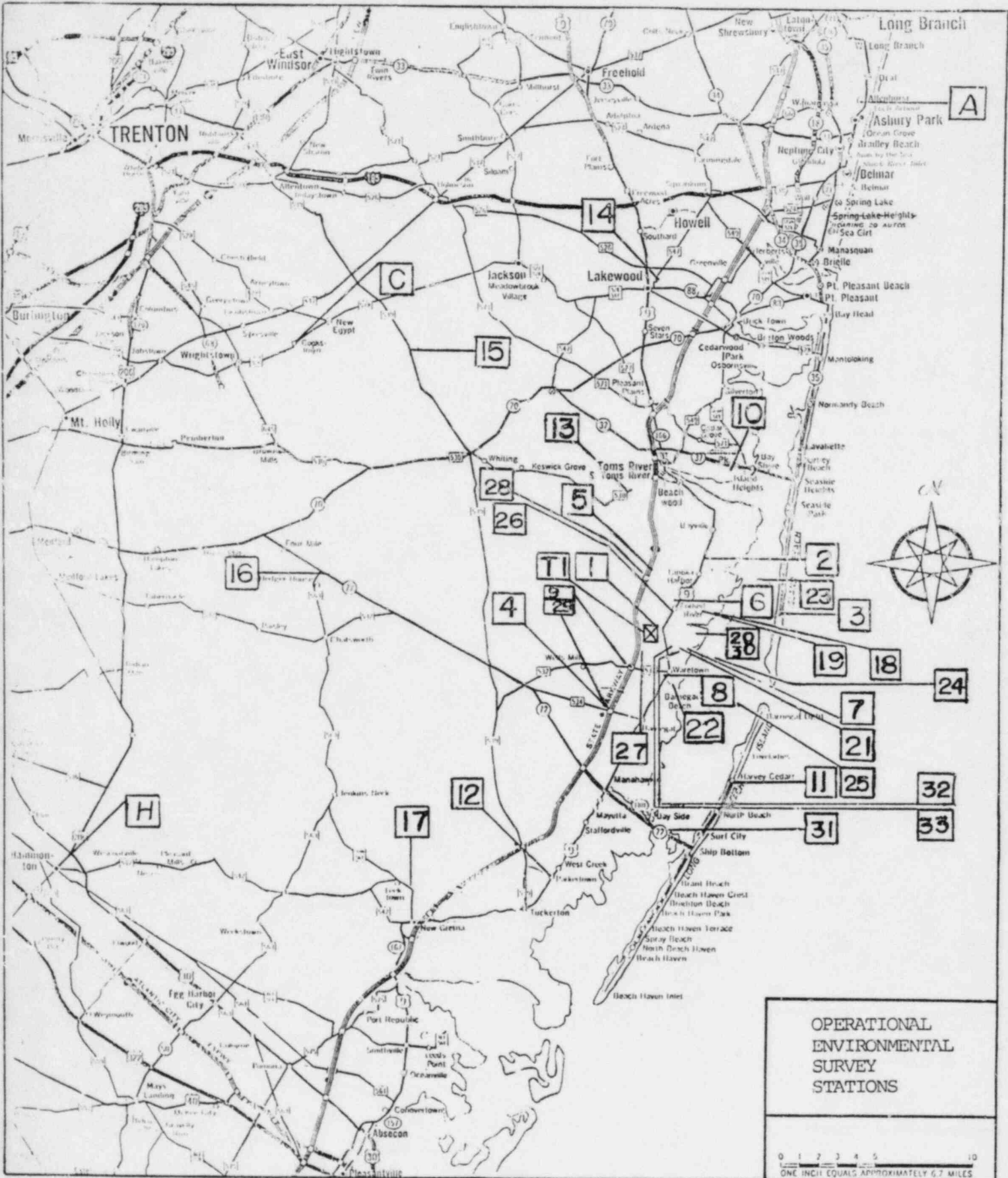


FIGURE 5

TABLE 15

Radiogas Film Badges \*  
Scheduled Collection Period

June 1, 1982 through November 30, 1982

\*These data are not representative  
of environmental levels because  
of accidental exposure -  
See REMP Introduction.

Collection Date	Station	Unit	6-21-82	7-19-82	8-16-82	Three Month Total	9-13-82	10-12-82	11-8-82	Three Month Total	Six Month Total
	1	Millirem	0	8	0	8	9	4	0	13	21
	TL	Millirem	0	4	0	4	4	0	0	4	8
	2	Millirem	0	4	0	4	0	4	0	4	8
	3	Millirem	0	4	0	4	0	0	0	0	4
	4	Millirem	0	4	0	4	0	0	0	0	4
	5	Millirem	0	8	0	8	0	0	0	0	8
	6	Millirem	0	4	0	4	0	4	0	4	8
	7	Millirem	0	4	0	4	0	0	0	0	4
	8	Millirem	0	4	0	4	0	0	0	0	4
	9	Millirem	0	0	0	0	0	0	0	0	0
	10	Millirem	0	4	0	4	0	0	0	0	4
	11	Millirem	0	4	0	4	0	9	0	9	13
	12	Millirem	0	4	0	4	0	0	0	0	4
	13	Millirem	0	0	0	0	0	0	0	0	0
	14	Millirem	0	80	0	80	0	0	0	0	80
	15	Millirem	0	0	0	0	0	0	0	0	0
	16	Millirem	0	3	0	3	0	0	0	0	3
	17	Millirem	0	3	0	3	0	0	0	0	3
	A	Millirem	0	5	0	5	0	0	0	0	5
	C	Millirem	0	3	0	3	0	0	0	0	3
	H	Millirem	0	3	0	3	0	0	0	0	3

TABLE 16

## GAMMA DOSE TO THE ENVIRONMENT (MR)

AS MEASURED BY

THERMOLUMINESCENT DOSIMETER

FOR

JUNE, 1982 THROUGH NOVEMBER, 1982

(MONTHLY TLD READINGS)

ANALYSIS DATE:	07JUL82	02AUG82	30AUG82	24SEP82	22OCT82	22NOV82									
STATION	COLLECT DATE	DOSE	COLLECT DATE	DOSE	COLLECT DATE	DOSE	3-MO TOTAL	COLLECT DATE	DOSE	COLLECT DATE	DOSE	COLLECT DATE	DOSE	3-MO TOTAL	6-MO TOTAL
A	23JUN82	6.27	21JUL82	4.52	18AUG82	6.11	16.90	15SEP82	5.53	12OCT82	6.97	10NOV82	5.84	18.34	35.24
C	22JUN82	5.57	20JUL82	4.36	17AUG82	5.71	15.64	17SEP82	4.47	14OCT82	5.97	09NOV82	4.97	15.41	31.05
H	22JUN82	5.11	20JUL82	3.37	17AUG82	4.99	13.47	17SEP82	4.51	14OCT82	5.24	09NOV82	3.98	13.73	27.20
1	24JUN82	6.65	19JUL82	4.66	16AUG82	6.90	18.21	14SEP82	5.50	13OCT82	6.92	11NOV82	5.00	17.42	35.63
2	24JUN82	4.72	23JUL82	2.73	20AUG82	4.90	12.35	20SEP82	4.49	16OCT82	6.90	11NOV82	4.10	15.49	27.84
3	24JUN82	4.92	21JUL82	2.79	18AUG82	4.66	12.37	16SEP82	4.80	18OCT82	5.72	10NOV82	4.91	15.43	27.80
4	25JUN82	4.30	22JUL82	2.89	20AUG82	4.98	12.17	20SEP82	4.28	16OCT82	5.91	09NOV82	3.99	14.18	26.35
5	23JUN82	4.14	23JUL82	3.11	20AUG82	5.07	12.32	15SEP82	5.15	16OCT82	5.72	10NOV82	4.34	15.21	27.53
6	23JUN82	5.30	21JUL82	3.00	18AUG82	5.06	13.36	14SEP82	4.26	16OCT82	4.92	11NOV82	4.37	13.55	26.91
7	22JUN82	4.75	23JUL82	2.52	23AUG82	5.09	12.36	21SEP82	4.21	16OCT82	5.30	15NOV82	4.39	13.90	26.26
8	22JUN82	4.70	23JUL82	2.62	19AUG82	5.16	12.48	16SEP82	4.10	16OCT82	5.26	12NOV82	3.72	13.08	25.56
9	22JUN82	5.62	22JUL82	3.12	19AUG82	5.53	14.27	17SEP82	5.09	16OCT82	6.13	15NOV82	4.98	16.20	30.47
T1	24JUN82	6.62	19JUL82	4.74	16AUG82	6.23	17.59	14SEP82	5.16	13OCT82	6.63	11NOV82	5.45	17.24	34.83
10	23JUN82	4.35	23JUL82	2.84	20AUG82	5.51	12.70	16SEP82	4.23	16OCT82	5.53	10NOV82	4.29	14.05	26.75
11	25JUN82	4.54	22JUL82	2.58	19AUG82	4.85	11.97	20SEP82	4.41	18OCT82	5.53	12NOV82	3.96	13.90	25.87
12	22JUN82	4.32	20JUL82	2.75	19AUG82	5.17	12.24	17SEP82	4.20	16OCT82	5.53	09NOV82	4.39	14.12	26.36
13	23JUN82	4.79	23JUL82	2.73	20AUG82	5.17	12.69	16SEP82	3.98	16OCT82	5.45	10NOV82	4.07	13.50	26.19
14	23JUN82	6.05	21JUL82	3.76	18AUG82	6.14	15.95	15SEP82	5.52	17OCT82	6.53	10NOV82	5.48	17.53	33.48
15	22JUN82	4.82	20JUL82	2.69	17AUG82	4.59	12.10	17SEP82	3.85	14OCT82	5.64	09NOV82	3.99	13.48	25.58
16	25JUN82	4.08	22JUL82	3.55	19AUG82	4.88	12.51	17SEP82	3.79	18OCT82	5.12	12NOV82	4.39	13.30	25.81
17	22JUN82	5.18	20JUL82	3.15	17AUG82	5.28	13.61	17SEP82	4.25	14OCT82	6.19	09NOV82	4.44	14.88	28.49

TABLE 17

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY  
OYSTER CREEK NUCLEAR GENERATING STATION  
JUNE, 1982 THROUGH NOVEMBER, 1982

THE FOLLOWING PAGES ARE A SUMMARY OF REMP DATA FOR THE SCHEDULED COLLECTION PERIOD JUNE, 1982 THRU NOVEMBER, 1982. DATA IS SUMMARIZED ON A SEMI-ANNUAL AND QUARTERLY BASIS, WHERE

- 1.) XXX-MEAN(N/TOTAL); MEAN AND RANGE BASED ON RANGE DETECTABLE ACTIVITIES OF ALL XXX STATIONS
- 2.) XXX=BACKGROUND OR INDICATOR STATIONS
- 3.) (N/TOTAL)=FRACTION OF DETECTABLE ACTIVITIES/TOTAL NUMBER OF ANALYSES PERFORMED
- 4.) STATION=500 WITH HIGHEST SEMI-ANNUAL MEAN
- 5.) BACKGROUND STATIONS USED ARE:

STATION	A, C, H	31
SAMPLE TYPE	AIR PARTICULATE	SEDIMENT
	AIR IODINE	CLAMS
	PRECIPITATION	SURFACE WATER

- 6.) IN ADDITION, THE FOLLOWING FOOD PRODUCTS WERE SAMPLED FOR GAMMA ISOTOPIC CONTENT DURING THE SUMMER MONTHS:

SAMPLE TYPE	STATION
CORN	1, 2, 3, 4, C
CABBAGE	1, C
TOMATOES	2, 3, 4, 5, A, H
CUCUMBERS	5
GREEN BEANS	A, H

TABLE 18

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY  
OYSTER CREEK NUCLEAR GENERATING STATION  
JUNE, 1982 THROUGH NOVEMBER, 1982  
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE		BACKGROUND-MEAN(N/TOTAL) RANGE		STATIONS USED FOR INDICATOR MEAN					
					STATION		STATION-MEAN(N/TOTAL) RANGE						
VEGETATION (PCI/KG(WET))	GROSS BETA	30	3.31E+01	2.29E+03 (30 /30 ) ( 1.48E+03 - 3.89E+03)		. . . ( . / . ) ( . - . )		1	2	3	4	5	
				2	2.80E+03(6 /6 ) ( 2.46E+03 - 3.89E+03)								
AIR PARTICULATE (PCI/M3 )	GROSS ALPHA	103	6.03E-04	1.44E-03 (46 /65 ) ( 5.22E-04 - 3.64E-03)		1.31E-03(30 /38 ) ( 3.32E-04 - 2.43E-03)		1	2	3	4	5	
				5	1.62E-03(11 /13 ) ( 9.06E-04 - 3.64E-03)								
AIR PARTICULATE (PCI/M3 )	GROSS BETA	103	5.38E-03	1.60E-02 (56 /65 ) ( 7.32E-03 - 2.97E-02)		1.54E-02(37 /38 ) ( 3.59E-03 - 2.81E-02)		1	2	3	4	5	
				5	1.83E-02(12 /13 ) ( 1.04E-02 - 2.97E-02)								
AIR PARTICULATE (PCI/M3 )	GELI GAMMA	CE-144	102	3.40E-02	< LLD (0 /64 )		< LLD (0 /38 )		1	2	3	4	5
					5	< LLD (0 /13 )							
AIR PARTICULATE (PCI/M3 )	GELI GAMMA	AG-110M	103	5.28E-03	< LLD (0 /65 )		< LLD (0 /38 )		1	2	3	4	5
					5	< LLD (0 /13 )							
AIR PARTICULATE (PCI/M3 )	GELI GAMMA	SR-91	1	3.80E-05	< LLD (0 /1 )		. . . ( . / . ) ( . - . )		3				
					3	< LLD (0 /1 )							
AIR PARTICULATE (PCI/M3 )	GELI GAMMA	TE-129M	103	2.38E-01	< LLD (0 /65 )		< LLD (0 /38 )		1	2	3	4	5
					5	< LLD (0 /13 )							



RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY  
 OYSTER CREEK NUCLEAR GENERATING STATION  
 JUNE, 1982 THROUGH NOVEMBER, 1982  
 SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE		BACKGROUND-MEAN(N/TOTAL) RANGE		STATIONS USED FOR INDICATOR MEAN				
						STATION		STATION-MEAN(N/TOTAL) RANGE	1	2	3	4	5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	MO-99	83	4.02E-01	< LLD	(0 /54 )	< LLD	(0 /29 )	1	2	3	4	5
						5	< LLD (0 /9 )						
AIR PARTICULATE (PCI/M3)	GELI GAMMA	ZRNb-95	55	6.32E-03	< LLD	(0 /35 )	< LLD	(0 /20 )	1	2	3	4	5
						5	< LLD (0 /7 )						
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CS-134	103	4.91E-03	< LLD	(0 /65 )	< LLD	(0 /38 )	1	2	3	4	5
						5	< LLD (0 /13 )						
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CO-58	103	6.08E-03	< LLD	(0 /65 )	< LLD	(0 /38 )	1	2	3	4	5
						5	< LLD (0 /13 )						
AIR PARTICULATE (PCI/M3)	GELI GAMMA	MN-54	103	5.53E-03	< LLD	(0 /65 )	< LLD	(0 /38 )	1	2	3	4	5
						5	< LLD (0 /13 )						
AIR PARTICULATE (PCI/M3)	GELI GAMMA	TH-232	103	1.86E-02	< LLD	(0 /65 )	< LLD	(0 /38 )	1	2	3	4	5
						5	< LLD (0 /13 )						
AIR PARTICULATE (PCI/M3)	GELI GAMMA	FE-59	103	1.34E-02	< LLD	(0 /65 )	< LLD	(0 /38 )	1	2	3	4	5
						5	< LLD (0 /13 )						

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY  
 OYSTER CREEK NUCLEAR GENERATING STATION  
 JUNE, 1982 THROUGH NOVEMBER, 1982  
 SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE		BACKGROUND-MEAN(N/TOTAL) RANGE		STATIONS USED FOR INDICATOR MEAN				
					STATION	STATION-MEAN(N/TOTAL) RANGE	STATION	STATION-MEAN(N/TOTAL) RANGE	1	2	3	4	5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CS-136	103	1.41E-02	< LLD	(0 /65 )	< LLD	(0 /38 )	1	2	3	4	5
						5	< LLD (0 /13 )						
AIR PARTICULATE (PCI/M3)	GELI GAMMA	ZN-65	103	1.24E-02	< LLD	(0 /65 )	< LLD	(0 /38 )	1	2	3	4	5
						5	< LLD (0 /13 )						
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CO-60	103	7.55E-03	< LLD	(0 /65 )	< LLD	(0 /38 )	1	2	3	4	5
						5	< LLD (0 /13 )						
AIR PARTICULATE (PCI/M3)	GELI GAMMA	K-40	103	9.10E-02	3.58E-01 (2 /65 ) ( 7.70E-02 - 6.40E-01 )	1.94E-01(3 /38 ) ( 8.30E-02 - 3.80E-01 )	1.94E-01(3 /38 ) ( 8.30E-02 - 3.80E-01 )	1	2	3	4	5	
								5	3.58E-01(2 /13 ) ( 7.70E-02 - 6.40E-01 )				
AIR PARTICULATE (PCI/M3)	GELI GAMMA	BALA-140	103	1.85E-02	< LLD	(0 /65 )	< LLD	(0 /38 )	1	2	3	4	5
						5	< LLD (0 /13 )						
AIR PARTICULATE (PCI/M3)	GELI GAMMA	BE-7	103	6.59E-02	1.01E-01 (25 /65 ) ( 6.10E-02 - 1.50E-01 )	8.00E-02(17 /38 ) ( 2.80E-02 - 1.50E-01 )	8.00E-02(17 /38 ) ( 2.80E-02 - 1.50E-01 )	1	2	3	4	5	
								4	1.40E-01(2 /13 ) ( 1.30E-01 - 1.50E-01 )				
AIR PARTICULATE (PCI/M3)	GELI GAMMA	ZR-95	48	1.09E-02	< LLD	(0 /30 )	< LLD	(0 /18 )	1	2	3	4	5
						5	< LLD (0 /6 )						

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					STATION	STATION-MEAN(N/TOTAL) RANGE	STATION	STATION-MEAN(N/TOTAL) RANGE	1	2	3	4	5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	NB-95	48	7.42E-03	< LLD	(0 /30 )	< LLD	(0 /18 )	1	2	3	4	5
						5		< LLD (0 /6 )					
AIR PARTICULATE (PCI/M3)	GELI GAMMA	SB-125	103	1.48E-02	< LLD	(0 /65 )	< LLD	(0 /38 )	1	2	3	4	5
						5		< LLD (0 /13 )					
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CE-141	102	1.15E-02	< LLD	(0 /64 )	< LLD	(0 /38 )	1	2	3	4	5
						5		< LLD (0 /13 )					
AIR PARTICULATE (PCI/M3)	GELI GAMMA	RU-103	103	6.99E-03	< LLD	(0 /65 )	< LLD	(0 /38 )	1	2	3	4	5
						5		< LLD (0 /13 )					
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CR-51	103	6.73E-02	< LLD	(0 /65 )	< LLD	(0 /38 )	1	2	3	4	5
						5		< LLD (0 /13 )					
AIR PARTICULATE (PCI/M3)	GELI GAMMA	RA-226	103	1.63E-02	< LLD	(0 /65 )	< LLD	(0 /38 )	1	2	3	4	5
						5		< LLD (0 /13 )					
AIR PARTICULATE (PCI/M3)	GELI GAMMA	I-131	102	2.82E-02	< LLD	(0 /64 )	< LLD	(0 /38 )	1	2	3	4	5
						5		< LLD (0 /13 )					

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					STATION	STATION-MEAN(N/TOTAL) RANGE	STATION	STATION-MEAN(N/TOTAL) RANGE	1	2	3	4	5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	NP-239	41	5.96E+01	< LLD	(0 /26 )	< LLD	(0 /15 )	1	2	3	4	5
						5		< LLD (0 /3 )					
AIR PARTICULATE (PCI/M3)	GELI GAMMA	RU-106	103	4.72E-02	< LLD	(0 /65 )	< LLD	(0 /38 )	1	2	3	4	5
						5		< LLD (0 /13 )					
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CO-57	96	4.17E-03	< LLD	(0 /60 )	< LLD	(0 /36 )	1	2	3	4	5
						5		< LLD (0 /12 )					
AIR PARTICULATE (PCI/M3)	GELI GAMMA	I-133	1	4.30E-04	< LLD	(0 /1 )	( . . . ) ( . . . )	( . . . )	3				
						3		< LLD (0 /1 )					
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CS-137	103	5.51E-03	< LLD	(0 /65 )	< LLD	(0 /38 )	1	2	3	4	5
						5		< LLD (0 /13 )					
AIR PARTICULATE (PCI/M3)	STRONTIUM-89		8	8.55E-04	6.01E-04 (1 /5 ) ( 6.01E-04 - 6.01E-04 )		2.32E-04(1 /3 ) ( 2.32E-04 - 2.32E-04 )		1	2	3	4	5
									3	6.01E-04(1 /1 ) ( 6.01E-04 - 6.01E-04 )			
AIR PARTICULATE (PCI/M3)	STRONTIUM-90		8	7.06E-04	< LLD	(0 /5 )	< LLD	(0 /3 )	1	2	3	4	5
						5		< LLD (0 /1 )					

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					STATION	STATION-MEAN(N/TOTAL) RANGE	1	2	3	4	5		
PRECIPITATION (PCI/L)	GROSS BETA-SS	48	1.59E+00	5.41E+00 (3 /30 ) ( 4.05E-01 - 1.45E+01)	2	1.07E+00(2 /18 ) ( 9.73E-01 - 1.16E+00)	1	2	3	4	5		
						1.45E+01(1 /6 ) ( 1.45E+01 - 1.45E+01)							
PRECIPITATION (PCI/L)	GROSS BETA-DS	48	1.61E+00	4.31E+00 (23 /30 ) ( 9.95E-01 - 9.76E+00)	2	3.66E+00(15 /18 ) ( 1.45E+00 - 7.43E+00)	1	2	3	4	5		
						5.25E+00(6 /6 ) ( 2.49E+00 - 9.76E+00)							
PRECIPITATION (PCI/L)	GELI GAMMA	CE-144	8	8.34E+01 < LLD (0 /5 )	5	< LLD (0 /3 )	1	2	3	4	5		
						< LLD (0 /1 )							
PRECIPITATION (PCI/L)	GELI GAMMA	AG-110M	8	9.15E+00 < LLD (0 /5 )	5	< LLD (0 /3 )	1	2	3	4	5		
						< LLD (0 /1 )							
PRECIPITATION (PCI/L)	GELI GAMMA	TE-129M	8	3.96E+02 < LLD (0 /5 )	5	< LLD (0 /3 )	1	2	3	4	5		
						< LLD (0 /1 )							
PRECIPITATION (PCI/L)	GELI GAMMA	MO-99	8	5.24E+02 < LLD (0 /5 )	5	< LLD (0 /3 )	1	2	3	4	5		
						< LLD (0 /1 )							
PRECIPITATION (PCI/L)	GELI GAMMA	CS-134	8	8.72E+00 < LLD (0 /5 )	5	< LLD (0 /3 )	1	2	3	4	5		
						< LLD (0 /1 )							

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					STATION	STATION-MEAN(N/TOTAL) RANGE	STATION	STATION-MEAN(H/TOTAL) RANGE	1	2	3	4	5
PRECIPITATION (PCI/L)	GELI GAMMA	CO-58	8	9.89E+00	< LLD	(0 / 5 )	< LLD	(0 / 3 )	1	2	3	4	5
						5	< LLD (0 / 1 )						
PRECIPITATION (PCI/L)	GELI GAMMA	MN-54	8	8.76E+00	< LLD	(0 / 5 )	< LLD	(0 / 3 )	1	2	3	4	5
						5	< LLD (0 / 1 )						
PRECIPITATION (PCI/L)	GELI GAMMA	TH-232	8	2.99E+01	< LLD	(0 / 5 )	< LLD	(0 / 3 )	1	2	3	4	5
						5	< LLD (0 / 1 )						
PRECIPITATION (PCI/L)	GELI GAMMA	FE-59	8	1.85E+01	< LLD	(0 / 5 )	< LLD	(0 / 3 )	1	2	3	4	5
						5	< LLD (0 / 1 )						
PRECIPITATION (PCI/L)	GELI GAMMA	CS-136	8	1.89E+01	< LLD	(0 / 5 )	< LLD	(0 / 3 )	1	2	3	4	5
						5	< LLD (0 / 1 )						
PRECIPITATION (PCI/L)	GELI GAMMA	ZN-65	8	1.69E+01	< LLD	(0 / 5 )	< LLD	(0 / 3 )	1	2	3	4	5
						5	< LLD (0 / 1 )						
PRECIPITATION (PCI/L)	GELI GAMMA	CO-60	8	7.89E+00	< LLD	(0 / 5 )	< LLD	(0 / 3 )	1	2	3	4	5
						5	< LLD (0 / 1 )						

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						STATION		STATION-MEAN(N/TOTAL) RANGE					
PRECIPITATION (PCI/L)	GELI GAMMA	K-40	8	6.90E+01	< LLD	(0 / 5 )	< LLD	(0 / 3 )	1	2	3	4	5
							5	< LLD	(0 / 1 )				
PRECIPITATION (PCI/L)	GELI GAMMA	BALA-140	8	1.67E+01	< LLD	(0 / 5 )	< LLD	(0 / 3 )	1	2	3	4	5
							5	< LLD	(0 / 1 )				
PRECIPITATION (PCI/L)	GELI GAMMA	BE-7	8	9.92E+01	< LLD	(0 / 5 )	< LLD	(0 / 3 )	1	2	3	4	5
							5	< LLD	(0 / 1 )				
PRECIPITATION (PCI/L)	GELI GAMMA	ZR-95	8	1.85E+01	< LLD	(0 / 5 )	< LLD	(0 / 3 )	1	2	3	4	5
							5	< LLD	(0 / 1 )				
PRECIPITATION (PCI/L)	GELI GAMMA	NB-95	8	1.17E+01	< LLD	(0 / 5 )	< LLD	(0 / 3 )	1	2	3	4	5
							5	< LLD	(0 / 1 )				
PRECIPITATION (PCI/L)	GELI GAMMA	SB-125	8	2.91E+01	< LLD	(0 / 5 )	< LLD	(0 / 3 )	1	2	3	4	5
							5	< LLD	(0 / 1 )				
PRECIPITATION (PCI/L)	GELI GAMMA	CE-141	8	2.41E+01	< LLD	(0 / 5 )	< LLD	(0 / 3 )	1	2	3	4	5
							5	< LLD	(0 / 1 )				

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					STATION	STATION-MEAN(N/TOTAL) RANGE	STATION	STATION-MEAN(N/TOTAL) RANGE	1	2	3	4	5
PRECIPITATION (PCI/L)	GELI GAMMA	RU-103	8	1.25E+01	< LLD	(0 / 5 )	< LLD	(0 / 3 )	1	2	3	4	5
						5	< LLD (0 / 1 )						
PRECIPITATION (PCI/L)	GELI GAMMA	CR-51	8	1.22E+02	< LLD	(0 / 5 )	< LLD	(0 / 3 )	1	2	3	4	5
						5	< LLD (0 / 1 )						
PRECIPITATION (PCI/L)	GELI GAMMA	RA-226	8	1.82E+01	< LLD	(0 / 5 )	< LLD	(0 / 3 )	1	2	3	4	5
						5	< LLD (0 / 1 )						
PRECIPITATION (PCI/L)	GELI GAMMA	I-131	8	3.81E+01	< LLD	(0 / 5 )	< LLD	(0 / 3 )	1	2	3	4	5
						5	< LLD (0 / 1 )						
PRECIPITATION (PCI/L)	GELI GAMMA	NP-239	6	1.67E+05	< LLD	(0 / 5 )	< LLD	(0 / 1 )	1	2	3	4	5
						5	< LLD (0 / 1 )						
PRECIPITATION (PCI/L)	GELI GAMMA	RU-106	8	9.02E+01	< LLD	(0 / 5 )	< LLD	(0 / 3 )	1	2	3	4	5
						5	< LLD (0 / 1 )						
PRECIPITATION (PCI/L)	GELI GAMMA	CO-57	8	1.09E+01	< LLD	(0 / 5 )	< LLD	(0 / 3 )	1	2	3	4	5
						5	< LLD (0 / 1 )						



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						STATION	STATION-MEAN(N/TOTAL) RANGE					
PRECIPITATION (PCI/L)	GELI GAMMA	CS-137	8	9.37E+00	< LLD (0 / 5 )		< LLD (0 / 3 )	1	2	3	4	5
						5	< LLD (0 / 1 )					
PRECIPITATION (PCI/L)	TRITIUM		48	1.51E+02	2.65E+02 (2 / 30 ) ( 1.88E+02 - 3.42E+02)		4.81E+02(1 / 18 ) ( 4.81E+02 - 4.81E+02)	1	2	3	4	5
						2	3.42E+02(1 / 6 ) ( 3.42E+02 - 3.42E+02)					
PRECIPITATION (PCI/L)	NAI GAMMA	CE-144	40	7.91E+01	< LLD (0 / 25 )		< LLD (0 / 15 )	1	2	3	4	5
						5	< LLD (0 / 5 )					
PRECIPITATION (PCI/L)	NAI GAMMA	AG-110M	40	6.77E+00	< LLD (0 / 25 )		< LLD (0 / 15 )	1	2	3	4	5
						5	< LLD (0 / 5 )					
PRECIPITATION (PCI/L)	NAI GAMMA	TE-129M	40	1.41E+02	< LLD (0 / 25 )		< LLD (0 / 15 )	1	2	3	4	5
						5	< LLD (0 / 5 )					
PRECIPITATION (PCI/L)	NAI GAMMA	MO-99	40	2.62E+03	< LLD (0 / 25 )		< LLD (0 / 15 )	1	2	3	4	5
						5	< LLD (0 / 5 )					
PRECIPITATION (PCI/L)	NAI GAMMA	ZRN8-95	40	7.11E+00	< LLD (0 / 25 )		< LLD (0 / 15 )	1	2	3	4	5
						5	< LLD (0 / 5 )					

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					STATION	STATION-MEAN(N/TOTAL) RANGE	STATION-MEAN(N/TOTAL) RANGE	1	2	3	4	5	
PRECIPITATION (PCI/L)	NAI GAMMA	CS-134	40	6.49E+00	< LLD	(0 /25 )	< LLD	(0 /15 )	1	2	3	4	5
									5	< LLD (0 /5 )			
PRECIPITATION (PCI/L)	NAI GAMMA	CO-58	40	7.29E+00	< LLD	(0 /25 )	< LLD	(0 /15 )	1	2	3	4	5
									5	< LLD (0 /5 )			
PRECIPITATION (PCI/L)	NAI GAMMA	MN-54	40	6.53E+00	< LLD	(0 /25 )	< LLD	(0 /15 )	1	2	3	4	5
									5	< LLD (0 /5 )			
PRECIPITATION (PCI/L)	NAI GAMMA	TH-232	40	2.51E+01	< LLD	(0 /25 )	< LLD	(0 /15 )	1	2	3	4	5
									5	< LLD (0 /5 )			
PRECIPITATION (PCI/L)	NAI GAMMA	FE-59	40	1.48E+01	< LLD	(0 /25 )	< LLD	(0 /15 )	1	2	3	4	5
									5	< LLD (0 /5 )			
PRECIPITATION (PCI/L)	NAI GAMMA	CS-136	40	1.97E+01	< LLD	(0 /25 )	< LLD	(0 /15 )	1	2	3	4	5
									5	< LLD (0 /5 )			
PRECIPITATION (PCI/L)	NAI GAMMA	TE-132	40	2.58E+02	< LLD	(0 /25 )	< LLD	(0 /15 )	1	2	3	4	5
									5	< LLD (0 /5 )			

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					STATION	STATION-MEAN(N/TOTAL) RANGE	STATION-MEAN(N/TOTAL) RANGE	1	2	3	4	5	
PRECIPITATION (PCI/L)	NAI GAMMA	ZN-65	40	1.39E+01	< LLD	(0 /25 )	< LLD	(0 /15 )	1	2	3	4	5
						5	< LLD (0 /5 )						
PRECIPITATION (PCI/L)	NAI GAMMA	CO-60	40	6.86E+00	< LLD	(0 /25 )	< LLD	(0 /15 )	1	2	3	4	5
						5	< LLD (0 /5 )						
PRECIPITATION (PCI/L)	NAI GAMMA	K-40	40	7.80E+01	< LLD	(0 /25 )	< LLD	(0 /15 )	1	2	3	4	5
						5	< LLD (0 /5 )						
PRECIPITATION (PCI/L)	NAI GAMMA	BALA-140	40	1.55E+01	< LLD	(0 /25 )	< LLD	(0 /15 )	1	2	3	4	5
						5	< LLD (0 /5 )						
PRECIPITATION (PCI/L)	NAI GAMMA	BE-7	40	7.70E+01	< LLD	(0 /25 )	< LLD	(0 /15 )	1	2	3	4	5
						5	< LLD (0 /5 )						
PRECIPITATION (PCI/L)	NAI GAMMA	CR-51	40	9.23E+01	< LLD	(0 /25 )	< LLD	(0 /15 )	1	2	3	4	5
						5	< LLD (0 /5 )						
PRECIPITATION (PCI/L)	NAI GAMMA	RA-226	40	1.25E+01	< LLD	(0 /25 )	< LLD	(0 /15 )	1	2	3	4	5
						5	< LLD (0 /5 )						

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					STATION	STATION-MEAN(N/TOTAL) RANGE	STATION	STATION-MEAN(N/TOTAL) RANGE	1	2	3	4	5
PRECIPITATION (PCI/L)	NAI GAMMA	I-131	40	2.89E+01	< LLD	(0 /25 )	< LLD	(0 /15 )	1	2	3	4	5
						5	< LLD (0 /5 )						
PRECIPITATION (PCI/L)	NAI GAMMA	NA-22	40	6.76E+00	< LLD	(0 /25 )	< LLD	(0 /15 )	1	2	3	4	5
						5	< LLD (0 /5 )						
PRECIPITATION (PCI/L)	NAI GAMMA	RU-106	40	6.57E+01	< LLD	(0 /25 )	< LLD	(0 /15 )	1	2	3	4	5
						5	< LLD (0 /5 )						
PRECIPITATION (PCI/L)	NAI GAMMA	I-133	40	7.68E+00	< LLD	(0 /25 )	< LLD	(0 /15 )	1	2	3	4	5
						5	< LLD (0 /5 )						
PRECIPITATION (PCI/L)	NAI GAMMA	CS-137	40	7.22E+00	< LLD	(0 /25 )	< LLD	(0 /15 )	1	2	3	4	5
						5	< LLD (0 /5 )						
PRECIPITATION (PCI/L)	STRONTIUM-89		48	1.10E+00	< LLD	6.40E-01 (1 /30 ) ( 6.40E-01 - 6.40E-01)	< LLD	(0 /18 )	1	2	3	4	5
						2	6.40E-01 (1 /6 ) ( 6.40E-01 - 6.40E-01)						
PRECIPITATION (PCI/L)	STRONTIUM-90		48	9.64E-01	< LLD	(0 /30 )	< LLD	(0 /18 )	1	2	3	4	5
						5	< LLD (0 /6 )						

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					STATION	STATION-MEAN(N/TOTAL) RANGE	STATION-MEAN(N/TOTAL) RANGE	1	2	3	4	5	
AIR IODINE (PCI/M3)	IODINE-131	102	2	2.71E-02	< LLD	(0 / 65)	< LLD	(0 / 37)	1	2	3	4	5
									5	< LLD (0 / 13)			
CABBAGE (PCI/KG(WET))	NAI GAMMA	CE-144	2	4.85E+01	< LLD	(0 / 1)	< LLD	(0 / 1)	1				
									1	< LLD (0 / 1)			
CABBAGE (PCI/KG(WET))	NAI GAMMA	AG-110M	2	1.20E+01	< LLD	(0 / 1)	< LLD	(0 / 1)	1				
									1	< LLD (0 / 1)			
CABBAGE (PCI/KG(WET))	NAI GAMMA	TE-129M	2	2.20E+02	< LLD	(0 / 1)	< LLD	(0 / 1)	1				
									1	< LLD (0 / 1)			
CABBAGE (PCI/KG(WET))	NAI GAMMA	MO-99	2	5.35E+03	< LLD	(0 / 1)	< LLD	(0 / 1)	1				
									1	< LLD (0 / 1)			
CABBAGE (PCI/KG(WET))	NAI GAMMA	ZRNH-95	2	1.40E+01	< LLD	(0 / 1)	< LLD	(0 / 1)	1				
									1	< LLD (0 / 1)			
CABBAGE (PCI/KG(WET))	NAI GAMMA	CS-134	2	1.25E+01	< LLD	(0 / 1)	< LLD	(0 / 1)	1				
									1	< LLD (0 / 1)			

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					STATION	STATION-MEAN(N/TOTAL) RANGE	STATION	STATION-MEAN(N/TOTAL) RANGE	
CABBAGE (PCI/KG(WET))	NAI GAMMA	CO-58	2	1.35E+01	< LLD	(0 /1 )	< LLD	(0 /1 )	1
CABBAGE (PCI/KG(WET))	NAI GAMMA	MN-54	2	1.30E+01	< LLD	(0 /1 )	< LLD	(0 /1 )	1
CABBAGE (PCI/KG(WET))	NAI GAMMA	TH-232	2	4.70E+01	< LLD	(0 /1 )	< LLD	(0 /1 )	1
CABBAGE (PCI/KG(WET))	NAI GAMMA	FE-59	2	3.00E+01	< LLD	(0 /1 )	< LLD	(0 /1 )	1
CABBAGE (PCI/KG(WET))	NAI GAMMA	CS-136	2	3.65E+01	< LLD	(0 /1 )	< LLD	(0 /1 )	1
CABBAGE (PCI/KG(WET))	NAI GAMMA	TE-132	2	2.55E+02	< LLD	(0 /1 )	< LLD	(0 /1 )	1
CABBAGE (PCI/KG(WET))	NAI GAMMA	ZN-65	2	3.25E+01	< LLD	(0 /1 )	< LLD	(0 /1 )	1

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						STATION	STATION-MEAN(N/TOTAL) RANGE		
CABBAGE (PCI/KG(WET))	NAI GAMMA	CO-60	2	1.25E+01	< LLD	( 0 / 1 )	< LLD	( 0 / 1 )	1
CABBAGE (PCI/KG(WET))	NAI GAMMA	K-40	2	3.10E+02	1.80E+03 ( 1 / 1 ) ( 1.80E+03 - 1.80E+03 )	2.50E+03 ( 1 / 1 ) ( 2.50E+03 - 2.50E+03 )	1.80E+03 ( 1 / 1 ) ( 1.80E+03 - 1.80E+03 )	1	
									1
CABBAGE (PCI/KG(WET))	NAI GAMMA	BALA-140	2	2.85E+01	< LLD	( 0 / 1 )	< LLD	( 0 / 1 )	1
CABBAGE (PCI/KG(WET))	NAI GAMMA	BE-7	2	1.15E+02	< LLD	( 0 / 1 )	< LLD	( 0 / 1 )	1
CABBAGE (PCI/KG(WET))	NAI GAMMA	CR-51	2	1.15E+02	< LLD	( 0 / 1 )	< LLD	( 0 / 1 )	1
CABBAGE (PCI/KG(WET))	NAI GAMMA	RA-226	2	2.35E+01	< LLD	( 0 / 1 )	< LLD	( 0 / 1 )	1
CABBAGE (PCI/KG(WET))	NAI GAMMA	I-131	2	4.10E+01	< LLD	( 0 / 1 )	< LLD	( 0 / 1 )	1

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					STATION	STATION-MEAN(N/TOTAL) RANGE	STATION	STATION-MEAN(N/TOTAL) RANGE	
CABBAGE (PCI/KG(WET))	NAI GAMMA	NA-22	2	1.35E+01	< LLD	(0 /1 )	< LLD	(0 /1 )	1
						1	< LLD (0 /1 )		
CABBAGE (PCI/KG(WET))	NAI GAMMA	RU-106	2	1.13E+02	< LLD	(0 /1 )	< LLD	(0 /1 )	1
						1	< LLD (0 /1 )		
CABBAGE (PCI/KG(WET))	NAI GAMMA	I-133	2	1.25E+01	< LLD	(0 /1 )	< LLD	(0 /1 )	1
						1	< LLD (0 /1 )		
CABBAGE (PCI/KG(WET))	NAI GAMMA	CS-137	2	1.25E+01	< LLD	(0 /1 )	< LLD	(0 /1 )	1
						1	< LLD (0 /1 )		
CORN (PCI/KG(WET))	NAI GAMMA	CE-144	5	9.62E+01	< LLD	(0 /4 )	< LLD	(0 /1 )	1 2 3 4
						4	< LLD (0 /1 )		
CORN (PCI/KG(WET))	NAI GAMMA	AG-110M	5	1.92E+01	< LLD	(0 /4 )	< LLD	(0 /1 )	1 2 3 4
						4	< LLD (0 /1 )		
CORN (PCI/KG(WET))	NAI GAMMA	TE-129M	5	4.20E+02	< LLD	(0 /4 )	< LLD	(0 /1 )	1 2 3 4
						4	< LLD (0 /1 )		



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					STATION	STATION-MEAN(N/TOTAL) RANGE	STATION	STATION-MEAN(N/TOTAL) RANGE	
CORN (PCI/KG(WET))	NAI GAMMA	MO-99	5	6.12E+03	< LLD	(0 /4 )	< LLD	(0 /1 )	1 2 3 4
CORN (PCI/KG(WET))	NAI GAMMA	ZRNb-95	5	2.54E+01	< LLD	(0 /4 )	< LLD	(0 /1 )	1 2 3 4
CORN (PCI/KG(WET))	NAI GAMMA	CS-134	5	1.90E+01	< LLD	(0 /4 )	< LLD	(0 /1 )	1 2 3 4
CORN (PCI/KG(WET))	NAI GAMMA	CO-58	5	2.16E+01	< LLD	(0 /4 )	< LLD	(0 /1 )	1 2 3 4
CORN (PCI/KG(WET))	NAI GAMMA	MN-54	5	2.24E+01	< LLD	(0 /4 )	< LLD	(0 /1 )	1 2 3 4
CORN (PCI/KG(WET))	NAI GAMMA	TH-232	5	8.38E+01	< LLD	(0 /4 )	< LLD	(0 /1 )	1 2 3 4
CORN (PCI/KG(WET))	NAI GAMMA	FE-59	5	5.90E+01	< LLD	(0 /4 )	< LLD	(0 /1 )	1 2 3 4

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						STATION		STATION-MEAN(N/TOTAL) RANGE				
CORN (PCI/KG(WET))	NAI GAMMA	CS-136	5	6.88E+01	< LLD	(0 / 4 )	< LLD	(0 / 1 )	1	2	3	4
						4	< LLD (0 / 1 )					
CORN (PCI/KG(WET))	NAI GAMMA	TE-132	5	3.78E+02	< LLD	(0 / 4 )	< LLD	(0 / 1 )	1	2	3	4
						4	< LLD (0 / 1 )					
CORN (PCI/KG(WET))	NAI GAMMA	ZN-65	5	5.86E+01	< LLD	(0 / 4 )	< LLD	(0 / 1 )	1	2	3	4
						4	< LLD (0 / 1 )					
CORN (PCI/KG(WET))	NAI GAMMA	CO-60	5	2.50E+01	< LLD	(0 / 4 )	< LLD	(0 / 1 )	1	2	3	4
						4	< LLD (0 / 1 )					
CORN (PCI/KG(WET))	NAI GAMMA	K-40	5	4.70E+02	< LLD	2.90E+03 (4 / 4 ) ( 2.40E+03 - 3.40E+03)	3.30E+03(1 / 1 ) ( 3.30E+03 - 3.30E+03)	1	2	3	4	
						4	3.40E+03(1 / 1 ) ( 3.40E+03 - 3.40E+03)					
CORN (PCI/KG(WET))	NAI GAMMA	BALA-140	5	6.28E+01	< LLD	(0 / 4 )	< LLD	(0 / 1 )	1	2	3	4
						4	< LLD (0 / 1 )					
CORN (PCI/KG(WET))	NAI GAMMA	BE-7	5	1.88E+02	< LLD	(0 / 4 )	< LLD	(0 / 1 )	1	2	3	4
						4	< LLD (0 / 1 )					

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					STATION	STATION-MEAN(N/TOTAL) RANGE	STATION-MEAN(N/TOTAL) RANGE		
CORN (PCI/KG(WET))	NAI GAMMA	CR-51	5	2.10E+02	< LLD	(0 /4 )	< LLD	(0 /1 )	1 2 3 4
CORN (PCI/KG(WET))	NAI GAMMA	RA-226	5	3.74E+01	< LLD	(0 /4 )	< LLD	(0 /1 )	1 2 3 4
CORN (PCI/KG(WET))	NAI GAMMA	I-131	5	5.62E+01	< LLD	(0 /4 )	< LLD	(0 /1 )	1 2 3 4
CORN (PCI/KG(WET))	NAI GAMMA	NA-22	5	2.50E+01	< LLD	(0 /4 )	< LLD	(0 /1 )	1 2 3 4
CORN (PCI/KG(WET))	NAI GAMMA	RU-106	5	1.92E+02	< LLD	(0 /4 )	< LLD	(0 /1 )	1 2 3 4
CORN (PCI/KG(WET))	NAI GAMMA	I-133	5	2.50E+01	< LLD	(0 /4 )	< LLD	(0 /1 )	1 2 3 4
CORN (PCI/KG(WET))	NAI GAMMA	CS-137	5	2.20E+01	< LLD	(0 /4 )	< LLD	(0 /1 )	1 2 3 4

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					STATION	STATION-MEAN(N/TOTAL) RANGE	STATION	STATION-MEAN(N/TOTAL) RANGE	
CUCUMBERS (PCI/KG(WET))	NAI GAMMA	CE-144	1	1.60E+01	< LLD	(0 / 1 )	( . . - . . )	5	< LLD (0 / 1 )
CUCUMBERS (PCI/KG(WET))	NAI GAMMA	AG-110M	1	6.50E+00	< LLD	(0 / 1 )	( . . - . . )	5	< LLD (0 / 1 )
CUCUMBERS (PCI/KG(WET))	NAI GAMMA	TE-129M	1	1.30E+02	< LLD	(0 / 1 )	( . . - . . )	5	< LLD (0 / 1 )
CUCUMBERS (PCI/KG(WET))	NAI GAMMA	MO-99	1	2.40E+03	< LLD	(0 / 1 )	( . . - . . )	5	< LLD (0 / 1 )
CUCUMBERS (PCI/KG(WET))	NAI GAMMA	ZRN8-95	1	7.30E+00	< LLD	(0 / 1 )	( . . - . . )	5	< LLD (0 / 1 )
CUCUMBERS (PCI/KG(WET))	NAI GAMMA	CS-134	1	6.30E+00	< LLD	(0 / 1 )	( . . - . . )	5	< LLD (0 / 1 )
CUCUMBERS (PCI/KG(WET))	NAI GAMMA	CO-58	1	7.20E+00	< LLD	(0 / 1 )	( . . - . . )	5	< LLD (0 / 1 )

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						STATION		STATION-MEAN(N/TOTAL) RANGE	
CUCUMBERS (PCI/KG(WET))	NAI GAMMA	MN-54	1	6.40E+00	< LLD	( 0 / 1 )	( . . - . / . )	5	
CUCUMBERS (PCI/KG(WET))	NAI GAMMA	TH-232	1	3.10E+01	< LLD	( 0 / 1 )	( . . - . / . )	5	
CUCUMBERS (PCI/KG(WET))	NAI GAMMA	FE-59	1	1.80E+01	< LLD	( 0 / 1 )	( . . - . / . )	5	
CUCUMBERS (PCI/KG(WET))	NAI GAMMA	CS-136	1	2.20E+01	< LLD	( 0 / 1 )	( . . - . / . )	5	
CUCUMBERS (PCI/KG(WET))	NAI GAMMA	TE-132	1	9.00E+01	< LLD	( 0 / 1 )	( . . - . / . )	5	
CUCUMBERS (PCI/KG(WET))	NAI GAMMA	ZN-65	1	1.60E+01	< LLD	( 0 / 1 )	( . . - . / . )	5	
CUCUMBERS (PCI/KG(WET))	NAI GAMMA	CO-60	1	6.20E+00	< LLD	( 0 / 1 )	( . . - . / . )	5	

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					RANGE	RANGE	
					STATION	STATION-MEAN(N/TOTAL)	
						RANGE	
CUCUMBERS (PCI/KG(WET))	NAI GAMMA	K-40	1	1.60E+02	1.40E+03 (1 /1 )	( . / . )	5
					( 1.40E+03 - 1.40E+03)	( . - . )	
						1.40E+03(1 /1 )	5
						( 1.40E+03 - 1.40E+03)	
CUCUMBERS (PCI/KG(WET))	NAI GAMMA	BALA-140	1	1.50E+01	< LLD (0 /1 )	( . / . )	5
						( . - . )	
						< LLD (0 /1 )	5
CUCUMBERS (PCI/KG(WET))	NAI GAMMA	BE-7	1	5.70E+01	< LLD (0 /1 )	( . / . )	5
						( . - . )	
						< LLD (0 /1 )	5
CUCUMBERS (PCI/KG(WET))	NAI GAMMA	CR-51	1	4.60E+01	< LLD (0 /1 )	( . / . )	5
						( . - . )	
						< LLD (0 /1 )	5
CUCUMBERS (PCI/KG(WET))	NAI GAMMA	RA-226	1	1.10E+01	< LLD (0 /1 )	( . / . )	5
						( . - . )	
						< LLD (0 /1 )	5
CUCUMBERS (PCI/KG(WET))	NAI GAMMA	I-131	1	1.80E+01	< LLD (0 /1 )	( . / . )	5
						( . - . )	
						< LLD (0 /1 )	5
CUCUMBERS (PCI/KG(WET))	NAI GAMMA	NA-22	1	6.30E+00	< LLD (0 /1 )	( . / . )	5
						( . - . )	
						< LLD (0 /1 )	5



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				STATION	STATION-MEAN(N/TOTAL) RANGE	STATION-MEAN(N/TOTAL) RANGE						
SURFACE WATER (MG/L )	CALCIUM BY AA	48	2.00E-01	1.86E+02 (42 /42 ) ( 1.00E-01 - 3.50E+02)		2.91E+02(6 /6 ) ( 1.20E+02 - 3.60E+02)		23	24	25	26	27
				24	2.69E+02(6 /6 ) ( 1.15E+02 - 3.50E+02)	32	33					
SURFACE WATER (PCI/L )	TRITIUM	48	1.62E+02	< LLD (0 /42 )		< LLD (0 /6 )		23	24	25	26	27
				33	< LLD (0 /6 )	32	33					
SURFACE WATER (PCI/L )	IODINE-131	24	1.38E-01	< LLD (0 /21 )		< LLD (0 /3 )		23	24	25	26	27
				33	< LLD (0 /3 )	32	33					
SURFACE WATER (PCI/L )	NAI GAMMA	CE-144	48	5.78E+01 < LLD (0 /42 )		< LLD (0 /6 )		23	24	25	26	27
				33	< LLD (0 /6 )	32	33					
SURFACE WATER (PCI/L )	NAI GAMMA	AG-110M	48	5.71E+00 < LLD (0 /42 )		< LLD (0 /6 )		23	24	25	26	27
				33	< LLD (0 /6 )	32	33					
SURFACE WATER (PCI/L )	NAI GAMMA	TE-129M	48	1.13E+02 < LLD (0 /42 )		< LLD (0 /6 )		23	24	25	26	27
				33	< LLD (0 /6 )	32	33					
SURFACE WATER (PCI/L )	NAI GAMMA	MO-99	48	1.44E+03 < LLD (0 /42 )		< LLD (0 /6 )		23	24	25	26	27
				33	< LLD (0 /6 )	32	33					



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				STATION	STATION-MEAN(N/TOTAL) RANGE	STATION-MEAN(N/TOTAL) RANGE							
SURFACE WATER (PCI/L )	NAI GAMMA	ZRNB-95 48	5.99E+00	< LLD	(0 /42 )	< LLD	(0 /6 )	23	24	25	26	27	
								32	33				
								33	< LLD (0 /6 )				
SURFACE WATER (PCI/L )	NAI GAMMA	CS-134 48	5.52E+00	< LLD	(0 /42 )	< LLD	(0 /6 )	23	24	25	26	27	
								32	33				
								33	< LLD (0 /6 )				
SURFACE WATER (PCI/L )	NAI GAMMA	CO-58 48	5.91E+00	< LLD	(0 /42 )	< LLD	(0 /6 )	23	24	25	26	27	
								32	33				
								33	< LLD (0 /6 )				
SURFACE WATER (PCI/L )	NAI GAMMA	MN-54 48	5.50E+00	< LLD	(0 /42 )	< LLD	(0 /6 )	23	24	25	26	27	
								32	33				
								33	< LLD (0 /6 )				
SURFACE WATER (PCI/L )	NAI GAMMA	TH-232 48	2.04E+01	< LLD	(0 /42 )	< LLD	(0 /6 )	23	24	25	26	27	
								32	33				
								33	< LLD (0 /6 )				
SURFACE WATER (PCI/L )	NAI GAMMA	FE-59 48	1.24E+01	< LLD	(0 /42 )	< LLD	(0 /6 )	23	24	25	26	27	
								32	33				
								33	< LLD (0 /6 )				
SURFACE WATER (PCI/L )	NAI GAMMA	CS-136 48	1.50E+01	< LLD	(0 /42 )	< LLD	(0 /6 )	23	24	25	26	27	
								32	33				
								33	< LLD (0 /6 )				

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					STATION	STATION-MEAN(N/TOTAL) RANGE	STATION	STATION-MEAN(N/TOTAL) RANGE	23	24	25	26	27
SURFACE WATER (PCI/L)	NAI GAMMA	TE-132	48	1.87E+02	< LLD	(0 /42 )	< LLD	(0 /6 )	23	24	25	26	27
									32	33			
SURFACE WATER (PCI/L)	NAI GAMMA	ZN-65	48	1.21E+01	< LLD	(0 /42 )	< LLD	(0 /6 )	23	24	25	26	27
									32	33			
SURFACE WATER (PCI/L)	NAI GAMMA	CO-60	48	5.64E+00	< LLD	(0 /42 )	< LLD	(0 /6 )	23	24	25	26	27
									32	33			
SURFACE WATER (PCI/L)	NAI GAMMA	K-40	48	8.41E+01	3.16E+02 (31 /42 ) ( 6.30E+01 - 2.60E+03)	3.10E+02(6 /6 ) ( 2.30E+02 - 3.90E+02)	23	24	25	26	27		
												32	33
SURFACE WATER (PCI/L)	NAI GAMMA	BALA-140	48	1.16E+01	< LLD	(0 /42 )	< LLD	(0 /6 )	23	24	25	26	27
									32	33			
SURFACE WATER (PCI/L)	NAI GAMMA	BE-7	48	5.92E+01	< LLD	(0 /42 )	< LLD	(0 /6 )	23	24	25	26	27
									32	33			
SURFACE WATER (PCI/L)	NAI GAMMA	CR-51	48	7.50E+01	< LLD	(0 /42 )	< LLD	(0 /6 )	23	24	25	26	27
									32	33			
									33	< LLD (0 /6 )			

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					STATION	STATION-MEAN(N/TOTAL) RANGE	STATION	STATION-MEAN(N/TOTAL) RANGE	23	24	25	26	27
SURFACE WATER (PCI/L)	NAI GAMMA	RA-226	48	1.04E+01	< LLD	(0 /42 )	< LLD	(0 /6 )	23	24	25	26	27
									32	33			
SURFACE WATER (PCI/L)	NAI GAMMA	I-131	48	2.09E+01	< LLD	(0 /42 )	< LLD	(0 /6 )	23	24	25	26	27
									32	33			
SURFACE WATER (PCI/L)	NAI GAMMA	NA-22	48	5.74E+00	< LLD	(0 /42 )	< LLD	(0 /6 )	23	24	25	26	27
									32	33			
SURFACE WATER (PCI/L)	NAI GAMMA	RU-106	48	5.60E+01	< LLD	(0 /42 )	< LLD	(0 /6 )	23	24	25	26	27
									32	33			
SURFACE WATER (PCI/L)	NAI GAMMA	I-133	48	6.64E+00	< LLD	(0 /42 )	< LLD	(0 /6 )	23	24	25	26	27
									32	33			
SURFACE WATER (PCI/L)	NAI GAMMA	CS-137	48	5.89E+00	< LLD	(0 /42 )	< LLD	(0 /6 )	23	24	25	26	27
									32	33			
SURFACE WATER (PCI/L)	RADIUM-226		48	7.99E-02	3.07E-01	(29 /42 )	1.28E-01	(4 /6 )	23	24	25	26	27
									( 4.53E-02 - 7.25E-01)	( 4.63E-02 - 1.90E-01)	32	33	
									26	5.20E-01	(5 /6 )		
										( 3.75E-01 - 6.81E-01)			

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					STATION-MEAN(N/TOTAL) RANGE	STATION	23	24	25	26	27	
SURFACE WATER (PCI/L )	RADIUM-228	48	1.13E+00	5.39E-01 (1 /42 ) ( 5.39E-01 - 5.39E-01)	< LLD (0 /6 )	23 24 25 26 27	32 33					
					27	5.39E-01(1 /6 ) ( 5.39E-01 - 5.39E-01)						
SURFACE WATER (PCI/L )	STRONTIUM-89	48	5.90E-01	3.89E-01 (3 /42 ) ( 3.64E-01 - 4.18E-01)	< LLD (0 /6 )	23 24 25 26 27	32 33					
					25	4.18E-01(1 /6 ) ( 4.18E-01 - 4.18E-01)						
SURFACE WATER (PCI/L )	STRONTIUM-90	48	5.55E-01	< LLD (0 /42 )	< LLD (0 /6 )	23 24 25 26 27	32 33					
					33	< LLD (0 /6 )						
SURFACE WATER (PCI/L )	TOTAL URANIUM	48	1.50E-01	1.10E+00 (41 /42 ) ( 2.60E-01 - 1.98E+00)	1.47E+00(6 /6 ) ( 1.13E+00 - 1.83E+00)	23 24 25 26 27	32 33					
					25	1.52E+00(5 /6 ) ( 1.03E+00 - 1.89E+00)						
GREEN BEANS (PCI/KG(WET))	NAI GAMMA	CE-144	2	6.50E+01 ( . . . )	< LLD (0 /2 )							
						( . . . )						
GREEN BEANS (PCI/KG(WET))	NAI GAMMA	AG-110M	2	1.55E+01 ( . . . )	< LLD (0 /2 )							
						( . . . )						

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					STATION	STATION-MEAN(N/TOTAL) RANGE	STATION	STATION-MEAN(N/TOTAL) RANGE	
GREEN BEANS (PCI/KG(WET))	NAI GAMMA	TE-129M	2	3.35E+02	( . . ) - . . )	( . . ) - . . )	< LLD (0 /2 )	( . . ) - . . )	
GREEN BEANS (PCI/KG(WET))	NAI GAMMA	MO-99	2	8.65E+03	( . . ) - . . )	( . . ) - . . )	< LLD (0 /2 )	( . . ) - . . )	
GREEN BEANS (PCI/KG(WET))	NAI GAMMA	ZRNB-95	2	1.80E+01	( . . ) - . . )	( . . ) - . . )	< LLD (0 /2 )	( . . ) - . . )	
GREEN BEANS (PCI/KG(WET))	NAI GAMMA	CS-134	2	1.50E+01	( . . ) - . . )	( . . ) - . . )	< LLD (0 /2 )	( . . ) - . . )	
GREEN BEANS (PCI/KG(WET))	NAI GAMMA	CO-58	2	1.75E+01	( . . ) - . . )	( . . ) - . . )	< LLD (0 /2 )	( . . ) - . . )	
GREEN BEANS (PCI/KG(WET))	NAI GAMMA	MN-54	2	1.60E+01	( . . ) - . . )	( . . ) - . . )	< LLD (0 /2 )	( . . ) - . . )	

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					RANGE	RANGE	
					STATION	STATION-MEAN(N/TOTAL)	
						RANGE	
GREEN BEANS (PCI/KG(WET))	NAI GAMMA	TH-232	2	7.00E+01	( . . . )	< LLD (0 / 2)	
					( . . . )	( . . . )	
GREEN BEANS (PCI/KG(WET))	NAI GAMMA	FE-59	2	4.05E+01	( . . . )	< LLD (0 / 2)	
					( . . . )	( . . . )	
GREEN BEANS (PCI/KG(WET))	NAI GAMMA	CS-136	2	5.95E+01	( . . . )	< LLD (0 / 2)	
					( . . . )	( . . . )	
GREEN BEANS (PCI/KG(WET))	NAI GAMMA	TE-132	2	4.60E+02	( . . . )	< LLD (0 / 2)	
					( . . . )	( . . . )	
GREEN BEANS (PCI/KG(WET))	NAI GAMMA	ZN-65	2	4.10E+01	( . . . )	< LLD (0 / 2)	
					( . . . )	( . . . )	
GREEN BEANS (PCI/KG(WET))	NAI GAMMA	CO-60	2	1.60E+01	( . . . )	< LLD (0 / 2)	
					( . . . )	( . . . )	

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SAMPLE TYPE	ANALYSIS	ISOTOPE NUMBER	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE		BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
					STATION	STATION-MEAN(N/TOTAL) RANGE		
GREEN BEANS (PCI/KG(WET))	NAI GAMMA	K-40	2	3.10E+02	( . . ) ( . . )	( . / . ) ( . / . )	1.80E+03(2 / 2 ) ( 1.70E+03 - 1.90E+03 ) ( . . ) ( . / . )	
GREEN BEANS (PCI/KG(WET))	NAI GAMMA	BALA-140	2	4.00E+01	( . . ) ( . . )	( . / . ) ( . / . )	< LLD (0 / 2 ) ( . . ) ( . / . )	
GREEN BEANS (PCI/KG(WET))	NAI GAMMA	BE-7	2	1.70E+02	( . . ) ( . . )	( . / . ) ( . / . )	< LLD (0 / 2 ) ( . . ) ( . / . )	
GREEN BEANS (PCI/KG(WET))	NAI GAMMA	CR-51	2	1.70E+02	( . . ) ( . . )	( . / . ) ( . / . )	< LLD (0 / 2 ) ( . . ) ( . / . )	
GREEN BEANS (PCI/KG(WET))	NAI GAMMA	RA-226	2	3.10E+01	( . . ) ( . . )	( . / . ) ( . / . )	< LLD (0 / 2 ) ( . . ) ( . / . )	
GREEN BEANS (PCI/KG(WET))	NAI GAMMA	I-131	2	6.30E+01	( . . ) ( . . )	( . / . ) ( . / . )	< LLD (0 / 2 ) ( . . ) ( . / . )	

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					STATION	STATION-MEAN(N/TOTAL) RANGE	STATION	STATION-MEAN(N/TOTAL) RANGE	
GREEN BEANS (PCI/KG(WET))	NAI GAMMA	NA-22	2	1.60E+01	.	(. / . )	< LLD (0 / 2)		
GREEN BEANS (PCI/KG(WET))	NAI GAMMA	RU-106	2	1.50E+02	.	(. / . )	< LLD (0 / 2)		
GREEN BEANS (PCI/KG(WET))	NAI GAMMA	I-133	2	1.60E+01	.	(. / . )	< LLD (0 / 2)		
GREEN BEANS (PCI/KG(WET))	NAI GAMMA	CS-137	2	1.60E+01	.	(. / . )	< LLD (0 / 2)		
TOMATOES (PCI/KG(WET))	NAI GAMMA	CE-144	6	2.42E+01	< LLD	(0 / 4)	< LLD (0 / 2)	2 3 4 5	
TOMATOES (PCI/KG(WET))	NAI GAMMA	AG-110M	6	8.97E+00	< LLD	(0 / 4)	< LLD (0 / 2)	2 3 4 5	



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				STATION	STATION-MEAN(N/TOTAL) RANGE	STATION-MEAN(N/TOTAL) RANGE			
TOMATOES (PCI/KG(WET))	NAI GAMMA	TE-129M	6	1.68E+02	< LLD	(0 /4 )	< LLD	(0 /2 )	2 3 4 5
									5
TOMATOES (PCI/KG(WET))	NAI GAMMA	MO-99	6	3.10E+03	< LLD	(0 /4 )	< LLD	(0 /2 )	2 3 4 5
									5
TOMATOES (PCI/KG(WET))	NAI GAMMA	ZRNb-95	6	1.04E+01	< LLD	(0 /4 )	< LLD	(0 /2 )	2 3 4 5
									5
TOMATOES (PCI/KG(WET))	NAI GAMMA	CS-134	6	9.23E+00	< LLD	(0 /4 )	< LLD	(0 /2 )	2 3 4 5
									5
TOMATOES (PCI/KG(WET))	NAI GAMMA	CO-58	6	1.05E+01	< LLD	(0 /4 )	< LLD	(0 /2 )	2 3 4 5
									5
TOMATOES (PCI/KG(WET))	NAI GAMMA	MN-54	6	9.35E+00	< LLD	(0 /4 )	< LLD	(0 /2 )	2 3 4 5
									5
TOMATOES (PCI/KG(WET))	NAI GAMMA	TH-232	6	3.88E+01	< LLD	(0 /4 )	< LLD	(0 /2 )	2 3 4 5
									5

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					STATION	STATION-MEAN(N/TOTAL) RANGE	STATION-MEAN(N/TOTAL) RANGE		
TOMATOES (PCI/KG(WET))	NAI GAMMA	FE-59	6	2.32E+01	< LLD	(0 /4 )	< LLD	(0 /2 )	2 3 4 5
TOMATOES (PCI/KG(WET))	NAI GAMMA	CS-136	6	2.73E+01	< LLD	(0 /4 )	< LLD	(0 /2 )	2 3 4 5
TOMATOES (PCI/KG(WET))	NAI GAMMA	TE-132	6	1.51E+02	< LLD	(0 /4 )	< LLD	(0 /2 )	2 3 4 5
TOMATOES (PCI/KG(WET))	NAI GAMMA	ZN-65	6	2.42E+01	< LLD	(0 /4 )	< LLD	(0 /2 )	2 3 4 5
TOMATOES (PCI/KG(WET))	NAI GAMMA	CO-60	6	9.45E+00	< LLD	(0 /4 )	< LLD	(0 /2 )	2 3 4 5
TOMATOES (PCI/KG(WET))	NAI GAMMA	K-40	6	2.10E+02	2.02E+03 (4 /4 ) ( 1.80E+03 - 2.40E+03)		2.15E+03(2 /2 ) ( 1.80E+03 - 2.50E+03)		2 3 4 5
TOMATOES (PCI/KG(WET))	NAI GAMMA	BALA-140	6	2.15E+01	< LLD	(0 /4 )	< LLD	(0 /2 )	2 3 4 5

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						STATION		STATION-MEAN(N/TOTAL) RANGE	
TOMATOES (PCI/KG(WET))	NAI GAMMA	BE-7	6	8.45E+01	< LLD	(0 / 4 )	< LLD	(0 / 2 )	2 3 4 5
								5	
TOMATOES (PCI/KG(WET))	NAI GAMMA	CR-51	6	7.93E+01	< LLD	(0 / 4 )	< LLD	(0 / 2 )	2 3 4 5
								5	
TOMATOES (PCI/KG(WET))	NAI GAMMA	RA-226	6	1.62E+01	< LLD	(0 / 4 )	< LLD	(0 / 2 )	2 3 4 5
								5	
TOMATOES (PCI/KG(WET))	NAI GAMMA	I-131	6	2.72E+01	< LLD	(0 / 4 )	< LLD	(0 / 2 )	2 3 4 5
								5	
TOMATOES (PCI/KG(WET))	NAI GAMMA	NA-22	6	1.05E+01	< LLD	(0 / 4 )	< LLD	(0 / 2 )	2 3 4 5
								5	
TOMATOES (PCI/KG(WET))	NAI GAMMA	RU-106	6	8.30E+01	< LLD	(0 / 4 )	< LLD	(0 / 2 )	2 3 4 5
								5	
TOMATOES (PCI/KG(WET))	NAI GAMMA	I-133	6	9.15E+00	< LLD	(0 / 4 )	< LLD	(0 / 2 )	2 3 4 5
								5	

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					STATION	STATION-MEAN(N/TOTAL) RANGE	STATION	STATION-MEAN(N/TOTAL) RANGE	1	18	19	20	21
TOMATOES (PCI/KG(WET))	NAI GAMMA	CS-137	6	9.70E+00	< LLD	( 0 / 4 )	< LLD	( 0 / 2 )	2	3	4	5	
									5	< LLD ( 0 / 1 )			
WELL WATER (PCI/L)	GROSS ALPHA-SS		36	8.22E-01	3.34E-01	( 1 / 36 ) ( 3.34E-01 - 3.34E-01 )	.	( . / . ) ( . - . )	1	18	19	20	21
									22				
WELL WATER (PCI/L)	GROSS ALPHA-DS		36	2.04E+00	3.94E+00	( 14 / 36 ) ( 6.99E-01 - 9.32E+00 )	.	( . / . ) ( . - . )	1	18	19	20	21
									22				
WELL WATER (PCI/L)	GROSS BETA-SS		36	7.79E-01	6.31E-01	( 1 / 36 ) ( 6.31E-01 - 6.31E-01 )	.	( . / . ) ( . - . )	1	18	19	20	21
									22				
WELL WATER (PCI/L)	GROSS BETA-DS		36	1.03E+00	2.51E+00	( 30 / 36 ) ( 1.08E+00 - 4.76E+00 )	.	( . / . ) ( . - . )	1	18	19	20	21
									22				
WELL WATER (PCI/L)	POTASSIUM-40		12	8.60E-01	1.51E+00	( 7 / 12 ) ( 1.21E+00 - 2.05E+00 )	.	( . / . ) ( . - . )	1	18	19	20	21
									22				
									20				

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				STATION	STATION-MEAN(N/TOTAL) RANGE	STATION-MEAN(N/TOTAL) RANGE						
WELL WATER (PCI/L)	) TRITIUM	12	1.59E+02	< LLD	( 0 /12 )	( . . - . . )	1 18 19 20 21	22				
WELL WATER (PCI/L)	) NAI GAMMA	CE-144	12	6.33E+01	< LLD	( 0 /12 )	( . . - . . )	1 18 19 20 21				
WELL WATER (PCI/L)	) NAI GAMMA	AG-110M	12	6.76E+00	< LLD	( 0 /12 )	( . . - . . )	1 18 19 20 21				
WELL WATER (PCI/L)	) NAI GAMMA	TE-129M	12	1.17E+02	< LLD	( 0 /12 )	( . . - . . )	1 18 19 20 21				
WELL WATER (PCI/L)	) NAI GAMMA	MO-99	12	3.55E+02	< LLD	( 0 /12 )	( . . - . . )	1 18 19 20 21				
WELL WATER (PCI/L)	) NAI GAMMA	ZRN-95	12	6.25E+00	< LLD	( 0 /12 )	( . . - . . )	1 18 19 20 21				
WELL WATER (PCI/L)	) NAI GAMMA	CS-134	12	6.17E+00	< LLD	( 0 /12 )	( . . - . . )	1 18 19 20 21				

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					STATION	STATION-MEAN(N/TOTAL) RANGE	STATION-MEAN(N/TOTAL) RANGE	STATION-MEAN(N/TOTAL) RANGE	
WELL WATER (PCI/L)	NAI GAMMA	CO-58	12	6.58E+00	< LLD	(0 /12 )	( . . - . . )	( . . - . . )	1 18 19 20 21
WELL WATER (PCI/L)	NAI GAMMA	MH-54	12	6.04E+00	< LLD	(0 /12 )	( . . - . . )	( . . - . . )	1 18 19 20 21
WELL WATER (PCI/L)	NAI GAMMA	TH-232	12	2.22E+01	< LLD	(0 /12 )	( . . - . . )	( . . - . . )	1 18 19 20 21
WELL WATER (PCI/L)	NAI GAMMA	FE-59	12	1.27E+01	< LLD	(0 /12 )	( . . - . . )	( . . - . . )	1 18 19 20 21
WELL WATER (PCI/L)	NAI GAMMA	CS-136	12	1.16E+01	< LLD	(0 /12 )	( . . - . . )	( . . - . . )	1 18 19 20 21
WELL WATER (PCI/L)	NAI GAMMA	TE-132	12	4.48E+01	< LLD	(0 /12 )	( . . - . . )	( . . - . . )	1 18 19 20 21
WELL WATER (PCI/L)	NAI GAMMA	ZN-65	12	1.34E+01	< LLD	(0 /12 )	( . . - . . )	( . . - . . )	1 18 19 20 21

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						STATION		STATION-MEAN(N/TOTAL) RANGE						
WELL WATER (PCI/L)	NAI GAMMA	CO-60	12	6.73E+00	< LLD	(0 /12 )	( . . - . . )	1 18 19 20 21	22					
										22	< LLD (0 /2 )			
WELL WATER (PCI/L)	NAI GAMMA	K-40	12	7.64E+01	< LLD	(0 /12 )	( . . - . . )	1 18 19 20 21	22					
										22	< LLD (0 /2 )			
WELL WATER (PCI/L)	NAI GAMMA	BALA-140	12	9.70E+00	< LLD	(0 /12 )	( . . - . . )	1 18 19 20 21	22					
										22	< LLD (0 /2 )			
WELL WATER (PCI/L)	NAI GAMMA	BE-7	12	6.49E+01	< LLD	(0 /12 )	( . . - . . )	1 18 19 20 21	22					
										22	< LLD (0 /2 )			
WELL WATER (PCI/L)	NAI GAMMA	CR-51	12	7.47E+01	< LLD	(0 /12 )	( . . - . . )	1 18 19 20 21	22					
										22	< LLD (0 /2 )			
WELL WATER (PCI/L)	NAI GAMMA	RA-226	12	1.25E+01	2.65E+01 (2 /12 ) ( 2.50E+01 - 2.80E+01)		( . . - . . )	1 18 19 20 21	22					
										19	2.80E+01(1 /2 ) ( 2.80E+01 - 2.80E+01)			
WELL WATER (PCI/L)	NAI GAMMA	I-131	12	1.58E+01	< LLD	(0 /12 )	( . . - . . )	1 18 19 20 21	22					
										22	< LLD (0 /2 )			

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					STATION	STATION-MEAN(N/TOYAL) RANGE	STATION-MEAN(N/TOYAL) RANGE						
WELL WATER (PCI/L)	NAI GAMMA	NA-22	12	6.51E+00	< LLD	(0 /12 )	( . . - . . )	( . . - . . )	1	18	19	20	21
WELL WATER (PCI/L)	NAI GAMMA	RU-106	12	6.17E+01	< LLD	(0 /12 )	( . . - . . )	( . . - . . )	1	18	19	20	21
WELL WATER (PCI/L)	NAI GAMMA	I-133	12	1.36E+03	< LLD	(0 /12 )	( . . - . . )	( . . - . . )	1	18	19	20	21
WELL WATER (PCI/L)	NAI GAMMA	CS-137	12	7.00E+00	< LLD	(0 /12 )	( . . - . . )	( . . - . . )	1	18	19	20	21
WELL WATER (PCI/L)	RADIUM-226		12	7.81E-02	< LLD	(3.83E-01 (6 /12 ) ( 1.66E-01 - 5.73E-01)	( . . - . . )	( . . - . . )	1	18	19	20	21
WELL WATER (PCI/L)	RADIUM-228		12	7.27E-01	< LLD	(0 /12 )	( . . - . . )	( . . - . . )	1	18	19	20	21
WELL WATER (PCI/L)	TOTAL URANIUM		12	1.75E-01	< LLD	(4.28E-01 (12 /12 ) ( 2.40E-01 - 7.70E-01)	( . . - . . )	( . . - . . )	1	18	19	20	21



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					STATION	STATION-MEAN(N/TOTAL) RANGE	STATION	STATION-MEAN(N/TOTAL) RANGE	
CLAMS (PCI/KG(WET))	GROSS ALPHA		24	4.16E+01	1.51E+02 (15 /18 ) ( 5.03E+01 - 3.57E+02)		8.38E+01(6 /6 ) ( 4.50E+01 - 1.38E+02)		23 24 25
					24	1.72E+02(5 /6 ) ( 5.66E+01 - 3.57E+02)			
CLAMS (PCI/KG(WET))	GROSS BETA		24	2.29E+01	9.18E+02 (18 /18 ) ( 1.95E+02 - 1.39E+03)		9.91E+02(6 /6 ) ( 6.55E+02 - 1.45E+03)		23 24 25
					25	9.44E+02(6 /6 ) ( 4.44E+02 - 1.39E+03)			
CLAMS (MG/GM(WET))	CALCIUM BY AA		8	2.60E-01	7.21E+01 (6 /6 ) ( 3.00E+01 - 1.40E+02)		7.65E+01(2 /2 ) ( 4.50E+01 - 1.08E+02)		23 24 25
					25	9.50E+01(2 /2 ) ( 5.00E+01 - 1.40E+02)			
CLAMS (PCI/KG(WET))	NAI GAMMA	CE-144	8	1.13E+02	< LLD (0 /6 )		< LLD (0 /2 )		23 24 25
					25	< LLD (0 /2 )			
CLAMS (PCI/KG(WET))	NAI GAMMA	AG-110M	8	2.85E+01	< LLD (0 /6 )		< LLD (0 /2 )		23 24 25
					25	< LLD (0 /2 )			
CLAMS (PCI/KG(WET))	NAI GAMMA	TE-129M	8	6.19E+02	< LLD (0 /6 )		< LLD (0 /2 )		23 24 25
					25	< LLD (0 /2 )			
CLAMS (PCI/KG(WET))	NAI GAMMA	MO-99	8	1.94E+04	< LLD (0 /6 )		< LLD (0 /2 )		23 24 25
					25	< LLD (0 /2 )			

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					STATION	STATION-MEAN(N/TOTAL) RANGE	STATION-MEAN(N/TOTAL) RANGE		
CLAMS (PCI/KG(WET))	NAI GAMMA	ZRNb-95	8	3.09E+01	< LLD	(0 /6 )	< LLD	(0 /2 )	23 24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	CS-134	8	2.76E+01	< LLD	(0 /6 )	< LLD	(0 /2 )	23 24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	CO-58	8	3.25E+01	< LLD	(0 /6 )	< LLD	(0 /2 )	23 24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	MN-54	8	2.83E+01	< LLD	(0 /6 )	< LLD	(0 /2 )	23 24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	TH-232	8	1.09E+02	< LLD	(0 /6 )	< LLD	(0 /2 )	23 24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	FE-59	8	7.75E+01	< LLD	(0 /6 )	< LLD	(0 /2 )	23 24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	CS-136	8	1.07E+02	< LLD	(0 /6 )	< LLD	(0 /2 )	23 24 25

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					STATION	STATION-MEAN(N/TOTAL) RANGE	STATION	STATION-MEAN(N/TOTAL) RANGE	
CLAMS (PCI/KG(WET))	NAI GAMMA	TE-132	8	9.23E+02	< LLD	( 0 / 6 )	< LLD	( 0 / 2 )	23 24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	ZN-65	8	6.95E+01	< LLD	( 0 / 6 )	< LLD	( 0 / 2 )	23 24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	CO-60	8	3.31E+01	< LLD	( 0 / 6 )	< LLD	( 0 / 2 )	23 24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	K-40	8	4.29E+02	1.07E+03 ( 5 / 6 ) ( 5.30E+02 - 1.80E+03 )	1.65E+03 ( 2 / 2 ) ( 1.00E+03 - 2.30E+03 )	1.38E+03 ( 2 / 2 ) ( 9.50E+02 - 1.80E+03 )	( 0 / 2 )	23 24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	BALA-140	8	8.80E+01	< LLD	( 0 / 6 )	< LLD	( 0 / 2 )	23 24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	BE-7	8	3.20E+02	< LLD	( 0 / 6 )	< LLD	( 0 / 2 )	23 24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	CR-51	8	2.74E+02	< LLD	( 0 / 6 )	< LLD	( 0 / 2 )	23 24 25

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					STATION	STATION-MEAN(N/TOTAL) RANGE	STATION-MEAN(N/TOTAL) RANGE	STATION-MEAN(N/TOTAL) RANGE	
CLAMS (PCI/KG(WET))	NAI GAMMA	RA-226	8	5.05E+01	< LLD	(0 /6 )	< LLD	(0 /2 )	23 24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	I-131	8	1.33E+02	< LLD	(0 /6 )	< LLD	(0 /2 )	23 24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	HA-22	8	3.15E+01	< LLD	(0 /6 )	< LLD	(0 /2 )	23 24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	RU-106	8	2.80E+02	< LLD	(0 /6 )	< LLD	(0 /2 )	23 24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	I-133	8	3.31E+01	< LLD	(0 /6 )	< LLD	(0 /2 )	23 24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	CS-137	8	3.11E+01	< LLD	(0 /6 )	< LLD	(0 /2 )	23 24 25
CLAMS (PCI/KG(WET))	STRONTIUM-89		8	2.89E+01	< LLD	(0 /6 )	< LLD	(0 /2 )	23 24 25

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						STATION		STATION-MEAN(N/TOTAL) RANGE					
CLAMS (PCI/KG(WET))	STRONTIUM-90		8	1.52E+01	< LLD	(0 /6 )	< LLD	(0 /2 )	23	24	25		
									25	< LLD (0 /2 )			
SOIL (PCI/KG(DRY))	GROSS BETA		30	1.69E+03	4.42E+03	(27 /30 )	( 1.90E+03 - 9.46E+03 )	( . - . )	1	2	3	4	5
									2	5.76E+03(6 /6 )			
SOIL (PCI/KG(DRY))	GELI GAMMA	CE-144	20	2.27E+02	< LLD	(0 /20 )	( . - . )	( . - . )	1	2	3	4	5
									5	< LLD (0 /4 )			
SOIL (PCI/KG(DRY))	GELI GAMMA	AG-110M	20	8.19E+01	< LLD	(0 /20 )	( . - . )	( . - . )	1	2	3	4	5
									5	< LLD (0 /4 )			
SOIL (PCI/KG(DRY))	GELI GAMMA	TE-129M	20	1.26E+03	< LLD	(0 /20 )	( . - . )	( . - . )	1	2	3	4	5
									5	< LLD (0 /4 )			
SOIL (PCI/KG(DRY))	GELI GAMMA	MO-99	19	1.43E+03	< LLD	(0 /19 )	( . - . )	( . - . )	1	2	3	4	5
									5	< LLD (0 /4 )			
SOIL (PCI/KG(DRY))	GELI GAMMA	ZRN-95	10	4.13E+01	< LLD	(0 /10 )	( . - . )	( . - . )	1	2	3	4	5
									5	< LLD (0 /2 )			

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					STATION	STATION-MEAN(N/TOTAL) RANGE	STATION	STATION-MEAN(N/TOTAL) RANGE	
SOIL (PCI/KG(DRY))	GELI GAMMA	CS-134	20	4.09E+01	< LLD	(0 /20 )	( . . - . . )	1 2 3 4 5	
SOIL (PCI/KG(DRY))	GELI GAMMA	CO-58	20	3.31E+01	< LLD	(0 /20 )	( . . - . . )	1 2 3 4 5	
SOIL (PCI/KG(DRY))	GELI GAMMA	MN-54	20	3.20E+01	< LLD	(0 /20 )	( . . - . . )	1 2 3 4 5	
SOIL (PCI/KG(DRY))	GELI GAMMA	TH-232	20	1.29E+02	< LLD	3.06E+02 (17 /20 ) ( 1.60E+02 - 6.50E+02)	( . . - . . )	1 2 3 4 5	
SOIL (PCI/KG(DRY))	GELI GAMMA	FE-59	20	6.73E+01	< LLD	(0 /20 )	( . . - . . )	1 2 3 4 5	
SOIL (PCI/KG(DRY))	GELI GAMMA	CS-136	19	6.01E+01	< LLD	(0 /19 )	( . . - . . )	1 2 3 4 5	
SOIL (PCI/KG(DRY))	GELI GAMMA	ZN-65	20	8.53E+01	< LLD	(0 /20 )	( . . - . . )	1 2 3 4 5	

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						STATION	STATION-MEAN(N/TOTAL) RANGE	1	2	3	4
SOIL (PCI/KG(DRY))	GELI GAMMA	CO-60	20	4.17E+01	6.00E+01 (2 /20 ) ( 6.00E+01 - 6.00E+01)	( . . - . / . )	1	2	3	4	5
						2	6.00E+01(1 /4 ) ( 6.00E+01 - 6.00E+01)				
SOIL (PCI/KG(DRY))	GELI GAMMA	K-40	20	4.24E+02	1.18E+03 (18 /20 ) ( 2.20E+02 - 2.00E+03)	( . . - . / . )	1	2	3	4	5
						1	1.45E+03(4 /4 ) ( 5.10E+02 - 1.90E+03)				
SOIL (PCI/KG(DRY))	GELI GAMMA	BALA-140	20	7.11E+01	< LLD (0 /20 )	( . . - . / . )	1	2	3	4	5
						5	< LLD (0 /4 )				
SOIL (PCI/KG(DRY))	GELI GAMMA	BE-7	20	4.40E+02	< LLD (0 /20 )	( . . - . / . )	1	2	3	4	5
						5	< LLD (0 /4 )				
SOIL (PCI/KG(DRY))	GELI GAMMA	ZR-95	11	7.51E+01	< LLD (0 /11 )	( . . - . / . )	1	2	3	4	5
						5	< LLD (0 /2 )				
SOIL (PCI/KG(DRY))	GELI GAMMA	NB-95	11	1.04E+02	< LLD (0 /11 )	( . . - . / . )	1	2	3	4	5
						5	< LLD (0 /2 )				
SOIL (PCI/KG(DRY))	GELI GAMMA	SB-125	20	1.01E+02	< LLD (0 /20 )	( . . - . / . )	1	2	3	4	5
						5	< LLD (0 /4 )				

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									STATION	STATION-MEAN(N/TOTAL) RANGE			
SOIL (PCI/KG(DRY))	GELI GAMMA	CE-141	20	1.38E+02	< LLD	(0 /20 )	( . . - . . )	( . . - . . )	1	2	3	4	5
SOIL (PCI/KG(DRY))	GELI GAMMA	RU-103	20	6.48E+01	< LLD	(0 /20 )	( . . - . . )	( . . - . . )	1	2	3	4	5
SOIL (PCI/KG(DRY))	GELI GAMMA	CR-51	20	3.86E+02	< LLD	(0 /20 )	( . . - . . )	( . . - . . )	1	2	3	4	5
SOIL (PCI/KG(DRY))	GELI GAMMA	RA-226	20	8.28E+01	< LLD	(0 /20 )	( . . - . . )	( . . - . . )	1	2	3	4	5
SOIL (PCI/KG(DRY))	GELI GAMMA	I-131	20	1.22E+02	< LLD	(0 /20 )	( . . - . . )	( . . - . . )	1	2	3	4	5
SOIL (PCI/KG(DRY))	GELI GAMMA	NP-239	15	1.32E+05	< LLD	(0 /15 )	( . . - . . )	( . . - . . )	1	2	3	4	5
SOIL (PCI/KG(DRY))	GELI GAMMA	RU-106	20	2.90E+02	< LLD	(0 /20 )	( . . - . . )	( . . - . . )	1	2	3	4	5



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						STATION-MEAN(N/TOTAL) RANGE	
SOIL (PCI/KG(DRY))	GELI GAMMA	CO-57	20	2.67E+01	< LLD (0 /20 )	( . . - ( . / . ) )	1 2 3 4 5
						5 < LLD (0 /4 )	
SOIL (PCI/KG(DRY))	GELI GAMMA	CS-137	20	4.59E+01	5.69E+02 (20 /20 ) ( 4.10E+01 - 1.50E+03 )	( . . - ( . / . ) )	1 2 3 4 5
						2 8.88E+02(4 /4 ) ( 1.80E+02 - 1.50E+03 )	
PASTURE (PCI/KG(WET))	GROSS BETA	6	5.35E+01	3.10E+03 (6 /6 ) ( 1.28E+03 - 4.53E+03 )	( . . - ( . / . ) )	28 29 30	
					30 3.83E+03(2 /2 ) ( 3.13E+03 - 4.53E+03 )		
PASTURE (MG/GM(WET) )	CALCIUM BY AA	6	8.00E-02	1.21E+02 (6 /6 ) ( 4.00E+01 - 2.23E+02 )	( . . - ( . / . ) )	28 29 30	
					29 1.41E+02(2 /2 ) ( 6.00E+01 - 2.23E+02 )		
PASTURE (PCI/KG(WET))	NAI GAMMA	CE-144	6	2.82E+02	< LLD (0 /6 )	( . . - ( . / . ) )	28 29 30
						30 < LLD (0 /2 )	
PASTURE (PCI/KG(WET))	NAI GAMMA	AG-110M	6	8.52E+01	< LLD (0 /6 )	( . . - ( . / . ) )	28 29 30
						30 < LLD (0 /2 )	
PASTURE (PCI/KG(WET))	NAI GAMMA	TE-129M	6	1.82E+03	< LLD (0 /6 )	( . . - ( . / . ) )	28 29 30
						30 < LLD (0 /2 )	

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					STATION	STATION-MEAN(N/TOTAL) RANGE	STATION	STATION-MEAN(N/TOTAL) RANGE	
PASTURE (PCI/KG(WET))	NAI GAMMA	MO-99	6	4.64E+04	< LLD	(0 / 6 )	(. / . )	28 29 30	
						30	< LLD (0 / 2 )		
PASTURE (PCI/KG(WET))	NAI GAMMA	ZRN8-95	6	8.68E+01	< LLD	(0 / 6 )	(. / . )	28 29 30	
						30	< LLD (0 / 2 )		
PASTURE (PCI/KG(WET))	NAI GAMMA	CS-134	6	8.20E+01	< LLD	(0 / 6 )	(. / . )	28 29 30	
						30	< LLD (0 / 2 )		
PASTURE (PCI/KG(WET))	NAI GAMMA	CO-58	6	9.90E+01	< LLD	(0 / 6 )	(. / . )	28 29 30	
						30	< LLD (0 / 2 )		
PASTURE (PCI/KG(WET))	NAI GAMMA	MN-54	6	8.75E+01	< LLD	(0 / 6 )	(. / . )	28 29 30	
						30	< LLD (0 / 2 )		
PASTURE (PCI/KG(WET))	NAI GAMMA	TH-232	6	3.03E+02	< LLD	(0 / 6 )	(. / . )	28 29 30	
						30	< LLD (0 / 2 )		
PASTURE (PCI/KG(WET))	NAI GAMMA	FE-59	6	2.42E+02	< LLD	(0 / 6 )	(. / . )	28 29 30	
						30	< LLD (0 / 2 )		

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					STATION	STATION-MEAN(N/TOTAL) RANGE	STATION-MEAN(N/TOTAL) RANGE	STATION-MEAN(N/TOTAL) RANGE	
PASTURE (PCI/KG(WET))	NAI GAMMA	CS-136	6	3.38E+02	< LLD	(0 /6 )	( . . - . . )	28 29 30	
PASTURE (PCI/KG(WET))	NAI GAMMA	TE-132	6	2.41E+03	< LLD	(0 /6 )	( . . - . . )	28 29 30	
PASTURE (PCI/KG(WET))	NAI GAMMA	ZN-65	6	1.92E+02	< LLD	(0 /6 )	( . . - . . )	28 29 30	
PASTURE (PCI/KG(WET))	NAI GAMMA	CO-60	6	9.18E+01	< LLD	(0 /6 )	( . . - . . )	28 29 30	
PASTURE (PCI/KG(WET))	NAI GAMMA	K-40	6	1.17E+03	4.00E+03 (2 /6 ) ( 3.80E+03 - 4.20E+03)	( . . - . . )	( . . - . . )	28 29 30	
PASTURE (PCI/KG(WET))	NAI GAMMA	BALA-140	6	3.33E+02	< LLD	(0 /6 )	( . . - . . )	28 29 30	
PASTURE (PCI/KG(WET))	NAI GAMMA	BE-7	6	8.75E+02	< LLD	(0 /6 )	( . . - . . )	28 29 30	

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SAMPLE TYPE	ANALYSIS	ISOTOPE NUMBER	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE		BACKGROUND-MEAN(N/TOTAL) RANGE		STATIONS USED FOR INDICATOR MEAN
					STATION	STATION-MEAN(N/TOTAL) RANGE	STATION	STATION-MEAN(N/TOTAL) RANGE	
PASTURE (PCI/KG(WET))	NAI GAMMA	CR-51	6	9.60E+02	< LLD	(0 /6 )	( . / . )	28 29 30	
						30	< LLD (0 /2 )		( . - . )
PASTURE (PCI/KG(WET))	NAI GAMMA	RA-226	6	1.71E+02	< LLD	(0 /6 )	( . / . )	28 29 30	
						30	< LLD (0 /2 )		( . - . )
PASTURE (PCI/KG(WET))	NAI GAMMA	I-131	6	5.32E+02	< LLD	(0 /6 )	( . / . )	28 29 30	
						30	< LLD (0 /2 )		( . - . )
PASTURE (PCI/KG(WET))	NAI GAMMA	NA-22	6	9.32E+01	< LLD	(0 /6 )	( . / . )	28 29 30	
						30	< LLD (0 /2 )		( . - . )
PASTURE (PCI/KG(WET))	NAI GAMMA	RU-106	6	8.12E+02	< LLD	(0 /6 )	( . / . )	28 29 30	
						30	< LLD (0 /2 )		( . - . )
PASTURE (PCI/KG(WET))	NAI GAMMA	I-133	6	9.50E+01	< LLD	(0 /6 )	( . / . )	28 29 30	
						30	< LLD (0 /2 )		( . - . )
PASTURE (PCI/KG(WET))	NAI GAMMA	CS-137	6	9.10E+01	< LLD	(0 /6 )	( . / . )	28 29 30	
						30	< LLD (0 /2 )		( . - . )

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SAMPLE TYPE	ANALYSIS	ISOTOPE NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE		BACKGROUND-MEAN(N/TOTAL) RANGE		STATIONS USED FOR INDICATOR MEAN	
					STATION		STATION-MEAN(N/TOTAL) RANGE		
PASTURE (PCI/KG(WET))	STRONTIUM-89	6	4.45E+01	< LLD	(0 /6 )	( . . - . . )	28 29 30		
								30	< LLD (0 /2 )
PASTURE (PCI/KG(WET))	STRONTIUM-90	6	3.04E+02	< LLD	(0 /6 )	( . . - . . )	28 29 30		
								30	< LLD (0 /2 )
SEDIMENT (PCI/KG(DRY))	GROSS ALPHA	16	3.69E+03	6.42E+03 (7 /14 ) ( 3.98E+03 - 1.29E+04 )	< LLD	(0 /2 )	23 24 25 26 27 32 33		
								33	9.29E+03(2 /2 ) ( 5.69E+03 - 1.29E+04 )
SEDIMENT (PCI/KG(DRY))	GROSS BETA	16	2.50E+03	8.36E+03 (10 /14 ) ( 1.63E+03 - 1.88E+04 )	1.10E+04(2 /2 ) ( 1.07E+04 - 1.13E+04 )	(0 /2 )	23 24 25 26 27 32 33		
								33	1.70E+04(2 /2 ) ( 1.52E+04 - 1.88E+04 )
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	CE-144	40	2.44E+02	8.10E+01 (1 /34 ) ( 8.10E+01 - 8.10E+01 )	< LLD	(0 /6 )	23 24 25 26 27 32 33	
									32
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	AG-110M	40	4.86E+01	< LLD	(0 /34 )	< LLD	(0 /6 )	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	TE-129M	40	1.72E+03	< LLD	(0 /34 )	< LLD	(0 /6 )	23 24 25 26 27 32 33

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE		BACKGROUND-MEAN(N/TOTAL) RANGE		STATIONS USED FOR INDICATOR MEAN				
					STATION		STATION-MEAN(N/TOTAL) RANGE						
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	MO-99	23	1.06E+03	< LLD	(0 /20 )	< LLD	(0 /3 )	23	24	25	26	27
									32	33			
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	ZRNB-95	20	4.25E+01	< LLD	(0 /17 )	< LLD	(0 /3 )	23	24	25	26	27
									32	33			
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	CS-134	40	5.12E+01	< LLD	(0 /34 )	< LLD	(0 /6 )	23	24	25	26	27
									32	33			
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	CO-58	40	5.60E+01	< LLD	(0 /34 )	< LLD	(0 /6 )	23	24	25	26	27
									32	33			
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	MN-54	40	4.93E+01	7.60E+01 (4 /34 ) ( 3.50E+01 - 1.20E+02)	< LLD	(0 /6 )	< LLD	23	24	25	26	27
									32	33			
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	TH-232	40	1.61E+02	3.94E+02 (28 /34 ) ( 1.80E+02 - 7.60E+02)	< LLD	(0 /6 )	3.45E+02(6 /6 ) ( 2.60E+02 - 4.00E+02)	23	24	25	26	27
									32	33			
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	FE-59	40	1.46E+02	< LLD	(0 /34 )	< LLD	(0 /6 )	23	24	25	26	27
									32	33			

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SAMPLE TYPE	ANALYSIS	ISOTOPE NUMBER	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE		BACKGROUND-MEAN(N/TOTAL) RANGE		STATIONS USED FOR INDICATOR MEAN				
					STATION	STATION-MEAN(N/TOTAL) RANGE							
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	CS-136	40	1.03E+03	< LLD	( 0 /34 )	< LLD	( 0 /6 )	23	24	25	26	27
									32	33			
									33	< LLD ( 0 /6 )			
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	ZN-65	40	1.24E+02	< LLD	( 0 /34 )	< LLD	( 0 /6 )	23	24	25	26	27
									32	33			
									33	< LLD ( 0 /6 )			
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	CO-60	40	6.27E+01	5.16E+02 ( 14 /34 )	( 4.90E+01 - 1.40E+03 )	< LLD	( 0 /6 )	23	24	25	26	27
									32	33			
									33	1.06E+03(5 /6 ) ( 6.90E+02 - 1.40E+03 )			
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	K-40	40	5.91E+02	5.95E+03 ( 31 /34 )	( 2.80E+02 - 1.50E+04 )	9.02E+03(4 /6 )	( 5.00E+03 - 1.20E+04 )	23	24	25	26	27
									32	33			
									33	1.30E+04(5 /6 ) ( 1.20E+04 - 1.50E+04 )			
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	BALA-140	40	1.06E+03	< LLD	( 0 /34 )	< LLD	( 0 /6 )	23	24	25	26	27
									32	33			
									33	< LLD ( 0 /6 )			
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	BE-7	40	5.93E+02	4.64E+02 ( 5 /34 )	( 3.00E+02 - 5.60E+02 )	< LLD	( 0 /6 )	23	24	25	26	27
									32	33			
									33	5.60E+02(1 /6 ) ( 5.60E+02 - 5.60E+02 )			
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	ZR-95	20	1.43E+02	< LLD	( 0 /17 )	< LLD	( 0 /3 )	23	24	25	26	27
									32	33			
									33	< LLD ( 0 /3 )			

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE		BACKGROUND-MEAN(N/TOTAL) RANGE		STATIONS USED FOR INDICATOR MEAN				
					STATION	STATION-MEAN(N/TOTAL) RANGE	STATION-MEAN(N/TOTAL) RANGE						
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	NB-95	20	1.44E+02	< LLD	(0 /17 )	< LLD	(0 /3 )	23	24	25	26	27
									32	33			
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	SB-125	40	1.21E+02	< LLD	(0 /34 )	< LLD	(0 /6 )	23	24	25	26	27
									32	33			
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	CE-141	40	1.80E+02	< LLD	(0 /34 )	< LLD	(0 /6 )	23	24	25	26	27
									32	33			
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	RU-103	40	8.52E+01	< LLD	(0 /34 )	< LLD	(0 /6 )	23	24	25	26	27
									32	33			
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	CR-51	40	4.64E+02	< LLD	(0 /34 )	< LLD	(0 /6 )	23	24	25	26	27
									32	33			
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	RA-226	40	9.78E+01	3.24E+02 (33 /34 ) ( 1.30E+02 - 5.30E+02)		2.52E+02(6 /6 ) ( 1.40E+02 - 3.20E+02)		23	24	25	26	27
									32	33			
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	I-131	40	2.16E+02	< LLD	(0 /34 )	< LLD	(0 /6 )	23	24	25	26	27
									32	33			
									33	< LLD (0 /6 )			



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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE		BACKGROUND-MEAN(N/TOTAL) RANGE		STATIONS USED FOR INDICATOR MEAN				
					STATION	STATION-MEAN(N/TOTAL) RANGE							
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	NP-239	21	1.12E+05	< LLD	( 0 /18 )	< LLD	( 0 /3 )	23	24	25	26	27
									32	33			
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	RU-106	40	4.02E+02	< LLD	( 0 /34 )	< LLD	( 0 /6 )	23	24	25	26	27
									32	33			
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	CO-57	40	3.90E+01	< LLD	( 0 /34 )	< LLD	( 0 /6 )	23	24	25	26	27
									32	33			
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	CS-137	40	5.31E+01	1.88E+02 ( 18 /34 ) ( 2.90E+01 - 6.50E+02 )	4.10E+01 ( 1 /6 ) ( 4.10E+01 - 4.10E+01 )	2.59E+02 ( 5 /6 ) ( 5.90E+01 - 6.50E+02 )	23	24	25	26	27	
								32	33				
SEDIMENT (PCI/KG(DRY))	STRONTIUM-89		16	1.22E+01	2.40E+01 ( 7 /14 ) ( 1.07E+01 - 6.02E+01 )	2.28E+01 ( 1 /2 ) ( 2.28E+01 - 2.28E+01 )	6.02E+01 ( 1 /2 ) ( 6.02E+01 - 6.02E+01 )	23	24	25	26	27	
								32	33				
SEDIMENT (PCI/KG(DRY))	STRONTIUM-90		16	6.19E+00	< LLD	( 0 /14 )	< LLD	( 0 /2 )	23	24	25	26	27
									32	33			

TABLE 19

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SAMPLE TYPE	ANALYSIS	ISOTOPE NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
VEGETATION (PCI/KG(WET))	GROSS BETA	15	3.30E+01	2.23E+03 (15 /15 ) ( 1.77E+03 - 2.69E+03)	( . / . ) ( . - . )	1 2 3 4 5
AIR PARTICULATE (PCI/M3 )	GROSS ALPHA	52	6.30E-04	1.33E-03 (23 /33 ) ( 5.87E-04 - 2.27E-03)	1.23E-03(17 /19 ) ( 3.32E-04 - 2.43E-03)	1 2 3 4 5
AIR PARTICULATE (PCI/M3 )	GROSS BETA	52	5.34E-03	1.53E-02 (29 /33 ) ( 7.32E-03 - 2.88E-02)	1.47E-02(19 /19 ) ( 3.59E-03 - 2.81E-02)	1 2 3 4 5
AIR PARTICULATE (PCI/M3 )	STRONTIUM-89	5	1.17E-03	< LLD (0 /3 )	< LLD (0 /2 )	1 2 4
AIR PARTICULATE (PCI/M3 )	STRONTIUM-90	5	9.90E-04	< LLD (0 /3 )	< LLD (0 /2 )	1 2 4
PRECIPITATION (PCI/L )	GROSS BETA-SS	24	1.41E+00	8.67E-01 (2 /15 ) ( 4.05E-01 - 1.33E+00)	1.07E+00(2 /9 ) ( 9.73E-01 - 1.16E+00)	1 2 3 4 5
PRECIPITATION (PCI/L )	GROSS BETA-DS	24	1.70E+00	4.47E+00 (11 /15 ) ( 9.95E-01 - 9.55E+00)	4.07E+00(9 /9 ) ( 2.44E+00 - 6.82E+00)	1 2 3 4 5
PRECIPITATION (PCI/L )	TRITIUM	24	1.46E+02	< LLD (0 /15 )	< LLD (0 /9 )	1 2 3 4 5
PRECIPITATION (PCI/L )	STRONTIUM-89	24	5.29E-01	< LLD (0 /15 )	< LLD (0 /9 )	1 2 3 4 5
PRECIPITATION (PCI/L )	STRONTIUM-90	24	5.98E-01	< LLD (0 /15 )	< LLD (0 /9 )	1 2 3 4 5
AIR IODINE (PCI/M3 )	IODINE-131	51	3.42E-02	< LLD (0 /33 )	< LLD (0 /18 )	1 2 3 4 5
SURFACE WATER (PCI/L )	GROSS ALPHA-SS	24	8.94E-01	< LLD (0 /21 )	< LLD (0 /3 )	23 24 25 26 27 32 33

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SAMPLE TYPE	ANALYSIS	ISOTOPE NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN				
						23	24	25	26	27
SURFACE WATER (PCI/L)	GROSS ALPHA-DS	24	2.98E-01	1.27E+00 (20 /21 ) ( 4.50E-01 - 2.01E+00)	1.81E+00(3 /3 ) ( 1.61E+00 - 1.97E+00)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	GROSS BETA-SS	24	1.26E+00	9.29E-01 (1 /21 ) ( 9.29E-01 - 9.29E-01)	< LLD (0 /3 )	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	GROSS BETA-DS	24	1.49E+01	1.63E+02 (16 /21 ) ( 2.97E+00 - 2.44E+02)	2.08E+02(3 /3 ) ( 1.87E+02 - 2.45E+02)	23 32	24 33	25	26	27
SURFACE WATER (MG/L)	CALCIUM BY AA	24	8.00E-02	1.48E+02 (21 /21 ) ( 1.00E-01 - 3.25E+02)	2.27E+02(3 /3 ) ( 1.20E+02 - 3.50E+02)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	TRITIUM	24	1.66E+02	< LLD (0 /21 )	< LLD (0 /3 )	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	IODINE-131	24	1.38E-01	< LLD (0 /21 )	< LLD (0 /3 )	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	RADIUM-226	24	8.73E-02	3.16E-01 (12 /21 ) ( 4.53E-02 - 6.81E-01)	1.49E-01(1 /3 ) ( 1.49E-01 - 1.49E-01)	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	RADIUM-228	24	1.06E+00	5.39E-01 (1 /21 ) ( 5.39E-01 - 5.39E-01)	< LLD (0 /3 )	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	STRONTIUM-89	24	4.66E-01	< LLD (0 /21 )	< LLD (0 /3 )	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	STRONTIUM-90	24	5.56E-01	< LLD (0 /21 )	< LLD (0 /3 )	23 32	24 33	25	26	27
SURFACE WATER (PCI/L)	TOTAL URANIUM	24	1.43E-01	9.71E-01 (20 /21 ) ( 2.60E-01 - 1.65E+00)	1.41E+00(3 /3 ) ( 1.29E+00 - 1.59E+00)	23 32	24 33	25	26	27
WELL WATER (PCI/L)	GROSS ALPHA-SS	18	5.08E-01	3.34E-01 (1 /18 ) ( 3.34E-01 - 3.34E-01)	( . / . ) ( . - . )	1 22	18	19	20	21

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SAMPLE TYPE	ANALYSIS	ISOTOPE NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
WELL WATER (PCI/L)	GROSS ALPHA-DS	18	2.13E+00	3.33E+00 (8 /18 ) ( 1.75E+00 - 4.87E+00)	( . . - . . )	1 18 19 20 21 22
WELL WATER (PCI/L)	GROSS BETA-SS	18	7.96E-01	6.31E-01 (1 /18 ) ( 6.31E-01 - 6.31E-01)	( . . - . . )	1 18 19 20 21 22
WELL WATER (PCI/L)	GROSS BETA-DS	18	1.26E+00	2.15E+00 (12 /18 ) ( 1.08E+00 - 3.23E+00)	( . . - . . )	1 18 19 20 21 22
WELL WATER (PCI/L)	POTASSIUM-40	6	8.60E-01	1.74E+00 (2 /6 ) ( 1.43E+00 - 2.05E+00)	( . . - . . )	1 18 19 20 21 22
WELL WATER (PCI/L)	TRITIUM	6	1.76E+02	< LLD (0 /6 )	( . . - . . )	1 18 19 20 21 22
WELL WATER (PCI/L)	RADIUM-226	6	8.38E-02	2.97E-01 (1 /6 ) ( 2.97E-01 - 2.97E-01)	( . . - . . )	1 18 19 20 21 22
WELL WATER (PCI/L)	RADIUM-228	6	6.47E-01	< LLD (0 /6 )	( . . - . . )	1 18 19 20 21 22
WELL WATER (PCI/L)	TOTAL URANIUM	6	1.10E-01	3.70E-01 (6 /6 ) ( 2.40E-01 - 4.90E-01)	( . . - . . )	1 18 19 20 21 22
CLAMS (PCI/KG(WET))	GROSS ALPHA	12	5.53E+01	1.16E+02 (6 /9 ) ( 7.66E+01 - 1.39E+02)	1.01E+02(3 /3 ) ( 8.29E+01 - 1.38E+02)	23 24 25
CLAMS (PCI/KG(WET))	GROSS BETA	12	2.39E+01	8.73E+02 (9 /9 ) ( 1.95E+02 - 1.39E+03)	8.28E+02(3 /3 ) ( 8.01E+02 - 8.49E+02)	23 24 25
CLAMS (MG/GM(WET))	CALCIUM BY AA	4	8.00E-02	4.08E+01 (3 /3 ) ( 3.00E+01 - 5.00E+01)	4.50E+01(1 /1 ) ( 4.50E+01 - 4.50E+01)	23 24 25
CLAMS (PCI/KG(WET))	STRONTIUM-89	4	6.07E+00	< LLD (0 /3 )	< LLD (0 /1 )	23 24 25

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							23	24	25	26	27		
CLAMS (PCI/KG(WET))	STRONTIUM-90	4	4.12E+00	< LLD	(0 / 3 )	< LLD	(0 / 1 )	23	24	25			
SOIL (PCI/KG(DRY))	GROSS BETA	15	1.65E+03	4.41E+03	(14 / 15 ) ( 1.90E+03 - 9.11E+03)	( . - . )	( . / . )	1	2	3	4	5	
PASTURE (PCI/KG(WET))	GROSS BETA	3	6.05E+01	3.85E+03	(3 / 3 ) ( 3.15E+03 - 4.53E+03)	( . - . )	( . / . )	28	29	30			
PASTURE (MG/GM(WET))	CALCIUM BY AA	3	8.00E-02	5.33E+01	(3 / 3 ) ( 4.00E+01 - 6.00E+01)	( . - . )	( . / . )	28	29	30			
PASTURE (PCI/KG(WET))	STRONTIUM-89	3	1.84E+01	< LLD	(0 / 3 )	( . - . )	( . / . )	28	29	30			
PASTURE (PCI/KG(WET))	STRONTIUM-90	3	1.93E+02	< LLD	(0 / 3 )	( . - . )	( . / . )	28	29	30			
SEDIMENT (PCI/KG(DRY))	GROSS ALPHA	8	3.93E+03	7.05E+03	(5 / 7 ) ( 4.70E+03 - 1.29E+04)	< LLD	(0 / 1 )	23	24	25	26	27	
SEDIMENT (PCI/KG(DRY))	GROSS BETA	8	1.11E+03	8.12E+03	(7 / 7 ) ( 1.63E+03 - 1.88E+04)	1.13E+04	(1 / 1 ) ( 1.13E+04 - 1.13E+04)	23	24	25	26	27	
SEDIMENT (PCI/KG(DRY))	STRONTIUM-89	8	8.73E+00	< LLD	(0 / 7 )	< LLD	(0 / 1 )	23	24	25	26	27	
SEDIMENT (PCI/KG(DRY))	STRONTIUM-90	8	8.99E+00	< LLD	(0 / 7 )	< LLD	(0 / 1 )	23	24	25	26	27	
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CE-144	52	3.68E-02	< LLD	(0 / 33 )	< LLD	(0 / 19 )	1	2	3	4	5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	AG-110M	52	5.39E-03	< LLD	(0 / 33 )	< LLD	(0 / 19 )	1	2	3	4	5

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SAMPLE TYPE	ANALYSIS	ISOTOPE NUMBER	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
AIR PARTICULATE (PCI/M3)	GELI GAMMA	TE-129M	52	2.41E-01	< LLD (0 /33 )	< LLD (0 /19 )	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	MO-99	41	4.86E-01	< LLD (0 /26 )	< LLD (0 /15 )	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	ZRNB-95	52	6.38E-03	< LLD (0 /33 )	< LLD (0 /19 )	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CS-134	52	4.88E-03	< LLD (0 /33 )	< LLD (0 /19 )	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CO-58	52	6.05E-03	< LLD (0 /33 )	< LLD (0 /19 )	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	MN-54	52	5.52E-03	< LLD (0 /33 )	< LLD (0 /19 )	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	TH-232	52	1.89E-02	< LLD (0 /33 )	< LLD (0 /19 )	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	FE-59	52	1.37E-02	< LLD (0 /33 )	< LLD (0 /19 )	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CS-136	52	1.41E-02	< LLD (0 /33 )	< LLD (0 /19 )	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	ZN-65	52	1.18E-02	< LLD (0 /33 )	< LLD (0 /19 )	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CO-60	52	7.36E-03	< LLD (0 /33 )	< LLD (0 /19 )	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	K-40	52	9.20E-02	< LLD (0 /33 )	1.01E-01(2 /19 ) ( 8.30E-02 - 1.20E-01)	1 2 3 4 5

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SAMPLE TYPE	ANALYSIS	ISOTOPE NUMBER	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE		STATIONS USED FOR INDICATOR MEAN				
								1	2	3	4	5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	BALA-140	52	1.77E-02	< LLD (0 /33)	< LLD	(0 /19)	1	2	3	4	5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	BE-7	52	6.88E-02	1.10E-01 (14 /33) ( 6.20E-02 - 1.50E-01)	8.59E-02(11 /19)	( 2.80E-02 - 1.50E-01)	1	2	3	4	5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	SB-125	52	1.49E-02	< LLD (0 /33)	< LLD	(0 /19)	1	2	3	4	5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CE-141	51	1.23E-02	< LLD (0 /32)	< LLD	(0 /19)	1	2	3	4	5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	RU-103	52	7.09E-03	< LLD (0 /33)	< LLD	(0 /19)	1	2	3	4	5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CR-51	52	6.89E-02	< LLD (0 /33)	< LLD	(0 /19)	1	2	3	4	5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	RA-226	52	1.19E-02	< LLD (0 /33)	< LLD	(0 /19)	1	2	3	4	5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	I-131	51	2.84E-02	< LLD (0 /32)	< LLD	(0 /19)	1	2	3	4	5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	NP-239	19	7.70E+01	< LLD (0 /11)	< LLD	(0 /8)	1	2	3	4	5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	RU-106	52	4.71E-02	< LLD (0 /33)	< LLD	(0 /19)	1	2	3	4	5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CO-57	52	4.38E-03	< LLD (0 /33)	< LLD	(0 /19)	1	2	3	4	5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CS-137	52	5.57E-03	< LLD (0 /33)	< LLD	(0 /19)	1	2	3	4	5

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL)		BACKGROUND-MEAN(N/TOTAL)		STATIONS USED FOR INDICATOR MEAN				
					RANGE		RANGE		1	2	3	4	5
PRECIPITATION (PCI/L)	GELI GAMMA	CE-144	8	8.34E+01	< LLD	(0 / 5 )	< LLD	(0 / 3 )	1	2	3	4	5
PRECIPITATION (PCI/L)	GELI GAMMA	AG-110M	8	9.15E+00	< LLD	(0 / 5 )	< LLD	(0 / 3 )	1	2	3	4	5
PRECIPITATION (PCI/L)	GELI GAMMA	TE-129M	8	3.96E+02	< LLD	(0 / 5 )	< LLD	(0 / 3 )	1	2	3	4	5
PRECIPITATION (PCI/L)	GELI GAMMA	MO-99	8	5.24E+02	< LLD	(0 / 5 )	< LLD	(0 / 3 )	1	2	3	4	5
PRECIPITATION (PCI/L)	GELI GAMMA	CS-134	8	8.72E+00	< LLD	(0 / 5 )	< LLD	(0 / 3 )	1	2	3	4	5
PRECIPITATION (PCI/L)	GELI GAMMA	CO-58	8	9.89E+00	< LLD	(0 / 5 )	< LLD	(0 / 3 )	1	2	3	4	5
PRECIPITATION (PCI/L)	GELI GAMMA	MN-54	8	8.76E+00	< LLD	(0 / 5 )	< LLD	(0 / 3 )	1	2	3	4	5
PRECIPITATION (PCI/L)	GELI GAMMA	TH-232	8	2.99E+01	< LLD	(0 / 5 )	< LLD	(0 / 3 )	1	2	3	4	5
PRECIPITATION (PCI/L)	GELI GAMMA	FE-59	8	1.85E+01	< LLD	(0 / 5 )	< LLD	(0 / 3 )	1	2	3	4	5
PRECIPITATION (PCI/L)	GELI GAMMA	CS-136	8	1.89E+01	< LLD	(0 / 5 )	< LLD	(0 / 3 )	1	2	3	4	5
PRECIPITATION (PCI/L)	GELI GAMMA	ZN-65	8	1.69E+01	< LLD	(0 / 5 )	< LLD	(0 / 3 )	1	2	3	4	5
PRECIPITATION (PCI/L)	GELI GAMMA	CO-60	8	7.89E+00	< LLD	(0 / 5 )	< LLD	(0 / 3 )	1	2	3	4	5



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PRECIPITATION (PCI/L)	GELI GAMMA	K-40	8	6.90E+01	< LLD (0 /5 )	< LLD (0 /3 )	1 2 3 4 5
PRECIPITATION (PCI/L)	GELI GAMMA	BALA-140	8	1.67E+01	< LLD (0 /5 )	< LLD (0 /3 )	1 2 3 4 5
PRECIPITATION (PCI/L)	GELI GAMMA	BE-7	8	9.92E+01	< LLD (0 /5 )	< LLD (0 /3 )	1 2 3 4 5
PRECIPITATION (PCI/L)	GELI GAMMA	ZR-95	8	1.85E+01	< LLD (0 /5 )	< LLD (0 /3 )	1 2 3 4 5
PRECIPITATION (PCI/L)	GELI GAMMA	NB-95	8	1.17E+01	< LLD (0 /5 )	< LLD (0 /3 )	1 2 3 4 5
PRECIPITATION (PCI/L)	GELI GAMMA	SB-125	8	2.91E+01	< LLD (0 /5 )	< LLD (0 /3 )	1 2 3 4 5
PRECIPITATION (PCI/L)	GELI GAMMA	CE-141	8	2.41E+01	< LLD (0 /5 )	< LLD (0 /3 )	1 2 3 4 5
PRECIPITATION (PCI/L)	GELI GAMMA	RU-103	8	1.25E+01	< LLD (0 /5 )	< LLD (0 /3 )	1 2 3 4 5
PRECIPITATION (PCI/L)	GELI GAMMA	CR-51	8	1.22E+02	< LLD (0 /5 )	< LLD (0 /3 )	1 2 3 4 5
PRECIPITATION (PCI/L)	GELI GAMMA	RA-226	8	1.82E+01	< LLD (0 /5 )	< LLD (0 /3 )	1 2 3 4 5
PRECIPITATION (PCI/L)	GELI GAMMA	I-131	8	3.81E+01	< LLD (0 /5 )	< LLD (0 /3 )	1 2 3 4 5
PRECIPITATION (PCI/L)	GELI GAMMA	NP-239	6	1.67E+05	< LLD (0 /5 )	< LLD (0 /1 )	1 2 3 4 5

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					RANGE		RANGE		1	2	3	4	5
PRECIPITATION (PCI/L )	GELI GAMMA	RU-106	8	9.02E+01	< LLD	(0 /5 )	< LLD	(0 /3 )	1	2	3	4	5
PRECIPITATION (PCI/L )	GELI GAMMA	CO-57	8	1.09E+01	< LLD	(0 /5 )	< LLD	(0 /3 )	1	2	3	4	5
PRECIPITATION (PCI/L )	GELI GAMMA	CS-137	8	9.37E+00	< LLD	(0 /5 )	< LLD	(0 /3 )	1	2	3	4	5
PRECIPITATION (PCI/L )	NAI GAMMA	CE-144	16	5.85E+01	< LLD	(0 /10 )	< LLD	(0 /6 )	1	2	3	4	5
PRECIPITATION (PCI/L )	NAI GAMMA	AG-110M	16	5.26E+00	< LLD	(0 /10 )	< LLD	(0 /6 )	1	2	3	4	5
PRECIPITATION (PCI/L )	NAI GAMMA	TE-129M	16	1.14E+02	< LLD	(0 /10 )	< LLD	(0 /6 )	1	2	3	4	5
PRECIPITATION (PCI/L )	NAI GAMMA	MO-99	16	2.36E+03	< LLD	(0 /10 )	< LLD	(0 /6 )	1	2	3	4	5
PRECIPITATION (PCI/L )	NAI GAMMA	ZRNB-95	16	5.76E+00	< LLD	(0 /10 )	< LLD	(0 /6 )	1	2	3	4	5
PRECIPITATION (PCI/L )	NAI GAMMA	CS-134	16	5.01E+00	< LLD	(0 /10 )	< LLD	(0 /6 )	1	2	3	4	5
PRECIPITATION (PCI/L )	NAI GAMMA	CO-58	16	5.68E+00	< LLD	(0 /10 )	< LLD	(0 /6 )	1	2	3	4	5
PRECIPITATION (PCI/L )	NAI GAMMA	MN-54	16	5.04E+00	< LLD	(0 /10 )	< LLD	(0 /6 )	1	2	3	4	5
PRECIPITATION (PCI/L )	NAI GAMMA	TH-232	16	2.15E+01	< LLD	(0 /10 )	< LLD	(0 /6 )	1	2	3	4	5

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL)		BACKGROUND-MEAN(N/TOTAL)		STATIONS USED FOR INDICATOR MEAN				
					RANGE		RANGE						
PRECIPITATION (PCI/L)	NAI GAMMA	FE-59	16	1.21E+01	< LLD	(0 /10 )	< LLD	(0 /6 )	1	2	3	4	5
PRECIPITATION (PCI/L)	NAI GAMMA	CS-136	16	1.60E+01	< LLD	(0 /10 )	< LLD	(0 /6 )	1	2	3	4	5
PRECIPITATION (PCI/L)	NAI GAMMA	TE-132	16	2.24E+02	< LLD	(0 /10 )	< LLD	(0 /6 )	1	2	3	4	5
PRECIPITATION (PCI/L)	NAI GAMMA	ZN-65	16	1.09E+01	< LLD	(0 /10 )	< LLD	(0 /6 )	1	2	3	4	5
PRECIPITATION (PCI/L)	NAI GAMMA	CO-60	16	5.47E+00	< LLD	(0 /10 )	< LLD	(0 /6 )	1	2	3	4	5
PRECIPITATION (PCI/L)	NAI GAMMA	K-40	16	5.93E+01	< LLD	(0 /10 )	< LLD	(0 /6 )	1	2	3	4	5
PRECIPITATION (PCI/L)	NAI GAMMA	BALA-140	16	1.34E+01	< LLD	(0 /10 )	< LLD	(0 /6 )	1	2	3	4	5
PRECIPITATION (PCI/L)	NAI GAMMA	BE-7	16	6.08E+01	< LLD	(0 /10 )	< LLD	(0 /6 )	1	2	3	4	5
PRECIPITATION (PCI/L)	NAI GAMMA	CR-51	16	7.29E+01	< LLD	(0 /10 )	< LLD	(0 /6 )	1	2	3	4	5
PRECIPITATION (PCI/L)	NAI GAMMA	RA-226	16	1.01E+01	< LLD	(0 /10 )	< LLD	(0 /6 )	1	2	3	4	5
PRECIPITATION (PCI/L)	NAI GAMMA	I-131	16	2.55E+01	< LLD	(0 /10 )	< LLD	(0 /6 )	1	2	3	4	5
PRECIPITATION (PCI/L)	NAI GAMMA	NA-22	16	5.40E+00	< LLD	(0 /10 )	< LLD	(0 /6 )	1	2	3	4	5

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL)		BACKGROUND-MEAN(N/TOTAL)		STATIONS USED FOR INDICATOR MEAN				
					RANGE		RANGE		1	2	3	4	5
PRECIPITATION (PCI/L)	NAI GAMMA	RU-106	16	5.09E+01	< LLD	(0 /10 )	< LLD	(0 /6 )	1	2	3	4	5
PRECIPITATION (PCI/L)	NAI GAMMA	I-133	16	6.15E+00	< LLD	(0 /10 )	< LLD	(0 /6 )	1	2	3	4	5
PRECIPITATION (PCI/L)	NAI GAMMA	CS-137	16	5.94E+00	< LLD	(0 /10 )	< LLD	(0 /6 )	1	2	3	4	5
CABBAGE (PCI/KG(WET))	NAI GAMMA	CE-144	2	4.85E+01	< LLD	(0 /1 )	< LLD	(0 /1 )	1				
CABBAGE (PCI/KG(WET))	NAI GAMMA	AG-110M	2	1.20E+01	< LLD	(0 /1 )	< LLD	(0 /1 )	1				
CABBAGE (PCI/KG(WET))	NAI GAMMA	TE-129M	2	2.20E+02	< LLD	(0 /1 )	< LLD	(0 /1 )	1				
CABBAGE (PCI/KG(WET))	NAI GAMMA	MO-99	2	5.35E+03	< LLD	(0 /1 )	< LLD	(0 /1 )	1				
CABBAGE (PCI/KG(WET))	NAI GAMMA	ZRNB-95	2	1.40E+01	< LLD	(0 /1 )	< LLD	(0 /1 )	1				
CABBAGE (PCI/KG(WET))	NAI GAMMA	CS-134	2	1.25E+01	< LLD	(0 /1 )	< LLD	(0 /1 )	1				
CABBAGE (PCI/KG(WET))	NAI GAMMA	CO-58	2	1.35E+01	< LLD	(0 /1 )	< LLD	(0 /1 )	1				
CABBAGE (PCI/KG(WET))	NAI GAMMA	MN-54	2	1.30E+01	< LLD	(0 /1 )	< LLD	(0 /1 )	1				
CABBAGE (PCI/KG(WET))	NAI GAMMA	TH-232	2	4.70E+01	< LLD	(0 /1 )	< LLD	(0 /1 )	1				

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CABBAGE (PCI/KG(WET))	NAI GAMMA	FE-59	2	3.00E+01	< LLD (0 /1 )	< LLD (0 /1 )	1
CABBAGE (PCI/KG(WET))	NAI GAMMA	CS-136	2	3.65E+01	< LLD (0 /1 )	< LLD (0 /1 )	1
CABBAGE (PCI/KG(WET))	NAI GAMMA	TE-132	2	2.55E+02	< LLD (0 /1 )	< LLD (0 /1 )	1
CABBAGE (PCI/KG(WET))	NAI GAMMA	ZN-65	2	3.25E+01	< LLD (0 /1 )	< LLD (0 /1 )	1
CABBAGE (PCI/KG(WET))	NAI GAMMA	CO-60	2	1.25E+01	< LLD (0 /1 )	< LLD (0 /1 )	1
CABBAGE (PCI/KG(WET))	NAI GAMMA	K-40	2	3.10E+02	1.80E+03 (1 /1 ) ( 1.80E+03 - 1.80E+03)	2.50E+03 (1 /1 ) ( 2.50E+03 - 2.50E+03)	1
CABBAGE (PCI/KG(WET))	NAI GAMMA	BALA-140	2	2.85E+01	< LLD (0 /1 )	< LLD (0 /1 )	1
CABBAGE (PCI/KG(WET))	NAI GAMMA	BE-7	2	1.15E+02	< LLD (0 /1 )	< LLD (0 /1 )	1
CABBAGE (PCI/KG(WET))	NAI GAMMA	CR-51	2	1.15E+02	< LLD (0 /1 )	< LLD (0 /1 )	1
CABBAGE (PCI/KG(WET))	NAI GAMMA	RA-226	2	2.35E+01	< LLD (0 /1 )	< LLD (0 /1 )	1
CABBAGE (PCI/KG(WET))	NAI GAMMA	I-131	2	4.10E+01	< LLD (0 /1 )	< LLD (0 /1 )	1
CABBAGE (PCI/KG(WET))	NAI GAMMA	NA-22	2	1.35E+01	< LLD (0 /1 )	< LLD (0 /1 )	1

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CABBAGE (PCI/KG(WET))	NAI GAMMA	RU-106	2	1.13E+02	< LLD (0 / 1 )	1
CABBAGE (PCI/KG(WET))	NAI GAMMA	I-133	2	1.25E+01	< LLD (0 / 1 )	1
CABBAGE (PCI/KG(WET))	NAI GAMMA	CS-137	2	1.25E+01	< LLD (0 / 1 )	1
CORN (PCI/KG(WET))	NAI GAMMA	CE-144	5	9.62E+01	< LLD (0 / 4 )	1 2 3 4
CORN (PCI/KG(WET))	NAI GAMMA	AG-110M	5	1.92E+01	< LLD (0 / 4 )	1 2 3 4
CORN (PCI/KG(WET))	NAI GAMMA	TE-129M	5	4.20E+02	< LLD (0 / 4 )	1 2 3 4
CORN (PCI/KG(WET))	NAI GAMMA	MO-99	5	6.12E+03	< LLD (0 / 4 )	1 2 3 4
CORN (PCI/KG(WET))	NAI GAMMA	ZRNB-95	5	2.54E+01	< LLD (0 / 4 )	1 2 3 4
CORN (PCI/KG(WET))	NAI GAMMA	CS-134	5	1.90E+01	< LLD (0 / 4 )	1 2 3 4
CORN (PCI/KG(WET))	NAI GAMMA	CO-58	5	2.16E+01	< LLD (0 / 4 )	1 2 3 4
CORN (PCI/KG(WET))	NAI GAMMA	MN-54	5	2.24E+01	< LLD (0 / 4 )	1 2 3 4
CORN (PCI/KG(WET))	NAI GAMMA	TH-232	5	8.38E+01	< LLD (0 / 4 )	1 2 3 4

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					RANGE		RANGE		1	2	3	4
CORN (PCI/KG(WET))	NAI GAMMA	FE-59	5	5.90E+01	< LLD	( 0 / 4 )	< LLD	( 0 / 1 )	1	2	3	4
CORN (PCI/KG(WET))	NAI GAMMA	CS-136	5	6.88E+01	< LLD	( 0 / 4 )	< LLD	( 0 / 1 )	1	2	3	4
CORN (PCI/KG(WET))	NAI GAMMA	TE-132	5	3.78E+02	< LLD	( 0 / 4 )	< LLD	( 0 / 1 )	1	2	3	4
CORN (PCI/KG(WET))	NAI GAMMA	ZN-65	5	5.86E+01	< LLD	( 0 / 4 )	< LLD	( 0 / 1 )	1	2	3	4
CORN (PCI/KG(WET))	NAI GAMMA	CO-60	5	2.50E+01	< LLD	( 0 / 4 )	< LLD	( 0 / 1 )	1	2	3	4
CORN (PCI/KG(WET))	NAI GAMMA	K-40	5	4.70E+02	( 2.90E+03 ( 4 / 4 ) ( 2.40E+03 - 3.40E+03 )		3.30E+03( 1 / 1 ) ( 3.30E+03 - 3.30E+03 )		1	2	3	4
CORN (PCI/KG(WET))	NAI GAMMA	BALA-140	5	6.28E+01	< LLD	( 0 / 4 )	< LLD	( 0 / 1 )	1	2	3	4
CORN (PCI/KG(WET))	NAI GAMMA	BE-7	5	1.88E+02	< LLD	( 0 / 4 )	< LLD	( 0 / 1 )	1	2	3	4
CORN (PCI/KG(WET))	NAI GAMMA	CR-51	5	2.10E+02	< LLD	( 0 / 4 )	< LLD	( 0 / 1 )	1	2	3	4
CORN (PCI/KG(WET))	NAI GAMMA	RA-226	5	3.74E+01	< LLD	( 0 / 4 )	< LLD	( 0 / 1 )	1	2	3	4
CORN (PCI/KG(WET))	NAI GAMMA	I-131	5	5.62E+01	< LLD	( 0 / 4 )	< LLD	( 0 / 1 )	1	2	3	4
CORN (PCI/KG(WET))	NAI GAMMA	NA-22	5	2.50E+01	< LLD	( 0 / 4 )	< LLD	( 0 / 1 )	1	2	3	4

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE		BACKGROUND-MEAN(N/TOTAL) RANGE		STATIONS USED FOR INDICATOR MEAN			
CORN (PCI/KG(WET))	NAI GAMMA	RU-106	5	1.92E+02	< LLD	(0 / 4 )	< LLD	(0 / 1 )	1	2	3	4
CORN (PCI/KG(WET))	NAI GAMMA	I-133	5	2.50E+01	< LLD	(0 / 4 )	< LLD	(0 / 1 )	1	2	3	4
CORN (PCI/KG(WET))	NAI GAMMA	CS-137	5	2.20E+01	< LLD	(0 / 4 )	< LLD	(0 / 1 )	1	2	3	4
CUCUMBERS (PCI/KG(WET))	NAI GAMMA	CE-144	1	1.60E+01	< LLD	(0 / 1 )	( . . - . / . )					5
CUCUMBERS (PCI/KG(WET))	NAI GAMMA	AG-110M	1	6.50E+00	< LLD	(0 / 1 )	( . . - . / . )					5
CUCUMBERS (PCI/KG(WET))	NAI GAMMA	TE-129M	1	1.30E+02	< LLD	(0 / 1 )	( . . - . / . )					5
CUCUMBERS (PCI/KG(WET))	NAI GAMMA	MO-99	1	2.40E+03	< LLD	(0 / 1 )	( . . - . / . )					5
CUCUMBERS (PCI/KG(WET))	NAI GAMMA	ZRNB-95	1	7.30E+00	< LLD	(0 / 1 )	( . . - . / . )					5
CUCUMBERS (PCI/KG(WET))	NAI GAMMA	CS-134	1	6.30E+00	< LLD	(0 / 1 )	( . . - . / . )					5
CUCUMBERS (PCI/KG(WET))	NAI GAMMA	CO-58	1	7.20E+00	< LLD	(0 / 1 )	( . . - . / . )					5
CUCUMBERS (PCI/KG(WET))	NAI GAMMA	MN-54	1	6.40E+00	< LLD	(0 / 1 )	( . . - . / . )					5
CUCUMBERS (PCI/KG(WET))	NAI GAMMA	TH-232	1	3.10E+01	< LLD	(0 / 1 )	( . . - . / . )					5



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SAMPLE TYPE	ANALYSIS	ISOTOPE NUMBER	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
CUCUMBERS (PCI/KG(WET))	NAI GAMMA	FE-59	1	1.80E+01	< LLD (0 / 1)	( . . - . / . )	5
CUCUMBERS (PCI/KG(WET))	NAI GAMMA	CS-136	1	2.20E+01	< LLD (0 / 1)	( . . - . / . )	5
CUCUMBERS (PCI/KG(WET))	NAI GAMMA	TE-132	1	9.00E+01	< LLD (0 / 1)	( . . - . / . )	5
CUCUMBERS (PCI/KG(WET))	NAI GAMMA	ZN-65	1	1.60E+01	< LLD (0 / 1)	( . . - . / . )	5
CUCUMBERS (PCI/KG(WET))	NAI GAMMA	CO-60	1	6.20E+00	< LLD (0 / 1)	( . . - . / . )	5
CUCUMBERS (PCI/KG(WET))	NAI GAMMA	K-40	1	1.60E+02	1.40E+03 (1 / 1) ( 1.40E+03 - 1.40E+03)	( . . - . / . )	5
CUCUMBERS (PCI/KG(WET))	NAI GAMMA	BALA-140	1	1.50E+01	< LLD (0 / 1)	( . . - . / . )	5
CUCUMBERS (PCI/KG(WET))	NAI GAMMA	BE-7	1	5.70E+01	< LLD (0 / 1)	( . . - . / . )	5
CUCUMBERS (PCI/KG(WET))	NAI GAMMA	CR-51	1	4.60E+01	< LLD (0 / 1)	( . . - . / . )	5
CUCUMBERS (PCI/KG(WET))	NAI GAMMA	RA-226	1	1.10E+01	< LLD (0 / 1)	( . . - . / . )	5
CUCUMBERS (PCI/KG(WET))	NAI GAMMA	I-131	1	1.80E+01	< LLD (0 / 1)	( . . - . / . )	5
CUCUMBERS (PCI/KG(WET))	NAI GAMMA	NA-22	1	6.30E+00	< LLD (0 / 1)	( . . - . / . )	5

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CUCUMBERS (PCI/KG(WET))	NAI GAMMA	RU-106	1	6.40E+01	< LLD	( 0 / 1 )	( . . - . / . )	5				
CUCUMBERS (PCI/KG(WET))	NAI GAMMA	I-133	1	6.20E+00	< LLD	( 0 / 1 )	( . . - . / . )	5				
CUCUMBERS (PCI/KG(WET))	NAI GAMMA	CS-137	1	6.20E+00	< LLD	( 0 / 1 )	( . . - . / . )	5				
SURFACE WATER (PCI/L )	NAI GAMMA	CE-144	24	6.30E+01	< LLD	( 0 / 21 )	< LLD ( 0 / 3 )	23	24	25	26	27
								32	33			
SURFACE WATER (PCI/L )	NAI GAMMA	AG-110M	24	6.08E+00	< LLD	( 0 / 21 )	< LLD ( 0 / 3 )	23	24	25	26	27
								32	33			
SURFACE WATER (PCI/L )	NAI GAMMA	TE-129M	24	1.18E+02	< LLD	( 0 / 21 )	< LLD ( 0 / 3 )	23	24	25	26	27
								32	33			
SURFACE WATER (PCI/L )	NAI GAMMA	MO-99	24	8.38E+02	< LLD	( 0 / 21 )	< LLD ( 0 / 3 )	23	24	25	26	27
								32	33			
SURFACE WATER (PCI/L )	NAI GAMMA	ZRNB-95	24	6.52E+00	< LLD	( 0 / 21 )	< LLD ( 0 / 3 )	23	24	25	26	27
								32	33			
SURFACE WATER (PCI/L )	NAI GAMMA	CS-134	24	5.97E+00	< LLD	( 0 / 21 )	< LLD ( 0 / 3 )	23	24	25	26	27
								32	33			
SURFACE WATER (PCI/L )	NAI GAMMA	CO-58	24	6.55E+00	< LLD	( 0 / 21 )	< LLD ( 0 / 3 )	23	24	25	26	27
								32	33			
SURFACE WATER (PCI/L )	NAI GAMMA	MN-54	24	6.05E+00	< LLD	( 0 / 21 )	< LLD ( 0 / 3 )	23	24	25	26	27
								32	33			
SURFACE WATER (PCI/L )	NAI GAMMA	TH-232	24	2.29E+01	< LLD	( 0 / 21 )	< LLD ( 0 / 3 )	23	24	25	26	27
								32	33			

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SURFACE WATER (PCI/L)	NAI GAMMA	FE-59	24	1.31E+01	< LLD	(0 /21 )	< LLD	(0 /3 )	23	24	25	26	27
									32	33			
SURFACE WATER (PCI/L)	NAI GAMMA	CS-136	24	1.48E+01	< LLD	(0 /21 )	< LLD	(0 /3 )	23	24	25	26	27
									32	33			
SURFACE WATER (PCI/L)	NAI GAMMA	TE-132	24	1.84E+02	< LLD	(0 /21 )	< LLD	(0 /3 )	23	24	25	26	27
									32	33			
SURFACE WATER (PCI/L)	NAI GAMMA	ZN-65	24	1.29E+01	< LLD	(0 /21 )	< LLD	(0 /3 )	23	24	25	26	27
									32	33			
SURFACE WATER (PCI/L)	NAI GAMMA	CO-60	24	6.22E+00	< LLD	(0 /21 )	< LLD	(0 /3 )	23	24	25	26	27
									32	33			
SURFACE WATER (PCI/L)	NAI GAMMA	K-40	24	9.02E+01	2.26E+02 (15 /21 ) ( 1.10E+02 - 3.30E+02)		3.30E+02(3 /3 ) ( 2.30E+02 - 3.90E+02)		23	24	25	26	27
									32	33			
SURFACE WATER (PCI/L)	NAI GAMMA	BALA-140	24	1.20E+01	< LLD	(0 /21 )	< LLD	(0 /3 )	23	24	25	26	27
									32	33			
SURFACE WATER (PCI/L)	NAI GAMMA	BE-7	24	6.57E+01	< LLD	(0 /21 )	< LLD	(0 /3 )	23	24	25	26	27
									32	33			
SURFACE WATER (PCI/L)	NAI GAMMA	CR-51	24	7.66E+01	< LLD	(0 /21 )	< LLD	(0 /3 )	23	24	25	26	27
									32	33			
SURFACE WATER (PCI/L)	NAI GAMMA	RA-226	24	1.14E+01	< LLD	(0 /21 )	< LLD	(0 /3 )	23	24	25	26	27
									32	33			
SURFACE WATER (PCI/L)	NAI GAMMA	I-131	24	2.06E+01	< LLD	(0 /21 )	< LLD	(0 /3 )	23	24	25	26	27
									32	33			
SURFACE WATER (PCI/L)	NAI GAMMA	NA-22	24	6.35E+00	< LLD	(0 /21 )	< LLD	(0 /3 )	23	24	25	26	27
									32	33			

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SURFACE WATER (PCI/L )	NAI GAMMA	RU-106	24	5.97E+01	< LLD	( 0 /21 )	< LLD	( 0 /3 )	23	24	25	26	27
									32	33			
SURFACE WATER (PCI/L )	NAI GAMMA	I-133	24	7.01E+00	< LLD	( 0 /21 )	< LLD	( 0 /3 )	23	24	25	26	27
									32	33			
SURFACE WATER (PCI/L )	NAI GAMMA	CS-137	24	6.35E+00	< LLD	( 0 /21 )	< LLD	( 0 /3 )	23	24	25	26	27
									32	33			
GREEN BEANS (PCI/KG(WET))	NAI GAMMA	CE-144	2	6.50E+01	( . - . )	( . / . )	< LLD	( 0 /2 )					
GREEN BEANS (PCI/KG(WET))	NAI GAMMA	AG-110M	2	1.55E+01	( . - . )	( . / . )	< LLD	( 0 /2 )					
GREEN BEANS (PCI/KG(WET))	NAI GAMMA	TE-129M	2	3.35E+02	( . - . )	( . / . )	< LLD	( 0 /2 )					
GREEN BEANS (PCI/KG(WET))	NAI GAMMA	MO-99	2	8.65E+03	( . - . )	( . / . )	< LLD	( 0 /2 )					
GREEN BEANS (PCI/KG(WET))	NAI GAMMA	ZRNB-95	2	1.80E+01	( . - . )	( . / . )	< LLD	( 0 /2 )					
GREEN BEANS (PCI/KG(WET))	NAI GAMMA	CS-134	2	1.50E+01	( . - . )	( . / . )	< LLD	( 0 /2 )					
GREEN BEANS (PCI/KG(WET))	NAI GAMMA	CO-58	2	1.75E+01	( . - . )	( . / . )	< LLD	( 0 /2 )					
GREEN BEANS (PCI/KG(WET))	NAI GAMMA	MN-54	2	1.60E+01	( . - . )	( . / . )	< LLD	( 0 /2 )					
GREEN BEANS (PCI/KG(WET))	NAI GAMMA	TH-232	2	7.00E+01	( . - . )	( . / . )	< LLD	( 0 /2 )					

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SAMPLE TYPE	ANALYSIS	ISOTOPE NUMBER	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
		OF ANALYSES PERFORMED				
GREEN BEANS (PCI/KG(WET))	NAI GAMMA	FE-59	2	4.05E+01 ( . . . )	< LLD (0 / 2 )	
GREEN BEANS (PCI/KG(WET))	NAI GAMMA	CS-136	2	5.95E+01 ( . . . )	< LLD (0 / 2 )	
GREEN BEANS (PCI/KG(WET))	NAI GAMMA	TE-132	2	4.60E+02 ( . . . )	< LLD (0 / 2 )	
GREEN BEANS (PCI/KG(WET))	NAI GAMMA	ZN-65	2	4.10E+01 ( . . . )	< LLD (0 / 2 )	
GREEN BEANS (PCI/KG(WET))	NAI GAMMA	CO-60	2	1.60E+01 ( . . . )	< LLD (0 / 2 )	
GREEN BEANS (PCI/KG(WET))	NAI GAMMA	K-40	2	3.10E+02 ( . . . )	1.80E+03(2 / 2 ) ( 1.70E+03 - 1.90E+03 )	
GREEN BEANS (PCI/KG(WET))	NAI GAMMA	BALA-140	2	4.00E+01 ( . . . )	< LLD (0 / 2 )	
GREEN BEANS (PCI/KG(WET))	NAI GAMMA	BE-7	2	1.70E+02 ( . . . )	< LLD (0 / 2 )	
GREEN BEANS (PCI/KG(WET))	NAI GAMMA	CR-51	2	1.70E+02 ( . . . )	< LLD (0 / 2 )	
GREEN BEANS (PCI/KG(WET))	NAI GAMMA	RA-226	2	3.10E+01 ( . . . )	< LLD (0 / 2 )	
GREEN BEANS (PCI/KG(WET))	NAI GAMMA	I-131	2	6.30E+01 ( . . . )	< LLD (0 / 2 )	
GREEN BEANS (PCI/KG(WET))	NAI GAMMA	NA-22	2	1.60E+01 ( . . . )	< LLD (0 / 2 )	

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GREEN BEANS (PCI/KG(WET))	NAI GAMMA	RU-106	2	1.50E+02	( . . . )	< LLD (0 / 2 )	
GREEN BEANS (PCI/KG(WET))	NAI GAMMA	I-133	2	1.60E+01	( . . . )	< LLD (0 / 2 )	
GREEN BEANS (PCI/KG(WET))	NAI GAMMA	CS-137	2	1.60E+01	( . . . )	< LLD (0 / 2 )	
TOMATOES (PCI/KG(WET))	NAI GAMMA	CE-144	6	2.42E+01	< LLD (0 / 4 )	< LLD (0 / 2 )	2 3 4 5
TOMATOES (PCI/KG(WET))	NAI GAMMA	AG-110M	6	8.97E+00	< LLD (0 / 4 )	< LLD (0 / 2 )	2 3 4 5
TOMATOES (PCI/KG(WET))	NAI GAMMA	TE-129M	6	1.68E+02	< LLD (0 / 4 )	< LLD (0 / 2 )	2 3 4 5
TOMATOES (PCI/KG(WET))	NAI GAMMA	MO-99	6	3.10E+03	< LLD (0 / 4 )	< LLD (0 / 2 )	2 3 4 5
TOMATOES (PCI/KG(WET))	NAI GAMMA	ZRNB-95	6	1.04E+01	< LLD (0 / 4 )	< LLD (0 / 2 )	2 3 4 5
TOMATOES (PCI/KG(WET))	NAI GAMMA	CS-134	6	9.23E+00	< LLD (0 / 4 )	< LLD (0 / 2 )	2 3 4 5
TOMATOES (PCI/KG(WET))	NAI GAMMA	CO-58	6	1.05E+01	< LLD (0 / 4 )	< LLD (0 / 2 )	2 3 4 5
TOMATOES (PCI/KG(WET))	NAI GAMMA	MN-54	6	9.35E+00	< LLD (0 / 4 )	< LLD (0 / 2 )	2 3 4 5
TOMATOES (PCI/KG(WET))	NAI GAMMA	TH-232	6	3.88E+01	< LLD (0 / 4 )	< LLD (0 / 2 )	2 3 4 5

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TOMATOES (PCI/KG(WET))	NAI GAMMA	FE-59	6	2.32E+01	< LLD (0 /4 )	< LLD (0 /2 )	2 3 4 5
TOMATOES (PCI/KG(WET))	NAI GAMMA	CS-136	6	2.73E+01	< LLD (0 /4 )	< LLD (0 /2 )	2 3 4 5
TOMATOES (PCI/KG(WET))	NAI GAMMA	TE-132	6	1.51E+02	< LLD (0 /4 )	< LLD (0 /2 )	2 3 4 5
TOMATOES (PCI/KG(WET))	NAI GAMMA	ZN-65	6	2.42E+01	< LLD (0 /4 )	< LLD (0 /2 )	2 3 4 5
TOMATOES (PCI/KG(WET))	NAI GAMMA	CO-60	6	9.45E+00	< LLD (0 /4 )	< LLD (0 /2 )	2 3 4 5
TOMATOES (PCI/KG(WET))	NAI GAMMA	K-40	6	2.10E+02	2.02E+03 (4 /4 ) ( 1.80E+03 - 2.40E+03)	2.15E+03(2 /2 ) ( 1.80E+03 - 2.50E+03)	2 3 4 5
TOMATOES (PCI/KG(WET))	NAI GAMMA	BALA-140	6	2.15E+01	< LLD (0 /4 )	< LLD (0 /2 )	2 3 4 5
TOMATOES (PCI/KG(WET))	NAI GAMMA	RE-7	6	8.45E+01	< LLD (0 /4 )	< LLD (0 /2 )	2 3 4 5
TOMATOES (PCI/KG(WET))	NAI GAMMA	CR-51	6	7.93E+01	< LLD (0 /4 )	< LLD (0 /2 )	2 3 4 5
TOMATOES (PCI/KG(WET))	NAI GAMMA	RA-226	6	1.62E+01	< LLD (0 /4 )	< LLD (0 /2 )	2 3 4 5
TOMATOES (PCI/KG(WET))	NAI GAMMA	I-131	6	2.72E+01	< LLD (0 /4 )	< LLD (0 /2 )	2 3 4 5
TOMATOES (PCI/KG(WET))	NAI GAMMA	NA-22	6	1.05E+01	< LLD (0 /4 )	< LLD (0 /2 )	2 3 4 5

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TOMATOES (PCI/KG(WET))	NAI GAMMA	RU-106	6	8.30E+01	< LLD	( 0 / 4 )	< LLD	( 0 / 2 )	2	3	4	5		
TOMATOES (PCI/KG(WET))	NAI GAMMA	I-133	6	9.15E+00	< LLD	( 0 / 4 )	< LLD	( 0 / 2 )	2	3	4	5		
TOMATOES (PCI/KG(WET))	NAI GAMMA	CS-137	6	9.70E+00	< LLD	( 0 / 4 )	< LLD	( 0 / 2 )	2	3	4	5		
WELL WATER (PCI/L )	NAI GAMMA	CE-144	6	5.57E+01	< LLD	( 0 / 6 )	( . . - . )	( . / . )	1	18	19	20	21	22
WELL WATER (PCI/L )	NAI GAMMA	AG-110M	6	6.40E+00	< LLD	( 0 / 6 )	( . . - . )	( . / . )	1	18	19	20	21	22
WELL WATER (PCI/L )	NAI GAMMA	TE-129M	6	1.22E+02	< LLD	( 0 / 6 )	( . . - . )	( . / . )	1	18	19	20	21	22
WELL WATER (PCI/L )	NAI GAMMA	MO-99	6	4.25E+02	< LLD	( 0 / 6 )	( . . - . )	( . / . )	1	18	19	20	21	22
WELL WATER (PCI/L )	NAI GAMMA	ZRNB-95	6	6.55E+00	< LLD	( 0 / 6 )	( . . - . )	( . / . )	1	18	19	20	21	22
WELL WATER (PCI/L )	NAI GAMMA	CS-134	6	6.03E+00	< LLD	( 0 / 6 )	( . . - . )	( . / . )	1	18	19	20	21	22
WELL WATER (PCI/L )	NAI GAMMA	CO-58	6	6.53E+00	< LLD	( 0 / 6 )	( . . - . )	( . / . )	1	18	19	20	21	22
WELL WATER (PCI/L )	NAI GAMMA	MN-54	6	6.05E+00	< LLD	( 0 / 6 )	( . . - . )	( . / . )	1	18	19	20	21	22
WELL WATER (PCI/L )	NAI GAMMA	TH-232	6	2.10E+01	< LLD	( 0 / 6 )	( . . - . )	( . / . )	1	18	19	20	21	22



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SAMPLE TYPE	ANALYSIS	ISOTOPE NUMBER	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
WELL WATER (PCI/L)	NAI GAMMA	FE-59	6	1.28E+01	< LLD (0 /6 )	( . - . ( . / . ) )	1 18 19 20 21 22
WELL WATER (PCI/L)	NAI GAMMA	CS-136	6	1.20E+01	< LLD (0 /6 )	( . - . ( . / . ) )	1 18 19 20 21 22
WELL WATER (PCI/L)	NAI GAMMA	TE-132	6	5.22E+01	< LLD (0 /6 )	( . - . ( . / . ) )	1 18 19 20 21 22
WELL WATER (PCI/L)	NAI GAMMA	ZN-65	6	1.33E+01	< LLD (0 /6 )	( . - . ( . / . ) )	1 18 19 20 21 22
WELL WATER (PCI/L)	NAI GAMMA	CO-60	6	6.73E+00	< LLD (0 /6 )	( . - . ( . / . ) )	1 18 19 20 21 22
WELL WATER (PCI/L)	NAI GAMMA	K-40	6	7.50E+01	< LLD (0 /6 )	( . - . ( . / . ) )	1 18 19 20 21 22
WELL WATER (PCI/L)	NAI GAMMA	BALA-140	6	9.88E+00	< LLD (0 /6 )	( . - . ( . / . ) )	1 18 19 20 21 22
WELL WATER (PCI/L)	NAI GAMMA	BE-7	6	6.43E+01	< LLD (0 /6 )	( . - . ( . / . ) )	1 18 19 20 21 22
WELL WATER (PCI/L)	NAI GAMMA	CR-51	6	7.18E+01	< LLD (0 /6 )	( . - . ( . / . ) )	1 18 19 20 21 22
WELL WATER (PCI/L)	NAI GAMMA	RA-226	6	1.17E+01	< LLD (0 /6 )	( . - . ( . / . ) )	1 18 19 20 21 22
WELL WATER (PCI/L)	NAI GAMMA	I-131	6	1.63E+01	< LLD (0 /6 )	( . - . ( . / . ) )	1 18 19 20 21 22
WELL WATER (PCI/L)	NAI GAMMA	NA-22	6	6.53E+00	< LLD (0 /6 )	( . - . ( . / . ) )	1 18 19 20 21 22

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SAMPLE TYPE	ANALYSIS	ISOTOPE NUMBER	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE		BACKGROUND-MEAN(N/TOTAL) RANGE		STATIONS USED FOR INDICATOR MEAN				
WELL WATER (PCI/L)	NAI GAMMA	RU-106	6	5.78E+01	< LLD	(0 /6 )	( . . - . . )	( . . - . . )	1	18	19	20	21
									22				
WELL WATER (PCI/L)	NAI GAMMA	I-133	6	7.53E+00	< LLD	(0 /6 )	( . . - . . )	( . . - . . )	1	18	19	20	21
									22				
WELL WATER (PCI/L)	NAI GAMMA	CS-137	6	7.00E+00	< LLD	(0 /6 )	( . . - . . )	( . . - . . )	1	18	19	20	21
									22				
CLAMS (PCI/KG(WET))	NAI GAMMA	CE-144	4	1.07E+02	< LLD	(0 /3 )	< LLD	(0 /1 )	23	24	25		
CLAMS (PCI/KG(WET))	NAI GAMMA	AG-110M	4	3.30E+01	< LLD	(0 /3 )	< LLD	(0 /1 )	23	24	25		
CLAMS (PCI/KG(WET))	NAI GAMMA	TE-129M	4	7.15E+02	< LLD	(0 /3 )	< LLD	(0 /1 )	23	24	25		
CLAMS (PCI/KG(WET))	NAI GAMMA	MO-99	4	3.30E+04	< LLD	(0 /3 )	< LLD	(0 /1 )	23	24	25		
CLAMS (PCI/KG(WET))	NAI GAMMA	ZRNB-95	4	3.85E+01	< LLD	(0 /3 )	< LLD	(0 /1 )	23	24	25		
CLAMS (PCI/KG(WET))	NAI GAMMA	CS-134	4	3.20E+01	< LLD	(0 /3 )	< LLD	(0 /1 )	23	24	25		
CLAMS (PCI/KG(WET))	NAI GAMMA	CO-58	4	3.80E+01	< LLD	(0 /3 )	< LLD	(0 /1 )	23	24	25		
CLAMS (PCI/KG(WET))	NAI GAMMA	MN-54	4	3.25E+01	< LLD	(0 /3 )	< LLD	(0 /1 )	23	24	25		
CLAMS (PCI/KG(WET))	NAI GAMMA	TH-232	4	1.30E+02	< LLD	(0 /3 )	< LLD	(0 /1 )	23	24	25		

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
CLAMS (PCI/KG(WET))	NAI GAMMA	FE-59	4	9.17E+01	< LLD (0 / 3 )	< LLD (0 / 1 )	23 24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	CS-136	4	1.40E+02	< LLD (0 / 3 )	< LLD (0 / 1 )	23 24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	TE-132	4	1.50E+03	< LLD (0 / 3 )	< LLD (0 / 1 )	23 24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	ZN-65	4	8.22E+01	< LLD (0 / 3 )	< LLD (0 / 1 )	23 24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	CO-60	4	3.90E+01	< LLD (0 / 3 )	< LLD (0 / 1 )	23 24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	K-40	4	4.30E+02	7.80E+02 (3 / 3 ) ( 5.30E+02 - 9.50E+02)	1.00E+03(1 / 1 ) ( 1.00E+03 - 1.00E+03)	23 24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	BALA-140	4	1.17E+02	< LLD (0 / 3 )	< LLD (0 / 1 )	23 24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	BE-7	4	4.05E+02	< LLD (0 / 3 )	< LLD (0 / 1 )	23 24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	CR-51	4	3.22E+02	< LLD (0 / 3 )	< LLD (0 / 1 )	23 24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	RA-226	4	6.20E+01	< LLD (0 / 3 )	< LLD (0 / 1 )	23 24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	I-131	4	1.85E+02	< LLD (0 / 3 )	< LLD (0 / 1 )	23 24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	NA-22	4	3.57E+01	< LLD (0 / 3 )	< LLD (0 / 1 )	23 24 25

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
CLAMS (PCI/KG(WET))	NAI GAMMA	RU-106	4	3.20E+02	< LLD (0 / 3 )	< LLD (0 / 1 )	23 24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	I-133	4	3.90E+01	< LLD (0 / 3 )	< LLD (0 / 1 )	23 24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	CS-137	4	3.50E+01	< LLD (0 / 3 )	< LLD (0 / 1 )	23 24 25
SOIL (PCI/KG(DRY))	GELI GAMMA	CE-144	10	2.26E+02	< LLD (0 / 10 )	( . . - . )	1 2 3 4 5
SOIL (PCI/KG(DRY))	GELI GAMMA	AG-110M	10	7.40E+01	< LLD (0 / 10 )	( . . - . )	1 2 3 4 5
SOIL (PCI/KG(DRY))	GELI GAMMA	TE-129M	10	1.29E+03	< LLD (0 / 10 )	( . . - . )	1 2 3 4 5
SOIL (PCI/KG(DRY))	GELI GAMMA	MO-99	9	2.53E+03	< LLD (0 / 9 )	( . . - . )	1 2 3 4 5
SOIL (PCI/KG(DRY))	GELI GAMMA	ZRNB-95	10	4.13E+01	< LLD (0 / 10 )	( . . - . )	1 2 3 4 5
SOIL (PCI/KG(DRY))	GELI GAMMA	CS-134	10	3.98E+01	< LLD (0 / 10 )	( . . - . )	1 2 3 4 5
SOIL (PCI/KG(DRY))	GELI GAMMA	CO-58	10	3.41E+01	< LLD (0 / 10 )	( . . - . )	1 2 3 4 5
SOIL (PCI/KG(DRY))	GELI GAMMA	MN-54	10	3.15E+01	< LLD (0 / 10 )	( . . - . )	1 2 3 4 5
SOIL (PCI/KG(DRY))	GELI GAMMA	TH-232	10	1.27E+02	3.52E+02 (10 / 10 ) ( 2.00E+02 - 6.50E+02 )	( . . - . )	1 2 3 4 5

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SOIL (PCI/KG(DRY))	GELI GAMMA	FE-59	10	6.86E+01	< LLD (0 /10 )	( . . - . / . )	1 2 3 4 5
SOIL (PCI/KG(DRY))	GELI GAMMA	CS-136	10	7.07E+01	< LLD (0 /10 )	( . . - . / . )	1 2 3 4 5
SOIL (PCI/KG(DRY))	GELI GAMMA	ZN-65	10	8.15E+01	< LLD (0 /10 )	( . . - . / . )	1 2 3 4 5
SOIL (PCI/KG(DRY))	GELI GAMMA	CO-60	10	3.93E+01	6.00E+01 (2 /10 ) ( 6.00E+01 - 6.00E+01)	( . . - . / . )	1 2 3 4 5
SOIL (PCI/KG(DRY))	GELI GAMMA	K-40	10	4.59E+02	1.37E+03 (9 /10 ) ( 7.40E+02 - 2.00E+03)	( . . - . / . )	1 2 3 4 5
SOIL (PCI/KG(DRY))	GELI GAMMA	BALA-140	10	7.49E+01	< LLD (0 /10 )	( . . - . / . )	1 2 3 4 5
SOIL (PCI/KG(DRY))	GELI GAMMA	BE-7	10	5.01E+02	< LLD (0 /10 )	( . . - . / . )	1 2 3 4 5
SOIL (PCI/KG(DRY))	GELI GAMMA	ZR-95	1	2.30E+02	< LLD (0 /1 )	( . . - . / . )	2
SOIL (PCI/KG(DRY))	GELI GAMMA	NB-95	1	7.10E+02	< LLD (0 /1 )	( . . - . / . )	2
SOIL (PCI/KG(DRY))	GELI GAMMA	SB-125	10	9.24E+01	< LLD (0 /10 )	( . . - . / . )	1 2 3 4 5
SOIL (PCI/KG(DRY))	GELI GAMMA	CE-141	10	2.13E+02	< LLD (0 /10 )	( . . - . / . )	1 2 3 4 5
SOIL (PCI/KG(DRY))	GELI GAMMA	RU-103	10	8.69E+01	< LLD (0 /10 )	( . . - . / . )	1 2 3 4 5

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SOIL (PCI/KG(DRY))	GELI GAMMA	CR-51	10	4.07E+02	< LLD (0 /10 )	( . - . )	1 2 3 4 5
SOIL (PCI/KG(DRY))	GELI GAMMA	RA-226	10	8.42E+01	3.57E+02 (10 /10 ) ( 1.70E+02 - 5.80E+02)	( . - . )	1 2 3 4 5
SOIL (PCI/KG(DRY))	GELI GAMMA	I-131	10	1.53E+02	< LLD (0 /10 )	( . - . )	1 2 3 4 5
SOIL (PCI/KG(DRY))	GELI GAMMA	HP-239	5	1.24E+05	< LLD (0 /5 )	( . - . )	1 2 3 4 5
SOIL (PCI/KG(DRY))	GELI GAMMA	RU-106	10	2.81E+02	< LLD (0 /10 )	( . - . )	1 2 3 4 5
SOIL (PCI/KG(DRY))	GELI GAMMA	CO-57	10	2.66E+01	< LLD (0 /10 )	( . - . )	1 2 3 4 5
SOIL (PCI/KG(DRY))	GELI GAMMA	CS-137	10	4.38E+01	4.81E+02 (10 /10 ) ( 8.20E+01 - 1.10E+03)	( . - . )	1 2 3 4 5
PASTURE (PCI/KG(WET))	NAI GAMMA	CE-144	3	1.33E+02	< LLD (0 /3 )	( . - . )	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	AG-110M	3	4.47E+01	< LLD (0 /3 )	( . - . )	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	TE-129M	3	1.40E+03	< LLD (0 /3 )	( . - . )	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	MO-99	3	2.95E+04	< LLD (0 /3 )	( . - . )	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	ZRNB-95	3	5.60E+01	< LLD (0 /3 )	( . - . )	28 29 30

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
PASTURE (PCI/KG(WET))	NAI GAMMA	CS-134	3	4.23E+01	< LLD (0 / 3)	( . - ( . / . ) )	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	CO-58	3	5.47E+01	< LLD (0 / 3)	( . - ( . / . ) )	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	MN-54	3	4.93E+01	< LLD (0 / 3)	( . - ( . / . ) )	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	TH-232	3	1.90E+02	< LLD (0 / 3)	( . - ( . / . ) )	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	FE-59	3	1.43E+02	< LLD (0 / 3)	( . - ( . / . ) )	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	CS-136	3	3.00E+02	< LLD (0 / 3)	( . - ( . / . ) )	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	TE-132	3	1.38E+03	< LLD (0 / 3)	( . - ( . / . ) )	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	ZN-65	3	1.10E+02	< LLD (0 / 3)	( . - ( . / . ) )	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	CO-60	3	4.70E+01	< LLD (0 / 3)	( . - ( . / . ) )	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	K-40	3	8.13E+02	4.00E+03 (2 / 3) ( 3.80E+03 - 4.20E+03)	( . - ( . / . ) )	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	BALA-140	3	3.07E+02	< LLD (0 / 3)	( . - ( . / . ) )	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	BE-7	3	5.30E+02	< LLD (0 / 3)	( . - ( . / . ) )	28 29 30

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
PASTURE (PCI/KG(WET))	NAI GAMMA	CR-51	3	6.43E+02	< LLD (0 / 3 )	( . . - . / . )	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	RA-226	3	8.13E+01	< LLD (0 / 3 )	( . . - . / . )	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	I-131	3	5.57E+02	< LLD (0 / 3 )	( . . - . / . )	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	NA-22	3	5.30E+01	< LLD (0 / 3 )	( . . - . / . )	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	RU-106	3	4.37E+02	< LLD (0 / 3 )	( . . - . / . )	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	I-133	3	4.67E+01	< LLD (0 / 3 )	( . . - . / . )	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	CS-137	3	5.20E+01	< LLD (0 / 3 )	( . . - . / . )	28 29 30
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	CE-144	20	2.17E+02	8.10E+01 (1 / 17 ) ( 8.10E+01 - 8.10E+01 )	< LLD (0 / 3 )	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	AG-110M	20	4.18E+01	< LLD (0 / 17 )	< LLD (0 / 3 )	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	TE-129M	20	1.47E+03	< LLD (0 / 17 )	< LLD (0 / 3 )	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	MO-99	6	6.68E+02	< LLD (0 / 5 )	< LLD (0 / 1 )	23 24 25 32 33
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	ZRNB-95	20	4.25E+01	< LLD (0 / 17 )	< LLD (0 / 3 )	23 24 25 26 27 32 33



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SEDIMENT (PCI/KG(DRY))	GELI GAMMA	CS-134	20	3.53E+01	< LLD	( 0 /17 )	< LLD	( 0 /3 )	23	24	25	26	27
									32	33			
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	CO-58	20	3.65E+01	< LLD	( 0 /17 )	< LLD	( 0 /3 )	23	24	25	26	27
									32	33			
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	MN-54	20	3.66E+01	6.47E+01 ( 3 /17 )	( 3.50E+01 - 1.20E+02 )	< LLD	( 0 /3 )	23	24	25	26	27
									32	33			
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	TH-232	20	1.17E+02	3.84E+02 ( 17 /17 )	( 1.80E+02 - 7.20E+02 )	3.10E+02 ( 3 /3 )	( 2.60E+02 - 3.70E+02 )	23	24	25	26	27
									32	33			
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	FE-59	20	8.52E+01	< LLD	( 0 /17 )	< LLD	( 0 /3 )	23	24	25	26	27
									32	33			
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	CS-136	20	9.68E+01	< LLD	( 0 /17 )	< LLD	( 0 /3 )	23	24	25	26	27
									32	33			
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	ZN-65	20	8.66E+01	< LLD	( 0 /17 )	< LLD	( 0 /3 )	23	24	25	26	27
									32	33			
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	CO-60	20	4.87E+01	5.40E+02 ( 7 /17 )	( 7.80E+01 - 1.40E+03 )	< LLD	( 0 /3 )	23	24	25	26	27
									32	33			
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	K-40	20	5.76E+02	5.68E+03 ( 16 /17 )	( 2.80E+02 - 1.40E+04 )	5.00E+03 ( 1 /3 )	( 5.00E+03 - 5.00E+03 )	23	24	25	26	27
									32	33			
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	BALA-140	20	9.70E+01	< LLD	( 0 /17 )	< LLD	( 0 /3 )	23	24	25	26	27
									32	33			
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	BE-7	20	3.51E+02	4.85E+02 ( 4 /17 )	( 3.00E+02 - 5.60E+02 )	< LLD	( 0 /3 )	23	24	25	26	27
									32	33			
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	SB-125	20	8.56E+01	< LLD	( 0 /17 )	< LLD	( 0 /3 )	23	24	25	26	27
									32	33			

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN				
							23	24	25	26	27
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	CE-141	20	7.39E+01	< LLD (0 /17 )	< LLD (0 /3 )	23 32	24 33	25	26	27
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	RU-103	20	4.13E+01	< LLD (0 /17 )	< LLD (0 /3 )	23 32	24 33	25	26	27
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	CR-51	20	3.99E+02	< LLD (0 /17 )	< LLD (0 /3 )	23 32	24 33	25	26	27
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	RA-226	20	7.47E+01	3.32E+02 (17 /17 ) ( 1.30E+02 - 5.30E+02)	2.33E+02(3 /3 ) ( 1.40E+02 - 3.00E+02)	23 32	24 33	25	26	27
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	I-131	20	2.15E+02	< LLD (0 /17 )	< LLD (0 /3 )	23 32	24 33	25	26	27
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	NP-239	6	1.99E+05	< LLD (0 /5 )	< LLD (0 /1 )	23	24	25	32	33
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	RU-106	20	2.77E+02	< LLD (0 /17 )	< LLD (0 /3 )	23 32	24 33	25	26	27
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	CO-57	20	2.61E+01	< LLD (0 /17 )	< LLD (0 /3 )	23 32	24 33	25	26	27
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	CS-137	20	3.92E+01	1.89E+02 (11 /17 ) ( 2.90E+01 - 6.50E+02)	4.10E+01(1 /3 ) ( 4.10E+01 - 4.10E+01)	23 32	24 33	25	26	27

TABLE 20

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY  
 OYSTER CREEK NUCLEAR GENERATING STATION  
 SEPTEMBER, 1982 THROUGH NOVEMBER, 1982  
 SECOND QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN					
							1	2	3	4	5	
VEGETATION (PCI/KG(WET))	GROSS BETA		15	3.33E+01	2.35E+03 (15 /15 ) ( 1.48E+03 - 3.89E+03)	( . / . ) ( - - )		1	2	3	4	5
AIR PARTICULATE (PCI/M3 )	GROSS ALPHA		51	5.76E-04	1.56E-03 (23 /32 ) ( 5.22E-04 - 3.64E-03)	1.41E-03(13 /19 ) ( 4.24E-04 - 2.42E-03)		1	2	3	4	5
AIR PARTICULATE (PCI/M3 )	GROSS BETA		51	5.41E-03	1.68E-02 (27 /32 ) ( 7.93E-03 - 2.97E-02)	1.61E-02(18 /19 ) ( 6.94E-03 - 2.80E-02)		1	2	3	4	5
AIR PARTICULATE (PCI/M3 )	STRONTIUM-89		3	3.22E-04	6.01E-04 (1 /2 ) ( 6.01E-04 - 6.01E-04)	2.32E-04(1 /1 ) ( 2.32E-04 - 2.32E-04)			3		5	
AIR PARTICULATE (PCI/M3 )	STRONTIUM-90		3	2.33E-04	< LLD (0 /2 )	< LLD (0 /1 )			3		5	
PRECIPITATION (PCI/L )	GROSS BETA-SS		24	1.76E+00	1.45E+01 (1 /15 ) ( 1.45E+01 - 1.45E+01)	< LLD (0 /9 )		1	2	3	4	5
PRECIPITATION (PCI/L )	GROSS BETA-DS		24	1.52E+00	4.16E+00 (12 /15 ) ( 1.43E+00 - 9.76E+00)	3.04E+00(6 /9 ) ( 1.45E+00 - 7.43E+00)		1	2	3	4	5
PRECIPITATION (PCI/L )	TRITIUM		24	1.56E+02	2.65E+02 (2 /15 ) ( 1.88E+02 - 3.42E+02)	4.81E+02(1 /9 ) ( 4.81E+02 - 4.81E+02)		1	2	3	4	5

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY  
 OYSTER CREEK NUCLEAR GENERATING STATION  
 SEPTEMBER, 1982 THROUGH NOVEMBER, 1982  
 SECOND QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
PRECIPITATION (PCI/L)	STRONTIUM-89	24	1.67E+00	6.40E-01 (1 /15 ) ( 6.40E-01 - 6.40E-01)	< LLD (0 /9 )	1 2 3 4 5
PRECIPITATION (PCI/L)	STRONTIUM-90	24	1.33E+00	< LLD (0 /15 )	< LLD (0 /9 )	1 2 3 4 5
AIR IODINE (PCI/M3)	IODINE-131	51	2.00E-02	< LLD (0 /32 )	< LLD (0 /19 )	1 2 3 4 5
SURFACE WATER (PCI/L)	GROSS ALPHA-SS	24	1.13E+00	< LLD (0 /21 )	< LLD (0 /3 )	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GROSS ALPHA-DS	24	4.56E-01	1.90E+00 (19 /21 ) ( 6.60E-01 - 2.78E+00)	2.36E+00(3 /3 ) ( 1.76E+00 - 3.03E+00)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GROSS BETA-SS	24	1.42E+00	< LLD (0 /21 )	< LLD (0 /3 )	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GROSS BETA-DS	24	1.96E+01	1.55E+02 (20 /21 ) ( 2.24E+00 - 2.94E+02)	2.51E+02(3 /3 ) ( 2.28E+02 - 2.76E+02)	23 24 25 26 27 32 33
SURFACE WATER (MG/L)	CALCIUM BY AA	24	3.20E-01	2.24E+02 (21 /21 ) ( 1.10E+00 - 3.50E+02)	3.55E+02(3 /3 ) ( 3.50E+02 - 3.60E+02)	23 24 25 26 27 32 33

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY  
 OYSTER CREEK NUCLEAR GENERATING STATION  
 SEPTEMBER, 1982 THROUGH NOVEMBER, 1982  
 SECOND QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN				
						23	24	25	26	27
SURFACE WATER (PCI/L)	TRITIUM	24	1.57E+02	< LLD (0 /21)	< LLD (0 /3)	32	33			
SURFACE WATER (PCI/L)	RADIUM-226	24	7.25E-02	3.02E-01 (17 /21) ( 6.52E-02 - 7.25E-01)	1.21E-01(3 /3) ( 4.63E-02 - 1.90E-01)	32	33			
SURFACE WATER (PCI/L)	RADIUM-228	24	1.20E+00	< LLD (0 /21)	< LLD (0 /3)	32	33			
SURFACE WATER (PCI/L)	STRONTIUM-89	24	7.14E-01	3.89E-01 (3 /21) ( 3.64E-01 - 4.18E-01)	< LLD (0 /3)	32	33			
SURFACE WATER (PCI/L)	STRONTIUM-90	24	5.53E-01	< LLD (0 /21)	< LLD (0 /3)	32	33			
SURFACE WATER (PCI/L)	TOTAL URANIUM	24	1.57E-01	1.22E+00 (21 /21) ( 3.70E-01 - 1.98E+00)	1.54E+00(3 /3) ( 1.13E+00 - 1.83E+00)	32	33			
WELL WATER (PCI/L)	GROSS ALPHA-S5	18	1.14E+00	< LLD (0 /18)	( . / . ) ( - - )	22		18	19	20 21
WELL WATER (PCI/L)	GROSS ALPHA-DS	18	1.96E+00	4.76E+00 (6 /18) ( 6.99E-01 - 9.32E+00)	( . / . ) ( - - )	22		18	19	20 21

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY  
 OYSTER CREEK NUCLEAR GENERATING STATION  
 SEPTEMBER, 1982 THROUGH NOVEMBER, 1982  
 SECOND QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
WELL WATER (PCI/L)	GROSS BETA-SS	18	7.62E-01	< LLD (0 /18 )	( . ( . / . ) ( - . - . )	1 18 19 20 21 22
WELL WATER (PCI/L)	GROSS BETA-DS	18	8.09E-01	2.74E+00 (18 /18 ) ( 1.67E+00 - 4.76E+00)	( . ( . / . ) ( - . - . )	1 18 19 20 21 22
WELL WATER (PCI/L)	POTASSIUM-40	6	8.60E-01	1.41E+00 (5 /6 ) ( 1.21E+00 - 1.64E+00)	( . ( . / . ) ( - . - . )	1 18 19 20 21 22
WELL WATER (PCI/L)	TRITIUM	6	1.43E+02	< LLD (0 /6 )	( . ( . / . ) ( - . - . )	1 18 19 20 21 22
WELL WATER (PCI/L)	RADIUM-226	6	7.24E-02	4.00E-01 (5 /6 ) ( 1.66E-01 - 5.73E-01)	( . ( . / . ) ( - . - . )	1 18 19 20 21 22
WELL WATER (PCI/L)	RADIUM-228	6	8.07E-01	< LLD (0 /6 )	( . ( . / . ) ( - . - . )	1 18 19 20 21 22
WELL WATER (PCI/L)	TOTAL URANIUM	6	2.40E-01	4.87E-01 (6 /6 ) ( 2.60E-01 - 7.70E-01)	( . ( . / . ) ( - . - . )	1 18 19 20 21 22
CLAMS (PCI/KG(WET))	GROSS ALPHA	12	2.79E+01	1.74E+02 (9 /9 ) ( 5.03E+01 - 3.57E+02)	6.62E+01(3 /3 ) ( 4.50E+01 - 8.18E+01)	23 24 25

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY  
 OYSTER CREEK NUCLEAR GENERATING STATION  
 SEPTEMBER, 1982 THROUGH NOVEMBER, 1982  
 SECOND QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
CLAMS (PCI/KG(WET))	GROSS BETA	12	2.19E+01	9.64E+02 (9 /9 ) ( 4.17E+02 - 1.33E+03)	1.15E+03(3 /3 ) ( 6.55E+02 - 1.45E+03)	23 24 25
CLAMS (MG/GM(WET) )	CALCIUM BY AA	4	4.40E-01	1.03E+02 (3 /3 ) ( 6.50E+01 - 1.40E+02)	1.08E+02(1 /1 ) ( 1.08E+02 - 1.08E+02)	23 24 25
CLAMS (PCI/KG(WET))	STRONTIUM-89	4	5.16E+01	< LLD (0 /3 )	< LLD (0 /1 )	23 24 25
CLAMS (PCI/KG(WET))	STRONTIUM-90	4	2.62E+01	< LLD (0 /3 )	< LLD (0 /1 )	23 24 25
SOIL (PCI/KG(DRY))	GROSS BETA	15	1.74E+03	4.43E+03 (13 /15 ) ( 2.54E+03 - 9.46E+03)	( . / . ) ( . - . )	1 2 3 4 5
PASTURE (PCI/KG(WET))	GROSS BETA	3	4.66E+01	2.35E+03 (3 /3 ) ( 1.28E+03 - 3.13E+03)	( . / . ) ( . - . )	28 29 30
PASTURE (MG/GM(WET) )	CALCIUM BY AA	3	8.00E-02	1.89E+02 (3 /3 ) ( 1.63E+02 - 2.23E+02)	( . / . ) ( . - . )	28 29 30
PASTURE (PCI/KG(WET))	STRONTIUM-89	3	7.07E+01	< LLD (0 /3 )	( . / . ) ( . - . )	28 29 30

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY  
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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
PASTURE (PCI/KG(WET))	STRONTIUM-90		3	4.16E+02	< LLD (0 / 3 )	( . / . ) ( - )	28 29 30
SEDIMENT (PCI/KG(DRY))	GROSS ALPHA		8	3.45E+03	4.83E+03 (2 / 7 ) ( 3.98E+03 - 5.69E+03)	< LLD (0 / 1 )	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GROSS BETA		8	3.89E+03	8.92E+03 (3 / 7 ) ( 5.56E+03 - 1.52E+04)	1.07E+04(1 / 1 ) ( 1.07E+04 - 1.07E+04)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	STRONTIUM-89		8	1.57E+01	2.40E+01 (7 / 7 ) ( 1.07E+01 - 6.02E+01)	2.28E+01(1 / 1 ) ( 2.28E+01 - 2.28E+01)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	STRONTIUM-90		8	3.40E+00	< LLD (0 / 7 )	< LLD (0 / 1 )	23 24 25 26 27 32 33
AIR PARTICULATE (PCI/M3 )	GELI GAMMA	CE-144	50	3.12E-02	< LLD (0 / 31 )	< LLD (0 / 19 )	1 2 3 4 5
AIR PARTICULATE (PCI/M3 )	GELI GAMMA	AG-110M	51	5.18E-03	< LLD (0 / 32 )	< LLD (0 / 19 )	1 2 3 4 5
AIR PARTICULATE (PCI/M3 )	GELI GAMMA	SR-91	1	3.80E-05	< LLD (0 / 1 )	( . / . ) ( - )	3



RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY  
 OYSTER CREEK NUCLEAR GENERATING STATION  
 SEPTEMBER, 1982 THROUGH NOVEMBER, 1982  
 SECOND QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL)		BACKGROUND-MEAN(N/TOTAL)		STATIONS USED FOR INDICATOR MEAN				
						RANGE		RANGE					
AIR PARTICULATE (PCI/M3 )	GELI GAMMA	TE-129M	51	2.34E-01	< LLD	( 0 / 32 )	< LLD	( 0 / 19 )	1	2	3	4	5
AIR PARTICULATE (PCI/M3 )	GELI GAMMA	MO-99	42	3.20E-01	< LLD	( 0 / 28 )	< LLD	( 0 / 14 )	1	2	3	4	5
AIR PARTICULATE (PCI/M3 )	GELI GAMMA	ZRNB-95	3	5.20E-03	< LLD	( 0 / 2 )	< LLD	( 0 / 1 )	3	5			
AIR PARTICULATE (PCI/M3 )	GELI GAMMA	CS-134	51	4.95E-03	< LLD	( 0 / 32 )	< LLD	( 0 / 19 )	1	2	3	4	5
AIR PARTICULATE (PCI/M3 )	GELI GAMMA	CO-58	51	6.11E-03	< LLD	( 0 / 32 )	< LLD	( 0 / 19 )	1	2	3	4	5
AIR PARTICULATE (PCI/M3 )	GELI GAMMA	MN-54	51	5.55E-03	< LLD	( 0 / 32 )	< LLD	( 0 / 19 )	1	2	3	4	5
AIR PARTICULATE (PCI/M3 )	GELI GAMMA	TH-232	51	1.83E-02	< LLD	( 0 / 32 )	< LLD	( 0 / 19 )	1	2	3	4	5
AIR PARTICULATE (PCI/M3 )	GELI GAMMA	FE-59	51	1.31E-02	< LLD	( 0 / 32 )	< LLD	( 0 / 19 )	1	2	3	4	5

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY  
 OYSTER CREEK NUCLEAR GENERATING STATION  
 SEPTEMBER, 1982 THROUGH NOVEMBER, 1982  
 SECOND QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CS-136	51	1.41E-02	< LLD (0 /32 )	< LLD (0 /19 )	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	ZN-65	51	1.29E-02	< LLD (0 /32 )	< LLD (0 /19 )	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CO-60	51	7.73E-03	< LLD (0 /32 )	< LLD (0 /19 )	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	K-40	51	9.00E-02	3.58E-01 (2 /32 ) ( 7.70E-02 - 6.40E-01)	3.80E-01(1 /19 ) ( 3.80E-01 - 3.80E-01)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	BALA-140	51	1.92E-02	< LLD (0 /32 )	< LLD (0 /19 )	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	BE-7	51	6.29E-02	8.81E-02 (11 /32 ) ( 6.10E-02 - 1.30E-01)	6.92E-02(6 /19 ) ( 4.80E-02 - 9.60E-02)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	ZR-95	48	1.09E-02	< LLD (0 /30 )	< LLD (0 /18 )	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	NB-95	48	7.42E-03	< LLD (0 /30 )	< LLD (0 /18 )	1 2 3 4 5

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY  
 CYSTER CREEK NUCLEAR GENERATING STATION  
 SEPTEMBER, 1982 THROUGH NOVEMBER, 1982  
 SECOND QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE NUMBER	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR RANGE	MEAN(N/TOTAL)	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
AIR PARTICULATE (PCI/M3)	GELI GAMMA	SB-125	51	1.46E-02	< LLD	(0 /32 )	< LLD (0 /19 )	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CE-141	51	1.07E-02	< LLD	(0 /32 )	< LLD (0 /19 )	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	RU-103	51	6.88E-03	< LLD	(0 /32 )	< LLD (0 /19 )	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	CR-51	51	6.57E-02	< LLD	(0 /32 )	< LLD (0 /19 )	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	RA-226	51	2.07E-02	< LLD	(0 /32 )	< LLD (0 /19 )	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	I-131	51	2.79E-02	< LLD	(0 /32 )	< LLD (0 /19 )	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	NP-239	22	4.45E+01	< LLD	(0 /15 )	< LLD (0 /7 )	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GELI GAMMA	RU-106	51	4.73E-02	< LLD	(0 /32 )	< LLD (0 /19 )	1 2 3 4 5

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL)		BACKGROUND-MEAN(N/TOTAL)		STATIONS USED FOR INDICATOR MEAN				
						RANGE		RANGE	1	2	3	4	5
AIR PARTICULATE (PCI/M3 )	GELI GAMMA	CO-57	44	3.92E-03	< LLD	( 0 /27 )	< LLD	( 0 /17 )	1	2	3	4	5
AIR PARTICULATE (PCI/M3 )	GELI GAMMA	I-133	1	4.30E-04	< LLD	( 0 /1 )	( . / . ) ( - . )		3				
AIR PARTICULATE (PCI/M3 )	GELI GAMMA	CS-137	51	5.45E-03	< LLD	( 0 /32 )	< LLD	( 1 /19 )	1	2	3	4	5
PRECIPITATION (PCI/L )	NAI GAMMA	CE-144	24	9.29E+01	< LLD	( 0 /15 )	< LLD	( 0 /9 )	1	2	3	4	5
PRECIPITATION (PCI/L )	NAI GAMMA	AG-110M	24	7.77E+00	< LLD	( 0 /15 )	< LLD	( 0 /9 )	1	2	3	4	5
PRECIPITATION (PCI/L )	NAI GAMMA	TE-129M	24	1.59E+02	< LLD	( 0 /15 )	< LLD	( 0 /9 )	1	2	3	4	5
PRECIPITATION (PCI/L )	NAI GAMMA	MO-99	24	2.79E+03	< LLD	( 0 /15 )	< LLD	( 0 /9 )	1	2	3	4	5
PRECIPITATION (PCI/L )	NAI GAMMA	ZRNB-95	24	8.01E+00	< LLD	( 0 /15 )	< LLD	( 0 /9 )	1	2	3	4	5

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
PRECIPITATION (PCI/L)	NAI GAMMA	CS-134	24	7.47E+00	< LLD (0 /15 )	< LLD (0 /9 )	1 2 3 4 5
PRECIPITATION (PCI/L)	NAI GAMMA	CO-58	24	8.37E+00	< LLD (0 /15 )	< LLD (0 /9 )	1 2 3 4 5
PRECIPITATION (PCI/L)	NAI GAMMA	MN-54	24	7.52E+00	< LLD (0 /15 )	< LLD (0 /9 )	1 2 3 4 5
PRECIPITATION (PCI/L)	NAI GAMMA	TH-232	24	2.75E+01	< LLD (0 /15 )	< LLD (0 /9 )	1 2 3 4 5
PRECIPITATION (PCI/L)	NAI GAMMA	FE-59	24	1.66E+01	< LLD (0 /15 )	< LLD (0 /9 )	1 2 3 4 5
PRECIPITATION (PCI/L)	NAI GAMMA	CS-136	24	2.21E+01	< LLD (0 /15 )	< LLD (0 /9 )	1 2 3 4 5
PRECIPITATION (PCI/L)	NAI GAMMA	TE-132	24	2.80E+02	< LLD (0 /15 )	< LLD (0 /9 )	1 2 3 4 5
PRECIPITATION (PCI/L)	NAI GAMMA	ZN-65	24	1.59E+01	< LLD (0 /15 )	< LLD (0 /9 )	1 2 3 4 5

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
PRECIPITATION (PCI/L)	NAI GAMMA	CO-60	24	7.78E+00	< LLD (0 /15 )	< LLD (0 /9 )	1 2 3 4 5
PRECIPITATION (PCI/L)	NAI GAMMA	K-40	24	9.05E+01	< LLD (0 /15 )	< LLD (0 /9 )	1 2 3 4 5
PRECIPITATION (PCI/L)	NAI GAMMA	BALA-140	24	1.69E+01	< LLD (0 /15 )	< LLD (0 /9 )	1 2 3 4 5
PRECIPITATION (PCI/L)	NAI GAMMA	BE-7	24	8.78E+01	< LLD (0 /15 )	< LLD (0 /9 )	1 2 3 4 5
PRECIPITATION (PCI/L)	NAI GAMMA	CR-51	24	1.05E+02	< LLD (0 /15 )	< LLD (0 /9 )	1 2 3 4 5
PRECIPITATION (PCI/L)	NAI GAMMA	Rb-226	24	1.40E+01	< LLD (0 /15 )	< LLD (0 /9 )	1 2 3 4 5
PRECIPITATION (PCI/L)	NAI GAMMA	I-131	24	3.11E+01	< LLD (0 /15 )	< LLD (0 /9 )	1 2 3 4 5
PRECIPITATION (PCI/L)	NAI GAMMA	NA-22	24	7.67E+00	< LLD (0 /15 )	< LLD (0 /9 )	1 2 3 4 5

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
PRECIPITATION (PCI/L)	NAI GAMMA	RU-106	24	7.56E+01	< LLD (0 /15 )	< LLD (0 /9 )	1 2 3 4 5
PRECIPITATION (PCI/L)	NAI GAMMA	I-133	24	8.70E+00	< LLD (0 /15 )	< LLD (0 /9 )	1 2 3 4 5
PRECIPITATION (PCI/L)	NAI GAMMA	CS-137	24	8.07E+00	< LLD (0 /15 )	< LLD (0 /9 )	1 2 3 4 5
SURFACE WATER (PCI/L)	NAI GAMMA	CE-144	24	5.26E+01	< LLD (0 /21 )	< LLD (0 /3 )	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	NAI GAMMA	AG-110M	24	5.33E+00	< LLD (0 /21 )	< LLD (0 /3 )	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	NAI GAMMA	TE-129M	24	1.07E+02	< LLD (0 /21 )	< LLD (0 /3 )	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	NAI GAMMA	MO-99	24	2.03E+03	< LLD (0 /21 )	< LLD (0 /3 )	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	NAI GAMMA	ZRNB-95	24	5.45E+00	< LLD (0 /21 )	< LLD (0 /3 )	23 24 25 26 27 32 33

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SURFACE WATER (PCI/L )	NAI GAMMA	CS-134	24	5.07E+00	< LLD (0 /21 )	< LLD (0 /3 )	23 24 25 26 27 32 33
SURFACE WATER (PCI/L )	NAI GAMMA	CO-58	24	5.27E+00	< LLD (0 /21 )	< LLD (0 /3 )	23 24 25 26 27 32 33
SURFACE WATER (PCI/L )	NAI GAMMA	MN-54	24	4.96E+00	< LLD (0 /21 )	< LLD (0 /3 )	23 24 25 26 27 32 33
SURFACE WATER (PCI/L )	NAI GAMMA	TH-232	24	1.79E+01	< LLD (0 /21 )	< LLD (0 /3 )	23 24 25 26 27 32 33
SURFACE WATER (PCI/L )	NAI GAMMA	FE-59	24	1.17E+01	< LLD (0 /21 )	< LLD (0 /3 )	23 24 25 26 27 32 33
SURFACE WATER (PCI/L )	NAI GAMMA	CS-136	24	1.51E+01	< LLD (0 /21 )	< LLD (0 /3 )	23 24 25 26 27 32 33
SURFACE WATER (PCI/L )	NAI GAMMA	TE-132	24	1.90E+02	< LLD (0 /21 )	< LLD (0 /3 )	23 24 25 26 27 32 33
SURFACE WATER (PCI/L )	NAI GAMMA	ZN-65	24	1.12E+01	< LLD (0 /21 )	< LLD (0 /3 )	23 24 25 26 27 32 33



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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN				
SURFACE WATER (PCI/L )	NAI GAMMA	CO-60	24	5.05E+00	< LLD (0 /21 )	< LLD (0 /3 )	23	24	25	26	27
							32	33			
SURFACE WATER (PCI/L )	NAI GAMMA	K-40	24	7.81E+01	4.01E+02 (16 /21 ) ( 6.30E+01 - 2.60E+03)	2.90E+02(3 /3 ) ( 2.50E+02 - 3.10E+02)	23	24	25	26	27
							32	33			
SURFACE WATER (PCI/L )	NAI GAMMA	BALA-140	24	1.13E+01	< LLD (0 /21 )	< LLD (0 /3 )	23	24	25	26	27
							32	33			
SURFACE WATER (PCI/L )	NAI GAMMA	BE-7	24	5.28E+01	< LLD (0 /21 )	< LLD (0 /3 )	23	24	25	26	27
							32	33			
SURFACE WATER (PCI/L )	NAI GAMMA	CR-51	24	7.34E+01	< LLD (0 /21 )	< LLD (0 /3 )	23	24	25	26	27
							32	33			
SURFACE WATER (PCI/L )	NAI GAMMA	RA-226	24	9.46E+00	< LLD (0 /21 )	< LLD (0 /3 )	23	24	25	26	27
							32	33			
SURFACE WATER (PCI/L )	NAI GAMMA	I-131	24	2.12E+01	< LLD (0 /21 )	< LLD (0 /3 )	23	24	25	26	27
							32	33			
SURFACE WATER (PCI/L )	NAI GAMMA	NA-22	24	5.13E+00	< LLD (0 /21 )	< LLD (0 /3 )	23	24	25	26	27
							32	33			

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					RANGE		RANGE						
SURFACE WATER (PCI/L )	NAI GAMMA	RU-106	24	5.22E+01	< LLD	( 0 /21 )	< LLD	( 0 /3 )	23	24	25	26	27
									32	33			
SURFACE WATER (PCI/L )	NAI GAMMA	I-133	24	6.27E+00	< LLD	( 0 /21 )	< LLD	( 0 /3 )	23	24	25	26	27
									32	33			
SURFACE WATER (PCI/L )	NAI GAMMA	CS-137	24	5.44E+00	< LLD	( 0 /21 )	< LLD	( 0 /3 )	23	24	25	26	27
									32	33			
WELL WATER (PCI/L )	NAI GAMMA	CE-144	6	7.10E+01	< LLD	( 0 /6 )	( . / . )	( . / . )	1	18	19	20	21
							( . / . )	( . / . )	22				
WELL WATER (PCI/L )	NAI GAMMA	AG-110M	6	7.12E+00	< LLD	( 0 /6 )	( . / . )	( . / . )	1	18	19	20	21
							( . / . )	( . / . )	22				
WELL WATER (PCI/L )	NAI GAMMA	TE-129M	6	1.13E+02	< LLD	( 0 /6 )	( . / . )	( . / . )	1	18	19	20	21
							( . / . )	( . / . )	22				
WELL WATER (PCI/L )	NAI GAMMA	MO-99	6	2.85E+02	< LLD	( 0 /6 )	( . / . )	( . / . )	1	18	19	20	21
							( . / . )	( . / . )	22				
WELL WATER (PCI/L )	NAI GAMMA	ZRNB-95	6	5.95E+00	< LLD	( 0 /6 )	( . / . )	( . / . )	1	18	19	20	21
							( . / . )	( . / . )	22				

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WELL WATER (PCI/L)	NAI GAMMA	CS-134	6	6.30E+00	< LLD (0 /6 )	( . ( . / . ) - . )	1 18 19 20 21 22
WELL WATER (PCI/L)	NAI GAMMA	CO-58	6	6.63E+00	< LLD (0 /6 )	( . ( . / . ) - . )	1 18 19 20 21 22
WELL WATER (PCI/L)	NAI GAMMA	MN-54	6	6.03E+00	< LLD (0 /6 )	( . ( . / . ) - . )	1 18 19 20 21 22
WELL WATER (PCI/L)	NAI GAMMA	TH-232	6	2.35E+01	< LLD (0 /6 )	( . ( . / . ) - . )	1 18 19 20 21 22
WELL WATER (PCI/L)	NAI GAMMA	FE-59	6	1.27E+01	< LLD (0 /6 )	( . ( . / . ) - . )	1 18 19 20 21 22
WELL WATER (PCI/L)	NAI GAMMA	CS-136	6	1.12E+01	< LLD (0 /6 )	( . ( . / . ) - . )	1 18 19 20 21 22
WELL WATER (PCI/L)	NAI GAMMA	TE-132	6	3.75E+01	< LLD (0 /6 )	( . ( . / . ) - . )	1 18 19 20 21 22
WELL WATER (PCI/L)	NAI GAMMA	ZN-65	6	1.35E+01	< LLD (0 /6 )	( . ( . / . ) - . )	1 18 19 20 21 22

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SAMPLE TYPE	ANALYSIS	ISOTOPE NUMBER	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
WELL WATER (PCI/L)	NAI GAMMA	CO-60	6	6.73E+00	< LLD (0 /6 )	( . / . ) ( - . )	1 18 19 20 21 22
WELL WATER (PCI/L)	NAI GAMMA	K-40	6	7.78E+01	< LLD (0 /6 )	( . / . ) ( - . )	1 18 19 20 21 22
WELL WATER (PCI/L)	NAI GAMMA	BALA-140	6	9.52E+00	< LLD (0 /6 )	( . / . ) ( - . )	1 18 19 20 21 22
WELL WATER (PCI/L)	NAI GAMMA	BE-7	6	6.55E+01	< LLD (0 /6 )	( . / . ) ( - . )	1 18 19 20 21 22
WELL WATER (PCI/L)	NAI GAMMA	CR-51	6	7.75E+01	< LLD (0 /6 )	( . / . ) ( - . )	1 18 19 20 21 22
WELL WATER (PCI/L)	NAI GAMMA	RA-226	6	1.33E+01	2.65E+01 (2 /6 ) ( 2.50E+01 - 2.80E+01)	( . / . ) ( - . )	1 18 19 20 21 22
WELL WATER (PCI/L)	NAI GAMMA	I-131	6	1.53E+01	< LLD (0 /6 )	( . / . ) ( - . )	1 18 19 20 21 22
WELL WATER (PCI/L)	NAI GAMMA	NA-22	6	6.48E+00	< LLD (0 /6 )	( . / . ) ( - . )	1 18 19 20 21 22

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SAMPLE TYPE	ANALYSIS	ISOTOPE NUMBER	LLD	INDICATOR-MEAN(N/TOTAL) OF ANALYSES PERFORMED	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
WELL WATER (PCI/L)	NAI GAMMA	RU-106	6	4.57E+01 < LLD (0 / 6)	(. / .) (. / .)	1 18 19 20 21 22
WELL WATER (PCI/L)	NAI GAMMA	I-133	6	2.72E+03 < LLD (0 / 6)	(. / .) (. / .)	1 18 19 20 21 22
WELL WATER (PCI/L)	NAI GAMMA	CS-137	6	7.00E+00 < LLD (0 / 6)	(. / .) (. / .)	1 18 19 20 21 22
CLAMS (PCI/KG(WET))	NAI GAMMA	CE-144	4	1.19E+02 < LLD (0 / 3)	< LLD (0 / 1)	23 24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	AG-110M	4	2.40E+01 < LLD (0 / 3)	< LLD (0 / 1)	23 24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	TE-129M	4	5.23E+02 < LLD (0 / 3)	< LLD (0 / 1)	23 24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	MO-99	4	5.80E+03 < LLD (0 / 3)	< LLD (0 / 1)	23 24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	ZRNB-95	4	2.33E+01 < LLD (0 / 3)	< LLD (0 / 1)	23 24 25

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CLAMS (PCI/KG(WET))	NAI GAMMA	CS-134	4	2.33E+01	< LLD (0 /3 )	< LLD (0 /1 )	23 24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	CO-58	4	2.70E+01	< LLD (0 /3 )	< LLD (0 /1 )	23 24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	MN-54	4	2.40E+01	< LLD (0 /3 )	< LLD (0 /1 )	23 24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	TH-232	4	8.75E+01	< LLD (0 /3 )	< LLD (0 /1 )	23 24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	FE-59	4	6.33E+01	< LLD (0 /3 )	< LLD (0 /1 )	23 24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	CS-136	4	7.43E+01	< LLD (0 /3 )	< LLD (0 /1 )	23 24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	TE-132	4	3.45E+02	< LLD (0 /3 )	< LLD (0 /1 )	23 24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	ZN-65	4	5.68E+01	< LLD (0 /3 )	< LLD (0 /1 )	23 24 25

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CLAMS (PCI/KG(WET))	NAI GAMMA	CO-60	4	2.73E+01	< LLD (0 /3 )	< LLD (0 /1 )	23 24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	K-40	4	4.28E+02	1.50E+03 (2 /3 ) ( 1.20E+03 - 1.80E+03)	2.30E+03(1 /1 ) ( 2.30E+03 - 2.30E+03)	23 24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	BALA-140	4	5.90E+01	< LLD (0 /3 )	< LLD (0 /1 )	23 24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	BE-7	4	2.35E+02	< LLD (0 /3 )	< LLD (0 /1 )	23 24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	CR-51	4	2.25E+02	< LLD (0 /3 )	< LLD (0 /1 )	23 24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	RA-226	4	3.90E+01	< LLD (0 /3 )	< LLD (0 /1 )	23 24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	I-131	4	8.00E+01	< LLD (0 /3 )	< LLD (0 /1 )	23 24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	NA-22	4	2.73E+01	< LLD (0 /3 )	< LLD (0 /1 )	23 24 25

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CLAMS (PCI/KG(WET))	NAI GAMMA	RU-106	4	2.40E+02	< LLD (0 /3 )	< LLD (0 /1 )	23 24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	I-133	4	2.73E+01	< LLD (0 /3 )	< LLD (0 /1 )	23 24 25
CLAMS (PCI/KG(WET))	NAI GAMMA	CS-137	4	2.73E+01	< LLD (0 /3 )	< LLD (0 /1 )	23 24 25
SOIL (PCI/KG(DRY))	GELI GAMMA	CE-144	10	2.28E+02	< LLD (0 /10 )	( . ( . / . ) - . )	1 2 3 4 5
SOIL (PCI/KG(DRY))	GELI GAMMA	AG-110M	10	8.99E+01	< LLD (0 /10 )	( . ( . / . ) - . )	1 2 3 4 5
SOIL (PCI/KG(DRY))	GELI GAMMA	TE-129M	10	1.23E+03	< LLD (0 /10 )	( . ( . / . ) - . )	1 2 3 4 5
SOIL (PCI/KG(DRY))	GELI GAMMA	MO-99	10	4.43E+02	< LLD (0 /10 )	( . ( . / . ) - . )	1 2 3 4 5
SOIL (PCI/KG(DRY))	GELI GAMMA	CS-134	10	4.21E+01	< LLD (0 /10 )	( . ( . / . ) - . )	1 2 3 4 5



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SOIL (PCI/KG(DRY))	GELI GAMMA	CO-58	10	3.22E+01	< LLD (0 /10 )	( . ( . / . ) - . )	1 2 3 4 5
SOIL (PCI/KG(DRY))	GELI GAMMA	MN-54	10	3.25E+01	< LLD (0 /10 )	( . ( . / . ) - . )	1 2 3 4 5
SOIL (PCI/KG(DRY))	GELI GAMMA	TH-232	10	1.32E+02	2.40E+02 (7 /10 ) ( 1.60E+02 - 3.50E+02)	( . ( . / . ) - . )	1 2 3 4 5
SOIL (PCI/KG(DRY))	GELI GAMMA	FE-59	10	6.60E+01	< LLD (0 /10 )	( . ( . / . ) - . )	1 2 3 4 5
SOIL (PCI/KG(DRY))	GELI GAMMA	CS-136	9	4.82E+01	< LLD (0 /9 )	( . ( . / . ) - . )	1 2 3 4 5
SOIL (PCI/KG(DRY))	GELI GAMMA	ZN-65	10	8.91E+01	< LLD (0 /10 )	( . ( . / . ) - . )	1 2 3 4 5
SOIL (PCI/KG(DRY))	GELI GAMMA	CO-60	10	4.41E+01	< LLD (0 /10 )	( . ( . / . ) - . )	1 2 3 4 5
SOIL (PCI/KG(DRY))	GELI GAMMA	K-40	10	3.90E+02	9.82E+02 (9 /10 ) ( 2.20E+02 - 1.90E+03)	( . ( . / . ) - . )	1 2 3 4 5

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SOIL (PCI/KG(DRY))	GELI GAMMA	BALA-140	10	6.73E+01	< LLD (0 /10 )	( . ( . / . ) - . )	1 2 3 4 5
SOIL (PCI/KG(DRY))	GELI GAMMA	BE-7	10	3.79E+02	< LLD (0 /10 )	( . ( . / . ) - . )	1 2 3 4 5
SOIL (PCI/KG(DRY))	GELI GAMMA	ZR-95	10	5.96E+01	< LLD (0 /10 )	( . ( . / . ) - . )	1 2 3 4 5
SOIL (PCI/KG(DRY))	GELI GAMMA	NB-95	10	4.32E+01	< LLD (0 /10 )	( . ( . / . ) - . )	1 2 3 4 5
SOIL (PCI/KG(DRY))	GELI GAMMA	SB-125	10	1.09E+02	< LLD (0 /10 )	( . ( . / . ) - . )	1 2 3 4 5
SOIL (PCI/KG(DRY))	GELI GAMMA	CE-141	10	6.37E+01	< LLD (0 /10 )	( . ( . / . ) - . )	1 2 3 4 5
SOIL (PCI/KG(DRY))	GELI GAMMA	RU-103	10	4.27E+01	< LLD (0 /10 )	( . ( . / . ) - . )	1 2 3 4 5
SOIL (PCI/KG(DRY))	GELI GAMMA	CR-51	10	3.66E+02	< LLD (0 /10 )	( . ( . / . ) - . )	1 2 3 4 5

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SOIL (PCI/KG(DRY))	GELI GAMMA	RA-226	10	8.14E+01	2.36E+02 (8 /10 ) ( 1.20E+02 - 3.60E+02)	( . ( . / . ) ( - . )	1 2 3 4 5
SOIL (PCI/KG(DRY))	GELI GAMMA	I-131	10	9.19E+01	< LLD (0 /10 )	( . ( . / . ) ( - . )	1 2 3 4 5
SOIL (PCI/KG(DRY))	GELI GAMMA	NP-239	10	1.35E+05	< LLD (0 /10 )	( . ( . / . ) ( - . )	1 2 3 4 5
SOIL (PCI/KG(DRY))	GELI GAMMA	RU-106	10	2.99E+02	< LLD (0 /10 )	( . ( . / . ) ( - . )	1 2 3 4 5
SOIL (PCI/KG(DRY))	GELI GAMMA	CO-57	10	2.69E+01	< LLD (0 /10 )	( . ( . / . ) ( - . )	1 2 3 4 5
SOIL (PCI/KG(DRY))	GELI GAMMA	CS-137	10	4.80E+01	6.56E+02 (10 /10 ) ( 4.10E+01 - 1.50E+03)	( . ( . / . ) ( - . )	1 2 3 4 5
PASTURE (PCI/KG(WET))	NAI GAMMA	CE-144	3	4.30E+02	< LLD (0 /3 )	( . ( . / . ) ( - . )	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	AG-110M	3	1.26E+02	< LLD (0 /3 )	( . ( . / . ) ( - . )	28 29 30

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY  
 OYSTER CREEK NUCLEAR GENERATING STATION  
 SEPTEMBER, 1982 THROUGH NOVEMBER, 1982  
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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
PASTURE (PCI/KG(WET))	NAI GAMMA	TE-129M	3	2.23E+03	< LLD (0 /3 )	( . ( . / . ) - . )	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	MO-99	3	6.33E+04	< LLD (0 /3 )	( . ( . / . ) - . )	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	ZRNB-95	3	1.18E+02	< LLD (0 /3 )	( . ( . / . ) - . )	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	CS-134	3	1.22E+02	< LLD (0 /3 )	( . ( . / . ) - . )	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	CO-58	3	1.43E+02	< LLD (0 /3 )	( . ( . / . ) - . )	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	MN-54	3	1.26E+02	< LLD (0 /3 )	( . ( . / . ) - . )	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	TH-232	3	4.17E+02	< LLD (0 /3 )	( . ( . / . ) - . )	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	FF-59	3	3.40E+02	< LLD (0 /3 )	( . ( . / . ) - . )	28 29 30

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
PASTURE (PCI/KG(WET))	NAI GAMMA	CS-136	3	3.77E+02	< LLD (0 /3 )	( . / . ) ( - . )	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	TE-132	3	3.43E+03	< LLD (0 /3 )	( . / . ) ( - . )	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	ZN-65	3	2.73E+02	< LLD (0 /3 )	( . / . ) ( - . )	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	CO-60	3	1.37E+02	< LLD (0 /3 )	( . / . ) ( - . )	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	K-40	3	1.53E+03	< LLD (0 /3 )	( . / . ) ( - . )	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	BALA-140	3	3.60E+02	< LLD (0 /3 )	( . / . ) ( - . )	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	BE-7	3	1.22E+03	< LLD (0 /3 )	( . / . ) ( - . )	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	CR-51	3	1.28E+03	< LLD (0 /3 )	( . / . ) ( - . )	28 29 30

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 SEPTEMBER, 1982 THROUGH NOVEMBER, 1982  
 SECOND QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
PASTURE (PCI/KG(WET))	NAI GAMMA	RA-226	3	2.60E+02	< LLD (0 /3 )	( . ( . / . ) - . )	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	I-131	3	5.07E+02	< LLD (0 /3 )	( . ( . / . ) - . )	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	NA-22	3	1.33E+02	< LLD (0 /3 )	( . ( . / . ) - . )	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	RU-106	3	1.19E+03	< LLD (0 /3 )	( . ( . / . ) - . )	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	I-133	3	1.43E+02	< LLD (0 /3 )	( . ( . / . ) - . )	28 29 30
PASTURE (PCI/KG(WET))	NAI GAMMA	CS-137	3	1.30E+02	< LLD (0 /3 )	( . ( . / . ) - . )	28 29 30
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	CE-144	20	2.72E+02	< LLD (0 /17 )	< LLD (0 /3 )	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	AG-110M	20	5.54E+01	< LLD (0 /17 )	< LLD (0 /3 )	23 24 25 26 27 32 33

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL)		BACKGROUND-MEAN(N/TOTAL)		STATIONS USED FOR INDICATOR MEAN				
					RANGE		RANGE						
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	TE-129M	20	1.97E+03	< LLD	( 0 /17 )	< LLD	( 0 /3 )	23	24	25	26	27
									32	33			
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	MO-99	17	1.20E+03	< LLD	( 0 /15 )	< LLD	( 0 /2 )	23	24	25	26	27
									32	33			
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	CS-134	20	6.71E+01	< LLD	( 0 /17 )	< LLD	( 0 /3 )	23	24	25	26	27
									32	33			
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	CO-58	20	7.55E+01	< LLD	( 0 /17 )	< LLD	( 0 /3 )	23	24	25	26	27
									32	33			
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	MN-54	20	6.21E+01	1.10E+02 ( 1 /17 ) ( 1.10E+02 - 1.10E+02 )		< LLD	( 0 /3 )	23	24	25	26	27
									32	33			
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	TH-232	20	2.06E+02	4.10E+02 ( 11 /17 ) ( 1.80E+02 - 7.60E+02 )		3.80E+02 ( 3 /3 ) ( 3.40E+02 - 4.00E+02 )		23	24	25	26	27
									32	33			
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	FE-59	20	2.08E+02	< LLD	( 0 /17 )	< LLD	( 0 /3 )	23	24	25	26	27
									32	33			
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	CS-136	20	1.96E+03	< LLD	( 0 /17 )	< LLD	( 0 /3 )	23	24	25	26	27
									32	33			

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN				
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	ZN-65	20	1.61E+02	< LLD (0 /17 )	< LLD (0 /3 )	23	24	25	26	27
							32	33			
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	CO-60	20	7.67E+01	4.93E+02 (7 /17 ) ( 4.90E+01 - 1.20E+03)	< LLD (0 /3 )	23	24	25	26	27
							32	33			
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	K-40	20	6.05E+02	6.25E+03 (15 /17 ) ( 7.50E+02 - 1.50E+04)	1.04E+04(3 /3 ) ( 9.10E+03 - 1.20E+04)	23	24	25	26	27
							32	33			
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	BALA-140	20	2.03E+03	< LLD (0 /17 )	< LLD (0 /3 )	23	24	25	26	27
							32	33			
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	BE-7	20	8.35E+02	3.80E+02 (1 /17 ) ( 3.80E+02 - 3.80E+02)	< LLD (0 /3 )	23	24	25	26	27
							32	33			
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	ZR-95	20	1.43E+02	< LLD (0 /17 )	< LLD (0 /3 )	23	24	25	26	27
							32	33			
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	NB-95	20	1.44E+02	< LLD (0 /17 )	< LLD (0 /3 )	23	24	25	26	27
							32	33			
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	SB-125	20	1.57E+02	< LLD (0 /17 )	< LLD (0 /3 )	23	24	25	26	27
							32	33			



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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL)		BACKGROUND-MEAN(N/TOTAL)		STATIONS USED FOR INDICATOR MEAN				
						RANGE		RANGE					
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	CE-141	20	2.87E+02	< LLD	(0 /17 )	< LLD	(0 /3 )	23 32	24 33	25	26	27
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	RU-103	20	1.29E+02	< LLD	(0 /17 )	< LLD	(0 /3 )	23 32	24 33	25	26	27
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	CR-51	20	5.29E+02	< LLD	(0 /17 )	< LLD	(0 /3 )	23 32	24 33	25	26	27
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	RA-226	20	1.21E+02	3.16E+02 (16 /17 ) ( 1.40E+02 - 5.10E+02)		2.70E+02(3 /3 ) ( 2.20E+02 - 3.20E+02)		23 32	24 33	25	26	27
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	I-131	20	2.17E+02	< LLD	(0 /17 )	< LLD	(0 /3 )	23 32	24 33	25	26	27
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	NP-239	15	7.66E+04	< LLD	(0 /13 )	< LLD	(0 /2 )	23 32	24 33	25	26	27
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	RU-106	20	5.27E+02	< LLD	(0 /17 )	< LLD	(0 /3 )	23 32	24 33	25	26	27
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	CO-57	20	5.19E+01	< LLD	(0 /17 )	< LLD	(0 /3 )	23 32	24 33	25	26	27

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY  
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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
			OF ANALYSES PERFORMED				
SEDIMENT (PCI/KG(DRY))	GELI GAMMA	CS-137	20	6.70E+01	1.88E+02 (7 /17 ) ( 3.10E+01 - 3.10E+02)	< LLD (0 /3 )	23 24 25 26 27 32 33

## ANALYSIS OF DATA

A statistical analysis was performed on each analytical result during the reporting period according to sample type, station, and analysis to determine which results, if any, were outside the normal or expected range of environmental activities. These ranges were based upon historical data amassed from Oyster Creek's Radiological Environmental Monitoring Program surveys from past years. While these "higher-than-expected" results are somewhat elevated, they are in no way considered to be abnormal. Except where noted, elevated results were not attributed to plant effluents and were, in most cases, naturally occurring isotopes. A discussion of the elevated results follows.

Gamma spectroscopy analysis of air particulate filters revealed higher than usual amounts of K-40 at both indicator and background stations during five of the six months in the sampling period. Since K-40 is a naturally occurring isotope found in a variety of environmental media, the excessive amount on air particulate filters is presumed to be due to dust loading, especially in those sampling locations (e.g. Station 3) near sandy areas. Elevated amounts of K-40 were also found in pasture samples collected during July at Stations 28 and 29 (also adjacent to sandy areas). K-40 is also found in many types of plants which, in conjunction with the sand, accounts for these elevated results. Surface water samples analyzed for gamma-emitting isotopes during the reporting period also showed infrequent elevated activity of K-40, as did soil samples that were collected. Soil and aquatic sediment samples also showed some slightly higher than normal amounts of Ra-226 and Th-232,

both naturally occurring isotopes and not considered to be related to facility effluents. Elevated gross beta activity in both soil and aquatic sediment during the reporting period can be attributed to the elevated K-40, a beta- as well as a gamma-emitter. Ra-226 has a history of being found in regional groundwaters, along with other uranium daughters, which explains the elevated amount of Ra-226 found at well water stations 19 and 21 collected during October. It is also believed to account for elevated gross alpha activity at Stations 19 and 21 during the same time period. Finally, Be-7 was detected in several media during the six-month sampling period. Elevated amounts were detected in air and aquatic sediment. Being of cosmic origin, the presence of this isotope is not considered to be due to plant operations.

Several fission-product isotopes were detected in various media throughout the reporting period. However, these were either not plant-related and/or already documented. Cs-137 was detected in soil and air particulate samples collected at Station 1 during the fourth quarter. However, no appreciable quantities of this isotope were released from Oyster Creek during the reporting period. Additionally, predominant winds were to the northeast, while Station 1 lies southwest of the plant. For these reasons the Cs-137 detected at station 1 is not considered to be facility-related. For the same reason, a marginally elevated amount of Co-60 at Station 1 is not considered to be due to plant effluents.

During the month of September, Cs-137 was detected in soil at Station 3. Since no appreciable quantities of Cs-137 were released from the plant during this time, this result is not considered to be related to plant operations.

The presence of several gamma-emitting isotopes found in aquatic sediment in Oyster Creek's discharge canal has already been documented in previous semiannual reports, as well as other publications (Olson et al, 1980). For this reason, Mn-54 activity (June) and Cs-137 activity (August and September) detected at Station 32 at the mouth of the discharge canal are not considered to be abnormal.

An air particulate filter collected at Station A during September revealed a slightly elevated concentration of Sr-89. Similarly, Station C exhibited higher than normal gross alpha activity and Station H had elevated tritium concentration in precipitation in October. All of these stations are background stations and are outside the influence of Oyster Creek. Therefore, these elevated levels of activity are not related to plant operations. Tritium activity in precipitation collected at Station 2 was observed to be slightly higher than normal. However, as has been previously mentioned, this same condition occurred at a background station (Station H) during the same time period and is therefore not considered to be plant related.

A clam sample collected from Station 24 in Barnegat Bay during October exhibited an elevated gross alpha activity. Station 24 lies just east of the Oyster Creek discharge canal. Since some radionuclides have previously been detected in sediment in the discharge canal, the

potential exists that some may find their way, in small quantities, to Barnegat Bay. Any isotopic concentrations in the bay would be concentrated by the clams (Mercenaria mercenaria), themselves being filter feeders. It is possible, then, that this biological characteristic of the clam accounts for the occasionally elevated gross alpha activity.

Finally, a minutely elevated gross beta (soluble) activity was measured in a surface water sample collected at Station 25 during November. The activity measured was 294 pCi/liter while the maximum predicted activity for this station was 292 pCi/liter. With a ten per cent analytical error associated with this analysis, the difference between the measured and expected activity is not considered to be statistically significant and therefore the activity not considered to be abnormal.

In conclusion, no concentrations of radioactivity in the environs of Oyster Creek were found to be abnormal during the reporting period.

## RADIOLOGICAL IMPACT ON MAN

Two principle exposure pathways, inhalation and ingestion, are available to gaseous and liquid effluent isotopes, respectively, in the vicinity of Oyster Creek. Intakes via the inhalation pathway are from gaseous effluents, while the ingestion pathway is via consumption of shellfish from Oyster Creek's discharge canal and Barnegat Bay and consumption of garden vegetables. Additionally, a third means of exposure is from direct radiation from Oyster Creek effluents. The maximum hypothetical exposure to any individual from liquid pathways would occur to someone standing at the offsite boundary on the shore of the discharge canal (direct exposure) consuming shellfish (ingestion). For purposes of this report this hypothetical individual is designated as Receptor #1. Maximum exposure due to gaseous pathways (inhalation, ingestion, and direct radiation) would depend on the predominant wind direction and the location of persons living in a given sector with respect to the plant. The direction and distance for this individual is given in Tables 21 and 22.

The following tables represent the offsite dose summary for the two quarters of the six-month reporting period. The information provided was calculated using the models and methodology outlined in NRC Regulatory Guide 1.109 and proposed NRC Regulatory Guide 1.111. The analysis herein represents the maximum hypothetical liquid and gaseous pathway individual doses (Tables 21, 22, and 23). Also included are the appropriate dose

limits as given in 10CFR50, Appendix I, the age group, and the receptor location. The semiannual estimated dose and percent of applicable limit complete the offsite dose assessment of maximum hypothetical doses for the semiannual period.

For both quarterly periods, the maximum individual exposures resulting from OCNGS operation from all pathways are well below the USNRC limits of 10 CFR 50, Appendix I and in turn, concentrations in environmental media were well below 1% of concentrations in 10 CFR 20, Appendix B, Table II. It should be noted that such low offsite doses are probably the result of 1) the average reactor power level being only 60% of full rated power and 2) the efficient operation of the augmented off-gas system (AOG) during the period.

Federal regulation 40 CFR 190 requires that doses to any real person from uranium fuel cycle activities (including nuclear power plants) will not exceed 25 mrem/year for the whole body and other organs, with the exception of 75 mrem/year for the thyroid. Dose limits were well below those of 40 CFR 190.



TABLE 21

SUMMARY OF MAXIMUM INDIVIDUAL DOSES FOR THE  
PERIOD FROM JULY 1, 1982 THROUGH SEPTEMBER 30, 1982

EFFLUENT	APPLICABLE ORGAN	ESTIMATED DOSE (MREM)	AGE GROUP	LOCATION	
				DIST (m)	DIR (TOWARD)
LIQUID	TOTAL BODY	1.51 E-5	ADULT	RECEPTOR 1	
LIQUID	GI-TRACT	5.16 E-5	ADULT	RECEPTOR 1	
NOBLE GAS	AIR DOSE ( $\gamma$ -MRAD)	4.44 E-7		414	ESE
NOBLE GAS	AIR DOSE ( $\beta$ -MRAD)	1.44 E-8		4022	ESE
NOBLE GAS	TOTAL BODY	7.1 E-9	ALL	966	NNE
NOBLE GAS	SKIN	8.34 E-9	ALL	966	NNE
IODINE & PARTICULATE	THYROID	2.94 E-7	INFANT	2575	SW

TABLE 22

SUMMARY OF MAXIMUM INDIVIDUAL DOSES FOR THE  
PERIOD FROM OCTOBER 1, 1982 THROUGH DECEMBER 31, 1982

EFFLUENT	APPLICABLE ORGAN	ESTIMATED DOSE (MREM)	AGE GROUP	LOCATION	
				DIST (m)	DIR (TOWARD)
LIQUID	TOTAL BODY	3.95 E-6	TEEN	RECEPTOR 1	
LIQUID	GI-TRACT	1.85 E-5	ADULT	RECEPTOR 1	
NOBLE GAS	AIR DOSE ( $\alpha$ -MRAD)	3.27 E-7		414	N
NOBLE GAS	AIR DOSE ( $\beta$ -MRAD)	1.78 E-8		4022	N
NOBLE GAS	TOTAL BODY	3.03 E-13	ALL	966	SE
NOBLE GAS	SKIN	3.56 E-13	ALL	966	SE
IODINE & PARTICULATE	THYROID	5.84 E-7	INFANT	2575	SW

TABLE 23

SUMMARY OF MAXIMUM INDIVIDUAL DOSES FOR THE  
PERIOD FROM JULY 1, 1982 THROUGH DECEMBER 31, 1982

EFFLUENT	APPLICABLE ORGAN	SEMIANNUAL ESTIMATED DOSE (MREM)	ANNUAL & APPLIC. LIMIT	ANNUAL LIMIT (MR)
LIQUID	TOTAL BODY	1.91 E-5	6.0 E-4	3.0
LIQUID	GI-TRACT	7.01 E-5	7.0 E-4	10.0
NOBLE GAS	AIR DOSE ( $\gamma$ -MRAD)	8.16 E-7	8.16 E-6	10.0
NOBLE GAS	AIR DOSE ( $\beta$ -MRAD)	3.22 E-8	1.61 E-7	20.0
NOBLE GAS	TOTAL BODY	7.10 E-9	1.42 E-7	5.0
NOBLE GAS	SKIN	8.34 E-9	5.56 E-8	15.0
IODINE & PARTICULATE	THYROID	8.78 E-7	5.85 E-6	15.0

IV. REFERENCES

#### REFERENCES

- Critchfield, H. J., 1974., General Climatology, pages 86-87, Copyright 1974 by Prentice-Hall, Inc., Englewood Cliffs, New Jersey.
- Olsen, C. R., P. E. Biscaye, H. J. Simpson, R. M. Trier, R. F. Kostyk, R. F. Bopp, and Y. H. Li., 1980. "Reactor-released Radionuclides and Fine-grained Sediment Transport and Accumulation Patterns in Barnegat Bay, New Jersey and Adjacent Shelf Waters." Estuarine and Coastal Marine Science 10: 119-142.