

SHEARON HARRIS NUCLEAR POWER PLANT
RADIOLOGICAL ENVIRONMENTAL OPERATING REPORT
JANUARY - JUNE, 1991

Table of Contents:

	Page
Air Cartridge Samples	1
Air Particulate Samples	13
Drinking Water Samples	37
Fish Samples	61
Food Crop Samples	67
Groundwater Samples	91
Milk Samples	101
Bottom Sediment Samples	137
Shoreline Sediment Samples	139
Surface Water Samples	143
Environmental TLD Samples	171

HABP - 1

12 (10-1)

CONTROL FORMS

(10-03E-03)

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AIR CARTRIDGE SAMPLES - IODINE
(PICOCURIES PER CUBIC METER)

HNPP - 1

FIRST QUARTER, 1991

SR 1134 AT INT SR 1011 - DIXIE PIPELINE (AC-1)

<u>DATE COLLECTED</u>	<u>CUBIC METERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
01/07/91	789.7	< 1.04E-02	(< 1.03E-02)
01/14/91	803.9	< 1.14E-02	(< 1.20E-02)
01/21/91	818.0	< 9.37E-03	(< 1.00E-02)
01/28/91	801.6	< 1.09E-02	(< 7.16E-03)
02/04/91	832.9	< 1.45E-02	(< 1.08E-02)
02/11/91	794.1	< 1.10E-02	(< 1.26E-02)
02/18/91	803.6	< 1.03E-02	(< 8.52E-03)
02/25/91	844.6	< 1.05E-02	(< 1.05E-02)
03/04/91	835.3	< 5.30E-03	(< 1.54E-02)
03/11/91	801.4	< 1.28E-02	(< 1.43E-02)
03/18/91	811.0	< 1.01E-02	(< 8.39E-03)
03/25/91	792.3	< 8.75E-03	(< 1.06E-02)

GRADE (A-5)

CONTROL ACTIVITY

(1.00E-03)

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(1.00E-03)

AIR CARTRIDGE SAMPLES - IODINE
(PICOCURIES PER CUBIC METER)

HNPP - 2

FIRST QUARTER, 1991

SR 1134, 1.4 MI S OF SR 1011 - BARRICADE (AC-2)

<u>DATE</u> <u>COLLECTED</u>	<u>CUBIC METERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
01/07/91	843.5	< 1.38E-02	(< 1.03E-02)
01/14/91	847.9	< 1.17E-02	(< 1.20E-02)
01/21/91	872.0	< 1.14E-02	(< 1.00E-02)
01/28/91	864.8	< 8.14E-03	(< 7.16E-03)
02/04/91	886.4	< 1.14E-02	(< 1.08E-02)
02/11/91	862.5	< 1.17E-02	(< 1.26E-02)
02/18/91	858.9	< 1.18E-02	(< 8.52E-03)
02/25/91	847.1	< 8.96E-03	(< 1.05E-02)
03/04/91	865.5	< 1.03E-02	(< 1.54E-02)
03/11/91	851.3	< 1.04E-02	(< 1.43E-02)
03/18/91	844.2	< 6.86E-03	(< 8.39E-03)
03/25/91	848.5	< 1.53E-02	(< 1.06E-02)

(A-1) E

ACTIVITY

(< 1.04E-03)

(< 1.50E-03)

(< 1.00E-03)

(< 1.10E-03)

(< 1.00E-03)

(< 1.30E-03)

(< 8.50E-03)

(< 1.00E-03)

(< 1.20E-03)

(< 1.40E-03)

(< 8.50E-03)

(< 1.00E-03)

AIR CARTRIDGE SAMPLES - IODINE
(PICOCURIES PER CUBIC METER)

HNPP - 3

FIRST QUARTER, 1991

NEW HILL NEAR 1ST BAPTIST CH, 3.3 MI NNE (AC-4)

<u>DATE</u> <u>COLLECTED</u>	<u>CUBIC METERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
01/07/91	813.3	< 9.94E-03	(< 1.03E-02)
01/14/91	838.6	< 6.81E-03	(< 1.20E-02)
01/21/91	859.8	< 5.77E-03	(< 1.00E-02)
01/28/91	855.8	< 1.06E-02	(< 7.16E-03)
02/04/91	877.0	< 1.05E-02	(< 1.08E-02)
02/11/91	817.7	< 9.89E-03	(< 1.26E-02)
02/18/91	891.7	< 1.04E-02	(< 8.52E-03)
02/25/91	876.3	< 9.99E-03	(< 1.05E-02)
03/04/91	885.1	< 8.44E-03	(< 1.54E-02)
03/11/91	877.2	< 9.85E-03	(< 1.43E-02)
03/18/91	871.5	< 1.26E-02	(< 8.39E-03)
03/25/91	868.8	< 8.63E-03	(< 1.06E-02)

CONTROL ACTIVITY

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(< 1.00E-03)

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AIR CARTRIDGE SAMPLES - IODINE
(PICOCURIES PER CUBIC METER)

HNPP - 4

FIRST QUARTER, 1991

PITTSBORO - CONTROL (AC-5)

<u>DATE COLLECTED</u>	<u>CUBIC METERS</u>	<u>CONTROL ACTIVITY</u>
01/07/91	796.4	(< 1.03E-02)
01/14/91	800.0	(< 1.20E-02)
01/21/91	820.1	(< 1.00E-02)
01/28/91	823.8	(< 7.16E-03)
02/04/91	825.3	(< 1.08E-02)
02/11/91	793.3	(< 1.26E-02)
02/18/91	743.1	(< 8.52E-03)
02/25/91	744.6	(< 1.05E-02)
03/04/91	717.6	(< 1.54E-02)
03/11/91	748.6	(< 1.43E-02)
03/18/91	748.2	(< 8.39E-03)
03/25/91	731.9	(< 1.06E-02)

COLLECT ACTIVITY

(30-33E-03)

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AIR CARTRIDGE SAMPLES - IODINE
(PICOCURIES PER CUBIC METER)

HNPP - 5

FIRST QUARTER, 1991

SPILLWAY ON MAIN RES (AC-26)

<u>DATE COLLECTED</u>	<u>CUBIC METERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
01/07/91	917.2	< 1.04E-02	(< 1.03E-02)
01/14/91	902.5	< 9.83E-03	(< 1.20E-02)
01/21/91	929.5	< 1.12E-02	(< 1.00E-02)
01/28/91	968.2	< 9.00E-03	(< 7.16E-03)
02/04/91	852.3	< 7.43E-03	(< 1.08E-02)
02/11/91	920.8	< 7.54E-03	(< 1.26E-02)
02/18/91	919.7	< 8.32E-03	(< 8.52E-03)
02/25/91	926.7	< 1.17E-02	(< 1.05E-02)
03/04/91	900.4	< 4.93E-03	(< 1.54E-02)
03/11/91	927.9	< 8.86E-03	(< 1.43E-02)
03/18/91	908.5	< 9.63E-03	(< 8.39E-03)
03/25/91	876.9	< 9.37E-03	(< 1.06E-02)

ACTIVITY

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AIR CARTRIDGE SAMPLES - IODINE
(PICOCURIES PER CUBIC METER)

HNPP - 6

FIRST QUARTER, 1991

SSW SECTOR 3.4 MI FROM SITE (AC-47)

<u>DATE</u> <u>COLLECTED</u>	<u>CUBIC METERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
01/07/91	870.2	< 1.06E-02	(< 1.03E-02)
01/14/91	865.2	< 9.92E-03	(< 1.20E-02)
01/21/91	892.6	< 7.87E-03	(< 1.00E-02)
01/28/91	867.8	< 7.20E-03	(< 7.16E-03)
02/04/91	891.4	< 1.21E-02	(< 1.08E-02)
02/11/91	901.5	< 6.99E-03	(< 1.26E-02)
02/18/91	884.9	< 1.24E-02	(< 8.52E-03)
02/25/91	871.2	< 1.23E-02	(< 1.05E-02)
03/04/91	854.0	< 5.21E-03	(< 1.54E-02)
03/11/91	884.3	< 7.74E-03	(< 1.43E-02)
03/18/91	899.6	< 9.88E-03	(< 8.39E-03)
03/25/91	852.9	< 1.12E-02	(< 1.06E-02)

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SECRET ACTIVITY

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AIR CARTRIDGE SAMPLES - IODINE
(PICOCURIES PER CUBIC METER)

HNPP - 7

SECOND QUARTER, 1991

SR 1134 AT INT SR 1011 - DIXIE PIPELINE (AC-1)

<u>DATE</u> <u>COLLECTED</u>	<u>CUBIC METERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
04/01/91	804.9	< 1.08E-02	(< 1.21E-02)
04/08/91	810.6	< 5.04E-03	(< 1.19E-02)
04/15/91	814.3	< 1.01E-02	(< 1.26E-02)
04/22/91	806.3	< 1.27E-02	(< 1.44E-02)
04/29/91	815.9	< 1.21E-01	(< 1.10E-02)
05/06/91	810.1	< 9.39E-03	(< 1.34E-02)
05/13/91	809.6	< 1.33E-02	(< 1.71E-02)
05/20/91	795.9	< 1.11E-02	(< 1.16E-02)
05/28/91	920.1	< 1.15E-02	(< 1.03E-02)
06/03/91	657.9	< 9.29E-03	(< 1.71E-02)
06/10/91	807.1	< 8.53E-03	(< 1.32E-02)
06/17/91	826.9	< 1.18E-02	(< 1.61E-02)
06/24/91	819.1	< 1.14E-02	(< 7.31E-03)

C-3

ACTIVITY

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AIR CARTRIDGE SAMPLES - IODINE
(PICOCURIES PER CUBIC METER)

HNPP - 8

SECOND QUARTER, 1991

SR 1134, 1.4 MI S OF SR 1011 - BARRICADE (AC-2)

<u>DATE</u> <u>COLLECTED</u>	<u>CUBIC METERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
04/01/91	844.5	< 1.12E-02	(< 1.21E-02)
04/08/91	847.2	< 1.17E-02	(< 1.19E-02)
04/15/91	865.1	< 8.87E-03	(< 1.26E-02)
04/22/91	845.3	< 1.12E-02	(< 1.44E-02)
04/29/91	858.5	< 1.20E-02	(< 1.10E-02)
05/06/91	840.1	< 6.93E-03	(< 1.34E-02)
05/13/91	827.7	< 1.35E-02	(< 1.71E-02)
05/20/91	823.0	< 1.48E-02	(< 1.16E-02)
05/28/91	957.6	< 8.47E-03	(< 1.03E-02)
06/03/91	386.5	< 1.21E-02	(< 1.71E-02)
06/10/91	639.9	< 1.56E-02	(< 1.32E-02)
06/17/91	851.7	< 1.24E-02	(< 1.61E-02)
06/24/91	851.9	< 1.10E-02	(< 7.31E-03)

APPENDIX

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AIR CARTRIDGE SAMPLES - IODINE
(PICOCURIES PER CUBIC METER)

HNPP - 9

SECOND QUARTER, 1991

NEW HILL NEAR 1ST BAPTIST CH, 3.3 MI NNE (AC-4)

<u>DATE COLLECTED</u>	<u>CUBIC METERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
04/01/91	895.3	< 7.84E-03	(< 1.21E-02)
04/08/91	894.2	< 9.03E-03	(< 1.19E-02)
04/15/91	904.0	< 9.48E-03	(< 1.26E-02)
04/22/91	891.2	< 7.64E-03	(< 1.44E-02)
04/29/91	911.8	< 1.09E-02	(< 1.10E-02)
05/06/91	902.4	< 1.02E-02	(< 1.34E-02)
05/13/91	895.0	< 8.13E-03	(< 1.71E-02)
05/20/91	878.4	< 8.97E-03	(< 1.16E-02)
05/28/91	1024.0	< 8.56E-03	(< 1.03E-02)
06/03/91	768.8	< 1.00E-02	(< 1.71E-02)
06/10/91	907.8	< 7.24E-03	(< 1.32E-02)
06/17/91	928.2	< 7.10E-03	(< 1.61E-02)
06/24/91	900.9	< 1.24E-02	(< 7.31E-03)

AIR CARTRIDGE SAMPLES - IODINE
(PICOCURIES PER CUBIC METER)

HNPP - 10

SECOND QUARTER, 1991

PITTSBORO - CONTROL (AC-5)

<u>DATE COLLECTED</u>	<u>CUBIC METERS</u>	<u>CONTROL ACTIVITY</u>
04/01/91	718.4	(< 1.21E-02)
04/08/91	730.8	(< 1.19E-02)
04/15/91	728.4	(< 1.26E-02)
04/22/91	747.2	(< 1.44E-02)
04/29/91	735.3	(< 1.10E-02)
05/06/91	732.3	(< 1.34E-02)
05/13/91	548.8	(< 1.71E-02)
05/20/91	712.8	(< 1.16E-02)
05/28/91	843.2	(< 1.03E-02)
06/03/91	620.4	(< 1.71E-02)
06/10/91	740.4	(< 1.32E-02)
06/17/91	668.0	(< 1.61E-02)
06/24/91	738.7	(< 7.31E-03)

AIR CARTRIDGE SAMPLES - IODINE
(PICOCURIES PER CUBIC METER)

HNPP - 11

SECOND QUARTER, 1991

SPILLWAY ON MAIN RES (AC-26)

<u>DATE COLLECTED</u>	<u>CUBIC METERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
04/01/91	856.7	< 1.16E-02	(< 1.21E-02)
04/08/91	888.0	< 1.12E-02	(< 1.19E-02)
04/15/91	870.4	< 8.84E-03	(< 1.26E-02)
04/22/91	875.1	< 1.15E-02	(< 1.44E-02)
04/29/91	875.4	< 1.10E-02	(< 1.10E-02)
05/06/91	882.8	< 1.27E-02	(< 1.34E-02)
05/13/91	846.0	< 1.38E-02	(< 1.71E-02)
05/20/91	797.8	< 1.34E-02	(< 1.16E-02)
05/28/91	864.0	< 1.09E-02	(< 1.03E-02)
06/03/91	670.5	< 1.71E-02	(< 1.71E-02)
06/10/91	861.7	< 7.75E-03	(< 1.32E-02)
06/17/91	872.4	< 1.15E-02	(< 1.61E-02)
06/24/91	867.8	< 8.59E-03	(< 7.31E-03)

AIR CARTRIDGE SAMPLES - IODINE
(PICOCURIES PER CUBIC METER)

HNPP - 12

SECOND QUARTER, 1991

SSW SECTOR 3.4 MI FROM SITE (AC-47)

<u>DATE COLLECTED</u>	<u>CUBIC METERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
04/01/91	850.7	< 8.26E-03	(< 1.21E-02)
04/08/91	870.2	< 8.06E-03	(< 1.19E-02)
04/15/91	868.2	< 8.08E-03	(< 1.26E-02)
04/22/91	864.1	< 7.09E-03	(< 1.44E-02)
04/29/91	873.1	< 7.20E-03	(< 1.10E-02)
05/06/91	886.8	< 1.10E-02	(< 1.34E-02)
05/13/91	265.5	< 3.72E-02	(< 1.71E-02)
05/20/91	875.1	< 9.65E-03	(< 1.16E-02)
05/28/91	1009.0	< 5.81E-03	(< 1.03E-02)
06/03/91	747.2	< 9.57E-03	(< 1.71E-02)
06/10/91	865.2	< 7.62E-03	(< 1.32E-02)
06/17/91	870.5	< 1.18E-02	(< 1.61E-02)
06/24/91	877.7	< 9.59E-03	(< 7.31E-03)

AIR PARTICULATE SAMPLES - BETA
(PICOCURIES PER CUBIC METER)

HNPP - 13

FIRST QUARTER, 1991

SR 1134 AT INT SR 1011 - DIXIE PIPELINE (AP-1)

<u>DATE COLLECTED</u>	<u>CUBIC METERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
01/07/91	789.7	2.35 $\pm$ 0.18 E-02	(1.61 $\pm$ 0.15 E-02)
01/14/91	803.9	6.43 $\pm$ 1.12 E-03	(5.80 $\pm$ 1.09 E-03)
01/21/91	818.0	1.11 $\pm$ 0.13 E-02	(7.89 $\pm$ 1.18 E-03)
01/28/91	801.6	1.71 $\pm$ 0.16 E-02	(1.37 $\pm$ 0.14 E-02)
02/04/91	832.9	1.49 $\pm$ 0.15 E-02	(1.42 $\pm$ 0.14 E-02)
02/11/91	794.1	1.24 $\pm$ 0.14 E-02	(1.30 $\pm$ 0.14 E-02)
02/18/91	803.6	1.50 $\pm$ 0.15 E-02	(1.07 $\pm$ 0.14 E-02)
02/25/91	844.6	1.08 $\pm$ 0.13 E-02	(1.16 $\pm$ 0.14 E-02)
03/04/91	835.3	9.44 $\pm$ 1.25 E-03	(9.91 $\pm$ 1.41 E-03)
03/11/91	801.4	1.95 $\pm$ 0.17 E-02	(1.62 $\pm$ 0.16 E-02)
03/18/91	811.0	1.13 $\pm$ 0.13 E-02	(1.03 $\pm$ 0.14 E-02)
03/25/91	792.3	2.08 $\pm$ 0.17 E-02	(1.89 $\pm$ 0.17 E-02)

AIR PARTICULATE SAMPLES - BETA
(PICOCURIES PER CUBIC METER)

HNPP - 14

FIRST QUARTER, 1991

SR 1134, 1.4 MI S OF SR 1011 - BARRICADE (AP-2)

<u>DATE</u> <u>COLLECTED</u>	<u>CUBIC METERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
01/07/91	843.5	2.21 $\pm$ 0.17 E-02	(1.61 $\pm$ 0.15 E-02)
01/14/91	847.9	5.77 $\pm$ 1.05 E-03	(5.80 $\pm$ 1.09 E-03)
01/21/91	872.0	9.94 $\pm$ 1.22 E-03	(7.89 $\pm$ 1.18 E-03)
01/28/91	864.8	1.40 $\pm$ 0.14 E-02	(1.37 $\pm$ 0.14 E-02)
02/04/91	886.4	1.35 $\pm$ 0.14 E-02	(1.42 $\pm$ 0.14 E-02)
02/11/91	862.5	1.20 $\pm$ 0.13 E-02	(1.30 $\pm$ 0.14 E-02)
02/18/91	858.9	1.25 $\pm$ 0.13 E-02	(1.07 $\pm$ 0.14 E-02)
02/25/91	847.1	1.27 $\pm$ 0.13 E-02	(1.16 $\pm$ 0.14 E-02)
03/04/91	865.5	7.53 $\pm$ 1.14 E-03	(9.91 $\pm$ 1.41 E-03)
03/11/91	851.3	1.64 $\pm$ 0.15 E-02	(1.62 $\pm$ 0.16 E-02)
03/18/91	844.2	9.58 $\pm$ 1.22 E-03	(1.03 $\pm$ 0.14 E-02)
03/25/91	848.5	1.79 $\pm$ 0.15 E-02	(1.89 $\pm$ 0.17 E-02)

AIR PARTICULATE SAMPLES - BETA
(PICOCURIES PER CUBIC METER)

HNPP - 15

FIRST QUARTER, 1991

NEW HILL NEAR 1ST BAPTIST CH, 3.3 MI NNE (AP-4)

<u>DATE</u> <u>COLLECTED</u>	<u>CUBIC METERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
01/07/91	813.3	2.35 ± 0.18 E-02	(1.61 ± 0.15 E-02)
01/14/91	838.6	7.44 ± 1.14 E-03	(5.80 ± 1.09 E-03)
01/21/91	859.8	1.03 ± 0.12 E-02	(7.89 ± 1.18 E-03)
01/28/91	855.8	1.60 ± 0.15 E-02	(1.37 ± 0.14 E-02)
02/04/91	877.0	1.31 ± 0.13 E-02	(1.42 ± 0.14 E-02)
02/11/91	817.7	1.36 ± 0.14 E-02	(1.30 ± 0.14 E-02)
02/18/91	891.7	1.41 ± 0.14 E-02	(1.07 ± 0.14 E-02)
02/25/91	876.3	1.23 ± 0.13 E-02	(1.16 ± 0.14 E-02)
03/04/91	885.1	9.15 ± 1.19 E-03	(9.91 ± 1.41 E-03)
03/11/91	877.2	1.78 ± 0.15 E-02	(1.62 ± 0.16 E-02)
03/18/91	871.5	9.91 ± 1.21 E-03	(1.03 ± 0.14 E-02)
03/25/91	868.8	1.87 ± 0.15 E-02	(1.89 ± 0.17 E-02)

AIR PARTICULATE SAMPLES - BETA
(PICOCURIES PER CUBIC METER)

HNPP - 16

FIRST QUARTER, 1991

PITTSBORO - CONTROL (AP-5)

<u>DATE COLLECTED</u>	<u>CUBIC METERS</u>	<u>CONTROL ACTIVITY</u>
01/07/91	796.4	(1.61 $\pm$ 0.15 E-02)
01/14/91	800.0	(5.80 $\pm$ 1.09 E-03)
01/21/91	820.1	(7.89 $\pm$ 1.18 E-03)
01/28/91	823.8	(1.37 $\pm$ 0.14 E-02)
02/04/91	825.3	(1.42 $\pm$ 0.14 E-02)
02/11/91	793.3	(1.30 $\pm$ 0.14 E-02)
02/18/91	743.1	(1.07 $\pm$ 0.14 E-02)
02/25/91	744.6	(1.16 $\pm$ 0.14 E-02)
03/04/91	717.6	(9.91 $\pm$ 1.41 E-03)
03/11/91	748.6	(1.62 $\pm$ 0.16 E-02)
03/18/91	748.2	(1.03 $\pm$ 0.14 E-02)
03/25/91	731.9	(1.89 $\pm$ 0.17 E-02)

AIR PARTICULATE SAMPLES - BETA
(PICOCURIES PER CUBIC METER)

HNPP - 17

FIRST QUARTER, 1991

SPILLWAY ON MAIN RES (AP-26)

<u>DATE COLLECTED</u>	<u>CUBIC METERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
01/07/91	917.2	1.09 ± 0.12 E-02	(1.61 ± 0.15 E-02)
01/14/91	902.5	5.22 ± 0.97 E-03	(5.80 ± 1.09 E-03)
01/21/91	929.5	7.11 ± 1.05 E-03	(7.89 ± 1.18 E-03)
01/28/91	968.2	7.06 ± 1.03 E-03	(1.37 ± 0.14 E-02)
02/04/91	852.3	1.09 ± 0.13 E-02	(1.42 ± 0.14 E-02)
02/11/91	920.8	1.13 ± 0.12 E-02	(1.30 ± 0.14 E-02)
02/18/91	919.7	1.07 ± 0.12 E-02	(1.07 ± 0.14 E-02)
02/25/91	926.7	8.83 ± 1.12 E-03	(1.16 ± 0.14 E-02)
03/04/91	900.4	5.33 ± 1.00 E-03	(9.91 ± 1.41 E-03)
03/11/91	927.9	1.40 ± 0.13 E-02	(1.62 ± 0.16 E-02)
03/18/91	908.5	6.85 ± 1.04 E-03	(1.03 ± 0.14 E-02)
03/25/91	876.9	1.47 ± 0.14 E-02	(1.89 ± 0.17 E-02)

AIR PARTICULATE SAMPLES - BETA
(PICOCURIES PER CUBIC METER)

HNPP - 18

FIRST QUARTER, 1991

SSW SECTOR 3.4 MI FROM SITE (AP-47)

<u>DATE COLLECTED</u>	<u>CUBIC METERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
01/07/91	870.2	2.07 $\pm$ 0.16 E-02	(1.61 $\pm$ 0.15 E-02)
01/14/91	865.2	7.58 $\pm$ 1.12 E-03	(5.80 $\pm$ 1.09 E-03)
01/21/91	892.6	1.09 $\pm$ 0.12 E-02	(7.89 $\pm$ 1.18 E-03)
01/28/91	867.8	1.86 $\pm$ 0.16 E-02	(1.37 $\pm$ 0.14 E-02)
02/04/91	891.4	1.75 $\pm$ 0.15 E-02	(1.42 $\pm$ 0.14 E-02)
02/11/91	901.5	1.33 $\pm$ 0.13 E-02	(1.30 $\pm$ 0.14 E-02)
02/18/91	884.9	1.35 $\pm$ 0.14 E-02	(1.07 $\pm$ 0.14 E-02)
02/25/91	871.2	1.25 $\pm$ 0.13 E-02	(1.16 $\pm$ 0.14 E-02)
03/04/91	854.0	9.69 $\pm$ 1.24 E-03	(9.91 $\pm$ 1.41 E-03)
03/11/91	884.3	1.64 $\pm$ 0.15 E-02	(1.62 $\pm$ 0.16 E-02)
03/18/91	899.6	8.99 $\pm$ 1.15 E-03	(1.03 $\pm$ 0.14 E-02)
03/25/91	852.9	1.92 $\pm$ 0.16 E-02	(1.89 $\pm$ 0.17 E-02)

AIR PARTICULATE SAMPLES - BETA
(PICOCURIES PER CUBIC METER)

HNPP - 19

SECOND QUARTER, 1991

SR 1134 AT INT SR 1011 - DIXIE PIPELINE (AP-1)

<u>DATE</u> <u>COLLECTED</u>	<u>CUBIC METERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
04/01/91	804.9	1.19 $\pm$ 0.14 E-02	(1.12 $\pm$ 0.14 E-02)
04/08/91	810.6	1.74 $\pm$ 0.16 E-02	(1.36 $\pm$ 0.15 E-02)
04/15/91	814.3	1.24 $\pm$ 0.14 E-02	(1.02 $\pm$ 0.14 E-02)
04/22/91	806.3	1.01 $\pm$ 0.13 E-02	(8.67 $\pm$ 1.28 E-03)
04/29/91	815.9	1.41 $\pm$ 0.14 E-02	(1.23 $\pm$ 0.15 E-02)
05/06/91	810.1	1.45 $\pm$ 0.15 E-02	(1.09 $\pm$ 0.14 E-02)
05/13/91	809.6	1.80 $\pm$ 0.16 E-02	(9.24 $\pm$ 1.58 E-03)
05/20/91	795.9	1.25 $\pm$ 0.14 E-02	(1.17 $\pm$ 0.15 E-02)
05/28/91	920.1	1.05 $\pm$ 0.12 E-02	(7.95 $\pm$ 1.17 E-03)
06/03/91	657.9	1.38 $\pm$ 0.16 E-02	(9.51 $\pm$ 1.51 E-03)
06/10/91	807.1	1.19 $\pm$ 0.14 E-02	(9.83 $\pm$ 1.35 E-03)
06/17/91	826.9	1.35 $\pm$ 0.14 E-02	(1.45 $\pm$ 0.17 E-02)
06/24/91	819.1	9.37 $\pm$ 1.22 E-03	(7.17 $\pm$ 1.20 E-03)

AIR PARTICULATE SAMPLES - BETA
(PICOCURIES PER CUBIC METER)

HNPP - 20

SECOND QUARTER, 1991

SR 1134, 1.4 MI S OF SR 1011 - BARRICADE (AP-2)

<u>DATE COLLECTED</u>	<u>CUBIC METERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
04/01/91	844.5	9.11 $\pm$ 1.21 E-03	(1.12 $\pm$ 0.14 E-02)
04/08/91	847.2	1.35 $\pm$ 0.14 E-02	(1.36 $\pm$ 0.15 E-02)
04/15/91	865.1	1.06 $\pm$ 0.12 E-02	(1.02 $\pm$ 0.14 E-02)
04/22/91	845.3	9.46 $\pm$ 1.22 E-03	(8.67 $\pm$ 1.28 E-03)
04/29/91	858.5	1.23 $\pm$ 0.13 E-02	(1.23 $\pm$ 0.15 E-02)
05/06/91	840.1	1.39 $\pm$ 0.14 E-02	(1.09 $\pm$ 0.14 E-02)
05/13/91	827.7	1.63 $\pm$ 0.15 E-02	(9.24 $\pm$ 1.58 E-03)
05/20/91	823.0	1.04 $\pm$ 0.13 E-02	(1.17 $\pm$ 0.15 E-02)
05/28/91	957.6	9.74 $\pm$ 1.15 E-03	(7.95 $\pm$ 1.17 E-03)
06/03/91	386.5	1.30 $\pm$ 0.23 E-02	(9.51 $\pm$ 1.51 E-03)
06/10/91	639.9	7.27 $\pm$ 1.36 E-03	(9.83 $\pm$ 1.35 E-03)
06/17/91	851.7	1.35 $\pm$ 0.14 E-02	(1.45 $\pm$ 0.17 E-02)
06/24/91	851.9	6.41 $\pm$ 1.05 E-03	(7.17 $\pm$ 1.20 E-03)

AIR PARTICULATE SAMPLES - BETA
(PICOCURIES PER CUBIC METER)

HNPP - 21

SECOND QUARTER, 1991

NEW HILL NEAR 1ST BAPTIST CH, 3.3 MI NNE (AP-4)

<u>DATE</u> <u>COLLECTED</u>	<u>CUBIC METERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
04/01/91	895.3	1.17 $\pm$ 0.13 E-02	(1.12 $\pm$ 0.14 E-02)
04/08/91	894.2	1.47 $\pm$ 0.14 E-02	(1.36 $\pm$ 0.15 E-02)
04/15/91	904.0	1.05 $\pm$ 0.12 E-02	(1.02 $\pm$ 0.14 E-02)
04/22/91	891.2	9.72 $\pm$ 1.19 E-03	(8.67 $\pm$ 1.28 E-03)
04/29/91	911.8	1.27 $\pm$ 0.13 E-02	(1.23 $\pm$ 0.15 E-02)
05/06/91	902.4	1.37 $\pm$ 0.13 E-02	(1.09 $\pm$ 0.14 E-02)
05/13/91	895.0	1.64 $\pm$ 0.14 E-02	(9.24 $\pm$ 1.58 E-03)
05/20/91	878.4	1.21 $\pm$ 0.13 E-02	(1.17 $\pm$ 0.15 E-02)
05/28/91	1024.0	1.00 $\pm$ 0.11 E-02	(7.95 $\pm$ 1.17 E-03)
06/03/91	768.8	9.71 $\pm$ 1.32 E-03	(9.51 $\pm$ 1.51 E-03)
06/10/91	907.8	9.39 $\pm$ 1.16 E-03	(9.83 $\pm$ 1.35 E-03)
06/17/91	928.2	1.14 $\pm$ 0.12 E-02	(1.45 $\pm$ 0.17 E-02)
06/24/91	900.9	7.29 $\pm$ 1.05 E-03	(7.17 $\pm$ 1.20 E-03)

AIR PARTICULATE SAMPLES - BETA
(PICOCURIES PER CUBIC METER)

HNPP - 22

SECOND QUARTER, 1991

PITTSBORO - CONTROL (AP-5)

<u>DATE COLLECTED</u>	<u>CUBIC METERS</u>	<u>CONTROL ACTIVITY</u>
04/01/91	718.4	(1.12 $\pm$ 0.14 E-02)
04/08/91	730.8	(1.36 $\pm$ 0.15 E-02)
04/15/91	728.4	(1.02 $\pm$ 0.14 E-02)
04/22/91	747.2	(8.67 $\pm$ 1.28 E-03)
04/29/91	735.3	(1.23 $\pm$ 0.15 E-02)
05/06/91	732.3	(1.09 $\pm$ 0.14 E-02)
05/13/91	548.8	(9.24 $\pm$ 1.58 E-03)
05/20/91	712.8	(1.17 $\pm$ 0.15 E-02)
05/28/91	843.2	(7.95 $\pm$ 1.17 E-03)
06/03/91	620.4	(9.51 $\pm$ 1.51 E-03)
06/10/91	740.4	(9.83 $\pm$ 1.35 E-03)
06/17/91	668.0	(1.45 $\pm$ 0.17 E-02)
06/24/91	738.7	(7.17 $\pm$ 1.20 E-03)

AIR PARTICULATE SAMPLES - BETA
(PICOCURIES PER CUBIC METER)

HNPP - 23

SECOND QUARTER, 1991

SPILLWAY ON MAIN RES (AP-26)

<u>DATE COLLECTED</u>	<u>CUBIC METERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
04/01/91	856.7	7.21 $\pm$ 1.11 E-03	(1.12 $\pm$ 0.14 E-02)
04/08/91	888.0	1.19 $\pm$ 0.13 E-02	(1.36 $\pm$ 0.15 E-02)
04/15/91	870.4	7.89 $\pm$ 1.12 E-03	(1.02 $\pm$ 0.14 E-02)
04/22/91	875.1	5.87 $\pm$ 1.02 E-03	(8.67 $\pm$ 1.28 E-03)
04/29/91	875.4	1.09 $\pm$ 0.12 E-02	(1.23 $\pm$ 0.15 E-02)
05/06/91	882.8	7.70 $\pm$ 1.11 E-03	(1.09 $\pm$ 0.14 E-02)
05/13/91	846.0	1.35 $\pm$ 0.14 E-02	(9.24 $\pm$ 1.58 E-03)
05/20/91	797.8	4.22 $\pm$ 1.06 E-03	(1.17 $\pm$ 0.15 E-02)
05/28/91	864.0	6.24 $\pm$ 1.07 E-03	(7.95 $\pm$ 1.17 E-03)
06/03/91	670.5	8.69 $\pm$ 1.40 E-03	(9.51 $\pm$ 1.51 E-03)
06/10/91	861.7	7.65 $\pm$ 1.12 E-03	(9.83 $\pm$ 1.35 E-03)
06/17/91	872.4	8.50 $\pm$ 1.15 E-03	(1.45 $\pm$ 0.17 E-02)
06/24/91	867.8	4.62 $\pm$ 0.94 E-03	(7.17 $\pm$ 1.20 E-03)

AIR PARTICULATE SAMPLES - BETA
(PICOCURIES PER CUBIC METER)

HNPP - 24

SECOND QUARTER, 1991

SSW SECTOR 3.4 MI FROM SITE (AP-47)

<u>DATE</u> <u>COLLECTED</u>	<u>CUBIC METERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
04/01/91	850.7	9.62 $\pm$ 1.22 E-03	(1.12 $\pm$ 0.14 E-02)
04/08/91	870.2	1.55 $\pm$ 0.14 E-02	(1.36 $\pm$ 0.15 E-02)
04/15/91	868.2	1.14 $\pm$ 0.13 E-02	(1.02 $\pm$ 0.14 E-02)
04/22/91	864.1	1.06 $\pm$ 0.12 E-02	(8.67 $\pm$ 1.28 E-03)
04/29/91	873.1	1.43 $\pm$ 0.14 E-02	(1.23 $\pm$ 0.15 E-02)
05/06/91	886.8	1.42 $\pm$ 0.14 E-02	(1.09 $\pm$ 0.14 E-02)
05/13/91	265.5	1.63 $\pm$ 0.31 E-02	(9.24 $\pm$ 1.58 E-03)
05/20/91	875.1	1.02 $\pm$ 0.13 E-02	(1.17 $\pm$ 0.15 E-02)
05/28/91	1009.0	9.57 $\pm$ 1.11 E-03	(7.95 $\pm$ 1.17 E-03)
06/03/91	747.7	1.17 $\pm$ 0.14 E-02	(9.51 $\pm$ 1.51 E-03)
06/10/91	865.2	1.00 $\pm$ 0.12 E-02	(9.83 $\pm$ 1.35 E-03)
06/17/91	870.5	1.47 $\pm$ 0.14 E-02	(1.45 $\pm$ 0.17 E-02)
06/24/91	877.7	8.56 $\pm$ 1.13 E-03	(7.17 $\pm$ 1.20 E-03)

AIR PARTICULATE SAMPLES
(PICOCURIES PER CUBIC METER)

HNPP - 25

FIRST QUARTER, 1991

SR 1134 AT INT SR 1011 - DIXIE PIPELINE (AP-1)
(COMPOSITE SAMPLE)

GAMMA SPECTROMETRY

VOLUME: 9728.4 CUBIC METERS

ISOTOPE

SAMPLE ACTIVITY

CONTROL ACTIVITY

BE-7

7.94 $\pm$ 0.67 E-02

(9.69 $\pm$ 0.76 E-02)

AIR PARTICULATE SAMPLES
(PICOCURIES PER CUBIC METER)

HNPP - 26

FIRST QUARTER, 1991

SR 1134, 1.4 MI S OF SR 1011 - BARRICADE (AP-2)
(COMPOSITE SAMPLE)

GAMMA SPECTROMETRY

VOLUME: 10292.6 CUBIC METERS

ISOTOPE

SAMPLE ACTIVITY

CONTROL ACTIVITY

BE-7

7.88 $\pm$ 0.65 E-02

(9.69 $\pm$ 0.76 E-02)

AIR PARTICULATE SAMPLES
(PICOCURIES PER CUBIC METER)

HNPP - 27

FIRST QUARTER, 1991

NEW HILL NEAR 1ST BAPTIST CH, 3.3 MI NNE (AP-4)
(COMPOSITE SAMPLE)

GAMMA SPECTROMETRY

VOLUME: 10332.8 CUBIC METERS

ISOTOPE

SAMPLE ACTIVITY

CONTROL ACTIVITY

BE-7

6.94 $\pm$ 0.58 E-02

(9.69 $\pm$ 0.76 E-02)

AIR PARTICULATE SAMPLES
(PICOCURIES PER CUBIC METER)

HNPP - 28

FIRST QUARTER, 1991

PITTSBORO - CONTROL (AP-5)
(COMPOSITE SAMPLE)

GAMMA SPECTROMETRY

VOLUME: 9292.9 CUBIC METERS

ISOTOPE

CONTROL ACTIVITY

BE-7

(9.69 $\pm$ 0.76 E-02)

AIR PARTICULATE SAMPLES
(PICOCURIES PER CUBIC METER)

HNPP - 29

FIRST QUARTER, 1991

SPILLWAY ON MAIN RES (AP-26)
(COMPOSITE SAMPLE)

GAMMA SPECTROMETRY

VOLUME: 10950.6 CUBIC METERS

ISOTOPE

SAMPLE ACTIVITY

CONTROL ACTIVITY

BE-7

5.51 $\pm$ 0.62 E-02

(9.69 $\pm$ 0.76 E-02)

AIR PARTICULATE SAMPLES
(PICOCURIES PER CUBIC METER)

HNPP - 30

FIRST QUARTER, 1991

SSW SECTOR 3.4 MI FROM SITE (AP-47)
(COMPOSITE SAMPLE)

GAMMA SPECTROMETRY

VOLUME: 10535.6 CUBIC METERS

<u>ISOTOPE</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
BE-7	1.03 $\pm$ 0.07 E-01	(9.69 $\pm$ 0.76 E-02)
RA-226	3.28 $\pm$ 3.15 E-03	(LESS THAN LLD)

AIR PARTICULATE SAMPLES
(PICOCURIES PER CUBIC METER)

HNPP - 31

SECOND QUARTER, 1991

SR 1134 AT INT SR 1011 - DIXIE PIPELINE (AP-1)
(COMPOSITE SAMPLE)

GAMMA SPECTROMETRY

VOLUME: 10498.7 CUBIC METERS

<u>ISOTOPE</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
BE-7	$8.12 \pm 0.75 \text{ E-02}$	$(6.06 \pm 0.56 \text{ E-02})$
K-40	$1.76 \pm 0.30 \text{ E-02}$	(LESS THAN LLD)

AIR PARTICULATE SAMPLES
(PICOCURIES PER CUBIC METER)

HNPP - 32

SECOND QUARTER, 1991

SR 1134, 1.4 MI S OF SR 1011 - BARRICADE (AP-2)
(COMPOSITE SAMPLE)

GAMMA SPECTROMETRY

VOLUME: 10439 CUBIC METERS

ISOTOPE

SAMPLE ACTIVITY

CONTROL ACTIVITY

BE-7

$7.08 \pm 0.68 \text{ E-02}$

$(6.06 \pm 0.56 \text{ E-02})$

AIR PARTICULATE SAMPLES
(PICOCURIES PER CUBIC METER)

HNPP - 33

SECOND QUARTER, 1991

NEW HILL NEAR 1ST BAPTIST CH, 3.3 MI NNE (AP-4)
(COMPOSITE SAMPLE)

GAMMA SPECTROMETRY

VOLUME: 11792 CUBIC METERS

<u>ISOTOPE</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
BE-7	$7.75 \pm 0.55 \text{ E-02}$	$(6.06 \pm 0.56 \text{ E-02})$
RA-226	$5.00 \pm 4.02 \text{ E-03}$	(LESS THAN LLD)

AIR PARTICULATE SAMPLES
(PICOCURIES PER CUBIC METER)

HNPP - 34

SECOND QUARTER, 1991

PITTSBORO - CONTROL (AP-5)
(COMPOSITE SAMPLE)

GAMMA SPECTROMETRY

VOLUME: 9264.7 CUBIC METERS

ISOTOPE

CONTROL ACTIVITY

BE-7

(6.06 $\pm$ 0.56 E-02)

AIR PARTICULATE SAMPLES
(PICOCURIES PER CUBIC METER)

HNPP - 35

SECOND QUARTER, 1991

SPILLWAY ON MAIN RES (AP-26)
(COMPOSITE SAMPLE)

GAMMA SPECTROMETRY

VOLUME: 11028.6 CUBIC METERS

ISOTOPE

SAMPLE ACTIVITY

CONTROL ACTIVITY

BE-7

$4.51 \pm 0.49 \text{ E-02}$

$(6.06 \pm 0.56 \text{ E-02})$

AIR PARTICULATE SAMPLES
(PICOCURIES PER CUBIC METER)

HNPP - 36

SECOND QUARTER, 1991

SSW SECTOR 3.4 MI FROM SITE (AP-47)
(COMPOSITE SAMPLE)

GAMMA SPECTROMETRY

VOLUME: 10723.3 CUBIC METERS

ISOTOPE

SAMPLE ACTIVITY

CONTROL ACTIVITY

BE-7

6.54 $\pm$ 0.69 E-02

(6.06 $\pm$ 0.56 E-02)

DRINKING WATER SAMPLES - IODINE
(PICOCURIES PER LITER)

HNPP - 37

FIRST QUARTER, 1991

CAPE FEAR PLANT INTAKE - CONTROL (DW-38)

<u>DATE COLLECTED</u>	<u>LITERS</u>	<u>CONTROL ACTIVITY</u>
01/07/91	4.0	(< 4.09E-01)
01/14/91	4.0	(< 6.30E-01)
01/21/91	4.0	(< 4.04E-01)
01/28/91	4.0	(< 6.19E-01)
02/04/91	4.0	(< 4.12E-01)
02/11/91	4.0	(< 5.97E-01)
02/18/91	4.0	(< 4.03E-01)
02/25/91	4.0	(< 5.87E-01)
03/04/91	4.0	(< 5.95E-01)
03/11/91	4.0	(< 4.74E-01)
03/18/91	4.0	(< 4.08E-01)
03/25/91	4.0	(< 3.99E-01)

DRINKING WATER SAMPLES - IODINE
(PICOCURIES PER LITER)

HNPP - 38

FIRST QUARTER, 1991

LILLINGTON - CAPE FEAR RIVER (DW-40)

<u>DATE COLLECTED</u>	<u>LITERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
01/07/91	4.0	< 6.02E-01	(< 4.09E-01)
01/14/91	4.0	< 5.99E-01	(< 6.30E-01)
01/21/91	4.0	< 5.98E-01	(< 4.04E-01)
01/28/91	4.0	< 4.18E-01	(< 6.19E-01)
02/04/91	4.0	< 6.12E-01	(< 4.12E-01)
02/11/91	4.0	< 4.03E-01	(< 5.97E-01)
02/18/91	4.0	< 5.73E-01	(< 4.03E-01)
02/25/91	4.0	< 4.17E-01	(< 5.87E-01)
03/04/91	4.0	< 4.06E-01	(< 5.95E-01)
03/11/91	4.0	< 4.79E-01	(< 4.74E-01)
03/18/91	4.0	< 4.13E-01	(< 4.08E-01)
03/25/91	4.0	< 4.30E-01	(< 3.99E-01)

DRINKING WATER SAMPLES - IODINE
(PICOCURIES PER LITER)

HNPP - 39

FIRST QUARTER, 1991

WATER TREATMENT BLDG AT HARRIS PLANT (DW-51)

<u>DATE COLLECTED</u>	<u>LITERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
01/07/91	4.0	< 3.98E-01	(< 4.09E-01)
01/14/91	4.0	< 4.02E-01	(< 6.30E-01)
01/21/91	4.0	< 4.31E-01	(< 4.04E-01)
01/28/91	4.0	< 6.57E-01	(< 6.19E-01)
02/04/91	4.0	< 6.48E-01	(< 4.12E-01)
02/11/91	4.0	< 4.34E-01	(< 5.97E-01)
02/18/91	4.0	< 3.67E-01	(< 4.03E-01)
02/25/91	4.0	< 4.02E-01	(< 5.87E-01)
03/04/91	4.0	< 3.81E-01	(< 5.95E-01)
03/11/91	4.0	< 3.75E-01	(< 4.74E-01)
03/18/91	4.0	< 3.75E-01	(< 4.08E-01)
03/25/91	4.0	< 3.72E-01	(< 3.99E-01)

DRINKING WATER SAMPLES - IODINE
(PICOCURIES PER LITER)

HNPP - 40

SECOND QUARTER, 1991

CAPE FEAR PLANT INTAKE - CONTROL (DW-38)

<u>DATE COLLECTED</u>	<u>LITERS</u>	<u>CONTROL ACTIVITY</u>
04/01/91	4.0	(< 4.01E-01)
04/08/91	4.0	(< 4.09E-01)
04/15/91	4.0	(< 4.06E-01)
04/22/91	4.0	(< 4.04E-01)
04/29/91	4.0	(< 4.01E-01)
05/06/91	4.0	(< 4.38E-01)
05/13/91	4.0	(< 4.12E-01)
05/20/91	4.0	(< 4.03E-01)
05/28/91	4.0	(< 4.09E-01)
06/03/91	4.0	(< 4.07E-01)
06/10/91	4.0	(< 3.90E-01)
06/17/91	4.0	(< 3.65E-01)
06/24/91	4.0	(< 3.86E-01)

DRINKING WATER SAMPLES - IODINE
(PICOCURIES PER LITER)

HNPP - 41

SECOND QUARTER, 1991

LILLINGTON - CAPE FEAR RIVER (DW-40)

<u>DATE COLLECTED</u>	<u>LITERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
04/01/91	4.0	< 4.30E-01	(< 4.01E-01)
04/08/91	4.0	< 4.36E-01	(< 4.09E-01)
04/15/91	4.0	< 4.34E-01	(< 4.06E-01)
04/22/91	4.0	< 4.12E-01	(< 4.04E-01)
04/29/91	4.0	< 4.09E-01	(< 4.01E-01)
05/06/91	4.0	< 4.50E-01	(< 4.38E-01)
05/13/91	4.0	< 4.42E-01	(< 4.12E-01)
05/20/91	4.0	< 4.49E-01	(< 4.03E-01)
05/28/91	4.0	< 4.43E-01	(< 4.09E-01)
06/03/91	4.0	< 4.69E-01	(< 4.07E-01)
06/10/91	4.0	< 4.00E-01	(< 3.90E-01)
06/17/91	4.0	< 4.17E-01	(< 3.65E-01)
06/24/91	4.0	< 3.95E-01	(< 3.86E-01)

DRINKING WATER SAMPLES - IODINE
(PICOCURIES PER LITER)

HNPP - 42

SECOND QUARTER, 1991

WATER TREATMENT BLDG AT HARRIS PLANT (DW-51)

<u>DATE COLLECTED</u>	<u>LITERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
04/01/91	4.0	< 3.72E-01	(< 4.01E-01)
04/08/91	4.0	< 3.79E-01	(< 4.09E-01)
04/15/91	4.0	< 3.81E-01	(< 4.06E-01)
04/22/91	4.0	< 3.78E-01	(< 4.04E-01)
04/29/91	4.0	< 3.77E-01	(< 4.01E-01)
05/06/91	4.0	< 4.12E-01	(< 4.38E-01)
05/13/91	4.0	< 3.82E-01	(< 4.12E-01)
05/20/91	4.0	< 3.78E-01	(< 4.03E-01)
05/28/91	4.0	< 3.82E-01	(< 4.09E-01)
06/03/91	4.0	< 3.80E-01	(< 4.07E-01)
06/10/91	4.0	< 3.58E-01	(< 3.90E-01)
06/17/91	4.0	< 3.65E-01	(< 3.65E-01)
06/24/91	4.0	< 3.62E-01	(< 3.86E-01)

DRINKING WATER SAMPLES
(PICOCURIES PER LITER)

HNPP - 43

JANUARY, 1991

CAPE FEAR PLANT INTAKE - CONTROL (DW-38)
(COMPOSITE SAMPLE)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>CONTROL ACTIVITY</u>
GROSS BETA	1.000	(3.52 $\pm$ 0.77 E+00)
TRITIUM	0.005	(< 9.01E+02)

GAMMA SPECTROMETRY

VOLUME: 1 LITERS

<u>ISOTOPE</u>	<u>CONTROL ACTIVITY</u>
K-40	(5.60 $\pm$ 3.52 E+01)
TL-208	(1.44 $\pm$ 1.31 E+00)

DRINKING WATER SAMPLES
(PICOCURIES PER LITER)

HNPP - 44

JANUARY, 1991

LILLINGTON - CAPE FEAR RIVER (DW-40)
(COMPOSITE SAMPLE)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
GROSS BETA	1.000	$3.91 \pm 0.80 \text{ E}+00$	$(3.52 \pm 0.77 \text{ E}+00)$
TRITIUM	0.005	$< 9.01\text{E}+02$	$(< 9.01\text{E}+02)$

GAMMA SPECTROMETRY

VOLUME:

1 LITERS

<u>ISOTOPE</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
K-40	$6.02 \pm 2.93 \text{ E}+01$	$(5.60 \pm 3.52 \text{ E}+01)$
TL-208	LESS THAN LLD	$(1.44 \pm 1.31 \text{ E}+00)$
PB-212	$3.17 \pm 1.47 \text{ E}+00$	(LESS THAN LLD)

DRINKING WATER SAMPLES
(PICOCURIES PER LITER)

HNPP - 45

JANUARY, 1991

WATER TREATMENT BLDG AT HARRIS PLANT (DW-51)
(COMPOSITE SAMPLE)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
GROSS BETA	1.000	$2.99 \pm 0.71 \text{ E}+00$	$(3.52 \pm 0.77 \text{ E}+00)$
TRITIUM	0.005	$4.41 \pm 0.64 \text{ E}+03$	$(< 9.01 \text{ E}+02)$

GAMMA SPECTROMETRY

VOLUME: 1 LITERS

<u>ISOTOPE</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
K-40	LESS THAN LLD	$(5.60 \pm 3.52 \text{ E}+01)$
TL-208	$2.83 \pm 1.76 \text{ E}+00$	$(1.44 \pm 1.31 \text{ E}+00)$
RA-226	$4.72 \pm 3.38 \text{ E}+01$	(LESS THAN LLD)

DRINKING WATER SAMPLES
(PICOCURIES PER LITER)

HNPP - 46

FEBRUARY, 1991

CAPE FEAR PLANT INTAKE - CONTROL (DW-38)
(COMPOSITE SAMPLE)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>CONTROL ACTIVITY</u>
GROSS BETA	1.000	(3.25 $\pm$ 0.77 E+00)
TRITIUM	0.005	(< 9.10E+02)

GAMMA SPECTROMETRY

VOLUME: 1 LITERS

<u>ISOTOPE</u>	<u>CONTROL ACTIVITY</u>
K-40	(2.13 $\pm$ 0.30 E+02)
PB-212	(2.18 $\pm$ 1.76 E+00)

DRINKING WATER SAMPLES
(PICOCURIES PER LITER)

HNPP - 47

FEBRUARY, 1991

LILLINGTON - CAPE FEAR RIVER (DW-40)
(COMPOSITE SAMPLE)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
GROSS BETA	1.000	$2.94 \pm 0.74 \text{ E}+00$	$(3.25 \pm 0.77 \text{ E}+00)$
TRITIUM	0.005	$< 9.10\text{E}+02$	$(< 9.10\text{E}+02)$

GAMMA SPECTROMETRY

VOLUME: 1 LITERS

<u>ISOTOPE</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
K-40	$8.20 \pm 3.06 \text{ E}+01$	$(2.13 \pm 0.30 \text{ E}+02)$
PB-212	$5.56 \pm 2.27 \text{ E}+00$	$(2.18 \pm 1.76 \text{ E}+00)$

DRINKING WATER SAMPLES
(PICOCURIES PER LITER)

HNPP - 48

FEBRUARY, 1991

WATER TREATMENT BLDG AT HARRIS PLANT (DW-51)
(COMPOSITE SAMPLE)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
GROSS BETA	1.000	$3.21 \pm 0.75 \text{ E}+00$	$(3.25 \pm 0.77 \text{ E}+00)$
TRITIUM	0.005	$6.20 \pm 0.68 \text{ E}+03$	$(< 9.10\text{E}+02)$

GAMMA SPECTROMETRY

VOLUME: 1 LITERS

<u>ISOTOPE</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
K-40	LESS THAN LLD	$(2.13 \pm 0.30 \text{ E}+02)$
PB-212	LESS THAN LLD	$(2.18 \pm 1.76 \text{ E}+00)$
BI-214	$5.88 \pm 4.37 \text{ E}+00$	(LESS THAN LLD)

DRINKING WATER SAMPLES
(PICOCURIES PER LITER)

HNPP - 49

MARCH, 1991

CAPE FEAR PLANT INTAKE - CONTROL (DW-38)
(COMPOSITE SAMPLE)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>CONTROL ACTIVITY</u>
GROSS BETA	1.000	(3.06 ± 0.75 E+00)
TRITIUM	0.005	(< 9.12E+02)

GAMMA SPECTROMETRY

VOLUME: 1 LITERS

ISOTOPE

CONTROL ACTIVITY

ALL GAMMA EMITTERS LESS THAN LLD

DRINKING WATER SAMPLES
(PICOCURIES PER LITER)

HNPP - 50

MARCH, 1991

LILLINGTON - CAPE FEAR RIVER (DW-40)
(COMPOSITE SAMPLE)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
GROSS BETA	1.000	$3.29 \pm 0.76 \text{ E}+00$	$(3.06 \pm 0.75 \text{ E}+00)$
TRITIUM	0.005	$< 9.12\text{E}+02$	$(< 9.12\text{E}+02)$

GAMMA SPECTROMETRY

VOLUME: 1 LITERS

<u>ISOTOPE</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
K-40	$5.84 \pm 3.02 \text{ E}+01$	(LESS THAN LLD)
PB-212	$6.47 \pm 3.09 \text{ E}+00$	(LESS THAN LLD)
RA-226	$4.28 \pm 3.00 \text{ E}+01$	(LESS THAN LLD)

DRINKING WATER SAMPLES
(PICOCURIES PER LITER)

HNPP - 51

MARCH, 1991

WATER TREATMENT BLDG AT HARRIS PLANT (DW-51)
(COMPOSITE SAMPLE)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
GROSS BETA	1.000	$2.82 \pm 0.70 \text{ E}+00$	$(3.06 \pm 0.75 \text{ E}+00)$
TRITIUM	0.005	$6.96 \pm 0.69 \text{ E}+03$	$(< 9.12\text{E}+02)$

GAMMA SPECTROMETRY

VOLUME: 1 LITERS

ISOTOPE

SAMPLE ACTIVITY CONTROL ACTIVITY

ALL GAMMA EMITTERS LESS THAN LLD

DRINKING WATER SAMPLES
(PICOCURIES PER LITER)

HNPP - 52

APRIL, 1991

CAPE FEAR PLANT INTAKE - CONTROL (DW-38)
(COMPOSITE SAMPLE)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>CONTROL ACTIVITY</u>
GROSS BETA	1.000	(2.59 ± 0.72 E+00)
TRITIUM	0.005	(< 9.22E+02)

GAMMA SPECTROMETRY

VOLUME: 1 LITERS

<u>ISOTOPE</u>	<u>CONTROL ACTIVITY</u>
K-40	(6.72 ± 3.36 E+01)
PB-212	(3.29 ± 1.94 E+00)
RA-226	(3.01 ± 2.85 E+01)

DRINKING WATER SAMPLES
(PICOCURIES PER LITER)

HNPP - 53

APRIL, 1991

LILLINGTON - CAPE FEAR RIVER (DW-40)
(COMPOSITE SAMPLE)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
GROSS BETA	1.000	$3.47 \pm 0.79 \text{ E}+00$	$(2.59 \pm 0.72 \text{ E}+00)$
TRITIUM	0.005	$< 9.22\text{E}+02$	$(< 9.22\text{E}+02)$

GAMMA SPECTROMETRY

VOLUME: 1 LITERS

<u>ISOTOPE</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
K-40	LESS THAN LLD	$(6.72 \pm 3.36 \text{ E}+01)$
PB-212	LESS THAN LLD	$(3.29 \pm 1.94 \text{ E}+00)$
RA-226	LESS THAN LLD	$(3.01 \pm 2.85 \text{ E}+01)$

DRINKING WATER SAMPLES
(PICOCURIES PER LITER)

HNPP - 54

APRIL, 1991

WATER TREATMENT BLDG AT HARRIS PLANT (DW-51)
(COMPOSITE SAMPLE)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
GROSS BETA	1.000	$2.63 \pm 0.71 \text{ E}+00$	$(2.59 \pm 0.72 \text{ E}+00)$
TRITIUM	0.005	$6.20 \pm 0.68 \text{ E}+03$	$(< 9.22\text{E}+02)$

GAMMA SPECTROMETRY

VOLUME: 1 LITERS

<u>ISOTOPE</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
K-40	$6.93 \pm 3.31 \text{ E}+01$	$(6.72 \pm 3.36 \text{ E}+01)$
PB-212	$6.36 \pm 2.34 \text{ E}+00$	$(3.29 \pm 1.94 \text{ E}+00)$
RA-226	LESS THAN LLD	$(3.01 \pm 2.85 \text{ E}+01)$

DRINKING WATER SAMPLES
(PICOCURIES PER LITER)

HNPP - 55

MAY, 1991

CAPE FEAR PLANT INTAKE - CONTROL (DW-38)
(COMPOSITE SAMPLE)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>CONTROL ACTIVITY</u>
GROSS BETA	1.000	$(3.08 \pm 0.77 \text{ E}+00)$
TRITIUM	0.005	$(< 9.33\text{E}+02)$

GAMMA SPECTROMETRY

VOLUME: 1 LITERS

ISOTOPE

<u>ISOTOPE</u>	<u>CONTROL ACTIVITY</u>
PB-212	$(3.16 \pm 2.24 \text{ E}+00)$

DRINKING WATER SAMPLES
(PICOCURIES PER LITER)

HNPP - 56

MAY, 1991

LILLINGTON - CAPE FEAR RIVER (DW-40)
(COMPOSITE SAMPLE)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
GROSS BETA	1.000	$2.95 \pm 0.76 \text{ E}+00$	$(3.08 \pm 0.77 \text{ E}+00)$
TRITIUM	0.005	$< 9.33\text{E}+02$	$(< 9.33\text{E}+02)$

GAMMA SPECTROMETRY

VOLUME:

1 LITERS

<u>ISOTOPE</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
K-40	$4.33 \pm 2.22 \text{ E}+01$	(LESS THAN LLD)
PB-212	LESS THAN LLD	$(3.16 \pm 2.24 \text{ E}+00)$

DRINKING WATER SAMPLES
(PICOCURIES PER LITER)

HNPP - 57

MAY, 1991

WATER TREATMENT BLDG AT HARRIS PLANT (DW-51)
(COMPOSITE SAMPLE)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
GROSS BETA	1.000	$2.60 \pm 0.72 \text{ E}+00$	$(3.08 \pm 0.77 \text{ E}+00)$
TRITIUM	0.005	$4.43 \pm 0.66 \text{ E}+03$	$(< 9.33\text{E}+02)$

GAMMA SPECTROMETRY

VOLUME: 1 LITERS

<u>ISOTOPE</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
PB-212	LESS THAN LLD	$(3.16 \pm 2.24 \text{ E}+00)$

DRINKING WATER SAMPLES
(PICOCURIES PER LITER)

HNPP - 58

JUNE, 1991

CAPE FEAR PLANT INTAKE - CONTROL (DW-38)
(COMPOSITE SAMPLE)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>CONTROL ACTIVITY</u>
GROSS BETA	1.000	(6.03 $\pm$ 1.14 E+00)
TRITIUM	0.005	(< 9.47E+02)

GAMMA SPECTROMETRY

VOLUME:

1 LITERS

ISOTOPE

CONTROL ACTIVITY

K-40	(9.09 $\pm$ 2.91 E+01)
PB-212	(4.23 $\pm$ 2.07 E+00)

DRINKING WATER SAMPLES
(PICOCURIES PER LITER)

HNPP - 59

JUNE, 1991

LILLINGTON - CAPE FEAR RIVER (DW-40)
(COMPOSITE SAMPLE)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
GROSS BETA	1.000	$5.49 \pm 1.10 \text{ E}+00$	$(6.03 \pm 1.14 \text{ E}+00)$
TRITIUM	0.005	$< 9.47\text{E}+02$	$(< 9.47\text{E}+02)$

GAMMA SPECTROMETRY

VOLUME:

1 LITERS

<u>ISOTOPE</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
K-40	$2.72 \pm 2.13 \text{ E}+01$	$(9.09 \pm 2.91 \text{ E}+01)$
PB-212	LESS THAN LLD	$(4.23 \pm 2.07 \text{ E}+00)$
RA-226	$4.66 \pm 3.08 \text{ E}+01$	(LESS THAN LLD)

DRINKING WATER SAMPLES
(PICOCURIES PER LITER)

HNPP - 60

JUNE, 1991

WATER TREATMENT BLDG AT HARRIS PLANT (DW-51)
(COMPOSITE SAMPLE)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
GROSS BETA	1.000	$3.21 \pm 0.86 \text{ E}+00$	$(6.03 \pm 1.14 \text{ E}+00)$
TRITIUM	0.005	$4.96 \pm 0.67 \text{ E}+03$	$(< 9.47\text{E}+02)$

GAMMA SPECTROMETRY

VOLUME: 1 LITERS

<u>ISOTOPE</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
K-40	$3.19 \pm 2.41 \text{ E}+01$	$(9.09 \pm 2.91 \text{ E}+01)$
PB-212	LESS THAN LLD	$(4.23 \pm 2.07 \text{ E}+00)$

BOTTOM FEEDER SAMPLES
(PICOCURIES PER GRAM)

HNPP - 61

FIRST SEMI-ANNUAL, 1991

SITE VARIES WITHIN HARRIS LAKE (F1-44)
(DATE COLLECTED: 05/07/91)

CATFISH, EDIBLE PORTION

GAMMA SPECTROMETRY

MASS: 506.7 GRAMS FRESH

ISOTOPE

SAMPLE ACTIVITY

CONTROL ACTIVITY

K-40

$3.96 \pm 0.30 \text{ E}+00$

$(3.76 \pm 0.37 \text{ E}+00)$

BOTTOM FEEDER SAMPLES
(PICOCURIES PER GRAM)

HNPP - 62

FIRST SEMI-ANNUAL, 1991

SITE VARIES ABOVE BUCKHORN DAM - CONTROL (F1-45)
(DATE COLLECTED: 05/07/91)

CATFISH, EDIBLE PORTION

GAMMA SPECTROMETRY

MASS: 496.8 GRAMS FRESH

ISOTOPE

CONTROL ACTIVITY

K-40

(3.76 $\pm$ 0.37 E+00)

FREE SWIMMER SAMPLES
(PICOCURIES PER GRAM)

HNPP - 63

FIRST SEMI-ANNUAL, 1991

SITE VARIES WITHIN HARRIS LAKE (F2-44)
(DATE COLLECTED: 05/07/91)

SUNFISH, EDIBLE PORTION

GAMMA SPECTROMETRY

MASS: 666.6 GRAMS FRESH

ISOTOPE

SAMPLE ACTIVITY

CONTROL ACTIVITY

K-40

$3.36 \pm 0.23 \text{ E}+00$

$(5.11 \pm 0.36 \text{ E}+00)$

FREE SWIMMER SAMPLES
(PICOCURIES PER GRAM)

HNPP - 64

FIRST SEMI-ANNUAL, 1991

SITE VARIES ABOVE BUCKHORN DAM - CONTROL (F2-45)
(DATE COLLECTED: 05/07/91)

SUNFISH, EDIBLE PORTION

GAMMA SPECTROMETRY

MASS: 460.8 GRAMS FRESH

ISOTOPE

CONTROL ACTIVITY

K-40

(5.11 $\pm$ 0.36 E+00)

FREE SWIMMER SAMPLES
(PICOCURIES PER GRAM)

HNPP - 65

FIRST SEMI-ANNUAL, 1991

SITE VARIES WITHIN HARRIS LAKE (F2-44)
(DATE COLLECTED: 05/07/91)

LARGEMOUTH BASS, EDIBLE PORTION

GAMMA SPECTROMETRY

MASS: 453.4 GRAMS FRESH

ISOTOPE

SAMPLE ACTIVITY

CONTROL ACTIVITY

K-40

3.69 $\pm$ 0.34 E+00

(3.96 $\pm$ 0.36 E+00)

FREE SWIMMER SAMPLES
(PICOCURIES PER GRAM)

HNPP - 66

FIRST SEMI-ANNUAL, 1991

SITE VARIES ABOVE BUCKHORN DAM - CONTROL (F2-45)
(DATE COLLECTED: 05/07/91)

LARGEMOUTH BASS, EDIBLE PORTION

GAMMA SPECTROMETRY

MASS: 506.7 GRAMS FRESH

ISOTOPE

CONTROL ACTIVITY

K-40

(3.96 $\pm$ 0.36 E+00)

FOOD CROP SAMPLES
(PICOCURIES PER GRAM)

HNPP - 67

JANUARY, 1991

PITTSBORO - CONTROL (FC-5)
(DATE COLLECTED: 01/22/91)

COLLARDS

GAMMA SPECTROMETRY

MASS: 457.7 GRAMS WET

ISOTOPE

CONTROL ACTIVITY

K-40	(3.63 ± 0.29 E+00)
I-131	(< 1.67E-02)
CS-134	(< 2.66E-02)
CS-137	(< 2.72E-02)
TL-208	(2.41 ± 0.85 E-02)
PB-212	(1.05 ± 0.15 E-01)

FOOD CROP SAMPLES
(PICOCURIES PER GRAM)

HNPP - 68

JANUARY, 1991

RD 1167 1.7 MI NNW (GOODWIN) (FC-55)
(DATE COLLECTED: 01/22/91)

COLLARDS

GAMMA SPECTROMETRY

MASS: 476 GRAMS WET

<u>ISOTOPE</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
K-40	$2.66 \pm 0.17 \text{ E}+00$	$(3.63 \pm 0.29 \text{ E}+00)$
I-131	$< 1.77\text{E}-02$	$(< 1.67\text{E}-02)$
CS-134	$< 1.96\text{E}-02$	$(< 2.66\text{E}-02)$
CS-137	$< 1.78\text{E}-02$	$(< 2.72\text{E}-02)$
TL-208	LESS THAN LLD	$(2.41 \pm 0.85 \text{ E}-02)$
PB-212	LESS THAN LLD	$(1.05 \pm 0.15 \text{ E}-01)$

FOOD CROP SAMPLES
(PICOCURIES PER GRAM)

HNPP - 69

JANUARY, 1991

RD 1189 1.7 MI NNE (WILKINS OR MORRIS) (FC-54)
(DATE COLLECTED: 01/22/91)

TURNIPS AND GREENS

GAMMA SPECTROMETRY

MASS: 537.6 GRAMS WET

<u>ISOTOPE</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
BE-7	$6.45 \pm 0.84 \text{ E-01}$	(NOT REQUIRED)
K-40	$2.78 \pm 0.24 \text{ E+00}$	(NOT REQUIRED)
I-131	$< 1.38\text{E-02}$	(NOT REQUIRED)
CS-134	$< 2.30\text{E-02}$	(NOT REQUIRED)
CS-137	$< 2.11\text{E-02}$	(NOT REQUIRED)
TL-208	$2.82 \pm 0.95 \text{ E-02}$	(NOT REQUIRED)
PB-212	$4.72 \pm 1.47 \text{ E-02}$	(NOT REQUIRED)

FOOD CROP SAMPLES
(PICOCURIES PER GRAM)

HNPP - 70

FEBRUARY, 1991

PITTSBORO - CONTROL (FC-5)
(DATE COLLECTED: 02/27/91)

COLLARDS

GAMMA SPECTROMETRY

MASS:

549 GRAMS WET

ISOTOPE

CONTROL ACTIVITY

BE-7

(2.75 $\pm$ 0.59 E-01)

K-40

(3.29 $\pm$ 0.19 E+00)

I-131

(< 1.45E-02)

CS-134

(< 1.72E-02)

CS-137

(< 1.61E-02)

PB-212

(4.04 $\pm$ 1.71 E-02)

FOOD CROP SAMPLES
(PICOCURIES PER GRAM)

HNPP - 71

FEBRUARY, 1991

RD 1167 1.7 MI NNW (GOODWIN) (FC-55)
(DATE COLLECTED: 02/27/91)

COLLARDS

GAMMA SPECTROMETRY

MASS: 548.8 GRAMS WET

<u>ISOTOPE</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
BE-7	$6.65 \pm 0.61 \text{ E-01}$	$(2.75 \pm 0.59 \text{ E-01})$
K-40	LESS THAN LLD	$(3.29 \pm 0.19 \text{ E+00})$
I-131	$< 1.53\text{E-02}$	$(< 1.45\text{E-02})$
CS-134	$< 2.01\text{E-02}$	$(< 1.72\text{E-02})$
CS-137	$< 1.80\text{E-02}$	$(< 1.61\text{E-02})$
PB-212	$2.68 \pm 1.17 \text{ E-02}$	$(4.04 \pm 1.71 \text{ E-02})$

FOOD CROP SAMPLES
(PICOCURIES PER GRAM)

HNPP - 72

FEBRUARY, 1991

PITTSBORO - CONTROL (FC-5)
(DATE COLLECTED: 02/27/91)

TURNIPS AND GREENS

GAMMA SPECTROMETRY

MASS: 499.1 GRAMS WET

ISOTOPE

CONTROL ACTIVITY

BE-7	(7.53 ± 0.66 E-01)
K-40	(4.65 ± 0.17 E+00)
I-131	(< 1.42E-02)
CS-134	(< 1.51E-02)
CS-137	(< 1.57E-02)
TL-208	(1.81 ± 0.72 E-02)
PB-212	(5.79 ± 1.14 E-02)
BI-214	(2.08 ± 1.61 E-02)

FOOD CROP SAMPLES
(PICOCURIES PER GRAM)

HNPP - 73

FEBRUARY, 1991

RD 1189 1.7 MI NNE (WILKINS OR MORRIS) (FC-54)
(DATE COLLECTED: 02/27/91)

TURNIPS AND GREENS

GAMMA SPECTROMETRY

MASS: 510.7 GRAMS WET

<u>ISOTOPE</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
BE-7	$8.71 \pm 0.91 \text{ E-01}$	$(7.53 \pm 0.66 \text{ E-01})$
K-40	$2.71 \pm 0.25 \text{ E+00}$	$(4.65 \pm 0.17 \text{ E+00})$
I-131	$< 1.53\text{E-02}$	$(< 1.42\text{E-02})$
CS-134	$< 2.02\text{E-02}$	$(< 1.51\text{E-02})$
CS-137	$< 2.33\text{E-02}$	$(< 1.57\text{E-02})$
TL-208	LESS THAN LLD	$(1.81 \pm 0.72 \text{ E-02})$
PB-212	$7.86 \pm 1.54 \text{ E-02}$	$(5.79 \pm 1.14 \text{ E-02})$
BI-214	LESS THAN LLD	$(2.08 \pm 1.61 \text{ E-02})$

FOOD CROP SAMPLES
(PICOCURIES PER GRAM)

HNPP - 74

FEBRUARY, 1991

RD 1167 1.7 MI NNW (GOODWIN) (FC-55)
(DATE COLLECTED: 02/27/91)

TURNIPS AND GREENS

GAMMA SPECTROMETRY

MASS: 531.7 GRAMS WET

<u>ISOTOPE</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
BE-7	LESS THAN LLD	(7.53 $\pm$ 0.66 E-01)
K-40	3.82 $\pm$ 0.17 E+00	(4.65 $\pm$ 0.17 E+00)
I-131	< 1.38E-02	(< 1.42E-02)
CS-134	< 1.66E-02	(< 1.51E-02)
CS-137	< 1.60E-02	(< 1.57E-02)
TL-208	LESS THAN LLD	(1.81 $\pm$ 0.72 E-02)
PB-212	2.98 $\pm$ 1.10 E-02	(5.79 $\pm$ 1.14 E-02)
BI-214	LESS THAN LLD	(2.08 $\pm$ 1.61 E-02)

FOOD CROP SAMPLES
(PICOCURIES PER GRAM)

HNPP - 75

MARCH, 1991

PITTSBORO - CONTROL (FC-5)
(DATE COLLECTED: 03/27/91)

COLLARDS

GAMMA SPECTROMETRY

MASS: 503.4 GRAMS WET

ISOTOPE

CONTROL ACTIVITY

BE-7	(2.78 $\pm$ 0.51 E-01)
K-40	(3.30 $\pm$ 0.19 E-01)
I-131	(< 1.67E-02)
CS-134	(< 1.77E-02)
CS-137	(< 1.77E-02)
TL-208	(3.47 $\pm$ 0.92 E-02)
PB-212	(8.30 $\pm$ 1.69 E-02)
BI-212	(1.74 $\pm$ 0.51 E-01)
BI-214	(2.84 $\pm$ 1.66 E-02)

FOOD CROP SAMPLES
(PICOCURIES PER GRAM)

HNPP - 76

MARCH, 1991

PITTSBORO - CONTROL (FC-5)
(DATE COLLECTED: 03/27/91)

MUSTARD GREENS

GAMMA SPECTROMETRY

MASS: 515.9 GRAMS WET

ISOTOPE

CONTROL ACTIVITY

K-40	(4.28 ± 0.19 E+00)
I-131	(< 1.35E-02)
CS-134	(< 1.47E-02)
CS-137	(< 1.44E-02)
TL-208	(5.36 ± 0.80 E-02)
PB-212	(7.76 ± 0.13 E-03)

FOOD CROP SAMPLES
(PICOCURIES PER GRAM)

HNPP - 77

MARCH, 1991

RD 1189 1.7 MI NNE (WILKINS OR MORRIS) (FC-54)
(DATE COLLECTED: 03/27/91)

TURNIPS AND GREENS

GAMMA SPECTROMETRY

MASS: 410.7 GRAMS WET

<u>ISOTOPE</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
BE-7	$2.16 \pm 0.53 \text{ E-01}$	(NOT REQUIRED)
K-40	$3.48 \pm 0.19 \text{ E+00}$	(NOT REQUIRED)
I-131	$< 1.58\text{E-02}$	(NOT REQUIRED)
CS-134	$< 1.79\text{E-02}$	(NOT REQUIRED)
CS-137	$< 2.01\text{E-02}$	(NOT REQUIRED)
TL-208	$4.08 \pm 1.01 \text{ E-02}$	(NOT REQUIRED)
PB-212	$9.95 \pm 1.49 \text{ E-02}$	(NOT REQUIRED)

FOOD CROP SAMPLES
(PICOCURIES PER GRAM)

HNPP - 78

APRIL, 1991

PITTSBORO - CONTROL (FC-5)
(DATE COLLECTED: 04/30/91)

CABBAGE

GAMMA SPECTROMETRY

MASS: 608 GRAMS WET

ISOTOPE

CONTROL ACTIVITY

BE-7	(3.98 $\pm$ 1.25 E-02)
K-40	(1.28 $\pm$ 0.05 E+00)
I-131	(< 3.29E-02)
CS-134	(< 4.13E-03)
CS-137	(< 4.20E-03)
PB-212	(8.55 $\pm$ 2.80 E-03)

FOOD CROP SAMPLES
(PICOCURIES PER GRAM)

HNPP - 79

APRIL, 1991

PITTSBORO - CONTROL (FC-5)
(DATE COLLECTED: 04/30/91)

COLLARDS

GAMMA SPECTROMETRY

MASS:

586 GRAMS WET

ISOTOPE

CONTROL ACTIVITY

BE-7	(1.18 $\pm$ 0.35 E-01)
K-40	(4.50 $\pm$ 0.18 E+00)
I-131	(< 1.20E-02)
CS-134	(< 1.33E-02)
CS-137	(< 1.43E-02)
TL-208	(2.07 $\pm$ 0.68 E-02)
PB-212	(4.80 $\pm$ 1.00 E-02)
BI-214	(2.41 $\pm$ 1.14 E-02)



FOOD CROP SAMPLES
(PICOCURIES PER GRAM)

HNPP - 80

MAY, 1991

PITTSBORO - CONTROL (FC-5)
(DATE COLLECTED: 05/22/91)

CABBAGE

GAMMA SPECTROMETRY

MASS: 548.5 GRAMS WET

ISOTOPE

CONTROL ACTIVITY

BE-7	(4.12 $\pm$ 0.44 E-01)
K-40	(1.85 $\pm$ 0.12 E+00)
I-131	(< 1.15E-02)
CS-134	(< 1.32E-02)
CS-137	(1.79 $\pm$ 0.42 E-02)

FOOD CROP SAMPLES
(PICOCURIES PER GRAM)

HNPP - 81

MAY, 1991

RD 1189 1.7 MI NNE (WILKINS OR MORRIS) (FC-54)
(DATE COLLECTED: 05/22/91)

CABBAGE

GAMMA SPECTROMETRY

MASS: 520.4 GRAMS WET

<u>ISOTOPE</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
BE-7	8.03 $\pm$ 4.45 E-02	(4.12 $\pm$ 0.44 E-01)
K-40	3.83 $\pm$ 0.16 E+00	(1.85 $\pm$ 0.12 E+00)
I-131	< 1.16E-02	(< 1.15E-02)
CS-134	< 1.51E-02	(< 1.32E-02)
CS-137	< 1.55E-02	(1.79 $\pm$ 0.42 E-02)
TL-208	4.01 $\pm$ 0.92 E-02	(LESS THAN LLD)
PB-212	8.81 $\pm$ 1.08 E-02	(LESS THAN LLD)
RA-226	1.76 $\pm$ 1.38 E-01	(LESS THAN LLD)

FOOD CROP SAMPLES
(PICOCURIES PER GRAM)

HNPP - 82

MAY, 1991

RD 1167 1.7 MI NNW (GOODWIN) (FC-55)
(DATE COLLECTED: 05/22/91)

CABBAGE

GAMMA SPECTROMETRY

MASS: 529.1 GRAMS WET

<u>ISOTOPE</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
BE-7	$3.58 \pm 0.66 \text{ E-01}$	$(4.12 \pm 0.44 \text{ E-01})$
K-40	$1.80 \pm 0.14 \text{ E+00}$	$(1.85 \pm 0.12 \text{ E+00})$
I-131	$< 1.78\text{E-02}$	$(< 1.15\text{E-02})$
CS-134	$< 1.48\text{E-02}$	$(< 1.32\text{E-02})$
CS-137	$5.35 \pm 0.92 \text{ E-02}$	$(1.79 \pm 0.42 \text{ E-02})$

FOOD CROP SAMPLES
(PICOCURIES PER GRAM)

HNPP - 83

MAY, 1991

RD 1167 1.7 MI NNW (GOODWIN) (FC-55)
(DATE COLLECTED: 05/22/91)

MUSTARD GREENS

GAMMA SPECTROMETRY

MASS: 521.9 GRAMS WET

<u>ISOTOPE</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
BE-7	3.83 $\pm$ 0.56 E-01	(NOT REQUIRED)
K-40	4.49 $\pm$ 0.18 E+00	(NOT REQUIRED)
I-131	< 1.21E-02	(NOT REQUIRED)
CS-134	< 1.46E-02	(NOT REQUIRED)
CS-137	4.61 $\pm$ 0.94 E-02	(NOT REQUIRED)

FOOD CROP SAMPLES
(PICOCURIES PER GRAM)

HNPP - 84

MAY, 1991

PITTSBORO - CONTROL (FC-5)
(DATE COLLECTED: 05/22/91)

BROCCOLI

GAMMA SPECTROMETRY

MASS: 522.1 GRAMS WET

ISOTOPE

CONTROL ACTIVITY

BE-7

(2.59 $\pm$ 0.50 E-01)

K-40

(1.50 $\pm$ 0.11 E+00)

I-131

(< 1.14E-02)

CS-134

(< 1.13E-02)

CS-137

(< 1.41E-02)

PB-212

(2.08 $\pm$ 1.33 E-02)

FOOD CROP SAMPLES
(PICOCURIES PER GRAM)

HNPP - 85

MAY, 1991

RD 1189 1.7 MI NNE (WILKINS OR MORRIS) (FC-54)
(DATE COLLECTED: 05/22/91)

BROCCOLI

GAMMA SPECTROMETRY

MASS: 347.4 GRAMS WET

<u>ISOTOPE</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
BE-7	LESS THAN LLD	(2.59 ± 0.50 E-01)
K-40	5.40 ± 0.25 E+00	(1.50 ± 0.11 E+00)
I-131	< 1.71E-02	(< 1.14E-02)
CS-134	< 2.12E-02	(< 1.13E-02)
CS-137	< 2.25E-02	(< 1.41E-02)
PB-212	3.28 ± 1.70 E-02	(2.08 ± 1.33 E-02)
BI-214	5.51 ± 2.26 E-02	(LESS THAN LLD)

FOOD CROP SAMPLES
(PICOCURIES PER GRAM)

HNPP - 86

JUNE, 1991

PITTSBORO - CONTROL (FC-5)
(DATE COLLECTED: 06/28/91)

CABBAGE

GAMMA SPECTROMETRY

MASS: 591.9 GRAMS WET

ISOTOPE

CONTROL ACTIVITY

BE-7	(3.25 $\pm$ 0.53 E-01)
K-40	(2.49 $\pm$ 0.14 E+00)
I-131	(< 1.35E-02)
CS-134	(< 1.58E-02)
CS-137	(< 1.49E-02)
TL-208	(1.02 $\pm$ 0.91 E-02)
PB-212	(4.43 $\pm$ 1.69 E-02)

FOOD CROP SAMPLES
(PICOCURIES PER GRAM)

HNPP - 87

JUNE, 1991

RD 1189 1.7 MI NNE (WILKINS OR MORRIS) (FC-54)
(DATE COLLECTED: 06/28/91)

CABBAGE

GAMMA SPECTROMETRY

MASS: 616.8 GRAMS WET

<u>ISOTOPE</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
BE-7	$1.51 \pm 0.38 \text{ E-01}$	$(3.25 \pm 0.53 \text{ E-01})$
K-40	$5.00 \pm 0.16 \text{ E+00}$	$(2.49 \pm 0.14 \text{ E+00})$
I-131	$< 1.04\text{E-02}$	$(< 1.35\text{E-02})$
CS-134	$< 1.23\text{E-02}$	$(< 1.58\text{E-02})$
CS-137	$< 1.25\text{E-02}$	$(< 1.49\text{E-02})$
TL-208	$5.48 \pm 0.65 \text{ E-02}$	$(1.02 \pm 0.91 \text{ E-02})$
PB-212	$1.73 \pm 0.13 \text{ E-01}$	$(4.43 \pm 1.69 \text{ E-02})$
RA-226	$2.85 \pm 1.35 \text{ E-01}$	(LESS THAN LLD)

FOOD CROP SAMPLES
(PICOCURIES PER GRAM)

HNPP - 88

JUNE, 1991

RD 1167 1.7 MI NNW (GOODWIN) (FC-55)
(DATE COLLECTED: 06/28/91)

CABBAGE

GAMMA SPECTROMETRY

MASS: 690.5 GRAMS WET

<u>ISOTOPE</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
BE-7	$1.52 \pm 0.38 \text{ E-01}$	$(3.25 \pm 0.53 \text{ E-01})$
K-40	$3.22 \pm 0.14 \text{ E+00}$	$(2.49 \pm 0.14 \text{ E+00})$
I-131	$< 8.81\text{E-03}$	$(< 1.35\text{E-02})$
CS-134	$< 1.24\text{E-02}$	$(< 1.58\text{E-02})$
CS-137	$< 1.20\text{E-02}$	$(< 1.49\text{E-02})$
TL-208	$1.61 \pm 0.56 \text{ E-02}$	$(1.02 \pm 0.91 \text{ E-02})$
PB-212	$7.03 \pm 0.84 \text{ E-02}$	$(4.43 \pm 1.69 \text{ E-02})$

FOOD CROP SAMPLES
(PICOCURIES PER GRAM)

HNPP - 89

JUNE, 1991

PITTSBORO - CONTROL (FC-5)
(DATE COLLECTED: 06/28/91)

BROCCOLI

GAMMA SPECTROMETRY

MASS: 580.7 GRAMS WET

ISOTOPE

CONTROL ACTIVITY

BE-7	(1.97 ± 0.39 E-01)
K-40	(2.05 ± 0.15 E+00)
I-131	(< 1.16E-02)
CS-134	(< 1.35E-02)
CS-137	(< 1.61E-02)
TL-208	(5.72 ± 0.77 E-02)
PB-212	(1.65 ± 0.11 E-01)

FOOD CROP SAMPLES
(PICOCURIES PER GRAM)

HNPP - 90

JUNE, 1991

RD 1189 1.7 MI NNE (WILKINS OR MORRIS) (FC-54)
(DATE COLLECTED: 06/28/91)

BROCCOLI .

GAMMA SPECTROMETRY

MASS: 655.3 GRAMS WET

<u>ISOTOPE</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
BE-7	$1.89 \pm 0.39 \text{ E-01}$	$(1.97 \pm 0.39 \text{ E-01})$
K-40	$4.47 \pm 0.14 \text{ E+00}$	$(2.05 \pm 0.15 \text{ E+00})$
I-131	$< 9.75\text{E-03}$	$(< 1.16\text{E-02})$
CS-134	$< 1.28\text{E-02}$	$(< 1.35\text{E-02})$
CS-137	$< 1.24\text{E-02}$	$(< 1.61\text{E-02})$
TL-208	$2.82 \pm 0.71 \text{ E-02}$	$(5.72 \pm 0.77 \text{ E-02})$
PB-212	$9.52 \pm 1.10 \text{ E-02}$	$(1.65 \pm 0.11 \text{ E-01})$

GROUNDWATER SAMPLES
(PICOCURIES PER LITER)

HNPP - 91

FIRST QUARTER, 1991

DEEP WELL NEAR DIABASE DIKES (GW-39)
(DATE COLLECTED: 02/28/91)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
TRITIUM	0.005	< 9.03E+02	(NOT REQUIRED)

GAMMA SPECTROMETRY

VOLUME: 1 LITERS

<u>ISOTOPE</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
PB-212	6.74 $\pm$ 2.60 E+00	(NOT REQUIRED)



GROUNDWATER SAMPLES
(PICOCURIES PER LITER)

HNPP - 92

FIRST QUARTER, 1991

0.4 MI SSW SECTOR N BANK ESW INTAKE (GW-57)
(DATE COLLECTED: 02/28/91)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
TRITIUM	0.005	< 9.03E+02	(NOT REQUIRED)

GAMMA SPECTROMETRY

VOLUME:

1 LITERS

<u>ISOTOPE</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
PB-212	8.15 $\pm$ 3.13 E+00	(NOT REQUIRED)
RA-226	4.13 $\pm$ 3.10 E+01	(NOT REQUIRED)

GROUNDWATER SAMPLES
(PICOCURIES PER LITER)

HNPP - 93

FIRST QUARTER, 1991

0.5 MI WSW SECTOR N BANK ESW INTAKE (GW-58)
(DATE COLLECTED: 02/28/91)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
TRITIUM	0.005	< 9.03E+02	(NOT REQUIRED)

GAMMA SPECTROMETRY

VOLUME: 1 LITERS

<u>ISOTOPE</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
PB-214	3.43 ± 3.21 E+00	(NOT REQUIRED)

GROUNDWATER SAMPLES
(PICOCURIES PER LITER)

HNPP - 94

FIRST QUARTER, 1991

0.5 MI NNE SECTOR (NEAR CONSTRUCTION RD) (GW-59)
(DATE COLLECTED: 02/28/91)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
TRITIUM	0.005	< 9.03E+02	(NOT REQUIRED)

GAMMA SPECTROMETRY

VOLUME: 1 LITERS

ISOTOPE

SAMPLE ACTIVITY CONTROL ACTIVITY

ALL GAMMA EMITTERS LESS THAN LLD

GROUNDWATER SAMPLES
(PICOCURIES PER LITER)

HNPP - 95

FIRST QUARTER, 1991

0.5 MI ESE SECTOR W BANK OF THOMAS CREEK (GW-60)
(DATE COLLECTED: 02/28/91)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
TRITIUM	0.005	< 9.03E+02	(NOT REQUIRED)

GAMMA SPECTROMETRY

VOLUME: 1 LITERS

ISOTOPE

SAMPLE ACTIVITY CONTROL ACTIVITY

ALL GAMMA EMITTERS LESS THAN LLD

GROUNDWATER SAMPLES
(PICOCURIES PER LITER)

HNPP - 96

SECOND QUARTER, 1991

DEEP WELL NEAR DIABASE DIKES (GW-39)
(DATE COLLECTED: 06/30/91)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
TRITIUM	0.005	< 9.47E+02	(NOT REQUIRED)

GAMMA SPECTROMETRY

VOLUME: 1 LITERS

<u>ISOTOPE</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
K-40	3.13 $\pm$ 2.97 E+01	(NOT REQUIRED)

GROUNDWATER SAMPLES
(PICOCURIES PER LITER)

HNPP - 97

SECOND QUARTER, 1991

0.4 MI SSW SECTOR N BANK ESW INTAKE (GW-57)
(DATE COLLECTED: 06/30/91)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
TRITIUM	0.005	< 9.47E+02	(NOT REQUIRED)

GAMMA SPECTROMETRY

VOLUME: 1 LITERS

<u>ISOTOPE</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
RA-226	3.41 ± 3.16 E+01	(NOT REQUIRED)

GROUNDWATER SAMPLES
(PICOCURIES PER LITER)

HNPP - 98

SECOND QUARTER, 1991

0.5 MI WSW SECTOR N BANK ESW INTAKE (GW-58)
(DATE COLLECTED: 06/30/91)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
TRITIUM	0.005	< 9.47E+02	(NOT REQUIRED)

GAMMA SPECTROMETRY

VOLUME: 1 LITERS

<u>ISOTOPE</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
PB-212	2.35 $\pm$ 2.15 E+00	(NOT REQUIRED)

GROUNDWATER SAMPLES
(PICOCURIES PER LITER)

HNPP - 99

SECOND QUARTER, 1991

0.5 MI NNE SECTOR (NEAR CONSTRUCTION RD) (GW-59)
(DATE COLLECTED: 06/30/91)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
TRITIUM	0.005	< 9.47E+02	(NOT REQUIRED)

GAMMA SPECTROMETRY

VOLUME: 1 LITERS

ISOTOPE

SAMPLE ACTIVITY CONTROL ACTIVITY

ALL GAMMA EMITTERS LESS THAN LLD

GROUNDWATER SAMPLES
(PICOCURIES PER LITER)

HNPP - 100

SECOND QUARTER, 1991

0.5 MI ESE SECTOR W BANK OF THOMAS CREEK (GW-60)
(DATE COLLECTED: 06/30/91)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
TRITIUM	0.005	< 9.47E+02	(NOT REQUIRED)

GAMMA SPECTROMETRY

VOLUME: 1 LITERS

ISOTOPE

SAMPLE ACTIVITY CONTROL ACTIVITY

ALL GAMMA EMITTERS LESS THAN LLD

MILK SAMPLES
(PICOCURIES PER LITER)

HNPP - 101

January 8, 1991

PITTSBORO - CONTROL (MK-5)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>CONTROL ACTIVITY</u>
I-131	4.0	(< 5.78E-01)

GAMMA SPECTROMETRY

VOLUME:

1 LITERS

ISOTOPE

CONTROL ACTIVITY

K-40	(1.51 ± 0.06 E+03)
BI-212	(1.87 ± 1.57 E+01)

MILK SAMPLES
(PICOCURIES PER LITER)

HNPP - 102

January 8, 1991

SR 1402 - MAPLE KNOLL DAIRY (MK-42)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
I-131	4.0	< 5.94E-01	(< 5.78E-01)

GAMMA SPECTROMETRY

VOLUME: 1 LITERS

<u>ISOTOPE</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
K-40	1.65 $\pm$ 0.05 E+03	(1.51 $\pm$ 0.06 E+03).
PB-212	8.97 $\pm$ 3.80 E+00	(LESS THAN LLD)
BI-212	LESS THAN LLD	(1.87 $\pm$ 1.57 E+01)

MILK SAMPLES
(PICOCURIES PER LITER)

HNPP - 103

January 8, 1991

SR 1134 - GOODWIN'S DAIRY (MK-43)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
I-131	4.0	< 4.01E-01	(< 5.78E-01)

GAMMA SPECTROMETRY

VOLUME: 1 LITERS

<u>ISOTOPE</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
K-40	1.34 $\pm$ 0.05 E+03	(1.51 $\pm$ 0.06 E+03)
BI-212	LESS THAN LLD	(1.87 $\pm$ 1.57 E+01)

MILK SAMPLES
(PICOCURIES PER LITER)

HNPP - 104

January 22, 1991

PITTSBORO - CONTROL (MK-5)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>CONTROL ACTIVITY</u>
I-131	4.0	(< 6.06E-01)

GAMMA SPECTROMETRY

VOLUME:

1 LITERS .

ISOTOPE

CONTROL ACTIVITY

K-40

(1.41 $\pm$ 0.06 E+03)

MILK SAMPLES
(PICOCURIES PER LITER)

HNPP - 105

January 22, 1991

SR 1402 - MAPLE KNOLL DAIRY (MK-42)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
I-131	4.0	< 4.02E-01	(< 6.06E-01)

GAMMA SPECTROMETRY

VOLUME: 1 LITERS

<u>ISOTOPE</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
K-40	1.53 $\pm$ 0.06 E+03	(1.41 $\pm$ 0.06 E+03)
PB-212	1.51 $\pm$ 0.45 E+01	(LESS THAN LLD)

MILK SAMPLES
(PICOCURIES PER LITER)

HNPP - 106

January 22, 1991

SR 1134 - GOODWIN'S DAIRY (MK-43)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
I-131	4.0	< 5.95E-01	(< 6.06E-01)

GAMMA SPECTROMETRY

VOLUME: 1 LITERS

<u>ISOTOPE</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
K-40	1.26 $\pm$ 0.05 E+03	(1.41 $\pm$ 0.06 E+03)
RA-226	5.18 $\pm$ 5.11 E+01	(LESS THAN LLD)

MILK SAMPLES
(PICOCURIES PER LITER)

HNPP - 107

February 5, 1991

PITTSBORO - CONTROL (MK-5)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>CONTROL ACTIVITY</u>
I-131	4.0	(< 4.00E-01)

GAMMA SPECTROMETRY

VOLUME:

1 LITERS

ISOTOPE

CONTROL ACTIVITY

K-40	(1.53 ± 0.06 E+03)
PB-212	(5.80 ± 3.24 E+00)

MILK SAMPLES
(PICOCURIES PER LITER)

HNPP - 108

February 5, 1991

SR 1402 - MAPLE KNOLL DAIRY (MK-42)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
I-131	4.0	< 4.12E-01	(< 4.00E-01)

GAMMA SPECTROMETRY

VOLUME:

1 LITERS

ISOTOPE

SAMPLE ACTIVITY

CONTROL ACTIVITY

K-40	1.55 ± 0.06 E+03	(1.53 ± 0.06 E+03)
PB-212	LESS THAN LLD	(5.80 ± 3.24 E+00)

MILK SAMPLES
(PICOCURIES PER LITER)

HNPP - 109

February 5, 1991

SR 1134 - GOODWIN'S DAIRY (MK-43)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
I-131	4.0	< 5.92E-01	(< 4.00E-01)

GAMMA SPECTROMETRY

VOLUME:

1 LITERS

<u>ISOTOPE</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
K-40	$1.33 \pm 0.05 \text{ E}+03$	$(1.53 \pm 0.06 \text{ E}+03)$
PB-212	LESS THAN LLD	$(5.80 \pm 3.24 \text{ E}+00)$

MILK SAMPLES
(PICOCURIES PER LITER)

HNPP - 110

February 19, 1991

PITTSBORO - CONTROL (MK-5)

RADIOCHEMISTRY

ANALYSIS

LITERS

CONTROL ACTIVITY

I-131

4.0

(< 4.08E-01)

GAMMA SPECTROMETRY

VOLUME:

1 LITERS

ISOTOPE

CONTROL ACTIVITY

K-40

(1.44 ± 0.05 E+03)

MILK SAMPLES
(PICOCURIES PER LITER)

HNPP - 111

February 19, 1991

SR 1402 - MAPLE KNOLL DAIRY (MK-42)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
I-131	4.0	< 6.09E-01	(< 4.08E-01)

GAMMA SPECTROMETRY

VOLUME: 1 LITERS

<u>ISOTOPE</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
K-40	1.52 $\pm$ 0.05 E+03	(1.44 $\pm$ 0.05 E+03)

MILK SAMPLES
(PICOCURIES PER LITER)

HNPP - 112

February 19, 1991

SR 1134 - GOODWIN'S DAIRY (MK-43)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
I-131	4.0	< 6.38E-01	(< 4.08E-01)

GAMMA SPECTROMETRY

VOLUME: 1 LITERS

<u>ISOTOPE</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
K-40	1.44 $\pm$ 0.05 E+03	(1.44 $\pm$ 0.05 E+03)
PB-212	8.47 $\pm$ 3.62 E+00	(LESS THAN LLD)
RA-226	8.04 $\pm$ 5.21 E+01	(LESS THAN LLD)

MILK SAMPLES
(PICOCURIES PER LITER)

HNPP - 113

March 5, 1991

PITTSBORO - CONTROL (MK-5)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>CONTROL ACTIVITY</u>
I-131	4.0	(< 5.75E-01)

GAMMA SPECTROMETRY

VOLUME:

1 LITERS

ISOTOPE

CONTROL ACTIVITY

K-40

(1.42 $\pm$ 0.06 E+03)

MILK SAMPLES
(PICOCURIES PER LITER)

HNPP - 114

March 5, 1991

SR 1402 - MAPLE KNOLL DAIRY (MK-42)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
I-131	4.0	< 6.03E-01	(< 5.75E-01)

GAMMA SPECTROMETRY

VOLUME:

1 LITERS

<u>ISOTOPE</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
K-40	1.48 $\pm$ 0.05 E+03	(1.42 $\pm$ 0.06 E+03)
PB-214	1.09 $\pm$ 0.62 E+01	(LESS THAN LLD)

MILK SAMPLES
(PICOCURIES PER LITER)

HNPP - 115

March 5, 1991

SR 1134 - GOODWIN'S DAIRY (MK-43)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
I-131	4.0	< 4.13E-01	(< 5.75E-01)

GAMMA SPECTROMETRY

VOLUME: 1 LITERS

<u>ISOTOPE</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
K-40	1.30 ± 0.06 E+03	(1.42 ± 0.06 E+03)
TL-208	2.68 ± 2.38 E+00	(LESS THAN LLD)

MILK SAMPLES
(PICOCURIES PER LITER)

HNPP - 116

March 19, 1991

PITTSBORO - CONTROL (MK-5)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>CONTROL ACTIVITY</u>
I-131	4.0	(< 4.07E-01)

GAMMA SPECTROMETRY

VOLUME: 1 LITERS

ISOTOPE

<u>ISOTOPE</u>	<u>CONTROL ACTIVITY</u>
K-40	(1.46 ± 0.06 E+03)
PB-212	(7.77 ± 3.99 E+00)

MILK SAMPLES
(PICOCURIES PER LITER)

HNPP - 117

March 19, 1991

SR 1402 - MAPLE KNOLL DAIRY (MK-42)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
I-131	4.0	< 3.97E-01	(< 4.07E-01)

GAMMA SPECTROMETRY

VOLUME: 1 LITERS

<u>ISOTOPE</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
K-40	1.36 $\pm$ 0.06 E+03	(1.46 $\pm$ 0.06 E+03)
PB-212	LESS THAN LLD	(7.77 $\pm$ 3.99 E+00)

MILK SAMPLES
(PICOCURIES PER LITER)

HNPP - 118

March 19, 1991

SR 1134 - GOODWIN'S DAIRY (MK-43)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
I-131	4.0	< 4.33E-01	(< 4.07E-01)

GAMMA SPECTROMETRY

VOLUME: 1 LITERS

<u>ISOTOPE</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
K-40	1.31 ± 0.05 E+03	(1.46 ± 0.06 E+03)
PB-212	LESS THAN LLD	(7.77 ± 3.99 E+00)

MILK SAMPLES
(PICOCURIES PER LITER)

HNPP - 119

April 2, 1991

PITTSBORO - CONTROL (MK-5)

RADIOCHEMISTRY

ANALYSIS

LITERS

CONTROL ACTIVITY

I-131

4.0

(< 4.03E-01)

GAMMA SPECTROMETRY

VOLUME:

1 LITERS

ISOTOPE

CONTROL ACTIVITY

K-40

(1.42 $\pm$ 0.05 E+03)

MILK SAMPLES
(PICOCURIES PER LITER)

HNPP - 120

April 2, 1991

SR 1402 - MAPLE KNOLL DAIRY (MK-42)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
I-131	4.0	< 4.27E-01	(< 4.03E-01)

GAMMA SPECTROMETRY

VOLUME: 1 LITERS

<u>ISOTOPE</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
K-40	1.51 $\pm$ 0.06 E+03	(1.42 $\pm$ 0.05 E+03)
PB-212	5.82 $\pm$ 3.28 E+00	(LESS THAN LLD)

MILK SAMPLES
(PICOCURIES PER LITER)

HNPP - 121

April 2, 1991

SR 1134 - GOODWIN'S DAIRY (MK-43)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
I-131	4.0	< 4.41E-01	(< 4.03E-01)

GAMMA SPECTROMETRY

VOLUME: 1 LITERS

<u>ISOTOPE</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
K-40	1.27 $\pm$ 0.04 E+03	(1.42 $\pm$ 0.05 E+03)
RA-226	7.71 $\pm$ 5.11 E+01	(LESS THAN LLD)

MILK SAMPLES
(PICOCURIES PER LITER)

HNPP - 122

April 16, 1991

PITTSBORO - CONTROL (MK-5)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>CONTROL ACTIVITY</u>
I-131	4.0	(< 4.12E-01)

GAMMA SPECTROMETRY

VOLUME:

1 LITERS

ISOTOPE

CONTROL ACTIVITY

K-40

(1.48 ± 0.06 E+03)

MILK SAMPLES
(PICOCURIES PER LITER)

HNPP - 123

April 16, 1991

SR 1402 - MAPLE KNOLL DAIRY (MK-42)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
I-131	4.0	< 4.27E-01	(< 4.12E-01)

GAMMA SPECTROMETRY

VOLUME: 1 LITERS

<u>ISOTOPE</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
K-40	1.61 ± 0.06 E+03	(1.48 ± 0.06 E+03)
PB-212	7.61 ± 3.98 E+00	(LESS THAN LLD)

MILK SAMPLES
(PICOCURIES PER LITER)

HNPP - 124

April 16, 1991

SR 1134 - GOODWIN'S DAIRY (MK-43)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
I-131	4.0	< 4.48E-01	(< 4.12E-01)

GAMMA SPECTROMETRY

VOLUME: 1 LITERS

<u>ISOTOPE</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
K-40	1.36 $\pm$ 0.05 E+03	(1.48 $\pm$ 0.06 E+03)
PB-212	1.10 $\pm$ 0.44 E+01	(LESS THAN LLD)

MILK SAMPLES
(PICOCURIES PER LITER)

HNPP - 125

May 14, 1991

PITTSBORO - CONTROL (MK-5)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>CONTROL ACTIVITY</u>
I-131	4.0	(< 4.12E-01)

GAMMA SPECTROMETRY

VOLUME:

1 LITERS

ISOTOPE

CONTROL ACTIVITY

K-40

(1.38 ± 0.05 E+03)

MILK SAMPLES
(PICOCURIES PER LITER)

HNPP - 126

May 14, 1991

SR 1402 - MAPLE KNOLL DAIRY (MK-42)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
I-131	4.0	< 4.35E-01	(< 4.12E-01)

GAMMA SPECTROMETRY

VOLUME: 1 LITERS

<u>ISOTOPE</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
K-40	1.43 $\pm$ 0.05 E+03	(1.38 $\pm$ 0.05 E+03)
PB-212	1.39 $\pm$ 0.50 E+01	(LESS THAN LLD)

MILK SAMPLES
(PICOCURIES PER LITER)

HNPP - 127

May 14, 1991

SR 1134 - GOODWIN'S DAIRY (MK-43)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
I-131	4.0	< 4.46E-01	(< 4.12E-01)

GAMMA SPECTROMETRY

VOLUME: 1 LITERS

<u>ISOTOPE</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
K-40	1.18 ± 0.04 E+03	(1.38 ± 0.05 E+03)

MILK SAMPLES
(PICOCURIES PER LITER)

HNPP - 128

May 29, 1991

PITTSBORO - CONTROL (MK-5)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>CONTROL ACTIVITY</u>
I-131	4.0	(< 4.13E-01)

GAMMA SPECTROMETRY

VOLUME:

1. LITERS

ISOTOPE

CONTROL ACTIVITY

K-40

(1.35 ± 0.05 E+03)

MILK SAMPLES
(PICOCURIES PER LITER)

HNPP - 129

May 29, 1991

SR 1402 - MAPLE KNOLL DAIRY (MK-42)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
I-131	4.0	< 4.95E-01	(< 4.13E-01)

GAMMA SPECTROMETRY

VOLUME: 1 LITERS

<u>ISOTOPE</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
K-40	1.49 $\pm$ 0.05 E+03	(1.35 $\pm$ 0.05 E+03)
PB-212	4.68 $\pm$ 3.21 E+00	(LESS THAN LLD)

MILK SAMPLES
(PICOCURIES PER LITER)

HNPP - 130

May 29, 1991

SR 1134 - GOODWIN'S DAIRY (MK-43)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
I-131	4.0	< 4.77E-01	(< 4.13E-01)

GAMMA SPECTROMETRY

VOLUME: 1 LITERS

<u>ISOTOPE</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
K-40	1.14 ± 0.04 E+03	(1.35 ± 0.05 E+03)

MILK SAMPLES
(PICOCURIES PER LITER)

HNPP - 131

June 11, 1991

PITTSBORO - CONTROL (MK-5)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>CONTROL ACTIVITY</u>
I-131	4.0	(< 3.80E-01)

GAMMA SPECTROMETRY

VOLUME:

1 LITERS

ISOTOPE

CONTROL ACTIVITY

K-40

(1.28 $\pm$ 0.05 E+03)

MILK SAMPLES
(PICOCURIES PER LITER)

HNPP - 132

June 11, 1991

SR 1402 - MAPLE KNOLL DAIRY (MK-42)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
I-131	4.0	< 3.89E-01	(< 3.80E-01)

GAMMA SPECTROMETRY

VOLUME: 1 LITERS

<u>ISOTOPE</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
K-40	1.57 $\pm$ 0.05 E+03	(1.28 $\pm$ 0.05 E+03)
PB-212	6.91 $\pm$ 3.83 E+00	(LESS THAN LLD)

MILK SAMPLES
(PICOCURIES PER LITER)

HNPP - 133

June 11, 1991

SR 1134 - GOODWIN'S DAIRY (MK-43)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
I-131	4.0	< 4.13E-01	(< 3.80E-01)

GAMMA SPECTROMETRY

VOLUME: 1 LITERS

<u>ISOTOPE</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
K-40	1.11 ± 0.05 E+03	(1.28 ± 0.05 E+03)

MILK SAMPLES
(PICOCURIES PER LITER)

HNPP - 134

June 25, 1991

PITTSBORO - CONTROL (MK-5)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>CONTROL ACTIVITY</u>
I-131	4.0	(< 3.93E-01)

GAMMA SPECTROMETRY

VOLUME:

1 LITERS

ISOTOPE

CONTROL ACTIVITY

K-40

(1.26 $\pm$ 0.06 E+03)

MILK SAMPLES
(PICOCURIES PER LITER)

HNPP - 135

June 25, 1991

SR 1402 - MAPLE KNOLL DAIRY (MK-42)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
I-131	4.0	< 3.84E-01	(< 3.93E-01)

GAMMA SPECTROMETRY

VOLUME: 1 LITERS

<u>ISOTOPE</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
K-40	1.52 ± 0.05 E+03	(1.26 ± 0.06 E+03)
PB-212	4.02 ± 3.18 E+00	(LESS THAN LLD)

MILK SAMPLES
(PICOCURIES PER LITER)

HNPP - 136

June 25, 1991

SR 1134 - GOODWIN'S DAIRY (MK-43)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
I-131	4.0	< 4.16E-01	(< 3.93E-01)

GAMMA SPECTROMETRY

VOLUME: 1 LITERS

<u>ISOTOPE</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
K-40	1.31 ± 0.04 E+03	(1.26 ± 0.06 E+03)

BOTTOM SEDIMENT SAMPLES
(PICOCURIES PER GRAM)

HNPP - 137

SECOND QUARTER, 1991

HARRIS LAKE COOLING TOWER MIXING ZONE (SD-52)
(DATE COLLECTED: 05/14/91)

GAMMA SPECTROMETRY

MASS: 348 GRAMS DRY

<u>ISOTOPE</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
K-40	1.29 $\pm$ 0.06 E+01	(NOT REQUIRED)
MN-54	2.36 $\pm$ 0.10 E+00	(NOT REQUIRED)
CO-57	2.00 $\pm$ 0.36 E-01	(NOT REQUIRED)
CO-58	9.70 $\pm$ 0.17 E+00	(NOT REQUIRED)
CO-60	2.62 $\pm$ 0.02 E+01	(NOT REQUIRED)
CS-137	2.29 $\pm$ 0.63 E-01	(NOT REQUIRED)
TL-208	5.47 $\pm$ 0.96 E-01	(NOT REQUIRED)
PB-212	8.64 $\pm$ 0.79 E-01	(NOT REQUIRED)
PB-214	7.29 $\pm$ 0.98 E-01	(NOT REQUIRED)
BI-214	6.21 $\pm$ 1.36 E-01	(NOT REQUIRED)

BOTTOM SEDIMENT SAMPLES
(PICOCURIES PER GRAM)

HNPP - 138

FIRST SEMI-ANNUAL, 1991

HARRIS LAKE COOLING TOWER MIXING ZONE (SD-52)
(DATE COLLECTED: 01/15/91)

GAMMA SPECTROMETRY

MASS: 570.9 GRAMS DRY

<u>ISOTOPE</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
K-40	1.12 $\pm$ 0.05 E+01	(NOT REQUIRED)
MN-54	2.07 $\pm$ 0.08 E+00	(NOT REQUIRED)
CO-57	1.31 $\pm$ 0.29 E-01	(NOT REQUIRED)
CO-58	3.10 $\pm$ 0.11 E+00	(NOT REQUIRED)
CO-60	1.52 $\pm$ 0.02 E+01	(NOT REQUIRED)
CS-137	3.21 $\pm$ 0.49 E-01	(NOT REQUIRED)
TL-208	2.47 $\pm$ 0.58 E-01	(NOT REQUIRED)
PB-212	7.88 $\pm$ 0.79 E-01	(NOT REQUIRED)
PB-214	4.63 $\pm$ 0.69 E-01	(NOT REQUIRED)
BI-214	4.46 $\pm$ 0.87 E-01	(NOT REQUIRED)

SHORELINE SEDIMENT SAMPLES
(PICOCURIES PER GRAM)

HNPP - 139

SECOND QUARTER, 1991

SPILLWAY ON MAIN RES (SS-26)
(DATE COLLECTED: 05/14/91)

GAMMA SPECTROMETRY

MASS: 748.7 GRAMS

<u>ISOTOPE</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
K-40	9.57 $\pm$ 0.31 E+00	(NOT REQUIRED)
CO-58	1.20 $\pm$ 0.15 E-01	(NOT REQUIRED)
TL-208	1.04 $\pm$ 0.13 E-01	(NOT REQUIRED)
PB-212	3.39 $\pm$ 0.17 E-01	(NOT REQUIRED)
PB-214	2.49 $\pm$ 0.21 E-01	(NOT REQUIRED)
BI-212	3.07 $\pm$ 0.77 E-01	(NOT REQUIRED)
BI-214	2.34 $\pm$ 0.27 E-01	(NOT REQUIRED)
RA-226	1.09 $\pm$ 0.20 E+00	(NOT REQUIRED)
AC-228	4.03 $\pm$ 0.53 E-01	(NOT REQUIRED)



SHORELINE SEDIMENT SAMPLES
(PICOCURIES PER GRAM)

HNPP - 140

SECOND QUARTER, 1991

SHORELINE OF COOLING TOWER MIXING ZONE (SS-41)
(DATE COLLECTED: 05/14/91)

GAMMA SPECTROMETRY

MASS: 852.6 GRAMS

<u>ISOTOPE</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
K-40	1.05 $\pm$ 0.03 E+01	(NOT REQUIRED)
CO-58	9.00 $\pm$ 1.42 E-02	(NOT REQUIRED)
TL-208	7.62 $\pm$ 1.14 E-02	(NOT REQUIRED)
PB-212	2.33 $\pm$ 0.14 E-01	(NOT REQUIRED)
PB-214	2.06 $\pm$ 0.21 E-01	(NOT REQUIRED)
BI-212	1.82 $\pm$ 0.75 E-01	(NOT REQUIRED)
BI-214	1.97 $\pm$ 0.23 E-01	(NOT REQUIRED)
RA-226	2.47 $\pm$ 1.99 E-01	(NOT REQUIRED)
AC-228	2.17 $\pm$ 0.45 E-01	(NOT REQUIRED)

SHORELINE SEDIMENT SAMPLES
(PICOCURIES PER GRAM)

HNPP - 141

FIRST SEMI-ANNUAL, 1991

SPILLWAY ON MAIN RES (SS-26)
(DATE COLLECTED: 01/15/91)

GAMMA SPECTROMETRY

MASS: 1049.1 GRAMS

<u>ISOTOPE</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
BE-7	3.16 $\pm$ 0.57 E-01	(NOT REQUIRED)
K-40	5.97 $\pm$ 0.25 E+00	(NOT REQUIRED)
TL-208	6.19 $\pm$ 0.98 E-02	(NOT REQUIRED)
PB-212	1.64 $\pm$ 0.13 E-01	(NOT REQUIRED)
PB-214	1.56 $\pm$ 0.19 E-01	(NOT REQUIRED)
BI-214	1.38 $\pm$ 0.17 E-01	(NOT REQUIRED)
RA-226	6.19 $\pm$ 1.54 E-01	(NOT REQUIRED)
AC-228	2.05 $\pm$ 0.40 E-01	(NOT REQUIRED)

SHORELINE SEDIMENT SAMPLES
(PICOCURIES PER GRAM)

HNPP - 142

FIRST SEMI-ANNUAL, 1991

SHORELINE OF COOLING TOWER MIXING ZONE (SS-41)
(DATE COLLECTED: 01/15/91)

GAMMA SPECTROMETRY

MASS: 1056.1 GRAMS

<u>ISOTOPE</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
BE-7	1.56 $\pm$ 0.78 E-01	(NOT REQUIRED)
K-40	1.31 $\pm$ 0.05 E+01	(NOT REQUIRED)
TL-208	1.22 $\pm$ 0.18 E-01	(NOT REQUIRED)
PB-212	2.96 $\pm$ 0.23 E-01	(NOT REQUIRED)
PB-214	2.87 $\pm$ 0.33 E-01	(NOT REQUIRED)
BI-214	2.69 $\pm$ 0.32 E-01	(NOT REQUIRED)
RA-226	1.03 $\pm$ 0.27 E+00	(NOT REQUIRED)
AC-228	3.65 $\pm$ 0.71 E-01	(NOT REQUIRED)

SURFACE WATER SAMPLES - IODINE
(PICOCURIES PER LITER)

HNPP - 143

FIRST QUARTER, 1991

CAPE FEAR PLANT INTAKE - CONTROL (SW-38)

<u>DATE COLLECTED</u>	<u>LITERS</u>	<u>CONTROL ACTIVITY</u>
01/07/91	4.0	(< 4.09E-01)
01/14/91	4.0	(< 6.30E-01)
01/21/91	4.0	(< 4.04E-01)
01/28/91	4.0	(< 6.19E-01)
02/04/91	4.0	(< 4.12E-01)
02/11/91	4.0	(< 5.97E-01)
02/18/91	4.0	(< 4.03E-01)
02/25/91	4.0	(< 5.87E-01)
03/04/91	4.0	(< 5.95E-01)
03/11/91	4.0	(< 4.74E-01)
03/18/91	4.0	(< 4.08E-01)
03/25/91	4.0	(< 3.99E-01)

SURFACE WATER SAMPLES - IODINE
(PICOCURIES PER LITER)

HNPP - 144

FIRST QUARTER, 1991

LILLINGTON - CAPE FEAR RIVER (SW-40)

<u>DATE COLLECTED</u>	<u>LITERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
01/07/91	4.0	< 6.02E-01	(< 4.09E-01)
01/14/91	4.0	< 5.99E-01	(< 6.30E-01)
01/21/91	4.0	< 5.98E-01	(< 4.04E-01)
01/28/91	4.0	< 4.18E-01	(< 6.19E-01)
02/04/91	4.0	< 6.12E-01	(< 4.12E-01)
02/11/91	4.0	< 4.03E-01	(< 5.97E-01)
02/18/91	4.0	< 5.73E-01	(< 4.03E-01)
02/25/91	4.0	< 4.17E-01	(< 5.87E-01)
03/04/91	4.0	< 4.06E-01	(< 5.95E-01)
03/11/91	4.0	< 4.79E-01	(< 4.74E-01)
03/18/91	4.0	< 4.13E-01	(< 4.08E-01)
03/25/91	4.0	< 4.30E-01	(< 3.99E-01)

SURFACE WATER SAMPLES - IODINE
(PICOCURIES PER LITER)

HNPP - 145

SECOND QUARTER, 1991

CAPE FEAR PLANT INTAKE - CONTROL (SW-38)

<u>DATE</u> <u>COLLECTED</u>	<u>LITERS</u>	<u>CONTROL ACTIVITY</u>
04/01/91	4.0	(< 4.01E-01)
04/08/91	4.0	(< 4.09E-01)
04/15/91	4.0	(< 4.06E-01)
04/22/91	4.0	(< 4.04E-01)
04/29/91	4.0	(< 4.01E-01)
05/06/91	4.0	(< 4.38E-01)
05/13/91	4.0	(< 4.12E-01)
05/20/91	4.0	(< 4.03E-01)
05/28/91	4.0	(< 4.09E-01)
06/03/91	4.0	(< 4.07E-01)
06/10/91	4.0	(< 3.90E-01)
06/17/91	4.0	(< 3.65E-01)
06/24/91	4.0	(< 3.86E-01)

SURFACE WATER SAMPLES - IODINE
(PICOCURIES PER LITER)

HNPP - 146

SECOND QUARTER, 1991

LILLINGTON - CAPE FEAR RIVER (SW-40)

<u>DATE COLLECTED</u>	<u>LITERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
04/01/91	4.0	< 4.30E-01	(< 4.01E-01)
04/08/91	4.0	< 4.36E-01	(< 4.09E-01)
04/15/91	4.0	< 4.34E-01	(< 4.06E-01)
04/22/91	4.0	< 4.12E-01	(< 4.04E-01)
04/29/91	4.0	< 4.09E-01	(< 4.01E-01)
05/06/91	4.0	< 4.50E-01	(< 4.38E-01)
05/13/91	4.0	< 4.42E-01	(< 4.12E-01)
05/20/91	4.0	< 4.49E-01	(< 4.03E-01)
05/28/91	4.0	< 4.43E-01	(< 4.09E-01)
06/03/91	4.0	< 4.69E-01	(< 4.07E-01)
06/10/91	4.0	< 4.00E-01	(< 3.90E-01)
06/17/91	4.0	< 4.17E-01	(< 3.65E-01)
06/24/91	4.0	< 3.95E-01	(< 3.86E-01)

SURFACE WATER SAMPLES
(PICOCURIES PER LITER)

HNPP - 147

JANUARY, 1991

SPILLWAY ON MAIN RES (SW-26)
(COMPOSITE SAMPLE)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
GROSS BETA	1.000	5.07 $\pm$ 0.85 E+00	(3.52 $\pm$ 0.77 E+00)
TRITIUM	0.005	1.09 $\pm$ 0.08 E+04	(< 9.01E+02)

GAMMA SPECTROMETRY

VOLUME: 1 LITERS

<u>ISOTOPE</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
K-40	5.95 $\pm$ 2.89 E+01	(5.60 $\pm$ 3.52 E+01)
TL-208	LESS THAN LLD	(1.44 $\pm$ 1.31 E+00)

SURFACE WATER SAMPLES
(PICOCURIES PER LITER)

HNPP - 148

JANUARY, 1991

CAPE FEAR PLANT INTAKE - CONTROL (SW-38)
(COMPOSITE SAMPLE)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>CONTROL ACTIVITY</u>
GROSS BETA	1.000	(3.52 $\pm$ 0.77 E+00)
TRITIUM	0.005	(< 9.01E+02)

GAMMA SPECTROMETRY

VOLUME: 1 LITERS

<u>ISOTOPE</u>	<u>CONTROL ACTIVITY</u>
K-40	(5.60 $\pm$ 3.52 E+01)
TL-208	(1.44 $\pm$ 1.31 E+00)

SURFACE WATER SAMPLES
(PICOCURIES PER LITER)

HNPP - 149

JANUARY, 1991

LILLINGTON - CAPE FEAR RIVER (SW-40)
(COMPOSITE SAMPLE)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
GROSS BETA	1.000	$3.91 \pm 0.80 \text{ E}+00$	$(3.52 \pm 0.77 \text{ E}+00)$
TRITIUM	0.005	$< 9.01\text{E}+02$	$(< 9.01\text{E}+02)$

GAMMA SPECTROMETRY

VOLUME: 1 LITERS

<u>ISOTOPE</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
K-40	$6.02 \pm 2.93 \text{ E}+01$	$(5.60 \pm 3.52 \text{ E}+01)$
TL-208	LESS THAN LLD	$(1.44 \pm 1.31 \text{ E}+00)$
PB-212	$3.17 \pm 1.47 \text{ E}+00$	(LESS THAN LLD)

SURFACE WATER SAMPLES
(PICOCURIES PER LITER)

HNPP - 150

FEBRUARY, 1991

SPILLWAY ON MAIN RES (SW-26)
(COMPOSITE SAMPLE)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
GROSS BETA	1.000	$3.77 \pm 0.78 \text{ E}+00$	$(3.25 \pm 0.77 \text{ E}+00)$
TRITIUM	0.005	$1.06 \pm 0.08 \text{ E}+04$	$(< 9.10\text{E}+02)$

GAMMA SPECTROMETRY

VOLUME:

1 LITERS

<u>ISOTOPE</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
K-40	LESS THAN LLD	$(2.13 \pm 0.30 \text{ E}+02)$
PB-212	$4.21 \pm 3.19 \text{ E}+00$	$(2.18 \pm 1.76 \text{ E}+00)$

SURFACE WATER SAMPLES
(PICOCURIES PER LITER)

HNPP - 151

FEBRUARY, 1991

CAPE FEAR PLANT INTAKE - CONTROL (SW-38)
(COMPOSITE SAMPLE)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>CONTROL ACTIVITY</u>
GROSS BETA	1.000	(3.25 $\pm$ 0.77 E+00)
TRITIUM	0.005	(< 9.10E+02)

GAMMA SPECTROMETRY

VOLUME:

1 LITERS

ISOTOPE

<u>ISOTOPE</u>	<u>CONTROL ACTIVITY</u>
K-40	(2.13 $\pm$ 0.30 E+02)
PB-212	(2.18 $\pm$ 1.76 E+00)

SURFACE WATER SAMPLES
(PICOCURIES PER LITER)

HNPP - 152

FEBRUARY, 1991

LILLINGTON - CAPE FEAR RIVER (SW-40)
(COMPOSITE SAMPLE)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
GROSS BETA	1.000	$2.94 \pm 0.74 \text{ E}+00$	$(3.25 \pm 0.77 \text{ E}+00)$
TRITIUM	0.005	$< 9.10\text{E}+02$	$(< 9.10\text{E}+02)$

GAMMA SPECTROMETRY

VOLUME:

1 LITERS

<u>ISOTOPE</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
K-40	$8.20 \pm 3.06 \text{ E}+01$	$(2.13 \pm 0.30 \text{ E}+02)$
PB-212	$5.56 \pm 2.27 \text{ E}+00$	$(2.18 \pm 1.76 \text{ E}+00)$

SURFACE WATER SAMPLES
(PICOCURIES PER LITER)

HNPP - 153

MARCH, 1991

SPILLWAY ON MAIN RES (SW-26)
(COMPOSITE SAMPLE)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
GROSS BETA	1.000	$3.66 \pm 0.77 \text{ E}+00$	$(3.06 \pm 0.75 \text{ E}+00)$
TRITIUM	0.005	$1.02 \pm 0.07 \text{ E}+04$	$(< 9.12\text{E}+02)$

GAMMA SPECTROMETRY

VOLUME: 1 LITERS

ISOTOPE

SAMPLE ACTIVITY CONTROL ACTIVITY

ALL GAMMA EMITTERS LESS THAN LLD

SURFACE WATER SAMPLES
(PICOCURIES PER LITER)

HNPP - 154

MARCH, 1991

CAPE FEAR PLANT INTAKE - CONTROL (SW-38)
(COMPOSITE SAMPLE)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>CONTROL ACTIVITY</u>
GROSS BETA	1.000	(3.06 $\pm$ 0.75 E+00)
TRITIUM	0.005	(< 9.12E+02)

GAMMA SPECTROMETRY

VOLUME: 1 LITERS

ISOTOPE

CONTROL ACTIVITY

ALL GAMMA EMITTERS LESS THAN LLD

SURFACE WATER SAMPLES
(PICOCURIES PER LITER)

HNPP - 155

MARCH, 1991

LILLINGTON - CAPE FEAR RIVER (SW-40)
(COMPOSITE SAMPLE)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
GROSS BETA	1.000	$3.29 \pm 0.76 \text{ E}+00$	$(3.06 \pm 0.75 \text{ E}+00)$
TRITIUM	0.005	$< 9.12\text{E}+02$	$(< 9.12\text{E}+02)$

GAMMA SPECTROMETRY

VOLUME:

1 LITERS

<u>ISOTOPE</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
K-40	$5.84 \pm 3.02 \text{ E}+01$	(LESS THAN LLD)
PB-212	$6.47 \pm 3.09 \text{ E}+00$	(LESS THAN LLD)
RA-226	$4.28 \pm 3.00 \text{ E}+01$	(LESS THAN LLD)

SURFACE WATER SAMPLES
(PICOCURIES PER LITER)

HNPP - 156

APRIL, 1991

SPILLWAY ON MAIN RES (SW-26)
(COMPOSITE SAMPLE)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
GROSS BETA	1.000	$3.47 \pm 0.76 \text{ E}+00$	$(2.59 \pm 0.72 \text{ E}+00)$
TRITIUM	0.005	$7.94 \pm 0.71 \text{ E}+03$	$(< 9.22 \text{ E}+02)$

GAMMA SPECTROMETRY

VOLUME:

1 LITERS

<u>ISOTOPE</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
K-40	$7.76 \pm 2.77 \text{ E}+01$	$(6.72 \pm 3.36 \text{ E}+01)$
PB-212	LESS THAN LLD	$(3.29 \pm 1.94 \text{ E}+00)$
RA-226	LESS THAN LLD	$(3.01 \pm 2.85 \text{ E}+01)$

SURFACE WATER SAMPLES
(PICOCURIES PER LITER)

HNPP - 157

APRIL, 1991

CAPE FEAR PLANT INTAKE - CONTROL (SW-38)
(COMPOSITE SAMPLE)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>CONTROL ACTIVITY</u>
GROSS BETA	1.000	(2.59 ± 0.72 E+00)
TRITIUM	0.005	(< 9.22E+02)

GAMMA SPECTROMETRY

VOLUME:

1 LITERS

ISOTOPE

CONTROL ACTIVITY

K-40	(6.72 ± 3.36 E+01)
PB-212	(3.29 ± 1.94 E+00)
RA-226	(3.01 ± 2.85 E+01)

SURFACE WATER SAMPLES
(PICOCURIES PER LITER)

HNPP - 158

APRIL, 1991

LILLINGTON - CAPE FEAR RIVER (SW-40)
(COMPOSITE SAMPLE)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
GROSS BETA	1.000	$3.47 \pm 0.79 \text{ E}+00$	$(2.59 \pm 0.72 \text{ E}+00)$
TRITIUM	0.005	$< 9.22\text{E}+02$	$(< 9.22\text{E}+02)$

GAMMA SPECTROMETRY

VOLUME:

1 LITERS

<u>ISOTOPE</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
K-40	LESS THAN LLD	$(6.72 \pm 3.36 \text{ E}+01)$
PB-212	LESS THAN LLD	$(3.29 \pm 1.94 \text{ E}+00)$
RA-226	LESS THAN LLD	$(3.01 \pm 2.85 \text{ E}+01)$

SURFACE WATER SAMPLES
(PICOCURIES PER LITER)

HNPP - 159

MAY, 1991

SPILLWAY ON MAIN RES (SW-26)
(COMPOSITE SAMPLE)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
GROSS BETA	1.000	$2.81 \pm 0.72 \text{ E}+00$	$(3.08 \pm 0.77 \text{ E}+00)$
TRITIUM	0.005	$6.64 \pm 0.70 \text{ E}+03$	$(< 9.33\text{E}+02)$

GAMMA SPECTROMETRY

VOLUME:

1 LITERS

<u>ISOTOPE</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
TL-208	$9.57 \pm 0.24 \text{ E}-01$	(LESS THAN LLD)
PB-212	LESS THAN LLD	$(3.16 \pm 2.24 \text{ E}+00)$



SURFACE WATER SAMPLES
(PICOCURIES PER LITER)

HNPP - 160

MAY, 1991

CAPE FEAR PLANT INTAKE - CONTROL (SW-38)
(COMPOSITE SAMPLE)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>CONTROL ACTIVITY</u>
GROSS BETA	1.000	(3.08 $\pm$ 0.77 E+00)
TRITIUM	0.005	(< 9.33E+02)

GAMMA SPECTROMETRY

VOLUME:

1 LITERS

ISOTOPE

PB-212

CONTROL ACTIVITY

(3.16 $\pm$ 2.24 E+00)

SURFACE WATER SAMPLES
(PICOCURIES PER LITER)

HNPP - 161

MAY, 1991

LILLINGTON - CAPE FEAR RIVER (SW-40)
(COMPOSITE SAMPLE)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
GROSS BETA	1.000	$2.95 \pm 0.76 \text{ E}+00$	$(3.08 \pm 0.77 \text{ E}+00)$
TRITIUM	0.005	$< 9.33\text{E}+02$	$(< 9.33\text{E}+02)$

GAMMA SPECTROMETRY

VOLUME: 1 LITERS

<u>ISOTOPE</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
K-40	$4.33 \pm 2.22 \text{ E}+01$	(LESS THAN LLD)
PB-212	LESS THAN LLD	$(3.16 \pm 2.24 \text{ E}+00)$

SURFACE WATER SAMPLES
(PICOCURIES PER LITER)

HNPP - 162

JUNE, 1991

SPILLWAY ON MAIN RES (SW-26)
(COMPOSITE SAMPLE)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
GROSS BETA	1.000	3.32 $\pm$ 0.85 E+00	(6.03 $\pm$ 1.14 E+00)
TRITIUM	0.005	5.97 $\pm$ 0.69 E+03	(< 9.47E+02)

GAMMA SPECTROMETRY

VOLUME: 1 LITERS

<u>ISOTOPE</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
K-40	LESS THAN LLD	(9.09 $\pm$ 2.91 E+01)
PB-212	LESS THAN LLD	(4.23 $\pm$ 2.07 E+00)

SURFACE WATER SAMPLES
(PICOCURIES PER LITER)

HNPP - 163.

JUNE, 1991

CAPE FEAR PLANT INTAKE - CONTROL (SW-38)
(COMPOSITE SAMPLE)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>CONTROL ACTIVITY</u>
GROSS BETA	1.000	(6.03 $\pm$ 1.14 E+00)
TRITIUM	0.005	(< 9.47E+02)

GAMMA SPECTROMETRY

VOLUME:

1 LITERS

ISOTOPE

CONTROL ACTIVITY

K-40	(9.09 $\pm$ 2.91 E+01)
PB-212	(4.23 $\pm$ 2.07 E+00)

101 - 100

101 - 100

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101 - 100

SURFACE WATER SAMPLES
(PICOCURIES PER LITER)

HNPP - 164

JUNE, 1991

LILLINGTON - CAPE FEAR RIVER (SW-40)
(COMPOSITE SAMPLE)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
GROSS BETA	1.000	$5.49 \pm 1.10 \text{ E}+00$	$(6.03 \pm 1.14 \text{ E}+00)$
TRITIUM	0.005	$< 9.47\text{E}+02$	$(< 9.47\text{E}+02)$

GAMMA SPECTROMETRY

VOLUME:

1 LITERS

<u>ISOTOPE</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
K-40	$2.72 \pm 2.13 \text{ E}+01$	$(9.09 \pm 2.91 \text{ E}+01)$
PB-212	LESS THAN LLD	$(4.23 \pm 2.07 \text{ E}+00)$
RA-226	$4.66 \pm 3.08 \text{ E}+01$	(LESS THAN LLD)

SURFACE WATER SAMPLES
(PICOCURIES PER LITER)

HNPP - 165

FIRST QUARTER, 1991

SPILLWAY ON MAIN RES (SW-26S)
(COMPOSITE SAMPLE)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
TRITIUM	0.005	1.16 ± 0.08 E+04	(NOT REQUIRED)

100-11111

100-11111

100-11111

100-11111

SURFACE WATER SAMPLES
(PICOCURIES PER LITER)

HNPP - 166

FIRST QUARTER, 1991

SHORELINE OF COOLING TOWER MIXING ZONE (SW-41S)
(COMPOSITE SAMPLE)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
TRITIUM	0.005	9.95 $\pm$ 0.76 E+03	(NOT REQUIRED)

1955 - 1957

1955 - 1957

1955 - 1957

1955 - 1957

(1955 - 1957)

SURFACE WATER SAMPLES
(PICOCURIES PER LITER)

HNPP - 167

FIRST QUARTER, 1991

HARRIS LAKE COOLING TOWER MIXING ZONE (SW-52S)
(COMPOSITE SAMPLE)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
TRITIUM	0.005	1.13 $\pm$ 0.08 E+04	(NOT REQUIRED)

882 - 388

DATE: 2-11-11
BY: [illegible]

[illegible]

1-15-11

(1-15-11)

SURFACE WATER SAMPLES
(PICOCURIES PER LITER)

HNPP - 168

SECOND QUARTER, 1991

SPILLWAY ON MAIN RES (SW-26S)
(COMPOSITE SAMPLE)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
TRITIUM	0.005	6.97 $\pm$ 0.71 E+03	(NOT REQUIRED)

KNBP - 100

CLIMATE & WATER SERVICES
(DURING PERIOD)

1977-1978

THE SAMPLES
WATER SAMPLING FOR 1977-1978

WATER ACTIVITY

WATER ACTIVITY

(NOT REQUIRED)

1977-1978

SURFACE WATER SAMPLES
(PICOCURIES PER LITER)

HNPP - 169

SECOND QUARTER, 1991

SHORELINE OF COOLING TOWER MIXING ZONE (SW-41S)
(COMPOSITE SAMPLE)

RADIOCHEMISTRY

<u>ANALYSIS</u>	<u>LITERS</u>	<u>SAMPLE ACTIVITY</u>	<u>CONTROL ACTIVITY</u>
TRITIUM	0.005	$6.33 \pm 0.70 \text{ E}+03$	(NOT REQUIRED)

HMBS - 1170

LOCURIES BIE FILTER
SURFACE WATER SWAPLES

3 QUARTER, 1962

PROSITE SAMPLE
G. LOWES MIXING ZONE (2M-353)

CONTROL ACTIVITY

WATER SAMPLE

(NOT REQUIRED)

1.7 - 0 1 E-03

ENVIRONMENTAL TLD
(MILLIROENTGEN PER WEEK)

HNPP - 171

FIRST QUARTER, 1991

<u>STATION</u>	<u>MILLIROENTGEN PER WEEK</u>
CONTROL	(9.00 $\pm$ 2.00 E-01)
1 SR 1134 AT INT SR 1011 - DIXIE PIPELINE	1.10 $\pm$ 0.20 E+00
2 SR 1134, 1.4 MI S OF SR 1011 - BARRICADE	1.20 $\pm$ 0.10 E+00
3 HARRIS E&E CENTER - 2.2 MI NE	9.00 $\pm$ 1.00 E-01
4 NEW HILL NEAR 1ST BAPTIST CH, 3.3 MI NNE	1.00 $\pm$ 0.10 E+00
5 PITTSBORO - CONTROL	9.00 $\pm$ 2.00 E-01
6 INT OF SR 1134 AND 1135	1.00 $\pm$ 0.10 E+00
7 HOUSE RUINS ON SR 1134	9.00 $\pm$ 1.00 E-01
8 DEAD END OF SR 1134	1.20 $\pm$ 0.10 E+00
9 1 MI SW OF HOLLEMANS XRDS ON SR 1130	8.00 $\pm$ 1.00 E-01
10 2.0 MI SW OF HOLLEMANS XRDS ON SR 1130	9.00 $\pm$ 1.00 E-01
11 EARTHEN DAM AT HARRIS PLANT	9.00 $\pm$ 2.00 E-01
12 1 MI S ON DIRT RD FROM TLD 13	8.00 $\pm$ 1.00 E-01
13 DIRT RD INT BETWEEN PLANT AND AUX RES	9.00 $\pm$ 1.00 E-01
14 DEAD END OF SR 1911	9.00 $\pm$ 1.00 E-01
15 CEMETERY ON SR 1911	8.00 $\pm$ 1.00 E-01
16 US 1 AT CHATHAM-WAKE CO LINE	1.10 $\pm$ 0.10 E+00
17 INT OF US 1 AND AUX RES	1.30 $\pm$ 0.20 E+00
18 0.6 MI N ON US 1 FROM TLD 17	1.20 $\pm$ 0.20 E+00
19 SR 1142 - OLIVE'S DAIRY	1.10 $\pm$ 0.10 E+00
20 INT OF SR 1149 AND US 1	1.40 $\pm$ 0.10 E+00
21 1.3 MI ON SR 1152 FROM INT SR 1153	8.00 $\pm$ 1.00 E-01

WILLIAM ROSENTHAL PER WEEK

22

(JO-E COS 4-11-61)

10-2 00. 2 00. 151 25 151

06-44 07 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 1041 1042 104

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10-15-68

ENVIRONMENTAL TLD
(MILLIROENTGEN PER WEEK)

HNPP - 172

FIRST QUARTER, 1991

<u>STATION</u>	<u>MILLIROENTGEN PER WEEK</u>
CONTROL	(9.00 $\pm$ 2.00 E-01)
22 2.0 MI E OF HOLLEMANS XRDS ON SR 1115	7.00 $\pm$ 1.00 E-01
23 INT SR 1116 AND SR 1127	1.00 $\pm$ 0.10 E+00
24 SWEET SPRINGS CHURCH ON SR 1116	1.00 $\pm$ 0.10 E+00
26 SPILLWAY ON MAIN RES	1.00 $\pm$ 0.10 E+00
27 BUCKHORN UNITED METHODIST CH ON NC 42	7.00 $\pm$ 1.00 E-01
28 0.6 MI FROM INT SR 1916 AND SR 1924	9.00 $\pm$ 1.00 E-01
29 CHEMBOND CORP ON SR 1916	1.20 $\pm$ 0.10 E+00
30 INT OF SR 1972 AND US 1	1.20 $\pm$ 0.10 E+00
31 INT OF SR 1910, SR 1909, AND SR 1908	1.00 $\pm$ 0.20 E+00
32 3 MI ON SR 1008 FROM INT SR 1011	1.10 $\pm$ 0.20 E+00
33 SR 1142 AT BARRICADE	1.10 $\pm$ 0.10 E+00
34 APEX AT JONES PARK	1.10 $\pm$ 0.10 E+00
35 HOLLY SPRINGS ON EARP STREET	1.00 $\pm$ 0.20 E+00
36 INT OF SR 1393 AND SR 1421	1.00 $\pm$ 0.10 E+00
37 FUQUAY VARINA AT OLD CP&L OFFICE	1.20 $\pm$ 0.10 E+00
48 SR 1142 AT UNDERGROUND CABLE SIGN	1.00 $\pm$ 0.10 E+00
49 SR 1127 AT WAKE CO TRASH COLLECTION AREA	1.10 $\pm$ 0.10 E+00
50 HOLLEMANS CROSSROADS	8.00 $\pm$ 1.00 E-01
53 INTERSECTION OF SR 1972 AND SR 1907	1.00 $\pm$ 0.20 E+00
56 2.8 MI WSW OF THE SITE	1.20 $\pm$ 0.10 E+00

ENVIRONMENTAL THE
WILDLIFE-HERM

THE CHARTER 1987

WILDLIFE-HERM WEEK

1.00 ± 1.00 E-01

2.00 ± 1.00 E-01

3.00 ± 1.00 E-01

4.00 ± 1.00 E-01

5.00 ± 1.00 E-01

6.00 ± 1.00 E-01

7.00 ± 1.00 E-01

8.00 ± 1.00 E-01

9.00 ± 1.00 E-01

10.00 ± 1.00 E-01

11.00 ± 1.00 E-01

12.00 ± 1.00 E-01

13.00 ± 1.00 E-01

14.00 ± 1.00 E-01

15.00 ± 1.00 E-01

16.00 ± 1.00 E-01

17.00 ± 1.00 E-01

18.00 ± 1.00 E-01

19.00 ± 1.00 E-01

20.00 ± 1.00 E-01

21.00 ± 1.00 E-01

22.00 ± 1.00 E-01

ENVIRONMENTAL TLD
(MILLIROENTGEN PER WEEK)

HNPP - 173

SECOND QUARTER, 1991

<u>STATION</u>	<u>MILLIROENTGEN PER WEEK</u>
CONTROL	(9.00 $\pm$ 1.00 E-01)
1 SR 1134 AT INT SR 1011 - DIXIE PIPELINE	1.00 $\pm$ 0.10 E+00
2 SR 1134, 1.4 MI S OF SR 1011 - BARRICADE	1.00 $\pm$ 0.10 E+00
3 HARRIS E&E CENTER - 2.2 MI NE	9.00 $\pm$ 1.00 E-01
4 NEW HILL NEAR 1ST BAPTIST CH, 3.3 MI NNE	9.00 $\pm$ 1.00 E-01
5 PITTSBORO - CONTROL	9.00 $\pm$ 1.00 E-01
6 INT OF SR 1134 AND 1135	8.00 $\pm$ 1.00 E-01
7 HOUSE RUINS ON SR 1134	8.00 $\pm$ 1.00 E-01
8 DEAD END OF SR 1134	9.00 $\pm$ 1.00 E-01
9 1 MI SW OF HOLLEMANS XRDS ON SR 1130	8.00 $\pm$ 1.00 E-01
10 2.0 MI SW OF HOLLEMANS XRDS ON SR 1130	9.00 $\pm$ 1.00 E-01
11 EARTHEN DAM AT HARRIS PLANT	8.00 $\pm$ 1.00 E-01
12 1 MI S ON DIRT RD FROM TLD 13	8.00 $\pm$ 1.00 E-01
13 DIRT RD INT BETWEEN PLANT AND AUX RES	8.00 $\pm$ 1.00 E-01
14 DEAD END OF SR 1911	8.00 $\pm$ 1.00 E-01
15 CEMETERY ON SR 1911	9.00 $\pm$ 1.00 E-01
16 US 1 AT CHATHAM-WAKE CO LINE	1.10 $\pm$ 0.10 E+00
17 INT OF US 1 AND AUX RES	1.00 $\pm$ 0.10 E+00
18 0.6 MI N ON US 1 FROM TLD 17	1.10 $\pm$ 0.10 E+00
19 SR 1142 - OLIVE'S DAIRY	1.10 $\pm$ 0.10 E+00
20 INT OF SR 1149 AND US 1	1.20 $\pm$ 0.10 E+00
21 1.3 MI ON SR 1152 FROM INT SR 1153	7.00 $\pm$ 1.00 E-01

ENVIRONMENTAL
PERMITTING
1962

WATER INTAKE PER WEEK

176

1.00 E-01

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ENVIRONMENTAL TLD
(MILLIROENTGEN PER WEEK)

HNPP - 174

SECOND QUARTER, 1991

<u>STATION</u>	<u>MILLIROENTGEN PER WEEK</u>
CONTROL	(9.00 $\pm$ 1.00 E-01)
22 2.0 MI E OF HOLLEMANS XRDS ON SR 1115	8.00 $\pm$ 1.00 E-01
23 INT SR 1116 AND SR 1127	9.00 $\pm$ 1.00 E-01
24 SWEET SPRINGS CHURCH ON SR 1116	9.00 $\pm$ 1.00 E-01
25 0.2 MI W OF INT OF SR 1401 AND SR 1402	9.00 $\pm$ 1.00 E-01
26 SPILLWAY ON MAIN RES	9.00 $\pm$ 1.00 E-01
27 BUCKHORN UNITED METHODIST CH ON NC 42	7.00 $\pm$ 1.00 E-01
28 0.6 MI FROM INT SR 1916 AND SR 1924	8.00 $\pm$ 1.00 E-01
29 CHEMBOND CORP ON SR 1916	1.10 $\pm$ 0.10 E+00
30 INT OF SR 1972 AND US 1	9.00 $\pm$ 1.00 E-01
31 INT OF SR 1910, SR 1909, AND SR 1908	8.00 $\pm$ 1.00 E-01
32 3 MI ON SR 1008 FROM INT SR 1011	9.00 $\pm$ 1.00 E-01
33 SR 1142 AT BARRICADE	1.00 $\pm$ 0.10 E+00
34 APEX AT JONES PARK	1.10 $\pm$ 0.10 E+00
35 HOLLY SPRINGS ON EARP STREET	9.00 $\pm$ 1.00 E-01
36 INT OF SR 1393 AND SR 1421	9.00 $\pm$ 1.00 E-01
37 FUQUAY VARINA AT OLD CP&L OFFICE	1.30 $\pm$ 0.10 E+00
48 SR 1142 AT UNDERGROUND CABLE SIGN	1.00 $\pm$ 0.20 E+00
49 SR 1127 AT WAKE CO TRASH COLLECTION AREA	1.10 $\pm$ 0.10 E+00
50 HOLLEMANS CROSSROADS	8.00 $\pm$ 1.00 E-01
53 INTERSECTION OF SR 1972 AND SR 1907	9.00 $\pm$ 1.00 E-01
56 2.8 MI WSW OF THE SITE	9.00 $\pm$ 2.00 E-01

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