BNE Background Location Concentrations of Iodine-131 in Bi-Weekly Air Iodine Samples

BNE Office (COAI01)

Colle	ction	<u>Period</u>	<u>I-131</u> (pCi/m³)
12/28/09	-	01/11/10	< 0.009
01/11/10	-	01/27/10	< 0.010
01/27/10	-	02/08/10	< 0.024
02/08/10	-	02/24/10	< 0.014
02/24/10	-	03/08/10	< 0.009
03/08/10	-	03/23/10	No Data*
03/23/10	-	04/08/10	< 0.048
04/08/10	-	04/22/10	< 0.003
04/22/10	-	07/14/10	No Data**
07/14/10	-	07/27/10	< 0.013
07/27/10	-	08/10/10	< 0.017
08/10/10	-	09/07/10	No Data***
09/07/10	-	09/21/10	< 0.007
09/21/10	-	10/05/10	< 0.007
10/05/10	-	10/21/10	< 0.006
10/21/10	-	11/03/10	< 0.007
11/03/10	-	11/16/10	< 0.009
11/16/10	-	11/30/10	< 0.015
11/30/10	-	12/14/10	No Data***
12/14/10	-	01/14/10	< 0.014

^{* &#}x27;No Data' indicates that the air iodine result from 03/08/10 through 03/23/10 was not available. The air cartridge was inadvertently discarded by janitorial staff.

^{**} Sample results from 04/22/10 through 07/14/10 are not available due to the shutdown of the BNE's Radiological Contract Lab without notification. These samples were not able to be recovered and the data was lost.

^{***}Air iodine sample results from 08/10/10 through 09/07/10 and 11/30/10 through 12/14/10 are not available. During these weeks the DEP contracted with two different labs under consecutive short term contracts. Sample shipments and analyses were halted pending approval of each contract. Iodine-131 analysis results were no longer obtainable due to radioactive decay. The half-life of Iodine-131 is 8.02 days.

BNE Background Location Concentrations of Iodine-131 in Bi-Weekly Air Iodine Samples

Brendan T. Byrne State Forest (COAI02)

Colle	$\frac{\text{I-131}}{(\text{pCi/m}^3)}$		
12/29/09	-	01/11/10	< 0.010
01/11/10	-	01/26/10	< 0.008
01/26/10	-	02/08/10	< 0.021
02/08/10	-	02/24/10	< 0.011
02/24/10	-	03/08/10	< 0.014
03/08/10	-	03/23/10	< 0.020
03/23/10	-	04/08/10	< 0.029
04/08/10	-	04/20/10	< 0.015
04/20/10	-	07/16/10	No Data*
07/16/10	-	07/27/10	< 0.024
07/27/10	-	08/11/10	< 0.029
08/11/10	-	09/07/10	No Data**
09/07/10	-	09/21/10	< 0.037
09/21/10	-	10/05/10	< 0.009
10/05/10	-	10/18/10	< 0.009
10/18/10	-	11/01/10	< 0.007
11/01/10	-	11/16/10	< 0.016
11/16/10	-	11/30/10*	< 0.016
11/30/10	-	12/16/10	No Data**
12/16/10	-	01/11/11	< 0.017

^{*} Sample results from 04/22/10 through 07/14/10 are not available due to the shutdown of the BNE's Radiological Contract Lab without notification. These samples were not able to be recovered and the data was lost.

^{**}Air iodine sample results from 08/11/10 through 09/07/10 and 11/30/10 through 12/16/10 are not available. During these weeks the DEP contracted with two different labs under consecutive short term contracts. Sample shipments and analyses were halted pending approval of each contract. Iodine-131 analysis results were no longer obtainable due to radioactive decay. The half-life of Iodine-131 is 8.02 days.

Oyster Creek Concentrations of Iodine-131 in Bi-Weekly Air Iodine Samples

Waretown Municipal Building (OCAI01)

<u>Colle</u>	$\frac{\text{I-131}}{(\text{pCi/m}^3)}$		
12/29/09	-	01/11/10	< 0.011
01/11/10	-	01/26/10	< 0.012
01/26/10	-	02/08/10	< 0.021
02/08/10	-	02/24/10	< 0.012
02/24/10	-	03/08/10	< 0.014
03/08/10	-	03/23/10	< 0.020
03/23/10	-	04/07/10	< 0.030
04/07/10	-	04/20/10	< 0.014
04/20/10	-	07/16/10	No Data*
07/16/10	-	07/27/10	< 0.027
07/27/10	-	08/11/10	< 0.018
08/11/10	-	09/07/10	No Data**
09/07/10	-	09/21/10	< 0.006
09/21/10	-	10/05/10	< 0.007
10/05/10	-	10/18/10	< 0.011
10/18/10	-	11/01/10	< 0.008
11/01/10	-	11/16/10	< 0.013
11/16/10	-	11/30/10	< 0.017
11/30/10	-	12/16/10	No Data**
12/16/10	-	01/11/11	< 0.017

^{*} Sample results from 04/20/10 through 07/16/10 are not available due to the shutdown of the BNE's Radiological Contract Lab without notification. These samples were not able to be recovered and the data was lost.

^{**}Air iodine sample results from 08/11/10 through 09/07/10 and 11/30/10 through 12/16/10 are not available. During these weeks the DEP contracted with two different labs under consecutive short term contracts. Sample shipments and analyses were halted pending approval of each contract. Iodine-131 analysis results were no longer obtainable due to radioactive decay. The half-life of Iodine-131 is 8.02 days.

Oyster Creek Concentrations of Iodine-131 in Bi-Weekly Air Iodine Samples

Sands Point Harbor (OCAI02)

<u>Colle</u>	$\frac{\underline{I-131}}{(\underline{pCi/m}^3)}$		
12/29/09	-	01/11/10	< 0.012
01/11/10	-	01/26/10	< 0.007
01/26/10	-	02/08/10	< 0.028
02/08/10	-	02/24/10	< 0.009
02/24/10	-	03/08/10	< 0.012
03/08/10	-	03/23/10	< 0.062
03/23/10	-	04/07/10	< 0.024
04/07/10	-	04/20/10	< 0.009
04/20/10	-	07/16/10	No Data*
07/16/10	-	07/27/10	< 0.020
07/27/10	-	08/11/10	< 0.030
08/11/10	-	09/07/10	No Data**
09/07/10	-	09/21/10	< 0.009
09/21/10	-	10/05/10	< 0.008
10/05/10	-	10/18/10	< 0.009
10/18/10	-	11/01/10	< 0.010
11/01/10	-	11/16/10	< 0.011
11/16/10	-	11/30/10	< 0.010
11/30/10	-	12/16/10	No Data**
12/16/10	-	01/11/11	< 0.011

^{*} Sample results from 04/20/10 through 07/16/10 are not available due to the shutdown of the BNE's Radiological Contract Lab without notification. These samples were not able to be recovered and the data was lost.

^{**}Air iodine sample results from 08/11/10 through 09/07/10 and 11/30/10 through 12/16/10 are not available. During these weeks the DEP contracted with two different labs under consecutive short term contracts. Sample shipments and analyses were halted pending approval of each contract. Iodine-131 analysis results were no longer obtainable due to radioactive decay. The half-life of Iodine-131 is 8.02 days.

Oyster Creek Concentrations of Iodine-131 in Bi-Weekly Air Iodine Samples

Forked River Marina (OCAI03)

<u>Colle</u>	$\frac{\text{I-131}}{(\text{pCi/m}^3)}$		
12/29/09	-	01/11/10	< 0.010
01/11/10	-	01/26/10	< 0.007
01/26/10	-	02/08/10	< 0.025
02/08/10	-	02/24/10	< 0.010
02/24/10	-	03/08/10	< 0.015
03/08/10	-	03/23/10	< 0.019
03/23/10	-	04/07/10	< 0.031
04/07/10	-	04/20/10	< 0.010
04/20/10	-	07/16/10	No Data*
07/16/10	-	07/27/10	< 0.021
07/27/10	-	08/11/10	< 0.015
08/11/10	-	09/07/10	No Data**
09/07/10	-	09/21/10	< 0.007
09/21/10	-	10/05/10	< 0.009
10/05/10	-	10/18/10	< 0.012
10/18/10	-	11/01/10	< 0.005
11/01/10	-	11/16/10	< 0.017
11/16/10	-	11/30/10	< 0.010
11/30/10	-	12/16/10	No Data**
12/16/10	-	01/11/11	< 0.018

^{*} Sample results from 04/20/10 through 07/16/10 are not available due to the shutdown of the BNE's Radiological Contract Lab without notification. These samples were not able to be recovered and the data was lost.

^{**}Air iodine sample results from 08/11/10 through 09/07/10 and 11/30/10 through 12/16/10 are not available. During these weeks the DEP contracted with two different labs under consecutive short term contracts. Sample shipments and analyses were halted pending approval of each contract. Iodine-131 analysis results were no longer obtainable due to radioactive decay. The half-life of Iodine-131 is 8.02 days.

Oyster Creek Concentrations of Iodine-131 in Bi-Weekly Air Iodine Samples

Lacey Township Recreation Building (OCAI04)

Colle	ection	<u>Period</u>	$\frac{\underline{I-131}}{(\underline{pCi/m}^3)}$
12/29/09	-	01/11/10	< 0.013
01/11/10	-	01/26/10	< 0.011
01/26/10	-	02/08/10	< 0.025
02/08/10	-	02/24/10	< 0.010
02/24/10	-	03/08/10	< 0.010
03/08/10	-	03/23/10	< 0.022
03/23/10	-	04/07/10	< 0.025
04/07/10	-	04/20/10	< 0.010
04/20/10	-	07/16/10	No Data*
07/16/10	-	07/27/10	< 0.023
07/27/10	-	08/11/10	< 0.029
08/11/10	-	09/07/10	No Data**
09/07/10	-	09/21/10	< 0.007
09/21/10	-	10/05/10	< 0.010
10/05/10	-	10/18/10	< 0.006
10/18/10	-	11/01/10	< 0.006
11/01/10	-	11/16/10	< 0.015
11/16/10	-	11/30/10	< 0.014
11/30/10	-	12/16/10	No Data**
12/16/10	-	01/11/11	< 0.011

^{*} Sample results from 04/20/10 through 07/16/10 are not available due to the shutdown of the BNE's Radiological Contract Lab without notification. These samples were not able to be recovered and the data was lost.

^{**}Air iodine sample results from 08/11/10 through 09/07/10 and 11/30/10 through 12/16/10 are not available. During these weeks the DEP contracted with two different labs under consecutive short term contracts. Sample shipments and analyses were halted pending approval of each contract. Iodine-131 analysis results were no longer obtainable due to radioactive decay. The half-life of Iodine-131 is 8.02 days.

Oyster Creek Concentrations of Iodine-131 in Bi-Weekly Air Iodine Samples

JCP&L Substation (OCAI05)

Colle	ection	$\frac{\underline{I-131}}{(\underline{pCi/m}^3)}$	
12/29/09	-	01/11/10	< 0.011
01/11/10	-	01/26/10	< 0.009
01/26/10	-	02/08/10	< 0.021
02/08/10	-	02/24/10	< 0.067
02/24/10	-	03/08/10	No Data*
03/08/10	-	03/23/10	No Data*
03/23/10	-	04/07/10	< 0.036
04/07/10	-	04/20/10	< 0.009
04/20/10	-	07/16/10	No Data**
07/16/10	-	07/27/10	< 0.028
07/27/10	-	08/11/10	< 0.027
08/11/10	-	09/07/10	No Data***
09/07/10	-	09/21/10	< 0.012
09/21/10	-	10/05/10	< 0.007
10/05/10	-	10/18/10	< 0.009
10/18/10	-	11/01/10	< 0.009
11/01/10	-	11/16/10	< 0.020
11/16/10	-	11/30/10	< 0.014
11/30/10	-	12/16/10	No Data***
12/16/10	-	01/11/11	< 0.025

^{* &#}x27;No Data' indicates that there were no air iodine sample results due to electrical issues with the power source from Route 9 to the air sampler.

^{**} Sample results from 04/20/10 through 07/16/10 are not available due to the shutdown of the BNE's Radiological Contract Lab without notification. These samples were not able to be recovered and the data was lost.

^{***} Air iodine sample results from 08/11/10 through 09/07/10 and 11/30/10 through 12/16/10 are not available. During these weeks the DEP contracted with two different labs under consecutive short term contracts. Sample shipments and analyses were halted pending approval of each contract. Iodine-131 analysis results were no longer obtainable due to radioactive decay. The half-life of Iodine-131 is 8.02 days.

Oyster Creek Concentrations of Iodine-131 in Weekly* Air Iodine Samples

Finninger Farm, OC Dredge Site (OCAI06)

<u>Colle</u>	ection	<u>Period</u>	$\frac{\text{I-131}}{(\text{pCi/m}^3)}$
12/29/09	-	01/06/10	< 0.016
01/06/10	-	01/13/10	< 0.026
01/13/10	-	01/20/10	< 0.027
01/20/10	-	01/27/10	< 0.018
01/27/10	-	02/03/10	< 0.022
02/03/10	-	02/09/10	< 0.034
02/09/10	-	02/17/10	< 0.031
02/17/10	-	02/24/10	< 0.023
02/24/10	-	03/02/10	< 0.028
03/02/10	-	03/10/10	< 0.019
03/10/10	-	03/17/10	< 0.022
03/17/10	-	03/24/10	< 0.017
03/24/10	-	03/31/10	< 0.026
03/31/10	-	04/07/10	< 0.024
04/07/10	-	04/15/10	< 0.020
04/15/10	-	04/21/10	< 0.027
04/21/10	-	04/28/10	< 0.015
04/28/10	-	05/05/10	< 0.037
05/05/10	-	05/12/10	< 0.017
05/12/10	-	06/30/10	No Data**
06/30/10	-	07/07/10	< 0.058
07/07/10	-	07/14/10	< 0.048
07/14/10	-	07/21/10	< 0.057
07/21/10	-	07/28/10	< 0.029
07/28/10	-	08/04/10	< 0.037
08/04/10	-	08/11/10	< 0.033
08/11/10	-	08/18/10	< 0.023

^{*} Air Iodine samples are collected by the licensee on a weekly basis

^{**} Sample results from 05/12/10 through 06/30/10 are not available due to the shutdown of the BNE's Radiological Contract Lab without notification. These samples were not able to be recovered and the data was lost.

Oyster Creek Concentrations of Iodine-131 in Weekly* Air Iodine Samples

Finninger Farm, OC Dredge Site (OCAP06) (continued)

Co	$\frac{\text{I-131}}{(\text{pCi/m}^3)}$		
08/18/10	-	09/08/10	No Data**
09/08/10	-	09/15/10	< 0.018
09/15/10	-	09/22/10	< 0.020
09/22/10	-	09/29/10	< 0.023
09/29/10	-	10/06/10	< 0.014
10/06/10	-	10/13/10	< 0.017
10/13/10	-	10/20/10	< 0.015
10/20/10	-	10/27/10	< 0.017
10/27/10	-	11/03/10	< 0.022
11/03/10	-	11/10/10	< 0.016
11/10/10	-	11/17/10	< 0.013
11/17/10	-	11/23/10	< 0.042
11/23/10	-	11/30/10	< 0.045
11/30/10	-	12/08/10	< 0.019
12/08/10	-	12/15/10	< 0.026
12/15/10	-	12/21/10	< 0.021
12/21/10	-	01/05/11***	< 0.015

^{*} Air Iodine samples are collected by the licensee on a weekly basis

^{**} Air iodine sample results from 08/18/10 through 09/08/10 are not available. During these weeks the DEP contracted with two different labs under consecutive short term contracts. Sample shipments and analyses were halted pending approval of each contract. Iodine-131 analysis results were no longer obtainable due to radioactive decay. The half-life of Iodine-131 is 8.02 days.

^{***} Air sampler was inaccessible due to the snowfall event on 12/26/10. The cartridge was analyzed as a bi-weekly sample.

Oyster Creek Concentrations of Iodine-131 in Weekly Air Iodine Samples*

Access Road to Finninger Farm Property (ENE Sector) (OCAI07)

<u>Colle</u>	$\frac{\text{I-131}}{(\text{pCi/m}^3)}$		
12/29/09	-	01/11/10	< 0.013
01/11/10	-	01/26/10	< 0.009
01/26/10	-	02/08/10	< 0.030
02/08/10	-	02/24/10	< 0.016
02/24/10	-	03/08/10	< 0.016
03/08/10	-	03/23/10	< 0.022
03/23/10	-	04/07/10	< 0.028
04/07/10	-	04/20/10	< 0.011
04/20/10	-	07/16/10	No Data*
07/16/10	-	07/27/10	< 0.020
07/27/10	-	08/11/10	< 0.029
08/11/10	-	09/07/10	No Data**
09/07/10	-	09/21/10	< 0.008
09/21/10	-	10/05/10	< 0.008
10/05/10	-	10/18/10	< 0.015
10/18/10	-	11/01/10	< 0.008
11/01/10	-	11/16/10	< 0.014
11/16/10	-	11/30/10	< 0.014
11/30/10	-	12/16/10	No Data**
12/16/10	-	01/11/11	< 0.015

^{*} Sample results from 04/20/10 through 07/16/10 are not available due to the shutdown of the BNE's Radiological Contract Lab without notification. These samples were not able to be recovered and the data was lost.

^{**} Air iodine sample results from 08/11/10 through 09/07/10 and 11/30/10 through 12/16/10 are not available. During these weeks the DEP contracted with two different labs under consecutive short term contracts. Sample shipments and analyses were halted pending approval of each contract. Iodine-131 analysis results were no longer obtainable due to radioactive decay. The half-life of Iodine-131 is 8.02 days.

Salem/Hope Creek Concentrations of Iodine-131 in Bi-Weekly Air Iodine Samples

Fort Elfsborg Road (AIAI01)

<u>Colle</u>	ction	<u>Period</u>	$\frac{\underline{I-131}}{(\underline{pCi/m}^3)}$
12/28/09	-	01/11/10	< 0.008
01/11/10	-	01/27/10	< 0.008
01/27/10	-	02/08/10	< 0.019
02/08/10	-	02/22/10	< 0.013
02/22/10	-	03/08/10	< 0.016
03/08/10	-	03/23/10	No Data*
03/23/10	-	04/08/10	< 0.029
04/08/10	-	04/21/10	< 0.009
04/21/10	-	07/14/10	No Data**
07/14/10	-	07/27/10	< 0.018
07/27/10	-	08/10/10	< 0.037
08/10/10	-	09/07/10	No Data***
09/07/10	-	09/21/10	< 0.010
09/21/10	-	10/05/10	< 0.007
10/05/10	-	10/21/10	< 0.008
10/21/10	-	11/01/10	< 0.011
11/01/10	-	11/16/10	< 0.014
11/16/10	-	11/30/10	< 0.012
11/30/10	-	12/14/10	No Data***
12/14/10	-	01/14/11	< 0.011

^{* &#}x27;No Data' indicates that the Air Iodine result from 03/08/10 through 03/23/10 was not available. The air cartridge was inadvertently discarded by janitorial staff.

^{**} Sample results from 04/21/10 through 07/14/10 are not available due to the shutdown of the BNE's Radiological Contract Lab without notification. These samples were not able to be recovered and the data was lost.

^{***} Air iodine sample results from 08/10/10 through 09/07/10 and 11/30/10 through 12/14/10 are not available. During these weeks the DEP contracted with two different labs under consecutive short term contracts. Sample shipments and analyses were halted pending approval of each contract. Iodine-131 analysis results were no longer obtainable due to radioactive decay. The half-life of Iodine-131 is 8.02 days.

Salem/Hope Creek Concentrations of Iodine-131 in Bi-Weekly Air Iodine Samples

Plant Access Road (AIAI02)

Colle	ection	Period	<u>I-131</u> (pCi/m³)
12/28/09	-	01/11/10	< 0.009
01/11/10	-	01/27/10	< 0.009
01/27/10	-	02/08/10	< 0.021
02/08/10	-	02/22/10	< 0.011
02/22/10	-	03/08/10	< 0.009
03/08/10	-	03/23/10	No Data*
03/23/10	-	04/08/10	< 0.024
04/08/10	-	04/21/10	< 0.009
04/21/10	-	07/14/10	No Data**
07/14/10	-	07/27/10	< 0.019
07/27/10	-	08/10/10	< 0.032
08/10/10	-	09/07/10	No Data***
09/07/10	-	09/21/10	< 0.008
09/21/10	-	10/05/10	< 0.006
10/05/10	-	10/21/10	< 0.006
10/21/10	-	11/01/10	< 0.009
11/01/10	-	11/16/10	< 0.012
11/16/10	-	11/30/10	< 0.014
11/30/10	-	12/14/10	No Data***
12/14/10	-	01/14/11	< 0.010

^{* &#}x27;No Data' indicates that the Air Iodine result from 03/08/10 through 03/23/10 was not available. The air cartridge was inadvertently discarded by janitorial staff.

^{**} Sample results from 04/21/10 through 07/14/10 are not available due to the shutdown of the BNE's Radiological Contract Lab without notification. These samples were not able to be recovered and the data was lost.

^{***} Air iodine sample results from 08/10/10 through 09/07/10 and 11/30/10 through 12/14/10 are not available. During these weeks the DEP contracted with two different labs under consecutive short term contracts. Sample shipments and analyses were halted pending approval of each contract. Iodine-131 analysis results were no longer obtainable due to radioactive decay. The half-life of Iodine-131 is 8.02 days.

Salem/Hope Creek Concentrations of Iodine-131 in Bi-Weekly Air Iodine Samples

Lower Alloways Creek School (AIAI03)

Colle	<u>ction</u>	<u>Period</u>	$\frac{\underline{I-131}}{(\underline{pCi/m}^3)}$
12/28/09	-	01/11/10	< 0.010
01/11/10	-	01/27/10	< 0.009
01/27/10	-	02/08/10	< 0.021
02/08/10	-	02/22/10	< 0.011
02/22/10	-	03/08/10	< 0.013
03/08/10	-	03/23/10	No Data*
03/23/10	-	04/08/10	< 0.022
04/08/10	-	04/21/10	< 0.009
04/21/10	-	07/14/10	No Data**
07/14/10	-	07/27/10	< 0.017
07/27/10	-	08/10/10	< 0.016
08/10/10	-	09/07/10	No Data***
09/07/10	-	09/21/10	< 0.010
09/21/10	-	10/05/10	< 0.008
10/05/10	-	10/21/10	< 0.005
10/21/10	-	11/01/10	< 0.009
11/01/10	-	11/16/10	< 0.015
11/16/10	-	11/30/10	< 0.021
11/30/10	-	12/14/10	No Data***
12/14/10	-	01/14/11	< 0.009

^{* &#}x27;No Data' indicates that the Air Iodine result from 03/03/10 through 03/23/10 was not available. The air cartridge was inadvertently discarded by janitorial staff.

^{**} Sample results from 04/21/10 through 07/14/10 are not available due to the shutdown of the BNE's Radiological Contract Lab without notification. These samples were not able to be recovered and the data was lost.

^{***} Air iodine sample results from 08/10/10 through 09/07/10 and 11/30/10 through 12/14/10 are not available. During these weeks the DEP contracted with two different labs under consecutive short term contracts. Sample shipments and analyses were halted pending approval of each contract. Iodine-131 analysis results were no longer obtainable due to radioactive decay. The half-life of Iodine-131 is 8.02 days.

BNE Background Location Concentrations of Gross Beta in Bi-Weekly Air Particulate Samples

BNE Office (COAP01)

Collection Period			Particulate Gross Beta (pCi/m³)
12/28/09	-	01/11/10	0.015 ± 0.0010
01/11/10	-	01/27/10	0.024 ± 0.0020
01/27/10	-	02/08/10	0.021 ± 0.0010
02/08/10	-	02/24/10	0.020 ± 0.0010
02/24/10	-	03/08/10	0.011 ± 0.0010
03/08/10	-	03/23/10	No Data*
03/23/10	-	04/08/10	0.060 ± 0.0040
04/08/10	-	04/22/10	0.009 ± 0.0010
04/22/10	-	06/15/10	No Data**
06/15/10	-	06/29/10	0.017 ± 0.0010
06/29/10	-	07/14/10	0.031 ± 0.0010
07/14/10	-	07/27/10	0.017 ± 0.0010
07/27/10	-	08/10/10	0.018 ± 0.0010
08/10/10	-	08/24/10	0.006 ± 0.0010
08/24/10	-	09/07/10	0.024 ± 0.0020
09/07/10	-	09/21/10	0.028 ± 0.0020
09/21/10	-	10/05/10	0.017 ± 0.0020
10/05/10	-	10/21/10	0.025 ± 0.0020
10/21/10	-	11/03/10	0.021 ± 0.0020
11/03/10	-	11/16/10	0.030 ± 0.0020
11/16/10	-	11/30/10	0.018 ± 0.0020
11/30/10	-	12/14/10	0.074 ± 0.0040
12/14/10	-	01/14/11	0.011 ± 0.0010

^{* &#}x27;No Data' indicates the Air Particulate gross beta result for the period of 03/08/10 through 03/23/10 was not available. The air cartridge was inadvertently discarded by janitorial staff.

^{**} Sample results from 04/22/10 through 06/15/10 are not available due to the shutdown of the BNE's Radiological Contract Lab without notification. These samples were not able to be recovered and the data was lost.

BNE Background Location Concentrations of Gross Beta in Bi-Weekly Air Particulate Samples

Brendan T. Byrne State Forest (COAP02)

Collection Period			Particulate Gross Beta (pCi/m³)
12/29/09	-	01/11/10	0.016 ± 0.0010
01/11/10	-	01/26/10	0.023 ± 0.0010
01/26/10	-	02/08/10	0.023 ± 0.0010
02/08/10	-	02/24/10	0.015 ± 0.0010
02/24/10	-	03/08/10	0.012 ± 0.0010
03/08/10	-	03/23/10	0.021 ± 0.0010
03/23/10	-	04/08/10	0.018 ± 0.0010
04/08/10	-	04/20/10	0.017 ± 0.0010
04/20/10	-	06/16/10	No Data*
06/16/10	-	06/30/10	0.017 ± 0.0010
06/30/10	-	07/16/10	0.018 ± 0.0010
07/16/10	-	07/27/10	0.024 ± 0.0010
07/27/10	-	08/11/10	0.018 ± 0.0010
08/11/10	-	08/24/10	0.009 ± 0.0010
08/24/10	-	09/07/10	0.007 ± 0.0010
09/07/10	-	09/21/10	No Data**
09/21/10	-	10/05/10	0.022 ± 0.0020
10/05/10	-	10/18/10	0.030 ± 0.0020
10/18/10	-	11/01/10	0.023 ± 0.0020
11/01/10	-	11/16/10	0.019 ± 0.0020
11/16/10	-	11/30/10	0.036 ± 0.0030
11/30/10	-	12/16/10	0.047 ± 0.0030
12/16/10	-	01/11/11	0.012 ± 0.0010

^{*} Sample results from 04/20/10 through 06/16/10 are not available due to the shutdown of the BNE's Radiological Contract Lab without notification. These samples were not able to be recovered and the data was lost.

^{** &#}x27;No Data' indicates no sample result was available due to maintenance issues with equipment (the air sampler required replacement).

Oyster Creek Concentrations of Gross Beta in Bi-Weekly Air Particulate Samples

Waretown Municipal Building (OCAP01)

Collection Period			Particulate Gross Beta (pCi/m³)
12/29/09	-	01/11/10	0.017 ± 0.0010
01/11/10	-	01/26/10	0.022 ± 0.0010
01/26/10	-	02/08/10	0.021 ± 0.0010
02/08/10	-	02/24/10	0.011 ± 0.0010
02/24/10	-	03/08/10	0.012 ± 0.0010
03/08/10	-	03/23/10	0.021 ± 0.0010
03/23/10	-	04/0710	0.013 ± 0.0010
04/07/10	-	04/20/10	0.015 ± 0.0010
04/20/10	-	06/14/10	No Data*
06/14/10	-	06/30/10	0.016 ± 0.0010
06/30/10	-	07/16/10	0.016 ± 0.0010
07/16/10	-	07/27/10	0.022 ± 0.0010
07/27/10	-	08/11/10	0.018 ± 0.0010
08/11/10	-	08/24/10	0.016 ± 0.0010
08/24/10	-	09/07/10	0.018 ± 0.0020
09/07/10	-	09/21/10	0.029 ± 0.0020
09/21/10	-	10/05/10	0.020 ± 0.0020
10/05/10	-	10/18/10	0.025 ± 0.0020
10/18/10	-	11/01/10	0.025 ± 0.0020
11/01/10	-	11/16/10	0.020 ± 0.0020
11/16/10	-	11/30/10	0.035 ± 0.0030
11/30/10	-	12/16/10	0.041 ± 0.0030
12/16/10	-	01/11/11	0.013 ± 0.0010

^{*} Sample results from 04/20/10 through 06/14/10 are not available due to the shutdown of the BNE's Radiological Contract Lab without notification. These samples were not able to be recovered and the data was lost.

Oyster Creek Concentrations of Gross Beta in Bi-Weekly Air Particulate Samples

Sands Point Harbor (OCAP02)

Collection Period			Particulate Gross Beta (pCi/m³)
12/29/09	-	01/11/10	0.015 ± 0.0010
01/11/10	-	01/26/10	0.020 ± 0.0010
01/26/10	-	02/08/10	0.021 ± 0.0010
02/08/10	-	02/24/10	0.011 ± 0.0010
02/24/10	-	03/08/10	0.015 ± 0.0010
03/08/10	-	03/23/10	0.033 ± 0.0020
03/23/10	-	04/07/10	0.013 ± 0.0010
04/07/10	-	04/20/10	0.016 ± 0.0010
04/20/10	-	06/14/10	No Data*
06/14/10	-	06/30/10	0.016 ± 0.0006
06/30/10	-	07/16/10	0.017 ± 0.0006
07/16/10	-	07/27/10	0.023 ± 0.0009
07/27/10	-	08/11/10	0.017 ± 0.0007
08/11/10	-	08/24/10	0.016 ± 0.0010
08/24/10	-	09/07/10	0.021 ± 0.0020
09/07/10	-	09/21/10	0.029 ± 0.0020
09/21/10	-	10/05/10	0.017 ± 0.0020
10/05/10	-	10/18/10	0.026 ± 0.0020
10/18/10	-	11/01/10	0.022 ± 0.0020
11/01/10	-	11/16/10	0.016 ± 0.0020
11/16/10	-	11/30/10	0.038 ± 0.0030
11/30/10	-	12/16/10	0.047 ± 0.0030
12/16/10	-	01/11/11	0.011 ± 0.0010

^{*} Sample results from 04/20/10 through 06/14/10 are not available due to the shutdown of the BNE's Radiological Contract Lab without notification. These samples were not able to be recovered and the data was lost.

Oyster Creek Concentrations of Gross Beta in Bi-Weekly Air Particulate Samples

Forked River Marina (OCAP03)

Collection Period			Particulate Gross Beta (pCi/m³)
12/29/09	-	01/11/10	0.016 ± 0.0010
01/11/10	-	01/26/10	0.021 ± 0.0010
01/26/10	-	02/08/10	0.021 ± 0.0010
02/08/10	-	02/24/10	0.010 ± 0.0010
02/24/10	-	03/08/10	0.013 ± 0.0010
03/08/10	-	03/23/10	0.020 ± 0.0010
03/23/10	-	04/07/10	0.013 ± 0.0010
04/07/10	-	04/20/10	0.016 ± 0.0010
04/20/10	-	06/14/10	No Data*
06/14/10	-	06/30/10	0.017 ± 0.0007
06/30/10	-	07/16/10	0.017 ± 0.0007
07/16/10	-	07/27/10	0.023 ± 0.0010
07/27/10	-	08/11/10	0.018 ± 0.0007
08/11/10	-	08/24/10	0.017 ± 0.0010
08/24/10	-	09/07/10	0.021 ± 0.0020
09/07/10	-	09/21/10	0.030 ± 0.0020
09/21/10	-	10/05/10	0.021 ± 0.0020
10/05/10	-	10/18/10	0.025 ± 0.0020
10/18/10	-	11/01/10	0.022 ± 0.0020
11/01/10	-	11/16/10	0.019 ± 0.0020
11/16/10	-	11/30/10	0.036 ± 0.0030
11/30/10	-	12/16/10	0.048 ± 0.0030
12/16/10	-	01/11/11	0.013 ± 0.0010

^{*} Sample results from 04/20/10 through 06/14/10 are not available due to the shutdown of the BNE's Radiological Contract Lab without notification. These samples were not able to be recovered and the data was lost.

Oyster Creek Concentrations of Gross Beta in Bi-Weekly Air Particulate Samples

Lacey Twp. Recreation Building (OCAP04)

Collection Period			Particulate Gross Beta (pCi/m³)
12/29/09	-	01/11/10	0.014 ± 0.0010
01/11/10	-	01/26/10	0.028 ± 0.0010
01/26/10	-	02/08/10	0.020 ± 0.0010
02/08/10	-	02/24/10	0.012 ± 0.0010
02/24/10	-	03/08/10	0.006 ± 0.0010
03/08/10	-	03/23/10	0.021 ± 0.0010
03/23/10	-	04/07/10	0.013 ± 0.0010
04/07/10	-	04/20/10	0.014 ± 0.0010
04/20/10	-	06/14/10	No Data*
06/14/10	-	06/30/10	0.017 ± 0.0006
06/30/10	-	07/16/10	0.017 ± 0.0006
07/16/10	-	07/27/10	0.022 ± 0.0009
07/27/10	-	08/11/10	0.017 ± 0.0007
08/11/10	-	08/24/10	0.019 ± 0.0011
08/24/10	-	09/07/10	0.016 ± 0.0010
09/07/10	-	09/21/10	0.032 ± 0.0020
09/21/10	-	10/05/10	0.021 ± 0.0020
10/05/10	-	10/18/10	0.025 ± 0.0020
10/18/10	-	11/01/10	0.022 ± 0.0020
11/01/10	-	11/16/10	0.019 ± 0.0020
11/16/10	-	11/30/10	0.043 ± 0.0030
11/30/10	-	12/16/10	0.043 ± 0.0020
12/16/10	-	01/11/11	0.011 ± 0.0010

^{*} Sample results from 04/20/10 through 06/14/10 are not available due to the shutdown of the BNE's Radiological Contract Lab without notification. These samples were not able to be recovered and the data was lost.

Oyster Creek Concentrations of Gross Beta in Bi-Weekly Air Particulate Samples

JCP&L Substation (OCAP05)

Collection Period			Particulate Gross Bet (pCi/m³)
12/29/09	-	01/11/10	0.016 ± 0.0010
01/11/10	-	01/26/10	0.022 ± 0.0010
01/26/10	-	02/08/10	0.018 ± 0.0010
02/08/10	-	02/24/10	0.024 ± 0.0040
02/24/10	-	03/08/10	No Data*
03/08/10	-	03/23/10	No Data*
03/23/10	-	04/07/10	0.014 ± 0.0010
04/07/10	-	04/20/10	0.014 ± 0.0010
04/20/10	-	06/14/10	No Data**
06/14/10	-	06/30/10	0.016 ± 0.0007
06/30/10	-	07/16/10	0.016 ± 0.0007
07/16/10	-	07/27/10	0.021 ± 0.0009
07/27/10	-	08/11/10	0.020 ± 0.0009
08/11/10	-	08/24/10	0.017 ± 0.0012
08/24/10	-	09/07/10	0.021 ± 0.0020
09/07/10	-	09/21/10	0.029 ± 0.0020
09/21/10	-	10/05/10	0.021 ± 0.0020
10/05/10	-	10/18/10	0.022 ± 0.0020
10/18/10	-	11/01/10	0.021 ± 0.0020
11/01/10	-	11/16/10	0.018 ± 0.0020
11/16/10	-	11/30/10	0.031 ± 0.0020
11/30/10	-	12/16/10	0.044 ± 0.0030
12/16/10	-	01/11/11	0.015 ± 0.0020

^{* &#}x27;No Data' indicates no sample results due to electrical issues with the power source from Route 9 to the air sampler.

^{**} Sample results from 04/20/10 through 06/14/10 are not available due to the shutdown of the BNE's Radiological Contract Lab without notification. These samples were not able to be recovered and the data was lost.

Oyster Creek Concentrations of Gross Beta in Weekly* Air Particulate Samples

Finninger Farm, OC Dredge Site (OCAP06)

<u>Colle</u>	ction	Period	Particulate Gross Beta (pCi/m³)
12/29/09	-	01/06/10	0.023 ± 0.0030
01/06/10	-	01/13/10	0.025 ± 0.0030
01/13/10	-	01/20/10	0.037 ± 0.0040
01/20/10	-	01/27/10	0.026 ± 0.0040
01/27/10	-	02/03/10	0.023 ± 0.0020
02/03/10	-	02/09/10	0.024 ± 0.0030
02/09/10	-	02/17/10	0.018 ± 0.0020
02/17/10	-	02/24/10	0.013 ± 0.0020
02/24/10	-	03/02/10	0.013 ± 0.0020
03/02/10	-	03/10/10	0.033 ± 0.0030
03/10/10	-	03/17/10	0.022 ± 0.0020
03/17/10	-	03/24/10	0.030 ± 0.0030
03/24/10	-	03/31/10	0.024 ± 0.0030
03/31/10	-	04/07/10	0.019 ± 0.0020
04/07/10	-	04/15/10	0.024 ± 0.0020
04/15/10	-	04/21/10	0.018 ± 0.0020
04/21/10	-	04/28/10	0.028 ± 0.0030
04/28/10	-	05/05/10	0.025 ± 0.0030
05/05/10	-	05/12/10	0.028 ± 0.0030
05/12/10	-	06/30/10	No Data**
06/30/10	-	07/07/10	0.033 ± 0.0019
07/07/10	-	07/14/10	0.028 ± 0.0019
07/14/10	-	07/21/10	0.030 ± 0.0028
07/21/10	-	07/28/10	0.029 ± 0.0027
07/28/10	-	08/04/10	0.024 ± 0.0017
08/04/10	-	08/11/10	0.037 ± 0.0021
08/11/10	-	08/18/10	0.025 ± 0.0018

^{*} Air Particulate samples are collected by the licensee on a weekly basis

^{**} Sample results from 05/12/10 through 06/30/10 are not available due to the shutdown of the BNE's Radiological Contract Lab without notification. These samples were not able to be recovered and the data was lost.

Oyster Creek Concentrations of Gross Beta in Weekly* Air Particulate Samples

Finninger Farm, OC Dredge Site (OCAP06) (continued)

Collection Period			Particulate Gross Beta (pCi/m³)
08/18/10	-	08/25/10	0.032 ± 0.0029
08/25/10	-	09/01/10	0.059 ± 0.0060
09/01/10	-	09/08/10	0.062 ± 0.0060
09/08/10	-	09/15/10	0.033 ± 0.0050
09/15/10	-	09/22/10	0.040 ± 0.0050
09/22/10	-	09/29/10	0.051 ± 0.0060
09/29/10	-	10/06/10	0.022 ± 0.0040
10/06/10	-	10/13/10	0.063 ± 0.0070
10/13/10	-	10/20/10	0.039 ± 0.0050
10/20/10	-	10/27/10	0.036 ± 0.0050
10/27/10	-	11/03/10	0.028 ± 0.0040
11/03/10	-	11/10/10	0.028 ± 0.0050
11/10/10	-	11/17/10	0.047 ± 0.0060
11/17/10	-	11/23/10	0.063 ± 0.0070
11/23/10	-	11/30/10	0.046 ± 0.0060
11/30/10	-	12/08/10	0.033 ± 0.0050
12/08/10	-	12/15/10	0.036 ± 0.0050
12/15/10	-	12/21/10	0.050 ± 0.0060
12/21/10	-	01/05/11**	0.035 ± 0.0030

^{*} Air Particulate samples are collected by the licensee on a weekly basis

^{**} Air sampler was inaccessible due to the snowfall event on 12/26/10. The filter was analyzed as a biweekly sample.

Oyster Creek Concentrations of Gross Beta in Weekly Air Particulate Samples

Access Road to Finninger Farm Property (ENE Sector) (OCAP07)

Collection Period			Particulate Gross Beta (pCi/m³)
12/29/09	-	01/11/10	0.017 ± 0.0010
01/11/10	-	01/26/10	0.023 ± 0.0010
01/26/10	-	02/08/10	0.023 ± 0.0010
02/08/10	-	02/24/10	0.011 ± 0.0010
02/24/10	-	03/08/10	0.014 ± 0.0010
03/08/10	-	03/23/10	0.022 ± 0.0010
03/23/10	-	04/07/10	0.014 ± 0.0010
04/07/10	-	04/20/10	0.015 ± 0.0010
04/20/10	-	06/14/10	No Data*
06/14/10	-	06/30/10	0.017 ± 0.0006
06/30/10	-	07/16/10	0.017 ± 0.0006
07/16/10	-	07/27/10	0.024 ± 0.0010
07/27/10	-	08/11/10	0.018 ± 0.0007
08/11/10	-	08/24/10	0.017 ± 0.0011
08/24/10	-	09/07/10	0.019 ± 0.0020
09/07/10	-	09/21/10	0.027 ± 0.0020
09/21/10	-	10/05/10	0.021 ± 0.0020
10/05/10	-	10/18/10	0.026 ± 0.0020
10/18/10	-	11/01/10	0.023 ± 0.0020
11/01/10	-	11/16/10	0.019 ± 0.0020
11/16/10	-	11/30/10	0.033 ± 0.0020
11/30/10	-	12/16/10	0.043 ± 0.0030
12/16/10	-	01/11/11	0.012 ± 0.0010

^{*} Sample results from 04/20/10 through 06/14/10 are not available due to the shutdown of the BNE's Radiological Contract Lab without notification. These samples were not able to be recovered and the data was lost.

Salem/Hope Creek Concentrations of Gross Beta in Bi-Weekly Air Particulate Samples

Fort Elfsborg Road (AIAP01)

Collection Period			Particulate Gross Beta (pCi/m³)
12/28/09	-	01/11/10	0.017 ± 0.0010
01/11/10	-	01/27/10	0.026 ± 0.0010
01/27/10	-	02/08/10	0.027 ± 0.0020
02/08/10	-	02/22/10	0.016 ± 0.0010
02/22/10	-	03/08/10	0.013 ± 0.0010
03/08/10	-	03/23/10	No Data*
03/23/10	-	04/08/10	0.016 ± 0.0010
04/08/10	-	04/21/10	0.014 ± 0.0010
04/21/10	-	06/15/10	No Data **
06/15/10	-	06/29/10	0.018 ± 0.0010
06/29/10	-	07/14/10	0.018 ± 0.0010
07/14/10	-	07/27/10	0.023 ± 0.0010
07/27/10	-	08/10/10	0.019 ± 0.0010
08/10/10	-	08/24/10	0.022 ± 0.0010
08/24/10	-	09/07/10	0.024 ± 0.0020
09/07/10	-	09/21/10	0.036 ± 0.0020
09/21/10	-	10/05/10	0.024 ± 0.0020
10/05/10	-	10/21/10	0.027 ± 0.0020
10/21/10	-	11/01/10	0.023 ± 0.0020
11/01/10	-	11/16/10	0.018 ± 0.0020
11/16/10	-	11/30/10	0.041 ± 0.0030
11/30/10	-	12/14/10	0.078 ± 0.0040
12/14/10	-	01/14/11	0.008 ± 0.0010

^{* &#}x27;No Data' indicates that the Air Particulate gross beta result from 03/08/10 through 03/23/10 was not available. The air cartridge was inadvertently discarded by janitorial staff.

^{**} Sample results from 04/21/10 through 06/15/10 are not available due to the shutdown of the BNE's Radiological Contract Lab without notification. These samples were not able to be recovered and the data was lost.

Salem/Hope Creek Concentrations of Gross Beta in Bi-Weekly Air Particulate Samples

Plant Access Road (AIAP02)

<u>Colle</u>	ction	ı Period	Particulate Gross Beta (pCi/m³)
12/28/09	-	01/11/10	0.015 ± 0.0010
01/11/10	-	01/27/10	0.025 ± 0.0010
01/27/10	-	02/08/10	0.024 ± 0.0010
02/08/10	-	02/22/10	0.016 ± 0.0010
02/22/10	-	03/08/10	0.013 ± 0.0010
03/08/10	-	03/23/10	No Data*
03/23/10	-	04/08/10	0.014 ± 0.0010
04/08/10	-	04/21/10	0.014 ± 0.0010
04/21/10	-	06/15/10	No Data**
06/15/10	-	06/29/10	0.018 ± 0.0007
06/29/10	-	07/14/10	0.018 ± 0.0007
07/14/10	-	07/27/10	0.021 ± 0.0008
07/27/10	-	08/10/10	0.019 ± 0.0007
08/10/10	-	08/24/10	0.021 ± 0.0010
08/24/10	-	09/07/10	0.021 ± 0.0020
09/07/10	-	09/21/10	0.034 ± 0.0020
09/21/10	-	10/05/10	0.022 ± 0.0020
10/05/10	-	10/21/10	0.029 ± 0.0020
10/21/10	-	11/01/10	0.023 ± 0.0020
11/01/10	-	11/16/10	0.020 ± 0.0020
11/16/10	-	11/30/10	0.040 ± 0.0030
11/30/10	-	12/14/10	0.073 ± 0.0040
12/14/10	-	01/14/11	0.008 ± 0.0010

^{* &#}x27;No Data' indicates that the Air particulate gross beta result from 03/08/10 through 03/23/10 was not available. The air cartridge was inadvertently discarded by janitorial staff.

^{**} Sample results from 04/21/10 through 06/15/10 are not available due to the shutdown of the BNE's Radiological Contract Lab without notification. These samples were not able to be recovered and the data was lost.

Salem/Hope Creek Concentrations of Gross Beta in Bi-Weekly Air Particulate Samples

Lower Alloways Creek School (AIAP03)

<u>Colle</u>	ctior	n Period	Particulate Gross Beta (pCi/m³)
12/28/09	-	01/11/10	0.015 ± 0.0010
01/11/10	-	01/27/10	0.026 ± 0.0010
01/27/10	-	02/08/10	0.021 ± 0.0010
02/08/10	-	02/22/10	0.017 ± 0.0010
02/22/10	-	03/08/10	0.012 ± 0.0010
03/08/10	-	03/23/10	No Data*
03/23/10	-	04/08/10	0.016 ± 0.0010
04/08/10	-	04/21/10	0.015 ± 0.0010
04/21/10	-	06/15/10	No Data**
06/15/10	-	06/29/10	0.017 ± 0.0006
06/29/10	-	07/14/10	0.016 ± 0.0006
07/14/10	-	07/27/10	0.021 ± 0.0007
07/27/10	-	08/10/10	0.017 ± 0.0007
08/10/10	-	08/24/10	0.020 ± 0.0010
08/24/10	-	09/07/10	0.023 ± 0.0020
09/07/10	-	09/21/10	0.031 ± 0.0020
09/21/10	-	10/05/10	0.023 ± 0.0020
10/05/10	-	10/21/10	0.028 ± 0.0020
10/21/10	-	11/01/10	0.018 ± 0.0020
11/01/10	-	11/16/10	0.020 ± 0.0020
11/16/10	-	11/30/10	0.040 ± 0.0030
11/30/10	-	12/14/10	0.073 ± 0.0040
12/14/10	-	01/14/11	0.009 ± 0.0010

^{* &#}x27;No Data' indicates that the Air particulate gross beta result from 03/08/10 through 03/23/10 was not available. The air cartridge was inadvertently discarded by janitorial staff.

^{**} Sample results from 04/21/10 through 06/15/10 are not available due to the shutdown of the BNE's Radiological Contract Lab without notification. These samples were not able to be recovered and the data was lost.

BNE Background Location Concentrations of Gamma Emitters and Strontium in Quarterly Composite Air Samples

<u>Colle</u>	ection	<u> Period</u>	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>Be-7</u>	<u>Sr-89</u>	<u>Sr-90</u>
06/15/10	-	09/21/10	< 1.0	< 0.8	< 0.8	86 ± 25	< 1.2	< 0.1
09/21/10	-	12/14/10	< 1.0	< 1.0	< 1.0	150 ± 24	< 5.0	< 1.0

Brendan T. Byrne State Forest (COAP02)

Collec	ctioi	n Period	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>Be-7</u>	<u>Sr-89</u>	<u>Sr-90</u>
06/16/10	-	09/21/10	< 0.7	< 0.7	< 0.6	40 ± 18	< 0.8	< 0.1
09/21/10	_	12/16/10	< 1.0	< 1.0	< 1.0	111 ± 22	< 5.0	< 2.0

Results in 10⁻³ picoCuries per cubic meter (pCi/m³) +/- 2 Standard Deviations

Beryllium-7 (Be-7) is a naturally occurring radionuclide found in the environment.

<u>Note:</u> Air Particulate quarterly composite analysis results were not available from December 30, 2009 through June 14, 2010 due to the shutdown of the BNE's Radiological Contract Lab without notification. These samples were not able to be recovered and the data was lost. Samples were lost due to the unexpected interruption in contract laboratory services during the calendar year.

Oyster Creek Concentrations of Gamma Emitters and Strontium in Quarterly Composite Air Samples

Waretown	Mun	icipal Buildin	g (OCAP01	<u>1)</u>				
Colle	ction	Period	Co-60	Cs-134	Cs-137	<u>Be-7</u>	<u>Sr-89</u>	<u>Sr-90</u>
06/14/10	-	09/21/10	< 1.1	< 1.1	< 1.1	71 ± 28	< 0.6	< 0.1
09/21/10	-	12/16/10	< 1.0	< 1.0	< 1.0	142 ± 23	< 5.0	< 3.0
Sands Poin	t Har	bor (OCAP0	<u>2</u>)					
<u>Colle</u>	ction	Period	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>Be-7</u>	<u>Sr-89</u>	<u>Sr-90</u>
06/14/10	-	09/21/10	< 0.4	< 0.5	< 0.5	41 ± 13	< 0.6	< 0.1
09/21/10	-	12/16/10	< 1.0	< 1.0	< 1.0	105 ± 20	< 5.0	< 1.0
Forked Riv	er M	arina (OCAP	<u>203)</u>					
<u>Colle</u>	ction	Period	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>Be-7</u>	<u>Sr-89</u>	<u>Sr-90</u>
06/14/10	-	09/21/10	< 0.7	< 0.5	< 0.5	52 ± 16	< 0.6	< 0.1
09/21/10	-	12/16/10	< 1.0	< 1.0	< 1.0	127 ± 22	< 6.0	< 2.0
Lacey Town	nship	Recreation I	Building (O	CAP04)				
Colle	ction	Period	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>Be-7</u>	<u>Sr-89</u>	<u>Sr-90</u>
06/14/10	-	09/21/10	< 0.6	< 0.4	< 0.3	41 ± 12	< 0.6	< 0.1
09/21/10	-	12/16/10	< 1.0	< 1.0	< 1.0	150 ± 24	< 4.0	< 2.0

Results in 10⁻³ picoCuries per cubic meter (pCi/m³) +/- 2 Standard Deviations

Beryllium-7 (Be-7) is a naturally occurring radionuclide found in the environment.

<u>Note:</u> Air Particulate quarterly composite analysis results were not available from December 30, 2009 through June 13, 2010 due to the shutdown of the BNE's Radiological Contract Lab without notification. These samples were not able to be recovered and the data was lost. Samples were lost due to the unexpected interruption in contract laboratory services during the calendar year

Oyster Creek Concentrations of Gamma Emitters and Strontium in Quarterly Composite Air Samples

Jersey Cen	tral l	Power and Lig	ght Substat	ion (OCAP	<u>05)</u>			
Collection Period		<u>Co-60</u>	<u>Cs-134</u>	Cs-137	Be-7	<u>Sr-89</u>	<u>Sr-90</u>	
06/14/10	-	09/21/10	< 0.8	< 0.5	< 0.7	55 ± 18	< 0.7	< 0.1
09/21/10	-	12/16/10	< 1.0	< 1.0	< 1.0	98 ± 21	< 5.0	< 2.0
Finninger I	Farm	, OC Dredge	Site (OCAI	<u> 206)</u>				
Collection Period		<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>Be-7</u>	<u>Sr-89</u>	<u>Sr-90</u>	
06/23/10	-	09/29/10	< 38.9	< 27.7*	< 34.0*	< 1011.0	< 15.1	< 2.2
09/29/10	-	01/05/11	< 1.0	< 1.0	< 1.0	81 ± 20	< 4.0	< 2.0
Access Roa	d, Fi	nninger Farm	Property	(ENE Secto	r) (OCAP0	<u>7)</u>		
<u>Colle</u>	ection	<u>ı Period</u>	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>Be-7</u>	<u>Sr-89</u>	<u>Sr-90</u>
06/14/10	-	09/21/10	< 0.7	< 0.4	< 0.5	31 ± 14	< 0.6	< 0.1
09/21/10	-	12/16/10	< 1.0	< 1.0	< 1.0	131 ± 23	< 5.0	< 2.0

Results in 10⁻³ picoCuries per cubic meter (pCi/m³) +/- 2 Standard Deviations

Beryllium-7 (Be-7) is a naturally occurring radionuclide found in the environment.

<u>Note:</u> Air Particulate quarterly composite analysis results were not available from December 30, 2009 through June 13, 2010 due to the shutdown of the BNE's Radiological Contract Lab without notification. These samples were not able to be recovered and the data was lost.

^{*} Contract MDC's for Cs-134 and Cs-137 were not achieved by the laboratory due to insufficient sample volume.

Salem/Hope Creek Concentrations of Gamma Emitters and Strontium in Quarterly Composite Air Samples

<u>Fort Elfsbo</u>	rg R	<u>oad (AIAP01)</u>						
Colle	ction	Period	<u>Co-60</u>	Cs-134	<u>Cs-137</u>	<u>Be-7</u>	<u>Sr-89</u>	<u>Sr-90</u>
06/15/10	-	09/21/10	< 1.3	< 1.2	< 1.2	78 ± 31	< 0.7	< 0.1
09/21/10	-	12/14/10	< 1.0	< 1.0	< 1.0	167 ± 27	< 5.0	< 1.0
Plant Acces	s Ro	ad (AIAP02)						
Colle	ction	Period	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>Be-7</u>	<u>Sr-89</u>	<u>Sr-90</u>
06/15/10	-	09/21/10	< 0.5	< 0.4	< 0.5	51 ± 15	< 0.5	< 0.1
09/21/10	-	12/14/10	< 1.0	< 1.0	< 1.0	133 ± 23	< 5.0	< 1.0
Lower Allo	ways	Creek Schoo	l (AIAP03)					
Colle	ction	Period	<u>Co-60</u>	Cs-134	<u>Cs-137</u>	<u>Be-7</u>	<u>Sr-89</u>	<u>Sr-90</u>
06/15/10	-	09/21/10	< 0.5	< 0.4	< 0.4	$5\overline{4}\pm\overline{1}5$	< 0.6	< 0.1
09/21/10	-	12/14/10	< 1.0	< 1.0	< 1.0	170 ± 25	< 4.0	< 1.0

Results in 10⁻³ picoCuries per cubic meter (pCi/m³) +/- 2 Standard Deviations

Beryllium-7 (Be-7) is a naturally occurring radionuclide found in the environment.

<u>Note:</u> Air Particulate quarterly composite analysis results were not available from December 30, 2009 through June 13, 2010 due to the shutdown of the BNE's Radiological Contract Lab without notification. These samples were not able to be recovered and the data was lost.

Oyster Creek Concentrations of Gamma Emitters and Strontium in Fish/Shellfish Samples

Stouts Creek (OCFS	<u> 501)</u>						
Collection Date	Co-58	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	$\underline{\mathbf{K-40}}$	<u>Sr-89</u>	<u>Sr-90</u>
04/13/10 - Clams	< 3	< 3	< 2	< 3	1302 ± 117	< 314	< 179
10/11/10 - Clams	< 11	< 16	< 21	< 13	1200 ± 281	< 671	< 610
East of Site – Barnes	gat Bay (OC	(FS02)					
Collection Date	Co-58	Co-60	Cs-134	Cs-137	K-40	Sr-89	Sr-90
04/13/10 - Clams	< 3	< 4	< 3	< 4	1344 ± 131	< 328	< 190
10/11/10 - Clams	< 13	< 17	< 15	< 13	1110 ± 273	< 817	< 945
Great Bay / Little Eg	gg Harbor ((OCFS03)					
Collection Date	Co-58	Co-60	Cs-134	Cs-137	K-40	Sr-89	Sr-90
04/13/10 - Clams	< 2	< 2	< 2	< 2	$10\overline{62 \pm 84}$	< 344	< 199
10/12/10 - Clams	< 14	< 10	< 13	< 14	1280 ± 256	< 818	< 615

Results in picoCuries per kilogram – WET (pCi/kg) +/- 2 Standard Deviations

Potassium-40 (K-40) is a naturally occurring radionuclide found in the environment

Oyster Creek Concentrations of Gamma Emitters and Strontium in Fish/Shellfish Samples

OCNGS Discharge Canal between Pump Discharges and US Route 9 (OCFS04)

0 0 1 1 0 10 1 10 1 10 1 10 1		0,111		0 10 0 0 1 1	7 (00-100-1		
Collection Date	<u>Co-58</u>	<u>Co-60</u>	Cs-134	Cs-137	K-40	<u>Sr-89</u>	<u>Sr-90</u>
04/14/10 - Bluefish	< 5	< 5	< 5	< 5	4741 ± 320	< 337	< 198
04/14/10 – Striped Bass	< 3	< 3	< 2	< 3	4107 ± 251	< 418	< 245
04/14/10 – Sea Trout	< 8	< 9	< 8	< 9	6159 ± 477	< 391	< 229
04/16/10 – Black Drum	< 7	< 7	< 6	< 7	5128 ± 365	< 328	< 193
10/12/10 - Bluefish	< 17	< 16	< 16	< 18	3780 ± 565	< 802	< 603
10/12/10 – Striped Bass	< 20	< 15	< 17	< 17	3860 ± 542	< 627	< 561

ESE of Site, EAST of U.S. Route 9 Bridge at the OCNGS Discharge Canal (OCFS05)

Collection Date	<u>Co-58</u>	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>K-40</u>	<u>Sr-89</u>	<u>Sr-90</u>
04/15/10 - Striped Bass	< 4	< 5	< 4	< 4	5720 ± 352	< 444	< 257

Results in picoCuries per kilogram – WET (pCi/kg) +/- 2 Standard Deviations

Potassium-40 (K-40) is a naturally occurring radionuclide found in the environment.

Salem/Hope Creek Concentrations of Gamma Emitters and Strontium in Fish/Shellfish Samples

Onsite Surface	Water	Inlet Building	(AIFS01))
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Collection Date	<u>Co-58</u>	<u>Co-60</u>	Cs-134	Cs-137	<u>K-40</u>	<u>Sr-89</u>	<u>Sr-90</u>
07/15/10 - Crabs	< 14	< 16	< 12	< 11	2480 ± 325	< 281	< 135
07/21/10 - Fish **	< 15	< 15	< 10	< 13	2571 ± 345	< 236	< 117
10/18/10 - Fish ***	< 13	< 10	< 13	< 10	3450 ± 424	< 898	< 887
Delaware River – West Bank Upstream (AIFS02)							
Collection Date	<u>Co-58</u>	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>K-40</u>	<u>Sr-89</u>	<u>Sr-90</u>
07/15/10 - Crabs	< 16	< 22	< 12	< 12	2462 ± 370	< 277	< 131

06/22/10 – Fish **** < 16 < 16 < 10 < 12 2030 ± 303 < 383 < 125 10/19/10 - Fish **** < 12 < 8 < 10 < 10 3370 ± 393 < 972 < 869

Results in picoCuries per kilogram – WET (pCi/kg) +/- 2 Standard Deviations

Potassium-40 (K-40) is a naturally occurring radionuclide found in the environment.

^{**} Fish consist of various species including Striped Bass, Summer Flounder, Catfish and White Perch

^{***} Fish consist of various species including Striped Bass and Bluefish

^{****} Fish consist of various species including Bluefish and Catfish

^{*****} Fish consist of various species including Striped Bass, Channel Catfish, Bluefish, Brown Bullhead Catfish

Oyster Creek Concentrations of Gamma Emitters in Aquatic Sediment Samples

Barnegat Bay (OCA	<u>.Q01)</u>						
Collection Date	Be-7	<u>Co-58</u>	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	\mathbf{K} -40	
04/13/10	< 67	< 6	< 5	< 6	< 6	520 ± 114	
10/11/10	< 253	< 24	< 16	< 22	< 16	4990 ± 609	
Oyster Creek Discha	arge Canal (O	CAQ02)					
Collection Date	<u>Be-7</u>	<u>Co-58</u>	<u>Co-60</u>	Cs-134	<u>Cs-137</u>	$\mathbf{K-40}$	
04/13/10	< 101	< 10	< 8	< 8	< 9	4778 ± 459	
10/11/10	< 258	< 23	< 14	< 21	< 17	568 ± 222	
Great Bay / Little Egg Harbor (OCAQ03)							
Collection Date	Be-7	<u>Co-58</u>	<u>Co-60</u>	Cs-134	<u>Cs-137</u>	\mathbf{K} -40	
04/13/10	< 150	< 16	< 13	< 12	< 14	$135\overline{30} \pm 1285$	
10/12/10	< 320	< 30	< 22	< 25	< 17	15600 ± 1590	
Stouts Creek (OCA)	Q04)						
Collection Date	Be-7	<u>Co-58</u>	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	K-40	
04/13/10	< 85	< 8	< 7	< 7	< 7	939 ± 167	
10/11/10	< 291	< 27	< 19	< 25	< 20	4400 ± 539	

Results in picoCuries per kilogram – DRY (pCi/kg) +/- 2 Standard Deviations

Potassium-40 (K-40) and Beryillium-7 (Be-7) are naturally occurring radionuclides found in the environment.

Salem/Hope Creek Concentrations of Gamma Emitters in Aquatic Sediment Samples

Surface Water Inlet			G (0	C 124	C 125	T7 40		
Collection Date	<u>Be-7</u>	<u>Co-58</u>	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>K-40</u>		
11/22/10	< 167	< 17	< 18	< 26	< 17	5160 ± 627		
Onsite – Cooling Tower Blowdown Discharge Line (AIAQ03)								
Collection Date	<u>Be-7</u>	<u>Co-58</u>	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>K-40</u>		
11/22/10	< 154	< 17	< 16	< 20	< 16	3920 ± 456		
Onsite – South Storm Drain Discharge Line (AIAQ04)								
Collection Date	<u>Be-7</u>	<u>Co-58</u>	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>K-40</u>		
11/22/10	< 253	< 27	< 26	< 41	< 25	7000 ± 771		
West Bank of Delaware River – Upstream (AIAQ05)								
Collection Date	<u>Be-7</u>	<u>Co-58</u>	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>K-40</u>		
11/22/10	< 248	< 26	< 29	< 38	< 27	18600 ± 1920		

Results in picoCuries per kilogram – DRY (pCi/kg) +/- 2 Standard Deviations

Potassium-40 (K-40) and Beryillium-7 (Be-7) are naturally occurring radionuclides found in the environment.

<u>Note:</u> Results from samples collected in the spring are not available due to the shutdown of the BNE's Radiological Contract Lab without notification. These samples were not able to be recovered and the data was lost.

Oyster Creek Concentrations of Gamma Emitters in Vegetable Samples

Oyster Creek Onsite Garden (OCVE01)								
Sample	Collection	<u>Co-58</u>	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>K-40</u>		
	Date							
Cabbage	07/27/10	< 17	< 23	< 16	< 17	5711 ± 602		
Cabbage	08/23/10	< 44	< 43	< 35	< 40	2250 ± 554		
Collards	08/23/10	< 18	< 26	< 15	< 21	4768 ± 560		
Kale	08/23/10	< 21	< 22	< 16	< 19	3880 ± 538		
Cabbage	09/15/10	< 10	< 13	< 13	< 13	3610 ± 440		
Collards	09/15/10	< 12	< 15	< 15	< 13	4630 ± 508		
Kale	09/15/10	< 12	< 14	< 15	< 12	7320 ± 718		
Cabbage	10/25/10	< 8	< 9	< 10	< 8	5430 ± 530		
Collards	10/25/10	< 11	< 12	< 13	< 11	3900 ± 459		
Kale	10/25/10	< 12	< 12	< 13	< 11	5640 ± 590		
Private Farm – NW Sector (OCVE02)								
Sample	Collection	<u>Co-58</u>	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>K-40</u>		
	<u>Date</u>							
Cabbage	07/27/10	< 13	< 18	< 11	< 13	2886 ± 368		
Cabbage	08/23/10	< 19	< 24	< 16	< 21	3373 ± 494		
Kale	08/23/10	< 21	< 23	< 17	< 17	2763 ± 454		
Collards	08/23/10	< 35	< 39	< 30	< 32	4265 ± 2036		
Cabbage	09/15/10	< 8	< 8	< 11	< 9	2570 ± 304		
Collards	09/15/10	< 5	< 6	< 6	< 5	4640 ± 435		
Kale	09/15/10	< 6	< 7	< 7	< 9	3950 ± 387		
Cabbage	10/25/10	< 10	< 12	< 14	< 11	2560 ± 307		
Collards	10/25/10	< 9	< 10	< 11	< 8	4140 ± 423		
Kale	10/25/10	< 11	< 11	< 13	< 11	4980 ± 563		

Results in picoCuries per kilogram – WET (pCi/kg) +/- 2 Standard Deviations

Potassium-40 (K-40) is a naturally occurring radionuclide found in the environment.

Oyster Creek Concentrations of Gamma Emitters in Vegetable Samples

Oyster Creek Onsite Garden (OCVE03)

O JECT CICCII	Onoite Garaen	(CCTEUC)				
Sample	Collection	<u>Co-58</u>	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>K-40</u>
	Date					
Kale	07/27/10	< 23	< 26	< 18	< 22	3593 ± 508
Cabbage	08/23/10	< 25	< 29	< 21	< 26	3467 ± 561
Collards	08/23/10	< 26	< 41	< 24	< 23	3994 ± 626
Kale	08/23/10	< 24	< 36	< 21	< 28	2923 ± 512
Cabbage	09/15/10	< 12	< 14	< 13	< 14	2910 ± 379
Kale	09/15/10	< 12	< 14	< 15	< 13	4090 ± 476
Kale	10/25/10	< 11	< 13	< 14	< 11	4120 ± 455

Oyster Creek Onsite Garden (OCVE07)*

Oyster Creek	Olisite Gartieli	(OC VEO7)				
Sample	Collection	<u>Co-58</u>	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	\mathbf{K} -40
	Date					
Cabbage	07/27/10	< 22	< 34	< 21	< 23	6115 ± 747
Cabbage	08/23/10	< 24	< 24	< 19	< 22	3214 ± 501
Collards	08/23/10	< 26	< 31	< 25	< 34	1565 ± 809
Kale	08/23/10	< 26	< 32	< 26	< 30	1845 ± 489
Cabbage	09/15/10	< 10	< 13	< 14	< 12	3660 ± 403
Collards	09/15/10	< 8	< 11	< 11	< 9	7650 ± 746
Kale	09/15/10	< 11	< 12	< 14	< 11	6500 ± 624
Cabbage	10/25/10	< 8	< 9	< 9	< 7	2940 ± 343
Collards	10/25/10	< 7	< 8	< 9	< 8	5440 ± 522
Kale	10/25/10	< 11	< 11	< 13	< 11	4190 ± 443

Results in picoCuries per kilogram – WET (pCi/kg) +/- 2 Standard Deviations

Potassium-40 (K-40) is a naturally occurring radionuclide found in the environment.

^{*} This is a new sampling site located on Finninger Farm, approximately ¼ mile to the ENE of the plant. Therefore, there is no historical BNE data available for this site.

Salem/Hope Creek Concentrations of Gamma Emitters in Vegetable Samples

Private Farm	- NNE (AIVE04)					
Sample	Collection Date	<u>Co-58</u>	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>K-40</u>
Pepper	07/26/10	< 15	< 14	< 11	< 12	1500 ± 252
Private Farm	- NNE (AIVE07)					
Sample	Collection Date	<u>Co-58</u>	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>K-40</u>
Cabbage	07/22/10	< 16	< 11	< 15	< 14	1362 ± 277
Private Farm	- NE (AIVE11)					
Sample	Collection Date	<u>Co-58</u>	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>K-40</u>
Peppers	08/09/10	< 10	< 11	< 9	< 12	1425 ± 231
Corn	08/09/10	< 16	< 20	< 13	< 15	1265 ± 293

Results in picoCuries per kilogram – WET (pCi/kg) +/- 2 Standard Deviations

Potassium-40 (K-40) is a naturally occurring radionuclide found in the environment.

Note: Results from samples collected in April through October are not available due to the shutdown of the BNE's Radiological Contract Lab without notification. These samples were not able to be recovered and the data was lost.

BNE Background Location Concentrations of Gamma Emitters and Strontium in Milk Samples

State of New Jersey Dairy Farm (COMI01)

Collection Date	<u>Cs-137</u>	<u>I-131</u>	$\underline{\mathbf{K-40}}$	<u>Sr-89</u>	<u>Sr-90</u>
02/03/10	< 1.48	< 0.67	$17\overline{23} \pm 151$	< 0.60	< 0.56
10/04/10	< 3.29	< 0.83	1220 ± 130	< 0.65	< 0.72

Results in picoCuries per Liter (pCi/L) +/- 2 Standard Deviations

Potassium-40 (K-40) is a naturally occurring radionuclide found in the environment.

<u>Note:</u> Results from samples collected during the 2nd quarter of 2010 are not available due to the shutdown of the BNE's Radiological Contract Lab without notification. These samples were not able to be recovered and the data was lost. Results from samples collected during the 4th quarter of 2010 are not available. During these weeks the DEP contracted with two different labs under consecutive short term contracts. Sample shipments and analyses were halted pending approval of each contract.

Salem/Hope Creek Concentrations of Gamma Emitters and Strontium in Milk Samples

Private Farm – ENE (AI	(MI01)				
Collection Date	<u>Cs-137</u>	<u>I-131</u>	$\underline{\mathbf{K-40}}$	<u>Sr-89</u>	<u>Sr-90</u>
01/18/10	< 1.86	< 0.23	$14\overline{77 \pm 130}$	< 0.87	< 0.60
02/09/10	< 1.45	< 0.44	1610 ± 141	< 0.41	< 0.36
03/15/10	< 1.48	< 0.33	1467 ± 129	< 0.64	0.80 ± 0.38
04/05/10	< 1.47	< 0.21	1444 ± 127	< 0.64	< 0.54
07/19/10	< 3.85	< 0.62	926 ± 125	< 0.68	< 0.37
08/02/10	< 6.36	< 0.46	1113 ± 158	< 0.63	< 0.32
10/17/10	< 3.24	< 0.44	1440 ± 146	< 0.71	< 0.79
11/08/10	< 2.27	< 0.78	1180 ± 124	< 0.84	< 0.93
12/06/10	< 2.33	< 0.64	1500 ± 147	< 0.78	< 0.88

Private Farm – NE (AIMI02)								
Collection Date	Cs-137	<u>I-131</u>	K-40	<u>Sr-89</u>	<u>Sr-90</u>			
01/18/10	< 1.40	< 0.22	1513 ± 133	< 1.14 *	< 0.79			
02/09/10	< 1.78	< 0.50	1415 ± 128	< 0.33	< 0.29			
03/15/10	< 1.47	< 0.33	1533 ± 136	< 0.61	< 0.43			
04/05/10	< 1.79	< 0.26	1375 ± 124	< 0.66	< 0.56			
07/19/10	< 3.96	< 0.54	910 ± 117	< 0.72	< 0.36			
08/02/10	< 5.48	< 0.43	1203 ± 165	< 0.73	< 0.38			
10/17/10	< 2.22	< 0.48	1430 ± 142	< 0.86	< 0.79			
11/08/10	< 2.42	< 0.62	1090 ± 113	< 0.83	< 0.66			
12/06/10	< 3.13	< 0.69	1650 ± 167	< 0.84	< 0.88			

Results in picoCuries per Liter (pCi/L) +/- 2 Standard Deviations

Potassium-40 (K-40) is a naturally occurring radionuclide found in the environment

<u>Note:</u> Results from samples collected in May and June of 2010 are not available due to the shutdown of the BNE's Radiological Contract Lab without notification. These samples were not able to be recovered and the data was lost. Results from samples collected in September of 2010 are not available. During these weeks the DEP contracted with two different labs under consecutive short term contracts. Sample shipments and analyses were halted pending approval of each contract.

^{*} Sample result was in excess of the 1.0 pCi/L detection level due to low chemical yield. Low chemical yield is a result of the delay in time between sample collection and analysis along with Sr-89 decay for the same reason (51 days). There was insufficient chemical recovery to meet the MDC.

Salem/Hope Creek Concentrations of Gamma Emitters and Strontium in Milk Samples

Private Farm – WNW (AIMI03)

Collection Date	Cs-137	I-131	K-40	Sr-89	<u>Sr-90</u>
01/18/10	< 1.43	< 0.24	1579 ± 138	< 1.05 *	< 0.72
02/09/10	< 1.43	< 0.51	1506 ± 133	< 0.51	< 0.45
03/15/10	< 1.94	< 0.36	1576 ± 140	< 0.68	< 0.48
04/05/10	< 1.82	< 0.30	1572 ± 139	< 0.69	< 0.59
07/19/10	< 4.14	< 0.42	1143 ± 144	< 0.60	< 0.31
08/02/10	< 5.69	< 0.39	931 ± 136	< 0.61	< 0.34
10/17/10	< 2.55	< 0.47	1650 ± 158	< 0.95	< 0.82
11/08/10	< 2.87	< 0.89	1400 ± 141	< 0.88	< 0.65
12/06/10	< 2.74	< 0.78	1340 ± 147	< 0.85	< 0.92

Results in picoCuries per Liter (pCi/L) +/- 2 Standard Deviations

Potassium-40 (K-40) is a naturally occurring radionuclide found in the environment

<u>Note:</u> Results from samples collected in May and June of 2010 are not available due to the shutdown of the BNE's Radiological Contract Lab without notification. These samples were not able to be recovered and the data was lost. Results from samples collected in September of 2010 are not available. During these weeks the DEP contracted with two different labs under consecutive short term contracts. Sample shipments and analyses were halted pending approval of each contract.

^{*} Sample result was in excess of the 1.0 pCi/L detection level due to low chemical yield. Low chemical yield is a result of the delay in time between sample collection and analysis along with Sr-89 decay due to its short half-life (8.02 days) during the laboratory preparation and analysis.

Oyster Creek Concentrations of Gamma Emitters and Tritium (H-3) in Surface Water

Barnegat Bay (OCSW0)	<u>()</u>					
Collection Date	<u>Co-58</u>	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>H-3</u>	<u>I-131</u>
04/13/10	< 1.56	< 1.51	< 1.42	< 1.42	< 280	< 0.29
10/11/10	< 2.21	< 2.38	< 2.57	< 2.15	< 492	< 0.72
Great Bay / Little Egg H	Iarbor (OCS)	<u>W02)</u>				
Collection Date	<u>Co-58</u>	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>H-3</u>	<u>I-131</u>
01/28/10	< 1.25	< 1.25	< 1.13	< 1.24	< 280	< 0.84
02/23/10	< 1.65	< 1.49	< 1.47	< 1.62	< 278	< 0.68
04/01/10	< 1.76	< 1.72	< 1.51	< 1.61	< 280	< 0.58
04/28/10	< 1.64	< 1.46	< 1.44	< 1.55	< 275	< 0.68
07/01/10	< 3.79	< 3.30	< 2.70	< 2.78	< 207	< 0.45
07/29/10	< 6.07	< 5.07	< 4.68	< 5.53	< 459	< 0.72
08/26/10	< 0.60	< 6.61	< 4.04	< 6.13	< 497	No Data*
09/29/10	< 1.72	< 1.74	< 2.20	< 2.06	< 461	< 0.58
10/28/10	< 2.34	< 2.60	< 2.61	< 2.61	< 617	< 0.67
11/23/10	< 1.65	< 1.90	< 2.39	< 1.92	< 496	< 0.52
Stouts Creek (OCSW03	<u>)</u>					
Collection Date	<u>Co-58</u>	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>H-3</u>	<u>I-131</u>
04/13/10	< 1.19	< 1.22	< 1.17	< 1.25	< 275	< 0.28
10/11/10	< 2.02	< 2.17	< 2.47	< 2.21	< 481	< 0.58

Results in picoCuries per Liter (pCi/L) +/- 2 Standard Deviations

<u>Note:</u> Results from samples collected in May and June of 2010 are not available due to the shutdown of the BNE's Radiological Contract Lab without notification. These samples were not able to be recovered and the data was lost. Tritium (H-3) analyses in 2010 were performed by three labs under separate contracts requiring different minimum detectable concentrations (MDC). The required MDC for H-3 from January through July 2010 was 300 pCi/L. The required MDC the end of July through December 2010 was 1000 pCi/L. No surface water sample was collected in December 2010. Sample shipments and analyses were halted pending approval of a new short term lab contract.

^{*} Radiochemical Analysis for Iodine-131 was not performed on the sample since the time between sample collection and analysis was well beyond several half-lives. The half-life of iodine-131 is 8.02 days.

Oyster Creek Concentrations of Gamma Emitters and Tritium (H-3) in Surface Water

Oyster Creek Discharge Canal (OCSW04)

Collection Date	<u>Co-58</u>	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>H-3</u>	<u>I-131</u>
01/28/10	< 1.29	< 1.22	< 1.11	< 1.25	< 274	< 0.85
02/23/10	< 1.17	< 1.13	< 1.09	< 1.25	< 278	< 0.79
04/01/10	< 1.33	< 1.25	< 1.24	< 1.35	< 275	< 0.56
04/28/10	< 1.23	< 1.25	< 1.15	< 1.22	< 279	< 0.53
06/30/10	< 6.01	< 5.81	< 5.00	< 4.97	< 208	< 0.41
07/29/10	< 6.58	< 6.03	< 5.47	< 5.39	< 461	< 0.61
08/26/10	< 11.69	< 4.43	< 4.33	< 3.80	< 501	No Data*
09/29/10	< 2.13	< 2.58	< 2.63	< 2.37	< 461	< 0.51
10/28/10	< 2.01	< 2.19	< 2.76	< 2.38	< 480	< 0.65
11/03/10	< 1.82	< 2.23	< 2.48	< 2.17	< 500	< 0.54

Results in picoCuries per Liter (pCi/L) +/- 2 Standard Deviations

<u>Note:</u> Results from samples collected in May of 2010 are not available due to the shutdown of the BNE's Radiological Contract Lab without notification. These samples were not able to be recovered and the data was lost. Tritium (H-3) analyses in 2010 were performed by three labs under separate contracts requiring different minimum detectable concentrations (MDC). The required MDC for H-3 from January through July 2010 was 300 pCi/L. The required MDC the end of July through December 2010 was 1000 pCi/L. No surface water sample was collected in December 2010. Sample shipments and analyses were halted pending approval of a new short term lab contract.

^{*} Radiochemical Analysis for Iodine-131 was not performed on the sample since the time between sample collection and analysis was well beyond several half-lives. The half-life of iodine-131 is 8.02 days.

Salem/Hope Creek Concentrations of Gamma Emitters and Tritium (H-3) in Surface Water

Surface Water Inlet Building Discharge (AISW01)						
Collection Date	<u>Co-58</u>	<u>Co-60</u>	Cs-134	<u>Cs-137</u>	<u>H-3</u>	<u>I-131</u>
01/14/10	< 1.19	< 1.23	< 1.08	< 1.21	< 270	< 0.34
02/04/10	< 1.23	< 1.18	< 1.08	< 1.16	< 278	< 0.71
03/02/10	< 1.22	< 1.10	< 1.12	< 1.18	< 289	< 1.89 *
04/06/10	< 1.22	< 1.15	< 1.08	< 1.17	< 277	< 0.48
07/06/10	< 4.60	< 4.31	< 3.83	< 4.12	< 207	< 0.76
08/02/10	< 5.96	< 6.13	< 5.52	< 6.45	< 479	< 0.51
10/06/10	< 2.10	< 2.55	< 2.69	< 3.35	< 487	< 0.78
11/01/10	< 1.86	< 1.61	< 2.04	< 1.75	< 528	< 1.82 *

< 2.25

< 2.42

< 2.43

< 494

< 0.74

West Bank – Delaware l	River (AISW)	<u>02)</u>				
Collection Date	<u>Co-58</u>	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>H-3</u>	<u>I-131</u>
01/14/10	< 1.53	< 1.58	< 1.52	< 1.66	< 270	< 0.42
02/04/10	< 1.20	< 1.19	< 1.11	< 1.26	< 278	< 0.67
03/02/10	< 1.63	< 1.54	< 1.57	< 1.63	< 289	< 1.61 *
04/06/10	< 1.62	< 1.42	< 1.49	< 1.53	< 278	< 0.53
07/06/10	< 8.08	< 6.77	< 5.89	< 6.84	< 208	< 0.67
08/02/10	< 5.45	< 4.13	< 3.60	< 4.23	< 477	< 0.43
10/06/10	< 1.99	< 2.02	< 2.51	< 1.82	< 488	< 0.80
11/01/10	< 1.66	< 1.62	< 1.86	< 1.82	< 245	< 1.82 *
12/09/10	< 2.32	< 2.36	< 2.24	< 2.14	< 493	< 0.72

Results in picoCuries per Liter (pCi/L) +/- 2 Standard Deviations

< 2.14

12/09/10

Note: Results from samples collected in May and June of 2010 are not available due to the shutdown of the BNE's Radiological Contract Lab without notification. These samples were not able to be recovered and the data was lost. Results from samples collected in September and December of 2010 are not available. During these weeks the DEP contracted with two different labs under consecutive short term contracts. Sample shipments and analyses were halted pending approval of each contract. Tritium (H-3) analyses in 2010 were performed by three labs under separate contracts requiring different minimum detectable concentrations (MDC). The required MDC for H-3 from January through July 2010 was 300 pCi/L. The required MDC the end of July through December 2010 was 1000 pCi/L.

^{*} Sample result was in excess of the 1.0 pCi/L detection level due to low chemical yield. Low chemical yield is a result of the delay in time between sample collection and analysis along with iodine-131 decay due to its short half-life (8.02 days).

Oyster Creek Concentrations of Gamma Emitters and Tritium (H-3) in Potable Well Water

Oyster Creek Administ	ration Buildin					
Collection Date	<u>Co-58</u>	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>H-3</u>	<u>I-131</u>
02/02/10	< 1.15	< 1.18	< 1.07	< 1.18	< 277	< 0.53
08/24/10	< 11.59	< 4.08	< 3.97	< 3.55	< 533	No Data *
11/17/10	< 1.82	< 2.04	< 2.35	< 1.99	< 465	< 0.35

Forked River Marina (C	OCWW02)					
Collection Date	Co-58	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>H-3</u>	<u>I-131</u>
02/02/10	< 1.49	< 1.50	< 1.35	< 1.56	< 277	< 0.66
08/24/10	< 12.27	< 3.86	< 3.60	< 3.68	< 536	No Data *
11/17/10	< 2.20	< 2.38	< 2.89	< 2.47	< 461	< 0.37

Results in picoCuries per Liter (pCi/L) +/- 2 Standard Deviations

<u>Note:</u> Results from samples collected during the 2nd quarter of 2010 are not available due to the shutdown of the BNE's Radiological Contract Lab without notification. These samples were not able to be recovered and the data was lost. Tritium (H-3) analyses in 2010 were performed by three labs under separate contracts requiring different minimum detectable concentrations (MDC). The required MDC for H-3 from January through July 2010 was 300 pCi/L. The required MDC the end of July through December 2010 was 1000 pCi/L.

^{*} Radiochemical Analysis for Iodine-131 was not performed on the sample since the time between sample collection and analysis was well beyond several half-lives. The half-life of iodine-131 is 8.02 days.

Salem/Hope Creek Concentrations of Gamma Emitters and Tritium (H-3) in Potable Well Water

Elsinboro School (AIWW01)													
Collection Date	<u>Co-58</u>	<u>Co-60</u>	<u>Cs-134</u>	Cs-137	<u>H-3</u>	<u>I-131</u>								
02/04/10	< 1.24	< 1.18	< 1.14	< 1.29	< 281	< 0.56								
08/24/10	< 12.15	< 4.54	< 3.67	< 3.85	< 536	No Data*								
11/17/10	< 2.19	< 2.50	< 2.87	< 2.44	< 468	< 0.44								
Lower Alloways Creek Police Station (AIWW02)														
Collection Date	Co-58	<u>Co-60</u>	Cs-134	<u>Cs-137</u>	<u>H-3</u>	<u>I-131</u>								
02/04/10	< 1.67	< 1.70	< 1.78	< 1.72	< 273	< 0.44								
08/24/10	< 10.98	< 3.67	< 3.77	< 3.85	< 535	No Data*								
11/17/10	< 2.21	< 2.35	< 2.60	< 2.55	< 466	< 0.48								
Salem Administration Build	ing (AIWW03)												
Collection Date	<u>Co-58</u>	<u>Co-60</u>	Cs-134	Cs-137	<u>H-3</u>	<u>I-131</u>								
02/04/10	< 1.13	< 1.23	< 1.08	< 1.29	< 277	< 0.44								
08/24/10	< 16.74**	< 6.55	< 5.58	< 5.65	< 532	No Data*								
11/17/10	< 2.06	< 2.20	< 2.69	< 2.19	< 464	< 0.38								
Lower Alloways Creek School (AIWW04)														
Collection Date	Co-58	Co-60	Cs-134	Cs-137	H-3	I-131								
02/04/10	< 1.63	< 1.60	< 1.70	< 1.72	< 275	< 0.58								
08/24/10	< 12.05	< 3.74	< 3.74	< 3.76	< 532	No Data*								
11/17/10	< 2.07	< 2.41	< 2.85	< 2.55	< 459	< 0.46								

Results in picoCuries per Liter (pCi/L) +/- 2 Standard Deviations

<u>Note:</u> Results from samples collected during the 2nd quarter of 2010 are not available due to the shutdown of the BNE's Radiological Contract Lab without notification. These samples were not able to be recovered and the data was lost. Tritium (H-3) analyses in 2010 were performed by three labs under separate contracts requiring different minimum detectable concentrations (MDC). The required MDC for H-3 from January through July 2010 was 300 pCi/L. The required MDC the end of July through December 2010 was 1000 pCi/L.

^{*} Radiochemical Analysis for Iodine-131 was not performed on the sample since the time between sample collection and analysis was well beyond several half-lives. The half-life of iodine-131 is 8.02 days.

^{**} Sample result was in excess of the 15.0 pCi/L detection level due to radioactive decay of Co-58 over a 3 month period. The delay in the analysis was due to interruptions in contract laboratory services. During these weeks the DEP contracted with two different labs under consecutive short term contracts. Sample shipments and analyses were halted pending approval of each contract.

BNE Background Location Thermoluminescent Dosimetry Data Quarterly Results for 2010

		1st Quarter		2 nd Qu	<u>arter</u>	3rd Qu	<u>ıarter</u>	4 th Quarter		
Station	Location	Result	<u>%CV</u>	Result	<u>%CV</u>	Result	<u>%CV</u>	Result	<u>%CV</u>	
CO01	BNE Office, Arctic Parkway, Ewing, NJ	11.9	1.8	14.1	0.3	14.4	0.6	13.2	32.8	
CO02	Brendan T. Byrne State Forest, New Lisbon, NJ	9.3	2.3	11.1	1.5	10.7	3.7	11.5	2.6	

Results are reported in units of milliroentgens (mR)

CV is the coefficient of variation; the ratio of the standard deviation to the mean, and is normally reported as a percentage

All exposures were normalized to 91 days (a standard quarter)

Oyster Creek Thermoluminescent Dosimetry Data Quarterly Results for 2010

		1 st Qu	<u>arter</u>	2 nd Qu	<u>arter</u>	3 rd Qu	<u>iarter</u>	4 th Quarter		
Station	Location	Result	<u>%CV</u>	Result	<u>%CV</u>	Result	<u>%CV</u>	Result	<u>%CV</u>	
1	Ocean County Vocational School	8.1	5.7	9.5	3.4	9.5	4.8	10.1	3.9	
2	Ocean Twp. Municipal Building	9.6	2.2	10.0	5.5	10.0	2.9	11.0	2.6	
3	Sewage Pumping Station, Forked River	10.2	4.5	10.8	0.9	11.0	3.1	11.8	2.1	
4	Twin River Station, Forked River	8.7	1.9	9.5	3.8	9.5	1.3	10.6	3.4	
5	Sewage Pumping Station, Ocean Twp.	9.4	3.7	10.2	3.0	10.2	3.1	11.5	3.3	
6	Oyster Creek, Gate #2, Forked River	9.7	2.8	10.8	4.4	10.7	2.2	11.9	5.0	
7	Finninger Farm, Forked River	8.3	1.6	9.1	4.1	8.9	1.5	10.1	2.9	
8	Ocean Co. Memorial Cemetery, Waretown	9.1	1.3	9.2	2.0	9.2	3.5	10.1	4.1	
9	Oyster Creek Building 17, Forked River	9.5	1.3	10.7	3.2	10.6	5.0	11.7	2.4	
10	Sheffield & Derby Rd, Forked River	8.8	2.5	10.0	4.8	10.0	1.9	10.9	3.1	
11	Lakeside Drive, Forked River	9.0	5.3	10.2	3.6	10.1	3.3	11.1	1.6	
12	Forked River Game Farm, Forked River	9.7	2.6	10.1	1.6	10.2	2.6	11.4	2.0	

Results are reported in units of milliroentgens (mR)

CV is the coefficient of variation; the ratio of the standard deviation to the mean, and is normally reported as a percentage.

All exposures were normalized to 91 days (a standard quarter)

Oyster Creek Thermoluminescent Dosimetry Data Quarterly Results for 2010

		1 st Quarter		2 nd Qu	<u>arter</u>	3 rd Qu	<u>iarter</u>	4 th Quarter		
Station	Location	Result	<u>%CV</u>	Result	<u>%CV</u>	Result	<u>%CV</u>	Result	<u>%CV</u>	
13	Restrooms, Lakeside Dr., Forked River	8.8	2.3	9.8	3.2	9.7	1.1	10.9	2.5	
14	Sands Pt. Park, Dock Ave., Waretown	9.7	3.7	11.3	2.9	10.9	2.2	12.0	3.4	
15	Recreation Center, Waretown	8.6	2.0	9.6	2.9	9.4	2.3	10.8	1.5	
16	North Access Rd., Forked River	9.6	6.4	10.9	5.1	11.1	2.9	11.4	2.9	
20	Third Avenue, Barnegat Light	8.1	2.4	8.6	9.9	9.0	1.3	10.0	1.4	
21	Rose Hill Road & Barnegat Blvd	9.1	2.0	10.0	4.3	10.2	3.9	11.1	3.0	
22	Bay Way & Claimore Avenue	9.1	0.8	*	*	10.2	0.6	11.2	2.6	
23	Island Beach State Park, Parking Lot A5	8.0	3.5	8.7	1.8	9.0	2.4	10.2	3.6	

Results are reported in units of milliroentgens (mR).

CV is the coefficient of variation; the ratio of the standard deviation to the mean, and is normally reported as a percentage.

All exposures were normalized to 91 days (a standard quarter).

^{*} TLD badges missing from site

Salem/Hope Creek Thermoluminescent Dosimetry Data Quarterly Results for 2010

		1st Quarter		2 nd Qu	<u>arter</u>	3 rd Qu	<u>arter</u>	4 th Quarter		
Station	Location	Result	<u>%CV</u>	Result	<u>%CV</u>	Result	<u>%CV</u>	Result	<u>%CV</u>	
1	Access Road – Security Checkpoint	9.9	3.1	11.6	2.9	11.9	2.5	13.2	4.2	
2	Poplar Road, Lower Alloways	10.2	1.8	12.4	2.5	12.4	2.5	13.8	2.0	
3	Money and Eagle Island Road	10.9	3.0	13.2	2.8	13.3	2.9	14.6	1.9	
4	Ft. Elfsborg / Hancocks – East	11.4	1.4	14.1	5.1	13.9	1.8	15.6	3.8	
5	Ft. Elfsborg / Hancocks – West	14.6	3.3	18.4	3.8	18.1	1.8	20.0	1.9	
6	Stathems Neck Road	10.2	2.5	11.8	1.1	11.9	1.4	13.3	1.5	
7	Stow Neck Road Lower Alloways	9.0	2.1	10.5	6.0	10.4	2.6	11.8	4.4	
8	Alloways Creek Neck Road - Middle	9.1	4.1	10.3	3.1	10.4	2.7	11.3	0.6	
9	Alloways Creek Neck Road - North	12.9	21.5	14.4	10.4	13.7	1.8	15.2	5.0	
10	Abbotts Farm Road	8.8	5.6	10.8	1.6	10.2	3.5	12.0	11.6	
11	PSEG Education Center/EOF	10.2	2.9	11.8	2.2	12.1	2.8	13.2	2.9	

Results are reported in units of milliroentgens (mR)

CV is the coefficient of variation; the ratio of the standard deviation to the mean, and is normally reported as a percentage.

All exposures were normalized to 91 days (a standard quarter).

Comparison of NJDEP and Global Dosimetry Solutions Thermoluminescent Dosimetry Data for Oyster Creek

Quarterly Results for Co-located Dosimeters for 2010

		1 st Quarter			2 nd Quarter			3 rd Quarter				4 th Quarter					
		NJE	<u>)EP</u>	Glo	<u>bal</u>	NJI	<u>DEP</u>	Glo	<u>bal</u>	NJD	<u>EP</u>	Glo	<u>obal</u>	NJI	<u>DEP</u>	Glo	<u>obal</u>
Station	Location	Result	<u>%CV</u>	Result	<u>%CV</u>	Result	<u>%CV</u>	Result	<u>%CV</u>	Result	<u>%CV</u>	Result	<u>%CV</u>	Result	<u>%CV</u>	Result	<u>%CV</u>
5	Sewage Pump. Station, Ocean Township	9.4	3.7	7.9	4.1	10.2	3.0	6.5	3.5	10.2	3.1	10.1	6.5	11.5	3.3	7.7	7.9
7	Finninger Farm,OCNGS Forked River	8.3	1.6	6.4	0.0	9.1	4.1	5.5	7.0	8.9	1.5	8.2	3.9	10.1	2.9	6.2	7.1
13	Restrooms, Lakeside Dr. Forked River	8.8	2.3	7.4	4.9	9.8	3.2	6.7	0.0	9.7	1.1	9.1	6.9	10.9	2.5	7.2	3.2
21	Rose Hill and Barnegat Rd Barnegat Twp.	9.1	2.0	7.4	4.9	10.0	4.3	6.5	3.5	10.2	3.9	9.2	3.6	11.1	3.0	7.4	0.0

Results are reported in units of milliroentgens (mR)

CV is the coefficient of variation; the ratio of the standard deviation to the mean, and is normally reported as a percentage All exposures were normalized to 91 days (a standard quarter)

Comparison of NJDEP and Global Dosimetry Solutions Thermoluminescent Dosimetry Data for Salem/Hope Creek Ouarterly Results for Co-located Dosimeters for 2010

2nd Quarter 3rd Quarter 4th Quarter 1st Quarter **NJDEP** Global NJDEP Global **NJDEP** Global NJDEP Global Result %CV Station Location Access Road Security 9.9 3.1 9.6 5.0 11.6 2.9 8.1 4.1 11.9 2.5 10.2 5.3 13.2 4.2 8.9 5.8 1 Checkpoint Poplar Road, 2 Lower 10.2 1.8 9.4 0.0 12.4 2.5 8.0 3.9 12.4 2.5 11.2 5.0 13.8 2.0 10.2 2.6 Alloways Money and Eagle Island 9.8 3 10.9 3.0 3.4 9.9 13.2 2.8 2.7 13.3 2.9 11.7 4.5 14.6 1.9 10.2 6.2 Roads Ft. Elfsborg/ 5 Hancocks -3.3 2.7 18.4 2.7 18.1 14.6 13.8 3.8 14.0 1.8 3.8 20.0 1.9 17.6 20.4 16.6 West

Results are reported in units of milliroentgens (mR)

CV is the coefficient of variation; the ratio of the standard deviation to the mean, and is normally reported as a percentage All exposures were normalized to 91 days (a standard quarter)

Comparison of NJDEP and Global Dosimetry Solutions Thermoluminescent Dosimetry Data for Salem/Hope Creek Ouarterly Results for Co-located Dosimeters for 2010

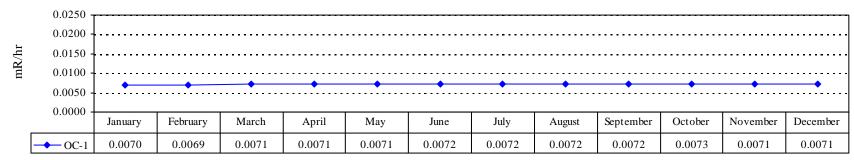
2nd Quarter 3rd Quarter 4th Quarter 1st Quarter **NJDEP** Global **NJDEP** Global NJDEP Global NJDEP Global Result %CV Station Location Stow Neck 7 Road-Lower 9.0 2.1 8.8 3.6 10.5 6.0 7.2 4.4 10.4 2.6 9.6 9.3 11.8 4.4 7.9 6.2 Alloways Alloways Creek Neck 12.9 21.5 10.4 4.0 14.4 10.4 9.9 8.6 13.7 1.8 12.2 8.7 15.2 5.0 10.6 6.1 Road -North PSEG Ed. Center/EOF 10.2 2.9 9.3 5.1 11.8 3.8 10.9 11 2.2 8.4 12.1 2.8 5.6 13.2 2.9 9.2 5.1 Salem City

Results are reported in units of milliroentgens (mR)

CV is the coefficient of variation; the ratio of the standard deviation to the mean, and is normally reported as a percentage All exposures were normalized to 91 days (a standard quarter)

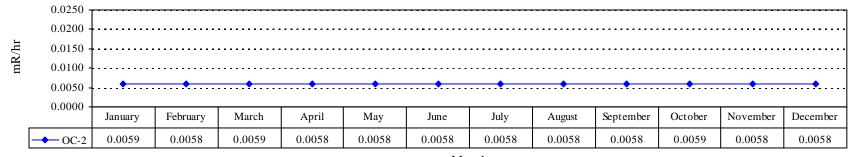
Oyster Creek - Continuous Radiological Environmental Surveillance Telemetry (CREST) Data

OC 1
2010 Ambient Radiation Levels



Month

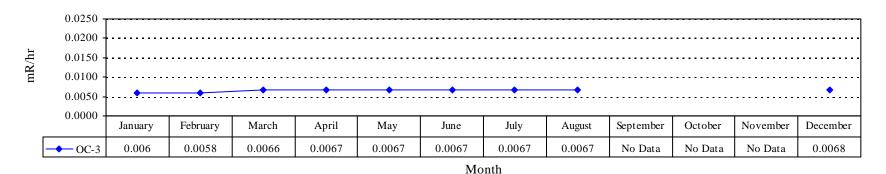
OC 2 2010 Ambient Radiation Levels



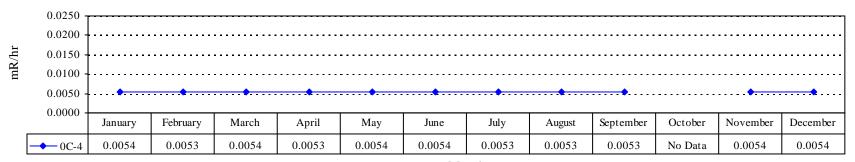
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Oyster Creek - Continuous Radiological Environmental Surveillance Telemetry (CREST) Data

OC 3
2010 Ambient Radiation Levels



OC 4
2010 Ambient Radiation Levels

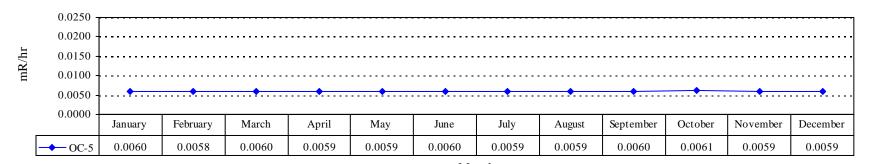


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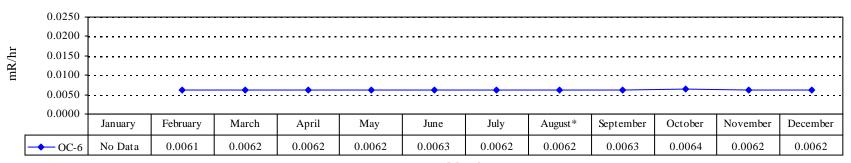
Month

Oyster Creek - Continuous Radiological Environmental Surveillance Telemetry (CREST) Data

OC 5
2010 Ambient Radiation Levels



OC 6 Month
2010 Ambient Radiation Levels

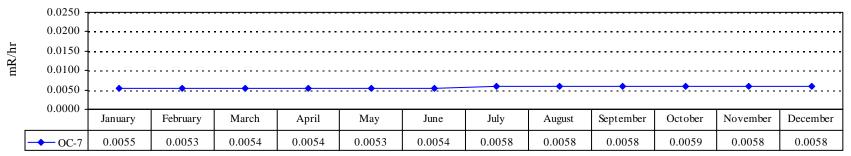


Month

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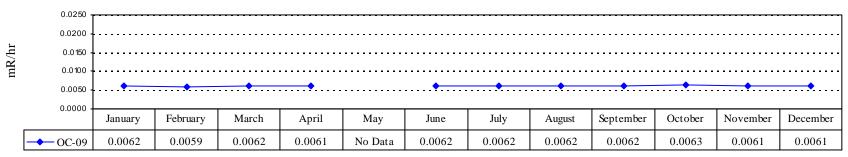
Oyster Creek - Continuous Radiological Environmental Surveillance Telemetry (CREST) Data

OC 7
2010 Ambient Radiation Levels



Month

OC 9
2010 Ambient Radiation Levels

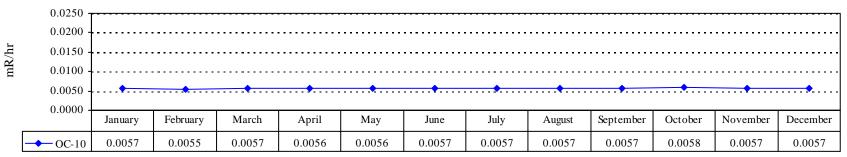


Month

Blank months indicate "No Data Available". OC-8 was not operational in 2010; therefore no data graph is available

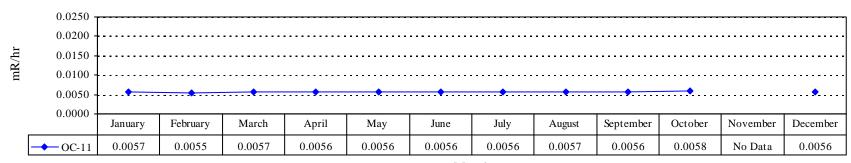
Oyster Creek - Continuous Radiological Environmental Surveillance Telemetry (CREST) Data

OC 10 2010 Ambient Radiation Levels



Month

OC 11 2010 Ambient Radiation Levels

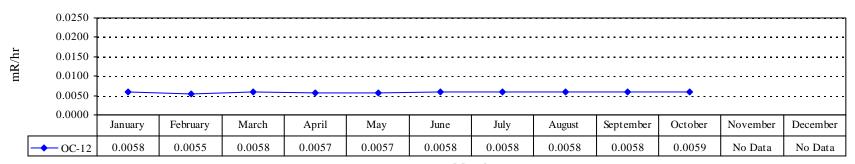


Month

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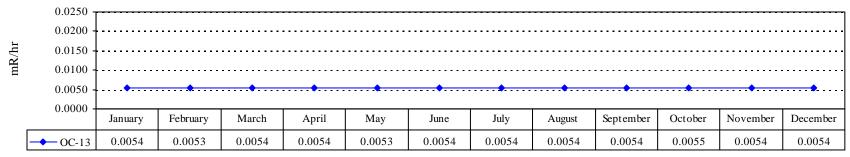
Oyster Creek - Continuous Radiological Environmental Surveillance Telemetry (CREST) Data

OC 12
2010 Ambient Radiation Levels



Month

OC 13
2010 Ambient Radiation Levels

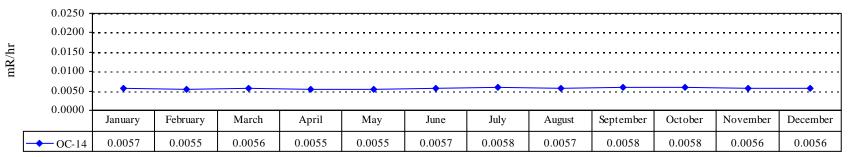


Month

Blank months indicate "No Data Available"

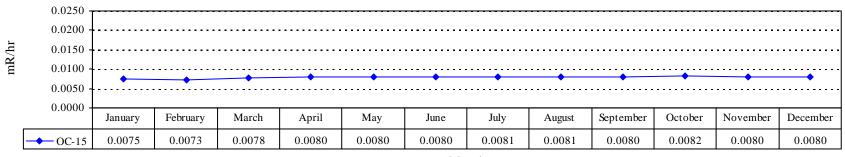
Oyster Creek - Continuous Radiological Environmental Surveillance Telemetry (CREST) Data

OC 14
2010 Ambient Radiation Levels



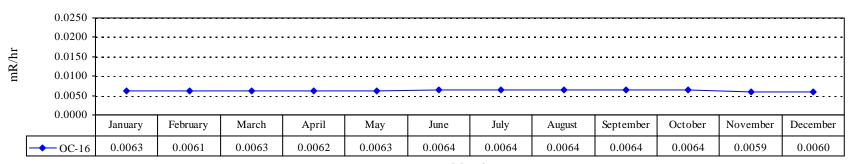
Month

OC 15
2010 Ambient Radiation Levels



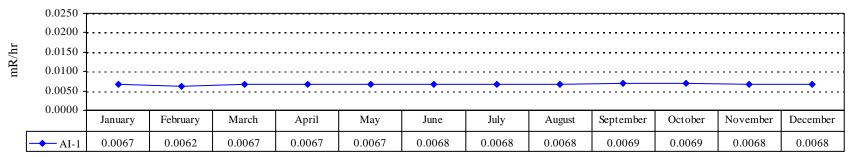
Oyster Creek - Continuous Radiological Environmental Surveillance Telemetry (CREST) Data

OC 16
2010 Ambient Radiation Levels



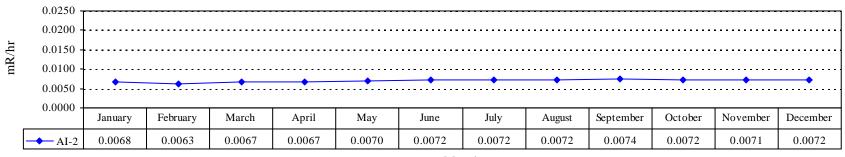
Salem/Hope Creek - Continuous Radiological Environmental Surveillance Telemetry (CREST) Data

AI 1 2010 Ambient Radiation Levels



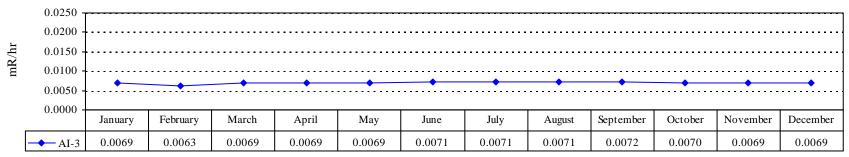
Month

AI 2 2010Ambient Radiation Levels



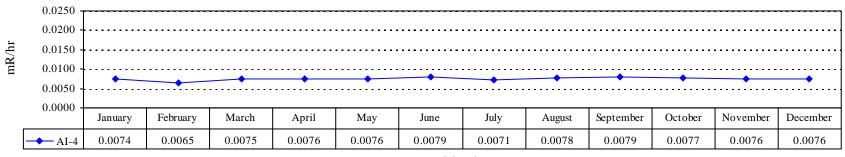
Salem/Hope Creek - Continuous Radiological Environmental Surveillance Telemetry (CREST) Data

AI 3
2010 Ambient Radiation Levels



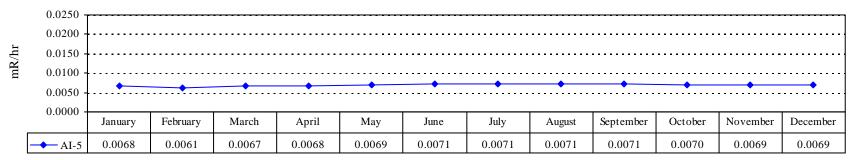
Month

AI 4
2010 Ambient Radiation Levels



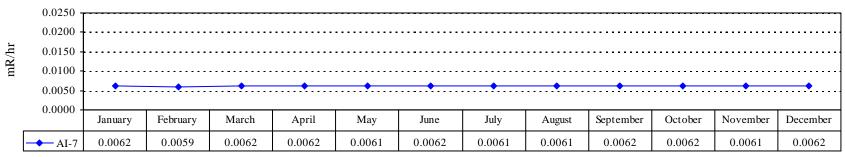
Salem/Hope Creek – Continuous Radiological Environmental Surveillance Telemetry (CREST) Data AI 5

2010 Ambient Radiation Levels



Month

AI 7
2010 Ambient Radiation Levels

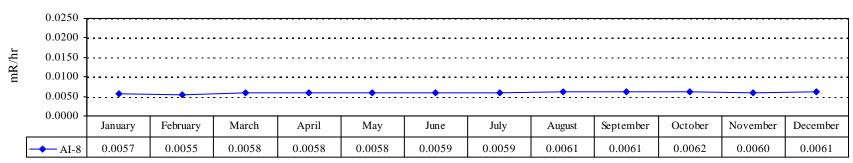


Month

AI-6 was not operational in 2010; therefore no data graph is available

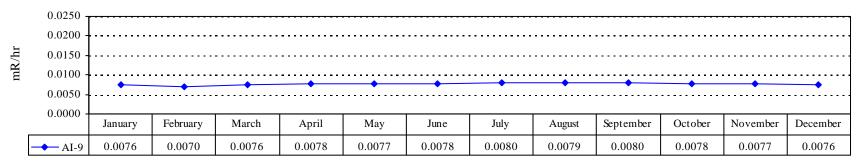
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Salem/Hope Creek – Continuous Radiological Environmental Surveillance Telemetry (CREST) Data AI 8 2010 Ambient Radiation Levels



Month

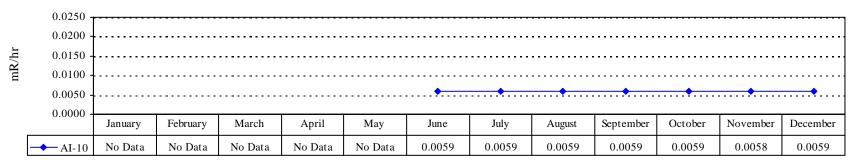
AI 9
2010 Ambient Radiation Levels



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Salem/Hope Creek - Continuous Radiological Environmental Surveillance Telemetry (CREST) Data

AI 10 2010 Ambient Radiation Levels



Month

Blank months indicate "No Data Available"