New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2014 Radiological Environmental Monitoring Program

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

BNE Office (COAI01)

Collection Period			I-131 (pCi/m^3)
01/07/14	-	01/21/14	< 0.014
01/21/14	-	02/04/14	< 0.022
02/04/14	-	02/18/14	< 0.007
02/18/14	-	03/04/14	< 0.009
03/04/14	-	03/18/14	< 0.010
03/18/14	-	04/01/14	< 0.012
04/01/14	-	04/14/14	< 0.022
04/14/14	-	04/28/14	< 0.010
04/28/14	-	05/12/14	< 0.003
05/12/14	-	05/27/14	< 0.010
05/27/14	-	06/10/14	< 0.012
06/10/14	-	06/24/14	< 0.005
06/24/14	-	07/08/14	< 0.012
07/08/14	-	07/22/14	< 0.013
07/22/14	-	08/05/14	< 0.011
08/05/14	-	08/19/14	< 0.011
08/19/14	-	09/02/14	< 0.013
09/02/14	-	09/16/14	< 0.008
09/16/14	-	09/30/14	< 0.027
09/30/14	-	10/14/14	< 0.007
10/14/14	-	10/28/14	< 0.019
10/28/14	-	11/10/14	< 0.011
11/10/14	-	11/24/14	< 0.010
11/24/14	-	12/08/14	< 0.008
12/08/14	-	12/22/14	< 0.011
12/22/14	-	01/06/15	< 0.007

Results in picoCuries per cubic meter (pCi/m^3)

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2014 Radiological Environmental Monitoring Program

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

Brendan T. Byrne State Forest (COAI02)

Collection Period			I-131 (pCi/m^3)
01/07/14	-	01/21/14	< 0.008
01/21/14	-	02/04/14	< 0.020
02/04/14	-	02/18/14	< 0.007
02/18/14	-	03/04/14	< 0.010
03/04/14	-	03/18/14	< 0.005
03/18/14	-	04/01/14	< 0.003
04/01/14	-	04/14/14	< 0.012
04/14/14	-	04/28/14	< 0.008
04/28/14	-	05/12/14	< 0.009
05/12/14	-	05/27/14	< 0.003
05/27/14	-	06/10/14	< 0.014
06/10/14	-	06/24/14	< 0.006
06/24/14	-	07/08/14	< 0.011
07/08/14	-	07/22/14	< 0.004
07/22/14	-	08/05/14	< 0.016
08/05/14	-	08/19/14	< 0.018
08/19/14	-	09/02/14	< 0.010
09/02/14	-	09/16/14	< 0.009
09/16/14	-	09/30/14	< 0.011
09/30/14	-	10/14/14	< 0.005
10/14/14	-	10/28/14	< 0.012
10/28/14	-	11/10/14	< 0.006
11/10/14	-	11/24/14	< 0.011
11/24/14	-	12/08/14	< 0.009
12/08/14	-	12/22/14	< 0.008
12/22/14	-	01/06/15	< 0.005

Results in picoCuries per cubic meter (pCi/m^3)

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2014 Radiological Environmental Monitoring Program

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

Waretown Municipal Building (OCAI01)

Collection Period			I-131 (pCi/m^3)
01/07/14	-	01/21/14	< 0.014
01/21/14	-	02/04/14	< 0.016
02/04/14	-	02/18/14	< 0.008
02/18/14	-	03/04/14	< 0.012
03/04/14	-	03/18/14	< 0.011
03/18/14	-	04/01/14	< 0.009
04/01/14	-	04/14/14	< 0.010
04/14/14	-	04/28/14	< 0.012
04/28/14	-	05/12/14	< 0.016
05/12/14	-	05/27/14	< 0.009
05/27/14	-	06/10/14	< 0.011
06/10/14	-	06/24/14	< 0.007
06/24/14	-	07/08/14	< 0.007
07/08/14	-	07/22/14	< 0.015
07/22/14	-	08/05/14	< 0.008
08/05/14	-	08/19/14	< 0.018
08/19/14	-	09/02/14	< 0.008
09/02/14	-	09/16/14	< 0.005
09/16/14	-	09/30/14	< 0.007
09/30/14	-	10/14/14	< 0.007
10/14/14	-	10/28/14	< 0.010
10/28/14	-	11/10/14	< 0.024
11/10/14	-	11/24/14	< 0.009
11/24/14	-	12/08/14	< 0.013
12/08/14	-	12/22/14	< 0.010
12/22/14	-	01/06/15	< 0.009

Results in picoCuries per cubic meter (pCi/m^3)

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2014 Radiological Environmental Monitoring Program

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

Sands Point Harbor (OCAI02)

Collection Period			I-131 (pCi/m^3)
01/07/14	-	01/21/14	< 0.015
01/21/14	-	02/04/14	< 0.014
02/04/14	-	02/18/14	< 0.011
02/18/14	-	03/04/14	< 0.020
03/04/14	-	03/18/14	< 0.011
03/18/14	-	04/01/14	< 0.006
04/01/14	-	04/14/14	< 0.012
04/14/14	-	04/28/14	< 0.014
04/28/14	-	05/12/14	< 0.033
05/12/14	-	05/27/14	< 0.024
05/27/14	-	06/10/14	< 0.018
06/10/14	-	06/24/14	< 0.006
06/24/14	-	07/08/14	< 0.009
07/08/14	-	07/22/14	< 0.012
07/22/14	-	08/05/14	< 0.017
08/05/14	-	08/19/14	< 0.009
08/19/14	-	09/02/14	< 0.010
09/02/14	-	09/16/14	< 0.009
09/16/14	-	09/30/14	< 0.014
09/30/14	-	10/14/14	< 0.006
10/14/14	-	10/28/14	< 0.016
10/28/14	-	11/10/14	< 0.014
11/10/14	-	11/24/14	< 0.008
11/24/14	-	12/08/14	< 0.008
12/08/14	-	12/22/14	< 0.013
12/22/14	-	01/06/15	< 0.007

Results in picoCuries per cubic meter (pCi/m^3)

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2014 Radiological Environmental Monitoring Program

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

Forked River Marina (OCAI03)

Collection Period			I-131 (pCi/m^3)
01/07/14	-	01/21/14	< 0.025
01/21/14	-	02/04/14	< 0.016
02/04/14	-	02/18/14	< 0.012
02/18/14	-	03/04/14	< 0.016
03/04/14	-	03/18/14	< 0.012
03/18/14	-	04/01/14	< 0.014
04/01/14	-	04/14/14	< 0.009
04/14/14	-	04/28/14	< 0.014
04/28/14	-	05/12/14	< 0.017
05/12/14	-	05/27/14	< 0.006
05/27/14	-	06/10/14	< 0.016
06/10/14	-	06/24/14	< 0.007
06/24/14	-	07/08/14	< 0.008
07/08/14	-	07/22/14	< 0.008
07/22/14	-	08/05/14	< 0.015
08/05/14	-	08/19/14	< 0.015
08/19/14	-	09/02/14	< 0.008
09/02/14	-	09/16/14	< 0.004
09/16/14	-	09/30/14	< 0.016
09/30/14	-	10/14/14	< 0.007
10/14/14	-	10/28/14	< 0.007
10/28/14	-	11/10/14	< 0.011
11/10/14	-	11/24/14	< 0.008
11/24/14	-	12/08/14	< 0.012
12/08/14	-	12/22/14	< 0.009
12/22/14	-	01/06/15	< 0.006

Results in picoCuries per cubic meter (pCi/m^3)

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2014 Radiological Environmental Monitoring Program

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

Lacey Township Recreation Building (OCAI04)

Collection Period			I-131 (pCi/m^3)
01/07/14	-	01/21/14	< 0.012
01/21/14	-	02/04/14	< 0.020
02/04/14	-	02/18/14	< 0.009
02/18/14	-	03/04/14	< 0.027
03/04/14	-	03/18/14	< 0.013
03/18/14	-	04/01/14	< 0.011
04/01/14	-	04/14/14	< 0.007
04/14/14	-	04/28/14	< 0.016
04/28/14	-	05/12/14	< 0.010
05/12/14	-	05/27/14	< 0.011
05/27/14	-	06/10/14	< 0.014
06/10/14	-	06/24/14	< 0.009
06/24/14	-	07/08/14	< 0.008
07/08/14	-	07/22/14	< 0.011
07/22/14	-	08/05/14	< 0.008
08/05/14	-	08/19/14	< 0.008
08/19/14	-	09/02/14	< 0.012
09/02/14	-	09/16/14	< 0.016
09/16/14	-	09/30/14	< 0.011
09/30/14	-	10/14/14	< 0.008
10/14/14	-	10/28/14	< 0.007
10/28/14	-	11/10/14	< 0.016
11/10/14	-	11/24/14	< 0.014
11/24/14	-	12/08/14	< 0.009
12/08/14	-	12/22/14	< 0.011
12/22/14	-	01/06/15	< 0.006

Results in picoCuries per cubic meter (pCi/m^3)

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2014 Radiological Environmental Monitoring Program

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

JCP&L Substation (OCAI05)

Collection Period			I-131 (pCi/m^3)
01/07/14	-	01/21/14	< 0.016
01/21/14	-	02/04/14	< 0.017
02/04/14	-	02/18/14	< 0.007
02/18/14	-	03/04/14	< 0.019
03/04/14	-	03/18/14	< 0.011
03/18/14	-	04/01/14	< 0.006
04/01/14	-	04/14/14	< 0.005
04/14/14	-	04/28/14	< 0.007
04/28/14	-	05/12/14	< 0.009
05/12/14	-	05/27/14	< 0.013
05/27/14	-	06/10/14	< 0.014
06/10/14	-	06/24/14	< 0.007
06/24/14	-	07/08/14	< 0.003
07/08/14	-	07/22/14	< 0.009
07/22/14	-	08/05/14	< 0.008
08/05/14	-	08/19/14	< 0.017
08/19/14	-	09/02/14	< 0.017
09/02/14	-	09/16/14	< 0.012
09/16/14	-	09/30/14	< 0.014
09/30/14	-	10/14/14	< 0.006
10/14/14	-	10/28/14	< 0.015
10/28/14	-	11/10/14	< 0.013
11/10/14	-	11/24/14	< 0.011
11/24/14	-	12/08/14	< 0.014
12/08/14	-	12/22/14	< 0.011
12/22/14	-	01/06/15	< 0.005

Results in picoCuries per cubic meter (pCi/m^3)

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2014 Radiological Environmental Monitoring Program

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

Finninger Farm, OC Dredge Site (OCAI06)

Collection Period			I-131 (pCi/m^3)
01/02/14	-	01/08/14	< 0.030
01/08/14	-	01/15/14	< 0.019
01/15/14	-	01/23/14	< 0.025
01/23/14	-	01/29/14	< 0.041
01/29/14	-	02/06/14	< 0.037
02/06/14	-	02/12/14	< 0.042
02/12/14	-	02/19/14	< 0.019
02/19/14	-	02/27/14	< 0.032
02/27/14	-	03/05/14	< 0.034
03/05/14	-	03/12/14	< 0.037
03/12/14	-	03/19/14	No Data**
03/19/14	-	03/26/14	< 0.046
03/26/14	-	04/02/14	< 0.026
04/02/14	-	04/09/14	< 0.028
04/09/14	-	04/16/14	< 0.044
04/16/14	-	04/23/14	< 0.028
04/23/14	-	05/01/14	< 0.026
05/01/14	-	05/07/14	< 0.041
05/07/14	-	05/14/14	< 0.054
05/14/14	-	05/21/14	< 0.048
05/21/14	-	05/28/14	< 0.036
05/28/14	-	06/04/14	< 0.042
06/04/14	-	06/11/14	< 0.065
06/11/14	-	06/18/14	< 0.039
06/18/14	-	06/25/14	< 0.018
06/25/14	-	07/02/14	< 0.050

Results in picoCuries per cubic meter (pCi/m^3)

* Air Iodine samples are collected by the licensee on a weekly basis
** "No Data" indicates no sample results due to maintenance issues with equipment

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2014 Radiological Environmental Monitoring Program

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

Finninger Farm, OC Dredge Site (OCAI06) - *continued*

Collection Period			I-131 (pCi/m^3)
07/02/14	-	07/09/14	< 0.058
07/09/14	-	07/16/14	< 0.034
07/16/14	-	07/23/14	< 0.022
07/23/14	-	07/30/14	< 0.049
07/30/14	-	08/06/14	< 0.060
08/06/14	-	08/13/14	< 0.037
08/13/14	-	08/20/14	< 0.047
08/20/14	-	08/27/14	< 0.059
08/27/14	-	09/03/14	< 0.041
09/03/14	-	09/10/14	< 0.055
09/10/14	-	09/17/14	< 0.034
09/17/14	-	09/24/14	< 0.035
09/24/14	-	10/01/14	< 0.049
10/01/14	-	10/08/14	< 0.029
10/08/14	-	10/14/14	< 0.033
10/14/14	-	10/22/14	< 0.036
10/22/14	-	10/29/14	< 0.026
10/29/14	-	11/05/14	< 0.036
11/05/14	-	11/12/14	< 0.029
11/12/14	-	11/19/14	< 0.025
11/19/14	-	11/25/14	< 0.044
11/25/14	-	12/03/14	< 0.018
12/03/14	-	12/10/14	< 0.042
12/10/14	-	12/17/14	< 0.055
12/17/14	-	12/23/14	< 0.031
12/23/14	-	12/30/14	< 0.021
12/30/14	-	01/07/15	< 0.051

Results in picoCuries per cubic meter (pCi/m^3)

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

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2014 Radiological Environmental Monitoring Program

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

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

Collection Period			I-131 (pCi/m^3)
01/07/14	-	01/21/14	< 0.012
01/21/14	-	02/04/14	< 0.021
02/04/14	-	02/18/14	< 0.008
02/18/14	-	03/04/14	< 0.014
03/04/14	-	03/18/14	< 0.007
03/18/14	-	04/01/14	< 0.010
04/01/14	-	04/14/14	< 0.008
04/14/14	-	04/28/14	< 0.017
04/28/14	-	05/12/14	< 0.012
05/12/14	-	05/27/14	< 0.011
05/27/14	-	06/10/14	< 0.016
06/10/14	-	06/24/14	< 0.006
06/24/14	-	07/08/14	< 0.008
07/08/14	-	07/22/14	< 0.004
07/22/14	-	08/05/14	< 0.010
08/05/14	-	08/19/14	< 0.012
08/19/14	-	09/02/14	< 0.008
09/02/14	-	09/16/14	< 0.011
09/16/14	-	09/30/14	< 0.010
09/30/14	-	10/14/14	< 0.006
10/14/14	-	10/28/14	< 0.013
10/28/14	-	11/10/14	< 0.012
11/10/14	-	11/24/14	< 0.009
11/24/14	-	12/08/14	< 0.008
12/08/14	-	12/22/14	< 0.016
12/22/14	-	01/06/15	< 0.006

Results in picoCuries per cubic meter (pCi/m^3)

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2014 Radiological Environmental Monitoring Program

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

Fort Elfsborg Road (AIAI01)

Collection Period			I-131 (pCi/m^3)
01/07/14	-	01/21/14	< 0.012
01/21/14	-	02/04/14	< 0.014
02/04/14	-	02/18/14	< 0.006
02/18/14	-	03/04/14	< 0.007
03/04/14	-	03/18/14	< 0.016
03/18/14	-	04/01/14	< 0.012
04/01/14	-	04/14/14	< 0.012
04/14/14	-	04/28/14	< 0.010
04/28/14	-	05/12/14	< 0.015
05/12/14	-	05/27/14	< 0.010
05/27/14	-	06/10/14	< 0.019
06/10/14	-	06/24/14	< 0.008
06/24/14	-	07/08/14	< 0.014
07/08/14	-	07/22/14	< 0.009
07/22/14	-	08/05/14	< 0.010
08/05/14	-	08/19/14	< 0.017
08/19/14	-	09/02/14	< 0.006
09/02/14	-	09/16/14	< 0.010
09/16/14	-	09/30/14	< 0.009
09/30/14	-	10/14/14	< 0.009
10/14/14	-	10/28/14	< 0.012
10/28/14	-	11/10/14	< 0.006
11/10/14	-	11/24/14	< 0.012
11/24/14	-	12/08/14	< 0.008
12/08/14	-	12/22/14	< 0.010
12/22/14	-	01/06/15	< 0.009

Results in picoCuries per cubic meter (pCi/m^3)

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2014 Radiological Environmental Monitoring Program

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

Plant Access Road (AIAI02)

Collection Period			I-131 (pCi/m^3)
01/07/14	-	01/21/14	< 0.012
01/21/14	-	02/04/14	< 0.011
02/04/14	-	02/18/14	< 0.014
02/18/14	-	03/04/14	< 0.019
03/04/14	-	03/18/14	< 0.014
03/18/14	-	04/01/14	< 0.014
04/01/14	-	04/14/14	< 0.013
04/14/14	-	04/28/14	< 0.012
04/28/14	-	05/12/14	< 0.013
05/12/14	-	05/27/14	< 0.019
05/27/14	-	06/10/14	< 0.019
06/10/14	-	06/24/14	< 0.006
06/24/14	-	07/08/14	< 0.009
07/08/14	-	07/22/14	< 0.007
07/22/14	-	08/05/14	< 0.009
08/05/14	-	08/19/14	< 0.010
08/19/14	-	09/02/14	< 0.014
09/02/14	-	09/16/14	< 0.006
09/16/14	-	09/30/14	< 0.018
09/30/14	-	10/14/14	< 0.007
10/14/14	-	10/28/14	< 0.020
10/28/14	-	11/10/14	< 0.008
11/10/14	-	11/24/14	< 0.009
11/24/14	-	12/08/14	< 0.014
12/08/14	-	12/22/14	< 0.008
12/22/14	-	01/06/15	< 0.009

Results in picoCuries per cubic meter (pCi/m^3)

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2014 Radiological Environmental Monitoring Program

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

Lower Alloways Creek School (AIAI03)

Collection Period			I-131 (pCi/m^3)
01/07/14	-	01/21/14	< 0.022
01/21/14	-	02/04/14	< 0.016
02/04/14	-	02/18/14	< 0.008
02/18/14	-	03/04/14	< 0.011
03/04/14	-	03/18/14	< 0.014
03/18/14	-	04/01/14	< 0.013
04/01/14	-	04/14/14	< 0.013
04/14/14	-	04/28/14	< 0.014
04/28/14	-	05/12/14	< 0.011
05/12/14	-	05/27/14	< 0.006
05/27/14	-	06/10/14	< 0.013
06/10/14	-	06/24/14	< 0.005
06/24/14	-	07/08/14	< 0.014
07/08/14	-	07/22/14	< 0.020
07/22/14	-	08/05/14	< 0.012
08/05/14	-	08/19/14	< 0.011
08/19/14	-	09/02/14	< 0.011
09/02/14	-	09/16/14	< 0.012
09/16/14	-	09/30/14	< 0.021
09/30/14	-	10/14/14	< 0.009
10/14/14	-	10/28/14	< 0.013
10/28/14	-	11/10/14	< 0.009
11/10/14	-	11/24/14	< 0.008
11/24/14	-	12/08/14	< 0.010
12/08/14	-	12/22/14	< 0.012
12/22/14	-	01/06/15	< 0.007

Results in picoCuries per cubic meter (pCi/m^3)

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2014 Radiological Environmental Monitoring Program

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

BNE Office (COAP01)

Collection Period			Particulate Gross Beta (pCi/m^3)
01/07/14	-	01/21/14	0.030 ± 0.002
01/21/14	-	02/04/14	0.032 ± 0.003
02/04/14	-	02/18/14	0.034 ± 0.003
02/18/14	-	03/04/14	0.032 ± 0.003
03/04/14	-	03/18/14	0.032 ± 0.003
03/18/14	-	04/01/14	0.022 ± 0.002
04/01/14	-	04/14/14	0.025 ± 0.002
04/14/14	-	04/28/14	0.026 ± 0.002
04/28/14	-	05/12/14	0.017 ± 0.002
05/12/14	-	05/27/14	0.024 ± 0.002
05/27/14	-	06/10/14	0.017 ± 0.002
06/10/14	-	06/24/14	0.018 ± 0.002
06/24/14	-	07/08/14	0.022 ± 0.002
07/08/14	-	07/22/14	0.025 ± 0.002
07/22/14	-	08/05/14	0.022 ± 0.002
08/05/14	-	08/19/14	0.025 ± 0.002
08/19/14	-	09/02/14	0.019 ± 0.002
09/02/14	-	09/16/14	0.020 ± 0.002
09/16/14	-	09/30/14	0.034 ± 0.003
09/30/14	-	10/14/14	0.030 ± 0.002
10/14/14	-	10/28/14	0.019 ± 0.002
10/28/14	-	11/10/14	0.026 ± 0.002
11/10/14	-	11/24/14	0.027 ± 0.002
11/24/14	-	12/08/14	0.026 ± 0.002
12/08/14	-	12/22/14	0.024 ± 0.002
12/22/14	-	01/06/15	0.028 ± 0.002

Results in picoCuries per cubic meter (pCi/m^3) +/- 2 Standard Deviations total measurement uncertainty

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2014 Radiological Environmental Monitoring Program

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

Brendan T. Byrne State Forest (COAP02)

Collection Period			Particulate Gross Beta (pCi/m^3)
01/07/14	-	01/21/14	0.037 ± 0.003
01/21/14	-	02/04/14	0.027 ± 0.002
02/04/14	-	02/18/14	0.037 ± 0.003
02/18/14	-	03/04/14	0.031 ± 0.003
03/04/14	-	03/18/14	0.029 ± 0.002
03/18/14	-	04/01/14	0.023 ± 0.002
04/01/14	-	04/14/14	0.023 ± 0.002
04/14/14	-	04/28/14	0.024 ± 0.002
04/28/14	-	05/12/14	0.022 ± 0.002
05/12/14	-	05/27/14	0.027 ± 0.002
05/27/14	-	06/10/14	0.015 ± 0.002
06/10/14	-	06/24/14	0.019 ± 0.002
06/24/14	-	07/08/14	0.021 ± 0.002
07/08/14	-	07/22/14	0.024 ± 0.002
07/22/14	-	08/05/14	0.019 ± 0.002
08/05/14	-	08/19/14	0.023 ± 0.002
08/19/14	-	09/02/14	0.020 ± 0.002
09/02/14	-	09/16/14	0.019 ± 0.002
09/16/14	-	09/30/14	0.028 ± 0.002
09/30/14	-	10/14/14	0.024 ± 0.002
10/14/14	-	10/28/14	0.021 ± 0.002
10/28/14	-	11/10/14	0.026 ± 0.002
11/10/14	-	11/24/14	0.027 ± 0.002
11/24/14	-	12/08/14	0.024 ± 0.002
12/08/14	-	12/22/14	0.026 ± 0.002
12/22/14	-	01/06/15	0.025 ± 0.002

Results in picoCuries per cubic meter (pCi/m^3) +/- 2 Standard Deviations total measurement uncertainty

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2014 Radiological Environmental Monitoring Program

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

Waretown Municipal Building (OCAP01)

Collection Period			Particulate Gross Beta (pCi/m^3)
01/07/14	-	01/21/14	0.033 ± 0.003
01/21/14	-	02/04/14	0.028 ± 0.002
02/04/14	-	02/18/14	0.037 ± 0.003
02/18/14	-	03/04/14	0.037 ± 0.003
03/04/14	-	03/18/14	0.027 ± 0.002
03/18/14	-	04/01/14	0.023 ± 0.002
04/01/14	-	04/14/14	0.023 ± 0.002
04/14/14	-	04/28/14	0.023 ± 0.002
04/28/14	-	05/12/14	0.020 ± 0.002
05/12/14	-	05/27/14	0.026 ± 0.002
05/27/14	-	06/10/14	0.017 ± 0.002
06/10/14	-	06/24/14	0.017 ± 0.002
06/24/14	-	07/08/14	0.022 ± 0.002
07/08/14	-	07/22/14	0.025 ± 0.002
07/22/14	-	08/05/14	0.017 ± 0.002
08/05/14	-	08/19/14	0.023 ± 0.002
08/19/14	-	09/02/14	0.019 ± 0.002
09/02/14	-	09/16/14	0.020 ± 0.002
09/16/14	-	09/30/14	0.026 ± 0.002
09/30/14	-	10/14/14	0.026 ± 0.002
10/14/14	-	10/28/14	0.018 ± 0.002
10/28/14	-	11/10/14	0.028 ± 0.002
11/10/14	-	11/24/14	0.031 ± 0.002
11/24/14	-	12/08/14	0.028 ± 0.002
12/08/14	-	12/22/14	0.026 ± 0.002
12/22/14	-	01/06/15	0.026 ± 0.002

Results in picoCuries per cubic meter (pCi/m^3) +/- 2 Standard Deviations total measurement uncertainty

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2014 Radiological Environmental Monitoring Program

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

Sands Point Harbor (OCAP02)

Collection Period			Particulate Gross Beta (pCi/m^3)
01/07/14	-	01/21/14	0.034 ± 0.003
01/21/14	-	02/04/14	0.030 ± 0.003
02/04/14	-	02/18/14	0.040 ± 0.004
02/18/14	-	03/04/14	0.033 ± 0.003
03/04/14	-	03/18/14	0.029 ± 0.003
03/18/14	-	04/01/14	0.023 ± 0.002
04/01/14	-	04/14/14	0.025 ± 0.002
04/14/14	-	04/28/14	0.025 ± 0.002
04/28/14	-	05/12/14	0.037 ± 0.010
05/12/14	-	05/27/14	0.027 ± 0.002
05/27/14	-	06/10/14	0.017 ± 0.002
06/10/14	-	06/24/14	0.017 ± 0.002
06/24/14	-	07/08/14	0.022 ± 0.002
07/08/14	-	07/22/14	0.026 ± 0.002
07/22/14	-	08/05/14	0.019 ± 0.002
08/05/14	-	08/19/14	0.022 ± 0.002
08/19/14	-	09/02/14	0.022 ± 0.002
09/02/14	-	09/16/14	0.021 ± 0.002
09/16/14	-	09/30/14	0.026 ± 0.002
09/30/14	-	10/14/14	0.026 ± 0.002
10/14/14	-	10/28/14	0.022 ± 0.003
10/28/14	-	11/10/14	0.032 ± 0.003
11/10/14	-	11/24/14	0.029 ± 0.003
11/24/14	-	12/08/14	0.026 ± 0.002
12/08/14	-	12/22/14	0.026 ± 0.002
12/22/14	-	01/06/15	0.026 ± 0.002

Results in picoCuries per cubic meter (pCi/m^3) +/- 2 Standard Deviations total measurement uncertainty

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2014 Radiological Environmental Monitoring Program

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

Forked River Marina (OCAP03)

Collection Period			Particulate Gross Beta (pCi/m^3)
01/07/14	-	01/21/14	0.030 ± 0.003
01/21/14	-	02/04/14	0.030 ± 0.003
02/04/14	-	02/18/14	0.036 ± 0.003
02/18/14	-	03/04/14	0.031 ± 0.003
03/04/14	-	03/18/14	0.025 ± 0.002
03/18/14	-	04/01/14	0.024 ± 0.002
04/01/14	-	04/14/14	0.020 ± 0.002
04/14/14	-	04/28/14	0.024 ± 0.002
04/28/14	-	05/12/14	0.020 ± 0.002
05/12/14	-	05/27/14	0.022 ± 0.002
05/27/14	-	06/10/14	0.016 ± 0.002
06/10/14	-	06/24/14	0.019 ± 0.002
06/24/14	-	07/08/14	0.021 ± 0.002
07/08/14	-	07/22/14	0.022 ± 0.002
07/22/14	-	08/05/14	0.020 ± 0.002
08/05/14	-	08/19/14	0.022 ± 0.002
08/19/14	-	09/02/14	0.019 ± 0.002
09/02/14	-	09/16/14	0.021 ± 0.002
09/16/14	-	09/30/14	0.024 ± 0.002
09/30/14	-	10/14/14	0.022 ± 0.002
10/14/14	-	10/28/14	0.023 ± 0.003
10/28/14	-	11/10/14	0.027 ± 0.002
11/10/14	-	11/24/14	0.028 ± 0.002
11/24/14	-	12/08/14	0.026 ± 0.002
12/08/14	-	12/22/14	0.025 ± 0.002
12/22/14	-	01/06/15	0.023 ± 0.002

Results in picoCuries per cubic meter (pCi/m^3) +/- 2 Standard Deviations total measurement uncertainty

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2014 Radiological Environmental Monitoring Program

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

Lacey Twp. Recreation Building (OCAP04)

Collection Period			Particulate Gross Beta (pCi/m^3)
01/07/14	-	01/21/14	0.030 ± 0.003
01/21/14	-	02/04/14	0.033 ± 0.003
02/04/14	-	02/18/14	0.035 ± 0.003
02/18/14	-	03/04/14	0.035 ± 0.003
03/04/14	-	03/18/14	0.030 ± 0.003
03/18/14	-	04/01/14	0.022 ± 0.002
04/01/14	-	04/14/14	0.022 ± 0.002
04/14/14	-	04/28/14	0.027 ± 0.002
04/28/14	-	05/12/14	0.019 ± 0.002
05/12/14	-	05/27/14	0.025 ± 0.002
05/27/14	-	06/10/14	0.016 ± 0.002
06/10/14	-	06/24/14	0.023 ± 0.002
06/24/14	-	07/08/14	0.021 ± 0.002
07/08/14	-	07/22/14	0.022 ± 0.002
07/22/14	-	08/05/14	0.019 ± 0.002
08/05/14	-	08/19/14	0.023 ± 0.002
08/19/14	-	09/02/14	0.019 ± 0.002
09/02/14	-	09/16/14	0.021 ± 0.002
09/16/14	-	09/30/14	0.026 ± 0.002
09/30/14	-	10/14/14	0.025 ± 0.002
10/14/14	-	10/28/14	0.019 ± 0.002
10/28/14	-	11/10/14	0.028 ± 0.002
11/10/14	-	11/24/14	0.025 ± 0.002
11/24/14	-	12/08/14	0.027 ± 0.002
12/08/14	-	12/22/14	0.026 ± 0.002
12/22/14	-	01/06/15	0.023 ± 0.002

Results in picoCuries per cubic meter (pCi/m^3) +/- 2 Standard Deviations total measurement uncertainty

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2014 Radiological Environmental Monitoring Program

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

JCP&L Substation (OCAP05)

Collection Period			Particulate Gross Beta (pCi/m^3)
01/07/14	-	01/21/14	0.029 ± 0.002
01/21/14	-	02/04/14	0.028 ± 0.002
02/04/14	-	02/18/14	0.038 ± 0.003
02/18/14	-	03/04/14	0.035 ± 0.003
03/04/14	-	03/18/14	0.027 ± 0.002
03/18/14	-	04/01/14	0.024 ± 0.002
04/01/14	-	04/14/14	0.024 ± 0.002
04/14/14	-	04/28/14	0.024 ± 0.002
04/28/14	-	05/12/14	0.018 ± 0.002
05/12/14	-	05/27/14	0.025 ± 0.002
05/27/14	-	06/10/14	0.016 ± 0.002
06/10/14	-	06/24/14	0.018 ± 0.002
06/24/14	-	07/08/14	0.021 ± 0.002
07/08/14	-	07/22/14	0.023 ± 0.002
07/22/14	-	08/05/14	0.016 ± 0.002
08/05/14	-	08/19/14	0.021 ± 0.002
08/19/14	-	09/02/14	0.021 ± 0.002
09/02/14	-	09/16/14	0.020 ± 0.002
09/16/14	-	09/30/14	0.024 ± 0.002
09/30/14	-	10/14/14	0.024 ± 0.002
10/14/14	-	10/28/14	0.019 ± 0.002
10/28/14	-	11/10/14	0.028 ± 0.002
11/10/14	-	11/24/14	0.027 ± 0.002
11/24/14	-	12/08/14	0.025 ± 0.002
12/08/14	-	12/22/14	0.025 ± 0.002
12/22/14	-	01/06/15	0.024 ± 0.002

Results in picoCuries per cubic meter (pCi/m^3) +/- 2 Standard Deviations total measurement uncertainty

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2014 Radiological Environmental Monitoring Program

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

Finninger Farm, OC Dredge Site (OCAP06)

Collection Period			Particulate Gross Beta (pCi/m^3)
01/02/14	-	01/08/14	0.027 ± 0.005
01/08/14	-	01/15/14	0.033 ± 0.005
01/15/14	-	01/23/14	0.037 ± 0.005
01/23/14	-	01/29/14	0.061 ± 0.010
01/29/14	-	02/06/14	0.034 ± 0.005
02/06/14	-	02/12/14	0.049 ± 0.007
02/12/14	-	02/19/14	0.036 ± 0.005
02/19/14	-	02/27/14	0.030 ± 0.005
02/27/14	-	03/05/14	0.043 ± 0.007
03/05/14	-	03/12/14	0.036 ± 0.006
03/12/14	-	03/19/14	No Data **
03/19/14	-	03/26/14	0.030 ± 0.005
03/26/14	-	04/02/14	0.027 ± 0.005
04/02/14	-	04/09/14	0.022 ± 0.005
04/09/14	-	04/16/14	No Data **
04/16/14	-	04/23/14	0.041 ± 0.006
04/23/14	-	05/01/14	0.022 ± 0.004
05/01/14	-	05/07/14	0.024 ± 0.005
05/07/14	-	05/14/14	0.029 ± 0.005
05/14/14	-	05/21/14	0.039 ± 0.006
05/21/14	-	05/28/14	0.039 ± 0.006
05/28/14	-	06/04/14	0.019 ± 0.004
06/04/14	-	06/11/14	0.020 ± 0.004
06/11/14	-	06/18/14	0.037 ± 0.006
06/18/14	-	06/25/14	0.029 ± 0.005
06/25/14	-	07/02/14	0.031 ± 0.005

Results in picoCuries per cubic meter (pCi/m^3) +/- 2 Standard Deviations total measurement uncertainty

* Air Particulate samples are collected by the licensee on a weekly basis
** "No Data" indicates no sample results due to maintenance issues with equipment

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2014 Radiological Environmental Monitoring Program

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

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

Collection Period			Particulate Gross Beta (pCi/m^3)
07/02/14	-	07/09/14	0.032 ± 0.005
07/09/14	-	07/16/14	0.030 ± 0.005
07/16/14	-	07/23/14	0.027 ± 0.005
07/23/14	-	07/30/14	0.027 ± 0.005
07/30/14	-	08/06/14	0.022 ± 0.005
08/06/14	-	08/13/14	0.027 ± 0.005
08/13/14	-	08/20/14	0.030 ± 0.005
08/20/14	-	08/27/14	0.024 ± 0.005
08/27/14	-	09/03/14	0.033 ± 0.006
09/03/14	-	09/10/14	0.031 ± 0.005
09/10/14	-	09/17/14	0.020 ± 0.004
09/17/14	-	09/24/14	0.028 ± 0.005
09/24/14	-	10/01/14	0.030 ± 0.005
10/01/14	-	10/08/14	0.032 ± 0.006
10/08/14	-	10/14/14	0.040 ± 0.007
10/14/14	-	10/22/14	0.026 ± 0.006
10/22/14	-	10/29/14	0.039 ± 0.007
10/29/14	-	11/05/14	0.031 ± 0.005
11/05/14	-	11/12/14	0.032 ± 0.005
11/12/14	-	11/19/14	0.026 ± 0.005
11/19/14	-	11/25/14	0.025 ± 0.005
11/25/14	-	12/03/14	0.040 ± 0.006
12/03/14	-	12/10/14	0.027 ± 0.005
12/10/14	-	12/17/14	0.032 ± 0.005
12/17/14	-	12/23/14	0.018 ± 0.005
12/23/14	-	12/30/14	0.027 ± 0.005
12/30/14	-	01/07/15	0.038 ± 0.005

Results in picoCuries per cubic meter (pCi/m^3) +/- 2 Standard Deviations total measurement uncertainty

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

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2014 Radiological Environmental Monitoring Program

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

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

Collection Period			Particulate Gross Beta (pCi/m^3)
01/07/14	-	01/21/14	0.032 ± 0.003
01/21/14	-	02/04/14	0.030 ± 0.003
02/04/14	-	02/18/14	0.034 ± 0.003
02/18/14	-	03/04/14	0.034 ± 0.003
03/04/14	-	03/18/14	0.029 ± 0.002
03/18/14	-	04/01/14	0.021 ± 0.002
04/01/14	-	04/14/14	0.022 ± 0.002
04/14/14	-	04/28/14	0.023 ± 0.002
04/28/14	-	05/12/14	0.020 ± 0.002
05/12/14	-	05/27/14	0.025 ± 0.002
05/27/14	-	06/10/14	0.013 ± 0.002
06/10/14	-	06/24/14	0.019 ± 0.002
06/24/14	-	07/08/14	0.020 ± 0.002
07/08/14	-	07/22/14	0.023 ± 0.002
07/22/14	-	08/05/14	0.020 ± 0.002
08/05/14	-	08/19/14	0.025 ± 0.002
08/19/14	-	09/02/14	0.021 ± 0.002
09/02/14	-	09/16/14	0.019 ± 0.002
09/16/14	-	09/30/14	0.022 ± 0.002
09/30/14	-	10/14/14	0.024 ± 0.002
10/14/14	-	10/28/14	0.019 ± 0.002
10/28/14	-	11/10/14	0.028 ± 0.002
11/10/14	-	11/24/14	0.029 ± 0.002
11/24/14	-	12/08/14	0.027 ± 0.002
12/08/14	-	12/22/14	0.028 ± 0.002
12/22/14	-	01/06/15	0.025 ± 0.002

Results in picoCuries per cubic meter (pCi/m^3) +/- 2 Standard Deviations total measurement uncertainty

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2014 Radiological Environmental Monitoring Program

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

Fort Elfsborg Road (AIAP01)

Collection Period			Particulate Gross Beta (pCi/m^3)
01/07/14	-	01/21/14	0.034 ± 0.003
01/21/14	-	02/04/14	0.033 ± 0.003
02/04/14	-	02/18/14	0.037 ± 0.003
02/18/14	-	03/04/14	0.031 ± 0.003
03/04/14	-	03/18/14	0.031 ± 0.003
03/18/14	-	04/01/14	0.024 ± 0.002
04/01/14	-	04/14/14	0.026 ± 0.002
04/14/14	-	04/28/14	0.025 ± 0.002
04/28/14	-	05/12/14	0.020 ± 0.002
05/12/14	-	05/27/14	0.026 ± 0.002
05/27/14	-	06/10/14	0.019 ± 0.002
06/10/14	-	06/24/14	0.022 ± 0.002
06/24/14	-	07/08/14	0.023 ± 0.002
07/08/14	-	07/22/14	0.024 ± 0.002
07/22/14	-	08/05/14	0.020 ± 0.002
08/05/14	-	08/19/14	0.025 ± 0.002
08/19/14	-	09/02/14	0.023 ± 0.002
09/02/14	-	09/16/14	0.020 ± 0.002
09/16/14	-	09/30/14	0.028 ± 0.002
09/30/14	-	10/14/14	0.028 ± 0.002
10/14/14	-	10/28/14	0.022 ± 0.002
10/28/14	-	11/10/14	0.030 ± 0.002
11/10/14	-	11/24/14	0.031 ± 0.002
11/24/14	-	12/08/14	0.028 ± 0.002
12/08/14	-	12/22/14	0.030 ± 0.002
12/22/14	-	01/06/15	0.028 ± 0.002

Results in picoCuries per cubic meter (pCi/m^3) +/- 2 Standard Deviations total measurement uncertainty

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2014 Radiological Environmental Monitoring Program

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

Plant Access Road (AIAP02)

Collection Period			Particulate Gross Beta (pCi/m^3)
01/07/14	-	01/21/14	0.031 ± 0.003
01/21/14	-	02/04/14	0.031 ± 0.003
02/04/14	-	02/18/14	0.040 ± 0.003
02/18/14	-	03/04/14	0.036 ± 0.003
03/04/14	-	03/18/14	0.033 ± 0.003
03/18/14	-	04/01/14	0.025 ± 0.002
04/01/14	-	04/14/14	0.027 ± 0.003
04/14/14	-	04/28/14	0.026 ± 0.002
04/28/14	-	05/12/14	0.020 ± 0.002
05/12/14	-	05/27/14	0.031 ± 0.002
05/27/14	-	06/10/14	0.020 ± 0.002
06/10/14	-	06/24/14	0.022 ± 0.002
06/24/14	-	07/08/14	0.020 ± 0.002
07/08/14	-	07/22/14	0.022 ± 0.002
07/22/14	-	08/05/14	0.020 ± 0.002
08/05/14	-	08/19/14	0.024 ± 0.002
08/19/14	-	09/02/14	0.024 ± 0.002
09/02/14	-	09/16/14	0.022 ± 0.002
09/16/14	-	09/30/14	0.028 ± 0.002
09/30/14	-	10/14/14	0.025 ± 0.002
10/14/14	-	10/28/14	0.020 ± 0.002
10/28/14	-	11/10/14	0.027 ± 0.002
11/10/14	-	11/24/14	0.034 ± 0.003
11/24/14	-	12/08/14	0.029 ± 0.002
12/08/14	-	12/22/14	0.030 ± 0.003
12/22/14	-	01/06/15	0.026 ± 0.002

Results in picoCuries per cubic meter (pCi/m^3) +/- 2 Standard Deviations total measurement uncertainty

New Jersey Department of Environmental Protection
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2014 Radiological Environmental Monitoring Program

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

Lower Alloways Creek School (AIAP03)

Collection Period			Particulate Gross Beta (pCi/m^3)
01/07/14	-	01/21/14	0.032 ± 0.003
01/21/14	-	02/04/14	0.032 ± 0.003
02/04/14	-	02/18/14	0.038 ± 0.003
02/18/14	-	03/04/14	0.036 ± 0.003
03/04/14	-	03/18/14	0.031 ± 0.003
03/18/14	-	04/01/14	0.022 ± 0.002
04/01/14	-	04/14/14	0.023 ± 0.002
04/14/14	-	04/28/14	0.025 ± 0.002
04/28/14	-	05/12/14	0.021 ± 0.002
05/12/14	-	05/27/14	0.024 ± 0.002
05/27/14	-	06/10/14	0.017 ± 0.002
06/10/14	-	06/24/14	0.020 ± 0.002
06/24/14	-	07/08/14	0.023 ± 0.002
07/08/14	-	07/22/14	0.024 ± 0.002
07/22/14	-	08/05/14	0.019 ± 0.002
08/05/14	-	08/19/14	0.025 ± 0.002
08/19/14	-	09/02/14	0.019 ± 0.002
09/02/14	-	09/16/14	0.019 ± 0.002
09/16/14	-	09/30/14	0.027 ± 0.002
09/30/14	-	10/14/14	0.030 ± 0.002
10/14/14	-	10/28/14	0.023 ± 0.003
10/28/14	-	11/10/14	0.029 ± 0.002
11/10/14	-	11/24/14	0.027 ± 0.002
11/24/14	-	12/08/14	0.028 ± 0.002
12/08/14	-	12/22/14	0.032 ± 0.002
12/22/14	-	01/06/15	0.026 ± 0.002

Results in picoCuries per cubic meter (pCi/m^3) +/- 2 Standard Deviations total measurement uncertainty

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2014 Radiological Environmental Monitoring Program

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

BNE Office (COAP01)

Collection Period			Co-60	Cs-134	Cs-137	Be-7	Sr-89	Sr-90
01/07/14	-	04/01/14	< 0.9	< 1.0	< 0.7	136 ± 27	< 49.4	< 17.8
04/01/14	-	06/24/14	< 0.6	< 0.5	< 0.5	89 ± 21	< 47.1	< 12.9
06/24/14	-	09/30/14	< 0.4	< 0.4	< 0.3	113 ± 16	< 35.1	< 10.6
09/30/14	-	12/22/14	< 0.6	< 0.3	< 0.4	82 ± 18	< 31.6	< 29.6

Brendan T. Byrne State Forest (COAP02)

Collection Period			Co-60	Cs-134	Cs-137	Be-7	Sr-89	Sr-90
01/07/14	-	04/01/14	< 0.5	< 0.4	< 0.5	91 ± 16	< 67.5	< 15.9
04/01/14	-	06/24/14	< 0.4	< 0.5	< 0.3	105 ± 19	< 49.5	< 27.4
06/24/14	-	09/30/14	< 0.4	< 0.4	< 0.4	98 ± 16	< 58.2	< 12.2
09/30/14	-	12/22/14	< 0.5	< 0.4	< 0.4	74 ± 17	< 47.8	< 17.3

Results in 10^{-3} picoCuries per cubic meter (pCi/m^3) +/- 2 Standard Deviations total measurement uncertainty

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

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2014 Radiological Environmental Monitoring Program

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

Waretown Municipal Building (OCAP01)

Collection Period			Co-60	Cs-134	Cs-137	Be-7	Sr-89	Sr-90
01/07/14	-	04/01/14	< 1.2	< 1.0	< 0.8	113 ± 26	< 38.5	< 17.9
04/01/14	-	06/24/14	< 0.6	< 0.6	< 0.4	100 ± 20	< 49.9	< 14.4
06/24/14	-	09/30/14	< 0.4	< 0.5	< 0.3	110 ± 17	< 36.5	< 13.4
09/30/14	-	12/22/14	< 0.4	< 0.4	< 0.3	87 ± 15	< 42.8	< 20.5

Sands Point Harbor (OCAP02)

Collection Period			Co-60	Cs-134	Cs-137	Be-7	Sr-89	Sr-90
01/07/14	-	04/01/14	< 0.6	< 0.7	< 0.5	98 ± 20	< 48.2	< 28.7
04/01/14	-	06/24/14	< 0.4	< 0.7	< 0.6	117 ± 26	< 69.8	< 19.2
06/24/14	-	09/30/14	< 0.3	< 0.3	< 0.2	109 ± 16	< 70.7	< 11.2
09/30/14	-	12/22/14	< 0.4	< 0.6	< 0.4	87 ± 15	< 39.1	< 18.8

Forked River Marina (OCAP03)

Collection Period			Co-60	Cs-134	Cs-137	Be-7	Sr-89	Sr-90
01/07/14	-	04/01/14	< 0.6	< 0.5	< 0.4	107 ± 18	< 39.8	< 20.0
04/01/14	-	06/24/14	< 0.6	< 0.6	< 0.8	101 ± 25	< 44.7	< 11.9
06/24/14	-	09/30/14	< 0.2	< 0.2	< 0.3	98 ± 13	< 34.8	< 13.8
09/30/14	-	12/22/14	< 0.5	< 0.4	< 0.3	94 ± 17	< 52.1	< 15.0

Lacey Township Recreation Building (OCAP04)

Collection Period			Co-60	Cs-134	Cs-137	Be-7	Sr-89	Sr-90
01/07/14	-	04/01/14	< 0.5	< 0.5	< 0.4	86 ± 19	< 36.3	< 23.6
04/01/14	-	06/24/14	< 0.8	< 0.9	< 0.7	67 ± 34	< 52.4	< 17.1
06/24/14	-	09/30/14	< 0.3	< 0.3	< 0.3	101 ± 13	< 43.4	< 13.8
09/30/14	-	12/22/14	< 0.6	< 0.4	< 0.4	81 ± 15	< 45.6	< 15.6

Results in 10^{-3} picoCuries per cubic meter (pCi/m^3) +/- 2 Standard Deviations total measurement uncertainty

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

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2014 Radiological Environmental Monitoring Program

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

Jersey Central Power and Light Substation (OCAP05)

Collection Period			Co-60	Cs-134	Cs-137	Be-7	Sr-89	Sr-90
01/07/14	-	04/01/14	< 0.4	< 0.5	< 0.4	105 ± 18	< 35.1	< 27.5
04/01/14	-	06/24/14	< 0.3	< 0.6	< 0.3	123 ± 21	< 40.5	< 22.6
06/24/14	-	09/30/14	< 0.3	< 0.2	< 0.3	107 ± 14	< 39.4	< 11.6
09/30/14	-	12/22/14	< 0.5	< 0.5	< 0.3	76 ± 14	< 29.2	< 18.0

Finninger Farm, OC Dredge Site (OCAP06)

Collection Period			Co-60	Cs-134	Cs-137	Be-7	Sr-89	Sr-90
01/08/14	-	04/02/14	< 0.9	< 1.2	< 0.9	107 ± 25	< 102.0	< 41.1
04/02/14	-	07/02/14	< 1.0	< 1.1	< 0.5	95 ± 25	< 104.0	< 29.4
07/02/14	-	10/01/14	< 2.0	< 1.8	< 1.5	109 ± 38	< 88.2	< 41.5
10/01/14	-	12/30/14	< 1.1	< 1.0	< 1.0	80 ± 23	< 75.9	< 40.3

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

Collection Period			Co-60	Cs-134	Cs-137	Be-7	Sr-89	Sr-90
01/07/14	-	04/01/14	< 0.8	< 1.0	< 0.8	112 ± 22	< 61.3	< 15.4
04/01/14	-	06/24/14	< 0.5	< 0.6	< 0.5	117 ± 21	< 40.2	< 12.7
06/24/14	-	09/30/14	< 0.2	< 0.3	< 0.3	118 ± 16	< 39.0	< 11.2
09/30/14	-	12/22/14	< 0.7	< 0.8	< 0.7	99 ± 19	< 54.2	< 16.6

Results in 10^{-3} picoCuries per cubic meter (pCi/m^3) +/- 2 Standard Deviations total measurement uncertainty

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

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2014 Radiological Environmental Monitoring Program

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

Fort Elfsborg Road (AIAP01)

Collection Period			Co-60	Cs-134	Cs-137	Be-7	Sr-89	Sr-90
01/07/14	-	04/01/14	< 1.1	< 0.8	< 0.5	114 ± 21	< 40.9	< 23.5
04/01/14	-	06/24/14	< 0.7	< 0.4	< 0.5	128 ± 22	< 51.4	< 11.6
06/24/14	-	09/30/14	< 0.4	< 0.3	< 0.2	104 ± 15	< 52.9	< 15.8
09/30/14	-	12/22/14	< 0.5	< 0.4	< 0.4	85 ± 16	< 33.9	< 19.0

Plant Access Road (AIAP02)

Collection Period			Co-60	Cs-134	Cs-137	Be-7	Sr-89	Sr-90
01/07/14	-	04/01/14	< 0.6	< 0.5	< 0.5	110 ± 20	< 32.6	< 16.0
04/01/14	-	06/24/14	< 0.5	< 0.5	< 0.4	118 ± 22	< 56.1	< 22.5
06/24/14	-	09/30/14	< 0.2	< 0.3	< 0.2	120 ± 15	< 53.1	< 14.6
09/30/14	-	12/22/14	< 0.5	< 0.7	< 0.5	106 ± 21	< 56.2	< 34.6

Lower Alloways Creek School (AIAP03)

Collection Period			Co-60	Cs-134	Cs-137	Be-7	Sr-89	Sr-90
01/07/14	-	04/01/14	< 0.5	< 0.4	< 0.5	95 ± 18	< 34.9	< 20.3
04/01/14	-	06/24/14	< 0.4	< 0.5	< 0.4	119 ± 19	< 53.8	< 11.5
06/24/14	-	09/30/14	< 0.2	< 0.3	< 0.3	101 ± 15	< 39.6	< 15.4
09/30/14	-	12/22/14	< 0.4	< 0.5	< 0.4	90 ± 16	< 36.0	< 17.2

Results in 10^{-3} picoCuries per cubic meter (pCi/m^3) +/- 2 Standard Deviations total measurement uncertainty

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

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2014 Radiological Environmental Monitoring Program

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

Stouts Creek (OCFS01)

Collection Date	Co-58	Co-60	Cs-134	Cs-137	K-40	Sr-89	Sr-90
04/16/14 – Clams	< 6	< 6	< 6	< 7	1,830 ± 226	No Data*	No Data*
09/29/14 – Clams	< 4	< 5	< 4	< 4	1,310 ± 155	< 376	< 332

East of Site – Barnegat Bay (OCFS02)

Collection Date	Co-58	Co-60	Cs-134	Cs-137	K-40	Sr-89	Sr-90
04/16/14 - Clams	< 4	< 6	< 5	< 5	1,770 ± 214	No Data*	No Data*
09/29/14 – Clams	< 4	< 4	< 4	< 4	1,580 ± 167	< 678	< 508

Great Bay / Little Egg Harbor (OCFS03)

Collection Date	Co-58	Co-60	Cs-134	Cs-137	K-40	Sr-89	Sr-90
04/15/14 - Clams	< 6	< 6	< 6	< 6	1,260 ± 167	No Data*	No Data*
09/30/14 - Clams	< 3	< 4	< 4	< 4	1,420 ± 153	< 688	< 635

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

Collection Date	Co-58	Co-60	Cs-134	Cs-137	K-40	Sr-89	Sr-90
04/14/14 – Striped Bass	< 4	< 5	< 5	< 5	3,520 ± 349	< 382	< 284
09/29/14 – Striped Bass	< 4	< 5	< 5	< 4	4,130 ± 378	< 548	< 533

* No Data due to insufficient sample medium to perform Radiochemical Strontium 89/90 analysis

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

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

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2014 Radiological Environmental Monitoring Program

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

Delaware River – Near Plant Discharge Outfall Area – Salem NGS (AIFS01)

Collection Date	Co-58	Co-60	Cs-134	Cs-137	K-40	Sr-89	Sr-90
05/29/14 – Striped Bass	< 4	< 4	< 3	< 3	3,690 ± 343	< 295	< 293
09/19/14 – Hardshell Crab	< 4	< 4	< 4	< 4	3,220 ± 296	< 300	< 298

Delaware River – West Bank Upstream (AIFS02)

Collection Date	Co-58	Co-60	Cs-134	Cs-137	K-40	Sr-89	Sr-90
05/28/14 – Striped Bass	< 4	< 4	< 4	< 3	3,370 ± 328	< 312	< 212
07/28/14 - Hardshell Crab	< 5	< 5	< 5	< 5	2,700 ± 264	< 267	< 158
09/19/14 – Hardshell Crab	< 3	< 3	< 3	< 3	2,920 ± 263	< 354	< 240
09/23/14 – Bluefish	< 9	< 6	< 6	< 6	3,130 ± 299	< 424	< 230

Results in picocuries per kilogram – WET (pCi/kg) +/- 2 Standard Deviations total measurement uncertainty

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

New Jersey Department of Environmental Protection
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Oyster Creek
Concentrations of Gamma Emitters in Aquatic Sediment Samples

Barnegat Bay (OCAQ01)

Collection Date	Be-7	Co-58	Co-60	Cs-134	Cs-137	Mn-54	K-40
04/16/14	< 165	< 22	< 19	< 24	< 21	< 21	976 ± 227
09/29/14	< 237	< 29	< 28	< 31	< 28	< 28	5,310 ± 636

Oyster Creek Discharge Canal (OCAQ02)

Collection Date	Be-7	Co-58	Co-60	Cs-134	Cs-137	Mn-54	K-40
04/14/14	< 219	< 25	< 27	< 31	40 ± 19	< 27	9,250 ± 1,010
09/29/14	< 152	< 15	< 17	< 20	< 16	< 16	3,300 ± 412

Great Bay / Little Egg Harbor (OCAQ03)

Collection Date	Be-7	Co-58	Co-60	Cs-134	Cs-137	Mn-54	K-40
04/15/14	< 153	< 18	< 20	< 22	48 ± 16	< 19	13,900 ± 1,430
09/30/14	< 131	< 15	< 16	< 19	< 17	< 15	7,380 ± 783

Stouts Creek (OCAQ04)

Collection Date	Be-7	Co-58	Co-60	Cs-134	Cs-137	Mn-54	K-40
04/16/14	131 ± 106	< 14	< 16	< 17	< 15	< 14	2,670 ± 338
09/29/14	129 ± 123	< 13	< 11	< 16	< 12	< 13	1,570 ± 230

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

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

New Jersey Department of Environmental Protection
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Salem/Hope Creek
Concentrations of Gamma Emitters in Aquatic Sediment Samples

Delaware River Near Site Helipad (AIAQ01)

Collection Date	Be-7	Co-58	Co-60	Cs-134	Cs-137	Mn-54	K-40
12/03/14	< 213	< 25	< 23	< 37	< 27	< 32	4,110 ± 693

Delaware River Near Plant Discharge Outfall Area – Salem Station NGS (AIAQ02)

Collection Date	Be-7	Co-58	Co-60	Cs-134	Cs-137	Mn-54	K-40
06/27/14	211 ± 162	< 18	< 22	< 23	< 19	< 19	5,220 ± 570
11/28/14	< 220	< 25	< 23	< 30	< 28	< 28	2,150 ± 424

Delaware River - Near Hope Creek NGS Cooling Tower Blow Down Discharge Line Outfall (AIAQ03)

Collection Date	Be-7	Co-58	Co-60	Cs-134	Cs-137	Mn-54	K-40
06/27/14	< 163	< 18	< 20	< 25	< 20	< 20	6,320 ± 672
11/28/14	< 211	< 27	< 30	< 32	< 25	< 25	6,570 ± 751

Delaware River Near South Storm Drain Discharge Line (AIAQ04)

Collection Date	Be-7	Co-58	Co-60	Cs-134	Cs-137	Mn-54	K-40
06/27/14	220 ± 154	< 19	< 19	< 25	< 21	< 18	6,750 ± 739
11/28/14	< 207	< 24	< 29	< 33	< 25	< 27	4,920 ± 599

West Bank of Delaware River – Upstream (AIAQ05)

Collection Date	Be-7	Co-58	Co-60	Cs-134	Cs-137	Mn-54	K-40
06/27/14	< 258	< 29	< 29	< 36	< 29	< 28	14,400 ± 1,520
11/28/14	< 229	< 28	< 28	< 34	< 29	< 28	13,800 ± 1,360

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

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

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2014 Radiological Environmental Monitoring Program

Oyster Creek
Concentrations of Gamma Emitters in Vegetable Samples

Oyster Creek Onsite Garden - ESE (OCVE01)

Sample	Collection Date	Co-58	Co-60	Cs-134	Cs-137	K-40
Cabbage	06/30/14	< 9	< 11	< 10	< 10	3,920 ± 451
Collards	06/30/14	< 9	<10	< 10	< 10	4,070 ± 433
Kale	06/30/14	< 8	< 8	< 10	< 9	4,240 ± 419
Cabbage	07/30/14	< 18	< 40	< 31	< 33	2,020 ± 563
Collards	07/30/14	< 35	< 12	< 32	< 34	3,290 ± 665
Kale	07/30/14	< 35	< 40	< 37	< 38	3,560 ± 815
Cabbage	08/20/14	< 7	< 7	< 7	< 7	1,680 ± 210
Collards	08/20/14	< 9	< 11	< 10	< 9	3,100 ± 344
Kale	08/20/14	< 15	< 16	< 16	< 14	3,060 ± 410
Cabbage	09/16/14	< 9	< 8	< 9	< 8	1,900 ± 227
Collards	09/16/14	< 7	< 9	< 8	< 7	3,100 ± 321
Kale	09/16/14	< 8	< 9	< 9	< 8	2,850 ± 321
Collards	10/22/14	< 8	< 10	< 9	< 9	2,420 ± 286
Kale	10/22/14	< 12	< 13	< 14	< 13	4,150 ± 448

Private Farm – NW (OCVE02)

Sample	Collection Date	Co-58	Co-60	Cs-134	Cs-137	K-40
Cabbage	06/30/14	< 7	< 8	< 8	< 7	3,150 ± 335
Collards	06/30/14	< 5	< 6	< 6	< 6	4,630 ± 443
Kale	06/30/14	< 5	< 6	< 6	< 6	4,850 ± 468
Cabbage	07/30/14	< 30	< 27	< 30	< 25	2,620 ± 537
Collards	07/30/14	< 21	< 26	< 24	< 21	3,910 ± 621
Kale	07/30/14	< 32	< 33	< 38	< 23	2,030 ± 554
Cabbage	08/20/14	< 19	< 24	< 17	< 17	2,080 ± 407
Collards	08/20/14	< 15	< 18	< 18	< 14	3,580 ± 475
Kale	08/20/14	< 21	< 25	< 22	< 23	4,280 ± 623
Cabbage	09/16/14	< 8	< 8	< 8	< 9	1,590 ± 222
Collards	09/16/14	< 10	< 11	< 11	< 10	3,370 ± 375
Kale	09/16/14	< 11	< 14	< 12	< 12	3,640 ± 423
Cabbage	10/31/14	< 6	< 6	< 6	< 6	2,190 ± 236
Collards	10/31/14	< 6	< 7	< 6	< 6	3,580 ± 349
Kale	10/31/14	< 8	< 9	< 10	< 8	3,810 ± 405

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

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

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2014 Radiological Environmental Monitoring Program

Oyster Creek
Concentrations of Gamma Emitters in Vegetable Samples

Oyster Creek Onsite Garden - SE (OCVE03)

Sample	Collection Date	Co-58	Co-60	Cs-134	Cs-137	K-40
Cabbage	06/30/14	< 9	< 10	< 10	< 9	5,010 ± 507
Collards	06/30/14	< 10	< 11	< 11	< 9	7,450 ± 711
Kale	06/30/14	< 7	< 9	< 9	< 8	4,520 ± 449
Cabbage	07/30/14	< 22	< 26	< 38	< 30	5,040 ± 912
Collards	07/30/14	< 30	< 30	< 41	< 38	5,140 ± 921
Kale	07/30/14	< 23	< 45	< 35	< 32	3,720 ± 805
Cabbage	08/20/14	< 19	< 23	< 24	< 17	4,160 ± 594
Collards	08/20/14	< 24	< 24	< 27	< 24	3,870 ± 564
Kale	08/20/14	< 20	< 16	< 25	< 24	2,670 ± 480
Cabbage	09/16/14	< 9	< 12	< 12	< 11	3,990 ± 425
Collards	09/16/14	< 8	< 8	< 9	< 7	3,500 ± 356
Kale	09/16/14	< 10	< 10	< 11	< 11	3,130 ± 339
Cabbage	10/22/14	< 8	< 8	< 9	< 8	2,400 ± 287
Collards	10/22/14	< 9	< 11	< 10	< 9	4,390 ± 448
Kale	10/22/14	< 9	< 11	< 10	< 9	3,940 ± 409

Oyster Creek Onsite Garden - E (OCVE07)

Sample	Collection Date	Co-58	Co-60	Cs-134	Cs-137	K-40
Cabbage	06/30/14	< 7	< 8	< 8	< 7	5,730 ± 538
Collards	06/30/14	< 10	< 10	< 11	< 9	6,570 ± 657
Kale	06/30/14	< 7	< 8	< 8	< 7	5,510 ± 559
Cabbage	07/30/14	< 30	< 29	< 23	< 27	2,940 ± 638
Collards	07/30/14	< 27	< 25	< 30	< 31	5,430 ± 836
Kale	07/30/14	< 32	< 33	< 36	< 27	5,470 ± 993
Cabbage	08/20/14	< 8	< 10	< 9	< 8	2,090 ± 254
Collards	08/20/14	< 21	< 17	< 20	< 19	4,850 ± 667
Kale	08/20/14	< 19	< 21	< 18	< 17	4,170 ± 601
Cabbage	09/16/14	< 6	< 7	< 7	< 9	1,860 ± 215
Collards	09/16/14	< 8	< 9	< 10	< 9	4,500 ± 450
Kale	09/16/14	< 9	< 9	< 9	< 8	4,010 ± 404
Cabbage	10/22/14	< 8	< 9	< 9	< 9	3,580 ± 375
Collards	10/22/14	< 9	< 10	< 10	< 10	3,620 ± 379
Kale	10/22/14	< 8	< 10	< 9	< 9	3,720 ± 389

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

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

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2014 Radiological Environmental Monitoring Program

Salem/Hope Creek
Concentrations of Gamma Emitters in Vegetable Samples

Private Farm – NNE (AIVE04)

Sample	Collection Date	Co-58	Co-60	Cs-134	Cs-137	K-40
Asparagus	05/19/14	< 12	< 14	< 13	< 12	2,040 ± 318
Pepper	07/30/14	< 18	< 16	< 16	< 14	1,610 ± 410
Corn	07/30/14	< 23	< 21	< 33	< 23	2,650 ± 587
Tomato	07/30/14	< 15	< 18	< 21	< 20	1,670 ± 431

Farm Market - NE (AIVE11)

Sample	Collection Date	Co-58	Co-60	Cs-134	Cs-137	K-40
Corn	07/30/14	< 12	< 27	< 21	< 21	2,200 ± 439

Onsite – N (AIVE12)

Sample	Collection Date	Co-58	Co-60	Cs-134	Cs-137	K-40
Cabbage	10/27/14	< 7	< 8	< 8	< 7	1,710 ± 197
Cabbage	11/19/14	< 6	< 7	< 6	< 6	1,970 ± 225
Collards	11/19/14	< 18	< 18	< 17	< 16	4,140 ± 566

Onsite - NNW (AIVE14)

Sample	Collection Date	Co-58	Co-60	Cs-134	Cs-137	K-40
Cabbage	09/30/14	< 10	< 12	< 12	< 12	2,170 ± 309
Collards	09/30/14	< 9	< 11	< 11	< 11	3,040 ± 369
Collards	10/27/14	< 9	< 10	< 11	< 10	3,610 ± 375
Collards	11/19/14	< 13	< 11	< 14	< 14	3,040 ± 398

Private Farm – SSW (AIVE15)

Sample	Collection Date	Co-58	Co-60	Cs-134	Cs-137	K-40
Collards	10/27/14	< 7	< 9	< 8	< 7	3,530 ± 359
Collards	11/19/14	< 11	< 14	< 14	< 13	3,810 ± 457

Private Farm – NW (AIVE22)

Sample	Collection Date	Co-58	Co-60	Cs-134	Cs-137	K-40
Tomato	07/30/14	< 14	< 18	< 18	< 15	1,830 ± 362

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

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

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2014 Radiological Environmental Monitoring Program

Salem/Hope Creek
Concentrations of Gamma Emitters in Vegetable Samples

Onsite – SE (AIVE25)

Sample	Collection Date	Co-58	Co-60	Cs-134	Cs-137	K-40
Collards	09/30/14	< 12	< 12	< 14	< 14	3,180 ± 384
Collards	10/27/14	< 11	< 9	< 11	< 10	3,540 ± 380
Collards	11/19/14	< 13	< 15	< 17	< 14	4,030 ± 487

Onsite - NW (AIVE26)

Sample	Collection Date	Co-58	Co-60	Cs-134	Cs-137	K-40
Cabbage	09/30/14	< 8	< 10	< 10	< 10	2,100 ± 260
Cabbage	10/27/14	< 7	< 8	< 7	< 7	2,160 ± 242

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

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

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2014 Radiological Environmental Monitoring Program

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

State of New Jersey Dairy Farm (COMI01)

Collection Date	Cs-137	I-131	K-40	Sr-89	Sr-90
03/05/14	< 6.74	< 0.65	1,250 ± 184	< 0.42	< 0.93
08/05/14	< 4.97	< 0.70	1,490 ± 188	< 0.86	< 0.59
10/06/14	< 5.13	< 0.51	1,280 ± 166	< 0.88	< 0.91
12/08/14	< 6.44	< 0.72	2,350 ± 270	< 0.83	< 0.35

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

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

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2014 Radiological Environmental Monitoring Program

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

Private Farm – NNE (AIMI01)

Collection Date	Cs-137	I-131	K-40	Sr-89	Sr-90
01/06/14	< 6.57	< 0.60	1,450 ± 192	< 0.88	< 0.90
02/10/14	< 6.48	< 0.76	1,470 ± 205	< 0.84	< 0.82
03/10/14	< 3.67	< 0.84	1,350 ± 152	< 0.59	< 0.87
04/07/14	< 5.61	< 0.50	1,530 ± 193	< 0.83	< 0.88
05/05/14	< 4.68	< 0.59	1,330 ± 191	< 0.85	< 0.68
06/02/14	< 5.49	< 0.62	1,470 ± 185	< 0.87	< 0.94
07/07/14	< 4.67	< 0.80	1,400 ± 178	< 0.87	< 0.94
08/04/14	< 2.51	< 0.58	1,340 ± 132	< 0.87	< 0.85
09/02/14	< 5.38	< 0.62	1,800 ± 216	< 0.53	< 0.88
10/06/14	< 6.75	< 0.61	1,150 ± 177	< 0.90	< 0.90
11/10/14	< 3.58	< 0.90	1,380 ± 161	< 0.92	< 0.94
12/08/14	< 5.80	< 0.59	1,470 ± 190	< 0.84	< 0.63

Private Farm – NE (AIMI02)

Collection Date	Cs-137	I-131	K-40	Sr-89	Sr-90
01/06/14	< 5.72	< 0.60	1,240 ± 180	< 0.83	< 0.91
02/10/14	< 5.10	< 0.59	1,340 ± 177	< 0.88	< 0.91
03/10/14	< 3.99	< 0.91	1,320 ± 150	< 0.85	< 0.81
04/07/14	< 5.23	< 0.64	1,400 ± 199	< 0.83	< 0.87
05/05/14	< 5.81	< 0.83	1,360 ± 179	< 0.93	< 0.91
06/02/14	< 6.13	< 0.58	1,340 ± 181	< 0.86	< 0.90
07/07/14	< 5.25	< 0.78	1,390 ± 195	< 0.84	< 0.99
08/04/14	< 3.50	< 0.78	1,320 ± 140	< 0.98	< 0.85
09/02/14	< 5.17	< 0.79	1,390 ± 184	< 0.47	< 0.91
10/06/14	< 4.37	< 0.55	1,520 ± 177	< 0.87	< 0.82
11/10/14	< 4.60	< 0.88	1,430 ± 159	< 0.93	< 0.93
12/08/14	< 6.12	< 0.66	1,270 ± 187	< 0.91	< 0.69

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

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

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2014 Radiological Environmental Monitoring Program

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	Sr-90
01/06/14	< 5.86	< 0.75	1,380 ± 191	< 0.91	< 0.92
02/10/14	< 5.20	< 0.59	1,610 ± 191	< 0.87	< 0.85
03/10/14	< 5.33	< 0.70	1,390 ± 180	< 0.53	< 0.88
04/07/14	< 5.39	< 0.50	1,460 ± 187	< 0.86	< 0.87
05/05/14	< 4.89	< 0.68	1,510 ± 186	< 0.88	< 0.92
06/02/14	< 7.33	< 0.56	1,410 ± 220	< 0.89	< 0.87
07/07/14	< 5.96	< 0.56	1,380 ± 194	< 0.90	< 0.83
08/04/14	< 2.85	< 0.69	1,400 ± 145	< 0.94	< 0.57
09/02/14	< 5.46	< 0.77	1,640 ± 214	< 0.48	< 0.73
10/06/14	< 5.88	< 0.66	1,520 ± 200	< 0.88	< 0.88
11/10/14	< 3.80	< 0.81	1,610 ± 179	< 0.94	< 0.93
12/08/14	< 5.64	< 0.61	1,410 ± 202	< 0.89	< 0.53

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

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

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2014 Radiological Environmental Monitoring Program

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

Barnegat Bay (OCSW01)

Collection Date	Co-58	Co-60	Cs-134	Cs-137	H-3	I-131
04/16/14	< 3.18	< 4.28	< 3.56	< 3.60	< 156	< 0.91
09/29/14	< 2.11	< 1.92	< 2.30	< 2.21	< 233	< 0.77

Great Bay / Little Egg Harbor (OCSW02)

Collection Date	Co-58	Co-60	Cs-134	Cs-137	H-3	I-131
01/09/14 - 01/28/14	< 3.59	< 3.85	< 4.01	< 3.77	< 219	< 0.93
02/06/14 - 02/27/14	< 2.39	< 2.21	< 2.19	< 2.15	< 222	< 0.65
03/05/14 - 03/26/14	< 3.07	< 4.19	< 4.28	< 4.26	< 210	< 0.83
04/04/14 - 04/30/14	< 2.77	< 2.72	< 3.42	< 2.91	< 193	< 0.86
05/09/14 - 05/28/14	< 3.55	< 6.43	< 5.21	< 5.55	< 224	< 0.68
06/06/14 – 06/25/14	< 4.48	< 4.67	< 4.46	< 5.11	< 238	< 0.40
07/02/14 – 07/31/14	< 3.02	< 3.30	< 3.23	< 3.01	< 215	< 0.81
08/08/14 – 08/27/14	< 4.42	< 4.19	< 4.12	< 5.18	< 246	< 0.85
09/03/14 – 09/24/14	< 4.24	< 5.15	< 5.00	< 5.14	< 205	< 0.66
09/30/14 – 10/29/14	< 2.48	< 2.50	< 2.38	< 2.28	< 266	< 0.88
11/07/14 – 12/03/14	< 2.37	< 2.11	< 2.13	< 2.06	< 159	< 0.74
12/12/14 – 12/30/14	< 5.43	< 4.58	< 5.03	< 5.04	< 260	< 0.72

Stouts Creek (OCSW03)

Collection Date	Co-58	Co-60	Cs-134	Cs-137	H-3	I-131
04/16/14	< 4.02	< 5.24	< 3.13	< 4.93	< 155	< 0.52
09/29/14	< 2.08	< 2.66	< 2.26	< 2.16	< 222	< 0.76

Oyster Creek Discharge Canal (OCSW04)

Collection Date	Co-58	Co-60	Cs-134	Cs-137	H-3	I-131
01/08/14 - 01/28/14	< 4.45	< 4.42	< 4.48	< 4.12	< 221	< 0.82
02/06/14 - 02/27/14	< 1.88	< 1.83	< 1.96	< 1.88	< 221	< 0.83
03/05/14 - 03/26/14	< 4.92	< 4.69	< 3.88	< 4.22	< 188	< 0.80
04/02/14 - 04/30/14	< 2.74	< 2.86	< 3.13	< 3.03	< 194	< 0.86
05/07/14 - 05/28/14	< 3.88	< 4.50	< 5.06	< 4.31	< 221	< 0.62
06/06/14 – 06/25/14	< 3.44	< 3.98	< 3.47	< 4.67	< 239	< 0.39
07/02/14 – 07/30/14	< 3.78	< 4.15	< 3.83	< 3.99	< 213	< 0.91
08/08/14 – 08/27/14	< 5.36	< 4.97	< 4.77	< 5.42	< 241	< 0.85
09/03/14 – 09/24/14	< 5.33	< 3.78	< 4.39	< 5.11	< 207	< 0.65
09/29/14 – 10/29/14	< 2.41	< 2.26	< 2.29	< 2.16	< 265	< 0.90
11/07/14 – 12/03/14	< 2.18	< 2.12	< 1.97	< 1.92	< 156	< 0.92
12/10/14 – 12/30/14	< 5.93	< 5.00	< 5.23	< 5.53	< 263	< 0.92

Results in picoCuries per Liter (pCi/L)

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2014 Radiological Environmental Monitoring Program

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

Delaware River – Near Plant Discharge Outfall Area – Salem NGS (AISW01)

Collection Date	Co-58	Co-60	Cs-134	Cs-137	H-3	I-131
01/13/14	< 5.52	< 5.65	< 4.76	< 4.49	< 228	< 0.85
02/23/14	< 4.11	< 5.42	< 4.27	< 4.14	< 233	< 0.75
03/05/14	< 4.09	< 5.43	< 4.45	< 4.52	2,450 ± 528*	< 0.77
04/10/14	< 5.46	< 5.79	< 6.46	< 4.97	< 156	< 0.88
05/07/14	< 1.73	< 1.71	< 1.82	< 1.67	< 220	< 0.75
06/02/14	< 2.37	< 2.09	< 2.27	< 2.26	< 230	< 0.81
07/09/14	< 2.90	< 3.82	< 3.53	< 3.09	< 241	< 0.85
08/05/14	< 2.38	< 1.74	< 1.89	< 1.88	< 255	< 5.26 **
09/12/14	< 1.78	< 2.11	< 1.88	< 1.92	< 234	< 0.60
10/09/14	< 3.81	< 4.12	< 4.17	< 4.42	< 246	< 0.75
11/05/14	< 3.30	< 3.80	< 3.22	< 3.06	< 215	< 0.71
12/01/14	< 2.68	< 2.64	< 2.74	< 2.68	< 269	< 0.49

West Bank – Delaware River (AISW02)

Collection Date	Co-58	Co-60	Cs-134	Cs-137	H-3	I-131
01/13/14	< 5.10	< 5.07	< 4.92	< 4.95	< 229	< 0.81
02/23/14	< 5.77	< 7.93	< 5.80	< 7.19	< 233	< 0.65
03/05/14	< 3.00	< 3.72	< 3.77	< 2.95	< 219	< 0.81
04/10/14	< 3.64	< 5.28	< 5.35	< 3.50	< 161	< 0.89
05/07/14	< 1.97	< 1.65	< 1.79	< 1.76	< 222	< 0.64
06/02/14	< 2.58	< 2.58	< 2.50	< 2.39	< 222	< 0.84
07/09/14	< 3.87	< 3.95	< 3.92	< 3.93	< 236	< 0.84
08/05/14	< 2.01	< 1.52	< 1.58	< 1.45	< 257	< 4.14**
09/12/14	< 2.01	< 2.37	< 2.31	< 2.22	< 253	< 0.93
10/09/14	< 4.53	< 3.34	< 4.36	< 4.51	< 247	< 0.77
11/05/14	< 4.12	< 4.58	< 4.72	< 4.47	< 219	< 0.76
12/01/14	< 4.12	< 4.17	< 3.69	< 4.65	< 270	< 0.51

Results in picoCuries per Liter (pCi/L)

*The Plant Discharge Outfall Area (AISW01) is where liquid radioactive effluents from the Salem Station are discharged into the Delaware River. The Salem station releases liquid effluent on a routine basis below limits set forth in Federal Guidance 10CFR20, Appendix B. The New Jersey Surface Water Quality Standard for tritium is 20,000 pCi/L . The reading of 2,450 pCi/L is approximately 12 percent of the applicable limit.

** 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 I-131 decay due to its short half-life (8 days)

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2014 Radiological Environmental Monitoring Program

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

Oyster Creek Administration Building Onsite (OCWW01)

Collection Date	Co-58	Co-60	Cs-134	Cs-137	H-3	I-131
01/21/14	< 3.21	< 3.11	< 3.56	< 3.97	< 227	< 0.85
04/22/14	< 4.73	< 5.69	< 5.10	< 6.27	< 172	< 0.78
07/22/14	< 4.91	< 5.54	< 5.69	< 5.58	< 228	< 0.84
10/15/14	< 2.58	< 2.55	< 2.52	< 2.49	< 248	< 0.88

Forked River Marina (OCWW02)

Collection Date	Co-58	Co-60	Cs-134	Cs-137	H-3	I-131
01/21/14	< 2.76	< 3.16	< 3.00	< 3.05	< 226	< 0.93
04/22/14	< 3.86	< 4.61	< 4.91	< 4.27	< 169	< 0.83
07/22/14	< 4.20	< 4.37	< 4.13	< 4.93	< 227	< 0.87
10/21/14	< 1.81	< 1.89	< 2.18	< 2.20	< 250	< 0.71

Results in picoCuries per Liter (pCi/L)

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2014 Radiological Environmental Monitoring Program

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

Elsinboro School (AIWW01)

Collection Date	Co-58	Co-60	Cs-134	Cs-137	H-3	I-131
01/21/14	< 3.71	< 3.42	< 3.57	< 3.38	< 229	< 0.94
04/22/14	< 4.33	< 5.57	< 5.34	< 6.68	< 172	< 0.87
07/22/14	< 6.14	< 5.47	< 5.26	< 5.36	< 231	< 0.84
10/21/14	< 1.99	< 2.26	< 2.02	< 2.12	< 245	< 0.76

Lower Alloways Creek Police Station (AIWW02)

Collection Date	Co-58	Co-60	Cs-134	Cs-137	H-3	I-131
01/21/14	< 2.74	< 3.14	< 2.94	< 2.83	< 226	< 0.91
04/22/14	< 4.78	< 4.80	< 5.40	< 5.46	< 173	< 0.85
07/22/14	< 4.54	< 6.29	< 6.14	< 5.90	< 236	< 0.86
10/21/14	< 2.15	< 2.19	< 2.34	< 2.61	< 240	< 0.79

Salem Processing Center (AIWW03)

Collection Date	Co-58	Co-60	Cs-134	Cs-137	H-3	I-131
01/21/14	< 2.99	< 3.38	< 3.57	< 2.79	< 229	< 0.83
04/22/14	< 4.98	< 5.96	< 5.38	< 5.62	< 165	< 0.78
07/22/14	< 4.91	< 5.22	< 5.64	< 5.10	< 239	< 0.88
10/21/14	< 2.16	< 2.18	< 2.28	< 2.34	< 245	< 0.71

Lower Alloways Creek School (AIWW04)

Collection Date	Co-58	Co-60	Cs-134	Cs-137	H-3	I-131
01/21/14	< 4.23	< 5.05	< 4.45	< 3.64	< 230	< 0.89
04/22/14	< 4.17	< 4.42	< 4.55	< 5.05	< 175	< 0.84
07/22/14	< 3.57	< 5.11	< 4.51	< 4.80	< 231	< 0.82
10/21/14	< 2.23	< 2.34	< 2.34	< 2.70	< 240	< 0.76

Results in picoCuries per Liter (pCi/L)

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2014 Radiological Environmental Monitoring Program

BNE Background Location
Thermoluminescent Dosimetry Data
Quarterly Results

		1st Quarter		2nd Quarter		3rd Quarter		4th Quarter	
Station	**Location**	**Result**	**%CV**	**Result**	**%CV**	**Result**	**%CV**	**Result**	**%CV**
CO01	BNE Office, Arctic Parkway, Ewing, NJ	13.0	2.2	13.1	2.4	12.9	1.3	14.2	3.2
CO02	Brendan T. Byrne State Forest, New Lisbon, NJ	10.3	1.8	9.4	1.5	9.1	1.4	9.8	2.2

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 90 days (a standard quarter)

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2014 Radiological Environmental Monitoring Program

Oyster Creek
Thermoluminescent Dosimetry Data
Quarterly Results

		1st Quarter		2nd Quarter		3rd Quarter		4th Quarter	
Station	**Location**	**Result**	**%CV**	**Result**	**%CV**	**Result**	**%CV**	**Result**	**%CV**
1	Ocean County Vocational School	9.2	2.3	8.5	2.1	8.6	3.7	8.6	2.8
2	Ocean Twp. Municipal Building	10.4	2.0	9.5	1.1	9.4	3.1	9.4	1.0
3	Sewage Pumping Station, Forked River	11.1	2.0	10.6	4.7	10.1	2.2	10.4	2.2
4	Twin River Station, Forked River	9.5	1.8	8.8	1.8	8.9	2.8	9.6	2.3
5	Sewage Pumping Station, Ocean Twp.	10.2	2.5	9.8	2.0	9.3	4.3	10.1	1.9
6	Oyster Creek, Gate #2, Forked River	10.1	2.5	9.6	2.4	10.8	6.5	10.8	2.9
7	Finninger Farm, Forked River	9.3	3.5	8.4	3.2	8.3	5.7	8.9	1.2
8	Ocean Co. Memorial Cemetery, Waretown	9.4	1.0	8.6	3.5	8.3	2.3	9.1	2.9
9	Oyster Creek Building 17, Forked River	10.2	0.6	9.5	1.4	9.2	2.0	10.3	1.9
10	Sheffield & Derby Rd, Forked River	9.6	1.6	9.1	2.7	9.1	2.2	9.8	2.7
11	Lakeside Drive, Forked River	10.2	3.0	9.7	2.8	9.8	4.4	10.0	4.0
12	Forked River Game Farm, Forked River	9.9	4.4	9.5	3.7	8.9	2.5	9.8	2.4

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 90 days (a standard quarter)

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2014 Radiological Environmental Monitoring Program

Oyster Creek
Thermoluminescent Dosimetry Data
Quarterly Results

		1st Quarter		2nd Quarter		3rd Quarter		4th Quarter	
Station	**Location**	**Result**	**%CV**	**Result**	**%CV**	**Result**	**%CV**	**Result**	**%CV**
13	Restrooms, Lakeside Dr., Forked River	10.0	4.8	9.1	2.9	9.2	5.4	9.7	3.7
14	Sands Pt. Park, Dock Ave., Waretown	10.9	2.3	10.1	1.3	10.2	4.8	10.9	1.3
15	Recreation Center, Waretown	9.5	1.9	9.1	1.9	8.6	5.4	9.8	6.9
16	North Access Rd., Forked River	11.2	6.6	9.6	2.8	9.8	1.9	10.7	3.0
20	Third Avenue, Barnegat Light	9.2	1.8	8.3	3.8	8.2	3.6	9.0	4.2
21	Rose Hill Road & Barnegat Blvd	10.2	3.1	9.6	2.5	9.1	2.8	10.1	3.9
22	Bay Way & Clairmore Avenue	10.1	2.1	9.5	3.6	9.1	3.8	10.4	4.6
23	Island Beach State Park, Parking Lot A5	9.2	1.8	8.6	1.5	8.5	1.7	9.3	4.3

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 90 days (a standard quarter).

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2014 Radiological Environmental Monitoring Program

Salem/Hope Creek
Thermoluminescent Dosimetry Data
Quarterly Results

		1st Quarter		2nd Quarter		3rd Quarter		4th Quarter	
Station	**Location**	**Result**	**%CV**	**Result**	**%CV**	**Result**	**%CV**	**Result**	**%CV**
1	Access Road – Security Checkpoint	11.5	3.1	10.9	2.5	10.5	3.5	11.5	4.4
2	Poplar Road, Lower Alloways	11.4	0.8	11.2	2.7	11.0	2.5	11.6	2.9
3	Money and Eagle Island Road	12.8	2.7	12.3	2.6	12.2	2.4	12.4	1.9
4	Ft. Elfsborg / Hancocks – East	13.4	0.8	13.0	2.0	12.8	1.8	13.2	6.1
5	Ft. Elfsborg / Hancocks – West	16.5	4.9	16.6	3.1	16.1	2.4	17.1	2.3
6	Stathems Neck Road	11.9	4.8	11.3	3.5	11.3	5.5	12.1	1.5
7	Stow Neck Road Lower Alloways	10.2	2.9	9.9	2.9	9.5	4.6	9.9	2.8
8	Alloways Creek Neck Road - Middle	9.9	3.6	9.6	2.9	9.1	3.4	9.6	2.3
9	Alloways Creek Neck Road - North	12.8	2.5	12.5	3.3	12.5	4.5	12.7	2.6
10	Abbotts Farm Road	10.0	2.0	9.0	3.8	9.2	2.7	9.9	0.8
11	PSEG Education Center/EOF	10.9	2.3	10.9	3.6	10.4	4.3	10.8	3.3

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 90 days (a standard quarter).
* TLD badges missing from site

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2014 Radiological Environmental Monitoring Program

Comparison of NJDEP and Mirion Technologies Thermoluminescent Dosimetry Data for Oyster Creek

Quarterly Results for Co-located Dosimeters

		1st Quarter				2nd Quarter				3rd Quarter				4th Quarter			
		NJDEP		Global		NJDEP		Global		NJDEP		Global		NJDEP		Global	
Station	**Location**	**Result**	**%CV**	**Result**	**%CV**	**Result**	**%CV**	**Result**	**%CV**	**Result**	**%CV**	**Result**	**%CV**	**Result**	**%CV**	**Result**	**%CV**
5	Sewage Pump. Station, Ocean Township	10.2	2.5	11.0	3.4	9.8	2.0	9.9	6.1	9.3	4.3	10.6	4.0	10.1	1.9	10.3	2.9
7	Finninger Farm,OCNGS Forked River	9.3	3.5	9.3	3.8	8.4	3.2	8.9	4.2	8.3	5.7	9.3	5.6	8.9	1.2	9.3	5.7
13	Restrooms, Lakeside Dr. Forked River	10.0	4.8	10.2	3.8	9.1	2.9	9.6	4.9	9.2	5.4	10.1	3.5	9.7	3.7	10.2	0.0
21	Rose Hill and Barnegat Rd Barnegat Twp.	10.2	3.1	10.5	2.8	9.6	2.5	10.6	0.0	9.1	2.8	10.6	4.0	10.1	3.9	10.0	3.0

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 90 days (a standard quarter)

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2014 Radiological Environmental Monitoring Program

Comparison of NJDEP and Mirion Technologies Thermoluminescent Dosimetry Data for Salem/Hope Creek

Quarterly Results for Co-located Dosimeters

		1st Quarter				2nd Quarter				3rd Quarter				4th Quarter			
		NJDEP		Global		NJDEP		Global		NJDEP		Global		NJDEP		Global	
Station	**Location**	**Result**	**%CV**	**Result**	**%CV**	**Result**	**%CV**	**Result**	**%CV**	**Result**	**%CV**	**Result**	**%CV**	**Result**	**%CV**	**Result**	**%CV**
1	Access Road – Security Checkpoint	11.5	3.1	11.8	2.5	10.9	2.5	11.2	3.5	10.5	3.5	11.7	2.4	11.5	4.4	11.2	4.2
2	Poplar Road, Lower Alloways	11.4	0.8	12.7	3.7	11.2	2.7	10.9	3.6	11.0	2.5	12.1	3.1	11.6	2.9	12.0	2.6
3	Money and Eagle Island Roads	12.8	2.7	13.2	3.1	12.3	2.6	12.7	4.7	12.2	2.4	14.0	2.8	12.4	1.9	13.7	3.1
5	Ft. Elfsborg/ Hancocks - West	16.5	4.9	17.5	3.5	16.6	3.1	16.8	2.5	16.1	2.4	17.5	2.8	17.1	2.3	17.2	4.3

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 90 days (a standard quarter)

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2014 Radiological Environmental Monitoring Program

Comparison of NJDEP and Mirion Technologies Thermoluminescent Dosimetry for Salem/Hope Creek

Quarterly Results for Co-located Dosimeters

		1st Quarter				2nd Quarter				3rd Quarter				4th Quarter			
		NJDEP		Global		NJDEP		Global		NJDEP		Global		NJDEP		Global	
Station	**Location**	**Result**	**%CV**	**Result**	**%CV**	**Result**	**%CV**	**Result**	**%CV**	**Result**	**%CV**	**Result**	**%CV**	**Result**	**%CV**	**Result**	**%CV**
7	Stow Neck Road-Lower Alloways	10.2	2.9	10.7	0.0	9.9	2.9	10.6	4.5	9.5	4.6	11.4	4.5	9.9	2.8	10.2	0.0
9	Alloways Creek Neck Road - North	12.8	2.5	13.5	2.3	12.5	3.3	13.2	4.9	12.5	4.5	14.0	2.8	12.7	2.6	13.5	3.0
11	PSEG Ed. Center/EOF Salem City	10.9	2.3	11.5	2.6	10.9	3.6	11.0	3.8	10.4	4.3	12.4	4.2	10.8	3.3	11.0	2.8

Results are reported in units of milliroentgens (mR)

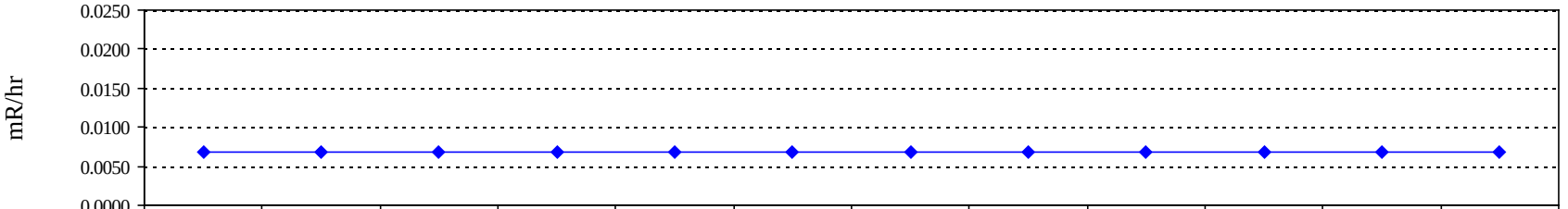
CV is the coefficient of variation; the ratio of the standard deviation to the mean, and is normally reported as a percentage

All exposures were normalized to 90 days (a standard quarter)

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2014 Radiological Environmental Monitoring Program

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

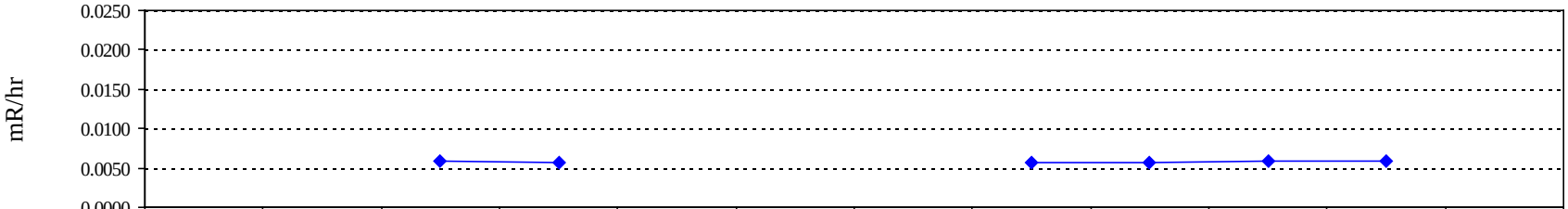
OC 1
2014 Ambient Radiation Levels



	January	February	March	April	May	June	July	August	September	October	November	December
OC-1	0.0069	0.0069	0.0069	0.0068	0.0069	0.0068	0.0069	0.0069	0.0068	0.0069	0.0069	0.0068

Month

OC 2
2014 Ambient Radiation Levels



	January	February	March	April	May	June	July	August	September	October	November	December
OC-2	No Data	No Data	0.0058	0.0057	No Data	No Data	No Data	0.0057	0.0057	0.0059	0.0059	No Data

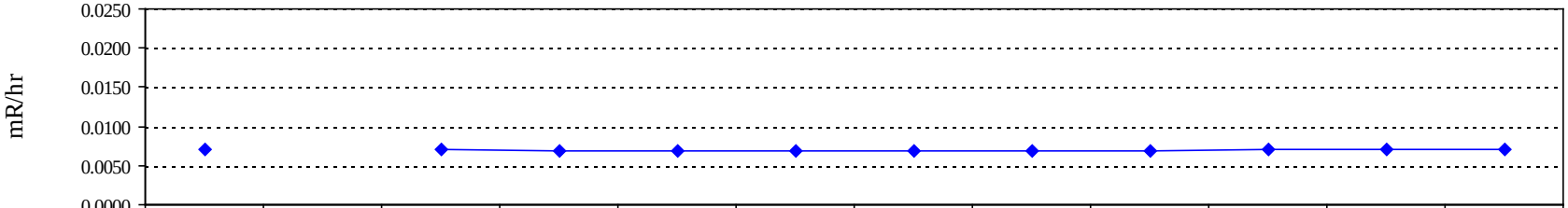
Month

Blank months indicate 'No Data Available'

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2014 Radiological Environmental Monitoring Program

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

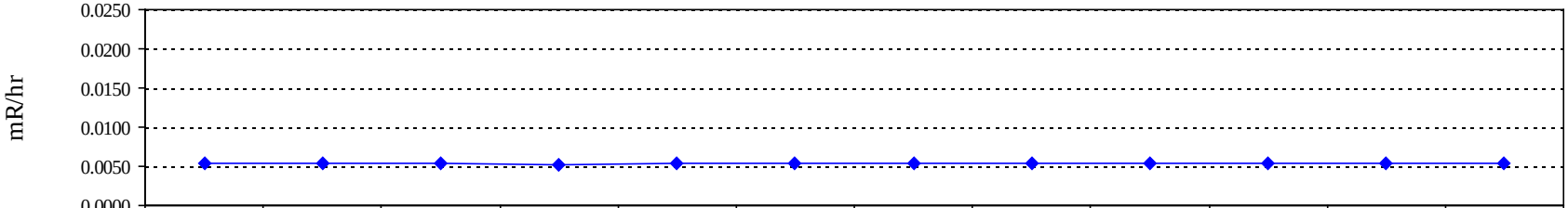
OC 3
2014 Ambient Radiation Levels



	January	February	March	April	May	June	July	August	September	October	November	December
OC-3	0.0070	No Data	0.0070	0.0069	0.0069	0.0068	0.0069	0.0068	0.0068	0.0070	0.0071	0.0070

Month

OC 04
2014 Ambient Radiation Levels



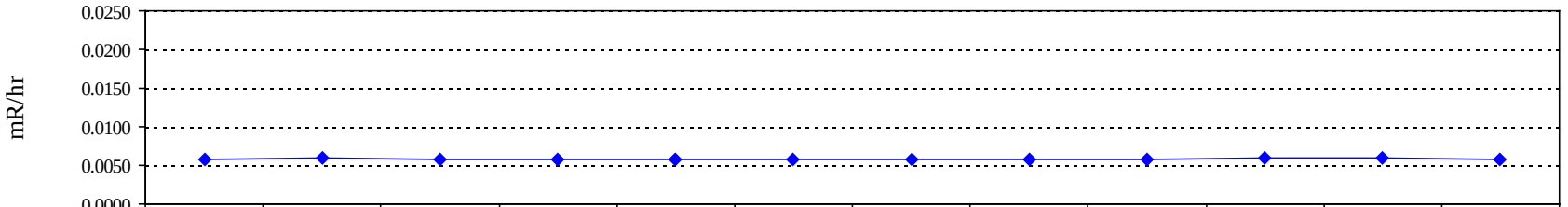
	January	February	March	April	May	June	July	August	September	October	November	December
OC-4	0.0053	0.0053	0.0053	0.0052	0.0053	0.0053	0.0053	0.0053	0.0053	0.0054	0.0054	0.0053

Month

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2014 Radiological Environmental Monitoring Program

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

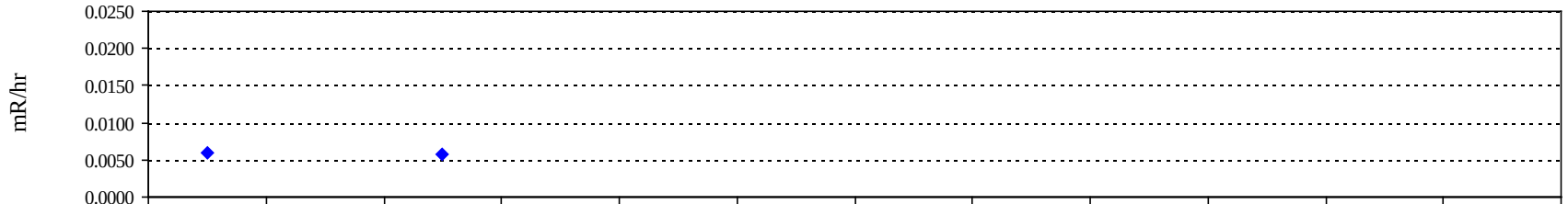
OC 5
2014 Ambient Radiation Levels



	January	February	March	April	May	June	July	August	September	October	November	December
OC-5	0.0058	0.0059	0.0058	0.0058	0.0058	0.0058	0.0058	0.0058	0.0058	0.0059	0.0059	0.0058

Month

OC 6
2014 Ambient Radiation Levels



	January	February	March	April	May	June	July	August	September	October	November	December
OC-6	0.0060	No Data	0.0058	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data

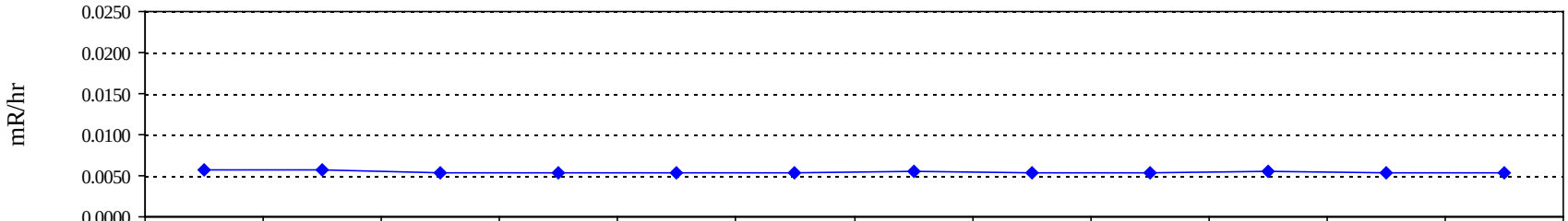
Month

Blank months indicate "No Data Available"

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2014 Radiological Environmental Monitoring Program

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

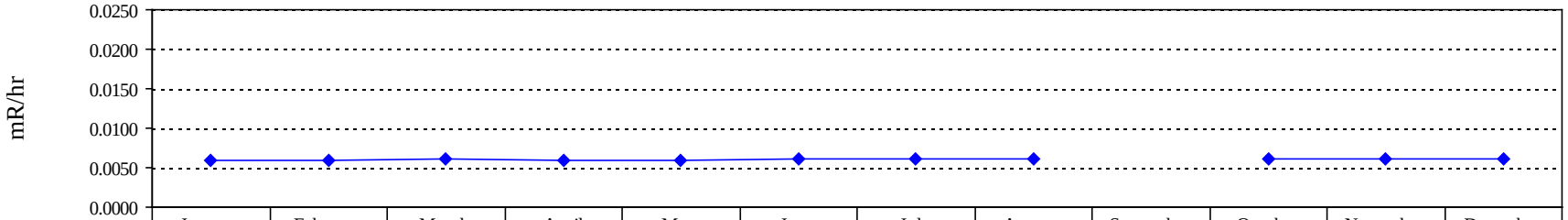
OC 7
2014 Ambient Radiation Levels



	January	February	March	April	May	June	July	August	September	October	November	December
OC-7	0.0057	0.0058	0.0054	0.0053	0.0054	0.0054	0.0055	0.0054	0.0054	0.0055	0.0054	0.0053

Month

OC 9
2014 Ambient Radiation Levels



	January	February	March	April	May	June	July	August	September	October	November	December
OC-09	0.0060	0.0060	0.0061	0.0060	0.0060	0.0061	0.0061	0.0061	No Data	0.0061	0.0061	0.0061

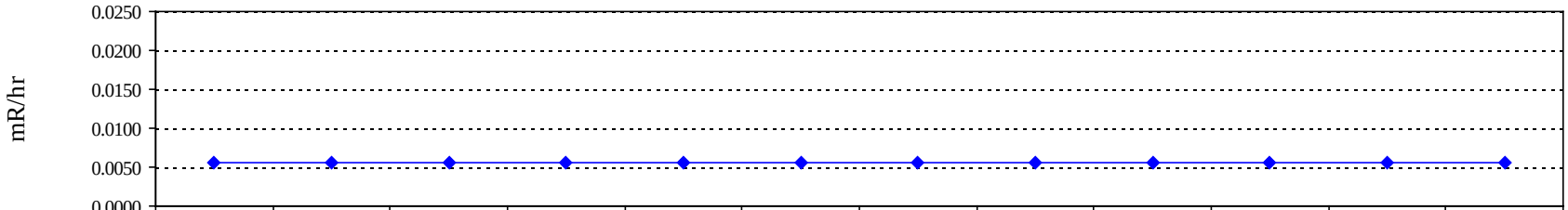
Month

Blank months indicate "No Data Available". OC-8 was not operational in 2014; therefore no data graph is available

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2014 Radiological Environmental Monitoring Program

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

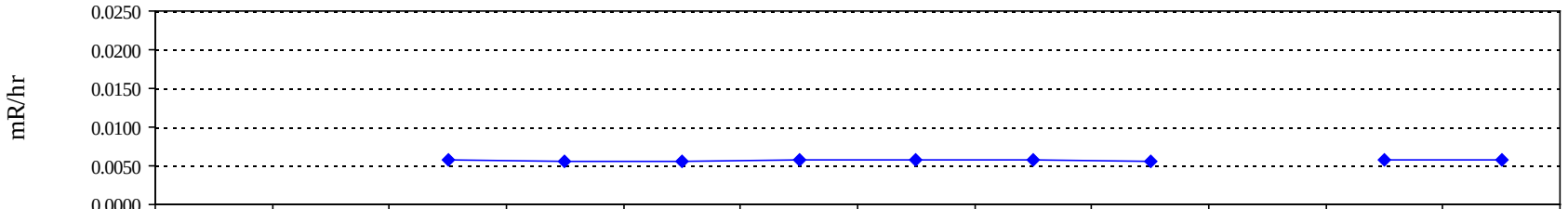
OC 10
2014 Ambient Radiation Levels



	January	February	March	April	May	June	July	August	September	October	November	December
OC-10	0.0056	0.0056	0.0056	0.0055	0.0055	0.0055	0.0056	0.0055	0.0055	0.0056	0.0056	0.0055

Month

OC 11
2014 Ambient Radiation Levels



	January	February	March	April	May	June	July	August	September	October	November	December
OC-11	No Data	No Data	0.0058	0.0056	0.0056	0.0057	0.0057	0.0057	0.0056	No Data	0.0057	0.0057

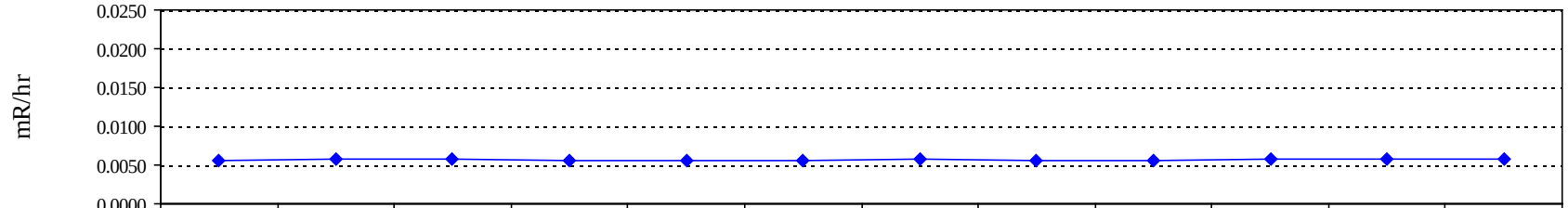
Month

Blank months indicate "No Data Available"

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2014 Radiological Environmental Monitoring Program

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

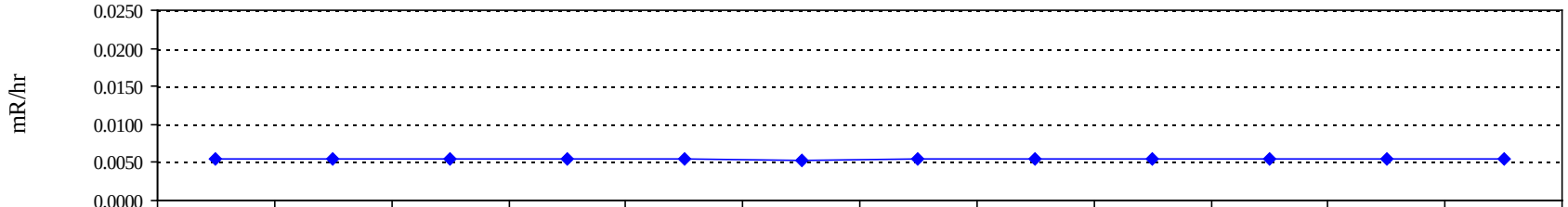
OC 12
2014 Ambient Radiation Levels



	January	February	March	April	May	June	July	August	September	October	November	December
OC-12	0.0056	0.0057	0.0057	0.0056	0.0056	0.0056	0.0057	0.0056	0.0056	0.0057	0.0057	0.0057

Month

OC 13
2014 Ambient Radiation Levels



	January	February	March	April	May	June	July	August	September	October	November	December
OC-13	0.0054	0.0055	0.0054	0.0054	0.0054	0.0053	0.0054	0.0054	0.0054	0.0055	0.0055	0.0054

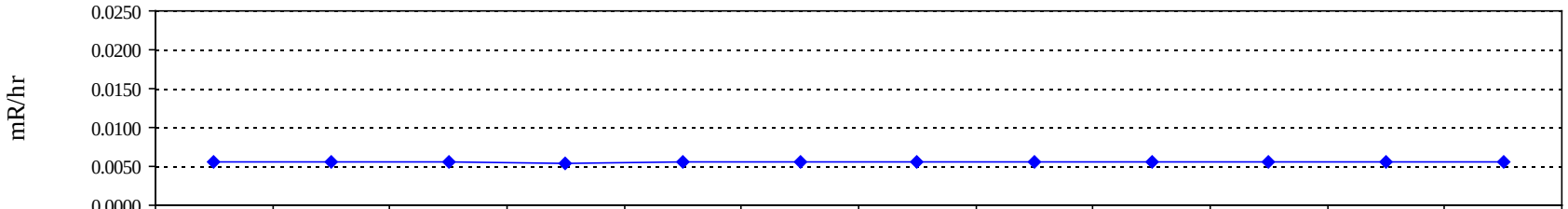
Month

Blank months indicate "No Data Available"

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2014 Radiological Environmental Monitoring Program

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

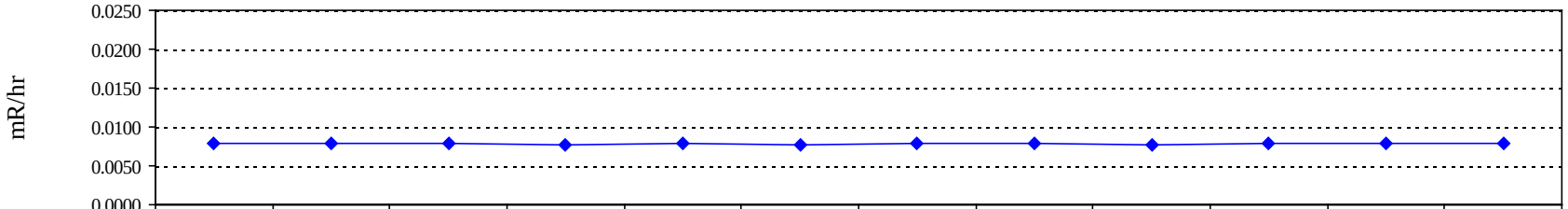
OC 14
2014 Ambient Radiation Levels



	January	February	March	April	May	June	July	August	September	October	November	December
OC-14	0.0055	0.0055	0.0055	0.0054	0.0055	0.0055	0.0056	0.0055	0.0055	0.0056	0.0055	0.0055

Month

OC 15
2014 Ambient Radiation Levels



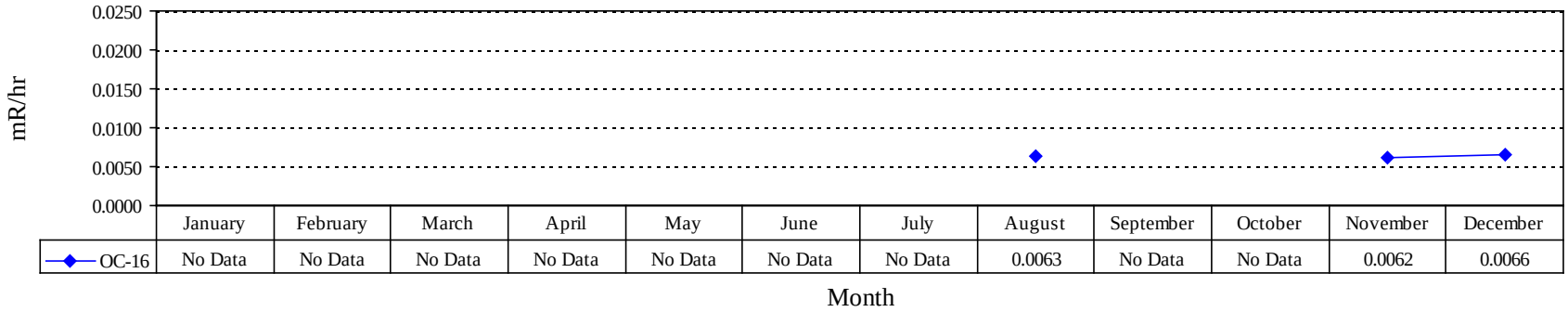
	January	February	March	April	May	June	July	August	September	October	November	December
OC-15	0.0078	0.0078	0.0078	0.0077	0.0078	0.0077	0.0078	0.0078	0.0077	0.0079	0.0078	0.0078

Month

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2014 Radiological Environmental Monitoring Program

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

OC 16
2014 Ambient Radiation Levels



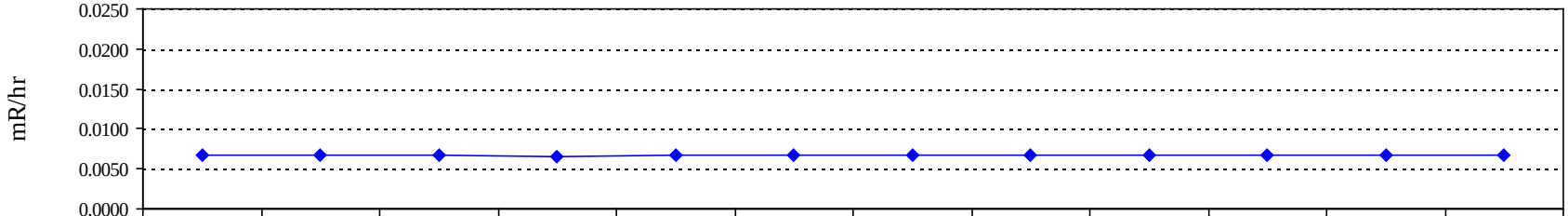
	January	February	March	April	May	June	July	August	September	October	November	December
OC-16	No Data	No Data	No Data	No Data	No Data	No Data	No Data	0.0063	No Data	No Data	0.0062	0.0066

Blank months indicate "No Data Available"

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2014 Radiological Environmental Monitoring Program

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

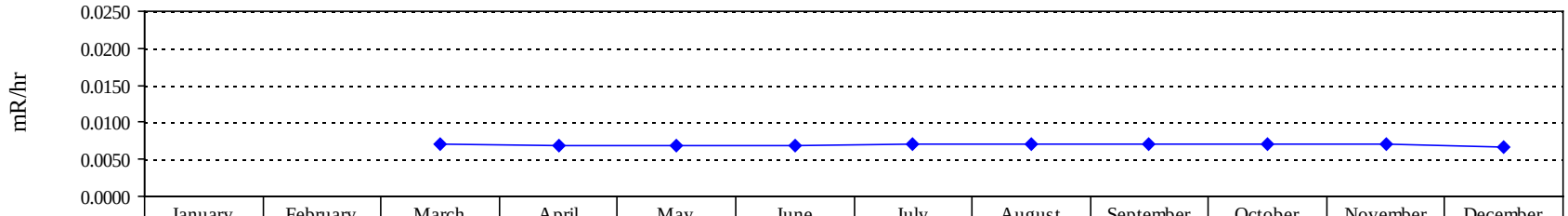
AI 1
2014 Ambient Radiation Levels



	January	February	March	April	May	June	July	August	September	October	November	December
AI-1	0.0067	0.0067	0.0067	0.0066	0.0067	0.0067	0.0068	0.0068	0.0068	0.0068	0.0068	0.0067

Month

AI 2
2014 Ambient Radiation Levels



	January	February	March	April	May	June	July	August	September	October	November	December
AI-2	No Data	No Data	0.0070	0.0069	0.0069	0.0069	0.0071	0.0070	0.0070	0.0071	0.0071	0.0067

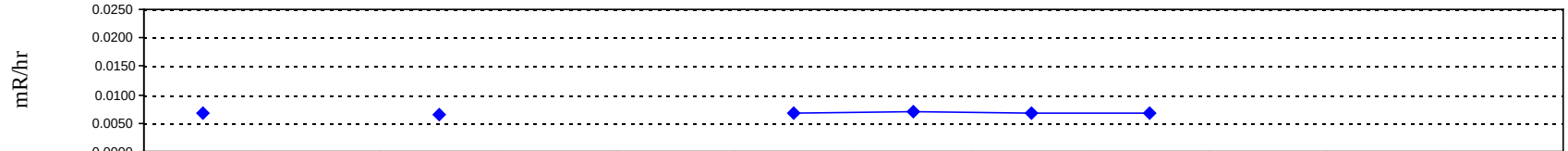
Month

Blank months indicate 'No Data Available'

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2014 Radiological Environmental Monitoring Program

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

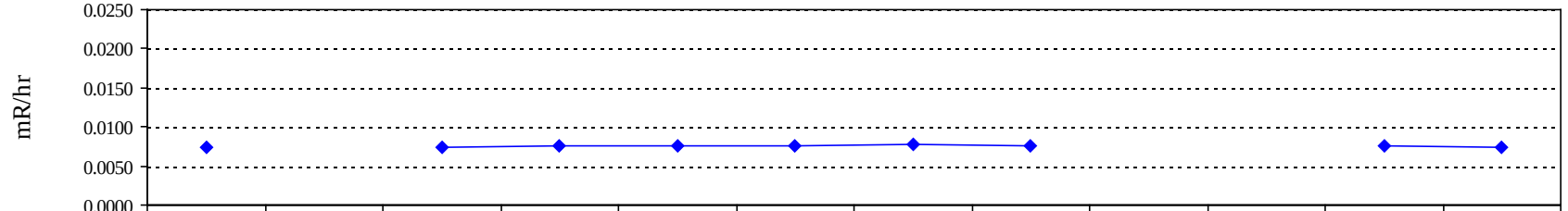
AI 3
2014 Ambient Radiation Levels



	January	February	March	April	May	June	July	August	September	October	November	December
AI-3	0.0067	No Data	0.0066	No Data	No Data	0.0068	0.007	0.0069	0.0068	No Data	No Data	No Data

Month

AI 4
2014 Ambient Radiation Levels



	January	February	March	April	May	June	July	August	September	October	November	December
AI-4	0.0074	No Data	0.0074	0.0075	0.0075	0.0076	0.0077	0.0076	No Data	No Data	0.0075	0.0074

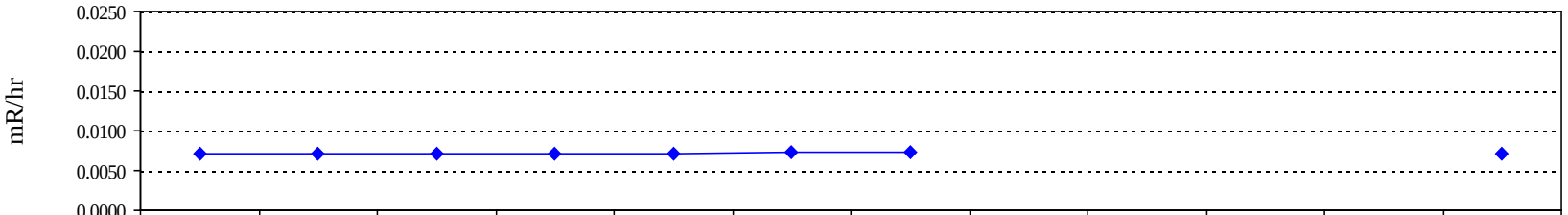
Blank months indicate 'No Data Available'

Month

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2014 Radiological Environmental Monitoring Program

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

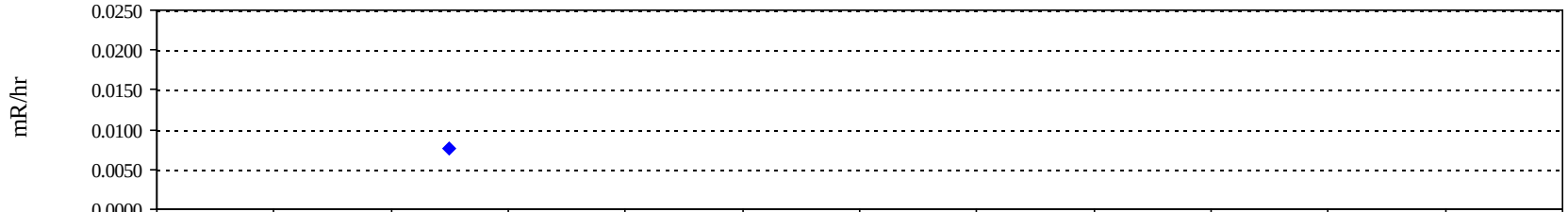
AI 5
2014 Ambient Radiation Levels



	January	February	March	April	May	June	July	August	September	October	November	December
AI-5	0.0071	0.0071	0.0072	0.0072	0.0072	0.0073	0.0074	No Data	No Data	No Data	No Data	0.0071

Month

AI 6
2014 Ambient Radiation Levels



	January	February	March	April	May	June	July	August	September	October	November	December
AI-06	No Data	No Data	0.0076	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data

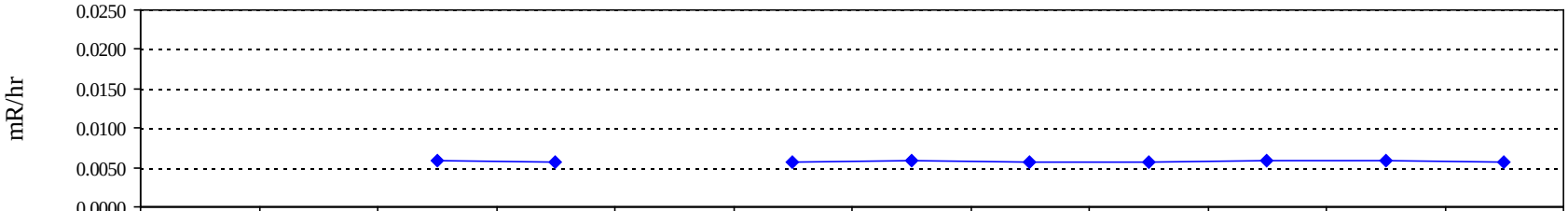
Month

Blank months indicate 'No Data Available'

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2014 Radiological Environmental Monitoring Program

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

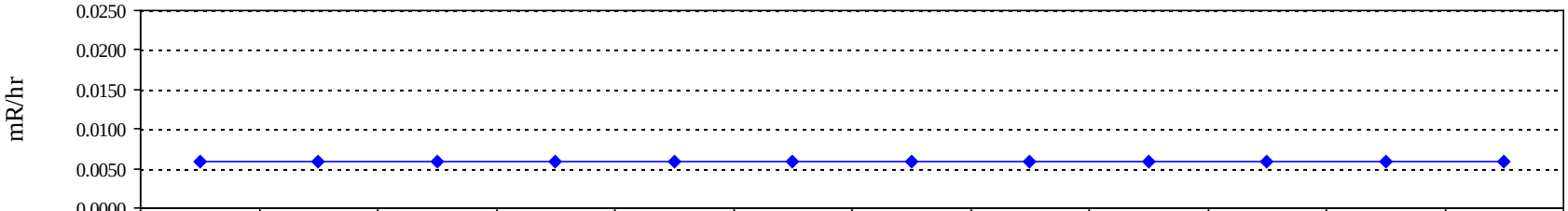
AI 7
2014 Ambient Radiation Levels



	January	February	March	April	May	June	July	August	September	October	November	December
AI-7	No Data	No Data	0.0058	0.0057	No Data	0.0057	0.0058	0.0057	0.0057	0.0058	0.0058	0.0057

Month

AI 8
2014 Ambient Radiation Levels



	January	February	March	April	May	June	July	August	September	October	November	December
AI-8	0.0058	0.0058	0.0059	0.0058	0.0058	0.0058	0.0058	0.0058	0.0058	0.0059	0.0059	0.0058

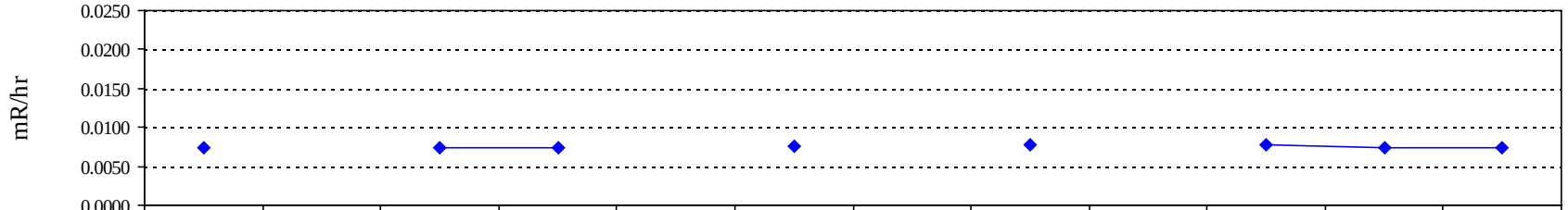
Month

Blank months indicate 'No Data Available'

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2014 Radiological Environmental Monitoring Program

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

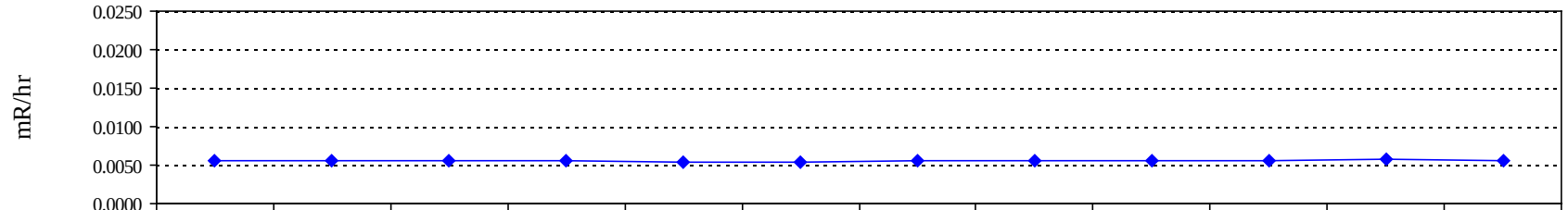
AI 9
2014 Ambient Radiation Levels



	January	February	March	April	May	June	July	August	September	October	November	December
AI-9	0.0073	No Data	0.0074	0.0074	No Data	0.0075	No Data	0.0077	No Data	0.0077	0.0074	0.0074

Month

AI 10
2014 Ambient Radiation Levels



	January	February	March	April	May	June	July	August	September	October	November	December
AI-10	0.0056	0.0055	0.0056	0.0055	0.0053	0.0053	0.0056	0.0055	0.0055	0.0056	0.0057	0.0056

Month

Blank months indicate 'No Data Available'