**New Jersey Department of Environmental Protection**
**Bureau of Nuclear Engineering**
**2020 Radiological Environmental Monitoring Program**

**BNE Background Locations**
**Results of Analyses for Iodine-131 in Bi-Weekly Air Samples**

## BNE Office (COAI01)

| Collection Period | | | I-131 ($pCi/m^3$) |
|---|---|---|---|
| 12/30/19 | - | 01/14/20 | < 0.005 |
| 01/14/20 | - | 01/29/20 | < 0.004 |
| 01/29/20 | - | 02/12/20 | < 0.014 |
| 02/12/20 | - | 02/26/20 | < 0.006 |
| 02/26/20 | - | 03/11/20 | < 0.004 |
| 03/11/20 | - | 03/25/20 | < 0.004 |
| 03/25/20 | - | 04/08/20 | < 0.004 |
| 04/08/20 | - | 04/22/20 | < 0.005 |
| 04/22/20 | - | 05/06/20 | < 0.006 |
| 05/06/20 | - | 05/20/20 | < 0.005 |
| 05/20/20 | - | 06/03/20 | < 0.003 |
| 06/03/20 | - | 06/17/20 | < 0.004 |
| 06/17/20 | - | 07/01/20 | < 0.005 |
| 07/01/20 | - | 07/15/20 | < 0.006 |
| 07/15/20 | - | 07/29/20 | < 0.008 |
| 07/29/20 | - | 08/11/20 | < 0.005 |
| 08/11/20 | - | 08/26/20 | < 0.004 |
| 08/26/20 | - | 09/09/20 | < 0.004 |
| 09/09/20 | - | 09/23/20 | < 0.005 |
| 09/23/20 | - | 10/07/20 | < 0.004 |
| 10/07/20 | - | 10/21/20 | < 0.007 |
| 10/21/20 | - | 11/04/20 | < 0.005 |
| 11/04/20 | - | 11/18/20 | < 0.003 |
| 11/18/20 | - | 12/02/20 | < 0.009 |
| 12/02/20 | - | 12/16/20 | < 0.005 |
| 12/16/20 | - | 12/30/20 | < 0.005 |

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

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**BNE Background Locations**
**Results of Analyses for Iodine-131 in Bi-Weekly Air Samples**

**Brendan T. Byrne State Forest (COAI02)**

| Collection Period | | | I-131 ($pCi/m^3$) |
|---|---|---|---|
| 12/30/19 | - | 01/14/20 | < 0.002 |
| 01/14/20 | - | 01/29/20 | < 0.003 |

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

Note: The collection and analysis of Air Iodine has been discontinued as of January 29, 2020, because the Oyster Creek nuclear plant has been in decommissioning since September 25, 2018, and has not released I-131 since that time. The half-life of I-131 is 8.02 days.

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**Oyster Creek**
**Results of Analyses for Iodine-131 in Bi-Weekly Air Samples**

**Waretown Municipal Building (OCAI01)**

| Collection Period | | | I-131 ($pCi/m^3$) |
|---|---|---|---|
| 12/30/19 | - | 01/14/20 | < 0.005 |
| 01/14/20 | - | 01/29/20 | < 0.004 |

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

Note: The collection and analysis of Air Iodine has been discontinued as of January 29, 2020, because the Oyster Creek nuclear plant has been in decommissioning since September 25, 2018, and has not released I-131 since that time. The half-life of I-131 is 8.02 days.

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**Oyster Creek**
**Results of Analyses for Iodine-131 in Bi-Weekly Air Samples**

**Sands Point Harbor (OCAI02)**

| Collection Period | | | I-131 ($pCi/m^3$) |
|---|---|---|---|
| 12/30/19 | - | 01/14/20 | < 0.005 |
| 01/14/20 | - | 01/29/20 | < 0.005 |

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

Note: The collection and analysis of Air Iodine has been discontinued as of January 29, 2020, because the Oyster Creek nuclear plant has been in decommissioning since September 25, 2018, and has not released I-131 since that time. The half-life of I-131 is 8.02 days.

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**Oyster Creek**
**Results of Analyses for Iodine-131 in Bi-Weekly Air Samples**

**Forked River Marina (OCAI03)**

| Collection Period | | | I-131 ($pCi/m^3$) |
|---|---|---|---|
| 12/30/19 | - | 01/14/20 | < 0.005 |
| 01/14/20 | - | 01/29/20 | < 0.004 |

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

Note: The collection and analysis of Air Iodine has been discontinued as of January 29, 2020, because the Oyster Creek nuclear plant has been in decommissioning since September 25, 2018, and has not released I-131 since that time. The half-life of I-131 is 8.02 days.

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**Oyster Creek**
**Results of Analyses for Iodine-131 in Bi-Weekly Air Samples**

**Lacey Township Recreation Building (OCAI04)**

| Collection Period | | | I-131 ($pCi/m^3$) |
|---|---|---|---|
| 12/30/19 | - | 01/14/20 | < 0.003 |
| 01/14/20 | - | 01/29/20 | < 0.005 |

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

Note: The collection and analysis of Air Iodine has been discontinued as of January 29, 2020, because the Oyster Creek nuclear plant has been in decommissioning since September 25, 2018, and has not released I-131 since that time. The half-life of I-131 is 8.02 days.

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**Oyster Creek**
**Results of Analyses for Iodine-131 in Bi-Weekly Air Samples**

**JCP&L Substation (OCAI05)**

| Collection Period | | | I-131 ($pCi/m^3$) |
|---|---|---|---|
| 12/30/19 | - | 01/14/20 | < 0.005 |
| 01/14/20 | - | 01/29/20 | < 0.005 |

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

Note: The collection and analysis of Air Iodine has been discontinued as of January 29, 2020, because the Oyster Creek nuclear plant has been in decommissioning since September 25, 2018, and has not released I-131 since that time. The half-life of I-131 is 8.02 days.

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**Oyster Creek**
**Results of Analyses for Iodine-131 in Weekly Air Samples**

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

| Collection Period | | | I-131 ($pCi/m^3$) |
|---|---|---|---|
| 01/02/20 | - | 01/09/20 | < 0.011 |
| 01/09/20 | - | 01/15/20 | < 0.016 |
| 01/15/20 | - | 01/22/20 | < 0.017 |
| 01/22/20 | - | 01/29/20 | < 0.016 |
| 01/29/20 | - | 02/05/20 | < 0.012 |
| 02/05/20 | - | 02/12/20 | < 0.012 |
| 02/12/20 | - | 02/19/20 | < 0.024 |

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

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

Note: The collection and analysis of Air Iodine has been discontinued as of February 19, 2020, because the Oyster Creek nuclear plant has been in decommissioning since September 25, 2018, and has not released I-131 since that time. The half-life of I-131 is 8.02 days.

**New Jersey Department of Environmental Protection**
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**Oyster Creek**
**Results of Analyses for Iodine-131 in Bi-Weekly Air Samples**

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

| Collection Period | | | I-131 ($pCi/m^3$) |
|---|---|---|---|
| 12/30/19 | - | 01/14/20 | < 0.005 |
| 01/14/20 | - | 01/29/20 | < 0.004 |

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

Note: The collection and analysis of Air Iodine has been discontinued as of January 29, 2020, because the Oyster Creek nuclear plant has been in decommissioning since September 25, 2018, and has not released I-131 since that time. The half-life of I-131 is 8.02 days.

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**Oyster Creek**
**Results of Analyses for Iodine-131 in Bi-Weekly Air Samples**

**East of US Route 9 and South of Discharge Canal Inside Fence (SE Sector) (OCAI08)**

| Collection Period | | | I-131 ($pCi/m^3$) |
|---|---|---|---|
| 12/30/19 | - | 01/14/20 | < 0.003 |
| 01/14/20 | - | 01/29/20 | < 0.006 |

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

Note: The collection and analysis of Air Iodine has been discontinued as of January 29, 2020, because the Oyster Creek nuclear plant has been in decommissioning since September 25, 2018, and has not released I-131 since that time. The half-life of I-131 is 8.02 days.

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**Salem/Hope Creek**
**Results of Analyses for Iodine-131 in Bi-Weekly Air Samples**

**Fort Elfsborg Road (AIAI01)**

| Collection Period | | | I-131 ($pCi/m^3$) |
|---|---|---|---|
| 12/30/19 | - | 01/14/20 | < 0.004 |
| 01/14/20 | - | 01/29/20 | < 0.006 |
| 01/29/20 | - | 02/12/20 | < 0.014 |
| 02/12/20 | - | 02/26/20 | < 0.005 |
| 02/26/20 | - | 03/11/20 | < 0.004 |
| 03/11/20 | - | 03/25/20 | < 0.004 |
| 03/25/20 | - | 04/08/20 | < 0.005 |
| 04/08/20 | - | 04/22/20 | < 0.004 |
| 04/22/20 | - | 05/06/20 | < 0.005 |
| 05/06/20 | - | 05/20/20 | < 0.005 |
| 05/20/20 | - | 06/03/20 | < 0.005 |
| 06/03/20 | - | 06/17/20 | < 0.005 |
| 06/17/20 | - | 07/01/20 | < 0.005 |
| 07/01/20 | - | 07/15/20 | < 0.004 |
| 07/15/20 | - | 07/29/20 | < 0.007 |
| 07/29/20 | - | 08/11/20 | < 0.004 |
| 08/11/20 | - | 08/26/20 | < 0.004 |
| 08/26/20 | - | 09/09/20 | < 0.006 |
| 09/09/20 | - | 09/23/20 | < 0.004 |
| 09/23/20 | - | 10/07/20 | < 0.004 |
| 10/07/20 | - | 10/21/20 | < 0.006 |
| 10/21/20 | - | 11/04/20 | < 0.004 |
| 11/04/20 | - | 11/18/20 | < 0.004 |
| 11/18/20 | - | 12/02/20 | < 0.007 |
| 12/02/20 | - | 12/16/20 | < 0.005 |
| 12/16/20 | - | 12/30/20 | < 0.005 |

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

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**Salem/Hope Creek**
**Results of Analyses for Iodine-131 in Bi-Weekly Air Samples**

**Plant Access Road (AIAI02)**

| Collection Period | | | I-131 ($pCi/m^3$) |
|---|---|---|---|
| 12/30/19 | - | 01/14/20 | < 0.004 |
| 01/14/20 | - | 01/29/20 | < 0.003 |
| 01/29/20 | - | 02/12/20 | < 0.013 |
| 02/12/20 | - | 02/26/20 | < 0.006 |
| 02/26/20 | - | 03/11/20 | < 0.006 |
| 03/11/20 | - | 03/25/20 | < 0.004 |
| 03/25/20 | - | 04/08/20 | < 0.004 |
| 04/08/20 | - | 04/22/20 | < 0.004 |
| 04/22/20 | - | 05/06/20 | < 0.006 |
| 05/06/20 | - | 05/20/20 | < 0.004 |
| 05/20/20 | - | 06/03/20 | < 0.004 |
| 06/03/20 | - | 06/17/20 | < 0.005 |
| 06/17/20 | - | 07/01/20 | < 0.004 |
| 07/01/20 | - | 07/15/20 | < 0.003 |
| 07/15/20 | - | 07/29/20 | < 0.007 |
| 07/29/20 | - | 08/11/20 | < 0.004 |
| 08/11/20 | - | 08/26/20 | < 0.003 |
| 08/26/20 | - | 09/09/20 | < 0.003 |
| 09/09/20 | - | 09/23/20 | < 0.004 |
| 09/23/20 | - | 10/07/20 | < 0.004 |
| 10/07/20 | - | 10/21/20 | < 0.007 |
| 10/21/20 | - | 11/04/20 | < 0.004 |
| 11/04/20 | - | 11/18/20 | < 0.006 |
| 11/18/20 | - | 12/02/20 | < 0.006 |
| 12/02/20 | - | 12/16/20 | < 0.004 |
| 12/16/20 | - | 12/30/20 | < 0.005 |

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

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**Salem/Hope Creek**
**Results of Analyses for Iodine-131 in Bi-Weekly Air Samples**

**Lower Alloways Creek School (AIAI03)**

| Collection Period | | | I-131 ($pCi/m^3$) |
|---|---|---|---|
| 12/30/19 | - | 01/14/20 | < 0.005 |
| 01/14/20 | - | 01/29/20 | < 0.004 |
| 01/29/20 | - | 02/12/20 | < 0.009 |
| 02/12/20 | - | 02/26/20 | < 0.007 |
| 02/26/20 | - | 03/11/20 | < 0.006 |
| 03/11/20 | - | 03/25/20 | < 0.004 |
| 03/25/20 | - | 04/08/20 | < 0.004 |
| 04/08/20 | - | 04/22/20 | < 0.005 |
| 04/22/20 | - | 05/06/20 | < 0.005 |
| 05/06/20 | - | 05/20/20 | < 0.005 |
| 05/20/20 | - | 06/03/20 | < 0.006 |
| 06/03/20 | - | 06/17/20 | < 0.006 |
| 06/17/20 | - | 07/01/20 | < 0.004 |
| 07/01/20 | - | 07/15/20 | < 0.006 |
| 07/15/20 | - | 07/29/20 | < 0.009 |
| 07/29/20 | - | 08/11/20 | < 0.005 |
| 08/11/20 | - | 08/26/20 | < 0.008 |
| 08/26/20 | - | 09/09/20 | < 0.004 |
| 09/09/20 | - | 09/23/20 | < 0.005 |
| 09/23/20 | - | 10/07/20 | < 0.005 |
| 10/07/20 | - | 10/21/20 | < 0.007 |
| 10/21/20 | - | 11/04/20 | < 0.003 |
| 11/04/20 | - | 11/18/20 | < 0.003 |
| 11/18/20 | - | 12/02/20 | < 0.006 |
| 12/02/20 | - | 12/16/20 | < 0.003 |
| 12/16/20 | - | 12/30/20 | < 0.004 |

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

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**Salem/Hope Creek**
**Results of Analyses for Iodine-131 in Bi-Weekly Air Samples**

**SE Sector, PSE&G Owner Controlled Area (AIAI04)**

| Collection Period | | | I-131 ($pCi/m^3$) |
|---|---|---|---|
| 12/30/19 | - | 01/14/20 | < 0.005 |
| 01/14/20 | - | 01/29/20 | < 0.004 |
| 01/29/20 | - | 02/12/20 | < 0.011 |
| 02/12/20 | - | 02/26/20 | < 0.006 |
| 02/26/20 | - | 03/11/20 | < 0.005 |
| 03/11/20 | - | 03/25/20 | < 0.005 |
| 03/25/20 | - | 04/08/20 | < 0.004 |
| 04/08/20 | - | 04/22/20 | < 0.004 |
| 04/22/20 | - | 05/06/20 | < 0.006 |
| 05/06/20 | - | 05/20/20 | < 0.004 |
| 05/20/20 | - | 06/03/20 | < 0.003 |
| 06/03/20 | - | 06/17/20 | < 0.004 |
| 06/17/20 | - | 07/01/20 | < 0.004 |
| 07/01/20 | - | 07/15/20 | < 0.004 |
| 07/15/20 | - | 07/29/20 | < 0.006 |
| 07/29/20 | - | 08/11/20 | < 0.003 |
| 08/11/20 | - | 08/26/20 | < 0.004 |
| 08/26/20 | - | 09/09/20 | < 0.008 |
| 09/09/20 | - | 09/23/20 | < 0.004 |
| 09/23/20 | - | 10/07/20 | < 0.004 |
| 10/07/20 | - | 10/21/20 | < 0.005 |
| 10/21/20 | - | 11/04/20 | < 0.005 |
| 11/04/20 | - | 11/18/20 | < 0.005 |
| 11/18/20 | - | 12/02/20 | < 0.006 |
| 12/02/20 | - | 12/16/20 | < 0.004 |
| 12/16/20 | - | 12/30/20 | < 0.004 |

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

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**BNE Background Locations**
**Gross Beta Activity in Bi-Weekly Air Particulate Samples**

**BNE Office (COAP01)**

| Collection Period | | | Particulate Gross Beta ($pCi/m^3$) |
|---|---|---|---|
| 12/30/19 | - | 01/14/20 | 0.012 ± 0.001 |
| 01/14/20 | - | 01/29/20 | 0.020 ± 0.002 |
| 01/29/20 | - | 02/12/20 | 0.015 ± 0.002 |
| 02/12/20 | - | 02/26/20 | 0.021 ± 0.002 |
| 02/26/20 | - | 03/11/20 | 0.015 ± 0.002 |
| 03/11/20 | - | 03/25/20 | 0.014 ± 0.001 |
| 03/25/20 | - | 04/08/20 | 0.011 ± 0.001 |
| 04/08/20 | - | 04/22/20 | 0.020 ± 0.002 |
| 04/22/20 | - | 05/06/20 | 0.014 ± 0.001 |
| 05/06/20 | - | 05/20/20 | 0.015 ± 0.002 |
| 05/20/20 | - | 06/03/20 | 0.011 ± 0.001 |
| 06/03/20 | - | 06/17/20 | 0.015 ± 0.002 |
| 06/17/20 | - | 07/01/20 | 0.017 ± 0.002 |
| 07/01/20 | - | 07/15/20 | 0.017 ± 0.002 |
| 07/15/20 | - | 07/29/20 | 0.019 ± 0.002 |
| 07/29/20 | - | 08/11/20 | 0.026 ± 0.002 |
| 08/11/20 | - | 08/26/20 | 0.023 ± 0.002 |
| 08/26/20 | - | 09/09/20 | 0.018 ± 0.002 |
| 09/09/20 | - | 09/23/20 | 0.015 ± 0.002 |
| 09/23/20 | - | 10/07/20 | 0.025 ± 0.002 |
| 10/07/20 | - | 10/21/20 | 0.018 ± 0.002 |
| 10/21/20 | - | 11/04/20 | 0.014 ± 0.002 |
| 11/04/20 | - | 11/18/20 | 0.025 ± 0.002 |
| 11/18/20 | - | 12/02/20 | 0.022 ± 0.002 |
| 12/02/20 | - | 12/16/20 | 0.025 ± 0.002 |
| 12/16/20 | - | 12/30/20 | 0.020 ± 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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**2020 Radiological Environmental Monitoring Program**

**BNE Background Locations**
**Gross Beta Activity in Bi-Weekly Air Particulate Samples**

**Brendan T. Byrne State Forest (COAP02)**

| Collection Period | | | Particulate Gross Beta ($pCi/m^3$) |
|---|---|---|---|
| 12/30/19 | - | 01/14/20 | 0.015 ± 0.002 |
| 01/14/20 | - | 01/29/20 | 0.016 ± 0.002 |
| 01/29/20 | - | 02/12/20 | 0.014 ± 0.001 |
| 02/12/20 | - | 02/26/20 | 0.025 ± 0.002 |
| 02/26/20 | - | 03/11/20 | 0.015 ± 0.002 |
| 03/11/20 | - | 03/25/20 | 0.019 ± 0.002 |
| 03/25/20 | - | 04/08/20 | 0.014 ± 0.001 |
| 04/08/20 | - | 04/22/20 | 0.018 ± 0.002 |
| 04/22/20 | - | 05/06/20 | 0.014 ± 0.001 |
| 05/06/20 | - | 05/20/20 | 0.014 ± 0.002 |
| 05/20/20 | - | 06/03/20 | 0.010 ± 0.001 |
| 06/03/20 | - | 06/17/20 | 0.014 ± 0.002 |
| 06/17/20 | - | 07/01/20 | 0.015 ± 0.002 |
| 07/01/20 | - | 07/15/20 | 0.015 ± 0.002 |
| 07/15/20 | - | 07/29/20 | 0.022 ± 0.002 |
| 07/29/20 | - | 08/11/20 | 0.021 ± 0.002 |
| 08/11/20 | - | 08/26/20 | 0.021 ± 0.002 |
| 08/26/20 | - | 09/09/20 | 0.017 ± 0.002 |
| 09/09/20 | - | 09/23/20 | 0.014 ± 0.001 |
| 09/23/20 | - | 10/07/20 | 0.022 ± 0.002 |
| 10/07/20 | - | 10/21/20 | 0.015 ± 0.001 |
| 10/21/20 | - | 11/04/20 | 0.015 ± 0.002 |
| 11/04/20 | - | 11/18/20 | 0.023 ± 0.002 |
| 11/18/20 | - | 12/02/20 | 0.020 ± 0.002 |
| 12/02/20 | - | 12/16/20 | 0.022 ± 0.002 |
| 12/16/20 | - | 12/30/20 | 0.017 ± 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**
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**Oyster Creek**
**Gross Beta Activity in Bi-Weekly Air Particulate Samples**

**Waretown Municipal Building (OCAP01)**

| Collection Period | | | Particulate Gross Beta ($pCi/m^3$) |
|---|---|---|---|
| 12/30/19 | - | 01/14/20 | 0.012 ± 0.001 |
| 01/14/20 | - | 01/29/20 | 0.016 ± 0.002 |
| 01/29/20 | - | 02/12/20 | 0.014 ± 0.002 |
| 02/12/20 | - | 02/26/20 | 0.022 ± 0.002 |
| 02/26/20 | - | 03/11/20 | 0.019 ± 0.002 |
| 03/11/20 | - | 03/25/20 | 0.016 ± 0.002 |
| 03/25/20 | - | 04/08/20 | 0.013 ± 0.002 |
| 04/08/20 | - | 04/22/20 | 0.026 ± 0.002 |
| 04/22/20 | - | 05/06/20 | 0.016 ± 0.002 |
| 05/06/20 | - | 05/20/20 | 0.014 ± 0.002 |
| 05/20/20 | - | 06/03/20 | 0.012 ± 0.002 |
| 06/03/20 | - | 06/17/20 | 0.015 ± 0.002 |
| 06/17/20 | - | 07/01/20 | 0.015 ± 0.002 |
| 07/01/20 | - | 07/15/20 | 0.017 ± 0.002 |
| 07/15/20 | - | 07/29/20 | 0.021 ± 0.002 |
| 07/29/20 | - | 08/11/20 | 0.022 ± 0.002 |
| 08/11/20 | - | 08/26/20 | 0.023 ± 0.002 |
| 08/26/20 | - | 09/09/20 | 0.017 ± 0.002 |
| 09/09/20 | - | 09/23/20 | 0.014 ± 0.002 |
| 09/23/20 | - | 10/07/20 | 0.024 ± 0.002 |
| 10/07/20 | - | 10/21/20 | 0.016 ± 0.002 |
| 10/21/20 | - | 11/04/20 | 0.014 ± 0.002 |
| 11/04/20 | - | 11/18/20 | 0.024 ± 0.002 |
| 11/18/20 | - | 12/02/20 | 0.020 ± 0.002 |
| 12/02/20 | - | 12/16/20 | 0.020 ± 0.002 |
| 12/16/20 | - | 12/30/20 | 0.018 ± 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**
**2020 Radiological Environmental Monitoring Program**

**Oyster Creek**
**Gross Beta Activity in Bi-Weekly Air Particulate Samples**

**Sands Point Harbor (OCAP02)**

| Collection Period | | | Particulate Gross Beta ($pCi/m^3$) |
|---|---|---|---|
| 12/30/19 | - | 01/14/20 | 0.013 ± 0.001 |
| 01/14/20 | - | 01/29/20 | 0.015 ± 0.002 |
| 01/29/20 | - | 02/12/20 | 0.017 ± 0.002 |
| 02/12/20 | - | 02/26/20 | 0.020 ± 0.002 |
| 02/26/20 | - | 03/11/20 | 0.019 ± 0.002 |
| 03/11/20 | - | 03/25/20 | 0.016 ± 0.002 |
| 03/25/20 | - | 04/08/20 | 0.016 ± 0.002 |
| 04/08/20 | - | 04/22/20 | 0.020 ± 0.002 |
| 04/22/20 | - | 05/06/20 | 0.013 ± 0.002 |
| 05/06/20 | - | 05/20/20 | 0.014 ± 0.002 |
| 05/20/20 | - | 06/03/20 | 0.011 ± 0.001 |
| 06/03/20 | - | 06/17/20 | 0.015 ± 0.002 |
| 06/17/20 | - | 07/01/20 | 0.015 ± 0.002 |
| 07/01/20 | - | 07/15/20 | 0.014 ± 0.002 |
| 07/15/20 | - | 07/29/20 | 0.023 ± 0.002 |
| 07/29/20 | - | 08/11/20 | 0.015 ± 0.002 |
| 08/11/20 | - | 08/26/20 | 0.022 ± 0.002 |
| 08/26/20 | - | 09/09/20 | 0.020 ± 0.002 |
| 09/09/20 | - | 09/23/20 | 0.012 ± 0.001 |
| 09/23/20 | - | 10/07/20 | 0.026 ± 0.002 |
| 10/07/20 | - | 10/21/20 | 0.016 ± 0.002 |
| 10/21/20 | - | 11/04/20 | 0.016 ± 0.002 |
| 11/04/20 | - | 11/18/20 | 0.025 ± 0.002 |
| 11/18/20 | - | 12/02/20 | 0.018 ± 0.002 |
| 12/02/20 | - | 12/16/20 | 0.026 ± 0.002 |
| 12/16/20 | - | 12/30/20 | 0.050 ± 0.016[1] |

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

[1] Air sampler found with no power upon arrival. Existing pump was removed and replaced with a new pump. Total sample volume for the period was approximately 5% of normal biweekly volume for the site. Analysis was performed.

**New Jersey Department of Environmental Protection**
**Bureau of Nuclear Engineering**
**2020 Radiological Environmental Monitoring Program**

**Oyster Creek**
**Gross Beta Activity in Bi-Weekly Air Particulate Samples**

**Forked River Marina (OCAP03)**

| Collection Period | | | Particulate Gross Beta ($pCi/m^3$) |
|---|---|---|---|
| 12/30/19 | - | 01/14/20 | 0.013 ± 0.001 |
| 01/14/20 | - | 01/29/20 | 0.020 ± 0.002 |
| 01/29/20 | - | 02/12/20 | 0.014 ± 0.002 |
| 02/12/20 | - | 02/26/20 | 0.023 ± 0.002 |
| 02/26/20 | - | 03/11/20 | 0.015 ± 0.002 |
| 03/11/20 | - | 03/25/20 | 0.016 ± 0.002 |
| 03/25/20 | - | 04/08/20 | 0.013 ± 0.002 |
| 04/08/20 | - | 04/22/20 | 0.019 ± 0.002 |
| 04/22/20 | - | 05/06/20 | 0.013 ± 0.002 |
| 05/06/20 | - | 05/20/20 | 0.013 ± 0.002 |
| 05/20/20 | - | 06/03/20 | 0.011 ± 0.001 |
| 06/03/20 | - | 06/17/20 | 0.016 ± 0.002 |
| 06/17/20 | - | 07/01/20 | 0.017 ± 0.002 |
| 07/01/20 | - | 07/15/20 | 0.016 ± 0.002 |
| 07/15/20 | - | 07/29/20 | 0.020 ± 0.002 |
| 07/29/20 | - | 08/11/20 | No Data[2] |
| 08/11/20 | - | 08/26/20 | 0.022 ± 0.002 |
| 08/26/20 | - | 09/09/20 | 0.015 ± 0.002 |
| 09/09/20 | - | 09/23/20 | 0.015 ± 0.001 |
| 09/23/20 | - | 10/07/20 | 0.022 ± 0.002 |
| 10/07/20 | - | 10/21/20 | 0.014 ± 0.001 |
| 10/21/20 | - | 11/04/20 | 0.015 ± 0.002 |
| 11/04/20 | - | 11/18/20 | 0.023 ± 0.002 |
| 11/18/20 | - | 12/02/20 | 0.021 ± 0.002 |
| 12/02/20 | - | 12/16/20 | 0.021 ± 0.002 |
| 12/16/20 | - | 12/30/20 | 0.020 ± 0.002 |

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

[2] Sample lost in transit to radiochemistry laboratory.

**New Jersey Department of Environmental Protection**
**Bureau of Nuclear Engineering**
**2020 Radiological Environmental Monitoring Program**

**Oyster Creek**
**Gross Beta Activity in Bi-Weekly Air Particulate Samples**

**Lacey Twp. Recreation Building (OCAP04)**

| Collection Period | | | Particulate Gross Beta ($pCi/m^3$) |
|---|---|---|---|
| 12/30/19 | - | 01/14/20 | 0.015 ± 0.002 |
| 01/14/20 | - | 01/29/20 | 0.018 ± 0.002 |
| 01/29/20 | - | 02/12/20 | 0.014 ± 0.002 |
| 02/12/20 | - | 02/26/20 | 0.024 ± 0.002 |
| 02/26/20 | - | 03/11/20 | 0.016 ± 0.002 |
| 03/11/20 | - | 03/25/20 | 0.020 ± 0.002 |
| 03/25/20 | - | 04/08/20 | 0.012 ± 0.001 |
| 04/08/20 | - | 04/22/20 | 0.019 ± 0.002 |
| 04/22/20 | - | 05/06/20 | 0.015 ± 0.002 |
| 05/06/20 | - | 05/20/20 | 0.016 ± 0.002 |
| 05/20/20 | - | 06/03/20 | 0.009 ± 0.001 |
| 06/03/20 | - | 06/17/20 | 0.013 ± 0.002 |
| 06/17/20 | - | 07/01/20 | 0.014 ± 0.001 |
| 07/01/20 | - | 07/15/20 | 0.016 ± 0.002 |
| 07/15/20 | - | 07/29/20 | 0.021 ± 0.002 |
| 07/29/20 | - | 08/11/20 | 0.020 ± 0.002 |
| 08/11/20 | - | 08/26/20 | 0.022 ± 0.002 |
| 08/26/20 | - | 09/09/20 | 0.017 ± 0.002 |
| 09/09/20 | - | 09/23/20 | 0.013 ± 0.001 |
| 09/23/20 | - | 10/07/20 | 0.025 ± 0.002 |
| 10/07/20 | - | 10/21/20 | 0.014 ± 0.001 |
| 10/21/20 | - | 11/04/20 | 0.016 ± 0.002 |
| 11/04/20 | - | 11/18/20 | 0.020 ± 0.002 |
| 11/18/20 | - | 12/02/20 | 0.020 ± 0.002 |
| 12/02/20 | - | 12/16/20 | 0.023 ± 0.002 |
| 12/16/20 | - | 12/30/20 | 0.019 ± 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**
**2020 Radiological Environmental Monitoring Program**

**Oyster Creek**
**Gross Beta Activity in Bi-Weekly Air Particulate Samples**

**JCP&L Substation (OCAP05)**

| Collection Period | | | Particulate Gross Beta ($pCi/m^3$) |
|---|---|---|---|
| 12/30/19 | - | 01/14/20 | 0.013 ± 0.002 |
| 01/14/20 | - | 01/29/20 | 0.016 ± 0.002 |
| 01/29/20 | - | 02/12/20 | 0.015 ± 0.002 |
| 02/12/20 | - | 02/26/20 | 0.025 ± 0.002 |
| 02/26/20 | - | 03/11/20 | 0.019 ± 0.002 |
| 03/11/20 | - | 03/25/20 | 0.017 ± 0.002 |
| 03/25/20 | - | 04/08/20 | 0.014 ± 0.002 |
| 04/08/20 | - | 04/22/20 | 0.022 ± 0.002 |
| 04/22/20 | - | 05/06/20 | 0.018 ± 0.002 |
| 05/06/20 | - | 05/20/20 | 0.017 ± 0.002 |
| 05/20/20 | - | 06/03/20 | 0.013 ± 0.002 |
| 06/03/20 | - | 06/17/20 | 0.015 ± 0.002 |
| 06/17/20 | - | 07/01/20 | 0.015 ± 0.002 |
| 07/01/20 | - | 07/15/20 | 0.015 ± 0.002 |
| 07/15/20 | - | 07/29/20 | 0.018 ± 0.002 |
| 07/29/20 | - | 08/11/20 | 0.021 ± 0.002 |
| 08/11/20 | - | 08/26/20 | 0.021 ± 0.002 |
| 08/26/20 | - | 09/09/20 | 0.017 ± 0.002 |
| 09/09/20 | - | 09/23/20 | 0.014 ± 0.002 |
| 09/23/20 | - | 10/07/20 | 0.023 ± 0.002 |
| 10/07/20 | - | 10/21/20 | 0.016 ± 0.002 |
| 10/21/20 | - | 11/04/20 | 0.014 ± 0.001 |
| 11/04/20 | - | 11/18/20 | 0.026 ± 0.002 |
| 11/18/20 | - | 12/02/20 | 0.021 ± 0.002 |
| 12/02/20 | - | 12/16/20 | 0.023 ± 0.002 |
| 12/16/20 | - | 12/30/20 | 0.018 ± 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**
**2020 Radiological Environmental Monitoring Program**

**Oyster Creek**
**Gross Beta Activity in Weekly Air Particulate Samples**

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

| Collection Period | | | Particulate Gross Beta ($pCi/m^3$) |
|---|---|---|---|
| 01/02/20 | - | 01/09/20 | 0.026 ± 0.005 |
| 01/09/20 | - | 01/15/20 | 0.023 ± 0.005 |
| 01/15/20 | - | 01/22/20 | 0.037 ± 0.005 |
| 01/22/20 | - | 01/29/20 | 0.023 ± 0.004 |
| 01/29/20 | - | 02/05/20 | 0.028 ± 0.005 |
| 02/05/20 | - | 02/12/20 | 0.030 ± 0.005 |
| 02/12/20 | - | 02/19/20 | 0.031 ± 0.005 |
| 02/19/20 | - | 02/26/20 | 0.036 ± 0.005 |
| 02/26/20 | - | 03/04/20 | 0.029 ± 0.005 |
| 03/04/20 | - | 03/11/20 | 0.025 ± 0.004 |
| 03/11/20 | - | 03/18/20 | 0.031 ± 0.005 |
| 03/18/20 | - | 03/26/20 | 0.034 ± 0.005 |
| 03/26/20 | - | 04/01/20 | 0.029 ± 0.005 |
| 04/01/20 | - | 04/09/20 | 0.022 ± 0.004 |
| 04/09/20 | - | 04/22/20 | 0.031 ± 0.003 |
| 04/22/20 | - | 05/06/20 | 0.022 ± 0.003 |
| 05/06/20 | - | 05/20/20 | 0.024 ± 0.003 |
| 05/20/20 | - | 06/04/20 | 0.013 ± 0.002 |
| 06/04/20 | - | 06/18/20 | 0.017 ± 0.003 |
| 06/18/20 | - | 07/01/20 | 0.028 ± 0.003 |
| 07/01/20 | - | 07/15/20 | 0.027 ± 0.003 |
| 07/15/20 | - | 07/30/20 | 0.030 ± 0.003 |
| 07/30/20 | - | 08/12/20 | 0.034 ± 0.004 |
| 08/12/20 | - | 08/27/20 | 0.031 ± 0.003 |
| 08/27/20 | - | 09/14/20 | No Data[3] |
| 09/14/20 | - | 09/22/20 | 0.029 ± 0.004 |

Note: Air Particulate samples are collected by the licensee on a weekly basis (through 04/09/20). Subsequent sample collection frequency reduced to biweekly by the licensee.

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

[3] Sampler cartridge malfunction and low vacuum gauge. Sampler activated on 09/14/20. Collection period is 8 days.

**New Jersey Department of Environmental Protection**
**Bureau of Nuclear Engineering**
**2020 Radiological Environmental Monitoring Program**

**Oyster Creek**
**Gross Beta Activity in Weekly Air Particulate Samples**

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

| Collection Period | | | Particulate Gross Beta ($pCi/m^3$) |
|---|---|---|---|
| 09/22/20 | - | 10/06/20 | 0.037 ± 0.003 |
| 10/06/20 | - | 10/21/20 | 0.027 ± 0.003 |
| 10/21/20 | - | 11/05/20 | 0.025 ± 0.003 |
| 11/05/20 | - | 11/18/20 | 0.030 ± 0.003 |
| 11/18/20 | - | 12/03/20 | 0.025 ± 0.003 |
| 12/03/20 | - | 12/15/20 | 0.040 ± 0.004 |
| 12/15/20 | - | 12/29/20 | 0.026 ± 0.003 |

Note: Air Particulate samples are collected by the licensee on a biweekly basis starting the period 04/09/22 through 04/22/22

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**
**2020 Radiological Environmental Monitoring Program**

**Oyster Creek**
**Gross Beta Activity in Bi-Weekly Air Particulate Samples**

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

| Collection Period | | | Particulate Gross Beta ($pCi/m^3$) |
|---|---|---|---|
| 12/30/19 | - | 01/14/20 | 0.013 ± 0.001 |
| 01/14/20 | - | 01/29/20 | 0.017 ± 0.002 |
| 01/29/20 | - | 02/12/20 | 0.016 ± 0.002 |
| 02/12/20 | - | 02/26/20 | 0.019 ± 0.002 |
| 02/26/20 | - | 03/11/20 | 0.018 ± 0.002 |
| 03/11/20 | - | 03/25/20 | 0.016 ± 0.002 |
| 03/25/20 | - | 04/08/20 | 0.014 ± 0.002 |
| 04/08/20 | - | 04/22/20 | 0.022 ± 0.002 |
| 04/22/20 | - | 05/06/20 | 0.014 ± 0.002 |
| 05/06/20 | - | 05/20/20 | 0.015 ± 0.002 |
| 05/20/20 | - | 06/03/20 | 0.010 ± 0.001 |
| 06/03/20 | - | 06/17/20 | 0.015 ± 0.002 |
| 06/17/20 | - | 07/01/20 | 0.014 ± 0.002 |
| 07/01/20 | - | 07/15/20 | 0.014 ± 0.001 |
| 07/15/20 | - | 07/29/20 | 0.021 ± 0.002 |
| 07/29/20 | - | 08/11/20 | No Data[4] |
| 08/11/20 | - | 08/26/20 | 0.021 ± 0.002 |
| 08/26/20 | - | 09/09/20 | 0.018 ± 0.002 |
| 09/09/20 | - | 09/23/20 | 0.013 ± 0.001 |
| 09/23/20 | - | 10/07/20 | 0.023 ± 0.002 |
| 10/07/20 | - | 10/21/20 | 0.016 ± 0.002 |
| 10/21/20 | - | 11/04/20 | 0.014 ± 0.001 |
| 11/04/20 | - | 11/18/20 | 0.025 ± 0.002 |
| 11/18/20 | - | 12/02/20 | 0.023 ± 0.002 |
| 12/02/20 | - | 12/16/20 | 0.025 ± 0.002 |
| 12/16/20 | - | 12/30/20 | 0.017 ± 0.002 |

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

[4] Sample lost in transit to radiochemistry laboratory.

**New Jersey Department of Environmental Protection**
**Bureau of Nuclear Engineering**
**2020 Radiological Environmental Monitoring Program**

**Oyster Creek**
**Gross Beta Activity in Bi-Weekly Air Particulate Samples**

**East of US Route 9 and South of Discharge Canal Inside Fence (SE Sector) (OCAP08)**

| Collection Period | | | Particulate Gross Beta ($pCi/m^3$) |
|---|---|---|---|
| 12/30/19 | - | 01/14/20 | 0.013 ± 0.001 |
| 01/14/20 | - | 01/29/20 | 0.020 ± 0.002 |
| 01/29/20 | - | 02/12/20 | 0.015 ± 0.002 |
| 02/12/20 | - | 02/26/20 | 0.021 ± 0.002 |
| 02/26/20 | - | 03/11/20 | 0.016 ± 0.002 |
| 03/11/20 | - | 03/25/20 | 0.016 ± 0.002 |
| 03/25/20 | - | 04/08/20 | 0.012 ± 0.002 |
| 04/08/20 | - | 04/22/20 | 0.022 ± 0.002 |
| 04/22/20 | - | 05/06/20 | 0.015 ± 0.002 |
| 05/06/20 | - | 05/20/20 | 0.015 ± 0.002 |
| 05/20/20 | - | 06/03/20 | 0.011 ± 0.001 |
| 06/03/20 | - | 06/17/20 | 0.015 ± 0.002 |
| 06/17/20 | - | 07/01/20 | 0.018 ± 0.002 |
| 07/01/20 | - | 07/15/20 | 0.016 ± 0.002 |
| 07/15/20 | - | 07/29/20 | 0.022 ± 0.002 |
| 07/29/20 | - | 08/11/20 | 0.020 ± 0.002 |
| 08/11/20 | - | 08/26/20 | 0.021 ± 0.002 |
| 08/26/20 | - | 09/09/20 | 0.034 ± 0.007 |
| 09/09/20 | - | 09/23/20 | 0.019 ± 0.003 |
| 09/23/20 | - | 10/07/20 | 0.024 ± 0.002 |
| 10/07/20 | - | 10/21/20 | 0.017 ± 0.002 |
| 10/21/20 | - | 11/04/20 | 0.015 ± 0.002 |
| 11/04/20 | - | 11/18/20 | 0.023 ± 0.002 |
| 11/18/20 | - | 12/02/20 | 0.020 ± 0.002 |
| 12/02/20 | - | 12/16/20 | 0.024 ± 0.002 |
| 12/16/20 | - | 12/30/20 | 0.021 ± 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**
**2020 Radiological Environmental Monitoring Program**

**Salem/Hope Creek**
**Gross Beta Activity in Bi-Weekly Air Particulate Samples**

**Fort Elfsborg Road (AIAP01)**

| Collection Period | | | Particulate Gross Beta ($pCi/m^3$) |
|---|---|---|---|
| 12/30/19 | - | 01/14/20 | 0.017 ± 0.002 |
| 01/14/20 | - | 01/29/20 | 0.017 ± 0.002 |
| 01/29/20 | - | 02/12/20 | 0.014 ± 0.002 |
| 02/12/20 | - | 02/26/20 | 0.025 ± 0.002 |
| 02/26/20 | - | 03/11/20 | 0.016 ± 0.002 |
| 03/11/20 | - | 03/25/20 | 0.020 ± 0.002 |
| 03/25/20 | - | 04/08/20 | 0.013 ± 0.001 |
| 04/08/20 | - | 04/22/20 | 0.020 ± 0.002 |
| 04/22/20 | - | 05/06/20 | 0.013 ± 0.001 |
| 05/06/20 | - | 05/20/20 | 0.016 ± 0.002 |
| 05/20/20 | - | 06/03/20 | 0.011 ± 0.001 |
| 06/03/20 | - | 06/17/20 | 0.015 ± 0.002 |
| 06/17/20 | - | 07/01/20 | 0.015 ± 0.002 |
| 07/01/20 | - | 07/15/20 | 0.017 ± 0.002 |
| 07/15/20 | - | 07/29/20 | 0.020 ± 0.002 |
| 07/29/20 | - | 08/11/20 | 0.020 ± 0.002 |
| 08/11/20 | - | 08/26/20 | 0.023 ± 0.002 |
| 08/26/20 | - | 09/09/20 | 0.019 ± 0.002 |
| 09/09/20 | - | 09/23/20 | 0.016 ± 0.002 |
| 09/23/20 | - | 10/07/20 | 0.022 ± 0.002 |
| 10/07/20 | - | 10/21/20 | 0.017 ± 0.002 |
| 10/21/20 | - | 11/04/20 | 0.016 ± 0.002 |
| 11/04/20 | - | 11/18/20 | 0.024 ± 0.002 |
| 11/18/20 | - | 12/02/20 | 0.022 ± 0.002 |
| 12/02/20 | - | 12/16/20 | 0.026 ± 0.002 |
| 12/16/20 | - | 12/30/20 | 0.019 ± 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**
**2020 Radiological Environmental Monitoring Program**

**Salem/Hope Creek**
**Gross Beta Activity in Bi-Weekly Air Particulate Samples**

**Plant Access Road (AIAP02)**

| Collection Period | | | Particulate Gross Beta ($pCi/m^3$) |
|---|---|---|---|
| 12/30/19 | - | 01/14/20 | 0.014 ± 0.002 |
| 01/14/20 | - | 01/29/20 | 0.017 ± 0.002 |
| 01/29/20 | - | 02/12/20 | 0.015 ± 0.002 |
| 02/12/20 | - | 02/26/20 | 0.022 ± 0.002 |
| 02/26/20 | - | 03/11/20 | 0.018 ± 0.002 |
| 03/11/20 | - | 03/25/20 | 0.016 ± 0.002 |
| 03/25/20 | - | 04/08/20 | 0.014 ± 0.002 |
| 04/08/20 | - | 04/22/20 | 0.024 ± 0.002 |
| 04/22/20 | - | 05/06/20 | 0.016 ± 0.002 |
| 05/06/20 | - | 05/20/20 | 0.017 ± 0.002 |
| 05/20/20 | - | 06/03/20 | 0.012 ± 0.001 |
| 06/03/20 | - | 06/17/20 | 0.016 ± 0.002 |
| 06/17/20 | - | 07/01/20 | 0.016 ± 0.002 |
| 07/01/20 | - | 07/15/20 | 0.018 ± 0.002 |
| 07/15/20 | - | 07/29/20 | 0.019 ± 0.002 |
| 07/29/20 | - | 08/11/20 | 0.020 ± 0.002 |
| 08/11/20 | - | 08/26/20 | 0.022 ± 0.002 |
| 08/26/20 | - | 09/09/20 | 0.018 ± 0.002 |
| 09/09/20 | - | 09/23/20 | 0.016 ± 0.002 |
| 09/23/20 | - | 10/07/20 | 0.023 ± 0.002 |
| 10/07/20 | - | 10/21/20 | 0.016 ± 0.002 |
| 10/21/20 | - | 11/04/20 | 0.015 ± 0.002 |
| 11/04/20 | - | 11/18/20 | 0.022 ± 0.002 |
| 11/18/20 | - | 12/02/20 | 0.021 ± 0.002 |
| 12/02/20 | - | 12/16/20 | 0.029 ± 0.002 |
| 12/16/20 | - | 12/30/20 | 0.019 ± 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**
**2020 Radiological Environmental Monitoring Program**

**Salem/Hope Creek**
**Gross Beta Activity in Bi-Weekly Air Particulate Samples**

**Lower Alloways Creek School (AIAP03)**

| Collection Period | | | Particulate Gross Beta ($pCi/m^3$) |
|---|---|---|---|
| 12/30/19 | - | 01/14/20 | 0.013 ± 0.001 |
| 01/14/20 | - | 01/29/20 | 0.017 ± 0.002 |
| 01/29/20 | - | 02/12/20 | 0.017 ± 0.002 |
| 02/12/20 | - | 02/26/20 | 0.020 ± 0.002 |
| 02/26/20 | - | 03/11/20 | 0.017 ± 0.002 |
| 03/11/20 | - | 03/25/20 | 0.016 ± 0.002 |
| 03/25/20 | - | 04/08/20 | 0.015 ± 0.002 |
| 04/08/20 | - | 04/22/20 | 0.020 ± 0.002 |
| 04/22/20 | - | 05/06/20 | 0.013 ± 0.002 |
| 05/06/20 | - | 05/20/20 | 0.014 ± 0.002 |
| 05/20/20 | - | 06/03/20 | 0.011 ± 0.001 |
| 06/03/20 | - | 06/17/20 | 0.015 ± 0.002 |
| 06/17/20 | - | 07/01/20 | 0.015 ± 0.002 |
| 07/01/20 | - | 07/15/20 | 0.016 ± 0.002 |
| 07/15/20 | - | 07/29/20 | 0.021 ± 0.002 |
| 07/29/20 | - | 08/11/20 | 0.019 ± 0.002 |
| 08/11/20 | - | 08/26/20 | 0.021 ± 0.002 |
| 08/26/20 | - | 09/09/20 | 0.018 ± 0.002 |
| 09/09/20 | - | 09/23/20 | 0.014 ± 0.001 |
| 09/23/20 | - | 10/07/20 | 0.022 ± 0.002 |
| 10/07/20 | - | 10/21/20 | 0.017 ± 0.002 |
| 10/21/20 | - | 11/04/20 | 0.016 ± 0.002 |
| 11/04/20 | - | 11/18/20 | 0.021 ± 0.002 |
| 11/18/20 | - | 12/02/20 | 0.021 ± 0.002 |
| 12/02/20 | - | 12/16/20 | 0.027 ± 0.002 |
| 12/16/20 | - | 12/30/20 | 0.019 ± 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**
**2020 Radiological Environmental Monitoring Program**

**Salem/Hope Creek**
**Gross Beta Activity in Bi-Weekly Air Particulate Samples**

**SE Sector, PSE&G Owner Controlled Area (AIAP04)**

| Collection Period | | | Particulate Gross Beta ($pCi/m^3$) |
|---|---|---|---|
| 12/30/19 | - | 01/14/20 | 0.013 ± 0.001 |
| 01/14/20 | - | 01/29/20 | 0.022 ± 0.002 |
| 01/29/20 | - | 02/12/20 | 0.015 ± 0.002 |
| 02/12/20 | - | 02/26/20 | 0.022 ± 0.002 |
| 02/26/20 | - | 03/11/20 | 0.016 ± 0.002 |
| 03/11/20 | - | 03/25/20 | 0.015 ± 0.002 |
| 03/25/20 | - | 04/08/20 | 0.015 ± 0.002 |
| 04/08/20 | - | 04/22/20 | 0.021 ± 0.002 |
| 04/22/20 | - | 05/06/20 | 0.014 ± 0.001 |
| 05/06/20 | - | 05/20/20 | 0.017 ± 0.002 |
| 05/20/20 | - | 06/03/20 | 0.010 ± 0.001 |
| 06/03/20 | - | 06/17/20 | 0.015 ± 0.002 |
| 06/17/20 | - | 07/01/20 | 0.017 ± 0.002 |
| 07/01/20 | - | 07/15/20 | 0.017 ± 0.002 |
| 07/15/20 | - | 07/29/20 | 0.022 ± 0.002 |
| 07/29/20 | - | 08/11/20 | 0.017 ± 0.002 |
| 08/11/20 | - | 08/26/20 | 0.023 ± 0.002 |
| 08/26/20 | - | 09/09/20 | 0.016 ± 0.002 |
| 09/09/20 | - | 09/23/20 | 0.014 ± 0.001 |
| 09/23/20 | - | 10/07/20 | 0.022 ± 0.002 |
| 10/07/20 | - | 10/21/20 | 0.016 ± 0.002 |
| 10/21/20 | - | 11/04/20 | 0.017 ± 0.002 |
| 11/04/20 | - | 11/18/20 | 0.024 ± 0.002 |
| 11/18/20 | - | 12/02/20 | 0.022 ± 0.002 |
| 12/02/20 | - | 12/16/20 | 0.024 ± 0.002 |
| 12/16/20 | - | 12/30/20 | 0.022 ± 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**
**2020 Radiological Environmental Monitoring Program**

**BNE Background Location**
**Results of Analyses 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 |
|---|---|---|---|---|---|---|---|---|
| 12/30/19 | - | 03/25/20 | < 0.4 | < 0.5 | < 0.4 | 121 ± 17 | < 36.0 | < 16.2 |
| 03/25/20 | - | 07/01/20 | < 0.2 | < 0.4 | < 0.2 | 150 ± 18 | < 32.9 | < 14.2 |
| 07/01/20 | - | 10/07/20 | < 0.2 | < 0.2 | < 0.2 | 107 ± 15 | < 39.0 | < 23.8 |
| 10/07/20 | - | 12/30/20 | < 0.3 | < 0.3 | < 0.3 | 117 ± 14 | < 36.8 | < 19.6 |

**Brendan T. Byrne State Forest (COAP02)**

| Collection Period | | | Co-60 | Cs-134 | Cs-137 | Be-7 | Sr-89 | Sr-90 |
|---|---|---|---|---|---|---|---|---|
| 12/30/19 | - | 03/25/20 | < 0.3 | < 0.2 | < 0.2 | 119 ± 16 | < 30.6 | < 18.3 |
| 03/25/20 | - | 07/01/20 | < 0.2 | < 0.2 | < 0.2 | 147 ± 17 | < 30.9 | < 17.5 |
| 07/01/20 | - | 10/07/20 | < 0.2 | < 0.2 | < 0.2 | 115 ± 14 | < 36.7 | < 20.4 |
| 10/07/20 | - | 12/30/20 | < 0.7 | < 0.7 | < 0.5 | 103 ± 17 | < 35.9 | < 21.5 |

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**
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**Oyster Creek**
**Results of Analyses 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 |
|---|---|---|---|---|---|---|---|---|
| 12/30/19 | - | 03/25/20 | < 0.3 | < 0.3 | < 0.2 | 116 ± 16 | < 55.5 | < 15.8 |
| 03/25/20 | - | 07/01/20 | < 0.2 | < 0.4 | < 0.3 | 148 ± 19 | < 43.8 | < 17.5 |
| 07/01/20 | - | 10/07/20 | < 0.3 | < 0.4 | < 0.4 | 132 ± 20 | < 33.8 | < 9.6 |
| 10/07/20 | - | 12/30/20 | < 0.3 | < 0.3 | < 0.3 | 96 ± 13 | < 38.4 | < 18.5 |

**Sands Point Harbor (OCAP02)**

| Collection Period | | | Co-60 | Cs-134 | Cs-137 | Be-7 | Sr-89 | Sr-90 |
|---|---|---|---|---|---|---|---|---|
| 12/30/19 | - | 03/25/20 | < 0.3 | < 0.4 | < 0.3 | 104 ± 14 | < 43.0 | < 18.1 |
| 03/25/20 | - | 07/01/20 | < 0.3 | < 0.3 | < 0.3 | 156 ± 20 | < 40.3 | < 17.2 |
| 07/01/20 | - | 10/07/20 | < 0.3 | < 0.3 | < 0.3 | 115 ± 17 | < 35.0 | < 15.4 |
| 10/07/20 | - | 12/30/20 | < 0.4 | < 0.3 | < 0.3 | 109 ± 15 | < 48.2 | < 43.9 |

**Forked River Marina (OCAP03)**

| Collection Period | | | Co-60 | Cs-134 | Cs-137 | Be-7 | Sr-89 | Sr-90 |
|---|---|---|---|---|---|---|---|---|
| 12/30/19 | - | 03/25/20 | < 0.4 | < 0.2 | < 0.2 | 121 ± 16 | < 40.0 | < 18.1 |
| 03/25/20 | - | 07/01/20 | < 0.3 | < 0.3 | < 0.2 | 117 ± 16 | < 43.5 | < 25.6 |
| 07/01/20 | - | 10/07/20 | < 0.1 | < 0.2 | < 0.2 | 100 ± 14 | < 35.4 | < 13.2 |
| 10/07/20 | - | 12/30/20 | < 0.3 | < 0.3 | < 0.2 | 102 ± 14 | < 29.1 | < 16.9 |

**Lacey Township Recreation Building (OCAP04)**

| Collection Period | | | Co-60 | Cs-134 | Cs-137 | Be-7 | Sr-89 | Sr-90 |
|---|---|---|---|---|---|---|---|---|
| 12/30/19 | - | 03/25/20 | < 0.3 | < 0.2 | < 0.2 | 128 ± 17 | < 29.0 | < 12.8 |
| 03/25/20 | - | 07/01/20 | < 0.2 | < 0.2 | < 0.2 | 136 ± 16 | < 45.2 | < 25.6 |
| 07/01/20 | - | 10/07/20 | < 0.2 | < 0.2 | < 0.2 | 113 ± 15 | < 33.5 | < 13.8 |
| 10/07/20 | - | 12/30/20 | < 0.4 | < 0.3 | < 0.2 | 102 ± 14 | < 44.0 | < 16.4 |

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**
**2020 Radiological Environmental Monitoring Program**

**Oyster Creek**
**Results of Analyses 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 |
|---|---|---|---|---|---|---|---|---|
| 12/30/19 | - | 03/25/20 | < 0.4 | < 0.4 | < 0.4 | 125 ± 16 | < 37.7 | < 20.3 |
| 03/25/20 | - | 07/01/20 | < 0.3 | < 0.3 | < 0.2 | 141 ± 17 | < 59.5 | < 19.7 |
| 07/01/20 | - | 10/07/20 | < 0.2 | < 0.2 | < 0.2 | 107 ± 14 | < 32.2 | < 12.1 |
| 10/07/20 | - | 12/30/20 | < 0.3 | < 0.3 | < 0.2 | 104 ± 13 | < 41.7 | < 19.1 |

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

| Collection Period | | | Co-60 | Cs-134 | Cs-137 | Be-7 | Sr-89 | Sr-90 |
|---|---|---|---|---|---|---|---|---|
| 01/02/20 | - | 04/01/20 | < 0.7 | < 0.6 | < 0.6 | 115 ± 19 | < 49.1 | < 36.9 |
| 04/01/20 | - | 07/01/20 | < 0.5 | < 0.5 | < 0.6 | 107 ± 19 | < 94.7 | < 72.4 |
| 07/01/20 | - | 10/06/20 | < 0.5 | < 0.5 | < 0.4 | 104 ± 18 | < 73.3 | < 59.9 |
| 10/06/20 | - | 12/29/20 | < 0.5 | < 0.5 | < 0.6 | 74 ± 16 | < 58.4 | < 40.7 |

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

| Collection Period | | | Co-60 | Cs-134 | Cs-137 | Be-7 | Sr-89 | Sr-90 |
|---|---|---|---|---|---|---|---|---|
| 12/30/19 | - | 03/25/20 | < 0.3 | < 0.4 | < 0.4 | 126 ± 18 | < 28.3 | < 19.1 |
| 03/25/20 | - | 07/01/20 | < 0.3 | < 0.2 | < 0.2 | 141 ± 17 | < 45.2 | < 16.8 |
| 07/01/20 | - | 10/07/20 | < 0.2 | < 0.2 | < 0.2 | 98 ± 13 | < 53.9 | < 23.3 |
| 10/07/20 | - | 12/30/20 | < 0.2 | < 0.3 | < 0.2 | 105 ± 13 | < 45.4 | < 36.5 |

**East of US Route 9 & South of the Discharge Canal Inside Fence (SE Sector) (OCAP08)**

| Collection Period | | | Co-60 | Cs-134 | Cs-137 | Be-7 | Sr-89 | Sr-90 |
|---|---|---|---|---|---|---|---|---|
| 12/30/19 | - | 03/25/20 | < 0.3 | < 0.3 | < 0.3 | 119 ± 15 | < 44.8 | < 23.2 |
| 03/25/20 | - | 07/01/20 | < 0.6 | < 0.5 | < 0.4 | 156 ± 22 | < 26.1 | < 13.7 |
| 07/01/20 | - | 10/07/20 | < 0.2 | < 0.3 | < 0.1 | 112 ± 15 | < 44.6 | < 34.2 |
| 10/07/20 | - | 12/30/20 | < 0.3 | < 0.4 | < 0.3 | 118 ± 14 | < 46.2 | < 33.6 |

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**
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**Salem / Hope Creek**
**Results of Analyses 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 |
|---|---|---|---|---|---|---|---|---|
| 12/30/19 | - | 03/25/20 | < 0.2 | < 0.3 | < 0.3 | 109 ± 15 | < 31.2 | < 11.1 |
| 03/25/20 | - | 07/01/20 | < 0.3 | < 0.3 | < 0.3 | 139 ± 18 | < 32.8 | < 12.7 |
| 07/01/20 | - | 10/07/20 | < 0.2 | < 0.2 | < 0.2 | 111 ± 15 | < 28.2 | < 14.4 |
| 10/07/20 | - | 12/30/20 | < 0.4 | < 0.3 | < 0.3 | 101 ± 13 | < 42.3 | < 15.7 |

**Plant Access Road (AIAP02)**

| Collection Period | | | Co-60 | Cs-134 | Cs-137 | Be-7 | Sr-89 | Sr-90 |
|---|---|---|---|---|---|---|---|---|
| 12/30/19 | - | 03/25/20 | < 0.3 | < 0.3 | < 0.3 | 118 ± 14 | < 33.6 | < 13.3 |
| 03/25/20 | - | 07/01/20 | < 0.3 | < 0.2 | < 0.2 | 124 ± 15 | < 31.2 | < 17.6 |
| 07/01/20 | - | 10/07/20 | < 0.2 | < 0.3 | < 0.2 | 123 ± 16 | < 46.8 | < 20.6 |
| 10/07/20 | - | 12/30/20 | < 0.4 | < 0.3 | < 0.3 | 110 ± 16 | < 49.6 | < 24.8 |

**Lower Alloways Creek School (AIAP03)**

| Collection Period | | | Co-60 | Cs-134 | Cs-137 | Be-7 | Sr-89 | Sr-90 |
|---|---|---|---|---|---|---|---|---|
| 12/30/19 | - | 03/25/20 | < 0.3 | < 0.3 | < 0.3 | 111 ± 15 | < 48.6 | < 15.1 |
| 03/25/20 | - | 07/01/20 | < 0.3 | < 0.2 | < 0.2 | 146 ± 17 | < 34.3 | < 17.2 |
| 07/01/20 | - | 10/07/20 | < 0.3 | < 0.3 | < 0.2 | 132 ± 18 | < 43.8 | < 10.4 |
| 10/07/20 | - | 12/30/20 | < 0.2 | < 0.3 | < 0.2 | 105 ± 14 | < 34.5 | < 22.2 |

**SE Sector, PSE&G Owner Controlled Area (AIAP04)**

| Collection Period | | | Co-60 | Cs-134 | Cs-137 | Be-7 | Sr-89 | Sr-90 |
|---|---|---|---|---|---|---|---|---|
| 12/30/19 | - | 03/25/20 | < 0.2 | < 0.3 | < 0.2 | 119 ± 15 | < 41.7 | < 16.0 |
| 03/25/20 | - | 07/01/20 | < 0.4 | < 0.2 | < 0.2 | 139 ± 17 | < 27.4 | < 13.8 |
| 07/01/20 | - | 10/07/20 | < 0.4 | < 0.3 | < 0.2 | 124 ± 17 | < 42.0 | < 11.9 |
| 10/07/20 | - | 12/30/20 | < 0.2 | < 0.3 | < 0.2 | 105 ± 13 | < 40.1 | < 29.0 |

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**
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## Oyster Creek
## Results of Analyses 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 |
|---|---|---|---|---|---|---|---|
| 06/01/20 - Clams | < 6 | < 5 | < 6 | < 5 | 1,830 ± 236 | < 88 | < 169 |
| 10/19/20 - Clams | < 5 | < 5 | < 5 | < 6 | 1,530 ± 207 | < 87 | < 193 |

**East of Site – Barnegat Bay (OCFS02)**

| Collection Date | Co-58 | Co-60 | Cs-134 | Cs-137 | K-40 | Sr-89 | Sr-90 |
|---|---|---|---|---|---|---|---|
| 06/01/20 – Clams | < 5 | < 6 | < 6 | < 5 | 1,670 ± 224 | < 77 | < 97 |
| 06/02/20–American Eel | < 15 | < 18 | < 17 | < 21 | 2,780 ± 520 | < 149 | < 216 |
| 06/02/20 – White Perch | < 13 | < 12 | < 14 | < 14 | 2,870 ± 401 | < 98 | < 136 |
| 10/20/20 -American Eel | < 10 | < 11 | < 12 | < 9 | 3,130 ± 395 | < 219 | < 181 |
| 10/21/20 - White Perch | < 18 | < 27 | < 22 | < 21 | 3,290 ± 525 | < 268 | < 225 |
| 10/21/20 - Dogfish | < 18 | < 22 | < 16 | < 22 | 2,920 ± 546 | < 136 | < 271 |
| 10/21/20 - Striped Bass | < 7 | < 9 | < 8 | < 8 | 3,770 ± 436 | < 209 | < 225 |
| 10/21/20 - Crab | < 10 | < 14 | < 13 | < 12 | 2,220 ± 379 | < 94 | < 89 |
| 10/20/20 - Clams | < 6 | < 8 | < 7 | < 7 | 1,340 ± 213 | < 82 | < 125 |

**Great Bay / Little Egg Harbor (OCFS03)**

| Collection Date | Co-58 | Co-60 | Cs-134 | Cs-137 | K-40 | Sr-89 | Sr-90 |
|---|---|---|---|---|---|---|---|
| 06/01/20 - Clams | < 5 | < 6 | < 8 | < 7 | 1,570 ± 215 | < 84 | < 113 |
| 10/21/20 - Clams | < 6 | < 8 | < 9 | < 7 | 1,520 ± 256 | < 114 | < 99 |

**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 |
|---|---|---|---|---|---|---|---|
| 10/20/20 - Striped Bass | < 7 | < 8 | < 8 | < 7 | 3,640 ± 493 | < 225 | < 224 |

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**
**2020 Radiological Environmental Monitoring Program**

## Salem/Hope Creek
## Results of Analyses 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 |
|---|---|---|---|---|---|---|---|
| 05/01/20 – White Perch | < 15 | < 16 | < 17 | < 17 | 3,560 ± 576 | < 125 | < 148 |
| 05/01/20 – Catfish | < 11 | < 14 | < 14 | < 13 | 3,110 ± 423 | < 113 | < 104 |
| 05/01/20 – Striped Bass | < 15 | < 18 | < 16 | < 15 | 4,210 ± 541 | < 113 | < 129 |
| 07/15/20 - Crab | < 5 | < 6 | < 5 | < 5 | 3,270 ± 367 | < 138 | < 131 |
| 08/26/20 - Crab | < 7 | < 4 | < 7 | < 6 | 1,790 ± 252 | < 73 | < 142 |
| 10/14/20 – Striped Bass | < 11 | < 12 | < 11 | < 10 | 3,520 ± 427 | < 301 | < 204 |
| 10/19/20 – Striped Bass | < 8 | < 9 | < 8 | < 8 | 4,040 ± 436 | < 241 | < 330 |

**Delaware River – West Bank Upstream (AIFS02)**

| Collection Date | Co-58 | Co-60 | Cs-134 | Cs-137 | K-40 | Sr-89 | Sr-90 |
|---|---|---|---|---|---|---|---|
| 04/28/20 – Striped Bass | < 11 | < 10 | < 11 | < 9 | 3,280 ± 437 | < 150 | < 178 |
| 04/28/20 - Catfish | < 17 | < 21 | < 22 | < 19 | 3,360 ± 507 | < 84 | < 198 |
| 07/15/20 - Crab | < 5 | < 5 | < 5 | < 5 | 2,060 ± 255 | < 77 | < 88 |
| 08/26/20 - Crab | < 8 | < 9 | < 7 | < 7 | 3,340 ± 408 | < 168 | < 155 |
| 09/24/20 – Bluefish | < 13 | < 14 | < 12 | < 12 | 3,940 ± 481 | < 506 | < 569 |
| 10/13/20 – Striped Bass | < 7 | < 7 | < 7 | < 7 | 3,640 ± 395 | < 323 | < 434 |

**Delaware River – One Mile West of Mad Horse Creek (AIFS03)**

| Collection Date | Co-58 | Co-60 | Cs-134 | Cs-137 | K-40 | Sr-89 | Sr-90 |
|---|---|---|---|---|---|---|---|
| 04/28/20 – Stripped Bass | < 8 | < 9 | < 9 | < 7 | 4,760 ± 591 | < 107 | < 108 |
| 10/14/20 – Striped Bass | < 10 | < 11 | < 11 | < 9 | 3,850 ± 451 | < 260 | < 272 |
| 10/19/20 - Catfish | < 13 | < 17 | < 13 | < 13 | 3,380 ± 468 | < 210 | < 237 |

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**
**2020 Radiological Environmental Monitoring Program**

## Oyster Creek
## Results of Analyses 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 |
|---|---|---|---|---|---|---|---|
| 06/01/20 | < 197 | < 21 | < 25 | < 31 | < 27 | < 27 | 10,600 ± 1,360 |
| 10/20/20 | < 123 | < 13 | < 15 | < 22 | < 15 | < 15 | 13,000 ± 1,340 |

**Oyster Creek Discharge Canal (OCAQ02)**

| Collection Date | Be-7 | Co-58 | Co-60 | Cs-134 | Cs-137 | Mn-54 | K-40 |
|---|---|---|---|---|---|---|---|
| 06/02/20 | < 99 | < 13 | < 15 | < 19 | 32 ± 18[5] | < 12 | 8,350 ± 956 |
| 10/20/20 | < 61 | < 6 | < 6 | < 9 | < 8 | < 7 | 1,310 ± 192 |

**Great Bay / Little Egg Harbor (OCAQ03)**

| Collection Date | Be-7 | Co-58 | Co-60 | Cs-134 | Cs-137 | Mn-54 | K-40 |
|---|---|---|---|---|---|---|---|
| 06/02/20 | 593 ± 277 | < 23 | < 25 | < 34 | 41 ± 27 | < 26 | 16,200 ± 1,860 |
| 10/20/20 | < 167 | < 20 | < 23 | < 28 | < 20 | < 21 | 18,400 ± 1,850 |

**Stouts Creek (OCAQ04)**

| Collection Date | Be-7 | Co-58 | Co-60 | Cs-134 | Cs-137 | Mn-54 | K-40 |
|---|---|---|---|---|---|---|---|
| 06/01/20 | < 96 | < 8 | < 10 | < 13 | < 12 | < 10 | 2,020 ± 350 |
| 10/19/20 | 198 ± 92 | < 10 | < 11 | < 15 | < 10 | < 10 | 6,790 ± 669 |

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.

[5] Since the plant has been in Decommissioning since 2018, this trace amount of Cs-137 is likely attributed to radioactive fallout due to historical nuclear weapons testing and the Chernobyl accident.

**New Jersey Department of Environmental Protection**
**Bureau of Nuclear Engineering**
**2020 Radiological Environmental Monitoring Program**

**Salem/Hope Creek**
**Results of Analyses 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 |
|---|---|---|---|---|---|---|---|
| 07/21/20 | < 86 | < 9 | < 11 | < 15 | < 12 | < 10 | 6,810 ± 752 |
| 11/23/20 | 138 ± 66 | < 6 | < 9 | < 9 | 10 ± 7 | < 8 | 5,490 ± 570 |

**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 |
|---|---|---|---|---|---|---|---|
| 07/21/20 | < 65 | < 7 | < 8 | < 10 | < 8 | < 8 | 3,000 ± 375 |
| 11/19/20 | < 89 | < 9 | < 13 | < 12 | < 11 | < 12 | 3,620 ± 443 |

**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 |
|---|---|---|---|---|---|---|---|
| 07/21/20 | < 147 | < 13 | < 20 | < 24 | < 15 | < 15 | 8,880 ± 956 |
| 11/19/20 | < 66 | < 7 | < 5 | < 11 | < 8 | < 7 | 3,660 ± 423 |

**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 |
|---|---|---|---|---|---|---|---|
| 07/21/20 | < 113 | < 12 | < 16 | < 19 | < 13 | < 13 | 6,320 ± 689 |
| 11/19/20 | < 104 | < 10 | < 11 | < 16 | < 11 | < 10 | 4,760 ± 515 |

**West Bank of Delaware River – Upstream (AIAQ05)**

| Collection Date | Be-7 | Co-58 | Co-60 | Cs-134 | Cs-137 | Mn-54 | K-40 |
|---|---|---|---|---|---|---|---|
| 07/21/20 | < 192 | < 16 | < 19 | < 27 | < 22 | < 21 | 11,700 ± 1,170 |
| 11/19/20 | < 118 | < 14 | < 14 | < 20 | < 14 | < 13 | 14,500 ± 1,440 |

**Delaware Riverbank – 1.0 Miles W of Mad Horse Creek (AIAQ06)**

| Collection Date | Be-7 | Co-58 | Co-60 | Cs-134 | Cs-137 | Mn-54 | K-40 |
|---|---|---|---|---|---|---|---|
| 07/21/20 | < 106 | < 11 | < 13 | < 20 | < 14 | < 13 | 12,000 ± 1,220 |
| 11/13/20 | < 109 | < 11 | < 11 | < 12 | < 12 | < 10 | 10,300 ± 1,040 |

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**
**2020 Radiological Environmental Monitoring Program**

**Oyster Creek**
**Results of Analyses of Gamma Emitters in Vegetable Samples**

**Oyster Creek Onsite Garden - ESE (OCVE01)**

| Sample[6] | Collection Date | Co-58 | Co-60 | Cs-134 | Cs-137 | K-40 |
|---|---|---|---|---|---|---|
| Cabbage | 06/16/20 | < 14 | < 17 | < 17 | < 15 | 4,270 ± 653 |
| Collards | 06/16/20 | < 11 | < 11 | < 13 | < 12 | 4,600 ± 602 |
| Kale | 06/16/20 | < 18 | < 17 | < 16 | < 15 | 4,830 ± 678 |
| Cabbage | 07/22/20 | < 14 | < 31 | < 20 | < 19 | 3,470 ± 588 |
| Collards | 07/22/20 | < 15 | < 13 | < 23 | < 15 | 3,210 ± 577 |
| Kale | 07/22/20 | < 18 | < 26 | < 20 | < 21 | 4,510 ± 689 |
| Cabbage | 08/31/20 | < 14 | < 17 | < 15 | < 14 | 1,800 ± 321 |
| Collards | 08/31/20 | < 14 | < 18 | < 16 | < 14 | 3,090 ± 453 |
| Cabbage | 09/23/20 | < 17 | < 20 | < 18 | < 18 | 3,040 ± 537 |
| Collards | 09/23/20 | < 11 | < 13 | < 13 | < 14 | 3,050 ± 481 |
| Collards | 10/26/20 | < 13 | < 15 | < 16 | < 16 | 2,600 ± 465 |

**Private Farm – NW (OCVE02)**

| Sample[5] | Collection Date | Co-58 | Co-60 | Cs-134 | Cs-137 | K-40 |
|---|---|---|---|---|---|---|
| Collards | 06/16/20 | < 11 | < 17 | < 11 | < 13 | 3,740 ± 502 |
| Kale | 06/16/20 | < 12 | < 14 | < 12 | < 11 | 4,270 ± 599 |
| Rape | 06/16/20 | < 12 | < 14 | < 15 | < 11 | 3,990 ± 525 |
| Cabbage | 07/22/20 | < 13 | < 19 | < 21 | < 16 | 2,510 ± 492 |
| Collards | 07/22/20 | < 12 | < 16 | < 13 | < 11 | 3,790 ± 570 |
| Kale | 07/22/20 | < 30 | < 31 | < 29 | < 23 | 3,280 ± 748 |
| Collards | 08/31/20 | < 13 | < 12 | < 12 | < 12 | 3,190 ± 430 |
| Kale | 08/31/20 | < 12 | < 16 | < 14 | < 12 | 4,020 ± 550 |
| Mustard Green | 08/31/20 | < 22 | < 21 | < 26 | < 24 | 4,860 ± 712 |
| Cabbage | 09/23/20 | < 14 | < 18 | < 15 | < 14 | 3,010 ± 446 |
| Collards | 09/23/20 | < 6 | < 7 | < 8 | < 7 | 4,510 ± 490 |
| Kale | 09/23/20 | < 11 | < 14 | < 11 | < 10 | 4,010 ± 468 |
| Cabbage | 10/26/20 | < 12 | < 10 | < 12 | < 12 | 2,360 ± 362 |
| Collards | 10/26/20 | < 10 | < 11 | < 12 | < 10 | 3,790 ± 497 |
| Swiss Chard | 10/26/20 | < 16 | < 20 | < 15 | < 16 | 4,390 ± 709 |

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.

[6] No Kale sample available at OCVE01 and OCVE02 in September and October 2020 due to low yield at gardens

**New Jersey Department of Environmental Protection**
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**Oyster Creek**
**Results of Analyses of Gamma Emitters in Vegetable Samples**

**Oyster Creek Onsite Garden - SE (OCVE03)**

| Sample[7] | Collection Date | Co-58 | Co-60 | Cs-134 | Cs-137 | K-40 |
|---|---|---|---|---|---|---|
| Cabbage | 06/16/20 | < 15 | < 21 | < 20 | < 17 | 5,810 ± 730 |
| Collards | 06/16/20 | < 18 | < 22 | < 18 | < 22 | 6,070 ± 880 |
| Kale | 06/16/20 | < 12 | < 16 | < 16 | < 14 | 5,170 ± 660 |
| Cabbage | 07/22/20 | < 17 | < 13 | < 19 | < 20 | 2,630 ± 552 |
| Collards | 07/22/20 | < 19 | < 25 | < 27 | < 28 | 4,360 ± 793 |
| Kale | 07/22/20 | < 24 | < 31 | < 30 | < 26 | 4,520 ± 804 |
| Cabbage | 08/31/20 | < 18 | < 21 | < 19 | < 17 | 3,430 ± 529 |
| Collards | 08/31/20 | < 15 | < 18 | < 20 | < 15 | 3,970 ± 540 |
| Kale | 08/31/20 | < 23 | < 23 | < 29 | < 22 | 4,660 ± 741 |

**Oyster Creek Onsite Garden - E (OCVE07)**

| Sample | Collection Date | Co-58 | Co-60 | Cs-134 | Cs-137 | K-40 |
|---|---|---|---|---|---|---|
| Cabbage | 06/16/20 | < 14 | < 14 | < 12 | < 15 | 2,710 ± 436 |
| Collards | 06/16/20 | < 10 | < 14 | < 15 | < 17 | 3,640 ± 527 |
| Kale | 06/16/20 | < 9 | < 11 | < 13 | < 12 | 3,650 ± 504 |
| Cabbage | 07/22/20 | < 14 | < 15 | < 18 | < 18 | 3,550 ± 536 |
| Collards | 07/22/20 | < 13 | < 16 | < 13 | < 17 | 3,560 ± 541 |
| Kale | 07/22/20 | < 16 | < 22 | < 20 | < 16 | 3,080 ± 514 |
| Cabbage | 08/31/20 | < 13 | < 14 | < 12 | < 14 | 1,880 ± 373 |
| Collards | 08/31/20 | < 14 | < 12 | < 15 | 38 ± 14[8] | 2,860 ± 471 |
| Kale | 08/31/20 | < 19 | < 26 | < 21 | < 24 | < 271 |
| Cabbage | 09/23/20 | < 15 | < 21 | < 19 | < 20 | 2,200 ± 443 |
| Collards | 09/23/20 | < 13 | < 13 | < 14 | < 11 | 3,500 ± 461 |
| Cabbage | 10/26/20 | < 16 | < 18 | < 15 | < 16 | 2,190 ± 414 |
| Collards | 10/26/20 | < 15 | < 20 | < 16 | < 18 | 3,020 ± 476 |

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.

[7] No samples from OCVE03 onsite garden available in September and October 2020 due to low yield at gardens
[8] Since the plant has been in Decommissioning since 2018, these trace amounts of Cs-137 are likely attributed to radioactive fallout due to historical nuclear weapons testing and the Chernobyl accident.

**New Jersey Department of Environmental Protection**
**Bureau of Nuclear Engineering**
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**Salem/Hope Creek**
**Results of Analyses of Gamma Emitters in Vegetable Samples**

**Local Farm - NNE (AIVE04)**

| Sample | Collection Date | Co-58 | Co-60 | Cs-134 | Cs-137 | K-40 |
|---|---|---|---|---|---|---|
| Peppers | 07/07/20 | < 22 | < 17 | < 19 | < 17 | 1,570 ± 426 |
| Tomato | 07/07/20 | < 7 | < 7 | < 9 | < 8 | 1,900 ± 275 |
| Corn | 07/07/20 | < 8 | < 11 | <9 | < 11 | 2,000 ± 329 |
| Peach | 07/07/20 | < 9 | < 8 | < 8 | < 8 | 1,720 ± 334 |

**Local Farm - NNE (AIVE05)**

| Sample | Collection Date | Co-58 | Co-60 | Cs-134 | Cs-137 | K-40 |
|---|---|---|---|---|---|---|
| Asparagus | 05/05/20 | < 10 | < 13 | < 11 | < 11 | 2,400 ± 341 |
| Tomato | 07/07/20 | < 11 | < 16 | < 7 | < 12 | 2,240 ± 374 |
| Peppers | 07/07/20 | < 12 | < 16 | < 14 | < 12 | 1,540 ± 331 |
| Corn | 07/07/20 | < 21 | < 16 | < 23 | < 21 | 2,970 ± 556 |

**Farm Market – NE (AIVE11)**

| Sample | Collection Date | Co-58 | Co-60 | Cs-134 | Cs-137 | K-40 |
|---|---|---|---|---|---|---|
| Asparagus | 05/05/20 | < 8 | < 10 | < 10 | < 9 | 2,820 ± 353 |
| Peppers | 07/07/20 | < 18 | < 28 | < 17 | < 15 | 1,540 ± 402 |
| Cabbage | 07/07/20 | < 17 | < 22 | < 18 | < 14 | 2,490 ± 484 |
| Peach | 07/07/20 | < 13 | < 10 | < 13 | < 10 | 1,240 ± 284 |
| Tomato | 07/07/20 | < 12 | < 9 | < 9 | < 11 | 1,930 ± 337 |
| Corn | 07/07/20 | < 17 | < 19 | < 16 | < 18 | 2,540 ± 443 |

**Onsite – N (AIVE12)**

| Sample | Collection Date | Co-58 | Co-60 | Cs-134 | Cs-137 | K-40 |
|---|---|---|---|---|---|---|
| Broccoli | 07/13/20 | < 13 | < 12 | < 16 | < 13 | 6,610 ± 895 |
| Broccoli | 08/31/20 | < 11 | < 15 | < 13 | < 15 | 4,450 ± 541 |
| Lambs Ear | 08/31/20 | < 30 | < 33 | < 34 | < 32 | 7,810 ± 1,110 |

**Onsite - NNW (AIVE14)**

| Sample | Collection Date | Co-58 | Co-60 | Cs-134 | Cs-137 | K-40 |
|---|---|---|---|---|---|---|
| Hosta | 07/13/20 | < 22 | < 31 | < 28 | < 25 | 4,070 ± 733 |
| Lambs Ear | 07/13/20 | < 37 | < 50 | < 43 | < 39 | 7,000 ± 1,140 |
| Broccoli | 08/31/20 | < 10 | < 13 | < 13 | < 11 | 4,490 ± 572 |
| Lambs Ear | 08/31/20 | < 31 | < 31 | < 33 | < 33 | 7,260 ± 990 |

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**
**2020 Radiological Environmental Monitoring Program**

**Salem/Hope Creek**
**Results of Analyses of Gamma Emitters in Vegetable Samples**

**Private Farm – SSW (AIVE15)**

| Sample | Collection Date | Co-58 | Co-60 | Cs-134 | Cs-137 | K-40 |
|---|---|---|---|---|---|---|
| Hosta | 07/13/20 | < 23 | < 28 | < 31 | < 24 | 3,860 ± 809 |
| Lambs Ear | 07/13/20 | < 30 | < 33 | < 31 | < 26 | 5,570 ± 791 |
| Broccoli | 08/31/20 | < 16 | < 19 | < 17 | < 15 | 4,010 ± 597 |
| Lambs Ear | 08/31/20 | < 24 | < 30 | < 32 | < 27 | 10,600 ± 1,330 |
| Hosta | 08/31/20 | < 20 | < 23 | < 24 | < 22 | 3,980 ± 614 |

**Private Farm – S (AIVE16)**

| Sample | Collection Date | Co-58 | Co-60 | Cs-134 | Cs-137 | K-40 |
|---|---|---|---|---|---|---|
| Tomato | 07/29/20 | < 8 | < 13 | < 13 | < 11 | 1,980 ± 331 |

**Private Farm – NNE (AIVE18)**

| Sample | Collection Date | Co-58 | Co-60 | Cs-134 | Cs-137 | K-40 |
|---|---|---|---|---|---|---|
| Asparagus | 05/05/20 | < 9 | < 11 | < 9 | < 9 | 2,460 ± 325 |
| Peppers | 07/07/20 | < 14 | < 22 | < 20 | < 13 | 1,620 ± 379 |
| Peach | 07/29/20 | < 8 | < 8 | < 8 | < 10 | 1,540 ± 259 |
| Tomato | 07/29/20 | < 11 | < 13 | < 8 | < 9 | 2,740 ± 415 |
| Corn | 07/29/20 | < 14 | < 12 | < 17 | < 13 | 2,330 ± 395 |

**Private Farm – NW (AIVE22)**

| Sample | Collection Date | Co-58 | Co-60 | Cs-134 | Cs-137 | K-40 |
|---|---|---|---|---|---|---|
| Corn | 07/29/20 | < 10 | < 11 | < 9 | < 10 | 2,920 ± 373 |

**Onsite - SE (AIVE25)**

| Sample | Collection Date | Co-58 | Co-60 | Cs-134 | Cs-137 | K-40 |
|---|---|---|---|---|---|---|
| Lambs Ear | 07/29/20 | < 24 | < 27 | < 30 | < 27 | 11,300 ± 1,360 |
| Broccoli | 08/31/20 | < 9 | < 14 | < 12 | < 9 | 5,380 ± 645 |
| Lambs Ear | 08/31/20 | < 12 | < 19 | < 13 | < 13 | 7,770 ± 942 |

**Onsite - NW (AIVE26)**

| Sample | Collection Date | Co-58 | Co-60 | Cs-134 | Cs-137 | K-40 |
|---|---|---|---|---|---|---|
| Hosta | 07/13/20 | < 20 | < 32 | < 27 | < 27 | 4,780 ± 751 |
| Broccoli | 08/31/20 | < 22 | < 23 | < 25 | < 20 | 3,690 ± 673 |
| Lambs Ear | 08/31/20 | < 27 | < 39 | < 31 | < 28 | 8,650 ± 1,180 |
| Hosta | 08/31/20 | < 26 | < 27 | < 30 | < 31 | 4,480 ± 788 |

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**
**2020 Radiological Environmental Monitoring Program**

**BNE Background Location**
**Results of Analyses of Gamma Emitters and Strontium in Milk Samples**

**State of New Jersey Dairy Farm (COMI01)**[9]

| Collection Date | Cs-137 | I-131 | K-40 | Sr-89 | Sr-90 |
|---|---|---|---|---|---|
| 03/09/20 | < 1.84 | < 0.61 | 1,260 ± 142 | < 0.90 | < 0.86 |

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.

[9] No samples collected from the second to fourth quarter as the farm suspended all activities due to the Covid-19 Pandemic travel restrictions placed on BNE staff.

**New Jersey Department of Environmental Protection**
**Bureau of Nuclear Engineering**
**2020 Radiological Environmental Monitoring Program**

**Salem/Hope Creek**
**Results of Analyses of Gamma Emitters and Strontium in Milk Samples**

**Private Farm – NNE (AIMI01)**

| Collection Date | Cs-137 | I-131 | K-40 | Sr-89 | Sr-90 |
|---|---|---|---|---|---|
| 01/06/20 | < 1.77 | < 0.77 | 1,670 ± 212 | < 0.87 | < 0.89 |
| 02/03/20 | < 1.63 | < 0.75 | 1,830 ± 174 | < 0.90 | < 0.98 |
| 03/03/20 | < 2.84 | < 0.63 | 1,510 ± 179 | < 0.94 | < 0.86 |
| 04/06/20 | < 2.10 | < 0.60 | 1,530 ± 175 | < 1.46 | < 1.18 |
| 05/04/20 | < 1.59 | < 0.46 | 1,630 ± 173 | < 0.84 | < 0.85 |
| 06/08/20 | < 1.63 | < 0.47 | 1,340 ± 127 | < 0.55 | < 0.91 |
| 07/06/20 | < 1.58 | < 0.61 | 1,520 ± 163 | < 0.93 | < 0.63 |
| 07/20/20 | < 1.87 | < 0.63 | 1,890 ± 185 | < 0.83 | < 0.89 |
| 08/03/20 | < 2.73 | < 0.49 | 1,290 ± 162 | < 0.91 | < 0.95 |
| 09/08/20 | < 1.75 | < 0.57 | 1,470 ± 146 | < 0.91 | < 0.92 |
| 10/05/20 | < 1.65 | < 0.99 | 1,560 ± 156 | < 0.83 | < 0.93 |
| 11/02/20 | < 1.99 | < 0.47 | 1,330 ± 143 | < 2.14[6] | < 0.81 |
| 12/07/20 | < 2.02 | < 0.57 | 1,780 ± 203 | < 0.56 | < 0.96 |

**Private Farm – WNW (AIMI03)**[10]

| Collection Date | Cs-137 | I-131 | K-40 | Sr-89 | Sr-90 |
|---|---|---|---|---|---|
| 01/06/20 | < 2.01 | < 0.66 | 1,410 ± 153 | < 0.91 | < 0.94 |
| 02/03/20 | < 1.77 | < 0.67 | 1,940 ± 198 | < 0.91 | < 0.67 |
| 03/03/20 | < 2.98 | < 0.53 | 1,280 ± 146 | < 0.86 | < 0.92 |
| 07/20/20 | < 2.24 | < 0.67 | 1,900 ± 204 | < 0.85 | < 0.91 |
| 08/03/20 | < 2.13 | < 0.62 | 1,570 ± 190 | < 0.84 | < 0.95 |
| 09/08/20 | < 1.57 | < 0.46 | 1,340 ± 134 | < 0.91 | < 0.94 |
| 10/05/20 | < 1.88 | < 0.95 | 1,410 ± 136 | < 0.83 | < 0.92 |
| 11/02/20 | < 1.99 | < 0.43 | 1,380 ± 161 | < 2.07 | < 0.77 |
| 12/07/20 | < 1.74 | < 0.72 | 1,290 ± 135 | < 0.36 | < 0.50 |

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

[10] No samples collected from April through June 2020 as the farm suspended all activities due to the Covid-19 Pandemic travel restrictions placed on BNE staff.

**New Jersey Department of Environmental Protection**
**Bureau of Nuclear Engineering**
**2020 Radiological Environmental Monitoring Program**

**Salem/Hope Creek**
**Results of Analyses of Gamma Emitters and Strontium in Milk Samples**

**Private Farm – W (AIMI04)**[11]

| Collection Date | Cs-137 | I-131 | K-40 | Sr-89 | Sr-90 |
|---|---|---|---|---|---|
| 01/06/20 | < 2.16 | < 0.70 | 1,480 ± 190 | < 0.88 | < 0.89 |
| 02/03/20 | < 2.10 | < 0.71 | 1,800 ± 172 | < 0.91 | < 0.95 |
| 03/03/20 | < 2.90 | < 0.53 | 1,450 ± 160 | < 0.97 | < 0.91 |
| 07/20/20 | < 2.66 | < 0.60 | 1,930 ± 236 | < 0.84 | < 0.90 |
| 08/03/20 | < 2.92 | < 0.51 | 1,210 ± 147 | < 0.88 | < 0.96 |
| 09/08/20 | < 1.65 | < 0.57 | 1,560 ± 162 | < 0.79 | < 0.93 |
| 10/05/20 | < 1.62 | < 0.58 | 1,570 ± 152 | < 1.69 | < 0.94 |
| 11/02/20 | < 1.91 | < 0.48 | 1,390 ± 150 | < 1.91 | < 0.72 |
| 12/07/20 | < 2.04 | < 0.79 | 1,490 ± 142 | < 2.43 | < 0.75 |

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

[11] No samples collected from April through July 2020 as the farm suspended all activities due to Covid-19 Pandemic travel restrictions placed on BNE staff.

**New Jersey Department of Environmental Protection**
**Bureau of Nuclear Engineering**
**2020 Radiological Environmental Monitoring Program**

## Oyster Creek
## Results of Analyses 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 |
|---|---|---|---|---|---|---|
| 06/01/20 | < 1.64 | < 1.78 | < 1.98 | < 2.02 | < 230 | < 0.89 |
| 10/20/20 | < 1.67 | < 1.87 | < 1.82 | < 1.90 | < 195 | No Data[12] |

**Great Bay / Little Egg Harbor (OCSW02)**

| Collection Date | Co-58 | Co-60 | Cs-134 | Cs-137 | H-3 | I-131 |
|---|---|---|---|---|---|---|
| 01/08/20 – 01/29/20 | < 1.49 | < 1.38 | < 1.56 | < 1.37 | < 241 | < 1.65 |
| 02/04/20 – 02/25/20 | < 1.42 | < 1.34 | < 1.38 | < 1.23 | < 196 | < 4.07 |
| 03/03/20 – 03/30/20 | < 1.17 | < 1.33 | < 1.36 | < 1.20 | < 191 | < 1.65 |
| 04/27/20[13] | < 1.54 | < 1.68 | < 1.62 | < 1.57 | < 264 | < 0.82 |
| 05/27/20 | < 1.32 | < 1.58 | < 1.50 | < 1.39 | < 232 | < 0.53 |
| 07/01/20 | < 1.95 | < 2.65 | < 2.32 | < 2.12 | < 253 | < 0.91 |
| 07/30/20 | < 1.65 | < 1.79 | < 1.76 | < 1.70 | < 236 | < 0.90 |
| 08/27/20 | < 1.58 | < 1.71 | < 1.87 | < 1.88 | < 236 | < 0.81 |
| 09/25/20 | < 1.67 | < 2.23 | < 2.04 | < 1.84 | < 258 | < 0.80 |
| 10/30/20 | < 1.70 | < 1.74 | < 1.70 | < 1.80 | < 200 | < 0.90 |
| 11/30/20 | < 1.90 | < 2.32 | < 2.17 | < 1.93 | < 255 | < 0.93 |
| 12/29/20 | < 1.61 | < 1.73 | < 2.11 | < 1.96 | < 185 | < 0.93 |

Results in picoCuries per Liter (pCi/L)

[12] Radiochemical analysis for I-131 not performed as plant is in Decommissioning and no longer producing fission products.
[13] Monthly grab samples commence. Prior split samples were monthly composites of weekly grab samples.

**New Jersey Department of Environmental Protection**
**Bureau of Nuclear Engineering**
**2020 Radiological Environmental Monitoring Program**

**Oyster Creek**
**Results of Analyses of Gamma Emitters and Tritium (H-3) in Surface Water (continued)**

**Stouts Creek (OCSW03)**

| Collection Date | Co-58 | Co-60 | Cs-134 | Cs-137 | H-3 | I-131 |
|---|---|---|---|---|---|---|
| 06/01/20 | < 1.71 | < 1.79 | < 1.93 | < 1.60 | < 230 | < 0.95 |
| 10/19/20 | < 1.21 | < 1.47 | < 1.46 | < 1.43 | < 205 | No Data[14] |

**Oyster Creek Discharge Canal (OCSW04)**

| Collection Date | Co-58 | Co-60 | Cs-134 | Cs-137 | H-3 | I-131 |
|---|---|---|---|---|---|---|
| 01/08/20 – 01/29/20 | < 1.65 | < 1.36 | < 1.74 | < 1.51 | < 236 | < 0.89 |
| 02/04/20 – 02/25/20 | < 1.44 | < 1.43 | < 1.56 | < 1.32 | < 194 | < 2.17 |
| 03/03/20 – 03/30/20 | < 1.40 | < 1.43 | < 1.30 | < 1.26 | < 190 | < 1.95 |
| 04/27/20[15] | < 1.78 | < 1.99 | < 1.78 | < 1.83 | < 262 | < 0.70 |
| 05/27/20 | < 1.17 | < 1.39 | < 1.38 | < 1.09 | < 225 | < 0.53 |
| 07/01/20 | < 1.39 | < 1.80 | < 1.64 | < 1.19 | < 253 | < 0.88 |
| 07/30/20 | < 1.60 | < 1.76 | < 2.02 | < 1.87 | < 232 | < 0.81 |
| 08/27/20 | < 1.64 | < 2.30 | < 1.88 | < 1.74 | < 242 | < 0.89 |
| 09/25/20 | < 1.68 | < 1.80 | < 1.92 | < 1.61 | < 241 | < 0.78 |
| 10/30/20 | < 2.16 | < 2.31 | < 1.98 | < 2.37 | < 201 | < 0.87 |
| 11/30/20 | < 1.72 | < 2.03 | < 2.06 | < 1.74 | < 256 | < 0.86 |
| 12/29/20 | < 1.97 | < 1.88 | < 1.98 | < 1.82 | < 209 | < 0.94 |

Results in picoCuries per Liter (pCi/L)

[14] Radiochemical analysis for I-131 not performed as plant is in Decommissioning and no longer producing fission products.
[15] Monthly grab sample collection commences at Oyster Creek. Prior split samples were monthly composites of weekly grab samples.

**New Jersey Department of Environmental Protection**
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**Salem/Hope Creek**
**Results of Analyses 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 |
|---|---|---|---|---|---|---|
| 01/07/20 | < 1.24 | < 1.25 | < 1.18 | < 1.20 | < 241 | < 0.84 |
| 01/22/20 | < 1.36 | < 1.63 | < 1.60 | < 1.49 | < 217 | < 0.91 |
| 02/03/20 | < 1.72 | < 1.89 | < 1.90 | < 1.67 | < 198 | < 0.86 |
| 02/18/20 | < 1.53 | < 1.47 | < 1.58 | < 1.50 | < 207 | < 0.81 |
| 03/03/20 | < 1.32 | < 1.55 | < 1.66 | < 1.58 | < 193 | < 0.86 |
| 03/17/20 | < 1.44 | < 1.53 | < 1.46 | < 1.54 | < 224 | < 0.80 |
| 04/06/20 | < 1.86 | < 1.80 | < 2.05 | < 1.81 | < 228 | < 0.89 |
| 04/20/20 | < 1.63 | < 2.01 | < 1.80 | < 1.67 | 1,110 ± 282[16] | < 0.85 |
| 05/05/20 | < 1.22 | < 1.31 | < 1.41 | < 1.25 | < 231 | < 0.85 |
| 05/21/20 | < 1.32 | < 1.57 | < 1.65 | < 1.90 | < 193 | < 0.85 |
| 06/09/20 | < 1.48 | < 1.87 | < 1.86 | < 1.64 | < 206 | < 0.87 |
| 06/26/20 | < 1.35 | < 1.87 | < 1.64 | < 1.49 | < 251 | < 0.83 |
| 07/07/20 | < 1.45 | < 1.77 | < 1.72 | < 1.41 | < 220 | < 0.76 |
| 07/21/20 | < 1.42 | < 1.56 | < 1.62 | < 1.56 | < 247 | < 0.82 |
| 08/07/20 | < 1.58 | < 1.42 | < 1.46 | < 1.40 | < 241 | < 0.84 |
| 08/17/20 | < 1.96 | < 1.92 | < 1.77 | < 1.78 | < 241 | < 0.76 |
| 09/09/20 | < 1.47 | < 1.53 | < 1.68 | < 1.49 | < 235 | < 0.87 |
| 09/24/20 | < 1.70 | < 1.78 | < 2.13 | < 2.00 | < 242 | < 0.69 |
| 10/08/20 | < 1.37 | < 1.49 | < 1.78 | < 1.39 | < 194 | < 0.95 |
| 10/23/20 | < 1.48 | < 1.50 | < 1.53 | < 1.38 | < 188 | < 0.93 |
| 11/05/20 | < 2.14 | < 3.01 | < 2.10 | < 2.37 | < 203 | < 0.88 |
| 11/19/20 | < 1.30 | < 1.23 | < 1.40 | < 1.21 | < 264 | < 0.74 |
| 12/10/20 | < 1.39 | < 1.45 | < 1.51 | < 1.44 | < 233 | < 0.91 |
| 12/21/20 | < 1.61 | < 1.78 | < 1.63 | < 1.76 | < 239 | < 0.87 |

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

[16] The Plant Discharge Outfall Area (AISW01) is in the vicinity of 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 1,110 pCi/Lis approximately 6 percent of the applicable limit.

**New Jersey Department of Environmental Protection**
**Bureau of Nuclear Engineering**
**2020 Radiological Environmental Monitoring Program**

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

**West Bank – Delaware River (AISW02)**

| Collection Date | Co-58 | Co-60 | Cs-134 | Cs-137 | H-3 | I-131 |
|---|---|---|---|---|---|---|
| 01/07/20 | < 1.23 | < 1.53 | < 1.46 | < 1.38 | < 242 | < 0.96 |
| 01/22/20 | < 1.55 | < 1.76 | < 1.84 | < 1.84 | < 230 | < 0.91 |
| 02/03/20 | < 1.30 | < 1.52 | < 1.45 | < 1.64 | < 235 | < 0.89 |
| 02/18/20 | < 1.54 | < 1.52 | < 1.51 | < 1.32 | < 211 | < 0.65 |
| 03/03/20 | < 1.51 | < 1.41 | < 1.64 | < 1.51 | < 191 | < 0.87 |
| 03/17/20 | < 1.70 | < 1.55 | < 1.49 | < 2.07 | < 227 | < 0.88 |
| 04/06/20 | < 1.75 | < 1.98 | < 1.68 | < 1.74 | < 216 | < 0.81 |
| 04/20/20 | < 1.37 | < 1.63 | < 1.66 | < 1.44 | < 234 | < 0.91 |
| 05/05/20 | < 1.38 | < 1.57 | < 1.47 | < 1.54 | < 239 | < 0.89 |
| 05/21/20 | < 1.23 | < 1.43 | < 1.55 | < 1.50 | < 192 | < 0.82 |
| 06/09/20 | < 1.45 | < 1.55 | < 1.63 | < 1.59 | < 207 | < 0.87 |
| 06/26/20 | < 1.78 | < 1.96 | < 1.71 | < 1.68 | < 242 | < 0.89 |
| 07/07/20 | < 1.25 | < 1.33 | < 1.38 | < 1.83 | < 235 | < 0.81 |
| 07/21/20 | < 1.18 | < 1.40 | < 1.51 | < 1.41 | < 251 | < 0.80 |
| 08/07/20 | < 1.75 | < 1.81 | < 1.81 | < 1.75 | < 248 | < 0.71 |
| 08/17/20 | < 1.42 | < 1.48 | < 1.59 | < 1.60 | < 237 | < 0.65 |
| 09/09/20 | < 1.47 | < 1.45 | < 1.65 | < 1.40 | < 238 | < 0.85 |
| 09/24/20 | < 1.29 | < 1.38 | < 1.22 | < 1.32 | < 245 | < 0.80 |
| 10/08/20 | < 1.69 | < 1.47 | < 1.65 | < 1.59 | < 194 | < 0.92 |
| 10/23/20 | < 1.37 | < 1.63 | < 1.65 | < 1.51 | < 193 | < 0.93 |
| 11/05/20 | < 1.65 | < 1.79 | < 1.69 | < 1.83 | < 201 | < 0.86 |
| 11/19/20 | < 1.14 | < 1.26 | < 1.14 | < 1.25 | < 259 | < 0.90 |
| 12/10/20 | < 1.27 | < 1.39 | < 1.34 | < 1.32 | < 231 | < 0.89 |
| 12/21/20 | < 1.38 | < 1.45 | < 1.54 | < 1.44 | < 258 | < 0.76 |

Results in picoCuries per Liter (pCi/L)

**New Jersey Department of Environmental Protection**
**Bureau of Nuclear Engineering**
**2020 Radiological Environmental Monitoring Program**

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

**Delaware River - One Mile West of Mad Horse Creek (AISW03)**

| Collection Date | Co-58 | Co-60 | Cs-134 | Cs-137 | H-3 | I-131 |
|---|---|---|---|---|---|---|
| 01/07/20 | < 1.26 | < 1.37 | < 1.43 | < 1.31 | < 233 | < 0.90 |
| 01/22/20 | < 1.57 | < 1.91 | < 2.06 | < 1.65 | < 221 | < 0.94 |
| 02/03/20 | < 1.42 | < 1.60 | < 1.58 | < 1.48 | < 233 | < 0.93 |
| 02/18/20 | < 1.75 | < 1.87 | < 1.61 | < 1.93 | < 211 | < 0.58 |
| 03/03/20 | < 1.54 | < 1.58 | < 1.63 | < 1.39 | < 190 | < 0.86 |
| 03/17/20 | < 1.92 | < 1.94 | < 1.96 | < 1.96 | < 225 | < 0.75 |
| 04/06/20 | < 1.61 | < 1.68 | < 1.68 | < 1.63 | < 255 | < 0.72 |
| 04/20/20 | < 1.86 | < 2.08 | < 2.14 | < 2.00 | < 235 | < 0.76 |
| 05/05/20 | < 1.32 | < 1.41 | < 1.48 | < 1.26 | < 235 | < 0.87 |
| 05/21/20 | < 1.34 | < 1.63 | < 1.68 | < 1.48 | < 191 | < 0.85 |
| 06/09/20 | < 1.59 | < 1.59 | < 1.69 | < 1.60 | < 204 | < 0.83 |
| 06/26/20 | < 1.86 | < 1.88 | < 2.11 | < 1.79 | < 256 | < 0.91 |
| 07/07/20 | < 1.31 | < 1.39 | < 1.36 | < 1.31 | < 229 | < 0.94 |
| 07/21/20 | < 1.88 | < 1.99 | < 2.08 | < 1.92 | < 232 | < 0.82 |
| 08/07/20 | < 1.57 | < 1.89 | < 1.81 | < 1.73 | < 252 | < 0.86 |
| 08/17/20 | < 1.60 | < 1.69 | < 1.83 | < 1.59 | < 238 | < 0.69 |
| 09/09/20 | < 1.26 | < 1.30 | < 1.39 | < 1.26 | < 235 | < 0.89 |
| 09/24/20 | < 1.92 | < 2.03 | < 2.21 | < 2.06 | < 240 | < 0.77 |
| 10/08/20 | < 1.50 | < 1.57 | < 1.75 | < 1.64 | < 192 | < 0.68 |
| 10/23/20 | < 1.28 | < 1.59 | < 1.50 | < 1.42 | < 197 | < 0.93 |
| 11/05/20 | < 1.64 | < 1.50 | < 1.48 | < 1.41 | < 203 | < 0.89 |
| 11/19/20 | < 1.51 | < 1.52 | < 1.57 | < 1.62 | < 265 | < 0.93 |
| 12/10/20 | < 1.31 | < 1.37 | < 1.44 | < 1.35 | < 230 | < 0.88 |
| 12/21/20 | < 1.39 | < 1.52 | < 1.41 | < 1.36 | < 229 | < 0.78 |

Results in picoCuries per Liter (pCi/L)

**New Jersey Department of Environmental Protection**
**Bureau of Nuclear Engineering**
**2020 Radiological Environmental Monitoring Program**

## Oyster Creek
## Results of Analyses of Gamma Emitters and Tritium (H-3) in Well Water[17]

**Oyster Creek Administration Building Onsite (OCWW01)[18]**

| Collection Date | Co-58 | Co-60 | Cs-134 | Cs-137 | H-3 | I-131 |
|---|---|---|---|---|---|---|
| 01/22/20 | < 1.43 | < 1.98 | < 1.72 | < 1.45 | < 217 | < 0.81 |
| 09/29/20 | < 1.95 | < 2.34 | < 2.24 | < 2.21 | < 250 | < 0.68 |

**Forked River Marina (OCWW02)**

| Collection Date | Co-58 | Co-60 | Cs-134 | Cs-137 | H-3 | I-131 |
|---|---|---|---|---|---|---|
| 01/22/20 | < 1.66 | < 1.86 | < 1.74 | < 1.68 | < 219 | < 0.62 |
| 06/29/20 | < 1.19 | < 1.57 | < 1.48 | < 1.32 | < 225 | < 0.93 |
| 09/29/20 | < 2.00 | < 2.30 | < 2.17 | < 2.19 | < 249 | < 0.68 |

**Lacey MUA Pumping Station (OCWW03)**

| Collection Date | Co-58 | Co-60 | Cs-134 | Cs-137 | H-3 | I-131 |
|---|---|---|---|---|---|---|
| 01/22/20 | < 1.85 | < 1.88 | < 1.96 | < 1.94 | < 223 | < 0.88 |
| 06/29/20 | < 1.29 | < 1.49 | < 1.57 | < 1.99 | < 223 | < 0.71 |
| 09/29/20 | < 1.43 | < 1.42 | < 1.71 | < 1.81 | < 233 | < 0.63 |

**Ocean Township MUA Pumping Station (OCWW04)**

| Collection Date | Co-58 | Co-60 | Cs-134 | Cs-137 | H-3 | I-131 |
|---|---|---|---|---|---|---|
| 01/22/20 | < 1.61 | < 1.80 | < 1.84 | < 1.72 | < 231 | < 0.74 |
| 06/29/20 | < 1.41 | < 1.71 | < 1.61 | < 1.51 | < 220 | < 0.61 |
| 09/29/20 | < 1.66 | < 1.71 | < 1.57 | < 2.18 | < 258 | < 0.50 |

Results in picoCuries per Liter (pCi/L)

[17] No samples collected during fourth quarter 2020 due to Covid-19 Pandemic travel restrictions placed on BNE staff.
[18] No sample collected onsite at Oyster Creek in June 2020 due to Covid-19 Pandemic travel restrictions placed on BNE staff.

**New Jersey Department of Environmental Protection**
**Bureau of Nuclear Engineering**
**2020 Radiological Environmental Monitoring Program**

**Salem/Hope Creek**
**Results of Analyses of Gamma Emitters and Tritium (H-3) in Well Water**[19]

**Elsinboro School (AIWW01)**

| Collection Date | Co-58 | Co-60 | Cs-134 | Cs-137 | H-3 | I-131 |
|---|---|---|---|---|---|---|
| 01/22/20 | < 1.20 | < 1.92 | < 1.81 | < 1.59 | < 225 | < 0.73 |
| 06/29/20 | < 1.46 | < 1.59 | < 1.80 | < 1.56 | < 235 | < 0.54 |
| 09/29/20 | < 1.62 | < 1.55 | < 1.65 | < 1.61 | < 225 | < 0.83 |

**Lower Alloways Creek Police Station (AIWW02)**

| Collection Date | Co-58 | Co-60 | Cs-134 | Cs-137 | H-3 | I-131 |
|---|---|---|---|---|---|---|
| 01/22/20 | < 1.46 | < 1.62 | < 1.48 | < 1.48 | < 229 | < 0.71 |
| 06/29/20 | < 1.37 | < 1.69 | < 1.70 | < 1.54 | < 221 | < 0.60 |
| 09/29/20 | < 1.63 | < 1.80 | < 2.02 | < 1.74 | < 224 | < 0.92 |

**Salem Processing Center (AIWW03)**

| Collection Date | Co-58 | Co-60 | Cs-134 | Cs-137 | H-3 | I-131 |
|---|---|---|---|---|---|---|
| 01/22/20 | < 1.19 | < 1.35 | < 1.47 | < 1.34 | < 225 | < 0.85 |
| 06/29/20 | < 1.37 | < 1.35 | < 1.54 | < 1.40 | < 230 | < 0.45 |
| 07/01/20[20] | < 1.52 | < 1.65 | < 1.81 | < 1.66 | < 249 | < 0.87 |
| 09/29/20 | < 1.70 | < 1.59 | < 1.87 | < 1.62 | < 218 | < 0.83 |

**Lower Alloways Creek School (AIWW04)**

| Collection Date | Co-58 | Co-60 | Cs-134 | Cs-137 | H-3 | I-131 |
|---|---|---|---|---|---|---|
| 01/22/20 | < 2.04 | < 2.33 | < 2.47 | < 2.21 | < 215 | < 0.95 |
| 06/29/20 | < 1.29 | < 1.65 | < 1.36 | < 1.23 | < 234 | < 0.99 |
| 09/29/20 | < 1.37 | < 1.72 | < 1.75 | < 1.70 | < 232 | < 0.95 |

**City of Salem Water & Sewage Department (AIWW05)**

| Collection Date | Co-58 | Co-60 | Cs-134 | Cs-137 | H-3 | I-131 |
|---|---|---|---|---|---|---|
| 01/22/20 | < 1.48 | < 1.72 | < 1.53 | < 1.58 | < 240 | < 0.83 |
| 06/29/20 | < 1.39 | < 1.53 | < 1.66 | < 1.57 | < 226 | < 0.57 |
| 09/29/20 | < 1.52 | < 1.79 | < 1.67 | < 1.68 | < 240 | < 0.68 |

Results in picoCuries per Liter (pCi/L)

[19] No samples collected during fourth quarter 2020 due to Covid-19 Pandemic travel restrictions placed on BNE staff.
[20] A second sample was taken at this location and both results were reported.

**New Jersey Department of Environmental Protection**
**Bureau of Nuclear Engineering**
**2020 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 | 16.7 | 1.7 | 14.8 | 4.4 | 12.2 | 7.1 | 13.3 | 6.0 |
| CO02 | Brendan T. Byrne State Forest, New Lisbon, NJ | 13.5 | 2.8 | 11.8 | 3.5 | 11.7 | 5.2 | 11.3 | 6.7 |

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**
**2020 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 | 11.7 | 4.9 | 10.9 | 2.2 | 11.8 | 4.2 | 10.4 | 7.6 |
| 2 | Ocean Twp. Municipal Building | 13.5 | 3.1 | 12.1 | 1.4 | 14.0 | 7.1 | 10.1 | 5.0 |
| 3 | Sewage Pumping Station, Forked River | 15.6 | 6.8 | 13.2 | 3.4 | 12.7 | 5.5 | 11.6 | 7.4 |
| 4 | Twin River Station, Forked River | 12.2 | 2.5 | 11.1 | 4.6 | 10.5 | 5.4 | 10.1 | 6.2 |
| 5 | Sewage Pumping Station, Ocean Twp. | 13.2 | 3.0 | 11.8 | 3.3 | 12.2 | 7.7 | 10.2 | 2.5 |
| 6 | Oyster Creek, Gate #2, Forked River | 13.1 | 3.5 | 16.2 | 2.5 | 12.2 | 3.7 | 11.2 | 4.0 |
| 7 | Finninger Farm, Forked River | 12.0 | 4.0 | 10.4 | 3.2 | 12.5 | 6.6 | 9.3 | 4.5 |
| 8 | Ocean Co. Memorial Cemetery, Waretown | 12.3 | 2.4 | 10.4 | 6.5 | 10.0 | 7.5 | 12.3 | 5.6 |
| 9 | Oyster Creek Building 17, Forked River | 13.7 | 3.3 | 12.1 | 5.3 | 12.2 | 11.4 | 10.6 | 7.7 |
| 10 | Sheffield & Derby Rd, Forked River | 12.9 | 2.9 | 11.5 | 4.6 | 12.6 | 5.1 | 10.6 | 6.2 |
| 11 | Lakeside Drive, Forked River | 13.4 | 1.0 | 11.4 | 2.9 | 11.6 | 4.1 | 10.2 | 7.7 |
| 12 | Forked River Game Farm, Forked River | 13.2 | 3.0 | 12.4 | 6.4 | 10.6 | 2.6 | 11.9 | 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**
**2020 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 | 13.1 | 5.0 | 10.9 | 2.2 | 11.5 | 4.1 | 10.1 | 5.0 |
| 14 | Sands Pt. Park, Dock Ave., Waretown | 13.6 | 4.5 | 12.6 | 2.6 | 11.5 | 6.2 | 11.7 | 3.7 |
| 15 | Recreation Center, Waretown | 12.5 | 6.6 | 10.8 | 0.6 | 10.0 | 4.4 | 10.0 | 6.2 |
| 16 | North Access Rd., Forked River | 13.1 | 2.1 | 11.2 | 6.3 | 11.1 | 2.0 | 10.6 | 3.9 |
| 20 | Third Avenue, Barnegat Light | 11.8 | 1.9 | *No Data* | *No Data* | 9.6 | 2.0 | 10.3 | 3.1 |
| 21 | Rose Hill Road & Barnegat Blvd | 13.7 | 2.9 | *No Data* | *No Data* | 11.6 | 4.0 | 10.4 | 4.5 |
| 22 | Bay Way & Clairmore Avenue | 13.2 | 3.6 | *No Data* | *No Data* | 12.1 | 6.4 | 10.0 | 3.9 |
| 23 | Island Beach State Park, Parking Lot A5 | 12.3 | 2.0 | *No Data* | *No Data* | 10.5 | 3.4 | 9.3 | 7.6 |
| 24 | Forked River Site Access Rd. (N) | 16.8 | 2.8 | 14.3 | 3.3 | 13.3 | 5.1 | 12.7 | 6.5 |
| 25 | Forked River Site Access Rd. NNW) | 17.2 | 2.1 | 16.2 | 4.6 | 13.5 | 3.9 | 12.9 | 8.4 |
| 26 | Forked River Site Access Rd. (NW) | 14.7 | 4.9 | 13.6 | 4.2 | 12.8 | 1.8 | 12.8 | 7.5 |
| 27 | Southern Area Stores Fence, FR Site | 18.7 | 2.2 | 17.9 | 3.3 | 15.2 | 1.4 | 13.9 | 3.9 |

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 90 days (a standard quarter).

No Data collection/deployment during 2nd Quarter 2020 due to limited sampling during Covid-19 pandemic

**New Jersey Department of Environmental Protection**
**Bureau of Nuclear Engineering**
**2020 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** |
| 28 | Southern Area Stores, FR Site (WSW) | 16.4 | 5.8 | 14.9 | 3.2 | 13.4 | 4.6 | 13.5 | 3.6 |
| 29 | Southern Area Stores Access Rd (SSW) | 12.9 | 3.7 | 11.8 | 2.9 | 10.3 | 5.6 | 10.6 | 6.3 |
| 30 | Southern Area Stores Access Road (S) | 15.5 | 3.5 | 13.7 | 5.0 | 15.5 | 6.7 | 11.4 | 6.1 |
| 31 | Southern Area Stores Access Road (SSE) | 14.0 | 1.4 | 14.8 | 3.2 | 14.3 | 5.2 | 11.2 | 10.4 |
| 32 | U.S. Route 9 (ESE) Forked River., NJ | 12.1 | 7.7 | 11.6 | 4.1 | 10.7 | 5.7 | 10.9 | 5.5 |
| 33 | U.S. Route 9 (NE) Forked River, NJ | 13.2 | 2.8 | 11.9 | 1.8 | 11.6 | 4.8 | 11.7 | 7.2 |
| 34 | Garden St Pkwy Svc. Forked River, NJ | *No Data* | *No Data* | *No Data* | *No Data* | 13.3 | 7.5 | 11.7 | 3.6 |
| 35 | U.S. Route 9 & Harbor Inn Rd, Bayville, NJ | 14.4 | 5.8 | *No Data* | *No Data* | 11.2 | 2.2 | 11.6 | 6.3 |
| 36 | Orlando Dr. & Penguin Ct., Forked River, NJ | 12.9 | 4.5 | 12.2 | 6.7 | 11.8 | 2.2 | 11.5 | 6.4 |
| 37 | Bay Pkwy, Sands Point, Waretown, NJ | 12.2 | 1.6 | 11.4 | 4.8 | 11.7 | 4.7 | 9.7 | 4.2 |
| 38 | Hightide & Bonita Dr., Waretown, NJ | 14.6 | 6.7 | 12.9 | 3.1 | 13.1 | 2.9 | 12.1 | 1.0 |
| 39 | Brook & School St. Barnegat, NJ | 13.4 | 4.3 | *No Data* | *No Data* | 12.1 | 6.6 | 11.2 | 6.5 |

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).

No Data collection/deployment during 2nd Quarter 2020 due to limited sampling during Covid-19 pandemic. Station OC34 inaccessible for collection/deployment due to facility construction

**New Jersey Department of Environmental Protection**
**Bureau of Nuclear Engineering**
**2020 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** |
| 40 | County Rt. 554, Barnegat, NJ | 14.0 | 1.8 | *No Data* | *No Data* | 12.6 | 2.1 | 10.6 | 5.6 |
| 41 | County Rt. 532, Waretown, NJ | 12.0 | 3.5 | *No Data* | *No Data* | 11.2 | 6.3 | 9.9 | 3.0 |
| 42 | Lacey Rd. WEST, Forked River, NJ | 14.6 | 6.6 | *No Data* | *No Data* | 14.3 | 3.0 | 12.4 | 22.6 |
| 43 | U.S. Route 9 (E) Forked River, NJ | 13.5 | 2.8 | 12.5 | 2.5 | 12.5 | 15.7 | 11.9 | 5.8 |

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)

No Data collection/deployment during 2nd Quarter 2020 due to limited sampling during Covid-19 pandemic

**New Jersey Department of Environmental Protection**
**Bureau of Nuclear Engineering**
**2020 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 | 14.6 | 1.5 | 14.4 | 5.5 | 13.6 | 3.4 | 13.5 | 6.8 |
| 2 | Poplar Road, Lower Alloways | 15.0 | 3.2 | 13.3 | 2.0 | 13.1 | 6.8 | 11.2 | 4.3 |
| 3 | Money and Eagle Island Road | 15.7 | 3.4 | 15.0 | 2.9 | 14.9 | 7.1 | 12.2 | 1.1 |
| 4 | Ft. Elfsborg / Hancocks – East | 16.4 | 1.7 | 16.2 | 2.4 | 14.5 | 4.2 | 12.4 | 6.9 |
| 5 | Ft. Elfsborg / Hancocks – West | 20.5 | 3.7 | 19.6 | 3.7 | 17.6 | 6.6 | 17.3 | 2.1 |
| 6 | Stathems Neck Road | 15.2 | 2.8 | 14.2 | 2.9 | 13.0 | 5.4 | 14.5 | 2.7 |
| 7 | Stow Neck Road Lower Alloways | 12.5 | 1.7 | 11.9 | 4.7 | 13.2 | 14.7 | 12.7 | 7.5 |
| 8 | Alloways Creek Neck Road - Middle | 12.6 | 0.7 | 12.3 | 5.2 | 11.2 | 4.8 | 12.2 | 2.0 |
| 9 | Alloways Creek Neck Road - North | 16.3 | 2.2 | 16.8 | 4.7 | 14.1 | 5.9 | 15.3 | 5.0 |
| 10 | Abbotts Farm Road | 10.7 | 3.1 | 11.8 | 2.4 | 11.1 | 5.1 | 12.5 | 10.3 |

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**
**2020 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** |
| 11 | PSEG Education Center/EOF | 16.7 | 2.8 | 14.8 | 3.8 | 14.8 | 4.6 | 12.0 | 3.2 |
| 12 | Onsite Access Rd N Sector | 17.8 | 4.9 | 16.3 | 4.9 | 16.4 | 6.0 | 14.8 | 5.4 |
| 13 | Onsite Laydown Area - NNE Sector | 16.3 | 2.6 | 15.0 | 4.0 | 13.9 | 1.2 | 14.0 | 0.9 |
| 14 | Onsite Utility Pole NE Sector | 14.9 | 2.2 | 13.2 | 4.7 | 14.9 | 1.7 | 12.7 | 7.3 |
| 15 | Onsite Hope Creek Road – ENE Sector | 14.9 | 5.1 | 13.7 | 3.1 | 13.7 | 4.1 | 13.0 | 3.2 |
| 16 | Onsite Parking Lot ESE Sector | 18.1 | 2.4 | 16.7 | 2.5 | 16.0 | 6.9 | 15.4 | 5.3 |
| 17 | Onsite Salem NGS SE Sector | 17.0 | 2.2 | 15.7 | 1.0 | 15.8 | 4.0 | 15.9 | 1.4 |
| 18 | Bayside Road Bayside, NJ | 15.0 | 4.7 | 14.0 | 3.4 | 14.1 | 9.2 | 12.4 | 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**
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**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 | | Mirion | | NJDEP | | Mirion | | NJDEP | | Mirion | | NJDEP | | Mirion | |
| **Station** | **Location** | **Result** | **%CV** | **Result** | **%CV** | **Result** | **%CV** | **Result** | **%CV** | **Result** | **%CV** | **Result** | **%CV** | **Result** | **%CV** | **Result** | **%CV** |
| 5 | Sewage Pump. Station, Ocean Township | 13.2 | 3.0 | 11.5 | 2.9 | 11.8 | 3.3 | 10.2 | 4.2 | 12.2 | 7.7 | 13.1 | 9.1 | 10.2 | 2.5 | 10.6 | 2.5 |
| 7 | Finninger Farm,OCNGS Forked River | 12.0 | 4.0 | 10.8 | 2.8 | 10.4 | 3.2 | 8.7 | 7.4 | 12.5 | 6.6 | 12.0 | 3.7 | 9.3 | 4.5 | 9.2 | 3.8 |
| 13 | Restrooms, Lakeside Dr. Forked River | 13.1 | 5.0 | 10.9 | 8.4 | 10.9 | 2.2 | 10.0 | 6.0 | 11.5 | 4.1 | 12.4 | 4.8 | 10.1 | 5.0 | 10.1 | 9.3 |
| 21 | Rose Hill and Barnegat Rd Barnegat Twp. | 13.7 | 2.9 | 12.3 | 4.5 | *No Data* | *No Data* | 9.6 | 4.2 | 11.6 | 4.0 | 12.6 | 4.7 | 10.4 | 4.5 | 10.5 | 4.2 |

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). No Data during 2nd Quarter due to reduced collection/deployment due to Covid-19 pandemic

**New Jersey Department of Environmental Protection**
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**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 | | Mirion | | NJDEP | | Mirion | | NJDEP | | Mirion | | NJDEP | | Mirion | |
| **Station** | **Location** | **Result** | **%CV** | **Result** | **%CV** | **Result** | **%CV** | **Result** | **%CV** | **Result** | **%CV** | **Result** | **%CV** | **Result** | **%CV** | **Result** | **%CV** |
| 1 | Access Road – Security Checkpoint | 14.6 | 1.5 | 13.4 | 1.7 | 14.4 | 5.5 | 11.0 | 4.0 | 13.6 | 3.4 | 13.4 | 6.2 | 13.5 | 6.8 | 10.6 | 5.6 |
| 2 | Poplar Road, Lower Alloways | 15.0 | 3.2 | 13.7 | 3.0 | 13.3 | 2.0 | 11.9 | 4.5 | 13.1 | 6.8 | 14.5 | 6.9 | 11.2 | 4.3 | 11.4 | 4.5 |
| 3 | Money and Eagle Island Roads | 15.7 | 3.4 | 15.2 | 1.6 | 15.0 | 2.9 | 12.4 | 2.5 | 14.9 | 7.1 | 15.0 | 3.9 | 12.2 | 1.1 | 13.1 | 4.6 |
| 5 | Ft. Elfsborg/ Hancocks - West | 20.5 | 3.7 | 18.4 | 3.2 | 19.6 | 3.7 | 17.1 | 5.0 | 17.6 | 6.6 | 18.5 | 7.4 | 17.3 | 2.1 | 16.3 | 3.4 |

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**
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**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 | | Mirion | | NJDEP | | Mirion | | NJDEP | | Mirion | | NJDEP | | Mirion | |
| **Station** | **Location** | **Result** | **%CV** | **Result** | **%CV** | **Result** | **%CV** | **Result** | **%CV** | **Result** | **%CV** | **Result** | **%CV** | **Result** | **%CV** | **Result** | **%CV** |
| 7 | Stow Neck Road-Lower Alloways | 12.5 | 1.7 | 12.0 | 2.9 | 11.9 | 4.7 | 10.6 | 2.8 | 13.2 | 14.7 | 12.0 | 6.7 | 12.7 | 7.5 | 10.0 | 4.5 |
| 9 | Alloways Creek Neck Road - North | 16.3 | 2.2 | 14.7 | 2.6 | 16.8 | 4.7 | 13.2 | 3.8 | 14.1 | 5.9 | 15.7 | 8.5 | 15.3 | 5.0 | 12.3 | 3.3 |
| 11 | PSEG Ed. Center/EOF Salem City | 16.7 | 2.8 | 14.4 | 3.3 | 14.8 | 3.8 | 12.5 | 5.6 | 14.8 | 4.6 | 13.8 | 6.7 | 12.0 | 3.2 | 13.2 | 8.2 |

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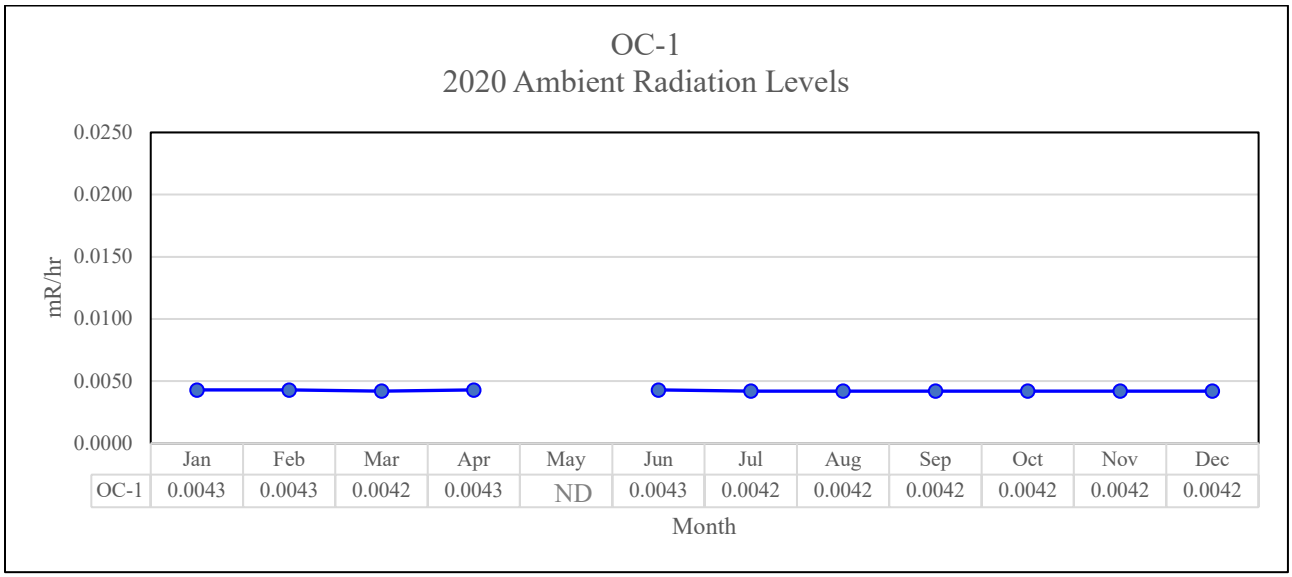
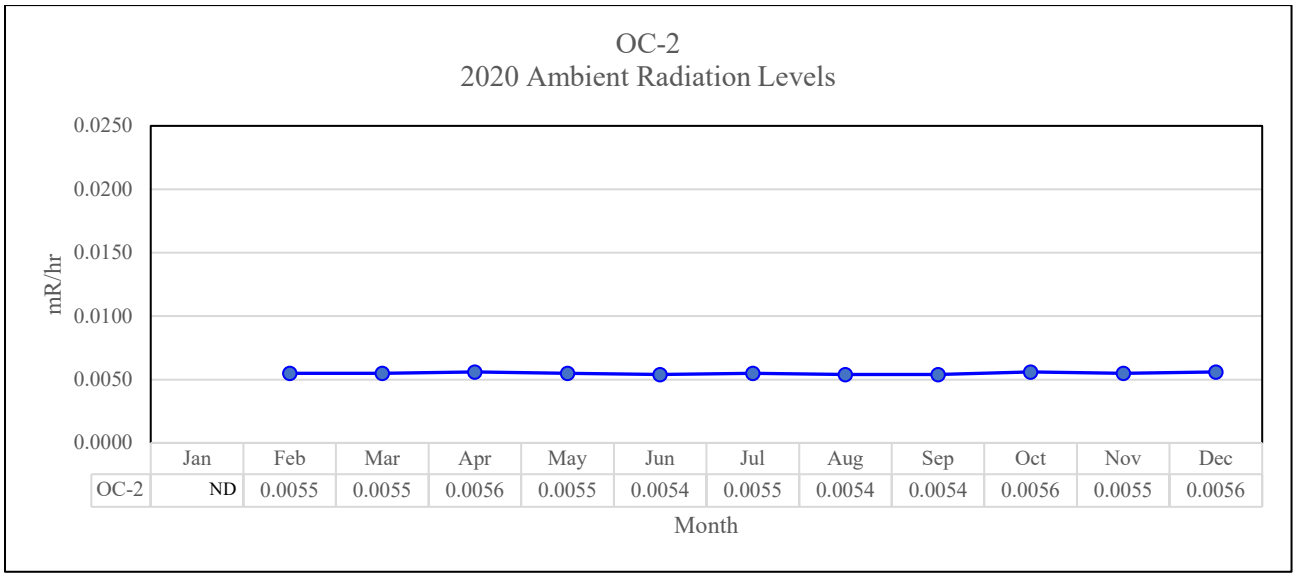
**Oyster Creek**
**Continuous Radiological Environmental Surveillance Telemetry (CREST) Data**




| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OC-1 | 0.0043 | 0.0043 | 0.0042 | 0.0043 | ND | 0.0043 | 0.0042 | 0.0042 | 0.0042 | 0.0042 | 0.0042 | 0.0042 |




| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OC-2 | ND | 0.0055 | 0.0055 | 0.0056 | 0.0055 | 0.0054 | 0.0055 | 0.0054 | 0.0054 | 0.0056 | 0.0055 | 0.0056 |

Note: 'ND' indicates that no data were available

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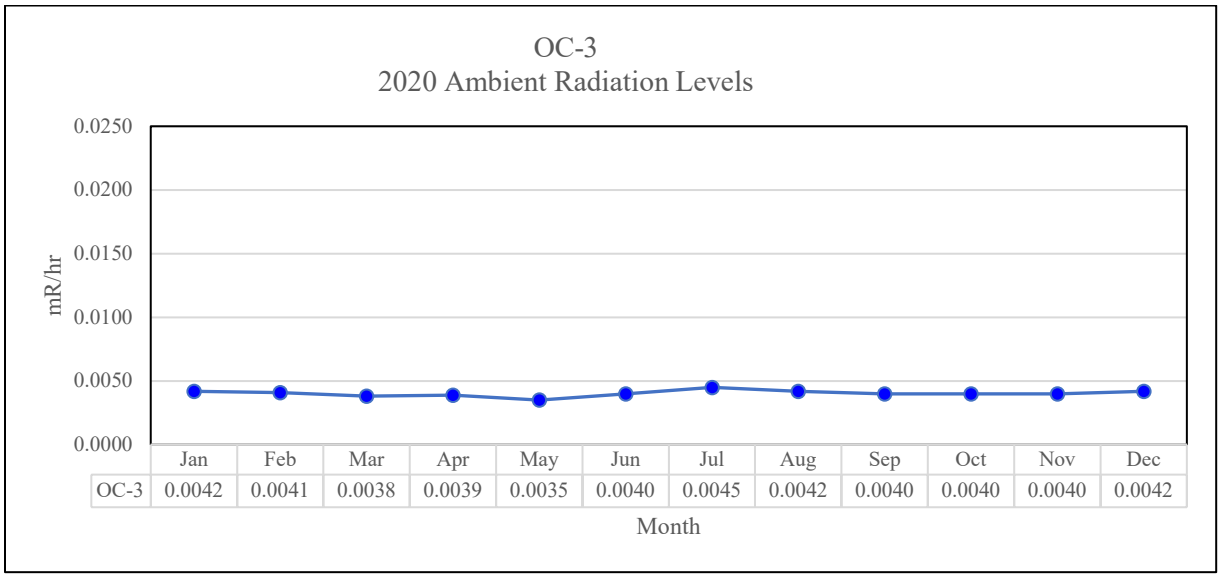
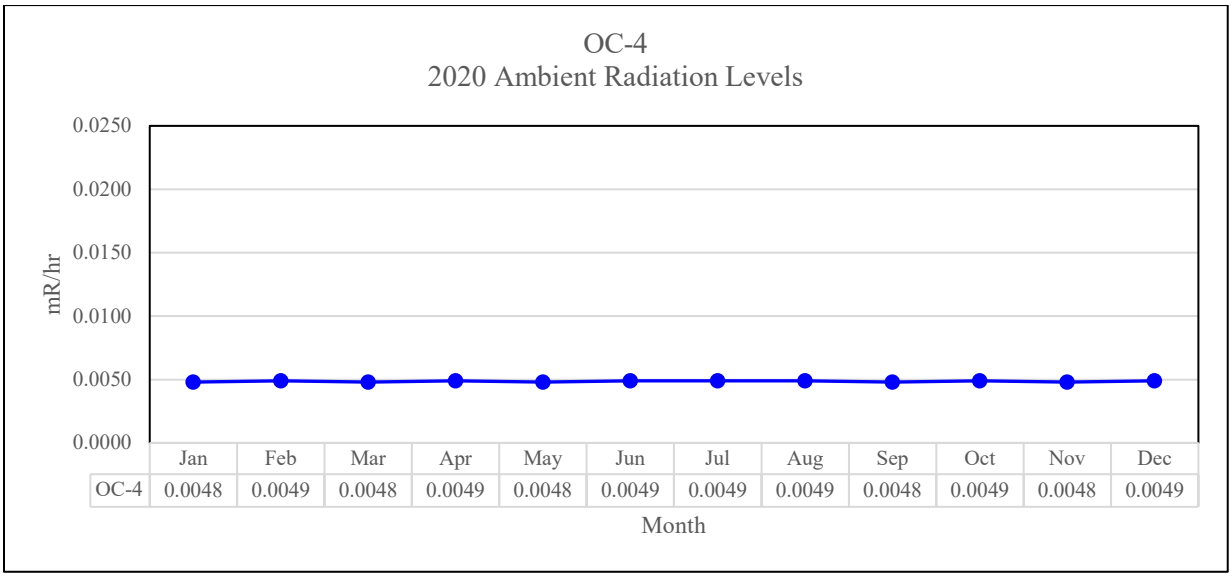
**Oyster Creek**
**Continuous Radiological Environmental Surveillance Telemetry (CREST) Data**




| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OC-3 | 0.0042 | 0.0041 | 0.0038 | 0.0039 | 0.0035 | 0.0040 | 0.0045 | 0.0042 | 0.0040 | 0.0040 | 0.0040 | 0.0042 |




| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OC-4 | 0.0048 | 0.0049 | 0.0048 | 0.0049 | 0.0048 | 0.0049 | 0.0049 | 0.0049 | 0.0048 | 0.0049 | 0.0048 | 0.0049 |

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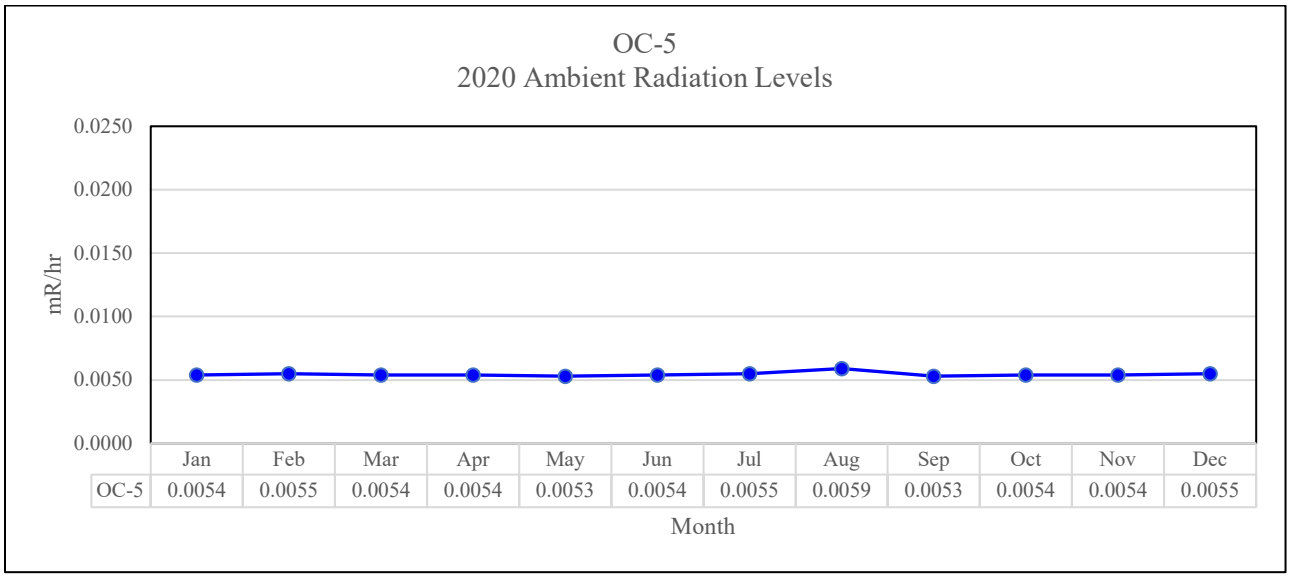
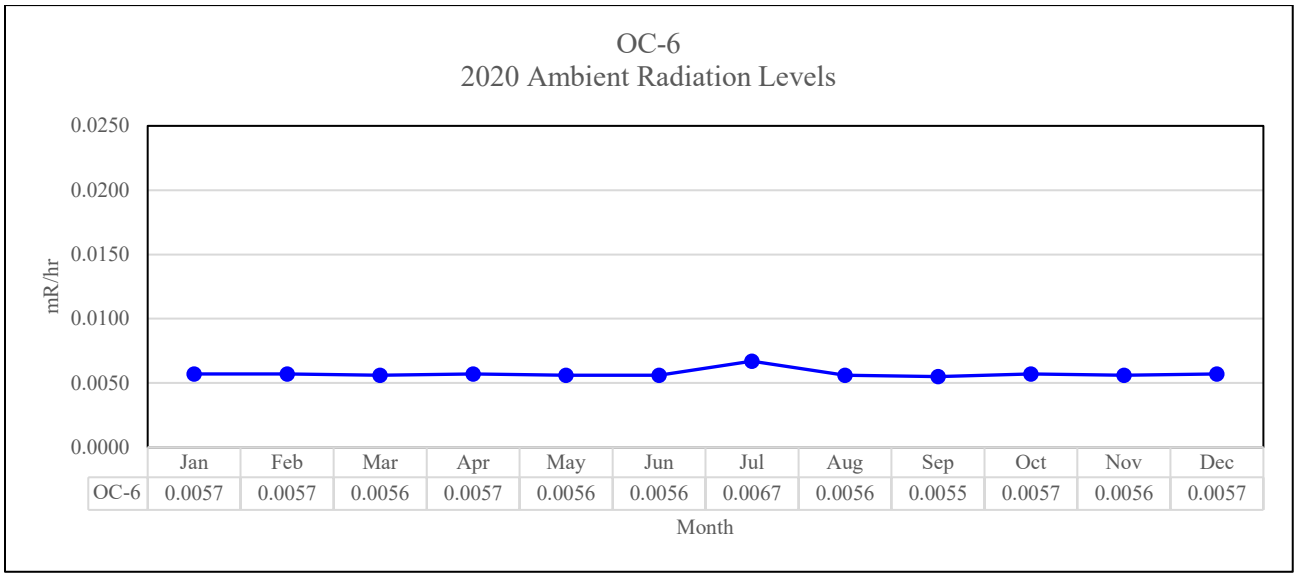
**Oyster Creek**
**Continuous Radiological Environmental Surveillance Telemetry (CREST) Data**




| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OC-5 | 0.0054 | 0.0055 | 0.0054 | 0.0054 | 0.0053 | 0.0054 | 0.0055 | 0.0059 | 0.0053 | 0.0054 | 0.0054 | 0.0055 |




| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OC-6 | 0.0057 | 0.0057 | 0.0056 | 0.0057 | 0.0056 | 0.0056 | 0.0067 | 0.0056 | 0.0055 | 0.0057 | 0.0056 | 0.0057 |

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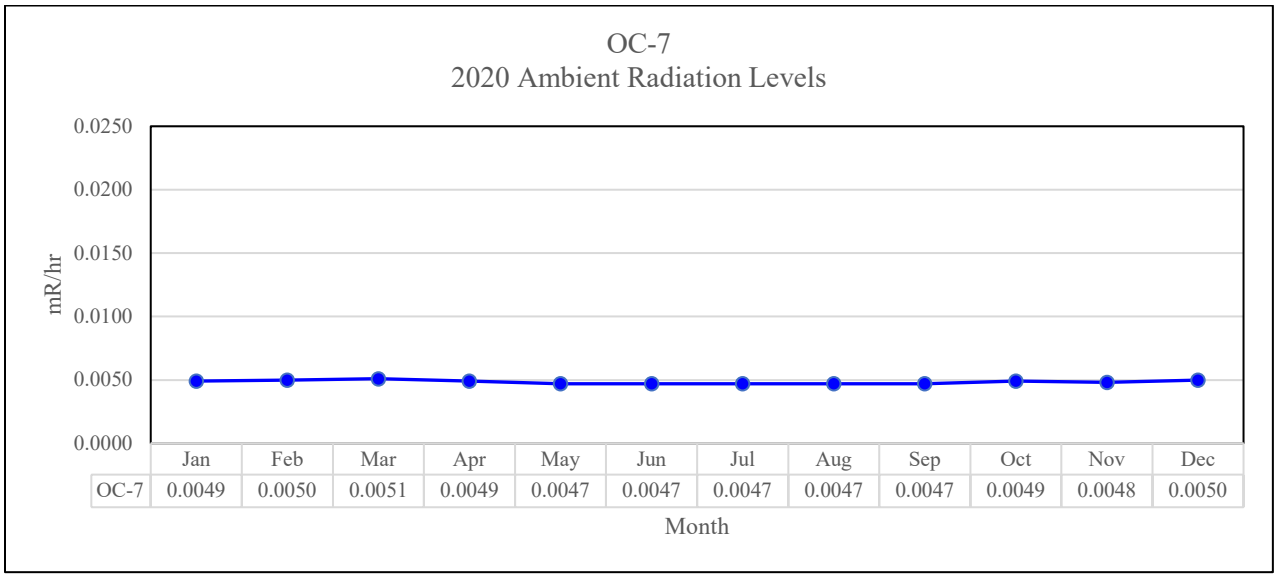
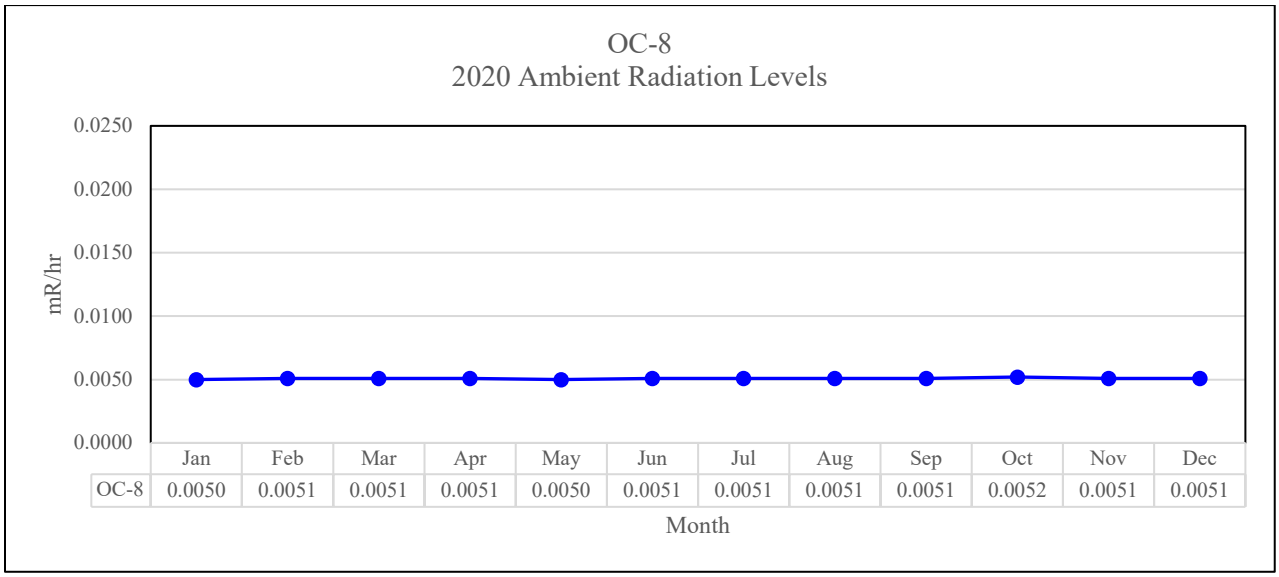
**Oyster Creek**
**Continuous Radiological Environmental Surveillance Telemetry (CREST) Data**




| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OC-7 | 0.0049 | 0.0050 | 0.0051 | 0.0049 | 0.0047 | 0.0047 | 0.0047 | 0.0047 | 0.0047 | 0.0049 | 0.0048 | 0.0050 |




| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OC-8 | 0.0050 | 0.0051 | 0.0051 | 0.0051 | 0.0050 | 0.0051 | 0.0051 | 0.0051 | 0.0051 | 0.0052 | 0.0051 | 0.0051 |

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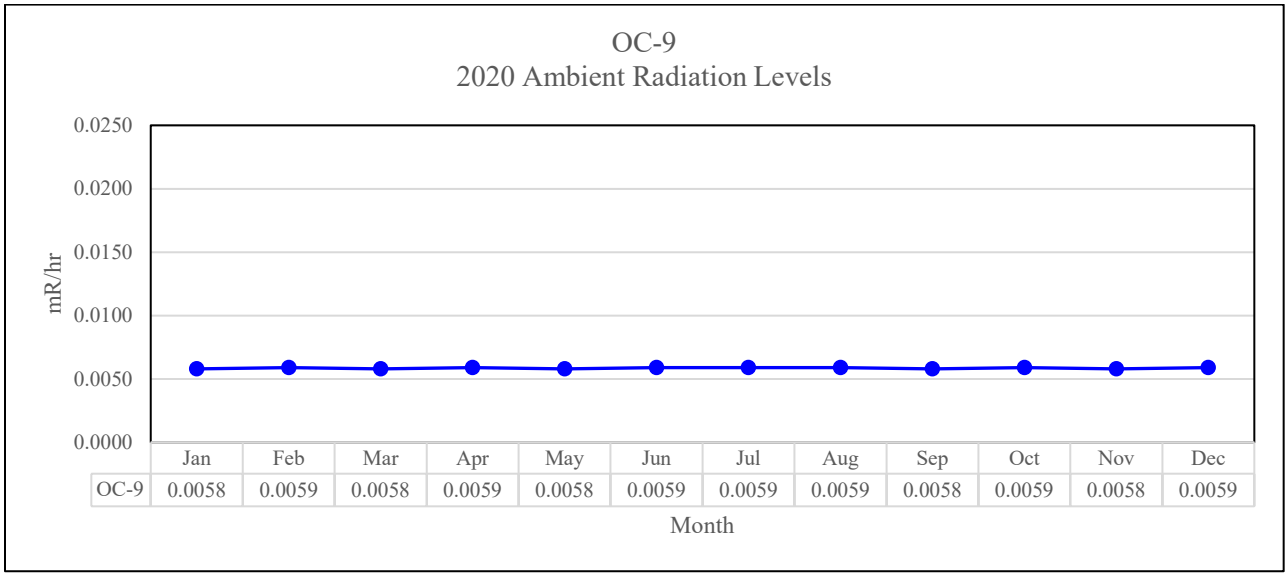
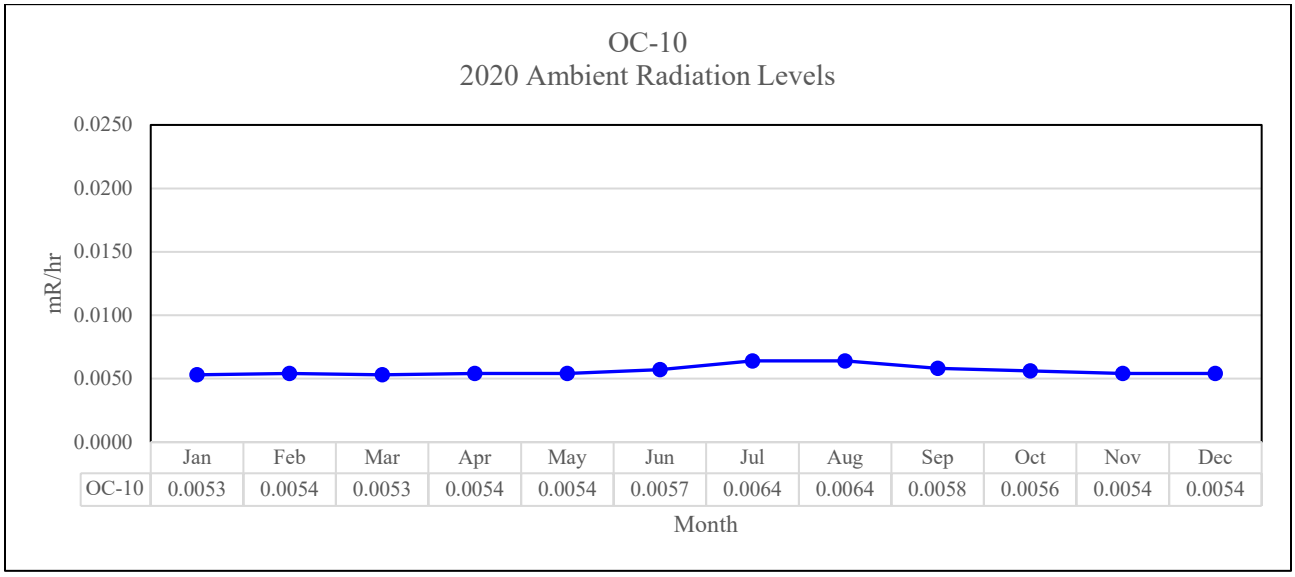
**Oyster Creek**
**Continuous Radiological Environmental Surveillance Telemetry (CREST) Data**




| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OC-9 | 0.0058 | 0.0059 | 0.0058 | 0.0059 | 0.0058 | 0.0059 | 0.0059 | 0.0059 | 0.0058 | 0.0059 | 0.0058 | 0.0059 |




| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OC-10 | 0.0053 | 0.0054 | 0.0053 | 0.0054 | 0.0054 | 0.0057 | 0.0064 | 0.0064 | 0.0058 | 0.0056 | 0.0054 | 0.0054 |

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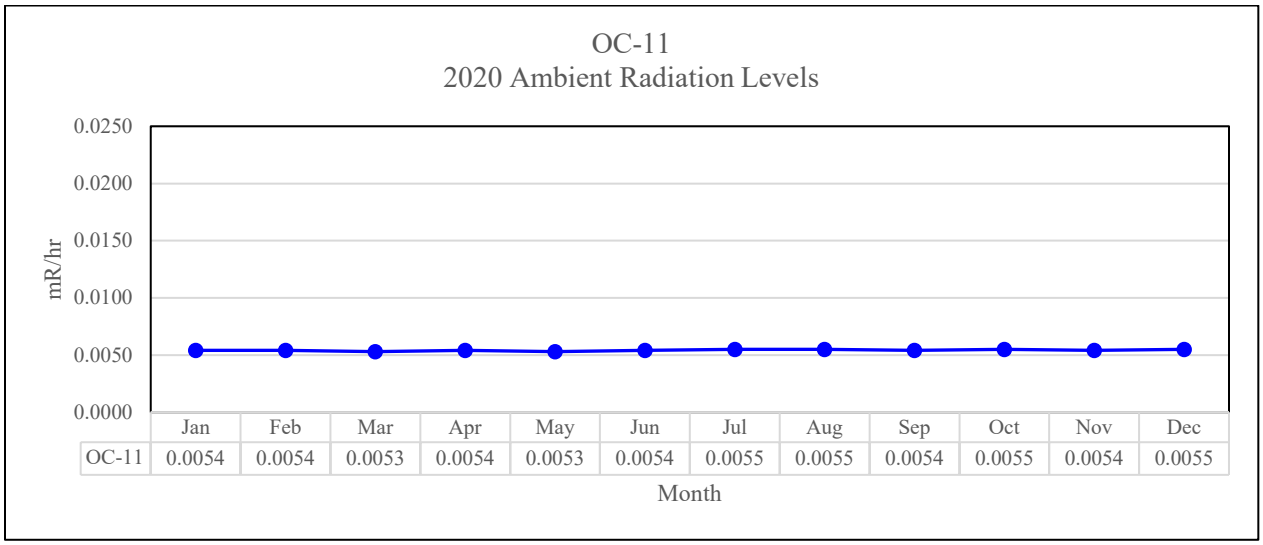
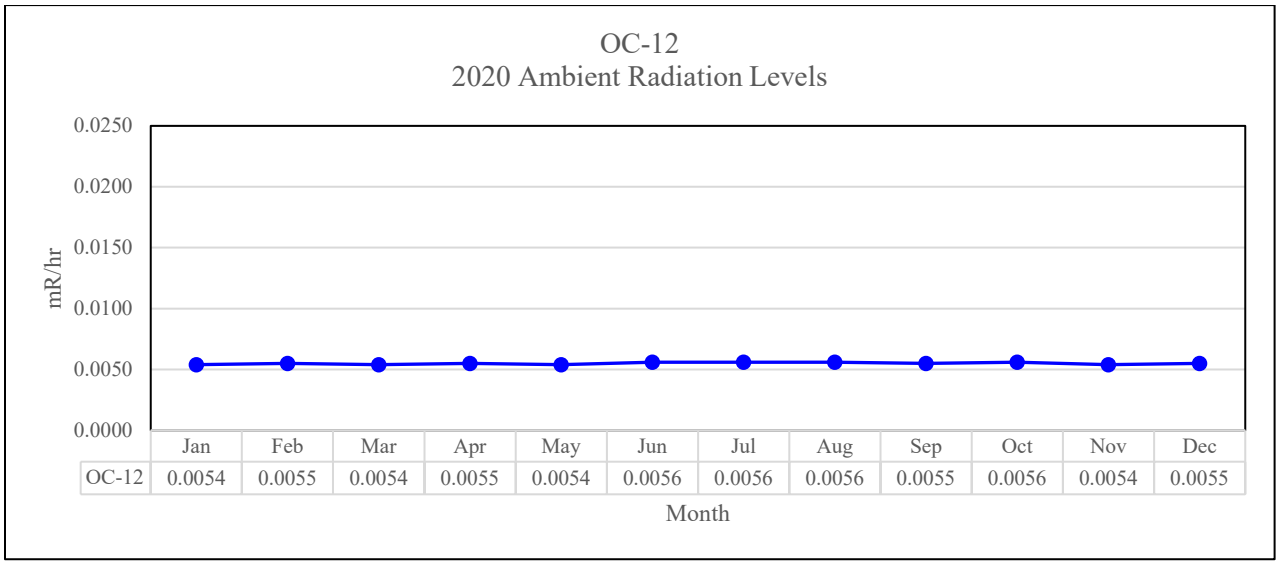
**Oyster Creek**
**Continuous Radiological Environmental Surveillance Telemetry (CREST) Data**




| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OC-11 | 0.0054 | 0.0054 | 0.0053 | 0.0054 | 0.0053 | 0.0054 | 0.0055 | 0.0055 | 0.0054 | 0.0055 | 0.0054 | 0.0055 |




| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OC-12 | 0.0054 | 0.0055 | 0.0054 | 0.0055 | 0.0054 | 0.0056 | 0.0056 | 0.0056 | 0.0055 | 0.0056 | 0.0054 | 0.0055 |

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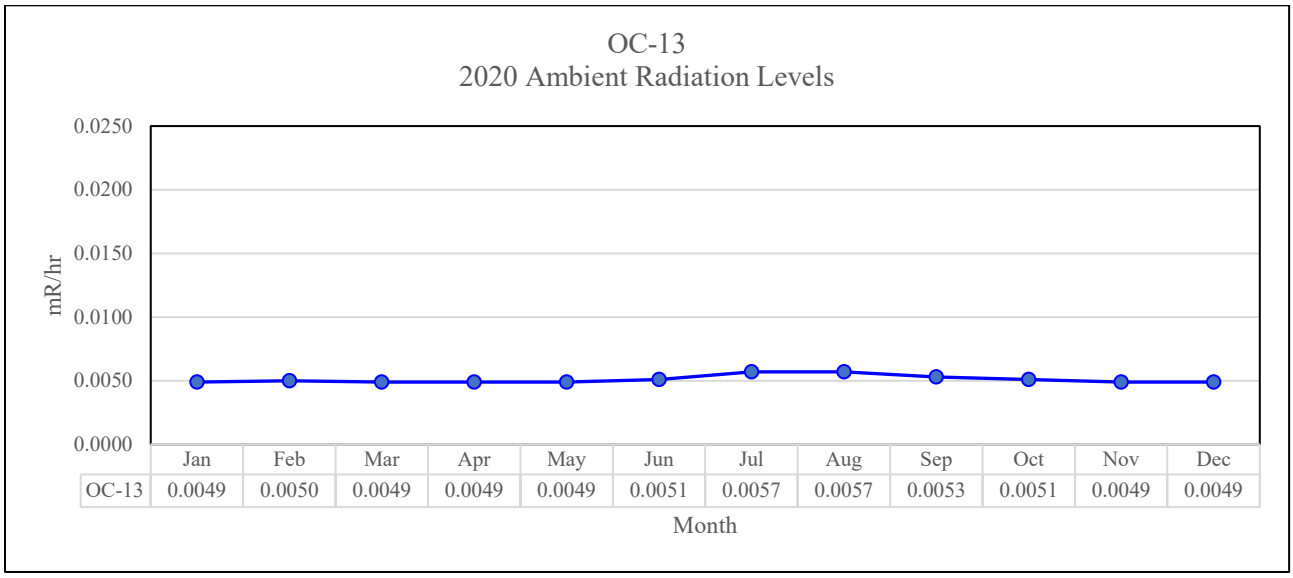
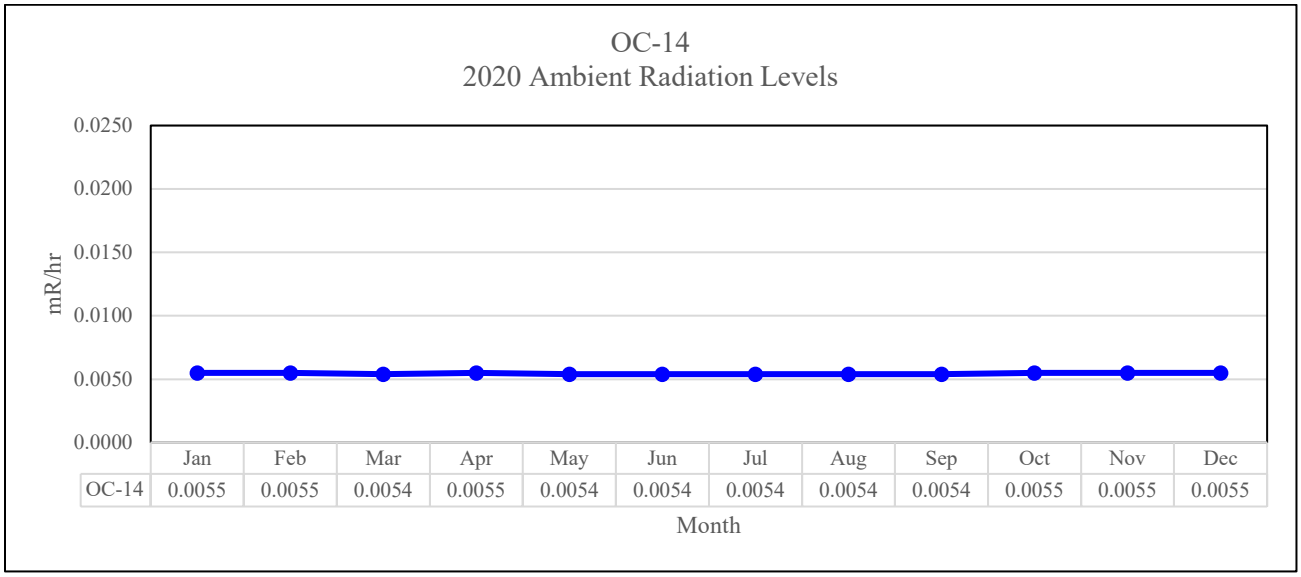
**Oyster Creek**
**Continuous Radiological Environmental Surveillance Telemetry (CREST) Data**




| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OC-13 | 0.0049 | 0.0050 | 0.0049 | 0.0049 | 0.0049 | 0.0051 | 0.0057 | 0.0057 | 0.0053 | 0.0051 | 0.0049 | 0.0049 |




| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OC-14 | 0.0055 | 0.0055 | 0.0054 | 0.0055 | 0.0054 | 0.0054 | 0.0054 | 0.0054 | 0.0054 | 0.0055 | 0.0055 | 0.0055 |

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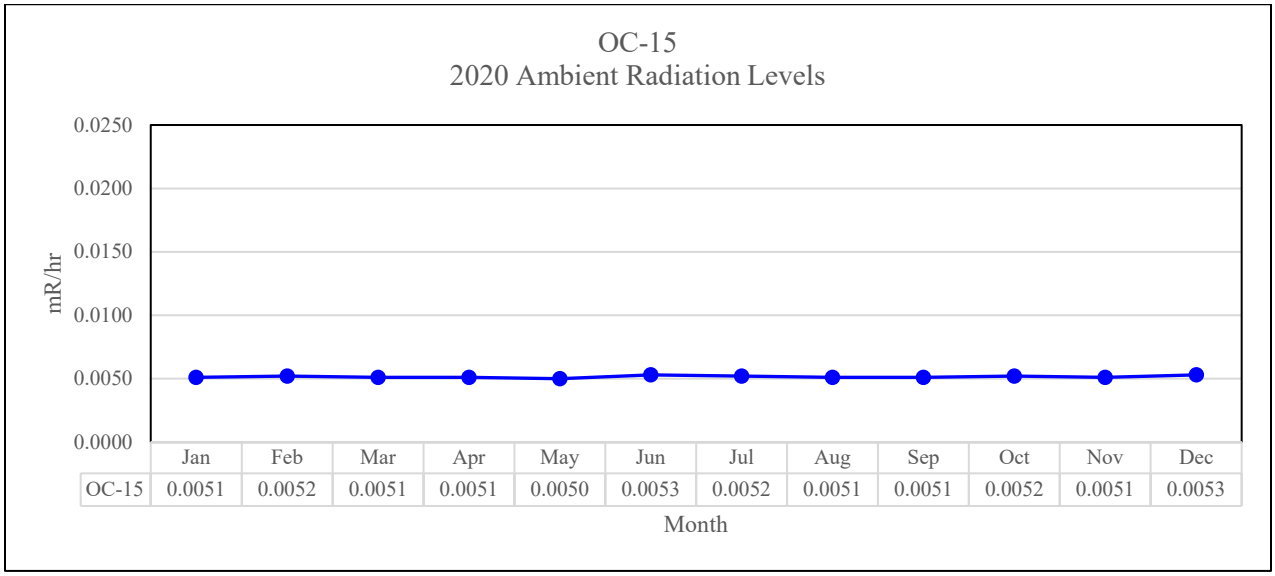
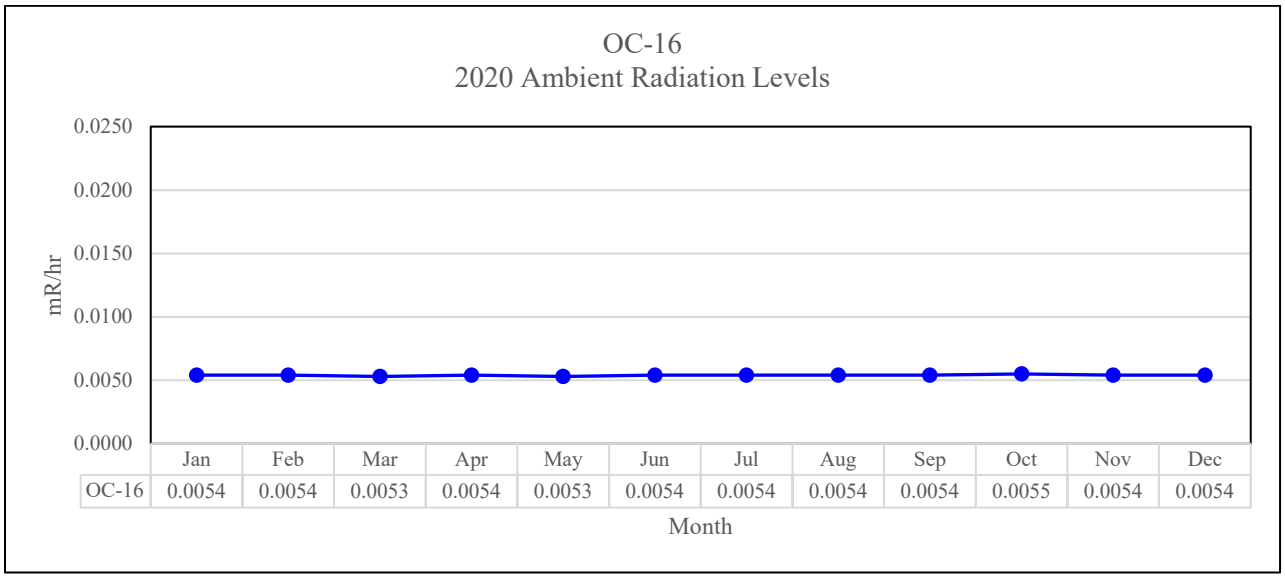
**Oyster Creek**
**Continuous Radiological Environmental Surveillance Telemetry (CREST) Data**




| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OC-15 | 0.0051 | 0.0052 | 0.0051 | 0.0051 | 0.0050 | 0.0053 | 0.0052 | 0.0051 | 0.0051 | 0.0052 | 0.0051 | 0.0053 |




| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OC-16 | 0.0054 | 0.0054 | 0.0053 | 0.0054 | 0.0053 | 0.0054 | 0.0054 | 0.0054 | 0.0054 | 0.0055 | 0.0054 | 0.0054 |

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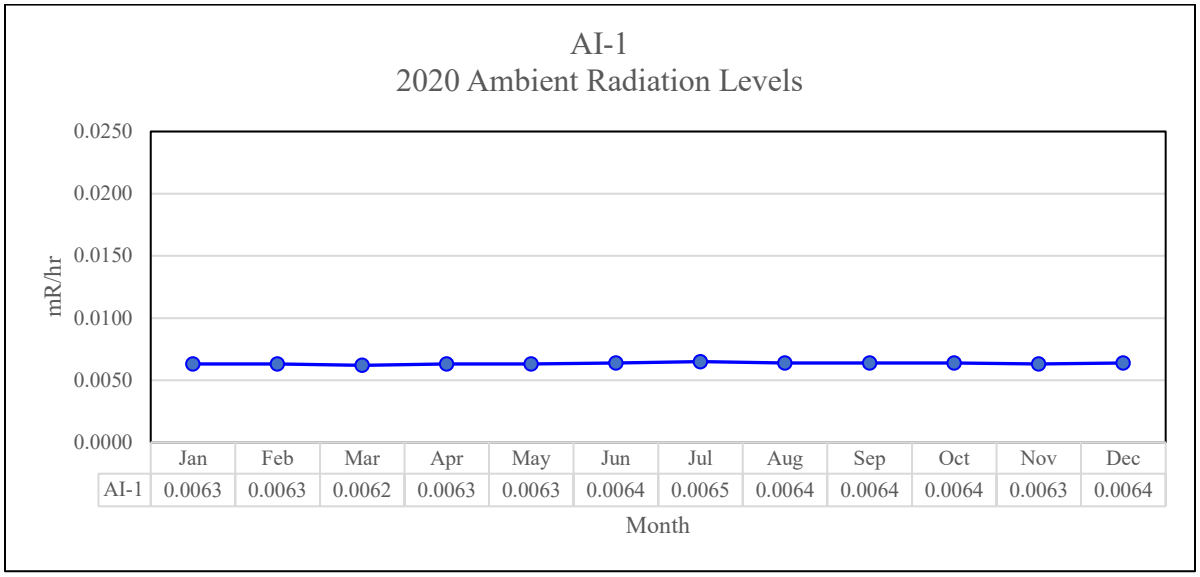
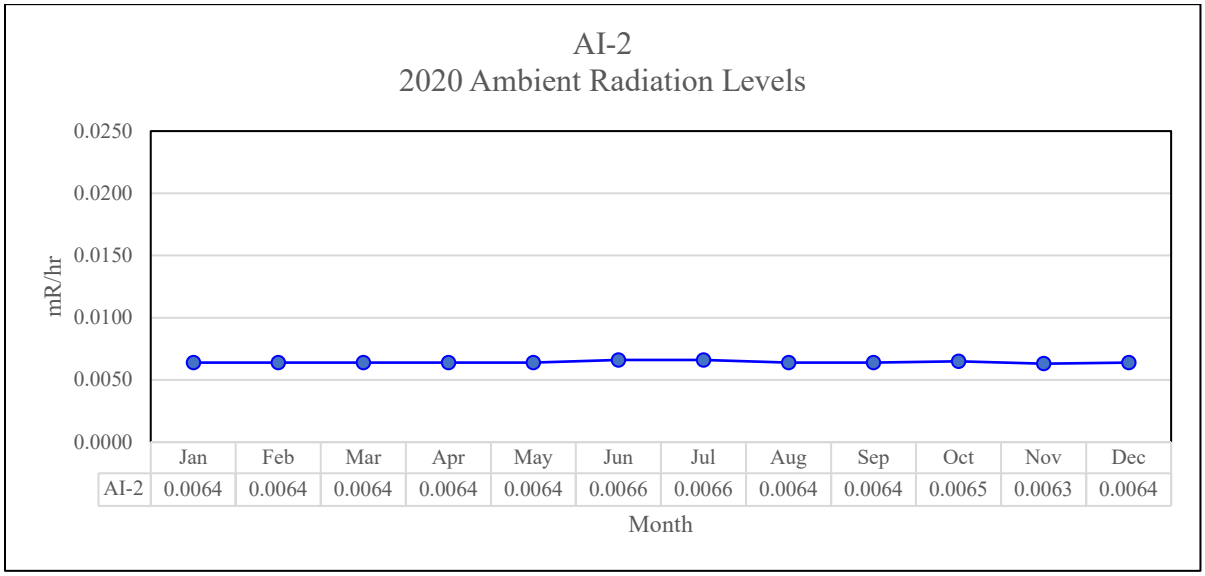
**Salem/Hope Creek**
**Continuous Radiological Environmental Surveillance Telemetry (CREST) Data**




| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AI-1 | 0.0063 | 0.0063 | 0.0062 | 0.0063 | 0.0063 | 0.0064 | 0.0065 | 0.0064 | 0.0064 | 0.0064 | 0.0063 | 0.0064 |




| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AI-2 | 0.0064 | 0.0064 | 0.0064 | 0.0064 | 0.0064 | 0.0066 | 0.0066 | 0.0064 | 0.0064 | 0.0065 | 0.0063 | 0.0064 |

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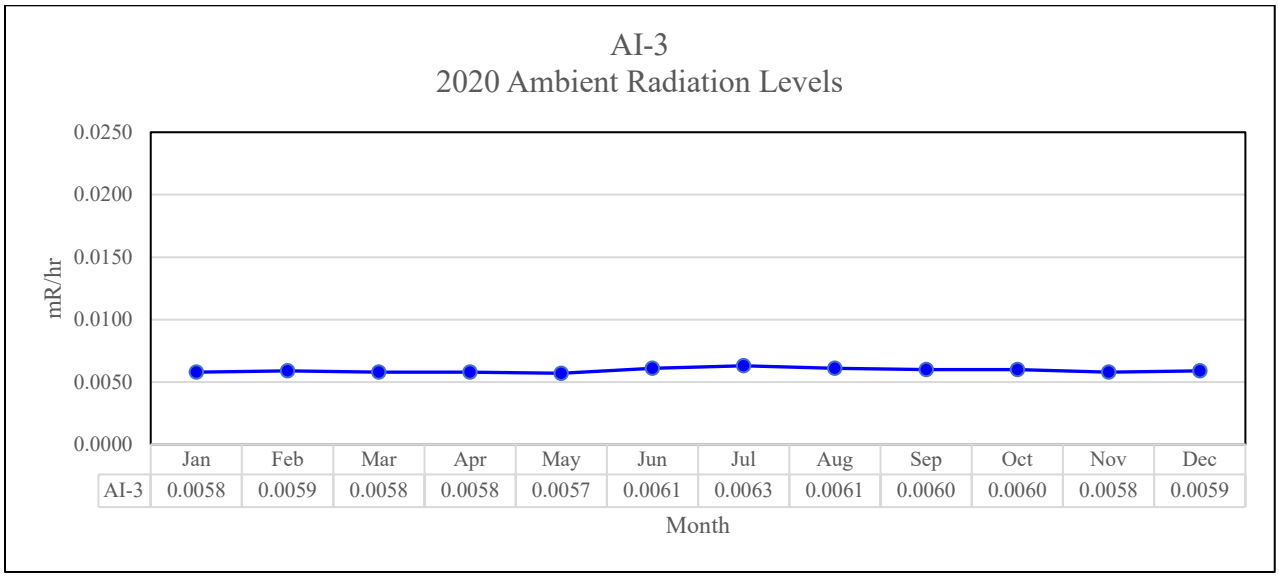
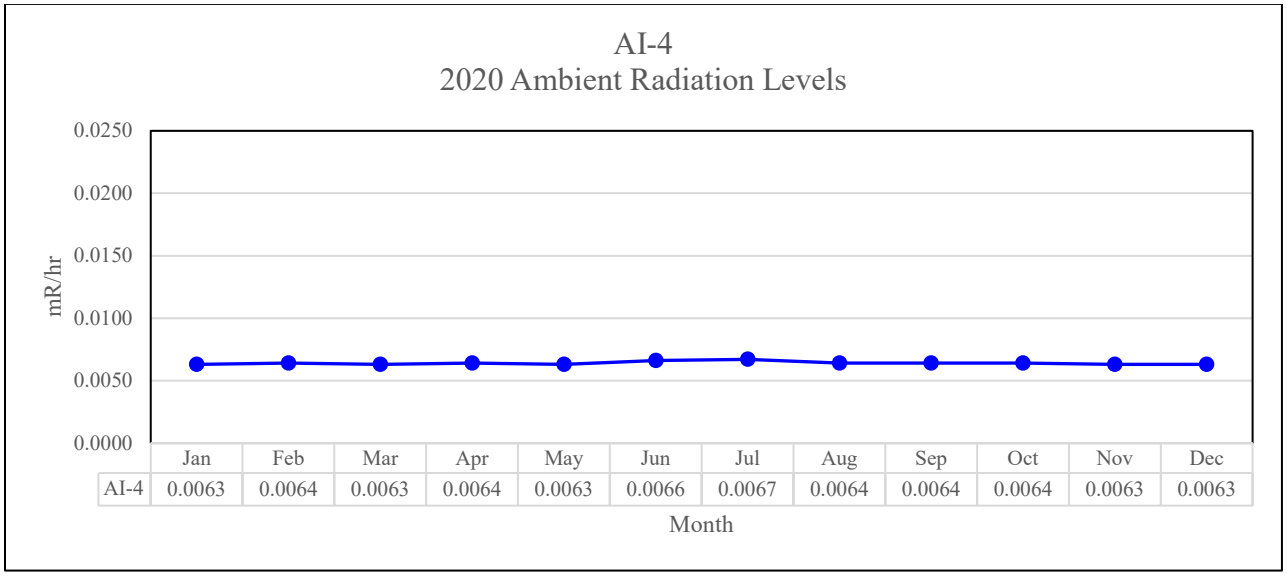
**Salem/Hope Creek**
**Continuous Radiological Environmental Surveillance Telemetry (CREST) Data**




| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AI-3 | 0.0058 | 0.0059 | 0.0058 | 0.0058 | 0.0057 | 0.0061 | 0.0063 | 0.0061 | 0.0060 | 0.0060 | 0.0058 | 0.0059 |




| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AI-4 | 0.0063 | 0.0064 | 0.0063 | 0.0064 | 0.0063 | 0.0066 | 0.0067 | 0.0064 | 0.0064 | 0.0064 | 0.0063 | 0.0063 |

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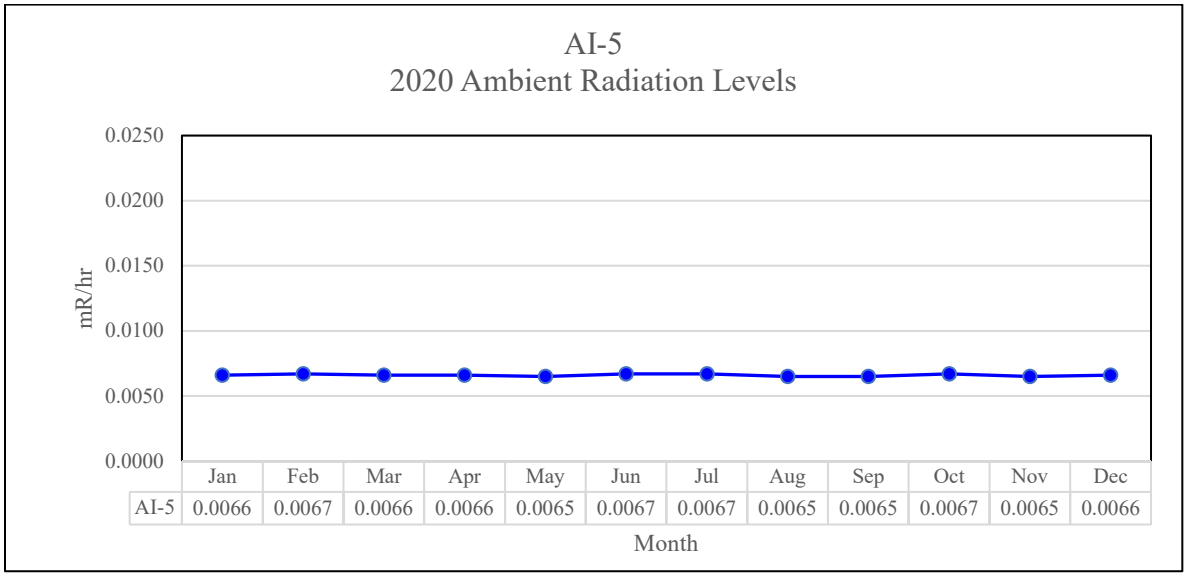
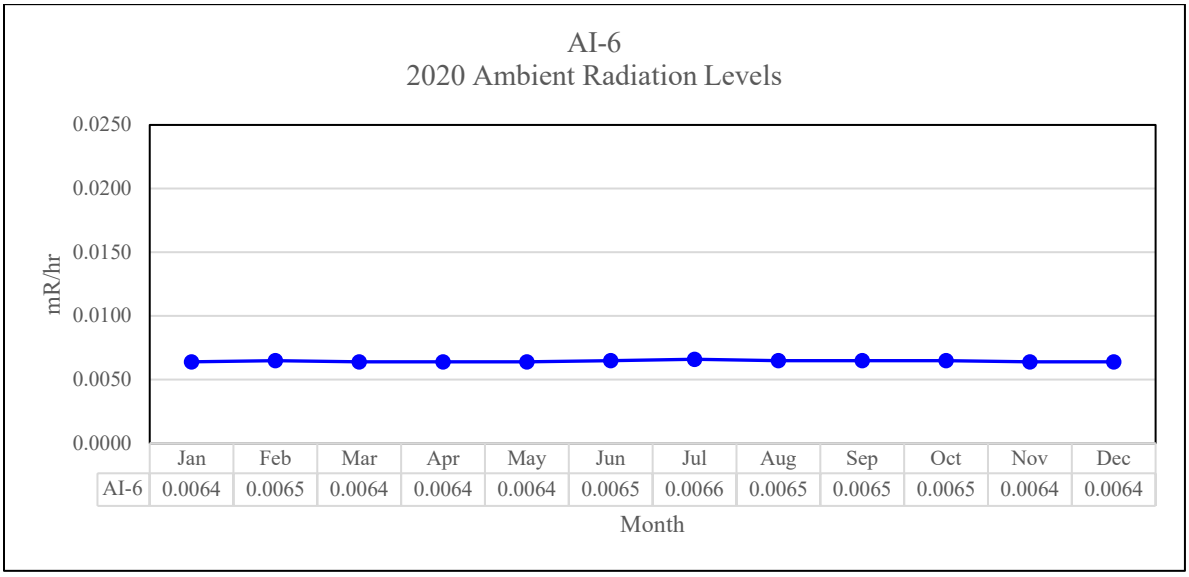
**Salem/Hope Creek**
**Continuous Radiological Environmental Surveillance Telemetry (CREST) Data**




| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AI-5 | 0.0066 | 0.0067 | 0.0066 | 0.0066 | 0.0065 | 0.0067 | 0.0067 | 0.0065 | 0.0065 | 0.0067 | 0.0065 | 0.0066 |




| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AI-6 | 0.0064 | 0.0065 | 0.0064 | 0.0064 | 0.0064 | 0.0065 | 0.0066 | 0.0065 | 0.0065 | 0.0065 | 0.0064 | 0.0064 |

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**Salem/Hope Creek**
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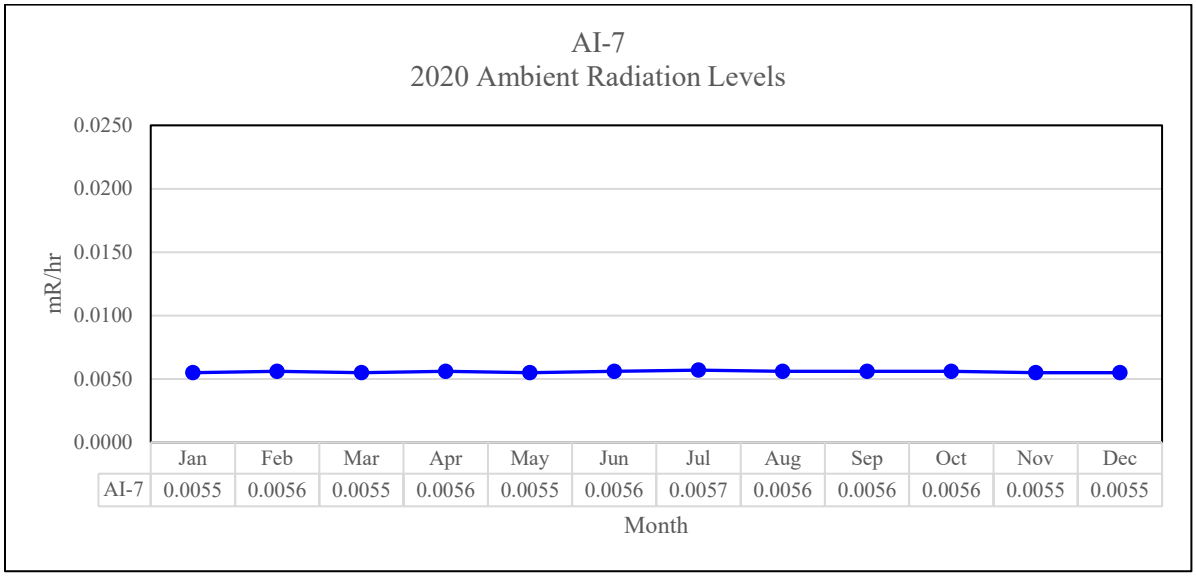
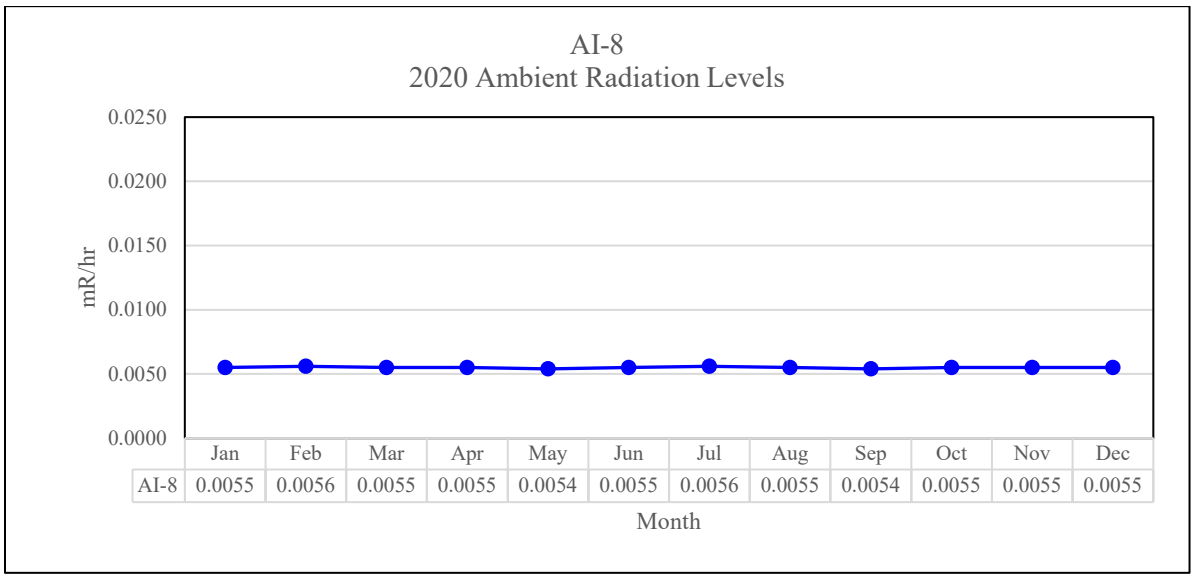


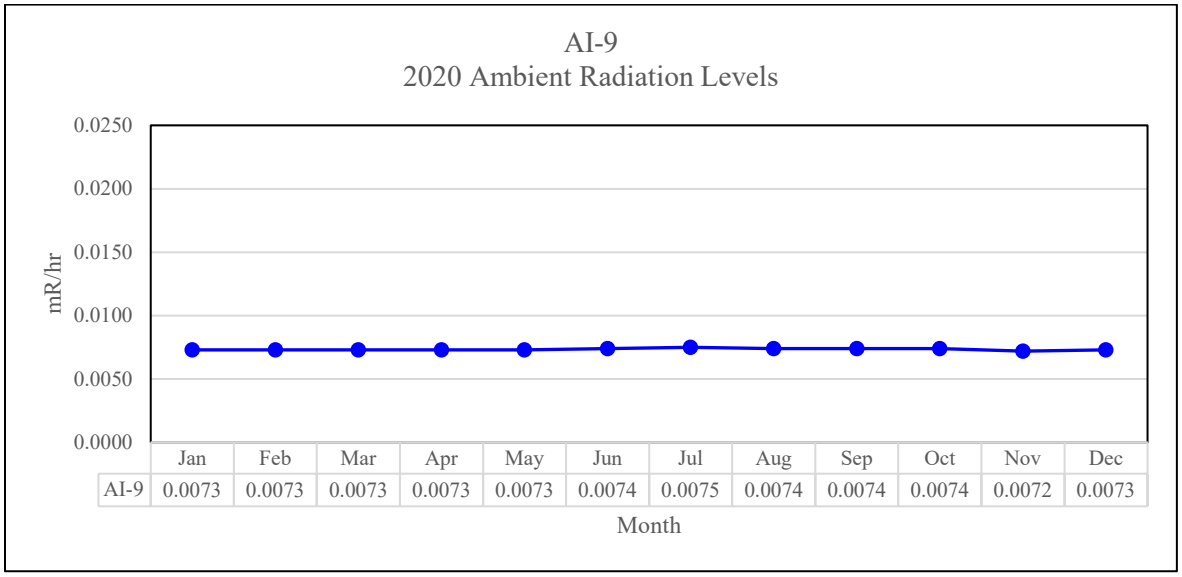

| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AI-7 | 0.0055 | 0.0056 | 0.0055 | 0.0056 | 0.0055 | 0.0056 | 0.0057 | 0.0056 | 0.0056 | 0.0056 | 0.0055 | 0.0055 |



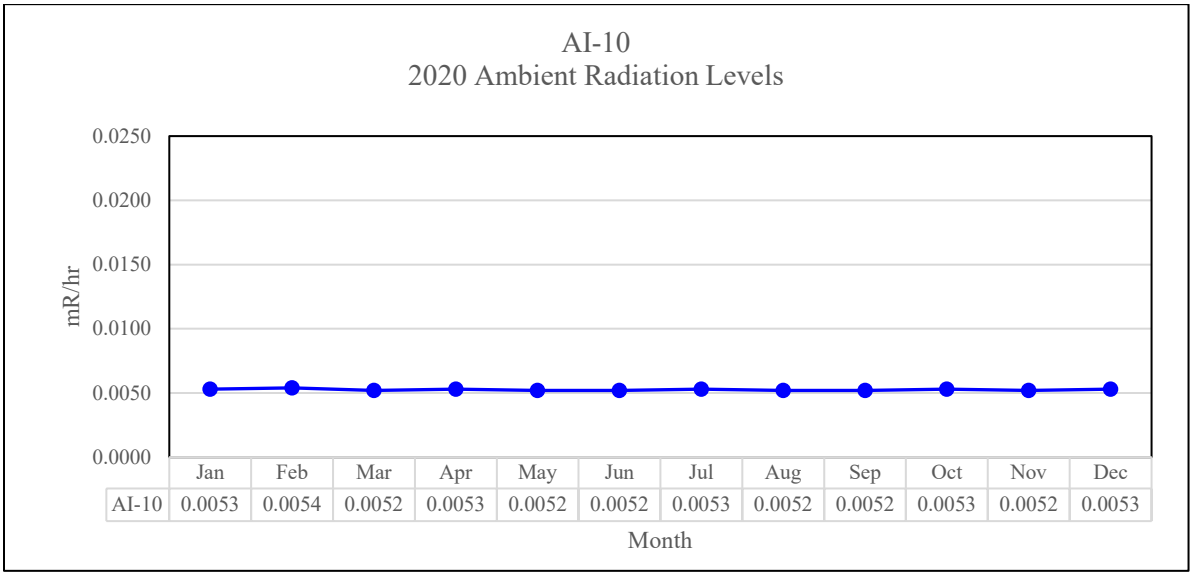

| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AI-8 | 0.0055 | 0.0056 | 0.0055 | 0.0055 | 0.0054 | 0.0055 | 0.0056 | 0.0055 | 0.0054 | 0.0055 | 0.0055 | 0.0055 |

**New Jersey Department of Environmental Protection**
**Bureau of Nuclear Engineering**
**2020 Radiological Environmental Monitoring Program**

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




| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AI-9 | 0.0073 | 0.0073 | 0.0073 | 0.0073 | 0.0073 | 0.0074 | 0.0075 | 0.0074 | 0.0074 | 0.0074 | 0.0072 | 0.0073 |




| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AI-10 | 0.0053 | 0.0054 | 0.0052 | 0.0053 | 0.0052 | 0.0052 | 0.0053 | 0.0052 | 0.0052 | 0.0053 | 0.0052 | 0.0053 |