Sampling Locations
### Sampling Locations for Surry & North Anna Nuclear Power Stations

#### Air

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<tr>
<th>Code</th>
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#### Water

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## Sample Analysis Results for Surry & North Anna Power Stations

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Sample Analysis Results for Surry & North Anna Power Stations

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Dosimetry Locations for Surry & North Anna Power Stations

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### Other Sample Types for Surry & North Anna Power Stations

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# Sampling Locations - Babcock & Wilcox

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### Other Sampling Locations

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<td>Surface Water</td>
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<td>66</td>
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</tbody>
</table>
NO DETECTABLE RESULTS "NDR"

In order for a nuclide to be identified in the spectrum and entered into this report, constraints set by the HPGe analysis software need to be satisfied and the results of the confidence index calculation must greater than the threshold (usually 0.3).

For the maximum confidence index, the following conditions need to be met.

- The nuclide energy peak needs to be within the energy tolerance of the library lines for that nuclide.
- A nuclide with multiple lines, must match the library peaks in the spectrum.
- The number of half-lives that has elapsed, between when the sample was taken and when it was counted, must be less than 10 half-lives or the confidence in the identification is small.

If the confidence index threshold and/or any of the three criteria are not met, then the nuclide is deemed no detectable results, (NDR).

MINIMUM DETECTABLE ACTIVITY "MDA"

MDA as used in this report is defined as the lowest level of radioactivity that can be consistently and accurately detected in a given sample that is identified in the spectrum.
Analytical Results
### Air

<table>
<thead>
<tr>
<th>Site</th>
<th>Gamma &amp; Radiogas in Air</th>
<th>Air Particulate</th>
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<tr>
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<td>I-131 Activity pCi/meter³</td>
<td>Cs-134 Activity pCi/meter³</td>
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### Water

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<td>NAPS-W-3</td>
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1. Due to the MICL being serviced and the holiday, sample was not collected.
Virginia Department of Health
Week 2: 01/08/18 – 01/15/18

Air

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<td>pCi/meter^3</td>
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Water

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<tr>
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Due to the MICL being serviced, sample was not collected.
Virginia Department of Health
Week 3: 01/15/18 – 01/22/18

**Air**

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**Water**

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<tr>
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³ Due to the MICL being serviced, sample was not collected.
Virginia Department of Health
Week 4: 01/22/18 – 01/29/18

## Air

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<td>NDR</td>
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## Water

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<tr>
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<sup>4</sup> Due to the MICL being serviced, and holiday 01/15, air sample collected 01/16 - 01/29.

<sup>5</sup> Due to 2 of 8 circulating water intake pumps not being in service, water sample had elevated tritium level and will continue to be elevated until the pumps are all back in service.
Virginia Department of Health
Week 5: 01/29/18 - 02/05/18

Air

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<td>NDR</td>
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Water

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6 Due to 2 of 8 circulating water intake pumps not being in service, water sample had elevated tritium level and will continue to be elevated until the pumps are all back in service.
Virginia Department of Health
Week 6: 02/05/18 – 02/12/18

Air

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Water

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<th>H3 Activity</th>
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<tr>
<td></td>
<td>Mn  54 Co  58 Fe  59 Co  60 Zn  65 Zr  95 I  131 Cs  134 Cs  137 Ba  140</td>
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<td></td>
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<td>751 +/- 123</td>
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<td>7508 +/- 425</td>
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Due to 2 of 8 circulating water intake pumps not being in service, water sample had elevated tritium level and will continue to be elevated until the pumps are all back in service.
Virginia Department of Health  
Week 7: 02/12/18 – 02/19/18

### Air

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### Water

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<th>Mn 54</th>
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<th>Ba 140</th>
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<td>&lt;5.0</td>
<td>&lt;11</td>
<td>&lt;9.0</td>
<td>&lt;10</td>
<td>&lt;5.0</td>
<td>&lt;5.0</td>
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<td>&lt;3.0</td>
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<td>13.3 +/- 1.1</td>
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<td>&lt;3.0</td>
<td>&lt;3.0</td>
<td>&lt;7.0</td>
<td>&lt;3.0</td>
<td>&lt;7.0</td>
<td>&lt;6.0</td>
<td>&lt;9.0</td>
<td>&lt;3.0</td>
<td>&lt;3.0</td>
<td>&lt;21</td>
<td>9.3 +/- 1.2</td>
<td></td>
</tr>
</tbody>
</table>

---

8 Due to holiday, 02/19, sample was collected 02/20.
9 Due to 2 of 8 circulating water intake pumps not being in service, water sample had elevated tritium level and will continue to be elevated until the pumps are all back in service.
## Air

<table>
<thead>
<tr>
<th>Site</th>
<th>Gamma &amp; Radiogas in Air</th>
<th>Air Particulate</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>I-131 Activity pCi/meter^3</td>
<td>Cs-134 Activity pCi/meter^3</td>
</tr>
<tr>
<td>SPS-A-1</td>
<td>NDR</td>
<td>NDR</td>
</tr>
<tr>
<td>SPS-A-2</td>
<td>NDR</td>
<td>NDR</td>
</tr>
<tr>
<td>PSP-A-1</td>
<td>NDR</td>
<td>NDR</td>
</tr>
<tr>
<td>NAPS-A-1</td>
<td>NDR</td>
<td>NDR</td>
</tr>
<tr>
<td>NAPS-A-2</td>
<td>NDR</td>
<td>NDR</td>
</tr>
</tbody>
</table>

## Water

<table>
<thead>
<tr>
<th>Site</th>
<th>Gamma and Tritium Activity – pCi/Liter</th>
<th>Gross Beta</th>
<th>H3 Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Mn 54  Co 58  Fe 59  Co 60  Zn 65  Zr 95  I 131  Cs 134  Cs 137  Ba 140</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SPS-W-1</td>
<td>NDR  NDR  NDR  NDR  NDR  NDR  NDR  NDR  NDR  NDR</td>
<td></td>
<td>901 +/- 141</td>
</tr>
<tr>
<td>SPS-W-2</td>
<td>NDR  NDR  NDR  NDR  NDR  NDR  NDR  NDR  NDR  NDR</td>
<td></td>
<td>150 +/- 71</td>
</tr>
<tr>
<td>SPS-W-3</td>
<td>NDR  NDR  NDR  NDR  NDR  NDR  NDR  NDR  NDR  NDR</td>
<td></td>
<td>3 +/- 300</td>
</tr>
<tr>
<td>NAPS-W-1</td>
<td>NDR  NDR  NDR  NDR  NDR  NDR  NDR  NDR  NDR  NDR</td>
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<td>9835 +/- 484</td>
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<tr>
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<td></td>
<td>526 +/- 300</td>
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<td>NAPS-W-3</td>
<td>NDR  NDR  NDR  NDR  NDR  NDR  NDR  NDR  NDR  NDR</td>
<td></td>
<td>526 +/- 100</td>
</tr>
</tbody>
</table>

---

10 Due to training, 02/26, sample was collected 02/27.
11 Due to Dominion Power Station release of the Boron Recovery Tank, Tritium level was elevated.
### Air

<table>
<thead>
<tr>
<th>Site</th>
<th>Gamma &amp; Radiogas in Air</th>
<th>Air Particulate</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>I-131 Activity pCi/meter</td>
<td>Cs-134 Activity pCi/meter</td>
</tr>
<tr>
<td>SPS-A-1</td>
<td>NDR</td>
<td>NDR</td>
</tr>
<tr>
<td>SPS-A-2</td>
<td>NDR</td>
<td>NDR</td>
</tr>
<tr>
<td>PSP-A-1</td>
<td>NDR</td>
<td>NDR</td>
</tr>
<tr>
<td>NAPS-A-1</td>
<td>NDR</td>
<td>NDR</td>
</tr>
<tr>
<td>NAPS-A-2</td>
<td>NDR</td>
<td>NDR</td>
</tr>
</tbody>
</table>

### Water

<table>
<thead>
<tr>
<th>Site</th>
<th>Gamma and Tritium Activity – pCi/Liter</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Mn 54</td>
</tr>
<tr>
<td>SPS-W-1</td>
<td>NDR</td>
</tr>
<tr>
<td>SPS-W-2</td>
<td>NDR</td>
</tr>
<tr>
<td>SPS-W-3</td>
<td>NDR</td>
</tr>
<tr>
<td>NAPS-W-1</td>
<td>NDR</td>
</tr>
<tr>
<td>NAPS-W-2</td>
<td>NDR</td>
</tr>
<tr>
<td>NAPS-W-3</td>
<td>NDR</td>
</tr>
</tbody>
</table>

---

12 Due to training on 03/05, sample was collected 03/06.
13 Due to air sampler being unplugged, sample was not collected.
14 Due to Dominion Power Station release of the Boron Recovery Tank, Tritium level was elevated.
Virginia Department of Health  
Week 10: 03/05/18 – 03/12/18

## Air

<table>
<thead>
<tr>
<th>Site</th>
<th>Gamma &amp; Radiogas in Air</th>
<th>Air Particulate</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>I-131 Activity pCi/meter</td>
<td>Cs-134 Activity pCi/meter</td>
</tr>
<tr>
<td>SPS-A-1</td>
<td>NDR</td>
<td>NDR</td>
</tr>
<tr>
<td>SPS-A-2</td>
<td>NDR</td>
<td>NDR</td>
</tr>
<tr>
<td>PSP-A-1</td>
<td>NDR</td>
<td>NDR</td>
</tr>
<tr>
<td>NAPS-A-1</td>
<td>NDR</td>
<td>NDR</td>
</tr>
<tr>
<td>NAPS-A-2</td>
<td>NDR</td>
<td>NDR</td>
</tr>
</tbody>
</table>

## Water

<table>
<thead>
<tr>
<th>Site</th>
<th>Gamma and Tritium Activity – pCi/Liter</th>
<th>Gross Beta</th>
<th>H3 Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Mn 54</td>
<td>Co 58</td>
<td>Fe 59</td>
</tr>
<tr>
<td>SPS-W-1</td>
<td>NDR</td>
<td>NDR</td>
<td>NDR</td>
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<tr>
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<td>NDR</td>
</tr>
<tr>
<td>SPS-W-3</td>
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<td>NDR</td>
<td>NDR</td>
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<td>NDR</td>
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<tr>
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<tr>
<td>NAPS-W-3</td>
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<td>NDR</td>
<td>NDR</td>
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</table>

15 Due to Dominion Power Station release of the Boron Recovery Tank, Tritium level was elevated.
Virginia Department of Health  
Week 11: 03/12/18 – 03/19/18

### Air

<table>
<thead>
<tr>
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<tr>
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<td>I-131 Activity pCi/meter³</td>
<td>Cs-134 Activity pCi/meter³</td>
</tr>
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<td>SPS-A-1</td>
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<td></td>
</tr>
<tr>
<td>SPS-A-2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSP-A-1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NAPS-A-1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NAPS-A-2</td>
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</tbody>
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### Water

<table>
<thead>
<tr>
<th>Site</th>
<th>Gamma and Tritium Activity – pCi/Liter</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Mn 54</td>
</tr>
<tr>
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<tr>
<td>SPS-W-2</td>
<td></td>
</tr>
<tr>
<td>SPS-W-3</td>
<td></td>
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<tr>
<td>NAPS-W-1</td>
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</tr>
<tr>
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</tr>
<tr>
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16 Due to the MICL being serviced, sample was not collected.
Virginia Department of Health
Week 12: 03/19/18 - 03/26/18

Air

<table>
<thead>
<tr>
<th>Site</th>
<th>Gamma &amp; Radiogas in Air</th>
<th>Air Particulate</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>I-131 Activity pCi/meter³</td>
<td>Cs-134 Activity pCi/meter³</td>
</tr>
<tr>
<td>SPS-A-1</td>
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<td></td>
</tr>
<tr>
<td>SPS-A-2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSP-A-1</td>
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<td></td>
</tr>
<tr>
<td>NAPS-A-1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NAPS-A-2</td>
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Water

<table>
<thead>
<tr>
<th>Site</th>
<th>Gamma and Tritium Activity – pCi/Liter</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Mn 54</td>
</tr>
<tr>
<td></td>
<td>SPS-W-1</td>
</tr>
<tr>
<td></td>
<td>SPS-W-2</td>
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<td></td>
<td>SPS-W-3</td>
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<td>NAPS-W-1</td>
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<td></td>
<td>NAPS-W-2</td>
</tr>
<tr>
<td></td>
<td>NAPS-W-3</td>
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</table>

17 Due to the MICL being serviced, sample was not collected.
Virginia Department of Health  
Week 13: 03/26/18 – 04/02/18

Air

<table>
<thead>
<tr>
<th>Site</th>
<th>Gamma &amp; Radiogas in Air</th>
<th>Air Particulate</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>I-131 Activity pCi/meter³</td>
<td>Cs-134 Activity pCi/meter³</td>
</tr>
<tr>
<td>SPS-A-1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SPS-A-2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSP-A-1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NAPS-A-1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NAPS-A-2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Water

<table>
<thead>
<tr>
<th>Site</th>
<th>Gamma and Tritium Activity – pCi/Liter</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Mn 54</td>
</tr>
<tr>
<td>SPS-W-1</td>
<td></td>
</tr>
<tr>
<td>SPS-W-2</td>
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</tr>
<tr>
<td>SPS-W-3</td>
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<tr>
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<td>NAPS-W-2</td>
<td></td>
</tr>
<tr>
<td>NAPS-W-3</td>
<td></td>
</tr>
</tbody>
</table>

18 Due to the MICL being serviced, sample was not collected.
### Air

<table>
<thead>
<tr>
<th>Site</th>
<th>Gamma &amp; Radiogas in Air</th>
<th>Air Particulate</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>I-131 Activity</td>
<td>Cs-134 Activity</td>
</tr>
<tr>
<td></td>
<td>pCi/meter²</td>
<td>pCi/meter³</td>
</tr>
<tr>
<td>SPS-A-1</td>
<td>NDR</td>
<td>NDR</td>
</tr>
<tr>
<td>SPS-A-2</td>
<td>NDR</td>
<td>NDR</td>
</tr>
<tr>
<td>PSP-A-1</td>
<td>NDR</td>
<td>NDR</td>
</tr>
<tr>
<td>NAPS-A-1</td>
<td>NDR</td>
<td>NDR</td>
</tr>
<tr>
<td>NAPS-A-2</td>
<td>NDR</td>
<td>NDR</td>
</tr>
</tbody>
</table>

### Water

<table>
<thead>
<tr>
<th>Site</th>
<th>Gamma and Tritium Activity – pCi/Liter</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Mn 54</td>
</tr>
<tr>
<td>SPS-W-1</td>
<td>NDR</td>
</tr>
<tr>
<td>SPS-W-2</td>
<td>NDR</td>
</tr>
<tr>
<td>SPS-W-3</td>
<td>NDR</td>
</tr>
<tr>
<td>NAPS-W-1</td>
<td>NDR</td>
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<tr>
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<td>NDR</td>
</tr>
<tr>
<td>NAPS-W-3</td>
<td>NDR</td>
</tr>
</tbody>
</table>

Due to Dominion Power Station refueling outage and the reduction of intake pumps, Tritium sample is level was elevated.
Virginia Department of Health
Week 15: 04/09/18 – 04/16/18

**Air**

<table>
<thead>
<tr>
<th>Site</th>
<th>Gamma &amp; Radiogas in Air</th>
<th>Air Particulate</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>I-131 Activity pCi/meter³</td>
<td>Cs-134 Activity pCi/meter³</td>
</tr>
<tr>
<td>SPS-A-1</td>
<td>NDR</td>
<td>NDR</td>
</tr>
<tr>
<td>SPS-A-2</td>
<td>NDR</td>
<td>NDR</td>
</tr>
<tr>
<td>PSP-A-1</td>
<td>NDR</td>
<td>NDR</td>
</tr>
<tr>
<td>NAPS-A-1</td>
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</tr>
<tr>
<td>NAPS-A-2</td>
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<td>NDR</td>
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</table>

**Water**

<table>
<thead>
<tr>
<th>Site</th>
<th>Gamma and Tritium Activity – pCi/Liter</th>
<th>H3 Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Mn 54</td>
<td>Co 58</td>
</tr>
<tr>
<td>SPS-W-1</td>
<td>NDR</td>
<td>NDR</td>
</tr>
<tr>
<td>SPS-W-2</td>
<td>NDR</td>
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</tr>
<tr>
<td>SPS-W-3</td>
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</tr>
<tr>
<td>NAPS-W-1</td>
<td>NDR</td>
<td>NDR</td>
</tr>
<tr>
<td>NAPS-W-2</td>
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<td>NDR</td>
</tr>
<tr>
<td>NAPS-W-3</td>
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<td>NDR</td>
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</tbody>
</table>

20 Due to Dominion Power Station refueling outage and the reduction of intake pumps, Tritium sample is level was elevated.
# Virginia Department of Health
## Week 16: 04/16/18 – 04/23/18

### Air

<table>
<thead>
<tr>
<th>Site</th>
<th>Gamma &amp; Radiogas in Air</th>
<th>Air Particulate</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>I-131 Activity pCi/meter³</td>
<td>Cs-134 Activity pCi/meter³</td>
</tr>
<tr>
<td>SPS-A-1</td>
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<td>NDR</td>
</tr>
<tr>
<td>SPS-A-2</td>
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<td>NDR</td>
</tr>
<tr>
<td>PSP-A-1</td>
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<td>NDR</td>
</tr>
<tr>
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<td>NDR</td>
</tr>
<tr>
<td>NAPS-A-2</td>
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<td>NDR</td>
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</tbody>
</table>

### Water

<table>
<thead>
<tr>
<th>Site</th>
<th>Gamma and Tritium Activity – pCi/Liter</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Mn 54</td>
</tr>
<tr>
<td>SPS-W-1</td>
<td>NDR</td>
</tr>
<tr>
<td>SPS-W-2</td>
<td>NDR</td>
</tr>
<tr>
<td>SPS-W-3</td>
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<tr>
<td>NAPS-W-1</td>
<td>NDR</td>
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<td>NDR</td>
</tr>
<tr>
<td>NAPS-W-3</td>
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</tr>
</tbody>
</table>

---

21 Due to Dominion Power Station refueling outage and the reduction of intake pumps, Tritium sample is level was elevated.
**Virginia Department of Health**  
**Week 17: 04/23/18 - 04/30/18**

## Air

<table>
<thead>
<tr>
<th>Site</th>
<th>I-131 Activity pCi/meter$^3$</th>
<th>Cs-134 Activity pCi/meter$^3$</th>
<th>Cs-137 Activity pCi/meter$^3$</th>
<th>Gross Beta Activity pCi/meter$^3$</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPS-A-1</td>
<td>NDR</td>
<td>NDR</td>
<td>NDR</td>
<td>0.03 +/- 0.005</td>
</tr>
<tr>
<td>SPS-A-2</td>
<td>NDR</td>
<td>NDR</td>
<td>NDR</td>
<td>0.03 +/- 0.005</td>
</tr>
<tr>
<td>PSP-A-1</td>
<td>NDR</td>
<td>NDR</td>
<td>NDR</td>
<td>0.03 +/- 0.005</td>
</tr>
<tr>
<td>NAPS-A-1</td>
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<td>NDR</td>
<td>NDR</td>
<td>0.05 +/- 0.010</td>
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<tr>
<td>NAPS-A-2</td>
<td>NDR</td>
<td>NDR</td>
<td>NDR</td>
<td>0.03 +/- 0.010</td>
</tr>
</tbody>
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## Water

<table>
<thead>
<tr>
<th>Site</th>
<th>Mn 54</th>
<th>Co 58</th>
<th>Fe 59</th>
<th>Co 60</th>
<th>Zn 65</th>
<th>Zr 95</th>
<th>I 131</th>
<th>Cs 134</th>
<th>Cs 137</th>
<th>Ba 140</th>
<th>Gross Beta</th>
<th>H3 Activity</th>
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<tbody>
<tr>
<td>SPS-W-1$^{22}$</td>
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<td>NDR</td>
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<td>NDR</td>
<td>NDR</td>
<td>NDR</td>
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<td>NDR</td>
<td>NDR</td>
<td>75 +/- 255</td>
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</tbody>
</table>

---

$^{22}$ Due to a batch release at Dominion Surry Power Plant, Tritium level is elevated.

$^{21}$ Due to Dominion Power Station refueling outage and the reduction of intake pumps, Tritium sample is level was elevated.
Virginia Department of Health  
Week 18: 04/30/18 – 05/07/18

### Air

<table>
<thead>
<tr>
<th>Site</th>
<th>Gamma &amp; Radiogas in Air</th>
<th>Air Particulate</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>I-131 Activity pCi/meter³</td>
<td>Cs-134 Activity pCi/meter³</td>
</tr>
<tr>
<td>SPS-A-1</td>
<td>NDR</td>
<td>NDR</td>
</tr>
<tr>
<td>SPS-A-2</td>
<td>NDR</td>
<td>NDR</td>
</tr>
<tr>
<td>PSP-A-1</td>
<td>NDR</td>
<td>NDR</td>
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<tr>
<td>NAPS-A-1</td>
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<td>NDR</td>
</tr>
<tr>
<td>NAPS-A-2</td>
<td>NDR</td>
<td>NDR</td>
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### Water

<table>
<thead>
<tr>
<th>Site</th>
<th>Gamma and Tritium Activity – pCi/Liter</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Mn 54</td>
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<td>SPS-W-1</td>
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</tr>
<tr>
<td>SPS-W-2</td>
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<tr>
<td>SPS-W-3</td>
<td>NDR</td>
</tr>
<tr>
<td>NAPS-W-1</td>
<td>NDR</td>
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<tr>
<td>NAPS-W-2</td>
<td>NDR</td>
</tr>
<tr>
<td>NAPS-W-3</td>
<td>NDR</td>
</tr>
</tbody>
</table>

---

24 Due to Dominion Power Station refueling outage and the reduction of intake pumps, Tritium sample is level was elevated.
**Virginia Department of Health**  
**Week 19: 05/07/18 – 05/14/18**

### Air

<table>
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<th>Site</th>
<th>Gamma &amp; Radiogas in Air</th>
<th>Air Particulate</th>
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</thead>
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<tr>
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<td>I-131 Activity pCi/meter³</td>
<td>Cs-134 Activity pCi/meter³</td>
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<td>NDR</td>
</tr>
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<td>SPS-A-2</td>
<td>NDR</td>
<td>NDR</td>
</tr>
<tr>
<td>PSP-A-1</td>
<td>NDR</td>
<td>NDR</td>
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<tr>
<td>NAPS-A-1</td>
<td>NDR</td>
<td>NDR</td>
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<tr>
<td>NAPS-A-2</td>
<td>NDR</td>
<td>NDR</td>
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### Water

<table>
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<tr>
<th>Site</th>
<th>Gamma and Tritium Activity – pCi/Liter</th>
<th>H³ Activity</th>
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<tr>
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<td>NDR</td>
</tr>
<tr>
<td>SPS-W-3</td>
<td>NDR</td>
<td>NDR</td>
</tr>
<tr>
<td>NAPS-W-1²⁶</td>
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<td>NDR</td>
</tr>
<tr>
<td>NAPS-W-2</td>
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</tr>
<tr>
<td>NAPS-W-3</td>
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<td>NDR</td>
</tr>
</tbody>
</table>

²⁵ Due to the inability to access the SPS-A-1 location, air sample was not collected.

²⁶ Due to Dominion Power Station refueling outage and the reduction of intake pumps, Tritium sample is level was elevated.
 Virginia Department of Health  
 Week 20: 05/14/18 - 05/21/18

### Air

<table>
<thead>
<tr>
<th>Site</th>
<th>Gamma &amp; Radiogas in Air</th>
<th>Air Particulate</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>I-131 Activity pCi/meter&lt;sup&gt;3&lt;/sup&gt;</td>
<td>Cs-134 Activity pCi/meter&lt;sup&gt;3&lt;/sup&gt;</td>
</tr>
<tr>
<td>SPS-A-1</td>
<td>NDR</td>
<td>NDR</td>
</tr>
<tr>
<td>SPS-A-2&lt;sup&gt;27&lt;/sup&gt;</td>
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<td>NDR</td>
</tr>
<tr>
<td>PSP-A-1</td>
<td>NDR</td>
<td>NDR</td>
</tr>
<tr>
<td>NAPS-A-1</td>
<td>NDR</td>
<td>NDR</td>
</tr>
<tr>
<td>NAPS-A-2</td>
<td>NDR</td>
<td>NDR</td>
</tr>
</tbody>
</table>

**Due to air sampler equipment malfunction, sample was not collected.**

### Water

<table>
<thead>
<tr>
<th>Site</th>
<th>Gamma and Tritium Activity – pCi/Liter</th>
<th>Gross Beta</th>
<th>H&lt;sub&gt;3&lt;/sub&gt; Activity</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Mn S4 Co 58 Fe 59 Co 60 Zn 65 Zr 95 I 131 Cs 134 Cs 137 Ba 140</td>
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<td></td>
</tr>
<tr>
<td>SPS-W-1</td>
<td>NDR NDR NDR NDR NDR NDR NDR NDR NDR NDR</td>
<td></td>
<td>2027 +/- 211</td>
</tr>
<tr>
<td>SPS-W-1 DCLS</td>
<td>&lt;5.0 &lt;5.0 &lt;9.0 &lt;5.0 &lt;11 &lt;9.0 &lt;7.0 &lt;5.0 &lt;5.0 &lt;2.3</td>
<td>&lt;69.9</td>
<td></td>
</tr>
<tr>
<td>SPS-W-2&lt;sup&gt;28&lt;/sup&gt;</td>
<td>NDR NDR NDR NDR NDR NDR NDR NDR NDR NDR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SPS-W-2 DCLS</td>
<td>&lt;3.0 &lt;3.0 &lt;7.0 &lt;3.0 &lt;7.0 &lt;5.0 &lt;4.0 &lt;3.0 &lt;3.0 &lt;12</td>
<td>&lt;6.4</td>
<td></td>
</tr>
<tr>
<td>SPS-W-3</td>
<td>NDR NDR NDR NDR NDR NDR NDR NDR NDR NDR</td>
<td></td>
<td>601 +/- 211</td>
</tr>
<tr>
<td>SPS-W-3 DCLS</td>
<td>&lt;3.0 &lt;3.0 &lt;7.0 &lt;3.0 &lt;7.0 &lt;5.0 &lt;5.0 &lt;3.0 &lt;3.0 &lt;14</td>
<td>&lt;6.4</td>
<td></td>
</tr>
<tr>
<td>NAPS-W-1&lt;sup&gt;29&lt;/sup&gt;</td>
<td>NDR NDR NDR NDR NDR NDR NDR NDR NDR NDR</td>
<td></td>
<td>11111 +/- 428</td>
</tr>
<tr>
<td>NAPS-W-1 DCLS</td>
<td>&lt;5.0 &lt;5.0 &lt;10 &lt;5.0 &lt;11 &lt;9.0 &lt;11 &lt;5.0 &lt;5.0 &lt;31</td>
<td>&lt;69.9</td>
<td></td>
</tr>
<tr>
<td>NAPS-W-2</td>
<td>NDR NDR NDR NDR NDR NDR NDR NDR NDR NDR</td>
<td></td>
<td>826 +/- 141</td>
</tr>
<tr>
<td>NAPS-W-2 DCLS</td>
<td>&lt;5.0 &lt;5.0 &lt;10 &lt;5.0 &lt;11 &lt;9.0 &lt;10 &lt;5.0 &lt;5.0 &lt;29</td>
<td>&lt;6.4</td>
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<tr>
<td>NAPS-W-3</td>
<td>NDR NDR NDR NDR NDR NDR NDR NDR NDR NDR</td>
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<td>1577 +/- 186</td>
</tr>
<tr>
<td>NAPS-W-3 DCLS</td>
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<td>&lt;6.4</td>
<td></td>
</tr>
</tbody>
</table>

<sup>27</sup> Due to air sampler equipment malfunction, sample was not collected.
<sup>28</sup> Due to the inability to access SPS-A-1, sample was not collected.
<sup>29</sup> Due to Dominion Power Station release of the Boron Recovery Tank, Tritium level was elevated.
Virginia Department of Health
Week 21: 05/21/18 – 05/28/18

### Air

<table>
<thead>
<tr>
<th>Site</th>
<th>Gamma &amp; Radiogas in Air</th>
<th>Air Particulate</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>I-131 Activity pCi/meter³</td>
<td>Cs-134 Activity pCi/meter³</td>
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<tr>
<td>SPS-A-1</td>
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<tr>
<td>SPS-A-2³¹</td>
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<tr>
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<tr>
<td>NAPS-A-1</td>
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<td>NDR</td>
</tr>
<tr>
<td>NAPS-A-2</td>
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### Water

<table>
<thead>
<tr>
<th>Site</th>
<th>Gamma and Tritium Activity – pCi/Liter</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Mn 54</td>
</tr>
<tr>
<td>SPS-W-1</td>
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</tr>
<tr>
<td>SPS-W-2</td>
<td>NDR</td>
</tr>
<tr>
<td>SPS-W-3</td>
<td>NDR</td>
</tr>
<tr>
<td>NAPS-W-1</td>
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<td>NAPS-W-2</td>
<td>NDR</td>
</tr>
<tr>
<td>NAPS-W-3</td>
<td>NDR</td>
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</tbody>
</table>

³⁰ Due to holiday, 05/28, sample was collected 05/29.
³¹ Due to air sampler being serviced, sample was not collected.
### Virginia Department of Health
**Week 22: 05/28/18 - 06/04/18**

#### Air

<table>
<thead>
<tr>
<th>Site</th>
<th>Gamma &amp; Radiogas in Air</th>
<th>Air Particulate</th>
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<tbody>
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<td>I-131 Activity pCi/meter³</td>
<td>Cs-134 Activity pCi/meter³</td>
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<tr>
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</tr>
<tr>
<td>SPS-A-2</td>
<td>NDR</td>
<td>NDR</td>
</tr>
<tr>
<td>PSP-A-1</td>
<td>NDR</td>
<td>NDR</td>
</tr>
<tr>
<td>NAPS-A-1</td>
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<td>NDR</td>
</tr>
<tr>
<td>NAPS-A-2</td>
<td>NDR</td>
<td>NDR</td>
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#### Water

<table>
<thead>
<tr>
<th>Site</th>
<th>Gamma and Tritium Activity – pCi/Liter</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Mn 54</td>
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<tr>
<td>SPS-W-1</td>
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<tr>
<td>SPS-W-2</td>
<td>NDR</td>
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<tr>
<td>SPS-W-3</td>
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</tr>
<tr>
<td>NAPS-W-1³³</td>
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<tr>
<td>NAPS-W-2</td>
<td>NDR</td>
</tr>
<tr>
<td>NAPS-W-3</td>
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</tr>
</tbody>
</table>

---

³² Due to holiday, 05/29, sample was collected 06/04.

³³ Due to Dominion Power Station refueling outage and the reduction of intake pumps, Tritium sample is level was elevated.
## Virginia Department of Health

**Week 23: 06/04/18 - 06/11/18**

### Air

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<th>Site</th>
<th>Gamma &amp; Radiogas in Air</th>
<th>Air Particulate</th>
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### Water

<table>
<thead>
<tr>
<th>Site</th>
<th>Gamma and Tritium Activity – pCi/Liter</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Mn 54</td>
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<tr>
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</table>

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34 Due to the MICL being serviced, sample was not collected.
Virginia Department of Health  
Week 24: 06/11/18 – 06/18/18

### Air

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<th>Gamma &amp; Radiogas in Air</th>
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</tr>
<tr>
<td>NAPS-A-2</td>
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### Water

<table>
<thead>
<tr>
<th>Site</th>
<th>Gamma and Tritium Activity – pCi/Liter</th>
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</thead>
<tbody>
<tr>
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<td>SPS-W-3</td>
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<tr>
<td>NAPS-W-3</td>
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35 Due to the MICL being serviced, sample was not collected.
## Virginia Department of Health
### Week 25: 06/18/18 – 06/25/18

### Air

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<th>Air Particulate</th>
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<td>I-131 Activity pCi/meter$^3$</td>
<td>Cs-134 Activity pCi/meter$^3$</td>
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### Water

<table>
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<tr>
<th>Site</th>
<th>Gamma and Tritium Activity – pCi/Liter</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Mn 54</td>
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<td>NAPS-W-3</td>
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$^3$ Due to the MICL being serviced, sample was not collected.
Virginia Department of Health  
Week 26: 06/25/18 - 07/02/18

### Air

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<th>Air Particulate</th>
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<tbody>
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<td>Cs-134 Activity pCi/meter</td>
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<td>NDR</td>
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<tr>
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</table>

### Water

<table>
<thead>
<tr>
<th>Site</th>
<th>Gamma and Tritium Activity – pCi/Liter</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Mn 54</td>
</tr>
<tr>
<td>SPS-W-1</td>
<td>NDR</td>
</tr>
<tr>
<td>SPS-W-2</td>
<td>NDR</td>
</tr>
<tr>
<td>SPS-W-3</td>
<td>NDR</td>
</tr>
<tr>
<td>NAPS-W-1</td>
<td>NDR</td>
</tr>
<tr>
<td>NAPS-W-2</td>
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<tr>
<td>NAPS-W-3</td>
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</table>
## Virginia Department of Health
### Week 27: 07/02/18 – 07/09/18

### Air

<table>
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<th>Site</th>
<th>Gamma &amp; Radiogas in Air</th>
<th>Air Particulate</th>
</tr>
</thead>
<tbody>
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<td>I-131 Activity pCi/meter^3</td>
<td>Cs-134 Activity pCi/meter^3</td>
</tr>
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<td>SPS-A-1</td>
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<tr>
<td>SPS-A-2</td>
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</tr>
<tr>
<td>PSP-A-1</td>
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### Water

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Virginia Department of Health
Week 28: 07/09/18 - 07/16/18

Air

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Water

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# Virginia Department of Health
## Week 29: 07/16/18 - 07/23/18

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**Virginia Department of Health**  
**Week 31: 07/30/18 – 08/06/18**

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- **I-131 Activity** $\text{pCi/meter}^3$
- **Cs-134 Activity** $\text{pCi/meter}^3$
- **Cs-137 Activity** $\text{pCi/meter}^3$
- **Gross Beta Activity** $\text{pG/meter}^3$

### Water

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- **Mn 54**
- **Co 58**
- **Fe 59**
- **Co 60**
- **Zn 65**
- **Zr 95**
- **I 131**
- **Cs 134**
- **Cs 137**
- **Ba 140**
- **Gross Beta**
- **H3 Activity**
Virginia Department of Health
Week 32: 08/06/18 – 08/13/18

**Air**

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Virginia Department of Health  
Week 33: 08/13/18 - 08/20/18

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Virginia Department of Health  
Week 35: 08/27/18 - 09/03/18

## Air

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Virginia Department of Health  
Week 36: 09/03/18 – 09/10/18

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| SPS-A-2 |                         |                 |
| PSP-A-1 |                         |                 |
| NAPS-A-1 |                        |                 |
| NAPS-A-2 |                        |                 |

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| NAPS-W-2 |                        |                 |
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Virginia Department of Health
Week 38: 09/17/18 - 09/24/18

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Virginia Department of Health
Week 39: 09/24/18 – 10/01/18

Air

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Virginia Department of Health
Week 40: 10/01/18 - 10/08/18

Air

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### Air

**Site** | **Gamma & Radiogas in Air** | **Air Particulate**
---|---|---
 | I-131 Activity pCi/meter<sup>3</sup> | Cs-134 Activity pCi/meter<sup>3</sup> | Cs-137 Activity pCi/meter<sup>3</sup> | Gross Beta Activity pCi/meter<sup>3</sup>
SPS-A-1 |  |  |  |
SPS-A-2 |  |  |  |
PSP-A-1 |  |  |  |
NAPS-A-1 |  |  |  |
NAPS-A-2 |  |  |  |

### Water

**Site** | **Gamma and Tritium Activity – pCi/Liter**
---|---
 | Mn 54 | Co 58 | Fe 59 | Co 60 | Zn 65 | Zr 95 | I 131 | Cs 134 | Cs 137 | Ba 140 | Gross Beta | H3 Activity
SPS-W-1 |  |  |  |  |  |  |  |  |  |  |  |  |
SPS-W-2 |  |  |  |  |  |  |  |  |  |  |  |  |
SPS-W-3 |  |  |  |  |  |  |  |  |  |  |  |  |
NAPS-W-1 |  |  |  |  |  |  |  |  |  |  |  |  |
NAPS-W-2 |  |  |  |  |  |  |  |  |  |  |  |  |
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## Virginia Department of Health
### Week 42: 10/15/18 – 10/22/18

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Virginia Department of Health  
Week 43: 10/22/18 – 10/29/18

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Virginia Department of Health
Week 44: 10/29/18 – 11/05/18

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Virginia Department of Health
Week 45: 11/05/18 - 11/12/18

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Water

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## Virginia Department of Health
### Week 46: 11/12/18 – 11/19/18

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Virginia Department of Health  
Week 47: 11/19/18 - 11/26/18

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Virginia Department of Health  
Week 48: 11/26/18 - 12/03/18

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### Virginia Department of Health
**Week 49: 12/03/08 - 12/10/18**

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Virginia Department of Health
Week 50: 12/10/18 - 12/17/18

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Virginia Department of Health  
Week 51: 12/17/18 - 12/24/18

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# Virginia Department of Health
## Week 52: 12/24/18 – 12/31/18

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<td>SPS-A-1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SPS-A-2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSP-A-1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NAPS-A-1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NAPS-A-2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Water

<table>
<thead>
<tr>
<th>Site</th>
<th>Gamma and Tritium Activity – pCi/Liter</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Mn 54</td>
</tr>
<tr>
<td>SPS-W-1</td>
<td></td>
</tr>
<tr>
<td>SPS-W-2</td>
<td></td>
</tr>
<tr>
<td>SPS-W-3</td>
<td></td>
</tr>
<tr>
<td>NAPS-W-1</td>
<td></td>
</tr>
<tr>
<td>NAPS-W-2</td>
<td></td>
</tr>
<tr>
<td>NAPS-W-3</td>
<td></td>
</tr>
</tbody>
</table>
Virginia Department of Health
SURFACE WATER

January 1, 2018 through June 30, 2018

Newport News Shipyard

James River – Pier 1
NNSB-W-1

<table>
<thead>
<tr>
<th>Qtr.</th>
<th>Date collected</th>
<th>Gamma Activity – pCi/liter</th>
<th>Gross Beta pCi/liter</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Ba-140 Cs-137 I-131 Mn-54 Zn-65 Zr95/Nb95</td>
<td></td>
</tr>
<tr>
<td>1st</td>
<td>03/29/18&lt;sup&gt;37&lt;/sup&gt;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2nd</td>
<td>06/19/18</td>
<td>&lt;21.0 &lt;5.0 &lt;6.0 &lt;5.0 &lt;11.0 &lt;9.0</td>
<td>126.5±14.2</td>
</tr>
</tbody>
</table>

James River – Shipway #11
NNSB-W-2

<table>
<thead>
<tr>
<th>Qtr.</th>
<th>Date collected</th>
<th>Gamma Activity – pCi/liter</th>
<th>Gross Beta pCi/liter</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Ba-140 Cs-137 I-131 Mn-54 Zn-65 Zr95/Nb95</td>
<td></td>
</tr>
<tr>
<td>1st</td>
<td>03/29/18&lt;sup&gt;37&lt;/sup&gt;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2nd</td>
<td>06/19/18</td>
<td>&lt;26.0 &lt;5.0 &lt;9.0 &lt;5.0 &lt;11.0 &lt;9.0</td>
<td>122.5±14.3</td>
</tr>
</tbody>
</table>

<sup>37</sup> Water sample was rejected by Division of Consolidated Lab Services.
Virginia Department of Health
SURFACE WATER
January 1, 2018 through June 30, 2018
Norfolk Naval Shipyard
Elizabeth River – Dry Dock #4
Norfolk Naval Shipyard NNSY-W-1

<table>
<thead>
<tr>
<th>Qtr.</th>
<th>Date collected</th>
<th>Gamma Activity – pCi/liter</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>03/28/18(^{38})</td>
<td>Ba-140 Cs-137 I-131 Mn-54 Zn-65 Zr95/Nb95</td>
</tr>
</tbody>
</table>

1st
Gross Beta
Gross Alpha

<table>
<thead>
<tr>
<th></th>
<th>06/19/18</th>
<th>Ba-140 Cs-137 I-131 Mn-54 Zn-65 Zr95/Nb95</th>
</tr>
</thead>
<tbody>
<tr>
<td>2nd</td>
<td>&lt;11.0 &lt;3.0 &lt;3.0 &lt;3.0 &lt;8.0 &lt;6.0</td>
<td></td>
</tr>
<tr>
<td>Gross Beta</td>
<td>163.3±16.7</td>
<td></td>
</tr>
</tbody>
</table>

Elizabeth River – Dry Dock #8
Norfolk Naval Shipyard NNSY-W-2

<table>
<thead>
<tr>
<th>Qtr.</th>
<th>Date collected</th>
<th>Gamma Activity – pCi/liter</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>03/29/18(^{39})</td>
<td>Ba-140 Cs-137 I-131 Mn-54 Zn-65 Zr95/Nb95</td>
</tr>
</tbody>
</table>

1st
Gross Beta

<table>
<thead>
<tr>
<th></th>
<th>06/19/18</th>
<th>Ba-140 Cs-137 I-131 Mn-54 Zn-65 Zr95/Nb95</th>
</tr>
</thead>
<tbody>
<tr>
<td>2nd</td>
<td>&lt;15.0 &lt;3.0 &lt;5.0 &lt;3.0 &lt;7.0 &lt;3.0</td>
<td></td>
</tr>
<tr>
<td>Gross Beta</td>
<td>156.7±16.1</td>
<td></td>
</tr>
</tbody>
</table>

\(^{38}\) Water sample was rejected by Division of Consolidated Lab Services.
\(^{39}\) Water sample was rejected by Division of Consolidated Lab Services.
Virginia Department of Health
SURFACE WATER
January 1, 2018 through June 30, 2018
Norfolk Naval Shipyard
Elizabeth River – Wet Slip #1
Norfolk Naval Shipyard NNSY-W-3

<table>
<thead>
<tr>
<th>Qtr.</th>
<th>Date collected</th>
<th>Gamma Activity – pCi/liter</th>
</tr>
</thead>
<tbody>
<tr>
<td>03/29/18</td>
<td></td>
<td>Ba-140 Cs-137 I-131 Mn-54 Zn-65 Zr95/Nb95</td>
</tr>
<tr>
<td>1st</td>
<td></td>
<td>Gross Beta</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Qtr.</th>
<th>Date collected</th>
<th>Gamma Activity – pCi/liter</th>
</tr>
</thead>
<tbody>
<tr>
<td>06/19/18</td>
<td></td>
<td>Ba-140 Cs-137 I-131 Mn-54 Zn-65 Zr95/Nb95</td>
</tr>
<tr>
<td>2nd</td>
<td></td>
<td>&lt;15.0 &lt;3.0 &lt;5.0 &lt;3.0 &lt;7.0 &lt;5.0</td>
</tr>
<tr>
<td>Gross Beta</td>
<td></td>
<td>156.1±15.5</td>
</tr>
</tbody>
</table>

40 Water sample was rejected by Division of Consolidated Lab Services.
## Virginia Department of Health
### FISH

January 1, 2018 through June 30, 2018

### Dominion Nuclear Power Station

<table>
<thead>
<tr>
<th>Location</th>
<th>Type of fish</th>
<th>Date Collected</th>
<th>Isotope</th>
<th>pCi/gram</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>North Anna 2\textsuperscript{nd} Cooling Lagoon</strong></td>
<td></td>
<td>04/18/18</td>
<td>Ba-140</td>
<td>&lt;0.05 pCi/g</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Cs-134</td>
<td>&lt;0.01 pCi/g</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Cs-137</td>
<td>0.01 +/- 0.01 pCi/g</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Co-58</td>
<td>&lt;0.01 pCi/g</td>
</tr>
<tr>
<td><strong>NAPS- F-1</strong></td>
<td>(Fish)</td>
<td></td>
<td>Co-60</td>
<td>&lt;0.01 pCi/g</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>I-131</td>
<td>&lt;0.02 pCi/g</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Fe-59</td>
<td>&lt;0.01 pCi/g</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Mn-54</td>
<td>&lt;0.01 pCi/g</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Ru-106</td>
<td>&lt;0.05 pCi/g</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Ag-110M</td>
<td>&lt;0.01 pCi/g</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Zn-65</td>
<td>&lt;0.01 pCi/g</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Nb-95</td>
<td>&lt;0.01 pCi/g</td>
</tr>
<tr>
<td><strong>Surry Discharge Canal</strong></td>
<td></td>
<td>04/23/18</td>
<td>Ba-140</td>
<td>&lt;0.07 pCi/g</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Cs-134</td>
<td>&lt;0.01 pCi/g</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Cs-137</td>
<td>&lt;0.01 pCi/g</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Co-58</td>
<td>&lt;0.01 pCi/g</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Co-60</td>
<td>&lt;0.01 pCi/g</td>
</tr>
<tr>
<td><strong>SPS-F-1</strong></td>
<td>(Fish)</td>
<td></td>
<td>I-131</td>
<td>&lt;0.04 pCi/g</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Fe-59</td>
<td>&lt;0.02 pCi/g</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Mn-54</td>
<td>&lt;0.01 pCi/g</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Ru-106</td>
<td>&lt;0.05 pCi/g</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Ag-110M</td>
<td>&lt;0.01 pCi/g</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Zn-65</td>
<td>&lt;0.01 pCi/g</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Nb-95</td>
<td>&lt;0.01 pCi/g</td>
</tr>
</tbody>
</table>

Note: Fish samples collected during the 2\textsuperscript{nd} and 4\textsuperscript{th} quarter.
## Virginia Department of Health
### SHELLFISH

January 1, 2018 through June 30, 2018

<table>
<thead>
<tr>
<th>Location</th>
<th>Date Collected</th>
<th>Isotope</th>
<th>pCi/gram</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surry Power Station</td>
<td>04/23/18</td>
<td>Ba-140</td>
<td>&lt;0.16 pCi/g</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Cs-134</td>
<td>&lt;0.01 pCi/g</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Cs-137</td>
<td>&lt;0.01 pCi/g</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Co-58</td>
<td>&lt;0.01 pCi/g</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Co-60</td>
<td>&lt;0.01 pCi/g</td>
</tr>
<tr>
<td>SPS-R-1</td>
<td>I-131</td>
<td>&lt;0.16 pCi/g</td>
<td></td>
</tr>
<tr>
<td>(Clams and Oysters)</td>
<td></td>
<td>Fe-59</td>
<td>&lt;0.02 pCi/g</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mn-54</td>
<td>&lt;0.01 pCi/g</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ru-106</td>
<td>&lt;0.05 pCi/g</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ag-110M</td>
<td>&lt;0.01 pCi/g</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Zn-65</td>
<td>&lt;0.01 pCi/g</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Nb-95</td>
<td>&lt;0.01 pCi/g</td>
</tr>
</tbody>
</table>

Note: Shellfish are collected annually when available.
Virginia Department of Health
SILT

January 1, 2018 through June 30, 2018

Surry Power Station
Discharge Canal, James River – SPS-S-1

<table>
<thead>
<tr>
<th>Quarter</th>
<th>Date Collected</th>
<th>Gamma Activity pCi/gram</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Cs-134</td>
</tr>
<tr>
<td>1st</td>
<td>02/05/18</td>
<td>&lt;0.01 pCi/g</td>
</tr>
</tbody>
</table>

North Anna Power
Waste Treatment NAPS-S-1

<table>
<thead>
<tr>
<th>Quarter</th>
<th>Date Collected</th>
<th>Gamma Activity pCi/gram</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Cs-134</td>
</tr>
<tr>
<td>2nd</td>
<td>04/12/18</td>
<td>&lt;0.01 pCi/g</td>
</tr>
</tbody>
</table>

Note: Silt samples are collected bi-annually.
Virginia Department of Health
SILT

January 1, 2018 through June 30, 2018

Newport News Shipyard

<table>
<thead>
<tr>
<th>Location</th>
<th>Date Collected</th>
<th>Gamma Activity pCi/gram</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Cs-134</td>
</tr>
<tr>
<td>James River – Pier 1</td>
<td>03/29/18</td>
<td>&lt; 0.01</td>
</tr>
<tr>
<td>NNSB-S-1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>James River – Pier 1</td>
<td>06/19/18</td>
<td>&lt; 0.01</td>
</tr>
<tr>
<td>NNSB-S-1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>James River – Shipway 11</td>
<td>03/29/18</td>
<td>&lt; 0.01</td>
</tr>
<tr>
<td>NNSB-S-2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>James River – Shipway 11</td>
<td>06/19/18</td>
<td>&lt; 0.01</td>
</tr>
</tbody>
</table>
### Newport News Shipbuilder

<table>
<thead>
<tr>
<th>Location</th>
<th>Date Collected</th>
<th>Gamma Activity (pCi/gram)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Elizabeth River Drydock #4</strong></td>
<td>03/28/18</td>
<td></td>
</tr>
<tr>
<td>NNSY-S-1</td>
<td></td>
<td>&lt; 0.01 0.02 ± 0.01 0.02 ± 0.01 0.02 ± 0.01 0.02 ± 0.01</td>
</tr>
<tr>
<td><strong>Elizabeth River Drydock #4</strong></td>
<td>06/19/18</td>
<td></td>
</tr>
<tr>
<td>NNSY-S-1</td>
<td></td>
<td>&lt; 0.01 0.02 ± 0.01 0.02 ± 0.01 0.02 ± 0.01 0.02 ± 0.01</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Location</th>
<th>Date Collected</th>
<th>Gamma Activity (pCi/gram)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Elizabeth River Drydock #8</strong></td>
<td>03/28/18</td>
<td></td>
</tr>
<tr>
<td>NNSY-S-2</td>
<td></td>
<td>&lt; 0.01 0.02 ± 0.01 0.02 ± 0.01 0.02 ± 0.01 0.02 ± 0.01</td>
</tr>
<tr>
<td><strong>Elizabeth River Drydock #8</strong></td>
<td>06/19/18</td>
<td></td>
</tr>
<tr>
<td>NNSY-S-2</td>
<td></td>
<td>&lt; 0.01 0.02 ± 0.01 0.02 ± 0.01 0.02 ± 0.01 0.02 ± 0.01</td>
</tr>
</tbody>
</table>
# Virginia Department of Health
## SILT

January 1, 2018 through June 30, 2018

### Newport News Shipbuilder

<table>
<thead>
<tr>
<th>Location</th>
<th>Date Collected</th>
<th>Gamma Activity</th>
<th>pCi/gram</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elizabeth River</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wet Slip #1</td>
<td>03/28/18</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NNSY-S-3</td>
<td></td>
<td>Cs134</td>
<td>&lt; 0.01</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Cs137</td>
<td>0.03 ± 0.01</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Co58</td>
<td>&lt; 0.01</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Co60</td>
<td>&lt; 0.01</td>
</tr>
<tr>
<td>Elizabeth River</td>
<td>06/19/18</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wet Slip #1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NNSY-S-3</td>
<td></td>
<td>Cs134</td>
<td>&lt; 0.01</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Cs137</td>
<td>0.03 ± 0.01</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Co58</td>
<td>&lt; 0.01</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Co60</td>
<td>&lt; 0.01</td>
</tr>
</tbody>
</table>
Virginia Department of Health
Milk

January 1, 2018 through June 30, 2018

| Louisa County Lake Side Dairy  
| NAPS-M-1 |

Lake Side Dairy is no longer in operation. There are no longer any dairy farms located within the 10 mile EPZ for milk sampling.
Virginia Department of Health
Milk
January 1, 2018 through June 30, 2018

Surry County - Epps Dairy
SPS-M-1

<table>
<thead>
<tr>
<th>Isotope</th>
<th>Results - pCi/liter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ba-140</td>
<td>&lt; 12.0 pCi/L</td>
</tr>
<tr>
<td>Cs-134</td>
<td>&lt; 3.0 pCi/L</td>
</tr>
<tr>
<td>Cs-137</td>
<td>&lt; 4.0 pCi/L</td>
</tr>
<tr>
<td>K-40*</td>
<td>1.6 +/- 0.1 g/L</td>
</tr>
<tr>
<td>I-131</td>
<td>&lt; 3.0 pCi/L</td>
</tr>
<tr>
<td>Sr-89</td>
<td>&lt; 4.0 pCi/L</td>
</tr>
<tr>
<td>Sr-90</td>
<td>&lt; 0.5 pCi/L</td>
</tr>
</tbody>
</table>

Surry County - Epps Dairy
SPS-M-1

<table>
<thead>
<tr>
<th>Isotope</th>
<th>Results - pCi/liter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ba-140</td>
<td>&lt; 20.0 pCi/L</td>
</tr>
<tr>
<td>Cs-134</td>
<td>&lt; 5.0 pCi/L</td>
</tr>
<tr>
<td>Cs-137</td>
<td>&lt; 4.0 pCi/L</td>
</tr>
<tr>
<td>K-40</td>
<td>1.5 ± 0.1 g/L</td>
</tr>
<tr>
<td>I-131</td>
<td>&lt; 6.0 pCi/L</td>
</tr>
<tr>
<td>Sr-89</td>
<td>&lt; 4.0 pCi/L</td>
</tr>
<tr>
<td>Sr-90</td>
<td>&lt; 0.4 pCi/L</td>
</tr>
<tr>
<td>Location</td>
<td>Station</td>
</tr>
<tr>
<td>--------------------------------------</td>
<td>-----------</td>
</tr>
<tr>
<td>Jamestown – Historical site</td>
<td>SPS-D-1</td>
</tr>
<tr>
<td>Williamsburg – Airport</td>
<td>SPS-D-2</td>
</tr>
<tr>
<td>Williamsburg – Busch Gardens</td>
<td>SPS-D-3</td>
</tr>
<tr>
<td>Newport News - Lee Hall</td>
<td>SPS-D-4</td>
</tr>
<tr>
<td>Naval Weapons Station – 1</td>
<td>SPS-D-5</td>
</tr>
<tr>
<td>Newport News – Fort Eustis</td>
<td>SPS-D-6</td>
</tr>
<tr>
<td>Surry – Route 626</td>
<td>SPS-D-7</td>
</tr>
<tr>
<td>Surry – Lawnes Creek</td>
<td>SPS-D-8</td>
</tr>
<tr>
<td>Surry Power Station</td>
<td>SPS-D-9</td>
</tr>
<tr>
<td>Surry – Hog Point</td>
<td>SPS-D-10</td>
</tr>
<tr>
<td>Surry – Bacon’s Castle</td>
<td>SPS-D-11</td>
</tr>
<tr>
<td>Surry – Alliance</td>
<td>SPS-D-12</td>
</tr>
<tr>
<td>Surry – Scotland Wharf</td>
<td>SPS-D-13</td>
</tr>
<tr>
<td>Surry – Lebanon Baptist Church</td>
<td>SPS-D-14</td>
</tr>
<tr>
<td>Louisa County - Mineral</td>
<td>NAPS-D-1</td>
</tr>
<tr>
<td>Louisa County – Wares Crossroads</td>
<td>NAPS-D-2</td>
</tr>
<tr>
<td>Louisa County – Good Hope Church</td>
<td>NAPS-D-3</td>
</tr>
<tr>
<td>Spotsylvania – Route 713</td>
<td>NAPS-D-4</td>
</tr>
<tr>
<td>Spotsylvania Route 614</td>
<td>NAPS-D-5</td>
</tr>
<tr>
<td>Spotsylvania – Levy</td>
<td>NAPS-D-6</td>
</tr>
<tr>
<td>Louisa County – Bumpass Fire Dept.</td>
<td>NAPS-D-7</td>
</tr>
<tr>
<td>Louisa County – Fred Hall</td>
<td>NAPS-D-8</td>
</tr>
<tr>
<td>Louisa County – Aspen Hill</td>
<td>NAPS-D-9</td>
</tr>
<tr>
<td>Louisa County – Route 685</td>
<td>NAPS-D-10</td>
</tr>
<tr>
<td>Louisa County – Route 700</td>
<td>NAPS-D-11</td>
</tr>
<tr>
<td>North Anna Power Station</td>
<td>NAPS-D-12</td>
</tr>
<tr>
<td>Pocahontas State Park (Control)</td>
<td>PSP-D-1</td>
</tr>
<tr>
<td>Radiological Health</td>
<td>ORH-D-1</td>
</tr>
<tr>
<td>Radiological Health</td>
<td>ORH-D-2</td>
</tr>
</tbody>
</table>
## Virginia Department of Health
### AMBIENT GAMMA EXPOSURE

January 1, 2018 through June 30, 2018

#### SECOND QUARTER

<table>
<thead>
<tr>
<th>Location</th>
<th>Station</th>
<th>Net Exposure Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Jamestown – Historical site</strong></td>
<td>SPS-D-1</td>
<td>23.55 +/- 9.70</td>
</tr>
<tr>
<td><strong>Williamsburg – Airport</strong></td>
<td>SPS-D-2</td>
<td>29.82 +/- 10.92</td>
</tr>
<tr>
<td><strong>Williamsburg – Busch Gardens</strong></td>
<td>SPS-D-3</td>
<td>29.82 +/- 10.92</td>
</tr>
<tr>
<td><strong>Newport News - Lee Hall</strong></td>
<td>SPS-D-4</td>
<td>37.31 +/- 12.22</td>
</tr>
<tr>
<td><strong>Naval Weapons Station – 1</strong></td>
<td>SPS-D-5</td>
<td>27.13 +/- 10.42</td>
</tr>
<tr>
<td><strong>Newport News – Fort Eustis</strong></td>
<td>SPS-D-6</td>
<td>27.90 +/- 10.56</td>
</tr>
<tr>
<td><strong>Surry – Route 626</strong></td>
<td>SPS-D-7</td>
<td>10.13 +/- 6.36</td>
</tr>
<tr>
<td><strong>Surry – Lawnes Creek</strong></td>
<td>SPS-D-8</td>
<td>28.25 +/- 10.63</td>
</tr>
<tr>
<td><strong>Surry Power Station</strong></td>
<td>SPS-D-9</td>
<td>27.34 +/- 10.46</td>
</tr>
<tr>
<td><strong>Surry – Hog Point</strong></td>
<td>SPS-D-10</td>
<td>23.78 +/- 9.75</td>
</tr>
<tr>
<td><strong>Surry – Bacon’s Castle</strong></td>
<td>SPS-D-11</td>
<td>26.29 +/- 10.26</td>
</tr>
<tr>
<td><strong>Surry – Alliance</strong></td>
<td>SPS-D-12</td>
<td>22.57 +/- 9.50</td>
</tr>
<tr>
<td><strong>Surry – Scotland Wharf</strong></td>
<td>SPS-D-13</td>
<td>27.54 +/- 10.50</td>
</tr>
<tr>
<td><strong>Surry – Lebanon Baptist Church</strong></td>
<td>SPS-D-14</td>
<td>20.60 +/- 9.08</td>
</tr>
<tr>
<td><strong>Louisa County - Mineral</strong></td>
<td>NAPS-D-1</td>
<td>36.20 +/- 12.03</td>
</tr>
<tr>
<td><strong>Louisa County – Wares Crossroads</strong></td>
<td>NAPS-D-2</td>
<td>25.53 +/- 10.11</td>
</tr>
<tr>
<td><strong>Louisa County – Good Hope Church</strong></td>
<td>NAPS-D-3</td>
<td>29.55 +/- 10.87</td>
</tr>
<tr>
<td><strong>Spotsylvania – Route 713</strong></td>
<td>NAPS-D-4</td>
<td>24.88 +/- 9.98</td>
</tr>
<tr>
<td><strong>Spotsylvania Route 614</strong></td>
<td>NAPS-D-5</td>
<td>25.72 +/- 10.14</td>
</tr>
<tr>
<td><strong>Spotsylvania – Levy</strong></td>
<td>NAPS-D-6</td>
<td>31.99 +/- 11.31</td>
</tr>
<tr>
<td><strong>Louisa County – Bumpass Fire Dept.</strong></td>
<td>NAPS-D-7</td>
<td>31.76 +/- 11.27</td>
</tr>
<tr>
<td><strong>Louisa County – Fred Hall</strong></td>
<td>NAPS-D-8</td>
<td>24.88 +/- 9.98</td>
</tr>
<tr>
<td><strong>Louisa County – Aspen Hill</strong></td>
<td>NAPS-D-9</td>
<td>34.81 +/- 11.80</td>
</tr>
<tr>
<td><strong>Louisa County – Route 685</strong></td>
<td>NAPS-D-10</td>
<td>32.61 +/- 11.42</td>
</tr>
<tr>
<td><strong>Louisa County – Route 700</strong></td>
<td>NAPS-D-11</td>
<td>31.30 +/- 11.19</td>
</tr>
<tr>
<td><strong>North Anna Power Station</strong></td>
<td>NAPS-D-12</td>
<td>34.61 +/- 11.77</td>
</tr>
<tr>
<td><strong>Pocahontas State Park (Control)</strong></td>
<td>PSP-D-1</td>
<td>41.77 +/- 12.93</td>
</tr>
<tr>
<td><strong>Radiological Health</strong></td>
<td>ORH-D-1</td>
<td>15.48 +/- 7.87</td>
</tr>
<tr>
<td><strong>Radiological Health</strong></td>
<td>ORH-D-2</td>
<td>15.86 +/- 7.96</td>
</tr>
</tbody>
</table>
Virginia Department of Health

VEGETATION

January 1, 2018 through June 30, 2018

<table>
<thead>
<tr>
<th>Location</th>
<th>Date collected</th>
<th>Type</th>
<th>Isotope</th>
<th>Results pCi/Gram (wet weight)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surry County</td>
<td>04/25/18</td>
<td>Private garden</td>
<td>Mixed Greens</td>
<td>I-131: &lt;0.01</td>
</tr>
<tr>
<td></td>
<td></td>
<td>SPS-V-1</td>
<td></td>
<td>Cs-134: &lt;0.01</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Cs-137: &lt;0.01</td>
</tr>
<tr>
<td>Louisa County</td>
<td>04/23/18</td>
<td>Private Garden</td>
<td>Mixed Greens</td>
<td>I-131: &lt;0.01</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NAPS-V-1</td>
<td></td>
<td>Cs-134: &lt;0.01</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Cs-137: &lt;0.01</td>
</tr>
</tbody>
</table>

Note: Vegetation is collected bi-annually when available.
Virginia Department of Health

AIR PARTICULATE COMPOSITE SAMPLES

January 1, 2018 through June 30, 2018

Eastern Site Boundary – Ball field

FIRST QUARTER REPORT

<table>
<thead>
<tr>
<th>Start</th>
<th>Date</th>
<th>Stop</th>
<th>Gross Alpha Activity pCi/meter³</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st</td>
<td>01/03/2018</td>
<td>01/09/2018</td>
<td>0.001</td>
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</table>

SECOND QUARTER REPORT

<table>
<thead>
<tr>
<th>Start</th>
<th>Date</th>
<th>Stop</th>
<th>Gross Alpha Activity pCi/meter³</th>
</tr>
</thead>
<tbody>
<tr>
<td>2nd</td>
<td>04/04/2018</td>
<td>04/10/2018</td>
<td>0.001</td>
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</table>
Virginia Department of Health
SOIL
January 1, 2018 through June 30, 2018

Eastern Site Boundary / Six Mile Bridge Shoreline

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Distance &amp; Direction</th>
<th>Type</th>
<th>Alpha Activity ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eastern Site Boundary Ball field</td>
<td>N/A</td>
<td>N/A</td>
<td>Site</td>
<td>N/A</td>
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<tr>
<td>B&amp;W-S-1</td>
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<td></td>
<td>Boundary</td>
<td></td>
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</tbody>
</table>

James River Shoreline Near Six Mile Bridge
“Control” B&W-S-2

Soil samples collected annually.
Note: Uranium separation followed by alpha counting.

SURFACE WATER
January 1, 2018 through June 30, 2018

Eastern Site Boundary Shoreline / Six Mile Bridge Shoreline

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Distance &amp; Direction</th>
<th>Alpha Activity ppb</th>
</tr>
</thead>
<tbody>
<tr>
<td>James River Shoreline Near Ball field at</td>
<td>N/A</td>
<td>Approx. 3 miles</td>
<td>+/-</td>
</tr>
<tr>
<td>Eastern Site Boundary</td>
<td></td>
<td>downstream</td>
<td></td>
</tr>
<tr>
<td>B&amp;W-W-1</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

James River Shoreline Near Six Mile Bridge
“Control” B&W-W-2

Surface water samples collected annually.
Note: Uranium separation followed by alpha counting.
Virginia Department of Health  
**VEGETATION**  

January 1, 2018 through June 30, 2018

Eastern Site Boundary / James River Shoreline

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Distance &amp; Direction</th>
<th>Alpha Activity ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eastern site boundary</td>
<td>N/A</td>
<td>Approx. 3 miles</td>
<td>+/-</td>
</tr>
<tr>
<td>Ball field</td>
<td></td>
<td>downstream</td>
<td></td>
</tr>
<tr>
<td>B&amp;W-V-1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>James River</td>
<td>N/A</td>
<td>Approx. 4.5 miles</td>
<td>+/-</td>
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<tr>
<td>Shoreline off Rt. 460</td>
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<td>SW</td>
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<tr>
<td>“Control”</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>B&amp;W-V-2</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Vegetation collected annually.  
Note: Uranium separation followed by alpha counting.
EMERGENCY PREPAREDNESS

The Office of Radiological Health (ORH) located within the Virginia Department of Health (VDH) is one of the lead response agencies for emergencies involving the potential or actual release of radioactive materials. Overall, state level emergency response is described in the Commonwealth of Virginia Radiological Emergency Response Plan (COVRERP), which is developed and maintained by the Virginia Department of Emergency Management (VDEM). In addition to generic guidelines for responding to any major radiological emergency, the response procedures contain segments addressing response to several specific types of radiological incidents. This includes sections which provide information needed for response to Licensee and Transportation accidents. Other sections contain background information and response guidance for accidents at fixed nuclear facilities. Plans are also being developed to respond to possible radiological terrorist attacks, which may include detonation of a radiological dispersion device (RDD aka “dirty bomb”), an improvised nuclear device (IND), or a military grade nuclear warhead.

When responding to any radiological emergency, the primary tasks of the Office of Radiological Health are to locate, identify, and predict the impact of any radioactive materials released to the environment. Based on the predicted or known impact, ORH then recommends appropriate measures to protect the public. ORH would also be tasked with helping to supervise the cleanup of radiological contamination and ensuring the proper disposal of radioactive waste. An ORH duty officer maintains 24-hour coverage to provide initial assessment/assistance for local responders and may also initiate the mobilization/deployment of other trained staff to respond to a radiological emergency when needed.

Under the provisions of current Federal Emergency Management Agency (FEMA) regulations, ORH conducts or participates in periodic drills that are designed to provide team training and to test emergency plans and procedures. The scope of these drills ranges from receiving and acknowledging simulated emergency communications to full-scale team deployment.

Federal regulations for commercial nuclear power generating facilities stipulate that a full-scale exercise involving appropriate local government participation and testing all significant response elements must be conducted and evaluated every other year. Because there are two such facilities, Surry and North Anna Nuclear Power Stations, Commonwealth of Virginia agencies will perform exercise activities on a yearly basis, alternating between the sites each year.