

**Table 1**  
**Summary of PFAS Concentrations in Groundwater**  
**Northrop Grumman Systems Corporation**  
**Bethpage, New York**

Constituents <sup>(1)</sup> (units in ng/L)	Abbreviation	CAS Number	Location ID:	BCPMW-4-1	BCPMW-4-2	BCPMW-5-1	GM-13D
			Sample ID:	BCPMW-4-1	BCPMW-4-2	BCPMW-5-1	GM-13D
			Date:	7/24/2018	7/24/2018	7/26/2018	7/17/2018
Perfluorobutanesulfonic acid	PFBS	375-73-5		<b>1.58 J</b>	<b>2.36</b>	3.45	< 2.0
Perfluorohexanesulfonic acid	PFHxS	355-46-4		< 2.0	<b>2.28</b>	< 2.6	<b>2.27</b>
Perfluoroheptanesulfonic acid	PFHpS	375-92-8		< 4.0	< 4.0	< 5.3	< 4.0
Perfluorooctanesulfonic acid	PFOS	1763-23-1		<b>3.35</b>	<b>3.99</b>	6.53	<b>8.80</b>
Perfluorodecanesulfonic acid	PFDS	335-77-3		< 4.0	< 4.0	< 5.3	< 4.0
Perfluorobutanoic acid	PFBA	375-22-4		<b>7.09 J</b>	<b>28.0</b>	13.4	<b>11.1</b>
Perfluoropentanoic acid	PFPeA	2706-90-3		<b>8.15</b>	<b>71.3</b>	19.7	<b>11.1</b>
Perfluorohexanoic acid	PFHxA	307-24-4		<b>6.84</b>	<b>37.6</b>	13.0	<b>8.93</b>
Perfluoroheptanoic acid	PFHpA	375-85-9		<b>7.15</b>	<b>27.6</b>	12.8	<b>7.93</b>
Perfluorooctanoic acid	PFOA	335-67-1		<b>21.1</b>	<b>18.5</b>	15.4	<b>28.2</b>
Perfluorononanoic acid	PFNA	375-95-1		<b>4.23</b>	<b>2.46</b>	2.80	<b>4.51</b>
Perfluorodecanoic acid	PFDA	335-76-2		< 4.0	< 4.0	1.40 J	<b>1.55 J</b>
Perfluoroundecanoic acid	PFUA/PFUdA	2058-94-8		< 4.0	< 4.0	< 5.3	< 4.0
Perfluorododecanoic acid	PFDoA	307-55-1		< 4.0	< 4.0	< 5.3	< 4.0
Perfluorotridecanoic acid	PFTriA/PFTTrDA	72629-94-8		< 4.0	< 4.0	< 5.3	< 4.0
Perfluorotetradecanoic acid	PFTA/PFTeDA	376-06-7		< 4.0	< 4.0	< 5.3	< 4.0
6:2 Fluorotelomer sulfonate	6:2 FTS	27619-97-2		<b>7.11 J</b>	<b>21.1</b>	< 11	< 8.0
8:2 Fluorotelomer sulfonate	8:2 FTS	39108-34-4		< 8.0	< 8.0	< 11	< 8.0
Perfluorooctanesulfonamide	FOSA	754-91-6		< 4.0	< 4.0	< 5.3	< 4.0
N-methyl perfluorooctanesulfonamidoacetic acid	N-MeFOSAA	2355-31-9		< 20	< 20	< 26	< 20
N-ethyl perfluorooctanesulfonamidoacetic acid	N-EtFOSSAA	2991-50-6		< 20	< 20	< 26	< 20

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Constituents <sup>(1)</sup> (units in ng/L)	Abbreviation	CAS Number	Location ID:	GM-15SR	GM-15I	GM-15D	GM-15D2
			Sample ID:	GM-15SR	GM-15I	GM-15D	GM-15D2
			Date:	7/18/2018	7/18/2018	7/18/2018	7/18/2018
Perfluorobutanesulfonic acid	PFBS	375-73-5		<b>1.33 J</b>	<b>2.08</b>	<b>1.28 J</b>	< 2.0
Perfluorohexanesulfonic acid	PFHxS	355-46-4		< 2.05 B	<b>10.7</b>	<b>10.2</b>	< 2.0
Perfluoroheptanesulfonic acid	PFHpS	375-92-8		< 4.0	< 4.0	< 4.0	< 4.0
Perflouroctanesulfonic acid	PFOS	1763-23-1		< 7.75 B	< 29.3 B	< 11.4 B	< 2.0
Perfluorodecanesulfonic acid	PFDS	335-77-3		< 4.0	< 4.0	< 4.0	< 4.0
Perfluorobutanoic acid	PFBA	375-22-4		<b>7.07 J</b>	<b>15.3</b>	<b>15.1</b>	< 8.0
Perfluoropentanoic acid	PFPeA	2706-90-3		< 8.91 B	<b>37.9</b>	<b>16.7</b>	< 4.0
Perfluorohexanoic acid	PFHxA	307-24-4		< 6.83 B	<b>25.5</b>	<b>16.8</b>	< 4.0
Perfluoroheptanoic acid	PFHpA	375-85-9		< 8.06 B	<b>18.5</b>	<b>18.8</b>	< 2.0
Perfluorooctanoic acid	PFOA	335-67-1		< 22.7 B	<b>93.3</b>	< 35.3 B	< 2.0
Perfluorononanoic acid	PFNA	375-95-1		<b>33.6</b>	<b>279</b>	< 8.44 B	< 2.0
Perfluorodecanoic acid	PFDA	335-76-2		<b>6.26</b>	<b>41.8</b>	< 4.0	< 4.0
Perfluoroundecanoic acid	PFUA/PFUdA	2058-94-8		< 4.0	<b>2.50 J</b>	< 4.0	< 4.0
Perfluorododecanoic acid	PFDoA	307-55-1		< 4.0	< 4.0	< 4.0	< 4.0
Perfluorotridecanoic acid	PFTriA/PFTTrDA	72629-94-8		< 4.0	< 4.0	< 4.0	< 4.0
Perfluorotetradecanoic acid	PFTA/PFTeDA	376-06-7		< 4.0	< 4.0	< 4.0	< 4.0
6:2 Fluorotelomer sulfonate	6:2 FTS	27619-97-2		< 8.0	<b>5.42 J</b>	< 8.0	< 8.0
8:2 Fluorotelomer sulfonate	8:2 FTS	39108-34-4		< 8.0	< 8.0	< 8.0	< 8.0
Perfluorooctanesulfonamide	FOSA	754-91-6		< 4.0	< 4.0	< 4.0	< 4.0
N-methyl perfluorooctanesulfonamidoacetic acid	N-MeFOSAA	2355-31-9		< 20	< 20	< 20	< 20
N-ethyl perfluorooctanesulfonamidoacetic acid	N-EtFOSSAA	2991-50-6		< 20	< 20	< 20	< 20

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Constituents <sup>(1)</sup> (units in ng/L)	Abbreviation	CAS Number	Location ID:	GM-17I	GM-17D	GM-19S	GM-19I
			Sample ID:	GM-17I	GM-17D	GM-19S	GM-19I
			Date:	8/1/2018	7/12/2018	7/17/2018	7/17/2018
Perfluorobutanesulfonic acid	PFBS	375-73-5		< 2.0	< 1.9	<b>3.62</b>	< 2.4
Perfluorohexanesulfonic acid	PFHxS	355-46-4		<b>4.53</b>	<b>3.83</b>	<b>1.51 J</b>	<b>2.46</b>
Perfluoroheptanesulfonic acid	PFHpS	375-92-8		< 4.0	< 3.7	< 4.0	< 4.8
Perflouroctanesulfonic acid	PFOS	1763-23-1		<b>15.0</b>	<b>16.1</b>	<b>3.95</b>	<b>14.0</b>
Perfluorodecanesulfonic acid	PFDS	335-77-3		< 4.0	< 3.7	< 4.0	< 4.8
Perfluorobutanoic acid	PFBA	375-22-4		<b>3.42 J</b>	<b>3.90 J</b>	<b>16.0</b>	<b>3.94 J</b>
Perfluoropentanoic acid	PFPeA	2706-90-3		<b>5.54</b>	<b>6.67</b>	<b>25.3</b>	<b>6.76</b>
Perfluorohexanoic acid	PFHxA	307-24-4		<b>4.79</b>	<b>5.29</b>	<b>18.3</b>	<b>5.04</b>
Perfluoroheptanoic acid	PFHpA	375-85-9		<b>4.89</b>	<b>4.55</b>	<b>31.2</b>	<b>5.78</b>
Perfluorooctanoic acid	PFOA	335-67-1		<b>10.7</b>	<b>10.6</b>	<b>55.6</b>	<b>15.3</b>
Perfluorononanoic acid	PFNA	375-95-1		<b>13.1</b>	<b>11.2</b>	<b>22.4</b>	<b>39.4</b>
Perfluorodecanoic acid	PFDA	335-76-2		< 4.0	< 3.7	< 4.0	< 4.8
Perfluoroundecanoic acid	PFUA/PFUdA	2058-94-8		< 4.0	< 3.7	< 4.0	<b>2.77 J</b>
Perfluorododecanoic acid	PFDoA	307-55-1		< 4.0	< 3.7	< 4.0	< 4.8
Perfluorotridecanoic acid	PFTriA/PFTrDA	72629-94-8		< 4.0	< 3.7	< 4.0	<b>2.56 J</b>
Perfluorotetradecanoic acid	PFTA/PFTeDA	376-06-7		< 4.0	< 3.7	< 4.0	< 4.8
6:2 Fluorotelomer sulfonate	6:2 FTS	27619-97-2		< 8.0	< 7.4	<b>34.1</b>	< 9.5
8:2 Fluorotelomer sulfonate	8:2 FTS	39108-34-4		< 8.0	< 7.4	< 8.0	< 9.5
Perfluorooctanesulfonamide	FOSA	754-91-6		< 4.0	< 3.7	< 4.0	< 4.8
N-methyl perfluorooctanesulfonamidoacetic acid	N-MeFOSAA	2355-31-9		< 20	< 19	< 20	< 24
N-ethyl perfluorooctanesulfonamidoacetic acid	N-EtFOSSAA	2991-50-6		< 20	< 19	< 20	< 24

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Constituents <sup>(1)</sup> (units in ng/L)	Abbreviation	CAS Number	Location ID:	GM-21D2	GM-21D2	GM-33D2	GM-34D2
			Sample ID:	GM-21D2	REP071918DC1	GM-33D2	GM-34D2
			Date:	7/19/2018	7/19/2018	7/20/2018	7/20/2018
Perfluorobutanesulfonic acid	PFBS	375-73-5		< 1.9	< 1.9	< 2.1	< 2.0
Perfluorohexanesulfonic acid	PFHxS	355-46-4		<b>1.50 J</b>	<b>1.33 J</b>	<b>2.04 J</b>	< 2.0
Perfluoroheptanesulfonic acid	PFHpS	375-92-8		< 3.8	< 3.8	< 4.2	< 4.0
Perfluorooctanesulfonic acid	PFOS	1763-23-1		<b>8.41</b>	<b>8.00</b>	<b>12.2</b>	<b>9.96</b>
Perfluorodecanesulfonic acid	PFDS	335-77-3		< 3.8	< 3.8	< 4.2	< 4.0 J
Perfluorobutanoic acid	PFBA	375-22-4		<b>3.75 J</b>	<b>4.03 J</b>	<b>2.96 J</b>	<b>3.19 J</b>
Perfluoropentanoic acid	PFPeA	2706-90-3		<b>5.38</b>	<b>5.30</b>	<b>3.51 J</b>	<b>3.77 J</b>
Perfluorohexanoic acid	PFHxA	307-24-4		<b>4.01</b>	<b>4.20</b>	<b>3.15 J</b>	<b>2.39 J</b>
Perfluoroheptanoic acid	PFHpA	375-85-9		<b>4.53</b>	<b>4.50</b>	<b>2.93</b>	<b>2.13</b>
Perfluorooctanoic acid	PFOA	335-67-1		<b>11.6</b>	<b>10.9</b>	<b>9.76</b>	<b>7.45</b>
Perfluorononanoic acid	PFNA	375-95-1		<b>32.3</b>	<b>31.3</b>	<b>2.41</b>	<b>2.70</b>
Perfluorodecanoic acid	PFDA	335-76-2		< 3.8	< 3.8	< 4.2	< 4.0
Perfluoroundecanoic acid	PFUA/PFUdA	2058-94-8		< 3.8	< 3.8	< 4.2	< 4.0
Perfluorododecanoic acid	PFDoA	307-55-1		< 3.8	< 3.8	< 4.2	<b>1.71 J</b>
Perfluorotridecanoic acid	PFTriA/PFTTrDA	72629-94-8		< 3.8	< 3.8	< 4.2	< 4.0
Perfluorotetradecanoic acid	PFTA/PFTeDA	376-06-7		< 3.8	< 3.8	< 4.2	< 4.0
6:2 Fluorotelomer sulfonate	6:2 FTS	27619-97-2		< 7.7	< 7.7	< 8.3	< 8.0
8:2 Fluorotelomer sulfonate	8:2 FTS	39108-34-4		< 7.7	< 7.7	< 8.3	< 8.0
Perfluorooctanesulfonamide	FOSA	754-91-6		< 3.8	< 3.8	< 4.2	< 4.0
N-methyl perfluorooctanesulfonamidoacetic acid	N-MeFOSAA	2355-31-9		< 19	< 19	< 21	< 20
N-ethyl perfluorooctanesulfonamidoacetic acid	N-EtFOSSAA	2991-50-6		< 19	< 19	< 21	< 20

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Constituents <sup>(1)</sup> (units in ng/L)	Abbreviation	CAS Number	Location ID:	GM-35D2	GM-38D2	GM-71D2	GM-73D
			Sample ID:	GM-35D2	GM-38D2	GM-71D2	GM-73D
			Date:	7/17/2018	7/16/2018	7/16/2018	7/12/2018
Perfluorobutanesulfonic acid	PFBS	375-73-5		< 2.0	< 2.0	< 1.9	< 1.9
Perfluorohexanesulfonic acid	PFHxS	355-46-4		<b>1.35 J</b>	<b>3.89</b>	<b>2.20</b>	<b>1.57 J</b>
Perfluoroheptanesulfonic acid	PFHpS	375-92-8		< 4.0	< 4.0	< 3.7	< 3.7
Perfluorooctanesulfonic acid	PFOS	1763-23-1		<b>7.35</b>	<b>7.32</b>	<b>4.15</b>	<b>9.06</b>
Perfluorodecanesulfonic acid	PFDS	335-77-3		< 4.0	< 4.0	< 3.7	< 3.7
Perfluorobutanoic acid	PFBA	375-22-4		< 8.0	<b>6.77 J</b>	<b>5.24 J</b>	<b>7.37 J</b>
Perfluoropentanoic acid	PFPeA	2706-90-3		<b>3.74 J</b>	<b>20.8</b>	<b>12.9</b>	<b>16.3</b>
Perfluorohexanoic acid	PFHxA	307-24-4		<b>2.62 J</b>	<b>15.5</b>	<b>8.32</b>	<b>10.6</b>
Perfluoroheptanoic acid	PFHpA	375-85-9		<b>3.00</b>	<b>28.3</b>	<b>10.0</b>	<b>11.7</b>
Perfluorooctanoic acid	PFOA	335-67-1		<b>7.81</b>	<b>64.8</b>	<b>45.1</b>	<b>20.8</b>
Perfluorononanoic acid	PFNA	375-95-1		<b>14.1</b>	<b>99.9 J</b>	<b>113</b>	<b>149</b>
Perfluorodecanoic acid	PFDA	335-76-2		<b>1.14 J</b>	< 4.0	< 3.7	<b>2.65 J</b>
Perfluoroundecanoic acid	PFUA/PFUdA	2058-94-8		< 4.0	< 4.0	< 3.7	<b>16.8</b>
Perfluorododecanoic acid	PFDoA	307-55-1		< 4.0	< 4.0	< 3.7	< 3.7
Perfluorotridecanoic acid	PFTriA/PFTTrDA	72629-94-8		< 4.0	< 4.0	< 3.7	< 3.7
Perfluorotetradecanoic acid	PFTA/PFTeDA	376-06-7		< 4.0	< 4.0	< 3.7	< 3.7
6:2 Fluorotelomer sulfonate	6:2 FTS	27619-97-2		< 8.0	< 8.0	<b>3.22 J</b>	< 7.4
8:2 Fluorotelomer sulfonate	8:2 FTS	39108-34-4		< 8.0	< 8.0	< 7.4	<b>2.19 J</b>
Perfluorooctanesulfonamide	FOSA	754-91-6		< 4.0	< 4.0	< 3.7	< 3.7
N-methyl perfluorooctanesulfonamidoacetic acid	N-MeFOSAA	2355-31-9		< 20	< 20	< 19	< 19
N-ethyl perfluorooctanesulfonamidoacetic acid	N-EtFOSSAA	2991-50-6		< 20	< 20	< 19	< 19

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Constituents <sup>(1)</sup> (units in ng/L)	Abbreviation	CAS Number	Location ID:	GM-73D2	GM-74I	GM-74D	GM-74D2
			Sample ID:	GM-73D2	GM-74I	GM-74D	GM-74D2
			Date:	7/12/2018	7/11/2018	7/11/2018	7/11/2018
Perfluorobutanesulfonic acid	PFBS	375-73-5		< 1.9	< 1.9	< 1.9	< 1.9
Perfluorohexanesulfonic acid	PFHxS	355-46-4		<b>1.11 J</b>	<b>1.84 J</b>	<b>1.79 J</b>	<b>1.52 J</b>
Perfluoroheptanesulfonic acid	PFHpS	375-92-8		< 3.7	< 3.8	< 3.8	< 3.8
Perfluorooctanesulfonic acid	PFOS	1763-23-1		<b>7.32</b>	<b>7.89</b>	<b>7.99</b>	<b>5.89</b>
Perfluorodecanesulfonic acid	PFDS	335-77-3		< 3.7	< 3.8	< 3.8	< 3.8
Perfluorobutanoic acid	PFBA	375-22-4		<b>3.88 J</b>	<b>4.52 J</b>	<b>3.47 J</b>	<b>1.98 J</b>
Perfluoropentanoic acid	PFPeA	2706-90-3		<b>7.57</b>	<b>7.19</b>	<b>5.30</b>	<b>2.36 J</b>
Perfluorohexanoic acid	PFHxA	307-24-4		<b>5.25</b>	<b>5.75</b>	<b>4.31</b>	<b>1.88 J</b>
Perfluoroheptanoic acid	PFHpA	375-85-9		<b>5.86</b>	<b>5.57</b>	<b>4.37</b>	<b>1.65 J</b>
Perfluorooctanoic acid	PFOA	335-67-1		<b>11.6</b>	<b>14.1</b>	<b>11.0</b>	<b>8.48</b>
Perfluorononanoic acid	PFNA	375-95-1		<b>49.7</b>	<b>34.4</b>	<b>25.7</b>	<b>3.40</b>
Perfluorodecanoic acid	PFDA	335-76-2		< 3.7	<b>1.14 J</b>	< 3.8	< 3.8
Perfluoroundecanoic acid	PFUA/PFUdA	2058-94-8		<b>5.07</b>	< 3.8	< 3.8	< 3.8
Perfluorododecanoic acid	PFDoA	307-55-1		< 3.7	< 3.8	< 3.8	< 3.8
Perfluorotridecanoic acid	PFTriA/PFTTrDA	72629-94-8		< 3.7	< 3.8	< 3.8	< 3.8
Perfluorotetradecanoic acid	PFTA/PFTeDA	376-06-7		< 3.7	< 3.8	< 3.8	< 3.8
6:2 Fluorotelomer sulfonate	6:2 FTS	27619-97-2		< 7.4	< 7.7	< 7.7	< 7.7
8:2 Fluorotelomer sulfonate	8:2 FTS	39108-34-4		< 7.4	< 7.7	< 7.7	< 7.7
Perfluorooctanesulfonamide	FOSA	754-91-6		< 3.7	< 3.8	< 3.8	< 3.8
N-methyl perfluorooctanesulfonamidoacetic acid	N-MeFOSAA	2355-31-9		< 19	< 19	< 19	< 19
N-ethyl perfluorooctanesulfonamidoacetic acid	N-EtFOSSAA	2991-50-6		< 19	< 19	< 19	< 19

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Constituents <sup>(1)</sup> (units in ng/L)	Abbreviation	CAS Number	Location ID:	GM-75D2	GM-79D	MW-02GF	MW-109-3
			Sample ID:	GM-75D2	GM-79D	MW-02GF	MW-109-3
			Date:	7/19/2018	7/20/2018	7/26/2018	7/13/2018
Perfluorobutanesulfonic acid	PFBS	375-73-5		< 2.0	< 1.9	<b>2.35</b>	<b>1.13 J</b>
Perfluorohexanesulfonic acid	PFHxS	355-46-4		<b>1.07 J</b>	<b>1.31 J</b>	<b>4.76</b>	< 3.73 B
Perfluoroheptanesulfonic acid	PFHpS	375-92-8		< 4.0	< 3.8	< 4.0	< 4.0
Perflouroctanesulfonic acid	PFOS	1763-23-1		<b>10.2</b>	<b>6.31</b>	<b>12.6</b>	< 15.4 B
Perfluorodecanesulfonic acid	PFDS	335-77-3		< 4.0	< 3.8	< 4.0	< 4.0
Perfluorobutanoic acid	PFBA	375-22-4		<b>3.49 J</b>	<b>3.41 J</b>	<b>10.5</b>	< 8.64 B
Perfluoropentanoic acid	PFPeA	2706-90-3		<b>4.74</b>	<b>6.65</b>	<b>17.0</b>	< 6.90 B
Perfluorohexanoic acid	PFHxA	307-24-4		<b>3.62 J</b>	<b>4.64</b>	<b>15.0</b>	< 6.49 B
Perfluoroheptanoic acid	PFHpA	375-85-9		<b>4.21</b>	<b>6.39</b>	<b>10.2</b>	< 6.51 B
Perfluorooctanoic acid	PFOA	335-67-1		<b>9.45</b>	<b>15.1</b>	<b>21.9</b>	< 10.3 B
Perfluorononanoic acid	PFNA	375-95-1		<b>18.2</b>	<b>32.1</b>	<b>4.16</b>	<b>2.75</b>
Perfluorodecanoic acid	PFDA	335-76-2		< 4.0	< 3.8	< 4.0	< 4.0
Perfluoroundecanoic acid	PFUA/PFUdA	2058-94-8		< 4.0	< 3.8	< 4.0	< 4.0
Perfluorododecanoic acid	PFDoA	307-55-1		< 4.0	< 3.8	< 4.0	< 4.0
Perfluorotridecanoic acid	PFTriA/PFTTrDA	72629-94-8		< 4.0	< 3.8	< 4.0	< 4.0
Perfluorotetradecanoic acid	PFTA/PFTeDA	376-06-7		< 4.0	< 3.8	< 4.0	< 4.0
6:2 Fluorotelomer sulfonate	6:2 FTS	27619-97-2		< 8.0	< 7.7	< 8.0	< 8.0
8:2 Fluorotelomer sulfonate	8:2 FTS	39108-34-4		< 8.0	< 7.7	< 8.0	< 8.0
Perfluorooctanesulfonamide	FOSA	754-91-6		< 4.0	< 3.8	< 4.0	< 4.0
N-methyl perfluorooctanesulfonamidoacetic acid	N-MeFOSAA	2355-31-9		< 20	< 19	< 20	< 20
N-ethyl perfluorooctanesulfonamidoacetic acid	N-EtFOSSAA	2991-50-6		< 20	< 19	< 20	< 20

**Table 1**  
**Summary of PFAS Concentrations in Groundwater**  
**Northrop Grumman Systems Corporation**  
**Bethpage, New York**

Constituents <sup>(1)</sup> (units in ng/L)	Abbreviation	CAS Number	Location ID:	MW-111-4	MW-111-4	MW-3-1	RW-21_MW-3-1
			Sample ID:	MW-111-4	REP071318DC1	MW-3-1	RW-21_MW-3-1
			Date:	7/13/2018	7/13/2018	7/19/2018	8/2/2018
Perfluorobutanesulfonic acid	PFBS	375-73-5		<b>39.8 J</b>	<b>1.17 J</b>	<b>2.53</b>	< 2.0
Perfluorohexanesulfonic acid	PFHxS	355-46-4		< 2.24 B	< 2.3	<b>7.40</b>	< 2.0
Perfluoroheptanesulfonic acid	PFHpS	375-92-8		< 4.0	< 4.5	< 4.0	< 4.0
Perflourooctanesulfonic acid	PFOS	1763-23-1		< 2.0	< 4.96 B	<b>44.9</b>	< 2.0
Perfluorodecanesulfonic acid	PFDS	335-77-3		< 4.0	< 4.5	< 4.0	< 4.0
Perfluorobutanoic acid	PFBA	375-22-4		< 8.0 B	< 9.1	<b>3.95 J</b>	< 8.0
Perfluoropentanoic acid	PFPeA	2706-90-3		< 4.0	< 4.5	<b>10.5</b>	< 4.0
Perfluorohexanoic acid	PFHxA	307-24-4		< 6.51 BJ	< 4.5 BJ	<b>7.04</b>	< 4.0
Perfluoroheptanoic acid	PFHpA	375-85-9		< 2.0 B	< 2.3	<b>5.50</b>	< 2.0
Perfluorooctanoic acid	PFOA	335-67-1		< 7.69 B	< 5.47 B	<b>8.60</b>	2.28
Perfluorononanoic acid	PFNA	375-95-1		< 2.0	<b>1.11 J</b>	<b>8.18</b>	< 2.0
Perfluorodecanoic acid	PFDA	335-76-2		< 4.0	< 4.5	< 4.0	< 4.0
Perfluoroundecanoic acid	PFUA/PFUdA	2058-94-8		< 4.0	< 4.5	< 4.0	< 4.0
Perfluorododecanoic acid	PFDoA	307-55-1		< 4.0	< 4.5	< 4.0	< 4.0
Perfluorotridecanoic acid	PFTriA/PFTTrDA	72629-94-8		< 4.0	< 4.5	< 4.0	< 4.0
Perfluorotetradecanoic acid	PFTA/PFTeDA	376-06-7		< 4.0	< 4.5	< 4.0	< 4.0
6:2 Fluorotelomer sulfonate	6:2 FTS	27619-97-2		< 8.0	< 9.1	< 8.0	< 8.0
8:2 Fluorotelomer sulfonate	8:2 FTS	39108-34-4		< 8.0	< 9.1	< 8.0	< 8.0
Perfluorooctanesulfonamide	FOSA	754-91-6		< 4.0 J	< 4.5	< 4.0	< 4.0
N-methyl perfluorooctanesulfonamidoacetic acid	N-MeFOSAA	2355-31-9		< 20	< 23	< 20	< 20
N-ethyl perfluorooctanesulfonamidoacetic acid	N-EtFOSSAA	2991-50-6		< 20	< 23	< 20	< 20



**Table 1**  
**Summary of PFAS Concentrations in Groundwater**  
**Northrop Grumman Systems Corporation**  
**Bethpage, New York**

Constituents <sup>(1)</sup> (units in ng/L)	Abbreviation	CAS Number	Location ID: Sample ID: Date:	RW-21_MW-7 RW-21_MW-7 7/23/2018	RW-21-MW-11 RW-21-MW-11 7/23/2018
Perfluorobutanesulfonic acid	PFBS	375-73-5		< 2.1	< 3.1
Perfluorohexanesulfonic acid	PFHxS	355-46-4		< 2.1	< 3.1
Perfluoroheptanesulfonic acid	PFHpS	375-92-8		< 4.2	< 6.3
Perfluorooctanesulfonic acid	PFOS	1763-23-1		< 2.1	< 3.1
Perfluorodecanesulfonic acid	PFDS	335-77-3		< 4.2	< 6.3
Perfluorobutanoic acid	PFBA	375-22-4		< 8.3	< 13
Perfluoropentanoic acid	PFPeA	2706-90-3		< 4.2	< 6.3
Perfluorohexanoic acid	PFHxA	307-24-4		< 4.2	< 6.3
Perfluoroheptanoic acid	PFHpA	375-85-9		< 2.1	< 3.1
Perfluorooctanoic acid	PFOA	335-67-1		<b>1.44 J</b>	<b>11.1</b>
Perfluorononanoic acid	PFNA	375-95-1		< 2.1	< 3.1
Perfluorodecanoic acid	PFDA	335-76-2		< 4.2	< 6.3
Perfluoroundecanoic acid	PFUA/PFUdA	2058-94-8		< 4.2	< 6.3
Perfluorododecanoic acid	PFDoA	307-55-1		< 4.2	< 6.3
Perfluorotridecanoic acid	PFTriA/PFTTrDA	72629-94-8		< 4.2	< 6.3
Perfluorotetradecanoic acid	PFTA/PFTeDA	376-06-7		< 4.2	< 6.3
6:2 Fluorotelomer sulfonate	6:2 FTS	27619-97-2		< 8.3	< 13
8:2 Fluorotelomer sulfonate	8:2 FTS	39108-34-4		< 8.3	< 13
Perfluorooctanesulfonamide	FOSA	754-91-6		< 4.2	< 6.3
N-methyl perfluorooctanesulfonamidoacetic acid	N-MeFOSAA	2355-31-9		< 21	< 31
N-ethyl perfluorooctanesulfonamidoacetic acid	N-EtFOSSAA	2991-50-6		< 21	< 31

**Table 1**  
**Summary of PFAS Concentrations in Groundwater,**  
**Northrop Grumman Systems Corporation**  
**Bethpage, New York**

**Notes and Abbreviations:**

(1) Sample analysis by USEPA Method 537

Results validated following protocols specified in Groundwater Monitoring Plan 2016

<b>7.11</b>	Bold value indicates a detection
ng/L	Nanograms/ liter. Nanograms/liter is equivalent to parts per trillion (ppt)
<4.0	Constituent not detected above its laboratory quantification limit.
B	Constituent identified in associated blank sample
J	Value is estimated concentration
REP	Blind duplicate sample
PFAS	Per- and polyfluoroalkyl substances
USEPA	United States Environmental Protection Agency

**Table 2**  
**Summary of 1,4-Dioxane Concentrations in Groundwater,**  
**Northrop Grumman Systems Corporation,**  
**Bethpage, New York**

Constituents (units in µg/L)	Location ID: Sample ID: Date:	BCPMW-4-1 BCPMW-4-1 7/24/2018	BCPMW-4-2 BCPMW-4-2 7/24/2018	BCPMW-5-1 BCPMW-5-1 06/12/20	GM-13D GM-13D 6/13/2018	GM-15SR GM-15SR 6/6/2018	GM-15I GM-15I 6/6/2018	GM-15D GM-15D 6/6/2018	GM-15D2 GM-15D2 6/6/2018
1,4-Dioxane		<b>0.68</b>	<b>2.4</b>	< 0.96	<b>3.0</b>	<b>0.50</b>	<b>0.18 J</b>	< 0.17	<b>3.8</b>

**Table 2**  
**Summary of 1,4-Dioxane Concentrations in Groundwater,**  
**Northrop Grumman Systems Corporation,**  
**Bethpage, New York**

Constituents (units in µg/L)	Location ID: Sample ID: Date:	GM-17I GM-17I 7/13/2018	GM-17D GM-17D 6/8/2018	GM-19I GM-19I 7/18/2018	GM-19S GM-19S 7/18/2018	GM-21D2 GM-21D2 6/14/2018	GM-33D2 GM-33D2 6/13/2018	GM-34D2 GM-34D2 6/7/2018	GM-35D2 GM-35D2 6/8/2018
1,4-Dioxane		7.7	7.8	4.1	< 0.17	5.2	14	13	8.3

**Table 2**  
**Summary of 1,4-Dioxane Concentrations in Groundwater,**  
**Northrop Grumman Systems Corporation,**  
**Bethpage, New York**

Constituents (units in µg/L)	Location ID: Sample ID: Date:	GM-38D2 GM-38D2 6/7/2018	GM-71D2 GM-71D2 6/15/2018	GM-73D GM-73D 6/5/2018	GM-73D2 GM-73D2 6/5/2018	GM-74I GM-74I 6/5/2018	GM-74D GM-74D 6/5/2018	GM-74D2 GM-74D2 6/5/2018	GM-75D2 GM-75D2 6/13/2018
1,4-Dioxane		3.9	2.2	4.9	3.3	5.3	5.3	3.4	8.8

**Table 2**  
**Summary of 1,4-Dioxane Concentrations in Groundwater,**  
**Northrop Grumman Systems Corporation,**  
**Bethpage, New York**

Constituents (units in µg/L)	Location ID: Sample ID: Date:	GM-79D GM-79D 6/18/2018	MW-02GF MW-02GF 6/15/2018	MW-109-3 MW-109-3 7/13/2018	MW-111-4 MW-111-4 7/13/2018	MW-3-1 MW-3-1 6/11/2018	RW-21_MW-11 RW-21_MW-11 8/3/2018	RW-21_MW-3-1 RW-21_MW-3-1 08/02/20
1,4-Dioxane		6.2	38	4.7	20	17	20	140

**Table 2**  
**Summary of 1,4-Dioxane Concentrations in Groundwater,**  
**Northrop Grumman Systems Corporation,**  
**Bethpage, New York**

Constituents (units in µg/L)	Location ID: Sample ID: Date:	RW-21_MW-7 RW-21_MW-7 8/3/2018
1,4-Dioxane		<b>150</b>

**Table 2**  
**Summary of 1,4-Dioxane Concentrations in Groundwater,**  
**Northrop Grumman Systems Corporation,**  
**Bethpage, New York**

**Notes and Abbreviations:**

(1) Sample analysis by USEPA Method 8270D SIM

Results validated following protocols specified in Groundwater Monitoring Plan 2016

<b>0.68</b>	Bold value indicates a detection
µg/L	Micrograms per liter
<0.96	Constituent not detected above its laboratory quantification limit.
J	Value is estimated concentration
USEPA	United States Environmental Protection Agency
SIM	Selected Ion Monitoring