

**TOWN OF COUPEVILLE & FT. CASEY TREATMENT PLANT
 WELL 108
 434 WANAMAKER ROAD
 COUPEVILLE, WA 98239
 WI-CV-1RW23-0520
 Date Sampled: May 20, 2020
 Time Sampled: 10:10
 Validated Results Provided: September 8, 2020**

Below are the **validated** test results for your drinking water sampled on May 20, 2020. These results indicate that your drinking water is below the U.S. Environmental Protection Agency (EPA)'s lifetime health advisory for Perfluorooctane Sulfonate (PFOS) and/or Perfluorooctanoic acid (PFOA). Based upon the completion of data validation, no results or qualifier flags have changed for the test results listed below.

The Navy's Environmental Restoration Program analyzed for eighteen per- and polyfluoroalkyl substances (PFAS) as part of this drinking water investigation; however, PFOA and PFOS are the only PFAS for which EPA has established a lifetime health advisory. The Navy provides bottled water when the sample results exceed the EPA's lifetime health advisory.

If the EPA or the State of Washington Department of Ecology sets health advisories for other PFAS compounds in the future, then the Navy will evaluate necessary actions to take based on the health advisories.

Results of Laboratory Analytical Tests for PFAS with EPA Health Advisory Levels

| Chemical Name | May 2020 | Health Advisory (ppt) |
|---|--------------|-----------------------|
| | Result (ppt) | |
| Perfluorooctane Sulfonate (PFOS) | 1.44 J | 70 |
| Perfluorooctanoic acid (PFOA) | 58.7 | 70 |
| PFOS and PFOA (cumulative) ¹ | 60.1 | 70 |

¹ Only detected values of PFOS and PFOA are summed.

J – Analyte present, but result is estimated

ppt – parts per trillion

Results for other PFAS where no EPA Health Advisory Levels have been established

| Chemical Name | May 2020 | Health Advisory (ppt) |
|--|--------------|-----------------------|
| | Result (ppt) | |
| Perfluorobutane sulfonate (PFBS) | 18.7 | Not applicable |
| Perfluorohexanoic acid (PFHxA) | 40.7 | Not applicable |
| Perfluoroheptanoic acid (PFHpA) | 9.85 | Not applicable |
| Perfluorohexane sulfonate (PFHxS) | 61.0 | Not applicable |
| Perfluorononanoic acid (PFNA) | ND | Not applicable |
| Perfluoro-n-decanoic acid (PFDA) | ND | Not applicable |
| N-Ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA) | ND | Not applicable |
| N-Methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA) | ND | Not applicable |
| Perfluoro-n-undecanoic acid (PFUnA) | ND | Not applicable |
| Perfluoro-n-dodecanoic acid (PFDoA) | ND | Not applicable |
| Perfluoro-n-tridecanoic acid (PFTrDA) | ND | Not applicable |
| Perfluoro-n-tetradecanoic acid (PFTeDA) | ND | Not applicable |

| Chemical Name | May 2020 | Health Advisory (ppt) |
|--|--------------|-----------------------|
| | Result (ppt) | |
| Hexafluoropropylene oxide dimer acid (HFPO-DA) | ND | Not applicable |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | ND | Not applicable |
| 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) | ND | Not applicable |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS) | ND | Not applicable |

ND – Analyte not detected in the sample

ppt – parts per trillion

**TOWN OF COUPEVILLE& FT. CASEY TREATMENT PLANT
 WELL 106
 434 WANAMAKER ROAD
 COUPVILLE, WA 98239
 WI-CV-1RW25-0520
 Date Sampled: May 20, 2020
 Time Sampled: 9:35
 Validated Results Provided: September 8, 2020**

Below are the **validated** test results for your drinking water sampled on May 20, 2020. These results indicate that your drinking water is below the U.S. Environmental Protection Agency (EPA)'s lifetime health advisory for Perfluorooctane Sulfonate (PFOS) and/or Perfluorooctanoic acid (PFOA). Based upon the completion of data validation, no results or qualifier flags have changed for the test results listed below.

The Navy's Environmental Restoration Program analyzed for eighteen per- and polyfluoroalkyl substances (PFAS) as part of this drinking water investigation; however, PFOA and PFOS are the only PFAS for which EPA has established a lifetime health advisory. The Navy provides bottled water when the sample results exceed the EPA's lifetime health advisory.

If the EPA or the State of Washington Department of Ecology sets health advisories for other PFAS compounds in the future, then the Navy will evaluate necessary actions to take based on the health advisories.

Results of Laboratory Analytical Tests for PFAS with EPA Health Advisory Levels

| Chemical Name | May 2020 | Health Advisory (ppt) |
|---|--------------|-----------------------|
| | Result (ppt) | |
| Perfluorooctane Sulfonate (PFOS) | ND | 70 |
| Perfluorooctanoic acid (PFOA) | ND | 70 |
| PFOS and PFOA (cumulative) ¹ | ND | 70 |

¹ Only detected values of PFOS and PFOA are summed.

ND – Analyte not detected in the sample

ppt – parts per trillion

Results for other PFAS where no EPA Health Advisory Levels have been established

| Chemical Name | May 2020 | Health Advisory (ppt) |
|--|--------------|-----------------------|
| | Result (ppt) | |
| Perfluorobutane sulfonate (PFBS) | ND | Not applicable |
| Perfluorohexanoic acid (PFHxA) | ND | Not applicable |
| Perfluoroheptanoic acid (PFHpA) | ND | Not applicable |
| Perfluorohexane sulfonate (PFHxS) | ND | Not applicable |
| Perfluorononanoic acid (PFNA) | ND | Not applicable |
| Perfluoro-n-decanoic acid (PFDA) | ND | Not applicable |
| N-Ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA) | ND | Not applicable |
| N-Methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA) | ND | Not applicable |
| Perfluoro-n-undecanoic acid (PFUnA) | ND | Not applicable |
| Perfluoro-n-dodecanoic acid (PFDoA) | ND | Not applicable |
| Perfluoro-n-tridecanoic acid (PFTrDA) | ND | Not applicable |
| Perfluoro-n-tetradecanoic acid (PFTeDA) | ND | Not applicable |

| Chemical Name | May 2020 | Health Advisory (ppt) |
|--|--------------|-----------------------|
| | Result (ppt) | |
| Hexafluoropropylene oxide dimer acid (HFPO-DA) | ND | Not applicable |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | ND | Not applicable |
| 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) | ND | Not applicable |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS) | ND | Not applicable |

ND – Analyte not detected in the sample

ppt – parts per trillion

Sample ID: W1-CV-IRW25-0520

EPA Method 537.1

| Client Data | | | Laboratory Data | | |
|-------------|----------------|-----------------|-----------------|----------------|-----------------|
| Name: | CH2M Hill | Matrix: | Drinking Water | Lab Sample: | 2001113-03 |
| Project: | 9000NVT3 | Date Collected: | 20-May-20 09:35 | Date Received: | 22-May-20 10:00 |
| Location: | Drinking Water | | | Column: | BEH C18 |

| Analyte | CAS Number | Conc. (ng/L) | DL | LOD | LOQ | Qualifiers | Batch | Extracted | Samp Size | Analyzed | Dilution |
|-------------------|-------------|--------------|----------|------------|---------|------------|-----------|-----------------|-----------|-----------------|----------|
| PFBs | 375-73-5 | ND | 0.776 | 1.55 | 2.07 | | B0E0195 | 28-May-20 | 0.242 L | 02-Jun-20 04:39 | 1 |
| PFHxA | 307-24-4 | ND | 0.776 | 1.55 | 2.07 | | B0E0195 | 28-May-20 | 0.242 L | 02-Jun-20 04:39 | 1 |
| HFPO-DA | 13252-13-6 | ND | 1.04 | 2.07 | 2.33 | | B0E0195 | 28-May-20 | 0.242 L | 02-Jun-20 04:39 | 1 |
| PFHpA | 375-85-9 | ND | 0.776 | 1.55 | 2.07 | | B0E0195 | 28-May-20 | 0.242 L | 02-Jun-20 04:39 | 1 |
| ADONA | 919005-14-4 | ND | 0.776 | 1.55 | 2.07 | | B0E0195 | 28-May-20 | 0.242 L | 02-Jun-20 04:39 | 1 |
| PFHxA | 355-46-4 | ND | 0.776 | 1.55 | 2.07 | | B0E0195 | 28-May-20 | 0.242 L | 02-Jun-20 04:39 | 1 |
| PFOA | 335-67-1 | ND | 0.776 | 1.55 | 2.07 | | B0E0195 | 28-May-20 | 0.242 L | 02-Jun-20 04:39 | 1 |
| PFNA | 375-95-1 | ND | 0.776 | 1.55 | 2.07 | | B0E0195 | 28-May-20 | 0.242 L | 02-Jun-20 04:39 | 1 |
| PFOs | 1763-23-1 | ND | 0.776 | 1.55 | 2.07 | | B0E0195 | 28-May-20 | 0.242 L | 02-Jun-20 04:39 | 1 |
| 9Cl-PF3ONS | 756426-58-1 | ND | 0.776 | 1.55 | 2.07 | | B0E0195 | 28-May-20 | 0.242 L | 02-Jun-20 04:39 | 1 |
| PFDA | 335-76-2 | ND | 0.776 | 1.55 | 2.07 | | B0E0195 | 28-May-20 | 0.242 L | 02-Jun-20 04:39 | 1 |
| MeFOSAA | 2355-31-9 | ND | 0.776 | 1.55 | 2.07 | | B0E0195 | 28-May-20 | 0.242 L | 02-Jun-20 04:39 | 1 |
| EtFOSAA | 2991-50-6 | ND | 0.776 | 1.55 | 2.07 | | B0E0195 | 28-May-20 | 0.242 L | 02-Jun-20 04:39 | 1 |
| PFUnA | 2058-94-8 | ND | 0.776 | 1.55 | 2.07 | | B0E0195 | 28-May-20 | 0.242 L | 02-Jun-20 04:39 | 1 |
| PFDoA | 307-55-1 | ND | 0.776 | 1.55 | 2.07 | | B0E0195 | 28-May-20 | 0.242 L | 02-Jun-20 04:39 | 1 |
| PFTDA | 72629-94-8 | ND | 0.776 | 1.55 | 2.07 | | B0E0195 | 28-May-20 | 0.242 L | 02-Jun-20 04:39 | 1 |
| 11Cl-PF3OLDS | 763051-92-9 | ND | 1.04 | 2.07 | 2.33 | | B0E0195 | 28-May-20 | 0.242 L | 02-Jun-20 04:39 | 1 |
| PFTeDA | 376-06-7 | ND | 0.776 | 1.55 | 2.07 | | B0E0195 | 28-May-20 | 0.242 L | 02-Jun-20 04:39 | 1 |
| Labeled Standards | Type | % Recovery | Limits | Qualifiers | Batch | Extracted | Samp Size | Analyzed | Dilution | | |
| 13C2-PFHxA | SURR | 103 | 70 - 130 | | B0E0195 | 28-May-20 | 0.242 L | 02-Jun-20 04:39 | 1 | | |
| 13C2-PFDA | SURR | 91.7 | 70 - 130 | | B0E0195 | 28-May-20 | 0.242 L | 02-Jun-20 04:39 | 1 | | |
| d5-EtFOSAA | SURR | 84.4 | 70 - 130 | | B0E0195 | 28-May-20 | 0.242 L | 02-Jun-20 04:39 | 1 | | |
| 13C3-HFPO-DA | SURR | 102 | 70 - 130 | | B0E0195 | 28-May-20 | 0.242 L | 02-Jun-20 04:39 | 1 | | |

DL - Detection Limit

LOD - Limit of Detection

LOQ - Limit of quantitation

Results reported to the DL.

When reported, PFHxA, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

ms 7/1/20

**TOWN OF COUPEVILLE & FORT CASEY TREATMENT
PLANT
WELL 190
434 WANAMAKER ROAD
COUPEVILLE, WA 98239
WI-CV-1RW26-0520
Date Sampled: May 20, 2020
Time Sampled: 09:50
Validated Results Provided: September 8, 2020**

Below are the **validated** test results for your drinking water sampled on May 20, 2020. These results indicate that your drinking water is below the U.S. Environmental Protection Agency (EPA)'s lifetime health advisory for Perfluorooctane Sulfonate (PFOS) and/or Perfluorooctanoic acid (PFOA). Based upon the completion of data validation, no results or qualifier flags have changed for the test results listed below.

The Navy's Environmental Restoration Program analyzed for eighteen per- and polyfluoroalkyl substances (PFAS) as part of this drinking water investigation; however, PFOA and PFOS are the only PFAS for which EPA has established a lifetime health advisory. The Navy provides bottled water when the sample results exceed the EPA's lifetime health advisory.

If the EPA or the State of Washington Department of Ecology sets health advisories for other PFAS compounds in the future, then the Navy will evaluate necessary actions to take based on the health advisories.

Results of Laboratory Analytical Tests for PFAS with EPA Health Advisory Levels¹

| Chemical Name | May 2020 | Health Advisory (ppt) |
|---|--------------|-----------------------|
| | Result (ppt) | |
| Perfluorooctane Sulfonate (PFOS) | ND | 70 |
| Perfluorooctanoic acid (PFOA) | ND | 70 |
| PFOS and PFOA (cumulative) ² | ND | 70 |

¹ A duplicate drinking water sample (WI-AF-1RW26P-0520) was collected in addition to the parent sample WI-AF-1RW26-0520. The most conservative values are shown from the parent sample and duplicate. The validated data for both the parent sample and duplicate sample are provided in Enclosure 2.

² Only detected values of PFOS and PFOA are summed.

ND – Analyte not detected in the sample

ppt – parts per trillion

Results for other PFAS where no EPA Health Advisory Levels have been established

| Chemical Name | May 2020 | Health Advisory (ppt) |
|--|--------------|-----------------------|
| | Result (ppt) | |
| Perfluorobutane sulfonate (PFBS) | ND | Not applicable |
| Perfluorohexanoic acid (PFHxA) | ND | Not applicable |
| Perfluoroheptanoic acid (PFHpA) | ND | Not applicable |
| Perfluorohexane sulfonate (PFHxS) | ND | Not applicable |
| Perfluorononanoic acid (PFNA) | ND | Not applicable |
| Perfluoro-n-decanoic acid (PFDA) | ND | Not applicable |
| N-Ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA) | ND | Not applicable |
| N-Methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA) | ND | Not applicable |
| Perfluoro-n-undecanoic acid (PFUnA) | ND | Not applicable |

| Chemical Name | May 2020 | Health Advisory (ppt) |
|---|--------------|-----------------------|
| | Result (ppt) | |
| Perfluoro-n-dodecanoic acid (PFDoA) | ND | Not applicable |
| Perfluoro-n-tridecanoic acid (PFTrDA) | ND | Not applicable |
| Perfluoro-n-tetradecanoic acid (PFTeDA) | ND | Not applicable |
| Hexafluoropropylene oxide dimer acid (HFPO-DA) | ND | Not applicable |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | ND | Not applicable |
| 11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) | ND | Not applicable |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS) | ND | Not applicable |

ND – Analyte not detected in the sample

ppt – parts per trillion

Sample ID: W1-CV-1RW26-0520

EPA Method 537.1

Client Data
 Name: CH2M Hill
 Project: 9000NV73
 Location: Drinking Water

Matrix: Drinking Water
 Date Collected: 20-May-20 09:50

Laboratory Data
 Lab Sample: 2001113-05
 Date Received: 22-May-20 10:00

Column: BEH C18

| Analyte | CAS Number | Conc. (ng/L) | DL | LOD | LOQ | Qualifiers | Batch | Extracted | Samp Size | Analyzed | Dilution |
|--------------------------|-------------|-------------------|---------------|-------------------|--------------|------------------|------------------|-----------------|-----------------|-----------------|----------|
| PFBS | 375-73-5 | ND | 0.758 | 1.51 | 2.02 | | B0E0195 | 28-May-20 | 0.248 L | 02-Jun-20 05:01 | 1 |
| PFHxA | 307-24-4 | ND | 0.758 | 1.51 | 2.02 | | B0E0195 | 28-May-20 | 0.248 L | 02-Jun-20 05:01 | 1 |
| HFPO-DA | 13252-13-6 | ND | 1.01 | 2.02 | 2.27 | | B0E0195 | 28-May-20 | 0.248 L | 02-Jun-20 05:01 | 1 |
| PFHpA | 375-85-9 | ND | 0.758 | 1.51 | 2.02 | | B0E0195 | 28-May-20 | 0.248 L | 02-Jun-20 05:01 | 1 |
| ADONA | 919005-14-4 | ND | 0.758 | 1.51 | 2.02 | | B0E0195 | 28-May-20 | 0.248 L | 02-Jun-20 05:01 | 1 |
| PFHxS | 355-46-4 | ND | 0.758 | 1.51 | 2.02 | | B0E0195 | 28-May-20 | 0.248 L | 02-Jun-20 05:01 | 1 |
| PFOA | 335-67-1 | ND | 0.758 | 1.51 | 2.02 | | B0E0195 | 28-May-20 | 0.248 L | 02-Jun-20 05:01 | 1 |
| PFNA | 375-95-1 | ND | 0.758 | 1.51 | 2.02 | | B0E0195 | 28-May-20 | 0.248 L | 02-Jun-20 05:01 | 1 |
| PFOS | 1763-23-1 | ND | 0.758 | 1.51 | 2.02 | | B0E0195 | 28-May-20 | 0.248 L | 02-Jun-20 05:01 | 1 |
| 9Cl-PF3ONS | 756426-58-1 | ND | 0.758 | 1.51 | 2.02 | | B0E0195 | 28-May-20 | 0.248 L | 02-Jun-20 05:01 | 1 |
| PFDA | 335-76-2 | ND | 0.758 | 1.51 | 2.02 | | B0E0195 | 28-May-20 | 0.248 L | 02-Jun-20 05:01 | 1 |
| MeFOSAA | 2355-31-9 | ND | 0.758 | 1.51 | 2.02 | | B0E0195 | 28-May-20 | 0.248 L | 02-Jun-20 05:01 | 1 |
| EtFOSAA | 2991-50-6 | ND | 0.758 | 1.51 | 2.02 | | B0E0195 | 28-May-20 | 0.248 L | 02-Jun-20 05:01 | 1 |
| PFUnA | 2058-94-8 | ND | 0.758 | 1.51 | 2.02 | | B0E0195 | 28-May-20 | 0.248 L | 02-Jun-20 05:01 | 1 |
| PFDoA | 307-55-1 | ND | 0.758 | 1.51 | 2.02 | | B0E0195 | 28-May-20 | 0.248 L | 02-Jun-20 05:01 | 1 |
| PFTtDA | 72629-94-8 | ND | 0.758 | 1.51 | 2.02 | | B0E0195 | 28-May-20 | 0.248 L | 02-Jun-20 05:01 | 1 |
| 11Cl-PF3OUds | 763051-92-9 | ND | 1.01 | 2.02 | 2.27 | | B0E0195 | 28-May-20 | 0.248 L | 02-Jun-20 05:01 | 1 |
| PFTeDA | 376-06-7 | ND | 0.758 | 1.51 | 2.02 | | B0E0195 | 28-May-20 | 0.248 L | 02-Jun-20 05:01 | 1 |
| Labeled Standards | Type | % Recovery | Limits | Qualifiers | Batch | Extracted | Samp Size | Analyzed | Dilution | | |
| 13C2-PFHxA | SURR | 99.2 | 70 - 130 | | B0E0195 | 28-May-20 | 0.248 L | 02-Jun-20 05:01 | 1 | | |
| 13C2-PFDA | SURR | 88.4 | 70 - 130 | | B0E0195 | 28-May-20 | 0.248 L | 02-Jun-20 05:01 | 1 | | |
| d5-EtFOSAA | SURR | 86.8 | 70 - 130 | | B0E0195 | 28-May-20 | 0.248 L | 02-Jun-20 05:01 | 1 | | |
| 13C3-HFPO-DA | SURR | 98.6 | 70 - 130 | | B0E0195 | 28-May-20 | 0.248 L | 02-Jun-20 05:01 | 1 | | |

DL - Detection Limit

LOD - Limit of Detection

Results reported to the DL.

LOQ - Limit of quantitation

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

MS 311120

Sample ID: W1-CV-1RW26P-0520

EPA Method 537.1

| Client Data | | Matrix: | | Laboratory Data | |
|-------------|----------------|-----------------|-----------------|-----------------|-----------------|
| Name: | CH2M Hill | Drinking Water | | Lab Sample: | 2001113-06 |
| Project: | 9000NV73 | Date Collected: | 20-May-20 10:00 | Date Received: | 22-May-20 10:00 |
| Location: | Drinking Water | | | Column: | BEH C18 |

| Analyte | CAS Number | Conc. (ng/L) | DL | LOD | LOQ | Qualifiers | Batch | Extracted | Samp Size | Analyzed | Dilution |
|--------------|-------------|--------------|-------|------|------|------------|---------|-----------|-----------|-----------------|----------|
| PFBS | 375-73-5 | ND | 0.759 | 1.52 | 2.02 | | B0E0195 | 28-May-20 | 0.247 L | 02-Jun-20 05:12 | 1 |
| PFHxA | 307-24-4 | ND | 0.759 | 1.52 | 2.02 | | B0E0195 | 28-May-20 | 0.247 L | 02-Jun-20 05:12 | 1 |
| HFPO-DA | 13252-13-6 | ND | 1.01 | 2.02 | 2.28 | | B0E0195 | 28-May-20 | 0.247 L | 02-Jun-20 05:12 | 1 |
| PFHpA | 375-85-9 | ND | 0.759 | 1.52 | 2.02 | | B0E0195 | 28-May-20 | 0.247 L | 02-Jun-20 05:12 | 1 |
| ADONA | 919005-14-4 | ND | 0.759 | 1.52 | 2.02 | | B0E0195 | 28-May-20 | 0.247 L | 02-Jun-20 05:12 | 1 |
| PFHxS | 355-46-4 | ND | 0.759 | 1.52 | 2.02 | | B0E0195 | 28-May-20 | 0.247 L | 02-Jun-20 05:12 | 1 |
| PFOA | 335-67-1 | ND | 0.759 | 1.52 | 2.02 | | B0E0195 | 28-May-20 | 0.247 L | 02-Jun-20 05:12 | 1 |
| PFNA | 375-95-1 | ND | 0.759 | 1.52 | 2.02 | | B0E0195 | 28-May-20 | 0.247 L | 02-Jun-20 05:12 | 1 |
| PFOS | 1763-23-1 | ND | 0.759 | 1.52 | 2.02 | | B0E0195 | 28-May-20 | 0.247 L | 02-Jun-20 05:12 | 1 |
| 9Cl-PF3ONS | 756426-58-1 | ND | 0.759 | 1.52 | 2.02 | | B0E0195 | 28-May-20 | 0.247 L | 02-Jun-20 05:12 | 1 |
| PFDA | 335-76-2 | ND | 0.759 | 1.52 | 2.02 | | B0E0195 | 28-May-20 | 0.247 L | 02-Jun-20 05:12 | 1 |
| MeFOSAA | 2355-31-9 | ND | 0.759 | 1.52 | 2.02 | | B0E0195 | 28-May-20 | 0.247 L | 02-Jun-20 05:12 | 1 |
| EtFOSAA | 2991-50-6 | ND | 0.759 | 1.52 | 2.02 | | B0E0195 | 28-May-20 | 0.247 L | 02-Jun-20 05:12 | 1 |
| PFUnA | 2058-94-8 | ND | 0.759 | 1.52 | 2.02 | | B0E0195 | 28-May-20 | 0.247 L | 02-Jun-20 05:12 | 1 |
| PFDoA | 307-55-1 | ND | 0.759 | 1.52 | 2.02 | | B0E0195 | 28-May-20 | 0.247 L | 02-Jun-20 05:12 | 1 |
| PFTDA | 72629-94-8 | ND | 0.759 | 1.52 | 2.02 | | B0E0195 | 28-May-20 | 0.247 L | 02-Jun-20 05:12 | 1 |
| 11Cl-PF3OUds | 763051-92-9 | ND | 1.01 | 2.02 | 2.28 | | B0E0195 | 28-May-20 | 0.247 L | 02-Jun-20 05:12 | 1 |
| PFTeDA | 376-06-7 | ND | 0.759 | 1.52 | 2.02 | | B0E0195 | 28-May-20 | 0.247 L | 02-Jun-20 05:12 | 1 |

Labeled Standards Type % Recovery Limits Qualifiers Batch Extracted Samp Size Analyzed Dilution

LOD - Limit of Detection Results reported to the DL.

LOQ - Limit of quantitation

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

NW 311120

TOWN OF COUPEVILLE & FORT CASEY TREATMENT PLANT

POST TREATMENT DISTRIBUTION POINT

434 WANAMAKER ROAD

COUPEVILLE, WA 98239

WI-CV-1RW27-0520

Date Sampled: May 20, 2020

Time Sampled: 9:10

Validated Results Provided: September 8, 2020

Below are the **validated** test results for your drinking water sampled on May 20, 2020. These results indicate that your drinking water is below the U.S. Environmental Protection Agency (EPA)'s lifetime health advisory for Perfluorooctane Sulfonate (PFOS) and/or Perfluorooctanoic acid (PFOA). Based upon the completion of data validation, no results or qualifier flags have changed for the test results listed below.

The Navy's Environmental Restoration Program analyzed for eighteen per- and polyfluoroalkyl substances (PFAS) as part of this drinking water investigation; however, PFOA and PFOS are the only PFAS for which EPA has established a lifetime health advisory. The Navy provides bottled water when the sample results exceed the EPA's lifetime health advisory.

If the EPA or the State of Washington Department of Ecology sets health advisories for other PFAS compounds in the future, then the Navy will evaluate necessary actions to take based on the health advisories.

Results of Laboratory Analytical Tests for PFAS with EPA Health Advisory Levels

| Chemical Name | May 2020 | Health Advisory (ppt) |
|---|--------------|-----------------------|
| | Result (ppt) | |
| Perfluorooctane Sulfonate (PFOS) | ND | 70 |
| Perfluorooctanoic acid (PFOA) | ND | 70 |
| PFOS and PFOA (cumulative) ¹ | ND | 70 |

¹ Only detected values of PFOS and PFOA are summed.

ND – Analyte not detected in the sample

ppt – parts per trillion

Results for other PFAS where no EPA Health Advisory Levels have been established

| Chemical Name | May 2020 | Health Advisory (ppt) |
|--|--------------|-----------------------|
| | Result (ppt) | |
| Perfluorobutane sulfonate (PFBS) | ND | Not applicable |
| Perfluorohexanoic acid (PFHxA) | ND | Not applicable |
| Perfluoroheptanoic acid (PFHpA) | ND | Not applicable |
| Perfluorohexane sulfonate (PFHxS) | ND | Not applicable |
| Perfluorononanoic acid (PFNA) | ND | Not applicable |
| Perfluoro-n-decanoic acid (PFDA) | ND | Not applicable |
| N-Ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA) | ND | Not applicable |
| N-Methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA) | ND | Not applicable |
| Perfluoro-n-undecanoic acid (PFUnA) | ND | Not applicable |
| Perfluoro-n-dodecanoic acid (PFDoA) | ND | Not applicable |
| Perfluoro-n-tridecanoic acid (PFTrDA) | ND | Not applicable |

| Chemical Name | May 2020 | Health Advisory (ppt) |
|--|--------------|-----------------------|
| | Result (ppt) | |
| Perfluoro-n-tetradecanoic acid (PFTeDA) | ND | Not applicable |
| Hexafluoropropylene oxide dimer acid (HFPO-DA) | ND | Not applicable |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | ND | Not applicable |
| 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) | ND | Not applicable |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS) | ND | Not applicable |

ND – Analyte not detected in the sample

ppt – parts per trillion

Sample ID: WI-CV-1RW27-0520

EPA Method 537.1

| Client Data | | Matrix: | | Laboratory Data | |
|-------------|----------------|----------------|--|-----------------|-----------------|
| Name: | CH2M Hill | Drinking Water | | Lab Sample: | 2001113-01 |
| Project: | 9000NV73 | Drinking Water | | Date Received: | 22-May-20 10:00 |
| Location: | Drinking Water | | | Column: | BEH C18 |

| Analyte | CAS Number | Conc. (ng/L) | DL | LOD | LOQ | Qualifiers | Batch | Extracted | Samp Size | Analyzed | Dilution |
|--------------|-------------|--------------|-------|------|------|------------|---------|-----------|-----------|-----------------|----------|
| PFBS | 375-73-5 | ND | 0.773 | 1.54 | 2.06 | | B0E0195 | 28-May-20 | 0.243 L | 02-Jun-20 04:17 | 1 |
| PFHxA | 307-24-4 | ND | 0.773 | 1.54 | 2.06 | | B0E0195 | 28-May-20 | 0.243 L | 02-Jun-20 04:17 | 1 |
| HFPO-DA | 13252-13-6 | ND | 1.03 | 2.06 | 2.32 | | B0E0195 | 28-May-20 | 0.243 L | 02-Jun-20 04:17 | 1 |
| PFHpA | 375-85-9 | ND | 0.773 | 1.54 | 2.06 | | B0E0195 | 28-May-20 | 0.243 L | 02-Jun-20 04:17 | 1 |
| ADONA | 919005-14-4 | ND | 0.773 | 1.54 | 2.06 | | B0E0195 | 28-May-20 | 0.243 L | 02-Jun-20 04:17 | 1 |
| PFHxS | 355-46-4 | ND | 0.773 | 1.54 | 2.06 | | B0E0195 | 28-May-20 | 0.243 L | 02-Jun-20 04:17 | 1 |
| PFOA | 335-67-1 | ND | 0.773 | 1.54 | 2.06 | | B0E0195 | 28-May-20 | 0.243 L | 02-Jun-20 04:17 | 1 |
| PFNA | 375-95-1 | ND | 0.773 | 1.54 | 2.06 | | B0E0195 | 28-May-20 | 0.243 L | 02-Jun-20 04:17 | 1 |
| PFOS | 1763-23-1 | ND | 0.773 | 1.54 | 2.06 | | B0E0195 | 28-May-20 | 0.243 L | 02-Jun-20 04:17 | 1 |
| 9Cl-PF3ONS | 756426-58-1 | ND | 0.773 | 1.54 | 2.06 | | B0E0195 | 28-May-20 | 0.243 L | 02-Jun-20 04:17 | 1 |
| PFDA | 335-76-2 | ND | 0.773 | 1.54 | 2.06 | | B0E0195 | 28-May-20 | 0.243 L | 02-Jun-20 04:17 | 1 |
| MeFOSAA | 2355-31-9 | ND | 0.773 | 1.54 | 2.06 | | B0E0195 | 28-May-20 | 0.243 L | 02-Jun-20 04:17 | 1 |
| EfFOSAA | 2991-50-6 | ND | 0.773 | 1.54 | 2.06 | | B0E0195 | 28-May-20 | 0.243 L | 02-Jun-20 04:17 | 1 |
| PFUnA | 2058-94-8 | ND | 0.773 | 1.54 | 2.06 | | B0E0195 | 28-May-20 | 0.243 L | 02-Jun-20 04:17 | 1 |
| PFDOA | 307-55-1 | ND | 0.773 | 1.54 | 2.06 | | B0E0195 | 28-May-20 | 0.243 L | 02-Jun-20 04:17 | 1 |
| PFTDA | 72629-94-8 | ND | 0.773 | 1.54 | 2.06 | | B0E0195 | 28-May-20 | 0.243 L | 02-Jun-20 04:17 | 1 |
| 11Cl-PF3OUds | 763051-92-9 | ND | 1.03 | 2.06 | 2.32 | | B0E0195 | 28-May-20 | 0.243 L | 02-Jun-20 04:17 | 1 |
| PFTdA | 376-06-7 | ND | 0.773 | 1.54 | 2.06 | | B0E0195 | 28-May-20 | 0.243 L | 02-Jun-20 04:17 | 1 |

LOD - Limit of Detection
LOQ - Limit of quantitation
Results reported to the DL.

When reported, PFHxS, PFnOA, PFOS, MeFOSAA and EfFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

mw 7/1/20

1ng/L = 1 ppt
nanogram(s)
part(s) per
per liter trillion

The detection limit (DL) is the lowest level at which the laboratory can reliably "see" that this compound is present.
The limit of detection (LOD) is the lowest level at which the laboratory can reliably "see" this compound is **not** present.
The limit of quantitation (LOQ) is the lowest level at which the laboratory can reliably measure this compound with a known degree of confidence and accuracy.

This section contains quality control information used by the data validator.

Sample ID: WF-RW02-0317

Client Data

Name: [REDACTED]
Project: [REDACTED]
Date Collected: [REDACTED]
Location: WF-RW02

Sample Data

Matrix: Drinking Water
Sample Size: 0.289 L

Laboratory Data

Lab Sample: [REDACTED] Date Received: 29-Mar-2017 9:21
QC Batch: B7C0165 Date Extracted: 30-Mar-2017 7:50
Date Analyzed: 04-Apr-17 15:37 Column: BEH C18

EPA Method 537

| Analyte | Conc. (ng/L) |
|---------|--------------|
| PFBS | ND |
| PFOA | 6.53 |
| PFOs | ND |

| DL | LOD | LOQ | Qualifiers |
|------|------|------|------------|
| 3.02 | 8.65 | 17.3 | |
| 3.93 | 8.65 | 17.3 | J |
| 2.64 | 8.65 | 17.3 | |

| Labeled Standard | %R | LCL-UCL | Qualifiers |
|------------------|-----|----------|------------|
| SUR 13C2-PFHXA | 103 | 70 - 130 | |
| SUR 13C2-PFDA | 117 | 70 - 130 | |

DL - Detection limit
RL - Reporting limit

LCL-UCL - Lower control limit - upper control limit
Results reported to DL
When reported, PFBS, PFHxS, PFOA and PFOs include both linear and branched isomers
Only the linear isomer is reported for all other analytes.

The result for PFBS:
PFBS was not detected in the sample.
This is reported as "ND" (Non-Detect).

The result for PFOA:
PFOA was detected in the sample at 6.53 ng/L (6.53 ppt).
The "J" qualifier means that the PFOA was detected but the amount detected is estimated.

The result for PFOs:
PFOs was not detected in the sample.
This is reported as "ND" (Non-Detect).

The result for PFOs:
PFOs was not detected in the sample.
This is reported as "ND" (Non-Detect).

This column identifies the data qualifiers that apply to a given result. Possible laboratory qualifiers are:
"J" (Estimated Value) - indicates the value reported for the analyte is below the LOQ and was detected. The value reported is considered estimated.
"B" (Blank) - this compound was also detected in the method blank.
"D" (Diluted Sample) - sample result was taken from a diluted sample.

* There is not a health advisory level for PFBS; therefore, no action is currently being taken based on this result. This chemical has health effects information that can be used to evaluate potential impact under the Navy's Environmental Restoration Program.

