

Town of Coupeville and Ft. Casey Treatment Plant
434 Wanamaker Rd, Coupeville, WA 98239; Well 108
Sample ID: WI-CV-1RW23-0918
Date Collected: September 19, 2018
Time Collected: 08:53
Preliminary Results Provided December 26, 2018

Below are the **preliminary** test results for your drinking water sampled on September 19, 2018. These results indicate that one of your wells is above the U.S. Environmental Protection Agency (EPA)'s lifetime health advisory (LHA) for Perfluorooctane Sulfonate (PFOS) and/or Perfluorooctanoic acid (PFOA). The preliminary results for this well (Well 108) are above the EPA's LHA for PFOS and/or PFOA for the first time since the Navy's drinking water sampling program began. The other source wells and the blended distribution water remain below the EPA's LHA. Once the Navy receives the final, validated results we will notify you and provide you with a copy of the validated results.

The Navy's Environmental Restoration Program analyzed for fourteen 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 LHA. The Navy provides bottled water when the sample results exceed the EPA's LHA.

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	September 2018	Health Advisory (ppt)
	Result (ppt)	
Perfluorooctane Sulfonate (PFOS)	ND	70
Perfluorooctanoic acid (PFOA)	70.9	70
PFOS and PFOA (cumulative) ¹	70.9	70

¹ Only detected values of PFOS and PFOA are summed.

J - Analyte present, but result is estimated

ND- Analyte not detected in the sample

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

Chemical Name	September 2018	Health Advisory (ppt)
	Result (ppt)	
Perfluorobutane sulfonate (PFBS)	17.6	Not applicable
Perfluorohexanoic acid (PFHxA)	40.9	Not applicable
Perfluoroheptanoic acid (PFHpA)	11.9	Not applicable
Perfluorohexane sulfonate (PFHxS)	67.5	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

Sample ID: WI-CV-1RW23-0918

EPA Method 537

Client Data		Laboratory Data		Matrix:		Date Collected:		Date Received:		Column:	
Name:	CH2M Hill	Lab Sample:	1803110-05	Matrix:	Drinking Water	Date Collected:	19-Sep-18 08:53	Lab Sample:	1803110-05	Column:	BEH C18
Project:	NASWI Off-Base DW Sampling	Date Received:	21-Sep-18 09:09	Date Collected:	19-Sep-18 08:53	Date Received:	21-Sep-18 09:09	Date Received:	21-Sep-18 09:09	Column:	BEH C18
Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	375-73-5	17.6	3.07	5.04	10.1		B810166	25-Sep-18	0.248 L	26-Sep-18 21:50	1
PFHxA	307-24-4	40.9	3.07	5.04	10.1		B810166	25-Sep-18	0.248 L	26-Sep-18 21:50	1
PFHpA	375-85-9	11.9	3.07	5.04	10.1		B810166	25-Sep-18	0.248 L	26-Sep-18 21:50	1
PFHxS	355-46-4	67.5	3.07	5.04	10.1		B810166	25-Sep-18	0.248 L	26-Sep-18 21:50	1
PFOA	335-67-1	70.9	3.07	5.04	10.1		B810166	25-Sep-18	0.248 L	26-Sep-18 21:50	1
PFNA	375-95-1	ND	3.07	5.04	10.1		B810166	25-Sep-18	0.248 L	26-Sep-18 21:50	1
PFOS	1763-23-1	ND	3.07	5.04	10.1		B810166	25-Sep-18	0.248 L	26-Sep-18 21:50	1
PFDA	335-76-2	ND	3.07	5.04	10.1		B810166	25-Sep-18	0.248 L	26-Sep-18 21:50	1
MeFOSAA	2355-31-9	ND	3.07	5.04	10.1		B810166	25-Sep-18	0.248 L	26-Sep-18 21:50	1
EiFOSAA	2991-50-6	ND	3.07	5.04	10.1		B810166	25-Sep-18	0.248 L	26-Sep-18 21:50	1
PFUnA	2058-94-8	ND	3.07	5.04	10.1		B810166	25-Sep-18	0.248 L	26-Sep-18 21:50	1
PFDoA	307-55-1	ND	3.07	5.04	10.1		B810166	25-Sep-18	0.248 L	26-Sep-18 21:50	1
PFTtDA	72629-94-8	ND	3.07	5.04	10.1		B810166	25-Sep-18	0.248 L	26-Sep-18 21:50	1
PFTeDA	376-06-7	ND	3.07	5.04	10.1		B810166	25-Sep-18	0.248 L	26-Sep-18 21:50	1
Labeled Standards	Type	% Recovery	DL	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C2-PFHxA	SURR	105		70 - 130		B810166	25-Sep-18	0.248 L	26-Sep-18 21:50	1	
13C2-PFDA	SURR	103		70 - 130		B810166	25-Sep-18	0.248 L	26-Sep-18 21:50	1	
d5-EiFOSAA	SURR	95.5		70 - 130		B810166	25-Sep-18	0.248 L	26-Sep-18 21:50	1	

DL - Detection Limit
 LOD - Limit of Detection
 LOQ - Limit of quantitation
 Results reported to the DL.
 When reported, PFHxS, PFOA, PFOS, MeFOSAA and EiFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

RECEIVED
 JAN 23 2019
 TOWN OF COUPEVILLE

Town of Coupeville and Ft. Casey Treatment Plant
 434 Wanamaker Rd, Coupeville, WA 98239; Well 487
 Sample ID: WI-CV-1RW24-0918
 Date Collected: September 19, 2018
 Time Collected: 08:35
 Preliminary Results Provided December 26, 2018

RECEIVED

JAN 23 2019

TOWN OF COUPEVILLE

Below are the preliminary test results for your drinking water sampled on September 19, 2018. These results indicate that your drinking water is below the U.S. Environmental Protection Agency (EPA)'s lifetime health advisory (LHA) for Perfluorooctane Sulfonate (PFOS) and/or Perfluorooctanoic acid (PFOA). Once the Navy receives the final, validated results we will notify you and provide you with a copy of the validated results.

The Navy's Environmental Restoration Program analyzed for fourteen 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 LHA. The Navy provides bottled water when the sample results exceed the EPA's LHA.

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	September 2018	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

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

Chemical Name	September 2018	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

ND- Analyte not detected in the sample

Sample ID: WI-CV-1RW24-0918

EPA Method 537

Client Data		Laboratory Data	
Name: CH2M Hill	Matrix: Drinking Water	Lab Sample: 1803110-01	Column: BEH C18
Project: NASWI Off-Base DW Sampling	Date Collected: 19-Sep-18 08:35	Date Received: 21-Sep-18 09:09	

Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	375-73-5	ND	3.05	5.02	10.0		B810166	25-Sep-18	0.249 L	26-Sep-18 20:58	1
PFHxA	307-24-4	ND	3.05	5.02	10.0		B810166	25-Sep-18	0.249 L	26-Sep-18 20:58	1
PFHpA	375-85-9	ND	3.05	5.02	10.0		B810166	25-Sep-18	0.249 L	26-Sep-18 20:58	1
PFHxS	355-46-4	ND	3.05	5.02	10.0		B810166	25-Sep-18	0.249 L	26-Sep-18 20:58	1
PFOA	335-67-1	ND	3.05	5.02	10.0		B810166	25-Sep-18	0.249 L	26-Sep-18 20:58	1
PFNA	375-95-1	ND	3.05	5.02	10.0		B810166	25-Sep-18	0.249 L	26-Sep-18 20:58	1
PFOS	1763-23-1	ND	3.05	5.02	10.0		B810166	25-Sep-18	0.249 L	26-Sep-18 20:58	1
PFDA	335-76-2	ND	3.05	5.02	10.0		B810166	25-Sep-18	0.249 L	26-Sep-18 20:58	1
MeFOSAA	2355-31-9	ND	3.05	5.02	10.0		B810166	25-Sep-18	0.249 L	26-Sep-18 20:58	1
EiFOSAA	2991-50-6	ND	3.05	5.02	10.0		B810166	25-Sep-18	0.249 L	26-Sep-18 20:58	1
PFUnA	2058-94-8	ND	3.05	5.02	10.0		B810166	25-Sep-18	0.249 L	26-Sep-18 20:58	1
PFDoA	307-55-1	ND	3.05	5.02	10.0		B810166	25-Sep-18	0.249 L	26-Sep-18 20:58	1
PFTtDA	72629-94-8	ND	3.05	5.02	10.0		B810166	25-Sep-18	0.249 L	26-Sep-18 20:58	1
PFTeDA	376-06-7	ND	3.05	5.02	10.0		B810166	25-Sep-18	0.249 L	26-Sep-18 20:58	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	SURR	98.9	70 - 130		B810166	25-Sep-18	0.249 L	26-Sep-18 20:58	1
13C2-PFDA	SURR	88.7	70 - 130		B810166	25-Sep-18	0.249 L	26-Sep-18 20:58	1
d5-EiFOSAA	SURR	98.2	70 - 130		B810166	25-Sep-18	0.249 L	26-Sep-18 20:58	1

DL - Detection Limit
 LOD - Limit of Detection
 LOQ - Limit of quantitation
 Results reported to the DL.
 When reported, PFHxS, PFOA, PFOS, MeFOSAA and EiFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

RECEIVED
 JAN 23 2019
 TOWN OF COUPEVILLE

Town of Coupeville and Ft. Casey Treatment Plant
 434 Wanamaker Rd, Coupeville, WA 98239; Well 106
 Sample ID: WI-CV-1RW25-0918
 Date Collected: September 19, 2018
 Time Collected: 08:13
 Preliminary Results Provided December 26, 2018

RECEIVED

JAN 23 2019

TOWN OF COUPEVILLE

Below are the preliminary test results for your drinking water sampled on September 19, 2018. These results indicate that your drinking water is below the U.S. Environmental Protection Agency (EPA)'s lifetime health advisory (LHA) for Perfluorooctane Sulfonate (PFOS) and/or Perfluorooctanoic acid (PFOA). Once the Navy receives the final, validated results we will notify you and provide you with a copy of the validated results.

The Navy's Environmental Restoration Program analyzed for fourteen 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 LHA. The Navy provides bottled water when the sample results exceed the EPA's LHA.

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	September 2018	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

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

Chemical Name	September 2018	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 (PFTTrDA)	ND	Not applicable
Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	Not applicable

ND- Analyte not detected in the sample

Sample ID: WI-CV-1RW25-0918

EPA Method 537

Client Data		Laboratory Data									
Name:	CH2M Hill	Lab Sample:	1803109-15	Column:	BEH C18						
Project:	NASWI Off-Base DW Sampling	Date Collected:	19-Sep-18 08:13	Date Received:	21-Sep-18 09:09						
Matrix:	Drinking Water										
Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	375-73-5	ND	2.94	4.84	9.68		B810167	25-Sep-18	0.258 L	27-Sep-18 16:27	1
PFHxA	307-24-4	ND	2.94	4.84	9.68		B810167	25-Sep-18	0.258 L	27-Sep-18 16:27	1
PFHpA	375-85-9	ND	2.94	4.84	9.68		B810167	25-Sep-18	0.258 L	27-Sep-18 16:27	1
PFHxS	355-46-4	ND	2.94	4.84	9.68		B810167	25-Sep-18	0.258 L	27-Sep-18 16:27	1
PFOA	335-67-1	ND	2.94	4.84	9.68		B810167	25-Sep-18	0.258 L	27-Sep-18 16:27	1
PFNA	375-95-1	ND	2.94	4.84	9.68		B810167	25-Sep-18	0.258 L	27-Sep-18 16:27	1
PFOS	1763-23-1	ND	2.94	4.84	9.68		B810167	25-Sep-18	0.258 L	27-Sep-18 16:27	1
PFDA	335-76-2	ND	2.94	4.84	9.68		B810167	25-Sep-18	0.258 L	27-Sep-18 16:27	1
MeFOSAA	2355-31-9	ND	2.94	4.84	9.68		B810167	25-Sep-18	0.258 L	27-Sep-18 16:27	1
EtFOSAA	2991-50-6	ND	2.94	4.84	9.68		B810167	25-Sep-18	0.258 L	27-Sep-18 16:27	1
PFUnA	2058-94-8	ND	2.94	4.84	9.68		B810167	25-Sep-18	0.258 L	27-Sep-18 16:27	1
PFDoA	307-55-1	ND	2.94	4.84	9.68		B810167	25-Sep-18	0.258 L	27-Sep-18 16:27	1
PFTeDA	72629-94-8	ND	2.94	4.84	9.68		B810167	25-Sep-18	0.258 L	27-Sep-18 16:27	1
PFTeDA	376-06-7	ND	2.94	4.84	9.68		B810167	25-Sep-18	0.258 L	27-Sep-18 16:27	1
Labeled Standards	Type	% Recovery	Limits			Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	SURR	100	70 - 130				B810167	25-Sep-18	0.258 L	27-Sep-18 16:27	1
13C2-PFDA	SURR	96.2	70 - 130				B810167	25-Sep-18	0.258 L	27-Sep-18 16:27	1
d5-EtFOSAA	SURR	80.1	70 - 130				B810167	25-Sep-18	0.258 L	27-Sep-18 16:27	1

DL - Detection Limit
LOD - Limit of Detection
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.

Results reported to the DL.

RECEIVED
JAN 23 2019
TOWN OF COQUILLE

Town of Coupeville and Ft. Casey Treatment Plant
 434 Wanamaker Rd, Coupeville, WA 98239; Well 190
 Sample ID: WI-CV-1RW26-0918
 Date Collected: September 19, 2018
 Time Collected: 08:22
 Preliminary Results Provided December 26, 2018

RECEIVED

JAN 23 2019

TOWN OF COUPEVILLE

Below are the **preliminary** test results for your drinking water sampled on September 19, 2018. These results indicate that your drinking water is below the U.S. Environmental Protection Agency (EPA)'s lifetime health advisory (LHA) for Perfluorooctane Sulfonate (PFOS) and/or Perfluorooctanoic acid (PFOA). Once the Navy receives the final, validated results we will notify you and provide you with a copy of the validated results.

The Navy's Environmental Restoration Program analyzed for fourteen 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 LHA. The Navy provides bottled water when the sample results exceed the EPA's LHA.

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	September 2018	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

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

Chemical Name	September 2018	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 (PFTTrDA)	ND	Not applicable
Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	Not applicable

ND- Analyte not detected in the sample

Sample ID: WI-CV-1RW26-0918

EPA Method 537

Client Data		Laboratory Data									
Name: CH2M Hill	Matrix: Drinking Water	Lab Sample: 1803109-17	Column: BEH C18								
Project: NASWI Off-Base DW Sampling	Date Collected: 19-Sep-18 08:22	Date Received: 21-Sep-18 09:09									
Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	375-73-5	ND	3.00	4.92	9.86		B810167	25-Sep-18	0.254 L	27-Sep-18 17:19	1
PFHxA	307-24-4	ND	3.00	4.92	9.86		B810167	25-Sep-18	0.254 L	27-Sep-18 17:19	1
PFHpA	375-85-9	ND	3.00	4.92	9.86		B810167	25-Sep-18	0.254 L	27-Sep-18 17:19	1
PFHxS	355-46-4	ND	3.00	4.92	9.86		B810167	25-Sep-18	0.254 L	27-Sep-18 17:19	1
PFOA	335-67-1	ND	3.00	4.92	9.86		B810167	25-Sep-18	0.254 L	27-Sep-18 17:19	1
PFNA	375-95-1	ND	3.00	4.92	9.86		B810167	25-Sep-18	0.254 L	27-Sep-18 17:19	1
PFOS	1763-23-1	ND	3.00	4.92	9.86		B810167	25-Sep-18	0.254 L	27-Sep-18 17:19	1
PFDA	335-76-2	ND	3.00	4.92	9.86		B810167	25-Sep-18	0.254 L	27-Sep-18 17:19	1
MeFOSAA	2355-31-9	ND	3.00	4.92	9.86		B810167	25-Sep-18	0.254 L	27-Sep-18 17:19	1
EtFOSAA	2991-50-6	ND	3.00	4.92	9.86		B810167	25-Sep-18	0.254 L	27-Sep-18 17:19	1
PFUnA	2058-94-8	ND	3.00	4.92	9.86		B810167	25-Sep-18	0.254 L	27-Sep-18 17:19	1
PFDoA	307-55-1	ND	3.00	4.92	9.86		B810167	25-Sep-18	0.254 L	27-Sep-18 17:19	1
PFTrDA	72629-94-8	ND	3.00	4.92	9.86		B810167	25-Sep-18	0.254 L	27-Sep-18 17:19	1
PFTeDA	376-06-7	ND	3.00	4.92	9.86		B810167	25-Sep-18	0.254 L	27-Sep-18 17:19	1
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution		
13C2-PFHxA	SURR	109	70 - 130		B810167	25-Sep-18	0.254 L	27-Sep-18 17:19	1		
13C2-PFDA	SURR	99.2	70 - 130		B810167	25-Sep-18	0.254 L	27-Sep-18 17:19	1		
d5-EtFOSAA	SURR	87.1	70 - 130		B810167	25-Sep-18	0.254 L	27-Sep-18 17:19	1		

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

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

RECEIVED
 JAN 23 2019
 TOWN OF CGUPEVILLE

Town of Coupeville and Ft. Casey Treatment Plant
 434 Wanamaker Rd, Coupeville, WA 98239;
 Post treatment, distribution point
 Sample ID: WI-CV-1RW27-0918
 Date Collected: September 19, 2018
 Time Collected: 08:44
 Preliminary Results Provided December 26, 2018

RECEIVED
 JAN 23 2019
 TOWN OF COUPEVILLE

Below are the preliminary test results for your drinking water sampled on September 19, 2018. These results indicate that your drinking water is below the U.S. Environmental Protection Agency (EPA)'s lifetime health advisory (LHA) for Perfluorooctane Sulfonate (PFOS) and/or Perfluorooctanoic acid (PFOA). Once the Navy receives the final, validated results we will notify you and provide you with a copy of the validated results.

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

Chemical Name	September 2018	Health Advisory (ppt)
	Result (ppt)	
Perfluorooctane Sulfonate (PFOS)	ND	70
Perfluorooctanoic acid (PFOA)	29.8	70
PFOS and PFOA (cumulative) ¹	29.8	70

¹ Only detected values of PFOS and PFOA are summed.

ND- Analyte not detected in the sample

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

Chemical Name	September 2018	Health Advisory (ppt)
	Result (ppt)	
Perfluorobutane sulfonate (PFBS)	7.38 J	Not applicable
Perfluorohexanoic acid (PFHxA)	19.7	Not applicable
Perfluoroheptanoic acid (PFHpA)	5.35 J	Not applicable
Perfluorohexane sulfonate (PFHxS)	32.2	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

J - Analyte present, but result is estimated

ND- Analyte not detected in the sample

Sample ID: WI-CV-1RW27-0918

EPA Method 537

Client Data		Laboratory Data									
Name:	CH2M Hill	Lab Sample:	1803110-03								
Project:	NASWI Off-Base DW Sampling	Date Received:	21-Sep-18 09:09								
Matrix:	Drinking Water	Column:	BEH C18								
Date Collected:	19-Sep-18 08:44										
Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	375-73-5	7.38	3.01	4.94	9.89	J	B810166	25-Sep-18	0.253 L	26-Sep-18 21:24	1
PFHxA	307-24-4	19.7	3.01	4.94	9.89		B810166	25-Sep-18	0.253 L	26-Sep-18 21:24	1
PFHpA	375-85-9	5.35	3.01	4.94	9.89	J	B810166	25-Sep-18	0.253 L	26-Sep-18 21:24	1
PFHxS	355-46-4	32.2	3.01	4.94	9.89		B810166	25-Sep-18	0.253 L	26-Sep-18 21:24	1
PFOA	335-67-1	29.8	3.01	4.94	9.89		B810166	25-Sep-18	0.253 L	26-Sep-18 21:24	1
PFNA	375-95-1	ND	3.01	4.94	9.89		B810166	25-Sep-18	0.253 L	26-Sep-18 21:24	1
PFOS	1763-23-1	ND	3.01	4.94	9.89		B810166	25-Sep-18	0.253 L	26-Sep-18 21:24	1
PFDA	335-76-2	ND	3.01	4.94	9.89		B810166	25-Sep-18	0.253 L	26-Sep-18 21:24	1
MeFOSAA	2355-31-9	ND	3.01	4.94	9.89		B810166	25-Sep-18	0.253 L	26-Sep-18 21:24	1
EtFOSAA	2991-50-6	ND	3.01	4.94	9.89		B810166	25-Sep-18	0.253 L	26-Sep-18 21:24	1
PFUnA	2058-94-8	ND	3.01	4.94	9.89		B810166	25-Sep-18	0.253 L	26-Sep-18 21:24	1
PFDoA	307-55-1	ND	3.01	4.94	9.89		B810166	25-Sep-18	0.253 L	26-Sep-18 21:24	1
PFTrDA	72629-94-8	ND	3.01	4.94	9.89		B810166	25-Sep-18	0.253 L	26-Sep-18 21:24	1
PFTeDA	376-06-7	ND	3.01	4.94	9.89		B810166	25-Sep-18	0.253 L	26-Sep-18 21:24	1
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution		
13C2-PFHxA	SURR	101	70 - 130		B810166	25-Sep-18	0.253 L	26-Sep-18 21:24	1		
13C2-PFDA	SURR	101	70 - 130		B810166	25-Sep-18	0.253 L	26-Sep-18 21:24	1		
d5-EtFOSAA	SURR	75.3	70 - 130		B810166	25-Sep-18	0.253 L	26-Sep-18 21:24	1		

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

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

1 ng/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		EPA Method 537	
Client Data		Laboratory Data	
Name:	[REDACTED]	Lab Sample:	[REDACTED]
Project:	[REDACTED]	QC Batch:	B7C0165
Date Collected:	[REDACTED]	Date Analyzed:	04-Apr-17 15:37 Column: BEH C18
Location:	WF-RW02	Date Received:	29-Mar-2017 9:21
		Date Extracted:	30-Mar-2017 7:50
Analyte	Conc. (ng/L)	Labeled Standard	%R
PFBS	ND	SUR 13C2-PFHxA	103
PFOA	6.53	SUR 13C2-PFDA	117
PFOS	ND		
		LCL-UCL	Qualifiers
			70 - 130
			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).

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.

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* 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.