DEPARTMENT OF THE NAVY
PORTSMOUTH NAVAL SHIPYARD
PORTSMOUTH, N. H. 03804-5000

IN REPLY REFER TO:

11018
Ser 100/«SER_»

«first» «last»
Parcel #«parcel»
«Owner Address_1»
«City_and_1»

SUBJECT: DRINKING WATER SAMPLING RESULTS IN THE VICINITY OF NAVAL SUPPORT ACTIVITY (NSA) CUTLER FIRE STATION (SAMPLE:«DW#»);(SAMPLE DATE:«DATE#»)

Dear Mr./Mrs. «first» «last»:

Thank you for recently allowing the Navy to sample the drinking water well that services «Owner Address_1», «City_and_1» for certain per- and polyfluoroalkyl substances (PFAS). The test results are provided in the enclosures to this letter. (Enclosure 1 – Validated Sample Results Table; Enclosure 2 – Laboratory Analytical Reports; Enclosure 3 – Explanation of Laboratory Analytical Reports).

The test results have been validated, and they confirm that concentrations of perfluorooctanoic acid (PFOA) and perfluorooctane sulfonate (PFOS) in your drinking water are below 70 parts per trillion (ppt), the 2016 U.S. Environmental Protection Agency (EPA) lifetime drinking water health advisory levels. The enclosures also provide the test results for other PFAS included in the drinking water test method (EPA Method 537.1) used for this investigation. The Navy is continuing its PFAS investigations of drinking water under the federal cleanup law and will keep you informed of developments.

In anticipation of EPA proposing a drinking water standard by the end of the year and to account for emerging science that shows potential health effects of PFOA and PFOS at levels lower than 70 ppt, the Navy is evaluating its efforts to address PFAS in drinking water and what actions we can take to be prepared to incorporate this drinking water standard.

The Navy continues to work in partnership with the Maine Department of Environmental Protection to fulfill our cleanup

responsibilities, operating within the law and authorities provided by the federal cleanup law, and clearly communicating and engaging with communities.

We are committed to keeping you informed on developments that may impact you and your neighbors. We will continue to update our public website to keep residents informed about the PFAS investigation as information, research, and regulation from federal, state or local agencies evolve. The link to the website is: https://www.navfac.navy.mil/Business-Lines/Environmental/Products-and-Services/Environmental-Restoration/Mid-Atlantic/Cutler-NCTAMS/PFAS-Sampling/.

Additional resources can be found at the Assistant Secretary of the Navy (Energy, Installations & Environmental), Department of Defense, and EPA PFAS websites. The links are provided below:

Department of the Navy
https://www.secnav.navy.mil/eie/pages/pfc-pfas.aspx

Department of Defense
https://www.acq.osd.mil/eie/eer/ecc/pfas/

EPA
https://www.epa.gov/pfas

If you have any health questions or concerns, I encourage you to contact your health care provider. If you have any further questions on the process and our next steps, please contact me at paul.r.young2@navy.mil or 757-341-0488.

We appreciate your continued understanding and cooperation as we work to ensure that human health and the environment are protected.

Sincerely,

Michael C. Oberdorf
Captain, U.S. Navy
Installation Commanding Officer

Enclosures:
1. Validated Test Results
2. Laboratory Results
3. Explanation of Laboratory Results

Enclosure 1
Validated Test Results

Name: _____
Address: _____
Sample ID: _____
Date Collected: _____
Time Collected: _____

Below are the validated test results confirming that perfluorooctanoic acid (PFOA) and perfluorooctane sulfonate (PFOS) in your drinking water are below 70 parts per trillion. These results indicate that no further action by the Navy is required for your property at this time.

Validated Test Results

Chemical Name	Result (ppt)	2016 Health Advisory (ppt)	2022 Interim Updated Health Advisory (ppt)	2022 Final Health Advisory (ppt)
Perfluorooctanoic acid (PFOA)		70	0.004	N/A
Perfluorooctane sulfonate (PFOS)		70	0.02	N/A
Total PFOA+PFOS (sum of detections of PFOA and PFOS)		70	N/A	N/A
Perfluorohexanoic acid (PFHxA)		N/A	N/A	N/A
Perfluoroheptanoic acid (PFHpA)		N/A	N/A	N/A
Perfluorononanoic acid (PFNA)		N/A	N/A	N/A
Perfluorodecanoic acid (PFDA)		N/A	N/A	N/A
Perfluoroundecanoic acid (PFUnA)		N/A	N/A	N/A
Perfluorododecanoic acid (PFDoA)		N/A	N/A	N/A
Perfluorotridecanoic acid (PFTrDA)		N/A	N/A	N/A
Perfluorotetradecanoic Acid (PFTeDA)		N/A	N/A	N/A
n-Methylperfluorooctanesulfonamido-acetic acid (MeFOSAA)		N/A	N/A	N/A
n-Ethylperfluoroctanesulfonamido-acetic acid (EtFOSAA)		N/A	N/A	N/A
Perfluorobutanesulfonic acid (PFBS)		N/A	N/A	2,000
Perfluorohexanesulfonic acid (PFHxS)		N/A	N/A	N/A
Hexafluoropropylene oxide dimer acid (HFPO-DA)		N/A	N/A	10
4,8-Dioxa-3H-perfluorononanoic acid (Adona)		N/A	N/A	N/A
11-Chloroeicosafluoro-3-oxaundecane- 1-sulfonic acid (11Cl-PF3OUdS)		N/A	N/A	N/A
9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)		N/A	N/A	N/A

ppt – parts per trillion (1 ppt = 1 ng/L [nanogram per liter])
J – The reported result is an estimated value.
N/A – Not available.
* Duplicate sample collected for quality control purposes; the higher value is reported.

Enclosure 2: Laboratory Report of Sample (DWXX)

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Project Client:
Project Name:
Project No.:

Client ID	NSAC-DWXX-20220916
Battelle ID	E6825-FS
Sample Type	SA
Collection Date	09/16/2022
Extraction Date	09/26/2022
Analysis Date	10/06/2022
Analytical Instrument	Sciex 5500 (AC) LC/MS/MS
% Moisture	NA
Matrix	DW
Sample Size	0.287
Size Unit-Basis	L

Analyte	CAS No.	Result (ng/L)	DL	LOD	LOQ
PFHxA	307-24-4	ND	0.711	1.52	2.18
PFHpA	375-85-9	ND	0.328	1.09	2.18
PFOA	335-67-1	ND	0.357	1.09	2.18
PFNA	375-95-1	ND	0.336	1.09	2.18
PFDA	335-76-2	ND	0.306	1.09	2.18
PFUnA	2058-94-8	ND	0.282	1.09	2.18
PFDoA	307-55-1	ND	0.469	1.09	2.18
PFTrDA	72629-94-8	ND	0.372	1.09	2.18
PFTeDA	376-06-7	ND	0.382	1.09	2.18
NMeFOSAA	2355-31-9	ND	0.472	1.09	2.18
NEtFOSAA	2991-50-6	ND	0.588	1.31	2.18
PFBS	375-73-5	ND	0.314	1.09	2.18
PFHxS	355-46-4	ND	0.403	1.09	2.18
PFOS	1763-23-1	ND	0.355	1.09	2.18
HFPO-DA	13252-13-6	ND	0.354	1.09	2.18
Adona	919005-14-4	ND	0.269	0.871	2.18
11Cl-PF3OUdS	763051-92-9	ND	0.314	1.09	2.18
9Cl-PF3ONS	756426-58-1	ND	0.403	1.09	2.18

Surrogate Recoveries (%)	Recovery
13C2-PFHxA	94
13C2-PFDA	89
d5-EtFOSAA	81
13C3-HFPO-DA	85

11/02/2022

Enclosure 3 (page 1 of 2): Explanation of Laboratory Results

You will notice that the data report comes with several laboratory descriptions that may not be familiar to you. The following definitions of those descriptions may assist you in understanding your sample results:

- **Analyte** – the chemical or substance of interest.

- **CAS No.** – (Chemical Abstracts Service Number) – a universal system to provide a unique, unmistakable identifier for chemical substances.

- **Result (ng/L)** - the amount of an analyte (chemical or substance of interest) determined to be present in the sample analyzed by the laboratory; the reporting units ng/L (nanograms per liter) is the same as ppt (parts per trillion)

- **Detection Limit (DL**) - The lowest analyte concentration that can confidently be distinguished from zero (or a blank) concentration.

- **Limit of Detection (LOD)** - The lowest analyte concentration that must be present in a sample to be confidently (i.e., consistently) detectable.

- **Limit of Quantitation (LOQ**) - The lowest concentration that produces a quantitative result within known and recorded precision and accuracy.

- **Non-Detect (ND**) - indicates the analyte was not detected.

- **Qualifiers (if needed)**
    - **"J" (Estimated Value)** - indicates the value reported for the analyte is above the DL but below the LOQ and was detected. The value reported is considered estimated.

Enclosure 3 (page 2 of 2): Explanation of Lab Results - Example of Lab Report with Definitions and Explanations

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The result for PFOA:
PFOA was not detected in the sample, represented as "ND".
The result for PFOS:
PFOS was detected in the sample at 0.13 J ng/L (0.13 J ppt).
The result for PFOA + PFOS:
PFOA + PFOS was detected in the sample at 0.13 ng/L (0.13 ppt).

Analyte was not detected in this sample.
Represented as "ND" (Non-Detect).

Project Client:
Project Name:
Project No.:

Client ID

Battelle ID	I3392-FS
Sample Type	SA
Collection Date	05/24/2019
Extraction Date	05/28/2019
Analysis Date	05/30/2019
Analytical Instrument	Sciex 5500 LC/MS/MS
% Moisture	NA
Matrix	DW
Sample Size	0.260
Size Unit-Basis	L

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

Analyte	CAS No.	Result (ng/L)	DV QUALIFIER	DL	LOD	LOQ
PFHxA	307-24-4	1.2		0.22	0.48	2.40
PFHpA	375-85-9	ND		0.22	0.48	2.40
PFOA	335-67-1	ND		0.19	0.48	2.40
PFNA	375-95-1	0.21	J	0.12	0.38	2.40
PFDA	335-76-2	ND		0.11	0.38	2.40
PFUnA	2058-94-8	ND		0.10	0.38	2.40
PFDoA	307-55-1	ND		0.13	0.48	2.40
PFTrDA	72629-94-8	ND		0.10	0.38	2.40
PFTeDA	376-06-7	ND		0.21	0.48	2.40
NMeFOSAA	2355-31-9	ND		0.19	0.48	2.40
NEtFOSAA	2991-50-6	ND		0.16	0.48	2.40
PFBS	375-73-5	20		0.12	0.38	2.40
PFHxS	355-46-4	0.56	J	0.12	0.38	2.40
PFOS	1763-23-1	0.13	J	0.14	0.48	2.40
HFPO-DA	13252-13-6	ND		0.09	0.38	2.40
Adona	919005-14-4	ND		0.12	0.38	2.40
11Cl-PF3OUdS	763051-92-9	ND		0.10	0.38	2.40
9Cl-PF3ONS	756426-58-1	ND		0.12	0.38	2.40

Surrogate Recoveries (%)	Recovery
13C2-PFHxA	129
13C2-PFDA	113
d5-EtFOSAA	95
13C3-HFPO-DA	116

Data Validator's Signature
6/10/2019

The detection limit (**DL**) is the lowest analyte concentration that can confidently be distinguished from zero (or a blank) concentration.
The limit of detection (**LOD**) is the lowest analyte concentration that must be present in a sample to be confidently (i.e.,consistently) detectable.
The limit of quantitation (**LOQ**) is the lowest concentration that produces a quantitative result within known and recorded precision and accuracy.

This is a data qualifier for this result. Possible qualifiers are:
"J" (Estimated Value) - Indicates the value reported for the analyte is greater than the DL but below the LOQ and was detected. The value reported is considered estimated.
"B" (Blank) - Indicates the compound also was detected in the method blank.