



DEPARTMENT OF THE NAVY
NAVAL WEAPONS STATION EARLE
201 HIGHWAY 34
COLTS NECK NJ 07722-5001

IN REPLY REFER TO

5090

Ser 00/«Ser_»

20 June 23

«Owner_Name»
Parcel # «PIN»
«Owner_Address»
«Owner_City_State_Zip»

Dear Property Owner:

SUBJECT: DRINKING WATER SAMPLING RESULTS

Thank you for recently allowing the U.S. Navy to sample your drinking water well for specific per- and polyfluoroalkyl substances (PFAS). I am writing today regarding the results of your property's drinking water. The results are provided in the enclosures to this letter.

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

No further action by the U.S. Navy is needed at your property at this time based on your sampling results. The New Jersey Department of Environmental Protection (NJDEP) has a program to provide alternate water for certain PFAS at levels below 70 ppt referenced in enclosure (1). As part of our efforts to protect your personal information, the U.S. Navy has not shared your results with NJDEP or other partnering agencies. Please contact Kristine Iazzetta of NJDEP at (609) 777-0376 for more information about the program.

On March 14, 2023, the EPA proposed a draft regulatory drinking water standard for certain PFAS, including PFOA and PFOS. In response, the Department of Defense (DoD) has issued the following statement: "DoD respects and values the public comment process on this proposed nationwide drinking water rule and looks forward to the clarity that a final regulatory drinking water standard for PFAS will provide. In anticipation of the final standard that EPA expects to publish by the end of 2023, the DoD is assessing what actions DoD can take to be prepared to incorporate EPA's final regulatory standard into our current cleanup process, such as reviewing our existing data and conducting additional sampling where necessary. In addition, DoD will incorporate nationwide PFAS cleanup guidance, issued by EPA and applicable to all owners and operators under the federal cleanup law, as to when to provide alternate water when PFAS are present."

The U.S. Navy continues to work in partnership with EPA Region 2, the NJDEP, and the Agency for Toxic Substances and Disease Registry to fulfill its cleanup responsibilities, operating within the law and authorities provided by the federal cleanup law, and clearly communicating and engaging with communities.

The U.S. Navy is committed to keeping you informed on developments that may impact you and your neighbors, and will continually update the website provided below to keep the public informed.

www.navfac.navy.mil/nwsearlepfas

Additional resources can be found at the U.S. Navy and EPA PFAS websites. Both links are provided below:

U.S. Navy
<https://www.secnav.navy.mil/eie/pages/pfc-pfas.aspx>

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 the U.S. Navy's next steps, please contact Mr. William Addison, Public Affairs Officer for Naval Weapons Station Earle at colt.wpnstaearlepaonavy.mil or (732) 866-2171.

The U.S. Navy appreciates your continued understanding and cooperation as we work to ensure that human health and the environment are protected.

Sincerely,

K. D. SMITH
Captain, U.S. Navy
Commanding Officer

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

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), both individually and combined, 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.

The New Jersey Department of Environmental Protection (NJDEP) has a program to provide alternate water for certain PFAS at levels below 70 ppt and above the NJDEP levels. The current levels¹ are:

- Perfluorooctanoic acid (PFOA) – 14 ppt
- Perfluorooctane sulfonate (PFOS) – 13 ppt
- Perfluorononanoic acid (PFNA) – 13 ppt

As part of our efforts to protect your personal information, the Navy has not shared your results with NJDEP or other partnering agencies. Please contact Kristine Iazzetta of NJDEP at 609-777-0376 for more information about the program.

Validated Test Results

Chemical Name	Result (ppt)
Perfluorooctanoic acid (PFOA)	Not Detected
Perfluorooctane sulfonate (PFOS)	Not Detected
Total PFOA+PFOS (sum of detections of PFOA and PFOS)	Not Detected
Perfluorohexanoic acid (PFHxA)	Not Detected
Perfluoroheptanoic acid (PFHpA)	Not Detected
Perfluorononanoic acid (PFNA)	Not Detected
Perfluorodecanoic acid (PFDA)	Not Detected
Perfluoroundecanoic acid (PFUnA)	Not Detected
Perfluorododecanoic acid (PFDoA)	Not Detected
Perfluorotridecanoic acid (PFTrDA)	Not Detected
Perfluorotetradecanoic Acid (PFTeDA)	Not Detected
n-Methylperfluorooctanesulfonamido-acetic acid (NMeFOSAA)	Not Detected
n-Ethylperfluorooctanesulfonamido-acetic acid (NEtFOSAA)	Not Detected
Perfluorobutanesulfonic acid (PFBS)	Not Detected
Perfluorohexanesulfonic acid (PFHxS)	Not Detected
Hexafluoropropylene oxide dimer acid (HFPO-DA)	Not Detected
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	Not Detected
11-Chloroeicosafuoro-3-oxaundecane- 1-sulfonic acid (11Cl-PF3OUdS)	Not Detected
9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	Not Detected

¹ New Jersey Administrative Code (N.J.A.C), Title 7, Chapter 10, Safe Drinking Water Act. Last Amended June 1, 2020.

ppt – parts per trillion (1 ppt = 1 ng/L [nanogram per liter])
 J – The reported result is an estimated value.

Enclosure 2: Laboratory Report of Performance Sample

Client: Tetra Tech, Inc.
 Project/Site: Former NWS Earle Drinking Water

Job ID:

Client Sample ID:
Date Collected: 04/xx/23 13:48
Date Received: 04/xx/23 20:47

Lab Sample ID:
Matrix: Drinking Water

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	ND		1.8	1.3	0.44	ng/L		05/03/23 02:58	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8	1.3	0.44	ng/L		05/03/23 02:58	1
Perfluorooctanoic acid (PFOA)	ND		1.8	1.3	0.44	ng/L		05/03/23 02:58	1
Perfluorononanoic acid (PFNA)	ND		1.8	1.3	0.44	ng/L		05/03/23 02:58	1
Perfluorodecanoic acid (PFDA)	ND		1.8	1.3	0.44	ng/L		05/03/23 02:58	1
Perfluorotridecanoic acid (PFTrDA)	ND		1.8	1.3	0.44	ng/L		05/03/23 02:58	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8	1.3	0.44	ng/L		05/03/23 02:58	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8	1.3	0.44	ng/L		05/03/23 02:58	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8	1.3	0.44	ng/L		05/03/23 02:58	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8	1.3	0.44	ng/L		05/03/23 02:58	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.8	1.3	0.44	ng/L		05/03/23 02:58	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.8	1.3	0.44	ng/L		05/03/23 02:58	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	1.3	0.44	ng/L		05/03/23 02:58	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	1.3	0.44	ng/L		05/03/23 02:58	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.8	1.3	0.44	ng/L		05/03/23 02:58	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		1.8	1.3	0.44	ng/L		05/03/23 02:58	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		1.8	1.3	0.44	ng/L		05/03/23 02:58	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.8	1.3	0.44	ng/L		05/03/23 02:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	102		70 - 130	04/14/23 09:02	05/03/23 02:58	1
13C2 PFHxA	106		70 - 130	04/14/23 09:02	05/03/23 02:58	1
13C3 HFPO-DA	95		70 - 130	04/14/23 09:02	05/03/23 02:58	1
d5-NEtFOSAA	103		70 - 130	04/14/23 09:02	05/03/23 02:58	1

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

The laboratory results use various laboratory terminology. The following definitions may assist you in understanding the results:

- **Analyte** – The chemical of interest.
- **Data Validation (DV)** – A review process to check the accuracy and quality of laboratory data.
- **Detection Limit (DL)** – The lowest level the laboratory can report the analyte as present.
- **Dilution (D)** – The sample was diluted by the lab.
- **Dilution Factor (Dil Fac)** – The ratio between final volume and initial volume of a sample. A dilution factor of 1 means that the sample was not diluted before it was analyzed.
- **Limit of Detection (LOD)** – The lowest possible level that the laboratory can measure (with a certain degree of confidence) the analyte within the sample.
- **Limit of Quantitation (LOQ)** – The lowest level the laboratory can reliably measure with a known degree of confidence and accuracy.
- **Method Blank** – A PFAS-free water sample that is prepared and analyzed following the same process used for the drinking water sample analysis. The method blank sample results ideally are non-detect indicating they are free from laboratory contamination.
- **Nanograms per Liter (ng/L)** – A measure of concentration of a dissolved substance; for example, 1 ng/L means that 1 nanogram of the chemical is present or dissolved in 1 liter of water. Equivalent to parts per trillion.
- **Non-Detect (ND)** – The analyte was not detected.
- **Parts per trillion (ppt)** – A measure of concentration of a dissolved substance; for example, 1 ppt means that there is 1 part of the chemical in one trillion parts of water. Equivalent to ng/L.
- **Qualifiers** – These are notes from the lab or the data validator to provide information about a result. Common qualifiers include:
 - **"J" (Estimated Value)** – The result for the analyte is detected above the DL but below the LOQ. The value reported is considered estimated.
 - **"B" (Blank)** – The analyte was detected in the method blank.
 - **"D" (Diluted Sample)** – Sample result was from a diluted sample.
- **Result** – Amount of an analyte measured in the sample.

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

Client:
Project/Site:

Job ID:

Client Sample ID:

Lab Sample ID:

Date Collected:

Final qualifier from data validation (DV) process and added manually to lab report sheet by data validator.

Date Received:

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

Matrix: Drinking Water

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018

Analyte	Result	Qualifier	DV Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.76	J	J	1.8	1.3	0.45	ng/L		04/22/23 17:13	1
Perfluoroheptanoic acid (PFHpA)	ND			1.8	1.3	0.45	ng/L		04/22/23 17:13	1
Perfluorooctanoic acid (PFOA)	2.21			1.8	1.3	0.45	ng/L		04/22/23 17:13	1
Perfluorononanoic acid (PFNA)	ND			1.8	1.3	0.45	ng/L		04/22/23 17:13	1
Perfluorodecanoic acid (PFDA)	0.66	J	J	1.8	1.3	0.45	ng/L		04/22/23 17:13	1
Perfluorotridecanoic acid (PFTTrDA)	ND			1.8	1.3	0.45	ng/L		04/22/23 17:13	1
Perfluorotetradecanoic acid (PFTeA)	ND			1.8	1.3	0.45	ng/L		04/22/23 17:13	1
Perfluorobutanesulfonic acid (PFBS)	1.03	J	J	1.8	1.3	0.45	ng/L		04/22/23 17:13	1
Perfluorohexanesulfonic acid (PFHxS)	ND			1.8	1.3	0.45	ng/L		04/22/23 17:13	1
Perfluorooctanesulfonic acid (PFOS)	ND			1.8	1.3	0.45	ng/L		04/22/23 17:13	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND			1.8	1.3	0.45	ng/L		04/22/23 17:13	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND			1.8	1.3	0.45	ng/L		04/22/23 17:13	1
Perfluoroundecanoic acid (PFUnA)	ND			1.8	1.3	0.45	ng/L		04/22/23 17:13	1
Perfluorododecanoic acid (PFDoA)	ND			1.8	1.3	0.45	ng/L		04/22/23 17:13	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND			1.8	1.3	0.45	ng/L		04/22/23 17:13	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND			1.8	1.3	0.45	ng/L		04/22/23 17:13	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND			1.8	1.3	0.45	ng/L		04/22/23 17:13	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND			1.8	1.3	0.45	ng/L		04/22/23 17:13	1

Surrogate

	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	105		70 - 130	04/13/23 10:03	04/22/23 17:13	1
13C2 PFHxA	112		70 - 130	04/13/23 10:03	04/22/23 17:13	1
13C3 HFPO-DA	109		70 - 130	04/13/23 10:03	04/22/23 17:13	1
d5-NEtFOSAA	109		70 - 130	04/13/23 10:03	04/22/23 17:13	1

The result for Perfluorooctanoic acid (PFOA):
PFOA was detected in the sample at 2.21 ng/L (2.21 ppt).
The result for Perfluorooctanesulfonic acid (PFOS):
PFOS was not detected in the sample, represented as "ND".
The result for PFOA + PFOS:
PFOA + PFOS in the sample is 2.21 ng/L (2.21 ppt).

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

The limit of quantitation (LOQ) is the lowest level the laboratory can reliably measure with a known degree of confidence and accuracy.

The limit of detection (LOD) is the lowest possible level that the laboratory can measure (with a certain degree of confidence) the analyte within the sample.

The detection limit (DL) is the lowest level the laboratory can report the analyte as present.

"J" (Estimated Value) - The result for the analyte is detected above the DL but below the LOQ. The value reported is considered estimated.

Dilution (D) - The sample was diluted by lab.

Dilution Factor (Dil Fac) - The ratio between final volume and initial volume of a solution. A dilution factor of 1 means the solution was not diluted before analysis.

Data Validator's Signature
Validation Date