

Why Is the Navy Sampling for PFOS and PFOA?

Additional information can be found online at www.secnav.navy.mil/eie/pages/pfc-pfas.aspx For updates as more information becomes available, visit http://go.usa.gov/xkMBc

If you have specific questions, please contact PAO feedback@navv.mil (email) or 360-396-1030 (voicemail)

The Navy is being protective by identifying potential exposure to unregulated compounds (PFAS) in drinking water. The Navy is taking responsibility for our previous operations.

- The EPA established a lifetime health advisory (70 ppt) for two PFAS, specifically PFOS and PFOA, in drinking water.
- Navy policy is to identify and prioritize locations with the potential for exposure to PFOS and/or PFOA.
- The Navy used AFFF, a source of PFAS, for fire fighting.
- We will continue to:
 - Ensure that our neighbors are not exposed to drinking water that has PFOS and/or PFOA above the EPA LHA
 - Determine if PFOS and/or PFOA are present in drinking water because of past Navy operations



- AFFF aqueous film forming foam
- **EPA** U.S. Environmental Protection Agency
- LHA lifetime health advisory
- OLF **Outlying Landing Field**

- per- and polyfluoroalkyl substances PFAS
- PFOA perfluorooctanoic acid
- perfluorooctane sulfonate PFOS
- parts per trillion ppt





Off-base Drinking Water Sampling near Ault Field and OLF Coupeville

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Drinking Water and Groundwater Investigations

Drinking water and groundwater investigations for Naval Air Station Whidbey Island are ongoing because of past confirmed release of AFFF at Ault Field and suspected AFFF use at OLF Coupeville.

Phase 2 Decision Making Process

- Step out half-mile in the direction of groundwater flow from exceedance of PFOS and/or PFOA LHA
- Navy provides bottled water if PFOS and/or PFOA results exceed LHA



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 - PFOA perfluorooctanoic acid PFOS perfluorooctane sulfonate
 - ppt parts per trillion





Ault Field PFOS and PFOA Investigation

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Summary Table Definitions

Number of samples with PFOS and/or PFOA not detected
Number of samples with PFOS and/or PFOA detections less than the EPA LHA
Number of samples with PFOS and/or PFOA detections greater than the EPA LHA

Notes:

Data is based on validated data through Feb 8, 2017.

Summary counts above are the sums of PFOS and PFOA in each sample, which include estimated quantities.

- **PFAS Known and Suspected Release Locations on Ault Field**
- Former Fire Fighting School
 - Two on-base monitoring wells > **EPA LHA for PFOS** and PFOA
- Runways and potential migration into adjacent runway ditches
- Current Fire Fighting School
 - No groundwater sampling has been conducted

PFAS Off-base Sampling - Phase 1

- 176 properties identified for Phase 1 sampling; notification letters requesting sampling sent and sampling initiated in Nov 2016
- 55 off-base wells sampled by Navy during sampling period, Nov-Dec 2016
- Bottled water provided to one property with sampling result > EPA LHA for PFOS and/or PFOA
- Second letter to request sampling in Phase 1 area sent to 101 properties. Jan 2017
- Through Feb 8, 2017, 76 off-base wells sampled, with 64 validated results received

PFAS Off-base Sampling - Phase 2

- Expanded sampling area based on Phase 1 off-base PFAS sampling and additional information: extends one-half mile downgradient of LHA exceedance and accounts for uncertainty in groundwater flow
- 60 properties identified for Phase 2: letters requesting sampling sent Feb 2017
- Phase 2 sampling scheduled for Feb 20–Mar 4, 2017
- Phase 2 sampling area based on validated data through Feb 8, 2017

- AFFF aqueous film forming foam
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- PFAS per- and polyfluoroalkyl substances **PFOA**
 - perfluorooctanoic acid perfluorooctane sulfonate PFOS
 - ppt
 - parts per trillion







Ault Field PFOS and PFOA Investigation

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Notes:

Data is based on validated data through Feb 8, 2017. Summary counts above are the sums of PFOS and PFOA in each sample, which include estimated quantities.

aqueous film forming foam AFFF EPA **U.S. Environmental Protection Agency**

LHA lifetime health advisory

- OLF **Outlying Landing Field**
- PFAS per- and polyfluoroalkyl substances **PFOA**

perfluorooctanoic acid

PFOS perfluorooctane sulfonate ppt parts per trillion

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PFOS

Of 64 validated results, PFOS was detected in 1 sample above the EPA LHA and was not detected in 63 samples.

- This summary count is for samples that had LHA exceedances, detections below the LHA, or no detections for PFOS and PFOA. LHA exceedances and detections below LHA include estimated quantities.
- Data shown is based on validated data through Feb 8, 2017.
- One sample had an LHA exceedance for PFOS and a detection below the LHA for PFOA.
- One sample had a detection below the LHA for PFOA only.

PFOA

Of 64 validated results, PFOA was detected in 2 samples below the EPA LHA and was not detected in 62 samples.

- AFFF aqueous film forming foam
- EPA U.S. Environmental Protection Agency
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- PFAS per- and polyfluoroalkyl substances
- PFOA perfluorooctanoic acid
- PFOS perfluorooctane sulfonate
- ppt parts per trillion

 \boxtimes

OLF Coupeville Supply Well

Approximate Groundwater

Half-mile Step-out Downgradient

1-mile Zone

Flow Direction

OLF Coupeville PFOS and **PFOA** Investigation

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Number of samples with PFOS and/or PFOA detections greater than the EPA LHA

Data is based on validated data through Feb 8, 2017.

Notes:

Summary counts above are the sums of PFOS and PFOA in each sample, which include estimated quantities.

PFAS Use and On-base Sampling at **OLF Coupeville**

- Historic use of AFFF not confirmed
- One detection of PFOA < EPA LHA in drinking water well at Building 2807: PFOS and PFOA not detected in drinking water well at Building 11
- Navy initiated site inspection at OLF Coupeville to define the source of PFOS and/or PFOA release and to determine groundwater flow and potential migration and exposure pathways

PFAS Off-base Sampling -Phase 1

- 397 properties identified for Phase 1 sampling; notification letters requesting sampling sent and sampling initiated in Nov 2016
- 74 off-base wells and Town of Coupeville water distribution system sampled by Navy during sampling period, Nov 2016-Jan 2017
- Bottled water provided to eight properties with sampling result > EPA LHA for PFOS and/or PFOA (including two properties serviced by one drinking water well)
- Second letter to request sampling in Phase 1 area sent to 109 properties, Jan 2017
- Through Feb 8, 2017, 97 samples collected (94 off-base wells, two on-base wells, and the Town of Coupeville water distribution system), with 89 validated results received

PFAS Off-base Sampling -Phase 2

- Expanded sampling area based on results of Phase 1 off-base PFAS sampling; extends one half-mile downgradient of LHA exceedance and accounts for uncertainty of groundwater flow
- 795 properties identified for Phase 2; letters requesting sampling sent Feb 2017. Of these properties, 768 are serviced by and/or within the area serviced by a community water system; sampling for these properties will consist of sampling the community system's supply wells and distribution system.
- Phase 2 sampling scheduled for Feb 20-Mar 4, 2017
- Phase 2 sampling area based on validated data through Feb 8, 2017

per- and polyfluoroalkyl substances

- AFFF aqueous film forming foam
- **EPA** U.S. Environmental Protection Agency
- LHA lifetime health advisory
- OLF **Outlying Landing Field**
- PFAS **PFOA** perfluorooctanoic acid
 - PFOS perfluorooctane sulfonate
 - parts per trillion ppt

OLF Coupeville PFOS and **PFOA** Investigation

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EPA U.S. Environmental Protection Agency LHA lifetime health advisory

- PFAS per- and polyfluoroalkyl substances
- **PFOA** perfluorooctanoic acid
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OLF Coupeville PFOS and PFOA Investigation Results

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PFOS

Of 89 validated results, PFOS was detected in 1 sample below the EPA LHA and was not detected in 88 samples.

- This summary count is for samples that had LHA exceedances, detections below the LHA, or no detections for PFOS and PFOA. LHA exceedances and detections below LHA include estimated quantities.
- Data shown is based on validated data through Feb 8, 2017.
- Of the 89 samples, 86 samples were from off-base drinking water wells, one sample was from the entry of the Town of Coupeville distribution system, and two samples were from drinking water wells on-base at OLF Coupeville.
- Seven samples had an LHA exceedance for PFOA.
- One sample had a detection below the LHA for both PFOA and PFOS.
- Three samples had a detection below the LHA for PFOA only.

PFOA

Of 89 validated results, PFOA was detected in 7 samples above the EPA LHA, was detected in 4 samples below the EPA LHA, and was not detected in 78 samples.

- PFOA was detected below the LHA in the Town of Coupeville's Fort Casey well on Keystone Hill Road; PFOS was not detected.
- PFOA was detected below the LHA at the entry point of the Town of Coupeville's water distribution system; PFOS was not detected. PFOS and PFOA were not detected in the Town's other three Fort Casey wells.
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SEPA MHealth Wind Understanding Data Packages

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Instrument Measurements

How Are Amounts of Chemicals in Samples Reported?

This table is an example of how PFOA results might be reported by the laboratory given the DL, LOD, and LOQ shown on the figure to the left.

Sample	Instrument Result	Reported Result				
1	non-detect	23U				
2	10	10J				
3	25	25J				
4	30	30				
5	40	40				

J = Estimated U = Not detected

How Are Analytical Measurements Reported?

- aqueous film forming foam AFFF
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SEPA WHealth W Understanding Data Packages

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The result for PFOS: PFOS was detected in the sample at 0.022 µg/L (0.022 ppb or 22 ppt).	_	1 µg/L microgram per lite 0.01	$= 1 \underbrace{ppb}_{part(s)}$ $= 1 \underbrace{ppb}_{part(s)}$ $= billic$ $0 \mu g/L = 0.0$	1 <u>ppb</u> = per n 10 ppb	= 1,000 ppt part(s) p trillion = 10 ppt	er		
The "J" qualifier means that the result detected is an estimated level.	Lab Name: Tes	FORM I LCMS ORGANICS ANALYSIS DATA SHEET						This column identifies the data qualifiers that apply to a given result.
The result for PFOA:	SDG No.:			G				
PFOA was detected in the sample at 0.015 µg/L (0.015 ppb or 15 ppt).	Client Sample Matrix: Water Analysis Meth	ID: WI-CV1116	Lab Sa Lab F: Date (mple ID le ID:	: d: <u>11/28/20</u>	16 16:59)	The limit of quantitation (LOQ) is the lowest level
The "M" qualifier means that laboratory staff had to further verify the value the instrument produced.	Extraction Me Sample wt/vol Con. Extract Injection Vol % Moisture:	Extraction Method: 537Date Extracted: 12/02/2016 07:42Sample wt/vol: 267.2(mL)Date Analyzed: 12/07/2016 22:25Con. Extract Vol.: 1.00(mL)Dilution Factor: 1Injection Volume: 10(uL)GC Column: AcquityID: 2.1(mm)& Moisture:GPC Cleanup: (Y/N) N			12 1 (mm)	can reliably measure this compound with a known degree of confidence and accuracy.		
	Analysis Batc	h No.: 140946	Units:	ug/L				The limit of detection
The result for PFBS:*	CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL	(LOD) is the lowest level at which the laboratory
PFBS was not detected	1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.022	J	0.056	0.045	0.015	can reliably "see" this
The "U" qualifier means	375-73-5	(PFOA) Perfluorobutanesulfonic acid (PFBS)	0.015	U	0.13	0.022	0.0088	The detection limit (DL)
not detected with a high	CAS NO.	CAS NO. SURROGATE			%REC	Q	LIMITS	which the laboratory can
degree of confidence at the LOD.	STL00993 STL00996	13C2 PFHxA 13C2 PFDA			101 114		70-130 70-130	reliably "see" that this compound is present.

* 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.

Per- and Polyfluoroalkyl Substances (PFAS)

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Where Do PFAS Come From?

- Manufactured compounds, no natural occurrence
- Used since 1950s in many products
- Last a long time in the environment
- Globally distributed and detected in people, wildlife, and fish

AFFF

paints and stains

carpets

nonstick cookware

food packaging

fabrics

What Is the EPA Health Advisory for PFOS and PFOA?

- Sets a concentration of 70 ppt in drinking water
- Protects against adverse health effects to sensitive populations and the general public, even for lifetime exposure
- Compares the total concentration of both PFOS and PFOA found to the 70 ppt advisory
- Provides information to state agencies and public health officials on health effects and treatment so they can take steps to reduce exposures
- Is non-enforceable

How Is the EPA Health Advisory Calculated?

- Based on studies of health effects with PFOS and PFOA in laboratory animals
- Considers information regarding health effects of people exposed to PFOS and PFOA
- Protects sensitive populations including the fetuses or nursing infants of mothers who are exposed
- Assumes 20 percent of overall exposure is from drinking water, 80 percent of exposures is from other sources
- AFFF aqueous film forming foam
- ATSDR Agency for Toxic Substances and Disease Registry
- CDC Centers for Disease Control and Prevention
- EPA U.S. Environmental Protection Agency
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Exposure and Health Effects

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PFAS in People

- CDC monitoring estimates that most people in the U.S. have PFAS in their bodies.
- Levels of PFOS and PFOA are going down over time following their phase-out from use.
- Some PFAS stay in the body a long time there is no recommended medical treatment to reduce PFAS in the body.

Source: CDC National Health and Nutrition Examination Survey)

Exposures to PFAS

- Appear to be widespread across the globe
- Are primarily through
 - Ingestion of contaminated food, water, or soil
 - Breathing air that contains contaminated dust from carpets, upholstery, clothing, etc.
- Will build up in the body until exposure stops
- Reach the fetus or nursing infant of mothers who are exposed
- Are not significant through skin contact when bathing or showering

How To Reduce Exposure

- If water contains PFOS and PFOA above the health advisory level, you can reduce exposure by using a different water source for drinking, cooking, and brushing teeth.
- Use certified granular activated carbon or high-pressure membrane systems, such as reverse osmosis, to filter water. These treatment systems require ongoing maintenance.

Health Effects

Based on limited evidence from studies with people, the potential health effects include:

- Increased cholesterol levels
- Changes in growth, learning, and behavior of the developing fetus and child
- Immune system changes

- Decreased fertility
- Altered thyroid function
- Increased the risk of certain types of cancer
- Animals given large doses exhibit developmental, reproductive, and liver effects, along with increased rates of cancer.
- The levels of PFOS or PFOA in your wells do not predict what, if any, health impact might occur as a result of exposure.
- More research is needed to confirm or rule out possible links between exposure and health effects.

Should I Have My Blood Tested?

ATSDR and CDC understand and acknowledge that you may want to know the level of PFAS in your body. However, there are some limitations with blood tests to consider:

- Test results will not provide clear answers for existing or possible health effects.
- Blood testing for PFAS is not a routine test that health care providers offer.
- Consult with your doctor for more information.

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Levels of PFAS in blood serum of a community of residents from Minnesota with PFAS removed from their drinking water in 2000

> Source: Minnesota Department of Health. Available from: http://www.health.state. mn.us/divs/hpcd/tracking/biomonitoring/ projects/emetro-landing.html

Comprehensive Environmental Response, Compensation, and Liability Act

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OLF Coupeville Site Inspection

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Objectives of Site Inspection

- Develop conceptual site model
 - Measure PFOS and PFOA concentrations
 - Determine aguifer characteristics, including groundwater flow and direction
 - Identify potential drinking water wells
- Partner with stakeholders to do the following:
 - Evaluate site data and information
 - Plan additional investigation to fill any data gaps
 - Identify potential removal actions
 - Develop path forward and continue public outreach

Base Boundary OLF Coupeville Supply Well Installed Monitoring Well(s) Proposed Monitoring Well(s) (number of wells and depth to be determined) Shallow Monitoring Well Intermediate Monitoring Well **Deep Monitoring Well** Depth of Paired Monitoring Well To Be Determined

Example Conceptual Site Model

AFFF EPA U.S. Environmental Protection Agency LHA lifetime health advisory

- per- and polyfluoroalkyl substances perfluorooctanoic acid PFOA
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perfluorooctane sulfonate parts per trillion

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The Navy has expanded the off-base sampling areas and will continue to notify residents of results.

Is the result **above** the healthbased level?

Is the result at or below the healthbased level? The Navy will provide alternate water for drinking and cooking.

No immediate action is needed; the Navy may monitor as necessary.

The Navy is fully committed to addressing potential PFOS and PFOA exposure due to Navy activity in a timely manner. The Navy will be involved until necessary actions are complete.

Ongoing Actions

- Address PFOS and PFOA exceedances in drinking water to limit exposure
- Expand sampling area based on sampling results
- We continue to need your help
 - To locate unrecorded wells to aid site investigations
 - To access wells
- Continue to monitor the science and regulations related to PFAS
- Continue to communicate with residents through the press, websites, emails, phone line, and Restoration Advisory Board
- Continue to investigate groundwater to determine PFAS source locations and migration and exposure pathways following the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) process
- Continue to partner with EPA Region 10, Agency for Toxic Substances and Disease Registry, Washington State Department of Health, and Island County Public Health to determine the best path forward
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We Need Your Help – Drinking Water Sampling Process

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Sampling Process

- We need your help to:
 - Make your appointment (sampling will take less than an hour)
 - Review and fill out the questionnaire
- A team of qualified professionals will:
 - Collect cold water from the sample point (water will run for 3–5 minutes)
 - Analyze the sample according to EPA guidelines for a sampling and analysis process that follows strict quality control and quality assurance protocols

Other Ways to Schedule an Appointment

To schedule an appointment for sampling your drinking water, please contact: PAO_feedback@navy.mil (email) or 360-396-1030 (voicemail)

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Sign Up for Sampling Appointments Here

Drinking water samples will be collected

Monday–Saturday, February 20–March 4.

- Sampling appointments are available
 - Monday–Friday, 9 a.m.–6 p.m. and Saturday, 9 a.m.–1 p.m.
- Sampling takes less than an hour.
- An adult resident (18 years of age or older) must be present during sampling.

Phase 2 Activities

Email Distribution List

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