

Air Force PFOS/PFOA Snapshot

Perfluorooctane sulfonate (PFOS) and perfluorooctanoic acid (PFOA) are synthetic fluorinated organic chemicals that were used in many industrial and consumer products such as nonstick cookware, stain-resistant fabric and carpet, some food packaging and specialized foam.

PFOS and PFOA are part of a family of synthetic fluorinated chemicals called per- and polyfluoroalkyl substances (PFAS). PFOS and PFOA are the only two compounds of this group with established Environmental Protection Agency health advisories for drinking water.

Significant Information

- In 1970, the Air Force began using the firefighting agent Aqueous Film Forming Foam (AFFF) which contained PFOS and PFOA.
- AFFF is the most efficient extinguishing method for petroleum-based fires and is widely used across the firefighting industry, to include all commercial airports, to protect people and property.
- On May 19, 2016, the EPA established a lifetime health advisory (HA) level of 70 parts per trillion for PFOS and/or PFOA in drinking water. The LHA is non-regulatory and not enforceable; however, under the Comprehensive Environmental Response, Compensation and Liability Act the Air Force uses it to determine an acceptable level of PFOS/PFOA in drinking water.

203 Installations Require Preliminary Assessments (PAs)

100% of PAs Complete

of those 203, **190** Installations Conducting a Site Inspection (SI)

47% of SIs Complete

IDENTIFY

39	BRAC
89	Active/Reserve
75	ANG
30	BRAC
85	Active/Reserve
75	ANG

RESPOND

Air Force Drinking Water Response Actions:

- Bottled water
- Point-of-use filtration
- Whole-house filtration
- Municipal water supply hookup
- Municipal water treatment
- New well drilling

BRAC

Castle
K.I. Sawyer
March
Mather
Pease
Plattsburgh
Reese
Wurtsmith

ACTIVE/RESERVE

Cannon Luke
Dover Mountain Home
Eielson New Boston
Ellsworth Peterson
Fairchild Shaw
JBMDL Wright-Patterson

ANG

JB Cape Cod
Gabreski
Horsham
Morris
Toledo

25
Installations

176/176

Installations transitioned to new C6 AFFF in stockpiles and fire trucks

\$5.3M

Cost for ecologic system kits for fire vehicles

100%

Installations finished retrofitting vehicles with ecologic system kits

979,000

Gallons of legacy AFFF incinerated

\$10.8M

Cost to date to replace and incinerate legacy AFFF in stockpiles and fire trucks

PREVENT



\$546M

total expenditures PFOS/PFOA Actions to Date

investigations | response actions | prevention

Installations Status Update

BRAC Installations

Former Castle AFB, CA: Three resident wells above HA, bottled water provided

Former K.I. Sawyer AFB, MI: One residential well above HA; filtration system provided

Former March AFB, CA: One public well above HA; shut off, cooperative agreement in place. 2 residential wells above HA; connected to municipal water supply

Former Mather AFB, CA: One municipal well above HA; Air Force to fund operation and maintenance of treatment system. 1 private drinking water well above HA, bottled water provided to residence and on-site organization facilities that use the well

Former Pease AFB, NH: Two municipal wells above the HA; 1 shut off, 1 on line with treatment system, cooperative agreement in place. 5 residential wells above HA, 2 connected to municipal water supply, 2 with filtration systems provided, 1 provided bottled water

Former Plattsburgh AFB, NY: Four residential wells above HA; 3 filtration systems provided, 1 residence provided bottled water

Former Reese AFB, TX: 230 residential wells and 3 municipal wells above the HA and/or Texas Protective Concentration Limits; 218 filtration systems installed, remaining provided bottled water

Former Wurtsmith AFB, MI: One residential well above HA; connected to municipal water supply

ANG Installations

Gabreski ANG, NY: County wells above HA; all residential wells hooked up to municipal water

Horsham ANG, PA: Under Administrative Order. 2 on-base drinking water wells above HA; temporary carbon filtration installed and bottled water provided. 61 off-base private wells and 5 municipal wells above HA. Currently providing alternate water sources to surrounding townships while carbon filtration systems are constructed

JB Cape Cod, MA: Wellhead treatment constructed on one municipal well; operation began 14 Feb 2020. 3 residential wells above HA, 1 receiving bottled water; 4 filtration systems installed; 108 municipal water connections complete

Morris ANG, AZ: Three off-base residential wells above HA; 2 residences provided bottled water, 1 residence unoccupied

Toledo ANG, OH: One off-base residential well above HA. Residence connected to municipal water supply; well closed

Other Drinking Water Response Actions

Barnes ANG, MA: Two municipal wells above HA; wells taken offline. 3 private wells above HA for which state is providing alternate water source

Harrisburg IAP, PA: Municipal supplier delivered water with elevated PFOS in 2014; the supplier responded to the problem and conducted periodic monitoring. The current wells utilized and drinking water are currently below the HA

Joe Foss Field, SD: 10 municipal wells above HA; alternate water supply provided by other municipal wells

Current as of 31 July 2020

Active Installations

Cannon AFB, NM: Three off-base drinking water sources above HA; bottled water provided

Dover AFB, DE: Seven off-base residential wells above HA; filtration system installed at 5 properties, bottled water provided to remaining 2 locations

Eielson AFB, AK: GAC system installed at on-base water treatment plant. 170 off-base private wells above HA; 165 water systems installed, 5 residences provided bottled water. AF signed interim ROD. Cooperative agreement signed with City of North Pole to connect residents to municipal water. Construction began April 2020

Ellsworth AFB, SD: 24 off-base residential wells serving 94 residences above HA; 2 residences (1 well) connected to base water supply, 3 residences (2 wells) connected to city water; filtration system installed at 19 residences (15 wells), 1 ion exchange system installed at a mobile home park, 5 residences (5 wells) provided bottled water

Fairchild AFB, WA: Two municipal wells above HA; filtration system installed and one well in non-active. 90 off-base residential wells above HA; 78 filtration systems installed, 5 residences connected to city water, 10 residences provided bottled water

JB McGuire-Dix-Lakehurst, NJ: Two on-base backup wells above HA; filtration system installed; new deep well under construction and treatment building at 95% design as permanent solution. Six off-base wells above HA; 2 filtration systems installed, 3 properties provided bottled water, 1 connected to municipal water. Installing connection to municipal water as permanent solution

Luke AFB, AZ: One off-base residential well above HA; bottle water provided

Mountain Home AFB, ID: Two on-base drinking water wells above HA; 1 filtration system installed; bottled water provided for second well

New Boston AFS, NH: One on-base drinking water well above HA; filtration system installed

Peterson AFB, CO: 42 municipal wells above HA; wells taken offline, 10 back on line with treatment systems. 4 off-base locations provided bottled water; 21 private wells above HA; 27 residences provided filtration systems; 1 location connected to municipal water supply; 1 ion exchange system installed at a mobile home park

Shaw AFB, SC: Three public water systems, 2 business and 24 residential wells above HA, bottled water provided to 270 residences and 2 businesses

Wright-Patterson AFB, OH: Two wells above HA, filtration system installed

Non-drinking Water Response Actions

Burlington ANG, VT

Stewart ANG, NY

Former Chanute AFB, IL

Former March AFB, CA

Former Mather AFB, CA

Former Pease AFB, NH

Former Wurtsmith AFB, MI