**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 (LHA) 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.

**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.

**Air Force Drinking Water Response Actions:**
- Bottled water
- Point-of-use filtration
- Whole-house filtration
- Municipal water supply hookup

**203 Installations Require Preliminary Assessments (PAs)**
- 39 BRAC
- 89 Active/Reserve
- 75 ANG
- 99% of PAs Complete
- *Estimated completion for last base, Joint Base Elmendorf-Richardson, Alaska, is Spring 2020.

**of those 203, 189 Installations Expected to Require a Site Inspection (SIs)**
- 30 BRAC
- 84 Active/Reserve
- 75 ANG
- 78% of SIs Complete

**Prevent**
- 176/176 Installations transitioned to new C6 AFFF in stockpiles and fire trucks
- $5.3M Cost for ecologic system kits for fire vehicles
- 96% 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

**Respond**
- 22 Installations
- Air Force Drinking Water Response Actions:
  - Bottled water
  - Point-of-use filtration
  - Whole-house filtration
  - Municipal water supply hookup

**Identify**
- 203 Installations Require Preliminary Assessments (PAs)
- 39 BRAC
- 89 Active/Reserve
- 75 ANG
- 99% of PAs Complete
- *Estimated completion for last base, Joint Base Elmendorf-Richardson, Alaska, is Spring 2020.

**Note:**
*Estimated completion for last base, Joint Base Elmendorf-Richardson, Alaska, is Spring 2020.*

**Current as of 25 June 2019**

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- $5.3M Cost for ecologic system kits for fire vehicles
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**PFOS/PFOA** Actions to Date
- $357M* total expenditure

*Estimated completion for last base, Joint Base Elmendorf-Richardson, Alaska, is Spring 2020.*
## Installations Status Update

### On-base Air Force Drinking Water Response Action

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

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

**Wright-Patterson AFB, OH**
- Two wells above LHA, filtration system installed

**Off-base Air Force Drinking Water Response Action**

**Dover AFB, DE**
- One off-base residential well above LHA; filtration system provided

**Ellsworth AFB, SD**
- 26 off-base residential wells above LHA; 2 locations connected to base water supply, 97 residences provided bottled water

**Fairchild AFB, WA**
- Two municipal wells above LHA; filtration system installed. 90 off-base residential wells above LHA; 84 filtration systems installed, remaining provided bottled water

**Former K.I. Sawyer AFB, MI**
- One residential well above LHA; filtration system provided

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

**Former Pease AFB, NH**
- Two municipal wells above LHA; 1 shut off, 1 on line with treatment system, cooperative agreements in place. 5 residential wells above LHA, filtration systems installed at 4 residences, 1 residence provided bottled water

**Former Plattsburgh AFB, NY**
- Four residential wells above LHA; 3 filtration systems provided, 1 residence provided bottled water

**Former Wurtsmith AFB, MI**
- One residential well above LHA; connected to municipal water supply

**Luke AFB, AZ**
- One off-base residential well above LHA; bottled water provided

### Both On-base and Off-base Air Force Drinking Water Response Action

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

**Eielson AFB, AK**
- GAC system installed at on-base water treatment plant. 170 off-base private wells above LHA; 164 water systems installed, 6 residences provided bottled water. Interim ROD for permanent remedy signed by the Air Force

**JB McGuire-Dix-Lakehurst, NJ**
- Two on-base backup wells above LHA; filtration system installed. 5 off-base wells above LHA; 3 filtration systems installed, 2 properties provided bottled water. Installing connection to municipal water as permanent solution

### Other Drinking Water Response Action

**New Castle ANG, DE**
- 14 municipal wells above LHA; all have carbon treatment installed

**Stewart ANG, NY**
- City of Newburgh drinking water reservoir above LHA; alternate water provided through New York State aqueduct. State-funded public drinking water system for Newburgh construction is complete but not operating

**Joe Foss Field, SD**
- 10 municipal wells above LHA; alternate water supply provided by other municipal wells

**Harrisburg IAP, PA**
- Municipal supplier delivered water with elevated PFOS in 2014; the supplier mitigated the problem and conducted periodic monitoring. The current wells utilized and drinking water are currently below the LHA

**Barnes ANGB, MA**
- Two municipal wells above LHA; wells taken offline. Three private wells above LHA for which state is providing alternate water source

** Martinsburg ANG, WV**
- One municipal well above LHA. GAC system installed by city and functioning starting in December 2017

### Non-drinking Water Response Action

**Burlington ANG, VT**
- Former Chanute AFB, IL

**Former March AFB, CA**
- Former Mather AFB, CA

**Former Pease AFB, NH**
- Stewart ANG, NY

**Former Wurtsmith AFB, MI**
- Current as of 25 June 2019