Perfluorooctane Sulfonate (PFOS) and Perfluorooctanoic Acid (PFOA) are organic chemicals that were used in industrial and consumer products such as nonstick cookware, stain-resistant fabric and carpet, some food packaging and specialized foam. They are part of a family of synthetic fluorinated chemicals called per- and polyfluoroalkyl substances (PFAS). PFOS PFOA are the only two compounds of this group with established Environmental Protection Agency health advisories for drinking water.

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 or 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.

### Identify

<table>
<thead>
<tr>
<th>203 Installations Require Preliminary Assessments (PAs)</th>
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<tr>
<td><strong>100% of PAs Complete</strong></td>
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Of those 203, **190 Installations Conducting a Site Inspection (SI)**

| 20% of SIs Complete |

Of those 190, **189 Installations Planning a Remedial Investigation (RI)**

| 24% of RIs Initiated |

**BRAC:** 4 RIs awarded FY20 and 1 awarded FY19
**ACTIVE/Reserve:** 29 RIs awarded FY20
**ANG:** 10 RIs awarded FY20, 1 awarded FY19, 1 awarded FY16

### 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
- Dover
- Eielson
- Ellsworth
- Fairchild
- Goodfellow
- JBMDL
- JBSA Randolph
- Little Rock
- Luke

**ANG**
- McConnell
- Mountain Home
- New Boston
- Peterson
- Scott
- Shaw
- Tinker
- Travis
- Wright-Patterson

### Prevent

**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**

**$676M total expenditures**

**PFOS/PFOA Actions to Date**

**Investigations | response actions | prevention**

Current as of 25 February 2021
### Installations Status Update

#### BRAC Installations

**Former Castle AFB, CA:** Three private wells above LHA, BWP, two filtration systems provided

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

**Former March AFB, CA:** One public well above LHA; treatment system on line, cooperative agreement in place. 2 private wells above LHA; connected to municipal water supply

**Former Mather AFB, CA:** Two public wells above LHA; Air Force to fund operation and maintenance of treatment system of one well. BWP to residence and on-site organization facilities that use the other public well

**Former Pease AFB, NH:** Two public wells above the LHA; 1 shut off, 1 treatment system on line, cooperative agreement in place. 5 private wells above LHA, 2 connected to public water supply, 2 with filtration systems provided, 1 with BWP

**Former Plattsburgh AFB, NY:** Four private wells above LHA; 3 filtration systems provided, 1 BWP

**Former Reese AFB, TX:** 235 private wells and 4 public wells above the LHA and/or Texas Protective Concentration Limits; 225 filtration systems provided, remaining BWP

**Former Wurtsmith AFB, MI:** One private well above LHA; connected to public water supply

#### ANG Installations

**Gabreski ANG, NY:** County wells above LHA; 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 BWP. 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. 2 residential wells above HA, BWP to 1 and 4 filtration systems installed; 108 municipal water connections complete

**Morris ANG, AZ:** Three off-base residential wells above HA; BWP to 2, 1 residence unoccupied

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

#### Active Installations

**Cannon AFB, NM:** Three off-base drinking water sources above LHA; BWP

**Dover AFB, DE:** Eight off-base private wells above LHA; filtration system installed at 5 properties, BWP to remaining 3 locations

**Eielson AFB, AK:** GAC system installed at on-base water treatment plant. 170 off-base private wells above LHA; 165 water systems installed, BWP to 5 residences. 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:** 25 off-base residential wells serving 95 residences above LHA; 2 residences (1 well) connected to base water supply, 4 residences (3 wells) connected to city water; filtration system installed at 20 residences (15 wells), 1 ion exchange system installed at a mobile home park, BWP to 5 residences (5 wells)

**Fairchild AFB, WA:** Two municipal wells above LHA; filtration system installed and 1 well in non-active. 93 off-base residential wells above LHA; 78 filtration systems installed, 5 residences connected to city water, BWP to 19 residences

**Goodfellow AFB, TX:** 13 residential wells above LHA; BWP; sampling ongoing

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

**JBSA Randolph, TX:** Four residential wells above LHA; BWP; sampling ongoing

**Little Rock AFB, AR:** Four off-base residential wells above LHA; BWP

**Luke AFB, AZ:** One off-base residential well above LHA; BWP

**McConnell AFB, KS:** Three residential wells above LHA; 1 location connected to municipal water supply; BWP; sampling ongoing

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

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

**Peterson AFB, CO:** 42 municipal wells above LHA; wells taken offline, 10 back on line with treatment systems. 22 private wells above LHA with BWP to 1 off-base location and 20 residences provided filtration systems (5 wells service 2 homes and 1 well services 5 homes); 2 locations connected to municipal water supply; 1 ion exchange system installed at 2 mobile home parks.

**Scott AFB, IL:** One off-base residential well above LHA; BWP; sampling ongoing

**Shaw AFB, SC:** Three public water systems, 3 business and 26 residential wells above LHA, BWP to 219 residences and 3 businesses; sampling ongoing

**Tinker AFB, OK:** Three off-base private wells above LHA; BWP; sampling ongoing

**Travis AFB, CA:** Three off-base residential wells above LHA; BWP

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

#### Other Drinking Water Response Actions

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

**Harrsiburg 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 LHA

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

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

**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 treatment system constructed for reservoir, but not operating as a drinking water source

#### 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**

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Current as of 25 February 2021