Department of the Air Force PFAS Snapshot

Per- and polyfluoroalkyl substances (PFAS) are a group of synthetic fluorinated chemicals. Perfluorooctane Sulfonate (PFOS) and Perfluorooctanoic Acid (PFOA) are two organic chemicals within the PFAS group that were used in industrial and consumer products such as nonstick cookware, stain-resistant fabric and carpet, some food packaging and specialized foam.

In 1970, the Department of the Air Force (DAF) 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. Under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), DAF uses 70 parts per trillion (ppt) for PFOS or PFOA, individually or combined, as an action level in drinking water in accordance with the Department of Defense (DoD) policy.

IDENTIFY & INVESTIGATE

204 Installations Require Preliminary Assessments (PAs)*

100% of PAS complete

Of those 204, **191** Installations Planning a Site Inspection (SI)

100% of SIS complete

Of those, 191 Installations Planning a Remedial Investigation (RI)

68% of RIS Awarded

BRAC: 18 of 30 RIs awarded Active/Reserve: 82 of 86 RIs awarded ANG: 30 of 75 RIs awarded

* PA numbers reflect AFFF sources only and does not include the current work DAF is undertaking to identify non-AFFF PFAS sources.

39 **BRAC**

90 Active/Reserve

75 **ANG**

30 **BRAC**

86 Active/Reserve

75 **ANG**

30 **BRAC**

86 Active/Reserve

75 **ANG**

ANG

DAF Drinking Water Response Actions:

Installations

- **Bottled** water
- Point-of-use filtration
- Whole-house filtration
- **Municipal Water Supply hookup**
- **Municipal Water Treatment**
- New well drilling

BRAC

Castle George K.I. Sawyer March

Mather Pease

Plattsburgh

Reese Wurtsmith ACTIVE/RESERVE

Cannon Dover **Eielson** Ellsworth Fairchild Goodfellow **Homestead**

Hurlburt Field JBER-Fort Yukon Tinker

JBMDL JBSA Randolph Luke McConnell Mountain Home McEntire **New Boston** Peterson Scott Shaw **Travis**

Little Rock

Barnes

Biddle (formerly Horsham)

Gabreski Montana Morris

Otis/JB Cape Cod

Shepherd Field (Martinsburg)

Toledo

Wright-Patterson

PAST ACTIONS

transitioned to

new C6 AFFF in

trucks in 2017

stockpiles and fire

979,000

Gallons of legacy AFFF disposed in 2017

2017 Cost to date to replace and dispose of legacy AFFF in stockpiles and fire trucks

AFFF replace-

ment wit fluorine free foam

100% AFFF systems locked Total gallons of

out and tagged out of DAF Tier 2 (F3) in progress facilities in Mar 2023 (539/539)*

Does not include hangars at Government Owned Contractor Operated Air Force Plants. 3 Tier 1 hangars in service have AFFF foam, will transition to F3by FY25 **Expenditures as of Jan 2024

542,500 445,800

Total gallons of AFFF Concentrate AFFF Concentrate in Fire Vehicles/ in Facilities Storage

Target to complete AFFF replacement with fluorine free foam.

total force expenditures** PFAS ACTIONS TO DATE

investigations | response actions | prevention

Current as of 31 January 2024

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Installations Status Update*

Active/Reserve Installations

Cannon AFB, NM: 3 off-base drinking water sources above 70 ppt; BWP, FSI at 3, sampling completed. Engineering Evaluation Cost Analysis–Pilot Study South East Corner May '21, North Playa September '23

Dover AFB, DE:9 off-base private wells above 70 ppt; 9 FSI, sampling ongoing Eielson AFB, AK: GAC system installed at on-base water treatment plant; AF signed interim record of decision to connect residents to municipal water. 93% of all eligible properties have been connected to municipal water by Oct. '22

Ellsworth AFB, SD: 23 off-base residential wells above 70 ppt; 1 well connected to base water supply, 3 wells connected to city water; FSI at 15 wells, 1 ion exchange system installed at a mobile home park, BWP to 3 residences, sampling completed

Fairchild AFB, WA: 2 municipal wells above 70 ppt; FSI and 1 well is non-active. 107 off-base residential wells above 70 ppt; 89 FSI, 4 residences connected to city water, BWP to 28 residences

Goodfellow AFB, TX: 33 residential wells above 70 ppt, BWP, sampling completed, 6 residents connected to municipal source, POETS installation complete for 20 off-base wells, 5 POETS pending installation

Homestead ARB, FL: Sampling completed; POETS operating at 3 off-base private wells above 70 ppt; BWP at 2 additional locations while monitoring continues to evaluate a one-time 70 ppt exceedance

Hurlburt Field, FL: 2 wells above 70 ppt; BWP, sampling completed JBER-Fort Yukon LRRS, AK: 1 on-base well above 70 ppt, FSI July '23

JB McGuire-Dix-Lakehurst, NJ: 2 on-base wells above 70 ppt; FSI; wells/FSI decommissioned. New deep well and public water system constructed; began operation 1 Apr '23. 6 off-base wells above 70 ppt; 6 connected to municipal water. Well head treatment on 1 municipal well based on NJ MCL

JBSA Randolph, TX:5 residential wells above 70 ppt, 1 of 5 wells abandoned; BWP; sampling completed, POETS installation in-progress at 3 wells, 1 well connected to public water supply in-progress

Little Rock AFB, AR: 4 off-base residential wells above 70 ppt, 2 of the 4 on POETS, 2 BWP, sampling completed

Luke AFB, AZ: 3 off-base residential wells above 70 ppt; all connected to municipal water. 3 public utility wells and 2 distribution points above 70 ppt; FSI and community of \sim 1,630 residences transitioned off BW, sampling completed

McConnell AFB, KS: 3 residential wells above 70 ppt; 1 location connected to municipal water supply; BWP; sampling completed

Mountain Home AFB, ID: 2 on-base drinking water wells above 70 ppt; one well taken offline and replaced by another well below 70 ppt; second well decommissioned and facility connected to base drinking water supply system below 70 ppt. Off-base sampling completed

New Boston SFS, NH: 1 on-base drinking water well above 70 ppt; FSI; off-base property well inventory and sampling project underway, ECD Feb '24. On-base drinking water wells are sampled on an annual basis and are below state MCLs

Peterson SFB, CO: 42 municipal wells with FSI, 21 private wells with FSI (servicing 30 residences), 2 private wells with FSI at a mobile home park, 2 private wells connected to city and BWP at one 1 private well; sampling completed

Scott AFB, IL: 1 off-base residential well above 70 ppt; FSI; sampling completed **Shaw AFB, SC:** 3 public water systems, 3 business and 33 residential wells above 70 ppt, BWP to 245 residences and 3 businesses; sampling ECD Mar '24

Tinker AFB, OK:7 off-base private wells above 70 ppt; BWP; sampling completed; POETS installation complete at 2 wells, 4 are connected to municipal water with 1 estimated to be connected to municipal water by May '24

Travis AFB, CA: Three off-base residential wells above 70 ppt. POETS installation complete; BW discontinued Dec '21. Quarterly system sampling continues to be below 70 ppt

Wright-Patterson AFB, OH: 2 on-base wells above 70 ppt, GAC system installed.

Off-base drinking water well sampling completed, no private drinking water wells above 70 ppt, one off-base storm water outfall discharge exceeds 70 ppt. Implementing NTCRAs at multiple AFFF

sites to treat PFAS-impacted water

BRAC Installations

Former Castle AFB, CA: 3 private wells above 70 ppt, FSI at 3 Former George AFB, CA: 1 private well above 70 ppt; FSI Former K.I. Sawyer AFB, MI: 1 private well above 70 ppt; FSI Former March AFB, CA: 1 public well above 70 ppt; treatment system on-line, cooperative agreement in place. 2 private wells above 70 ppt; connected to public water supply

Former Mather AFB, CA: 2 private and 2 public wells above 70 ppt; BWP for the private wells. FSI and 0&M of system by purveyor for one public well. Air Force refurbished existing alternate well for replacement of the other public well

Former Pease AFB, NH: 2 public wells above 70 ppt; both treatment systems on line, cooperative agreement in place. 5 private wells above 70 ppt, 2 connected to public water supply, 2 FSI, 1 shutdown. 7 private drinking water wells above NH MCLs, 3 connected to public water supply, 1 AF-installed FSI, 2 private FSI, 1 BWP by NH Former Plattsburgh AFB, NY: 4 private wells above 70 ppt; 3 FSI, 1 BWP. 3 private wells above NY levels, FSI by NY for the 3 wells Former Reese AFB, TX: 266 private wells and 4 public wells above the 70 ppt and/or Texas PCLs; 1 public well replaced by connection to City of Lubbock supply, 259 FSI, remaining BWP Former Wurtsmith AFB, MI: 1 private well above 70 ppt; connected to public water supply

ANG Installations

Barnes ANGB, MA: 2 municipal wells above 70 ppt; treatment system online

Biddle ANGB (Formerly Horsham), PA: Under Administrative Order. 2 on-base DW wells above 70 ppt; temporary FSI and BWP. 67 off-base private wells above 70 ppt; 66 private wells connected to municipal water; 1 connection declined by owner. 5 municipal wells above 70 ppt; providing alternate water source while municipal GAC filtration systems are constructed; BWP at 2 off-base DW wells previously tested above the PADEP MCLs

Gabreski ANGB, NY: 2 municipal wells above 70 ppt, FSI on both; all residential wells hooked up to municipal water

McEntire ANGB, SC: 2 off-base private wells above 70 ppt; BWP Montana ANGB, MT: 1 off-base residential well above 70 ppt; FSI Morris ANGB, AZ: 3 off-base residential wells above 70 PPT; all connected to municipal water

Otis ANGB (JB Cape Cod), MA: No residential wells above 70 ppt, 123 municipal water connections completed (112 based on 70 ppt; 11 based on MA MCL). Wellhead treatment on 4 municipal wells (1 based on 70 ppt; 3 based on MA MCL). Periodic sampling of private wells. Based on MA MCL: 2 private wells impacted (BWP)

Shepherd Field (Martinsburg) ANGB,WV:1 municipal well above 70 ppt. GAC system installed and functioning since December '17 Toledo ANGB, OH: 2 off-base residential wells above 70 ppt; 1 residence connected to municipal water supply, 1 BWP

Non-AF led Drinking Water Responses

Barnes ANGB, MA Harrisburg IAP, PA Joe Foss Field, SD Luke AFB, AZ New Castle ANG, DE Stewart ANGB. NY

*State MCL data included in updates in accordance with the <u>Dec 2021 OSD</u>

<u>Memorandum</u> regarding use of promulgated state drinking water standards for PFAS