

# Air Force Civil Engineer Center

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## Cannon AFB PFAS Public Update

14 September 2022



# Agenda



- **Investigation History**
- **Remedial Investigation**
- **Engineering Evaluation/Cost Analysis – Pilot Study**
- **Public Engagement**
- **Going Forward**
- **Additional Information**
- **Common Acronyms**

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# Investigation History



- **2015 Preliminary Assessment (PA)**
  - Identified areas where AFFF may have been released into the environment and recommendations were made on what areas should be advanced to the Site Investigation
- **2018 Site Investigation (SI)**
  - Base drinking water supply wells were not impacted
  - Identified on-base groundwater monitoring wells that exceeded the EPA Lifetime HA
- **2019 Off Base SI**
  - Based on results from On Base SI, obtained off-base samples from 25 private drinking water locations; 3 locations exceeded the HA

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# Remedial Investigation



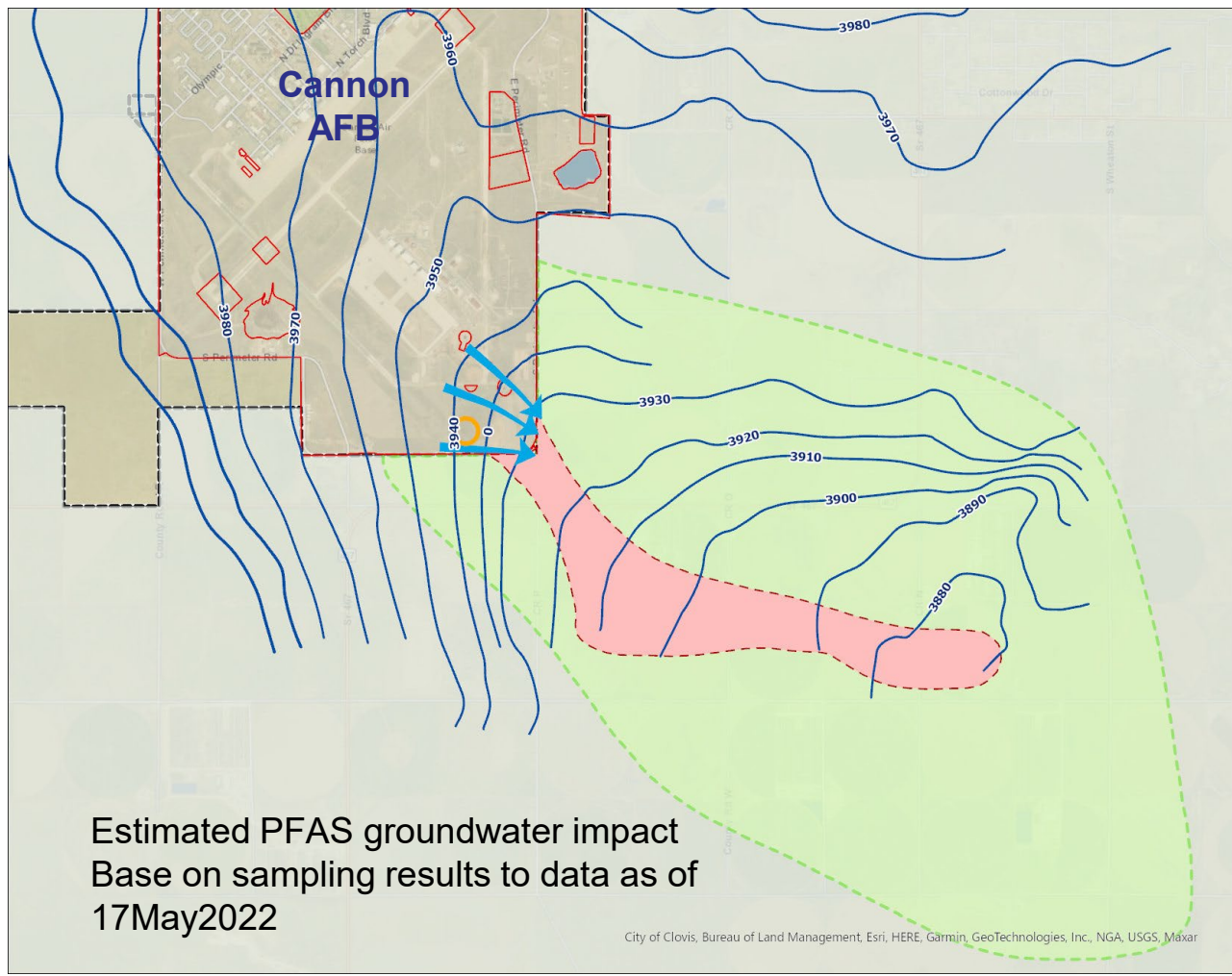
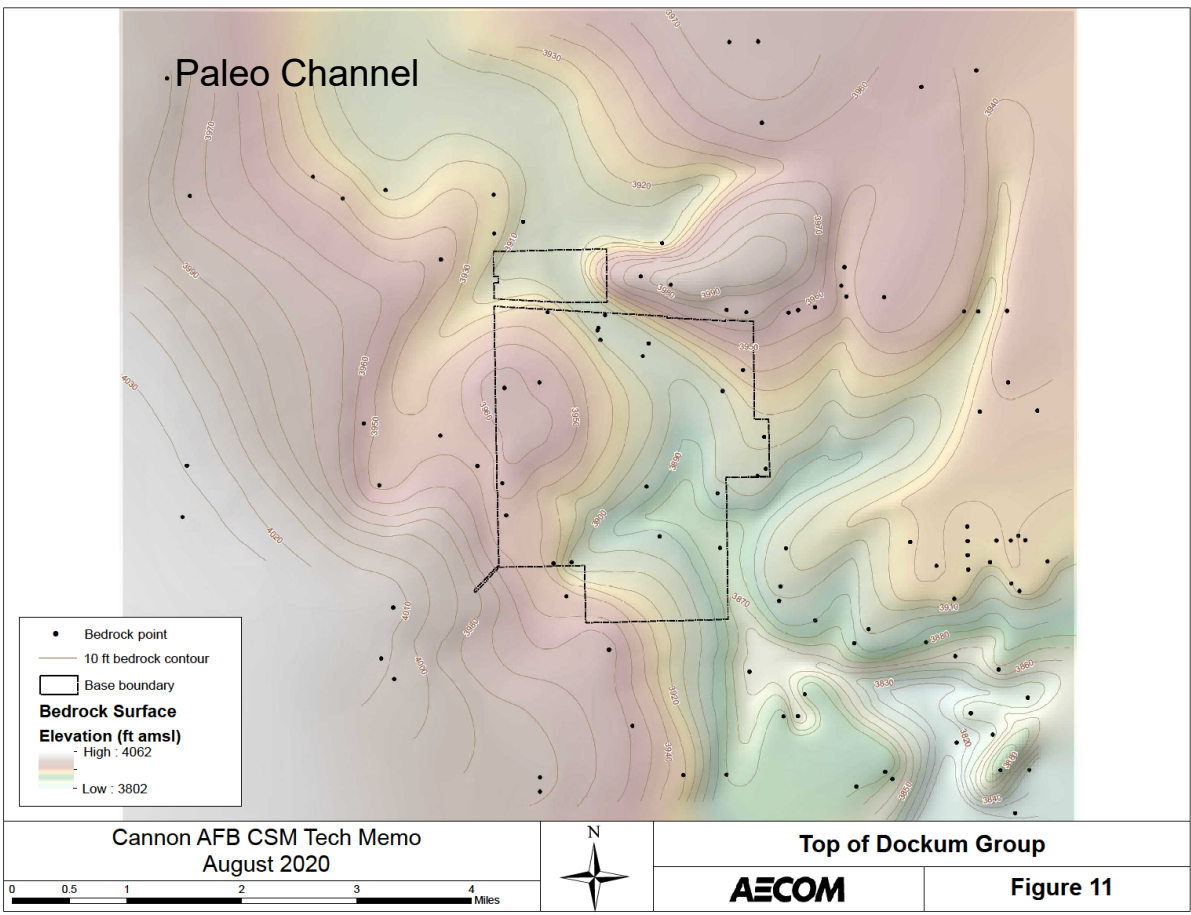
## ■ Remedial Investigation (RI) Status

- 28 Aug 20 Remedial Investigation Contract awarded
- 21 Jun 21 RI Work Plan/QAPP sent to NMED & EPA for 30 Day regulatory review; review period 23Jun-23Jul2021
- Work Plan completed – 1 Sep 2021
- RI work completed to date:
  - Soil samples: on Base 65 – off Base 34
  - Groundwater samples: on Base 19 – off Base 34
  - 13 on base monitoring wells planned for installation; 7 have been installed
- Department of the Air Force (DAF) has consistently endeavored to work and coordinate with the state within the CERCLA process by sharing information, providing opportunities to comment on work plans, and inviting NMED to attend/present their information at Cannon's Quarterly Public Meetings

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# Remedial Investigation



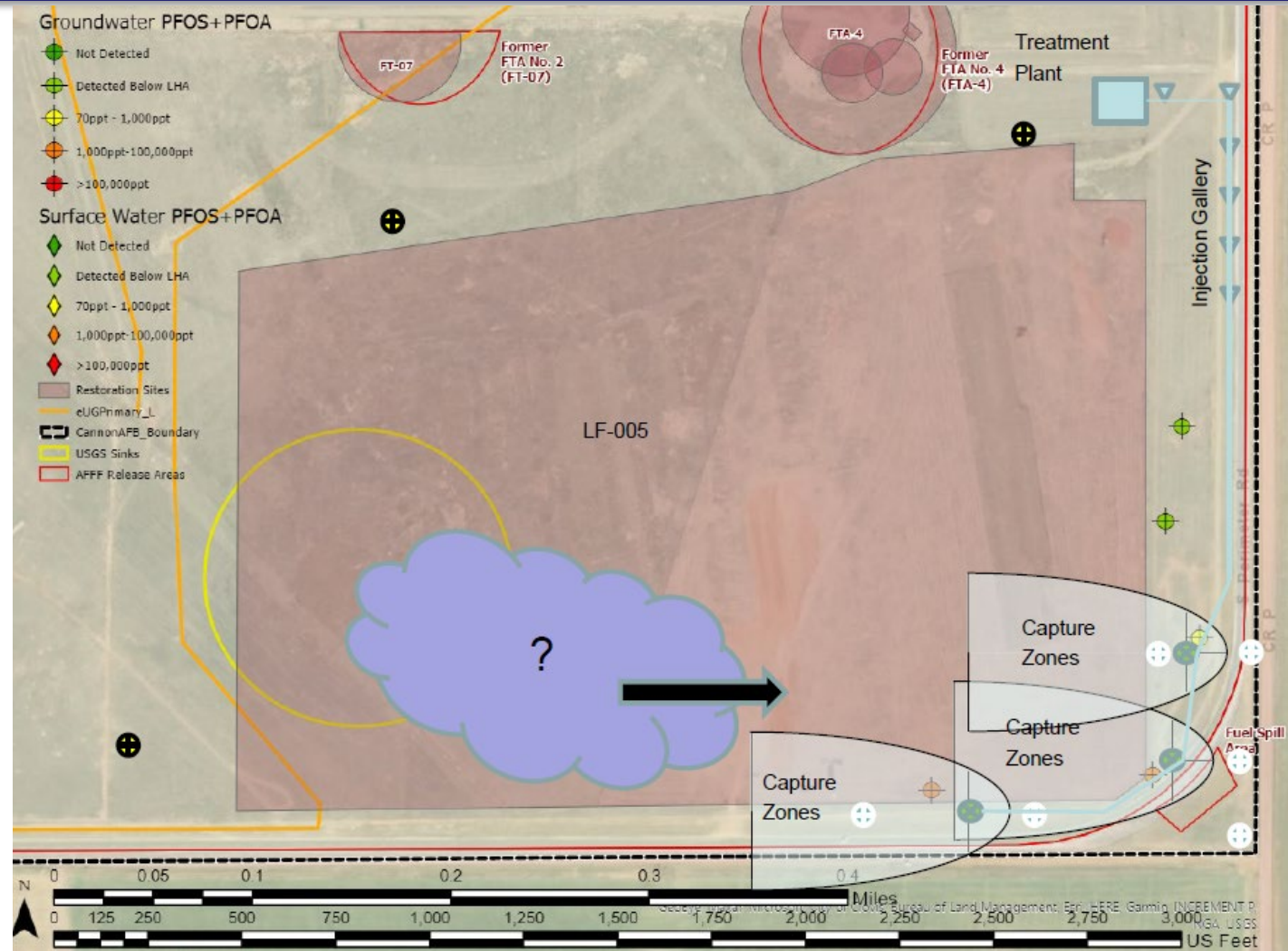
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# Pilot Study Previous Concept

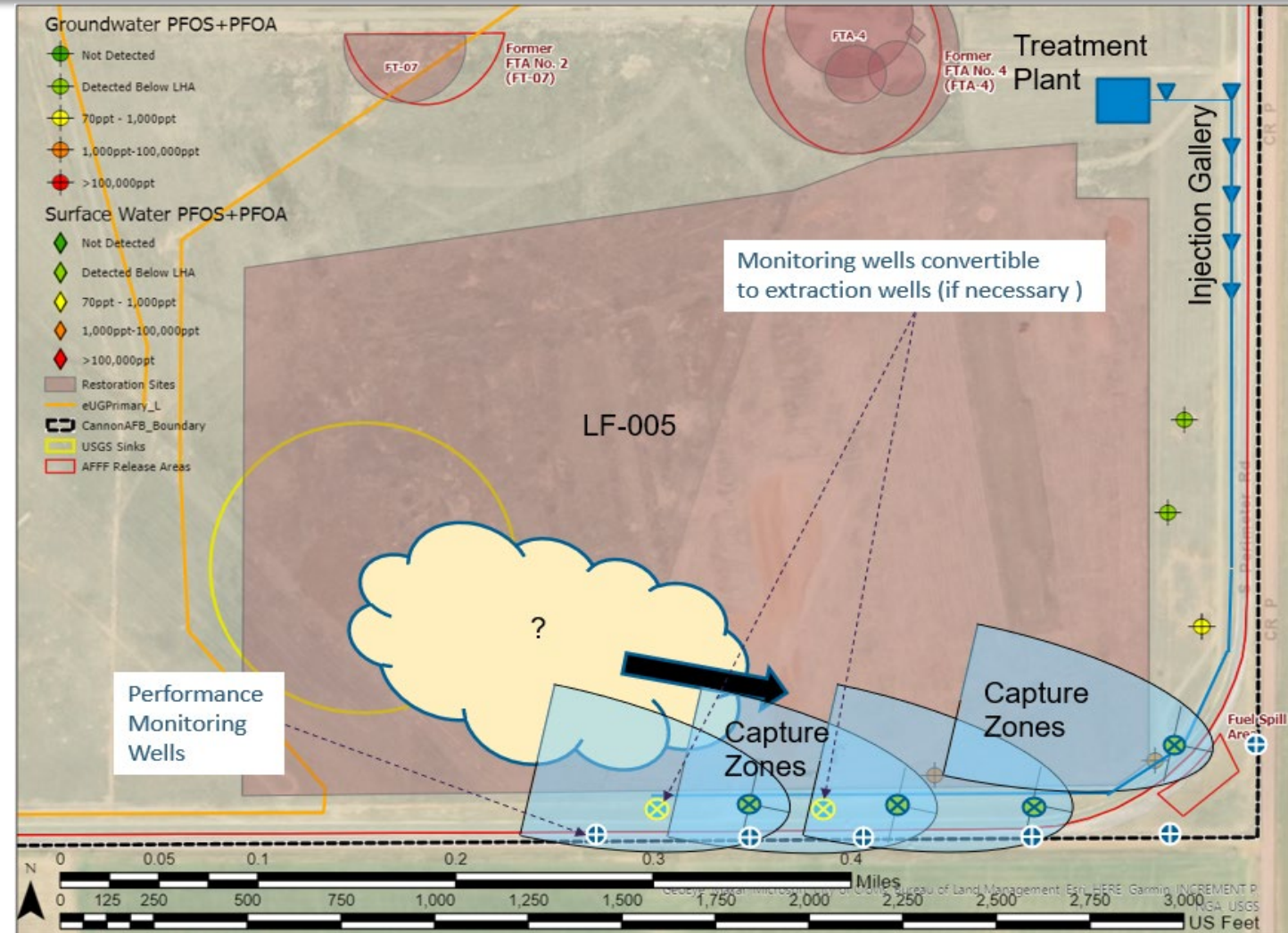


- 3 Extraction wells
- 6 Injection wells
- Design was further refined with additional data that has been collected



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- **Extraction wells**
  - 4 extraction wells with pumps
  - 2 extraction wells with no pumps used as monitoring wells
- **6 Injection wells**



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# Engineering Evaluation/Cost Analysis – Pilot Study Draft Timeline



- Award COMPLETED - 27 May 2021
- Initial Site Visit COMPLETED - 2 Jun 2021
- Kick-Off Meeting COMPLETED - 8 Jun 2021
- Sampling Event COMPLETED - 14 Jun 2021
- Treatability Study COMPLETED - Dec 2021
- Aquifer Test COMPLETED - Dec 2021
- Design/Work Plan IN PROGRSS- Mar 2022
  - Draft-Final Design (30-day NMED/EPA comment period) Est Nov 2022
- Construction Start - Dec 2022
- Operation Start - Dec 2023
- EE/CA Final - Jun 2024
  - (30-day NMED/EPA comment period)

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# Cannon AFB Community Engagement



## ■ Public Meetings

- Hosted Town Hall in Oct 2018
- Completed Restoration Advisory Board solicitation; not enough interest to convene a RAB, but enough interest to implement quarterly public meetings focused on PFAS
  - First meeting held in Mar 2021
  - To date, hosted 6 meetings with the last one in Jun 2022
  - Next Quarterly Public Meeting tentatively planned 14 Dec 2022

## ■ Additional Engagement

- Maintain website with Cannon specific PFAS information
  - <https://www.cannon.af.mil/Environmental/>
- Provided NDAA notifications to 11 dairy owners in Apr 2021
- Meetings held with state and local elected officials
  - Including: NM Senator's Heinrich and Lujan, Representative Leger-Fernandez, & Curry County Commissioners

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# Going Forward



- **EE/CA - Pilot Study**
  - **Design Phase Finalization estimated completion Nov 2022**
- **Remedial Investigation**
  - **Field work; continue monitoring well installation and soil sample collection**
- **Next Public Quarterly Update**
  - **Tentatively planned 14 Dec 2022; Currently determining a more secure virtual platform to allow the open communication**
- **Any questions regarding this presentation, please sent to [27SOCES.cannon.rpm@us.af.mil](mailto:27SOCES.cannon.rpm@us.af.mil)**

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# Additional Information



- **Admin Record Links to Cannon Air Force Base reports:**
  - Admin Record <https://ar.afcec-cloud.af.mil/>
  - PA: AR# 1941
  - SI: AR# 1938
  - Off base SI: AR# 1940
  - RRSE: AR# 2063
  - Treatability Work Plan: AR# 2072
  - RI Work Plan: AR# 2074
  - Aquifer Test Work Plan: AR# 2075

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# Additional Information



or in the meeting minutes. For questions regarding the Zoom software, visit [Zoom Help Center](#).

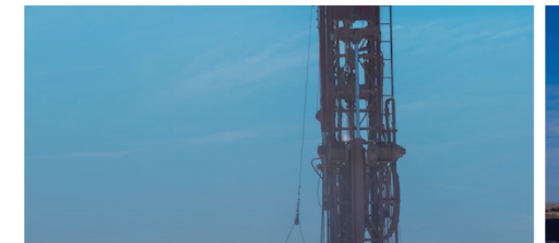
For more information or to review videos from previously recorded quarterly meetings, please visit: [www.cannon.af.mil/Environmental](http://www.cannon.af.mil/Environmental).

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## QUARTERLY MEETING PLAYBACK

- [March 2022 Cannon AFB PFOS/PFOA Virtual Meeting](#)
- [December 2021 Cannon AFB PFOS/PFOA Virtual Meeting](#)
- [September 2021 Cannon AFB PFOS/PFOA Virtual Meeting](#)
- [June 2021 Cannon AFB PFOS/PFOA Virtual Meeting](#)
- [March 2021 Cannon AFB PFOS/PFOA Virtual Meeting](#)
- [November 2020 Cannon AFB PFOS/PFOA Virtual Meeting](#)

## PROJECTS AND ENGAGEMENTS



## Virtual Meeting Slides

- [Cannon PFAS/PFOA FAQs](#)
- [2020 Drinking Water Quality Report](#)
- [Pilot study for groundwater treatment press release](#)

## RAB DOCUMENTS

- [2021 RAB Response MFR](#)
- [RAB Rule Handbook](#)
- [RAB FAQ's](#)

**ENVIRONMENTAL**

Contractors with Brice Construction Ltd. deploy an air rotary drilling rig as part of a pilot study civil engineering project during a per- and polyfluoroalkyl remedial investigation Nov. 18, 2021, at Cannon Air Force Base, New Mexico.

COMMUNITY MEETING INFORMATION

March 2022 Virtual Quarterly Community

DOPAA DOCUMENTS

◦ 2022 DOPAA For

<https://www.cannon.af.mil/Environmental/>

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# Common Acronyms



- **Administrative Record (AR)**
- **Aqueous Film Forming Foam (AFFF)**
- **Agency for Toxic Substances and Disease Registry (ATSDR)**
- **Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)**
- **Department of the Air Force (DAF)**
- **Department of Defense (DoD)**
- **Engineering Evaluation/Cost Analysis (EE/CA)**
- **Environmental Protection Agency (EPA)**
- **Food and Drug Administration (FDA)**
- **Lifetime Health Advisory (LHA)**

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# Common Acronyms



- **Parts Per Trillion (ppt)**
- **Per- and polyfluoroalkyl substances (PFAS)**
- **Perfluorooctanesulfonic acid (PFOS)**
- **Perfluorobutanesulfonic acid (PFBS)**
- **Perfluorooctanoic acid (PFOA)**
- **Preliminary Assessment (PA)**
- **Remedial Investigation (RI)**
- **Relative Risk Site Evaluation (RRSE)**
- **Site Inspection (SI)**
- **United States Geological Survey (USGS)**

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**Any question please contact [27SOCES.cannon.rpm@us.af.mil](mailto:27SOCES.cannon.rpm@us.af.mil)**