

Air Force Civil Engineer Center



Cannon AFB PFAS Public Update

15 June 2022



Agenda



- Remedial Investigation
- Engineering Evaluation/Cost Analysis – Pilot Study
- Going Forward
- Additional Information
- Common Acronyms
- Open Discussion

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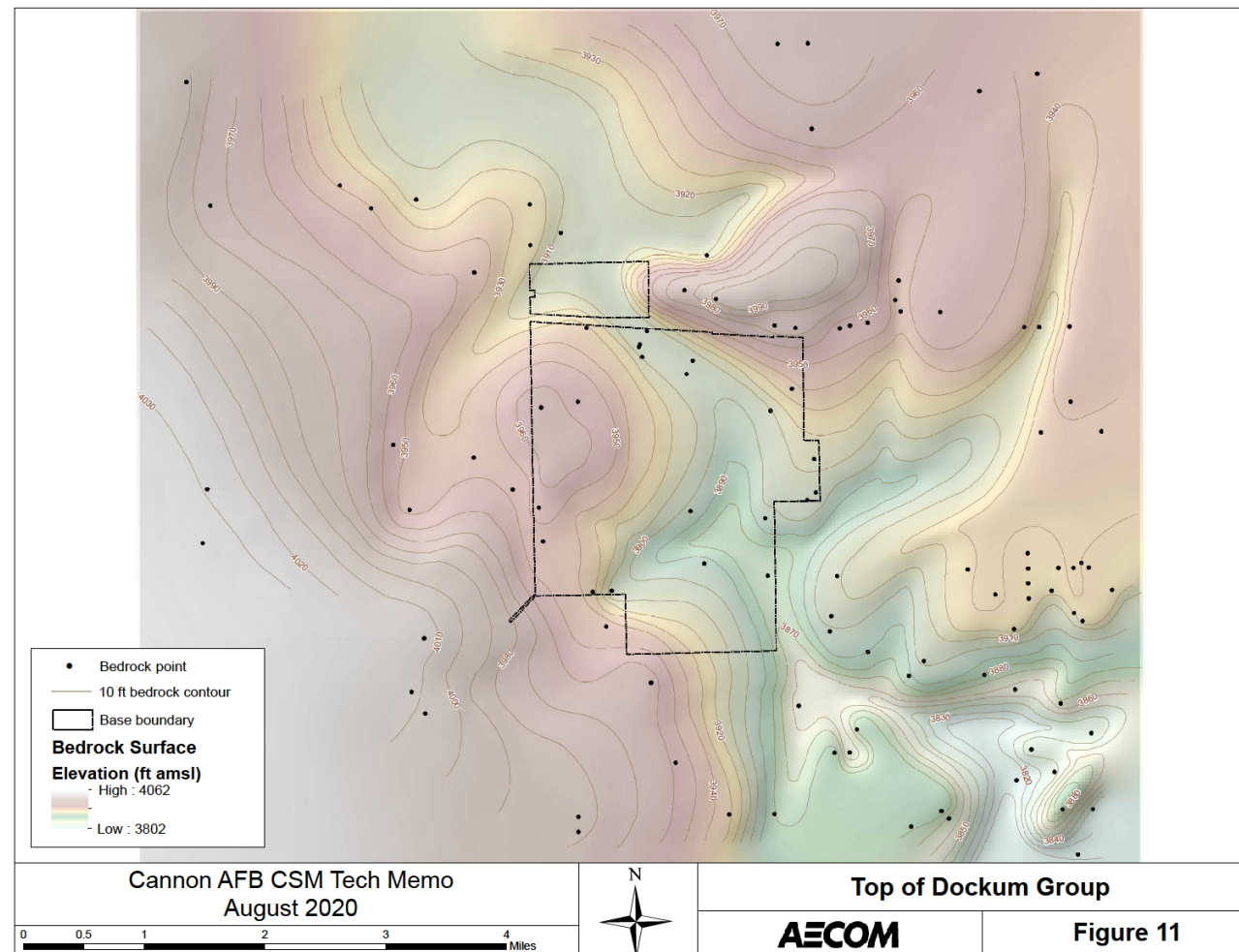
Remedial Investigation



- **Remedial Investigation (RI) Status – (Awarded 28 Aug 2020)**
 - **RI goal: define the nature and extent of impact in environmental media on and off base**
 - New groundwater monitoring wells
 - Soil borings
 - Surface soil samples
 - Suction lysimeters installed at source locations
 - **Work Plan completed – 1 Sep 2021**
 - **Field work in progress; samples completed to date**
 - Soil samples: on Base 65 – off Base 34
 - Groundwater samples: on Base 19 – off Base 34
 - Starting installation of 13 new monitoring wells on base; 4 installed, 1 in progress

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- **Paleo Channel**
 - Majority of water flow through aquifer



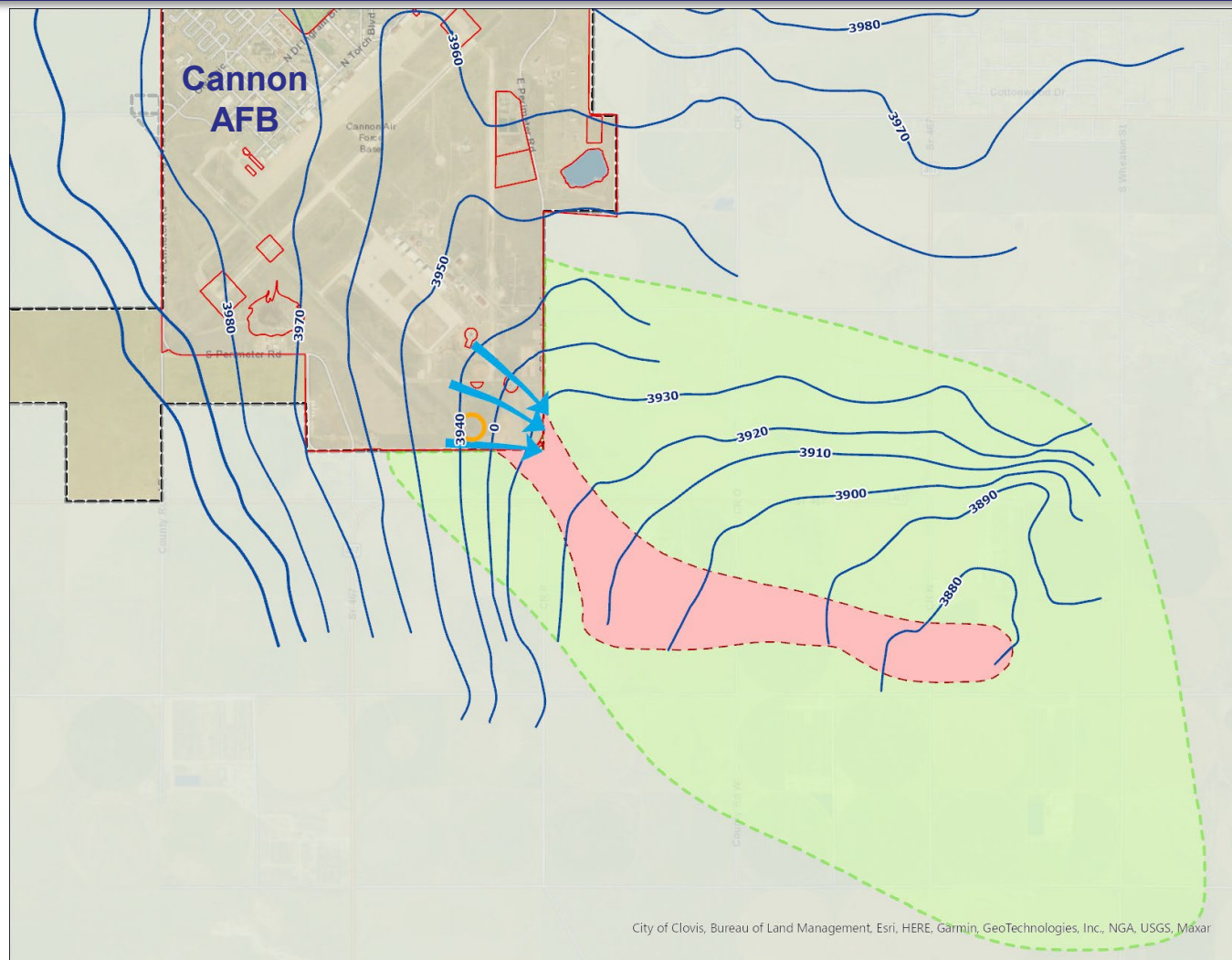
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Remedial Investigation



- **On base groundwater samples**
 - PFOS: 81 - 29,700 ppt
 - PFOA: 120 - 1700 ppt
 - PFBS: No exceedances last two sampling events
- **Off-base groundwater samples**
 - PFOS: 130 - 1,900 ppt
 - PFOA: 83 - 730 ppt
 - PFBS: No exceedances
- **Soil Samples**
 - PFOS, PFOA, and PFBS: No exceedances



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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 progress - Mar 2022
 - Draft-Final Design (30-day NMED/EPA comment period)
- Construction Start - Aug 2022
- Operation Start - May 2023
- EE/CA Final - Jan 2024
 - (30-day NMED/EPA comment period)

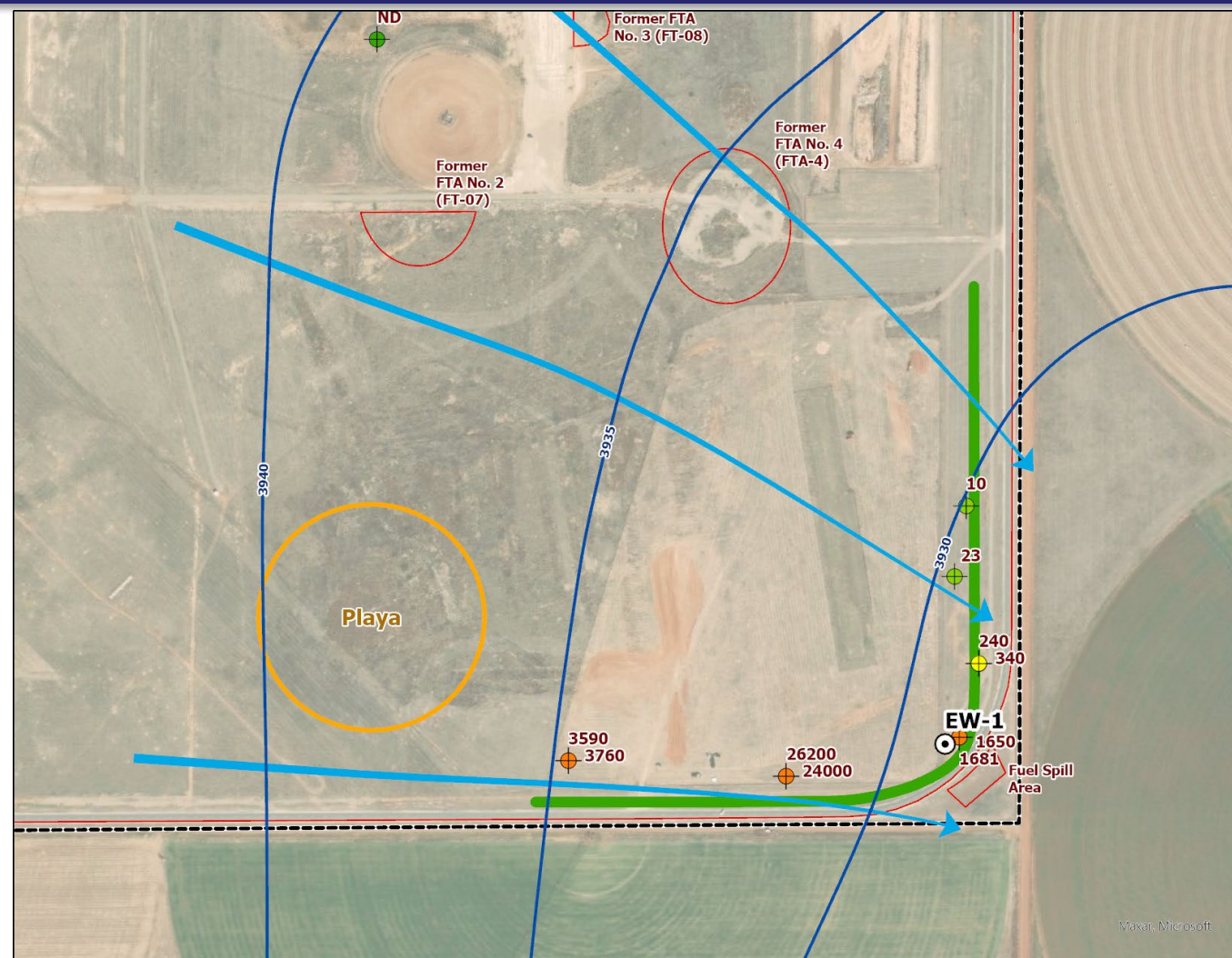
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Pilot Study Focus Area



- The Air Force has contracted to design and build a PFAS remediation system consisting of extraction and injection wells to control and remediate PFAS impacted groundwater



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Going Forward



- **EE/CA - Pilot Study**
 - **Design Phase**
- **Remedial Investigation**
 - **Field work**
- **Next Public Quarterly Update**
 - **Tentatively planned 14 Sep 2022**

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Additional Information



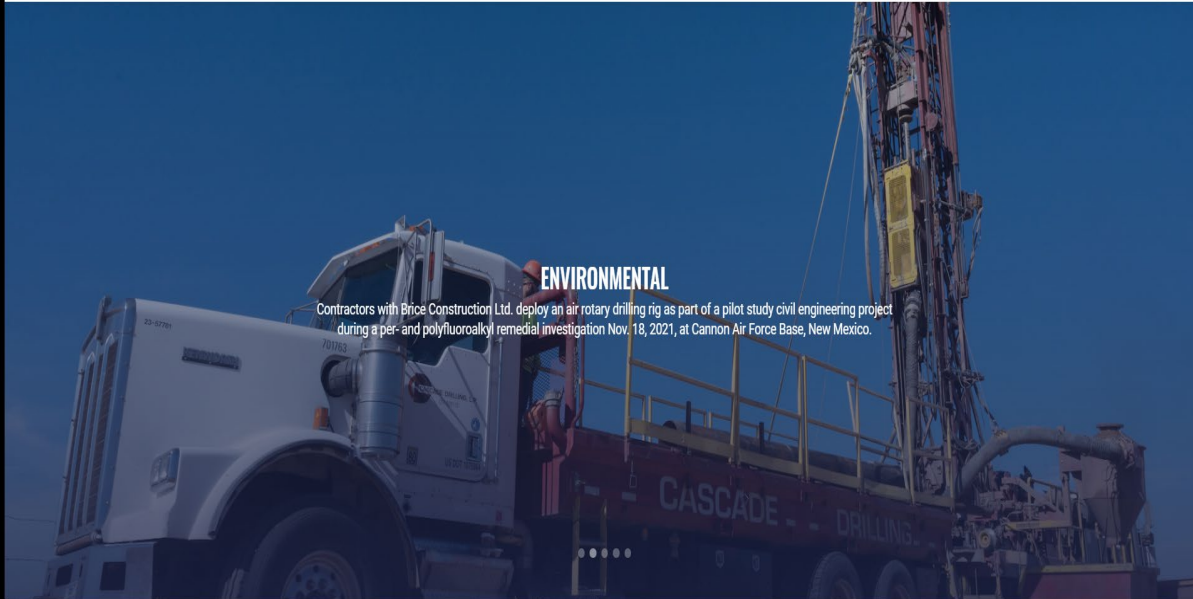
- **Admin Record Links to Cannon Air Force Base reports:**
 - Admin Record <https://ar.afcec-cloud.af.mil/>
 - PA: AR# 1941
 - SI: AR# 1938
 - Off base SI: AR# 1940
 - RRSE: AR# 2063
 - Treatability Work Plan: AR# 2072
 - RI Work Plan: AR# 2074
 - Aquifer Test Work Plan: AR# 2075

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Additional Information





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



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.

###

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

<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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Open Discussion



- **Questions**
 - **Environmental Protection Agency (EPA)**
 - **Agency for Toxic Substances and Disease Registry (ATSDR)**
 - **Brice**
 - **Bristol**
- **Topic idea for next meeting**

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Any question please contact 27SOCES.cannon.rpm@us.af.mil