

Air Force Civil Engineer Center



Cannon AFB PFAS Public Update

15 September 2021

Battle Ready...Built Right!



Agenda



- **Introductions**
- **Engineering Evaluation/Cost Analysis – Pilot Study**
- **Remedial Investigation**
- **PFAS Response Spending to Date**
- **Restoration Advisory Board**
- **Going Forward**
- **Additional Information**
- **Common Acronyms**



Introductions



- **Community Members**
- **Clovis, NM Representatives**
- **Environmental Protection Agency**
- **New Mexico Environmental Department**
- **Agency for Toxic Substances and Disease Registry**
- **Air Force Installation and Mission Support Center**
- **Air Force Civil Engineer Center**
- **Cannon Air Force Base**



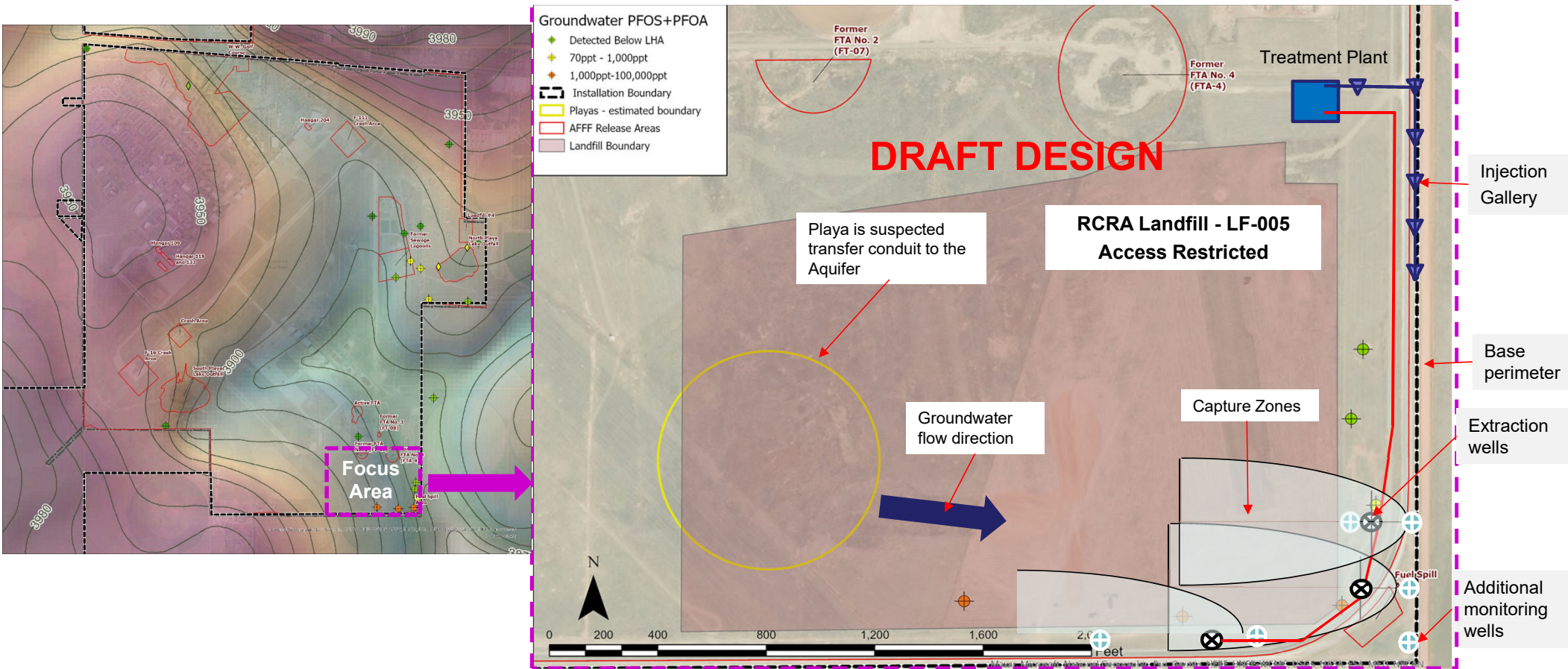
Engineering Evaluation/Cost Analysis – Pilot Study



- **Air Force awarded \$16.6M contract on 27 May 2021 for an Engineering Evaluation/Cost Analysis (EE/CA) – Pilot Study**
- **In accordance with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) framework, an EE/CA is required to satisfy environmental review requirements for interim responses**
 - **EE/CA identifies objectives of potential interim responses and evaluates effectiveness, feasibility and cost of various alternatives**
- **The Pilot Study treatment system is entirely on base**
- **The design allows for flexibility**
 - **Can be expanded to incorporate additional treatment options resulting from future investigations**



Engineering Evaluation/Cost Analysis – Pilot Study Draft Design





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**
- **Aquifer Test in progress - Sep 2021**
- **Treatability Study in progress - Sep 2021**
- **Design/Work Plan - Jan 2022**
 - (30-day NMED/EPA comment period)
- **Construction Start - Mar 2022**
- **Operation Start - Apr 2023**
- **EE/CA Final - Jan 2024**
 - (30 day NMED/EPA comment period)



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 to commence, contractors currently mobilizing**
 - **First field work to collect off base well samples and soil samples**
 - **Landowners must give permission before samples can be collected**



PFAS Response Spending to Date



- **Expenditures to date \$31,337,869**
 - **Preliminary Assessment (PA): \$38,754**
 - **Site Inspection (SI): \$2,024,231**
 - **Expanded Site Inspection (ESI): \$505,000**
 - **Remedial Investigation (RI): \$10,377,619**
 - **United States Geological Survey (USGS) work to understand groundwater flow: \$735,000 in FY20, \$1,065,000 in FY21**
 - **Engineering Evaluation/Cost Analysis (EE/CA) – Pilot System: \$16,592,265**



Restoration Advisory Board



- **17 Feb 2021 Cannon AFB published a Public Notice for Solicitation of Interest in the establishment of a Restoration Advisory Board (RAB)**
- **RAB covers all environmental restoration activities at the base**
- **Interest received was specific to the PFAS investigation**
- **Determination made to not establish a RAB at this time**
- **Ongoing Quarterly Public Updates focused on PFAS provide the community opportunity for involvement, and participation in the investigation/cleanup process**
- **Quarterly Public Updates are publicly accountable and made available at the address below**
- **Signed RAB Memorandum for Record can be found at <https://www.cannon.af.mil/Environmental/>**



Going Forward



- **EE/CA - Pilot Study**
 - Aquifer Test
 - Treatability Study
- **Remedial Investigation**
 - Field work - contractors currently mobilizing
 - First field work to collect off base well samples and soil samples
 - Landowners must give permission before samples can be collected
- **Next Public Quarterly Update**
 - Tentatively planned 15 Dec 2021



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 to be uploaded once any PII removed
 - Aquifer Test Work Plan: AR# 2075
- **DAF Response**
<https://www.afcec.af.mil/WhatWeDo/Environment/Perfluorinated-Compounds/>



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)**



Common Acronyms



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



**Any question please contact
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