

# **Air Force Civil Engineer Center**

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## **Fire Training Area– 1 (FTA-1) PFAS Groundwater Interim Remedial Action**

**Joint Base Cape Cod  
Cleanup Team Meeting  
27 Aug 2025**



# Overview

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- **Background**
  - **Ashumet Valley (AV) Legacy Groundwater Remedy**
  - **Ashumet Valley/FTA-1 PFAS**
- **Proposed FTA-1 PFAS Groundwater Interim Remedial Action**





# Ashumet Valley/FTA-1 PFAS

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- The primary source of per- and polyfluoroalkyl substances (PFAS) to Ashumet Valley is from FTA-1
  - PFAS plume called “FTA-1” to distinguish it from AV Legacy
- FTA-1 operated from 1958 – 1985
  - Use of aqueous film forming foam (AFFF or “A Triple F”) with PFAS began in 1970
- Additional AFFF release in 1997
  - AFFF used to suppress a fire during thermal treatment of the FTA-1 soils to remove volatile organic compound contamination



# Ashumet Valley/FTA-1 PFAS

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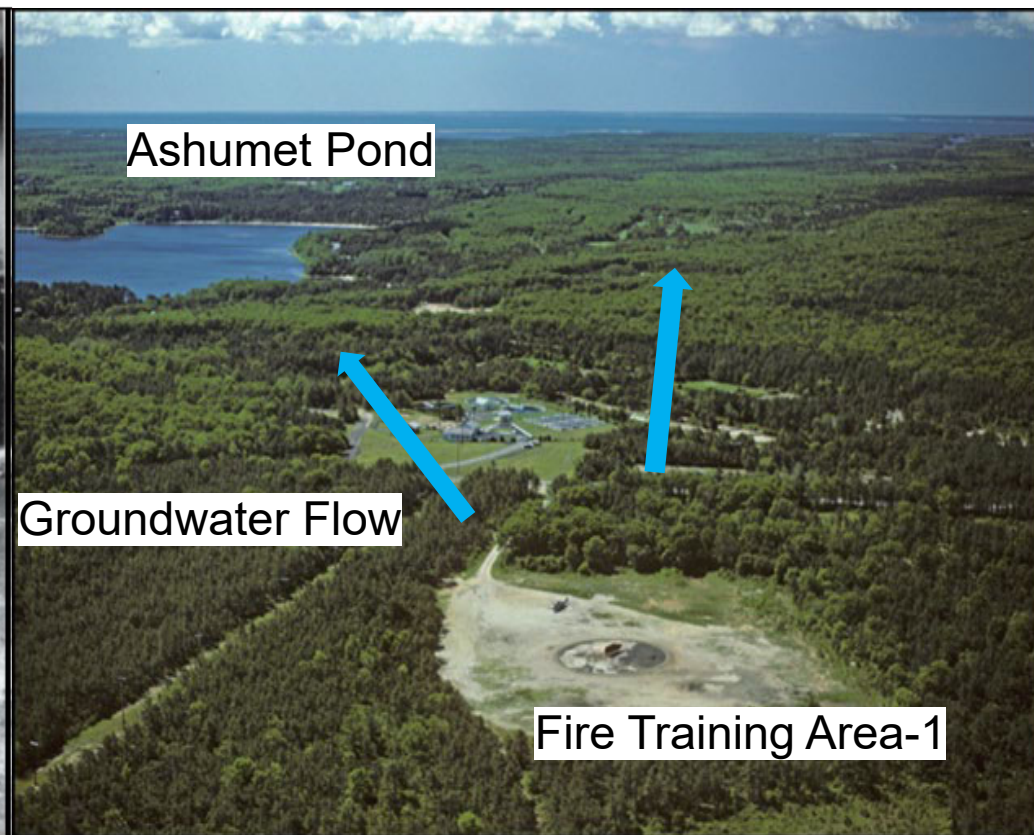


- AV (FTA-1) PFAS Supplemental Remedial Investigation (RI) completed Mar 2024
  - Addressed Groundwater and Soil
- AV (FTA-1) PFAS Revised Draft Supplemental Feasibility Study (FS) for Groundwater planned to be issued in late 2026
- FTA-1 PFAS Soil being combined with other on-base PFAS source areas in future FS (post-2026)





# Ashumet Valley/FTA-1 PFAS



# FTA-1 PFAS Extent

## PFAS Detections in Groundwater

- Above PFAS MCL\* or MassDEP PFAS6 MMCL\*\*
- Below PFAS MCL and MassDEP PFAS6 MMCL
- No Detection

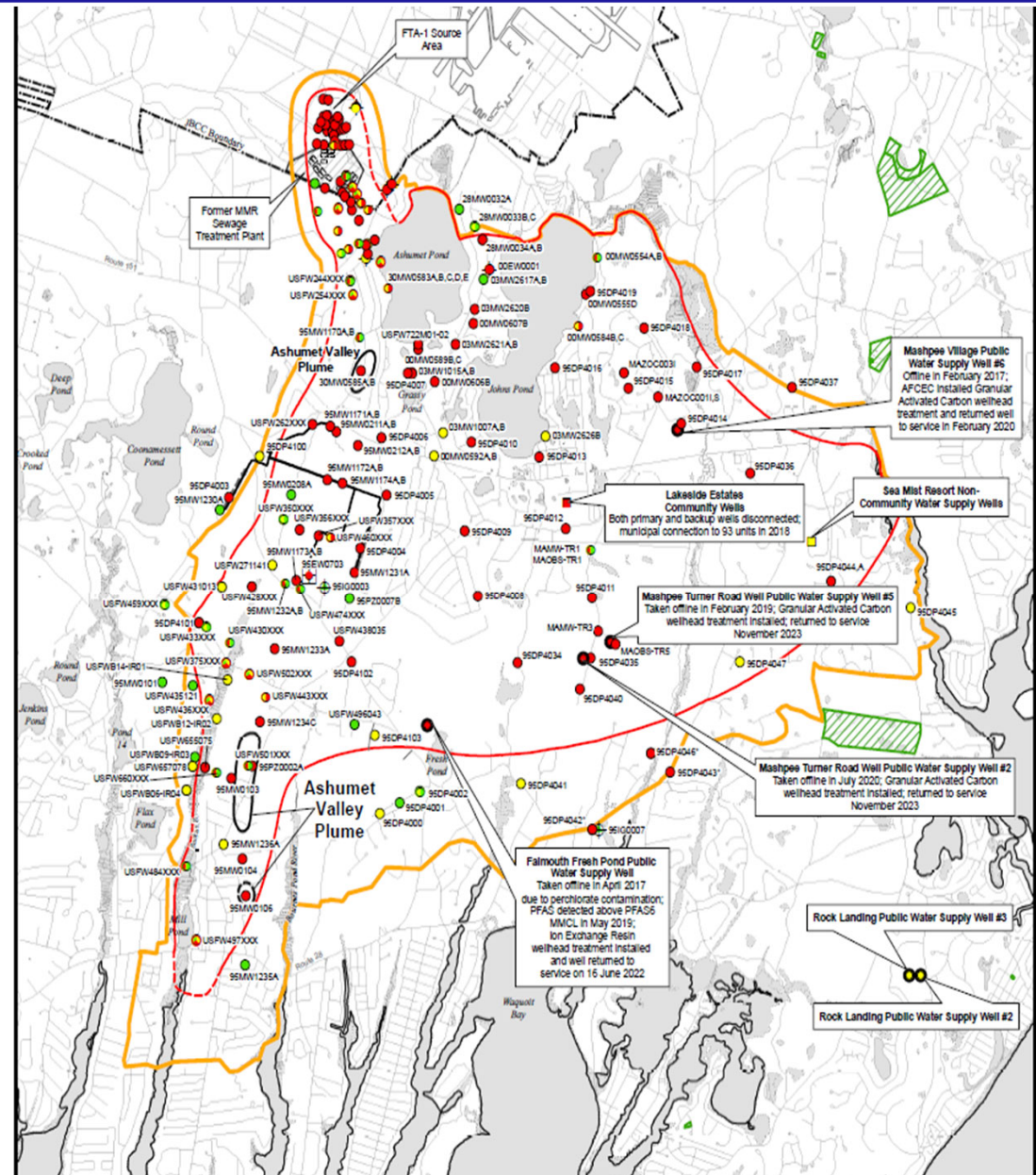
— FTA-1 PFAS Plume Boundary

— FTA-1 Land Use Control Area

Exposure to PFAS-contaminated groundwater addressed with bottled water, in-house treatment systems, connections to public water supply, and treatment systems on municipal wells.

\*MCL = maximum contaminant level

\*\*MMCL = Massachusetts maximum contaminant level







# Ashumet Valley/FTA-1 PFAS



- PFAS is impacting Ashumet Pond and Johns Pond
- Do not eat any fish
- Safe for swimming
  - Avoid swallowing water and contact with foam

**PUBLIC HEALTH ADVISORY**

**Ashumet Pond**  
Falmouth, Mashpee



**Fish Contaminated with Mercury & Per and Polyfluoroalkyl Substances (PFAS)**

CHILDREN UNDER 12; AND PEOPLE WHO ARE NURSING, PREGNANT, OR MAY BECOME PREGNANT:	• Do not eat any fish
ALL OTHER PEOPLE:	• Do not eat any fish

Issued by the Massachusetts Department of Public Health. For additional information, please scan the QR code or call 617-624-5757.



**PUBLIC HEALTH NOTIFICATION**

**ASHUMET POND**  
Falmouth / Mashpee



**PFAS\* DETECTED AT PUBLIC BEACH**  
**SWIMMING NOT A HEALTH RISK**

**AVOID SWALLOWING WATER**  
**AVOID CONTACT WITH FOAM (if present)**

\*Per- and Polyfluoroalkyl Substances (PFAS)

SCAN THE QR CODE FOR MORE INFORMATION  
ON PFAS AND SWIMMING OR CONTACT



Environmental Toxicology Program  
Massachusetts Department of Public Health  
617-624-5757





# Proposed FTA-1 PFAS Groundwater (GW) Interim Remedial Action



- Issue an Explanation of Significant Differences (ESD) to modify current Ashumet Valley (FTA-1) Groundwater (GW) remedy
- Use Memorandum to the File which evaluates remedial alternatives for PFAS as basis of interim remedial action
- ESD will:
  - Add four PFAS as GW Contaminants of Concern: PFOS, PFOA, PFHxS, and PFNA\*
  - Add Remedial Action Objectives to prevent residential exposure to PFAS in GW/Fish and to manage migration of PFAS plume
  - Implement active treatment in two plume areas as an interim remedy
  - Establish a formal Land Use Control (LUC) Program for FTA-1 PFAS in GW and Fish
- Estimated total cost for FTA-1 PFAS Interim Remedy: \$81.4M

\* PFOS = perfluorooctane sulfonic acid, PFOA = perfluorooctanoic acid, PFHxS = perfluorohexane sulfonic acid, PFNA = Perfluorononanoic acid

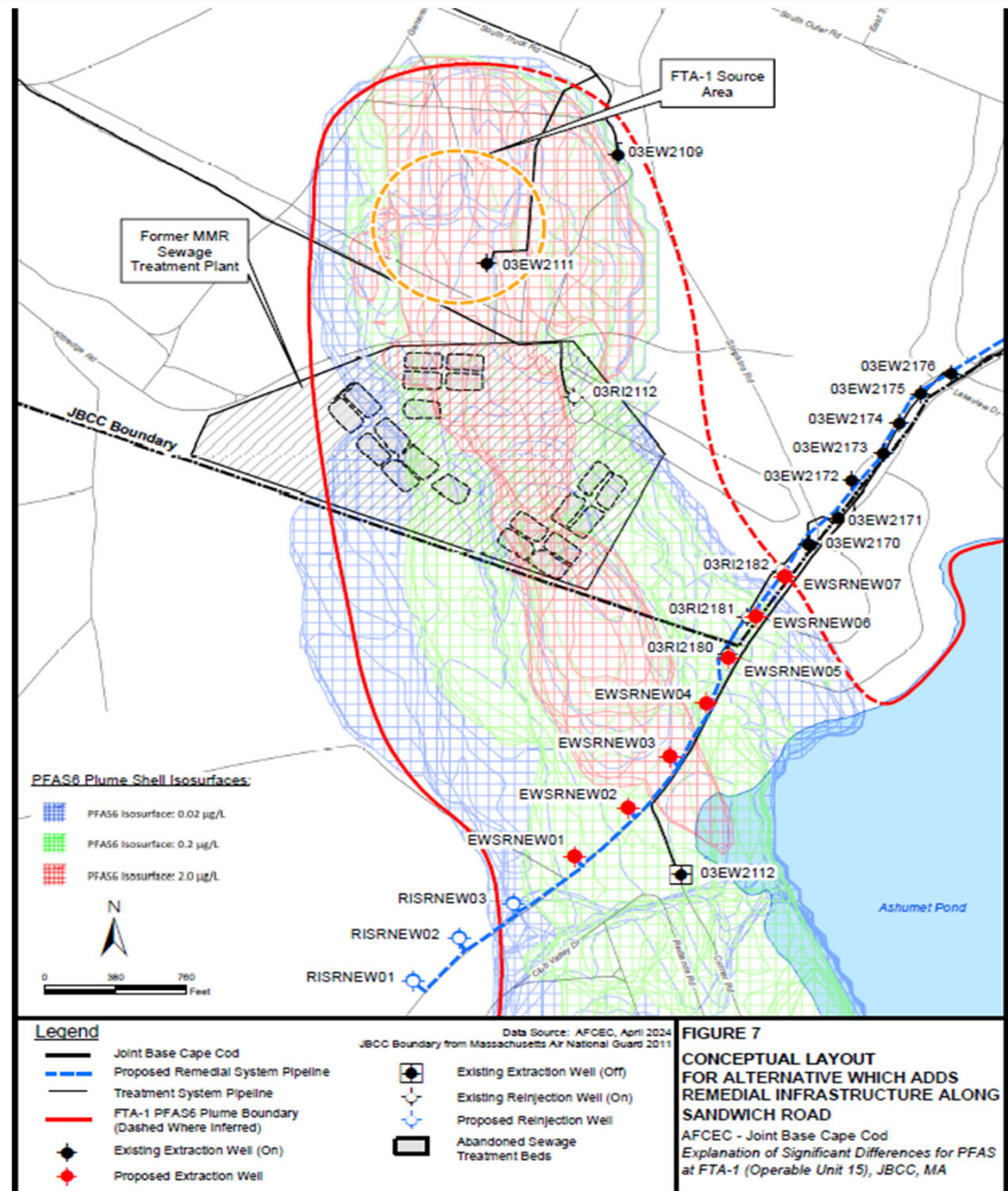




# FTA-1 PFAS Sandwich Rd Extraction Fence



- Install 7 new extraction wells and 3 new reinjection wells
- Total flow rate estimated at 1,350 gallons per minute (gpm)
- Water to be treated at Sandwich Road Treatment Facility (Granular Activated Carbon [GAC])



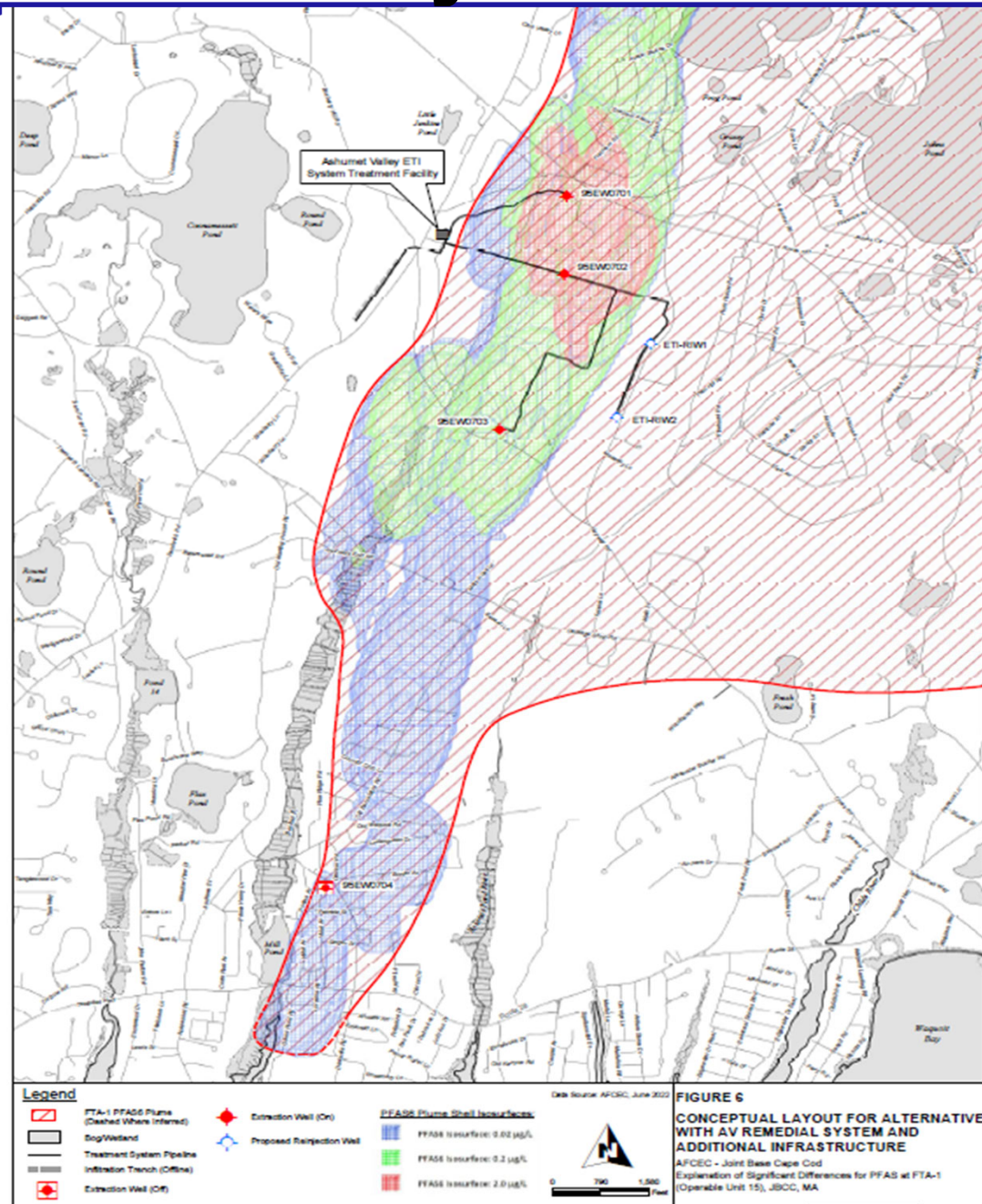




# FTA-1 PFAS Restart Ashumet Valley Treatment System



- Restart existing 3 extraction wells
- Install 2 new reinjection wells
- Total flow rate estimated at 1,400 gpm
- Treatment at existing Ashumet Valley system (GAC)







# Proposed FTA-1 PFAS GW Interim Remedial Action Status

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## ESD Status

- Sep 2025: Estimated Completion of Draft Final FTA-1 ESD
  - To be followed by 30-day public comment period
  - Issue Final ESD with response to public comments

## Design/Construction Status

- Sep 2024: Awarded contract for design of FTA-1 PFAS Interim Remedy
- Aug 2025: Awarded contract modification for construction
  - Aug 2025: Draft Design/Remedial Action Workplan due to AFCEC
  - Construction schedule pending
- AFCEC will continue to update the JBCCCT regarding the design/construction of interim remedial action





# Ashumet Valley Groundwater

## Temporal Cleanup Progress

