



Barnes Air National Guard (ANG) Base Restoration Advisory Board Meeting #8 July 25, 2024

DRAFT FINAL



Agenda



- 6:00 PM Agenda Review and Hybrid Meeting Logistics
- 6:05 PM Welcome and Introductions
- 6:10 PM RAB Business
- 6:25 PM Environmental Restoration Program Status Update
- 7:10 PM Public Questions and Comments
- 7:25 PM Closing Remarks
- 7:30 PM Adjourn



Hybrid Meeting Logistics

Amy Brand

Jacobs

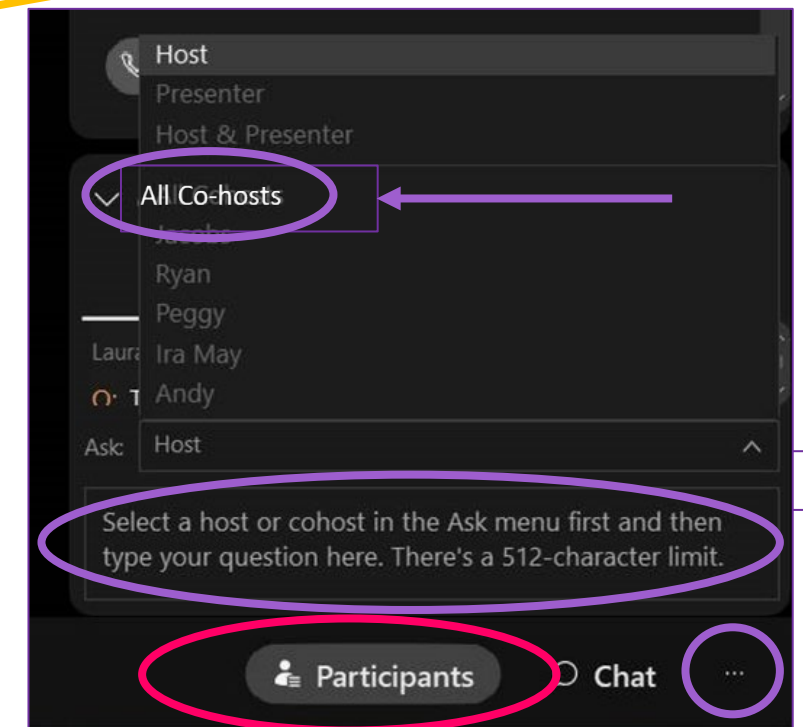
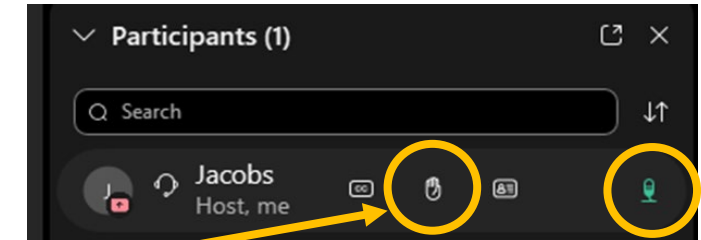
RAB Facilitator



Webex Basics – Computer



- Video – OFF except for presenters
- Open participants list
- To ask a question:
 - RAB Members - Raise hand to be called on to speak
 - Scroll over your name in the participant list and click on hand symbol
 - Unmute yourself when called on
 - Public participants - Type a question to “all co-hosts” in the Q&A panel
 - Click on 3 dots in lower right corner, choose Q&A
 - Select “all co-hosts” and type question
 - Questions will be answered at the end of the meeting





Webex Basics – Telephone Participants



- Follow along on slide presentation (emailed or download from 104th Fighter Wing website at <https://www.104fw.ang.af.mil/About/Restoration-Advisory-Board/>)
- Use your phone mute button when not speaking.
- Dial *3 to raise hand to be called on to speak after the presentation
 - Host will unmute you after seeing the raised hand
 - You will then receive a prompt to dial *6 on the phone to unmute yourself
 - Unmute and identify yourself when asking a question or making a comment.



Meeting Guidelines



- RAB Members
 - Ask questions at the end of each topic
 - Raise hand to be called on to speak
 - Introduce yourself so that everyone (in room and online) knows who is speaking
 - Please observe a 2-minute limit to enable other RAB members to participate.
- Public Participants
 - Submit questions in writing addressed to “all co-hosts”
 - Questions will be read and addressed at the end of the meeting
 - Public questions by phone may be asked verbally at the end of the meeting by pressing *3 to raise your hand



Welcome and Introductions

Col. David Halasi-kun

Kathleen Hillman



Welcome and Introductions



Air National Guard Team

Col. David Halasi-kun (Base Co-Chair)

Christopher Brown, National Guard Bureau

Jennifer Baker, 104th FW Environmental Coordinator

Contractors: BB&E, Jacobs (Amy Brand, RAB facilitator)

Community RAB Members

Kathleen Hillman, Community Co-Chair

Mary Ann Babinski

Chris Clark

~~Nabil Hannoush~~

Kristen Mello

Mary O'Connell

Jane Okscin

Representative Kelly Pease

Dawn Thomas

Senator John Velis

Regulatory Contact

Caprice Shaw, Massachusetts Department of Environmental Protection (MassDEP)



Welcome and Introductions



U.S. Army Corps of Engineers (USACE) Team

Amanda Martin, Project Manager/ Technical Lead

Grace Greenberg, Risk Assessor

Jennifer Apell, PhD, Project Chemist

Mike Narcisi, Wetland Ecologist/Soil Scientist

Dan Folan, PhD, PG, LSP, Geologist/Hydrogeologist

SRS-Battelle JV Team (USACE Contractor)

Andrew Barton, Battelle, Project Manager

James Griffin, SRS, Alternate Project Manager



RAB Business

Amy Brand

Jacobs

RAB Facilitator



Meeting Summaries

- Draft meeting summary from RAB Meeting #7 (April 2024)
 - Emailed to the RAB July 5 – any comments?
 - Draft posted on the 104th FW website:
<https://www.104fw.ang.af.mil/About/Restoration-Advisory-Board/>



Upcoming Meetings

- Dates
 - Agreed on fourth Thursday of the month, every 3 months: January, April, July, October
 - Adjustments to be made when needed
 - Upcoming meetings: October 24, 2024
 January 30, 2025
 April 24, 2025
- Meeting location
 - Westfield Athenaeum accessibility



Technical Assistance for Public Participation (TAPP) Grant

- FY24 TAPP Grant
 - RAB members voted by majority to pursue a TAPP focused on potential human health impacts
 - Funding approved, working acquisition package with award in September



RAB Member Discussion



- Please raise your hands and unmute yourself when recognized.
- Introduce yourself at the beginning of your question or comment.
- Please limit questions to 2 minutes to give other RAB members an opportunity to participate.



Environmental Restoration Program Status Update

Christopher Brown
National Guard Bureau

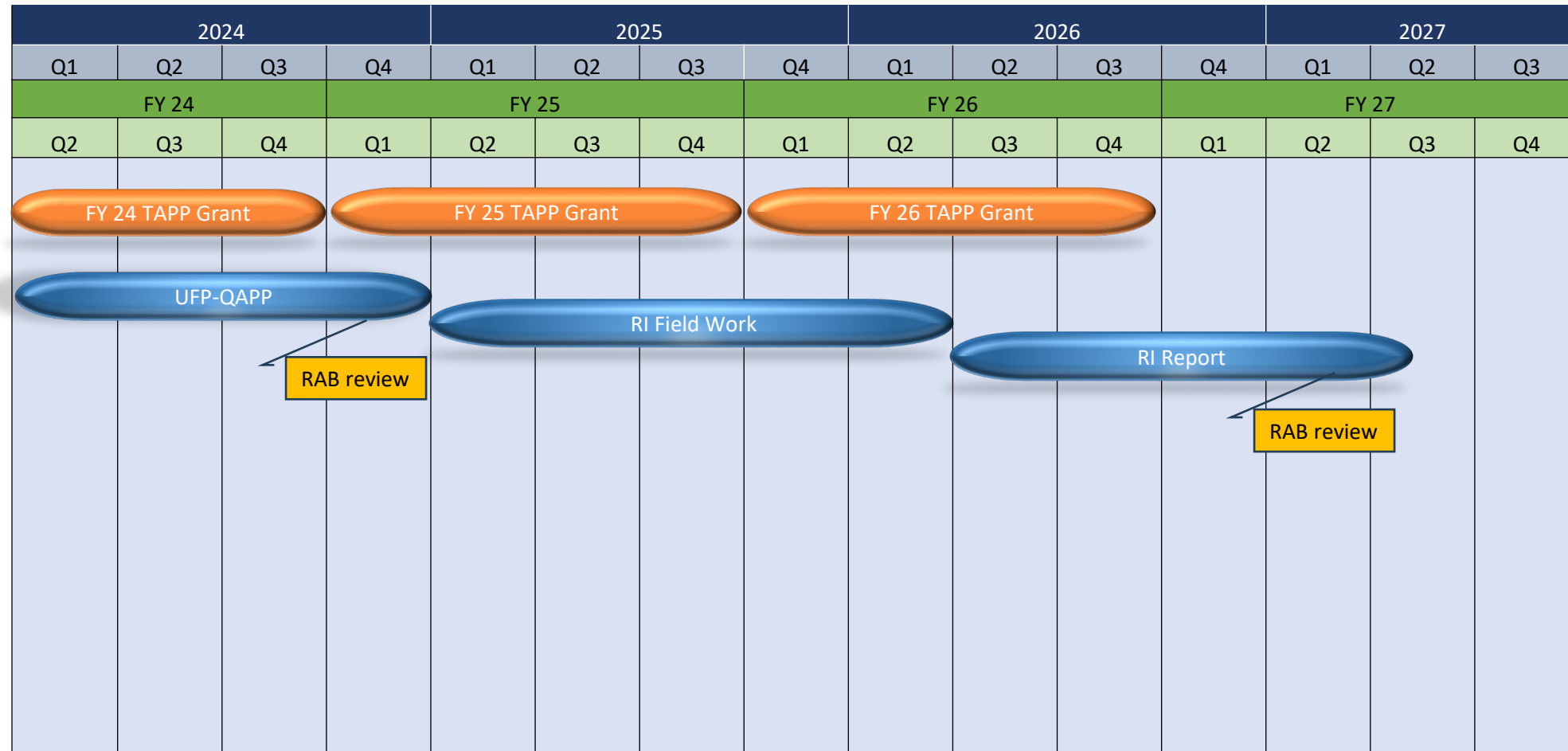


Environmental Restoration Program



- Site 2 Current Status
 - Long term monitoring, working towards a Permanent Solution Statement (PSS)
 - A Lease Amendment will be required to incorporate conditions
- PFAS Remedial Investigation (RI)
 - Uniform Federal Policy-Quality Assurance Project Plan (UFP-QAPP), Late Fall 2024
 - Start of field sampling activities, Late Fall 2024
 - Courtesy notification sent to NCRS in relation to Arm Brook Rehabilitation Project







PFAS Remedial Investigation (RI) Data Quality Objectives (DQOs)



- The primary objective of the PFAS RI is to define the extent of DoD-related PFAS, identify potential exposure pathways, and assess associated risks to determine if a remedial action is required.
- Project data quality objectives (DQOs) are established in the RI planning document, the Unified Federal Policy Quality Assurance Project Plan (UFP-QAPP), to document the systematic planning process for collecting data to meet the overall objectives.
- The DQOs will dictate the RI field sampling approach to ensure the appropriate medium-specific samples are collected to satisfy the DQOs.

Note: This is currently the first phase of the RI. Additional data collection is anticipated and will be scoped based on the findings of the initial results.

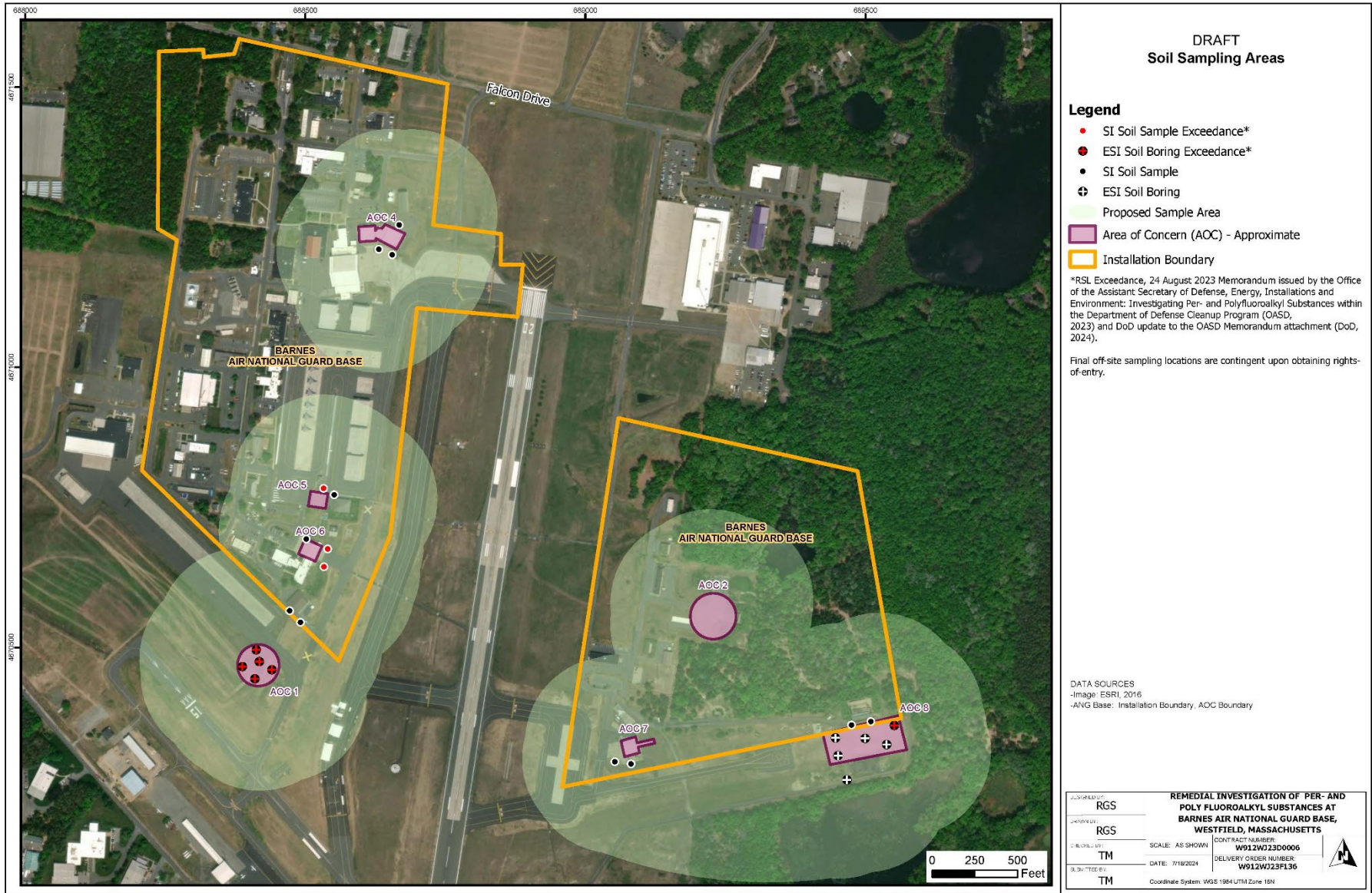


PFAS RI DQOs for Soil Sampling

- DQOs have been established and data will be collected to answer the following questions associated with risk from exposure to PFAS in soil:
 - **Q1:** What is the spatial and vertical extent of Barnes ANGB related PFAS contamination in soil at the AOCs?
 - **Q2:** Are PFAS in soil at the Site contributing to groundwater concentrations of PFAS beneath the Site?
- Answers to the first two questions will assist in answering the following question:
 - **Q3:** How much Barnes-related PFAS are potential receptors (primarily human receptors – commercial/industrial and construction workers) exposed to in soil at the Site?



PFAS RI AOCs and Soil Sampling Areas





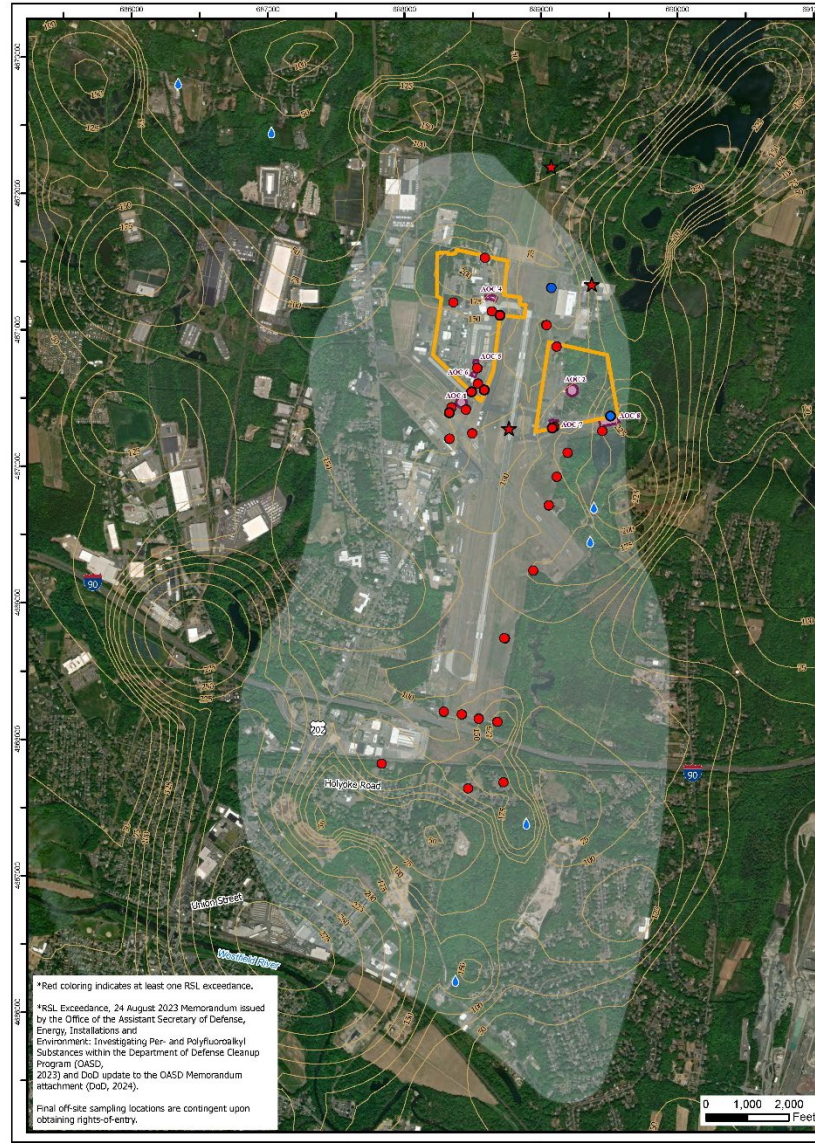
PFAS RI DQOs for Groundwater Sampling



- DQOs have been established and data will be collected to answer the following questions associated with risk from exposure to PFAS in surface water:
 - **Q1:** What is the spatial and vertical extent of Barnes ANGB related PFAS contamination in groundwater?
 - **Q2:** Are PFAS in groundwater contributing to surface water concentrations of PFAS in the surface water bodies near the Site?
 - **Q3:** Are PFAS sources not related to Barnes ANGB contributing to concentrations in groundwater upgradient, adjacent to, and downgradient of the Site?
- Answers to the first three questions will assist in answering the following question:
 - **Q4:** How much Barnes-related PFAS are potential receptors (human receptors – hypothetical on-Site and off-Site residents) exposed to in groundwater?



PFAS RI Groundwater Sampling Areas



*Red coloring indicates at least one RSL exceedance.
*RSL Exceedance, 24 August 2023 Memorandum issued by the Office of the Assistant Secretary of Defense, Energy, Installations and Environment: Investigating Per- and Polyfluoroalkyl Substances within the Department of Defense Cleanup Program (OASD, 2023) and DoD update to the OASD Memorandum attachment (DoD, 2024).
Final off-site sampling locations are contingent upon obtaining rights-of-entry.

DRAFT Groundwater Sampling Areas

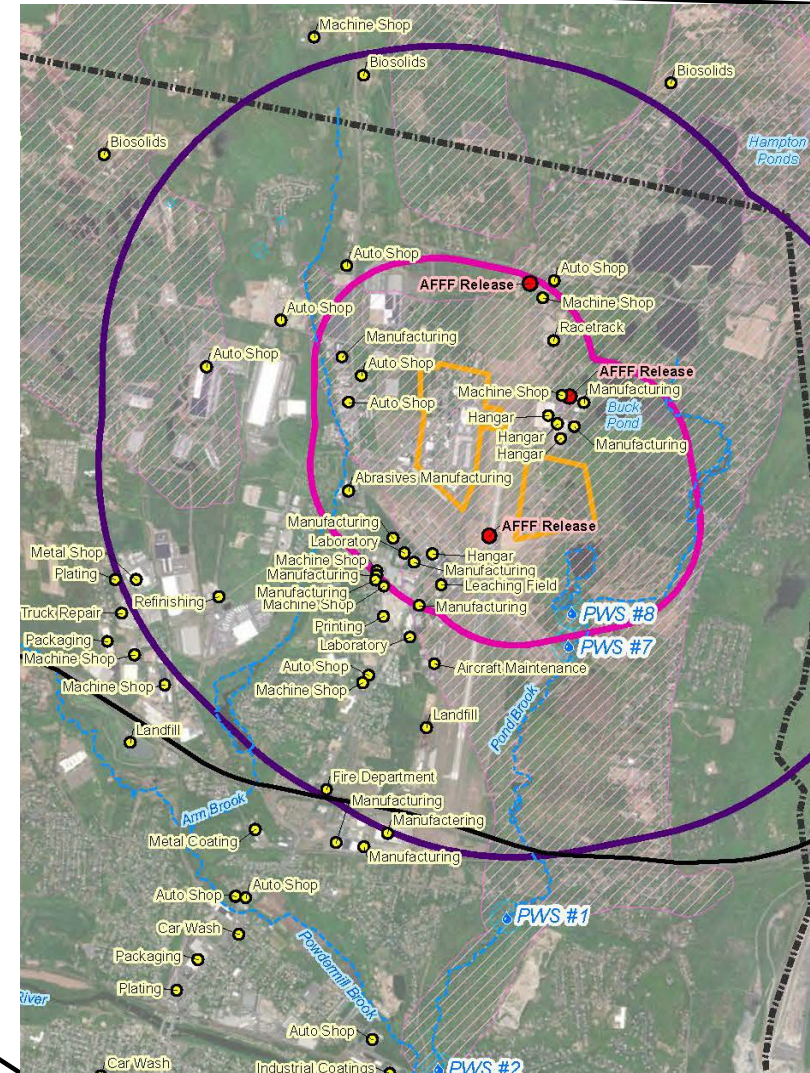
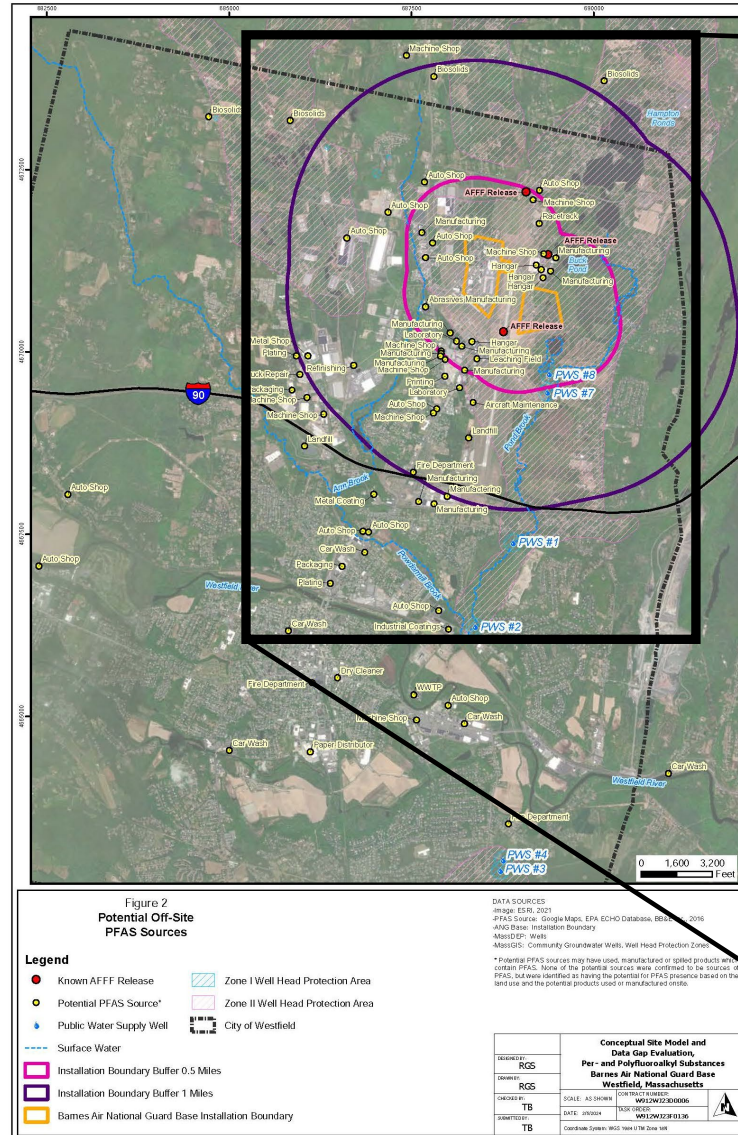


Legend

- ★ Known AFFF Release
- Existing Groundwater Monitoring Well
- Existing Groundwater Monitoring Well with Historical Exceedance* to be Resampled
- Community Groundwater Well
- Bedrock Contours - 25 ft Interval (Feet below ground surface)
- Proposed Vertical Aquifer Sample Area
- Installation Boundary
- Area of Concern (AOC) - Approximate



Potential Off-Site PFAS Sources





PFAS RI DQOs for Surface Water Sampling



- DQOs have been established and data will be collected to answer the following questions associated with risk from exposure to PFAS in surface water:
 - **Q1:** Are PFAS in groundwater contributing to surface water concentrations of PFAS in the surface water bodies near the Site?
 - **Q2:** What is the extent of Barnes ANGB related PFAS contamination in the various surface water bodies?
 - **Q3:** Are PFAS sources not related to Barnes ANGB contributing to concentrations in surface water bodies upstream, adjacent to and downstream of the Site?
- Answers to the first three questions will assist in answering the following question:
 - **Q4:** How much Barnes-related PFAS are potential receptors (primarily human receptors – recreators and trespassers) exposed to in surface water bodies adjacent to and downstream of the Site?



Surface Water Sampling/Monitoring Approach



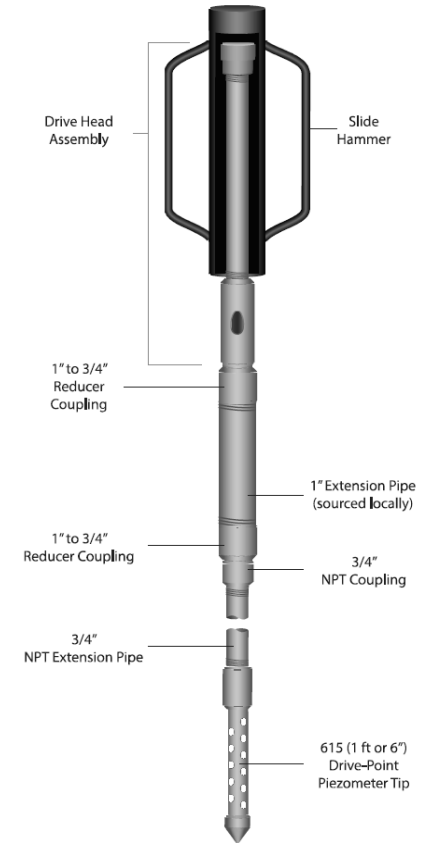
- Surface water samples will be collected from the midpoint of the water column, on the side of the surface water body closest to known/suspected PFAS sources, based on the following rationale:
 - Flowing water bodies, like those present near Barnes ANGB, are generally well mixed
 - A water-surface PFAS microlayer is negligible, and any potential affect of such a layer (if it exists) cannot be measured with current analytical precision
 - The midpoint of the surface water column at the edge of the surface water body is the most representative human (and fish) exposure point
 - The edge of the surface water body closest to known/suspected PFAS sources is where PFAS-impacted groundwater could potentially discharge
- Surface water samples will be collected upstream, downstream and adjacent to known/suspected Barnes ANGB PFAS sources to delineate the extent of PFAS in surface water and determine whether PFAS is originating at Barnes and/or other off-Site (non-DoD) sources



Surface Water Sampling/Monitoring Approach (cont.)

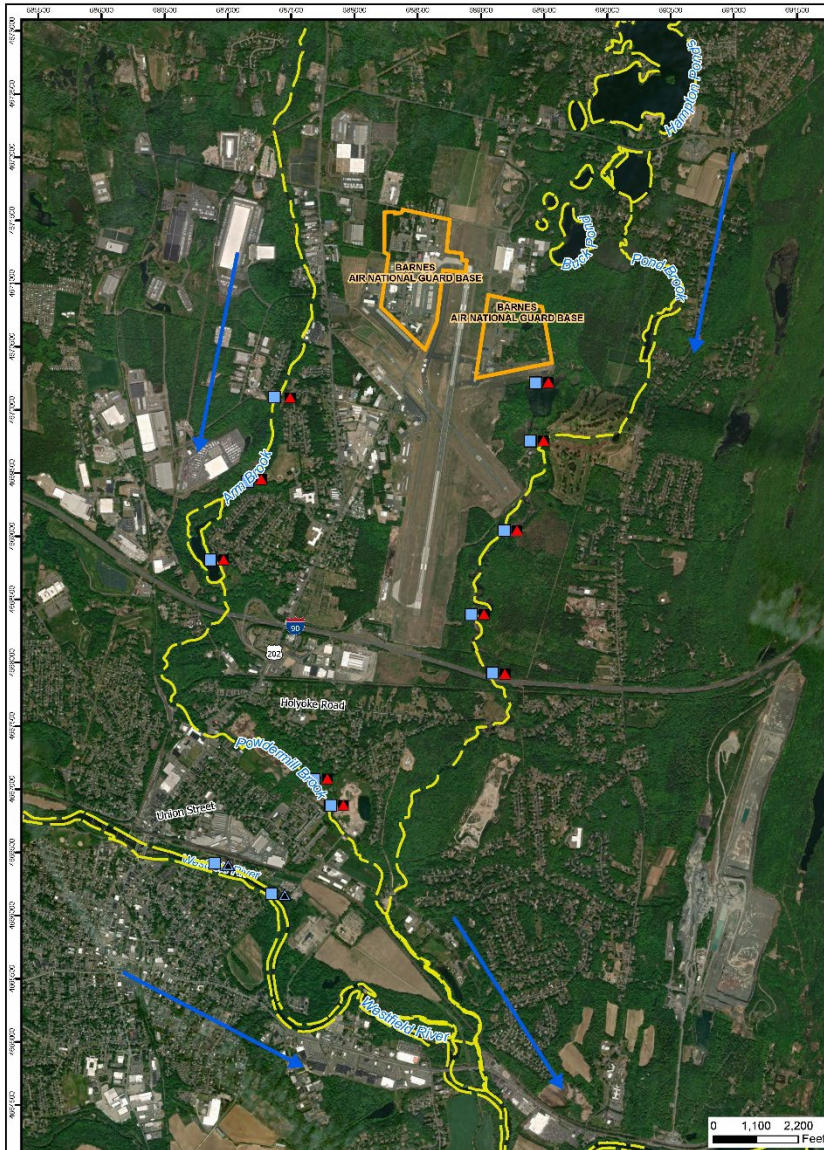


- Piezometers will be installed and monitored to determine whether groundwater is discharging to surface water or vice versa
- At those PFAS sampling locations where the surface water is visibly flowing, flow measurements will be collected





Surface Water Sampling Areas



DRAFT Sediment and Surface Water Sampling

Legend

- Surface Water Sample Exceedance*
- ESI Sediment Sample
- ▲ ESI Surface Water
- Proposed Surface Water for Sampling
- ➔ Surface Water Flow Direction
- ▭ Installation Boundary

*RSL Exceedance, 24 August 2023 Memorandum issued by the Office of the Assistant Secretary of Defense, Energy, Installations and Environment: Investigating Per- and Polyfluoroalkyl Substances within the Department of Defense Cleanup Program (OASD, 2023) and DoD update to the OASD Memorandum attachment (DoD, 2024).

Final off-site sampling locations are contingent upon obtaining rights-of-entry.



RAB Member Discussion



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Public Questions and Comments



In person: Raise hand to be recognized

Online: Submit questions using the written Q&A feature



Contact Information



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Caprice Shaw
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Websites for More Information



Environmental Restoration Program at 104th Fighter Wing

- General and Links to PFOS/PFOA Information: <https://www.104fw.ang.af.mil/About/Environmental/>
- Restoration Advisory Board: <https://www.104fw.ang.af.mil/About/Restoration-Advisory-Board/>

Relative Risk Site Evaluation (RRSE)

- Barnes RRSE: https://www.104fw.ang.af.mil/Portals/5/Barnes_RRSE%20Fact%20Sheet%20and%20Scoring%20Summaries_211215.pdf
- RRSE Primer: https://www.denix.osd.mil/references/dod/policy-guidance/relative-risk-site-evaluation-primer/RRSE_Primer_Summer1997.pdf

104th Fighter Wing Environmental Administrative Record

- <https://ar.afcec-cloud.af.mil/Search.aspx> (Select ANG radio button, select Barnes, and click on search)

MassDEP PFAS Information

- <https://www.mass.gov/info-details/per-and-polyfluoroalkyl-substances-pfas>

Westfield Water Department PFAS Information

- <https://www.cityofwestfield.org/672/PFCs-Information-Updates>

RAB Rule Handbook and Information on Technical Assistance for Public Participation

- <https://www.denix.osd.mil/rab/home/>

Air Force Response to PFOS and PFOA

- <https://www.afcec.af.mil/WhatWeDo/Environment/Perfluorinated-Compounds/>



Closing Remarks

Kathleen Hillman
Col. David Halasi-kun



Adjourn