



Barnes ANGB Restoration Advisory Board Meeting Summary

Subject Meeting #10 – Barnes Air National Guard Base (ANGB) Restoration Advisory Board

Prepared by Kathryn Burns/Jacobs

Location Westfield State University, Scanlon Hall and MS Teams

Date/Time January 30, 2025, 6:00p.m.

RAB Members

Col. David Halasi-kun, Base Co-Chair
Kathleen Hillman
Chris Clark
Kristen Mello
Jane Okscin
Dawn Thomas
Mary Ann Babinski
Sandi Gil
Mary O'Connell
Representative Kelly Pease
Caprice Shaw, MassDEP

Additional Meeting Participants

Jennifer Baker/Barnes ANGB
Robert Lewis/National Guard Bureau (NGB)
Amy Brand/Jacobs
Johannah Phelan/Jacobs
Kathryn Burns/Jacobs

A full list of attendees is provided in Attachment A.

The Barnes Air National Guard (ANG) Base Restoration Advisory Board (RAB) Meeting No.10 was held at 1800 on January 30, 2025 at Scanlon Hall, Westfield State University, and via Microsoft Teams. The following notes provide a summary of discussions during the meeting and are not intended to serve as a transcript or further explain information provided during the meeting. A copy of the presentation is included in **Attachment B**.

1. The meeting began at 1800 with the RAB facilitator, Amy Brand, welcoming participants. Amy presented the agenda, provided an overview of meeting guidelines and how to use the Teams meeting platform, and then invited the Base Co-chair, Col. David Halasi-kun, and Community Co-chair, Kathleen Hillman to provide opening remarks.
2. Col Halasi-Kun and Kathleen Hillman welcomed meeting participants.
3. Dr. Robert Lewis introduced himself as the new Remediation Program Manager (RPM) for Barnes, taking over for Chris Brown. Robert also manages installations within U.S. Environmental Protection Agency (EPA) Region 4.
4. Alexandra Jangrell-Tackett from Dawson introduced herself and presented an overview of Dawson/Jacobs contract which supports 76 installations with community involvement activities. Amy Brand with Jacobs will continue to support the Barnes RAB as facilitator, while Dawson, including updating the Community Involvement Plan (CIP) for Barnes. Alexandra presented an overview of the CIP update process and goals, as well as the current activities to update the CIP. A survey inviting specific input for the Barnes CIP is open for RAB members and other community members. RAB members were encouraged



Barnes ANGB Restoration Advisory Board Meeting Summary

to forward the link for the CIP questionnaire to other community members. Dawson will share a social media post to invite participation in the questionnaire and will provide a draft of the CIP for RAB member review.

5. Amy Brand requested input on the meeting minutes from RAB Meeting No. 9. Kristen Mello indicated that she would provide comments by email. She requested correction of two typographical errors and requested a correction to indicate the Technical Advisory for Public Participation (TAPP) advisor had not been selected. The RAB agreed to approve the Meeting Minutes from Meeting No. 9 via email.
6. Col. Sarah Sinclair, Barnes ANGB, presented an update on TAPP grant #2. Choleta has been selected as the FY24 TAPP advisor and the primary reviewer is Emily Hoskins. Col. Sinclair presented Emily's experience, which includes analyzing water quality data and specifically per- and polyfluoroalkyl substances (PFAS) related health implications. She has started reviewing documents in the performance work statement and will present her findings at the April RAB meeting.
7. Robert Lewis presented a brief update on the status of TAPP grant #3, which is not yet funded. However, they have been working on the performance work statement. He asked if there are any concerns about the FY25 TAPP Grant, please have Kathleen Hillman submit those to Robert Lewis.
8. The RAB asked if the recent meeting videos were on YouTube. The link to the videos is on the 104th Website and can be found here: <https://www.youtube.com/@104thfighterwing>
9. Kristen Mello asked if the 2020 CIP is the document being updated, and if so, can they see the current version? Robert indicated it is in the Administrative Record and Amy said that it could probably also be posted on the 104th website.
10. The Draft Final Quality Assurance Project Plan (QAPP) is currently under review by the RAB and the Massachusetts Department of Environmental Protection (MassDEP). Questions and comments from the RAB are due February 23, 2025; however, consolidated questions and comments sent by February 7 will be shared with MassDEP prior to them providing final comments to ANG. Comments should be sent to Robert Lewis and he will share them with MassDEP. Upon finalization of the QAPP, remedial investigation (RI) field sampling activities will begin in the spring.
11. Robert summarized changes to the U.S. Environmental Protection Agency (EPA) Regional Screening Levels (RSLs) which will be incorporated into the final version of the QAPP. Chris Clark asked for clarification of what RSLs are, which will be addressed later.
12. Whitney Plasket (USACE) introduced herself and provided an overview of the QAPP and which worksheets RAB members might want to focus on in their review. She explained the RI data quality objectives, which are primarily to understand where there are DoD-related PFAS, where PFAS are moving in the environment, and how people and animals may be exposed to PFAS. She then presented which worksheets from the QAPP may be of the most interest (worksheets 10, 11, 14, 16, 17, and 18) and what is included in each of those worksheets. She presented a project field scope that provided an overview of the work that will be done in the field. She then presented maps showing where sampling is planned for all of the various "media" (soil, surface water, sediment, and groundwater).



13. Kathleen Hillman asked if there is any timeline for how long it will take for the process outlined in Environmental Restoration Program (ERP) update slides. Whitney replied that a timeline for fieldwork is available in worksheet #14 of the PFAS RI QAPP. Amy also pointed out that there is an overview schedule in the slide deck (slide 22).
14. Mary Ann Babinski asked how the ongoing fieldwork is going to be communicated to the public, who will be the "face of the public notification", and whether City Hall would be contacted so they are prepared when they get calls from the public? Col. Halasi-kun responded that there is a public affairs specialist from Barnes that will help and that part of the RAB's responsibility is to disseminate information publicly. It is a joint effort between the Base and the community RAB members.

Mary Ann recommended starting communication early and to communicate often to help address questions and concerns effectively.

15. Amanda Martin (USACE) explained that entry to private property would be coordinated by real estate specialists through USACE. Property owners will be contacted directly for Right of Entry (ROE) agreements. Mary Ann Babinski emphasized that communication should start early and be repeated frequently and in many ways.

Alexandra Jangrell -Tackett also responded that the community involvement questionnaire includes standard questions asking the community about their information needs combined with their preferred communication methods. These responses will help drive how information will be distributed to reach as many people as possible.
16. Kelly Pease asked once field work starts in the spring, will RAB members receive data during the sampling period? Robert Lewis responded that yes, after the first round of sampling is performed and data is validated, it will be shared with RAB members.
17. Kathleen Hillman asked if residents and properties were already identified for the sampling process. Robert Lewis responded that they are still in the process of contacting and identifying all residents and properties; the list will be finalized once the QAPP is completed.
18. Mary Ann Babinski asked about the request not to share the QAPP and wanted to know when people in the community will be able to see it. Robert clarified that when the QAPP is finalized, it will be available on the Administrative Record for anyone to access.
19. Kristen Mello asked to clarify that the CIP is a broadscale communication plan for the ERP for all cleanup processes at the Base which fall within the ERP, not just the PFAS RI. Col. Halasi-kun replied that yes, the CIP is the broadscale communication plan for everything that falls under the ERP, including anything that has been previously mitigated at the Base, like the Fuel Storage Area.
20. Kristen Mello asked about RSLs and if State or Federal screening levels would be used in the RI. Jennifer Apell, USACE, responded that RSLs are risk-based concentrations that are set several orders of magnitude below acceptable risk levels and are established by the EPA. Caprice Shaw, MassDEP, responded that state screening levels for PFAS are currently



20 parts per trillion (ppt) for 6 PFAS. MassDEP is reviewing the new EPA standards but the state screening levels have not changed at this time.

Whitney Plasket stated that the Federal (EPA) RSLs from November 2024 and Federal Maximum Contaminant Levels (MCLs) for drinking water are being used as screening levels in the RI. The lower number will be used, unless the RSL is so low that it can't be detected by laboratory equipment; then, the MCL would be used. Kristen Mello asked if RSLs had been eliminated under the current Administration. Whitney Plasket stated that no, as of now, RSLs have not been eliminated.

21. Kristen Mello asked if sampling data could be provided in a spreadsheet (Excel) and not PDF format. Robert Lewis stated he would clarify this before the next meeting on April 24, 2025. All detections will be reported.
22. Chris Clark asked a follow-up question about the RSLs – if the level is below the RSL, would it be reported as non-detect, would it be reported at the level detected? Whitney responded that if the laboratory equipment detects a level, that level will be reported.
23. Kirsten Mello asked if there is anything in the QAPP about trees; what happens if trees have to be removed? Whitney replied that often they will try to drill right next to a road or other open area to avoid having to cut trees as much as possible. They try to look at each sampling location and try to adjust it to have the least impact possible on things like trees and to affect the fewest number of properties. Kristen indicated that Westfield has a challenge with trees in general, so avoiding tree removal would be appreciated.
24. There were no questions from the public in the room or online.
25. Amy reviewed the contact information and reminded RAB members to submit comments and questions through Kathleen Hillman, the community co-chair. Robert Lewis emphasized this request to help ensure emails are not missed and that any questions provided can be addressed during the meetings.
26. Amy also explained that we plan to start having an agenda planning meeting before each RAB meeting and suggested that RAB members submit input to Kathleen before that meeting so that RAB members' questions will be addressed during the upcoming RAB meetings.
27. Caprice Shaw, MassDEP, introduced her colleague, the new deputy regional director, Tamara Cardona-Marek.
28. Kathleen Hillman and Col Halasi-Kun provided closing remarks and the meeting adjourned at 7:15 p.m.

Action Items

1. Robert Lewis will determine if sampling data can be provided to the RAB in a spreadsheet format (Excel/CSV) versus PDF format.
2. RAB members to submit questions and comments through Kathleen Hillman prior to the next RAB meeting.

Attachment A

RAB Meeting Attendees (in person and online*)

Apell	Jennifer	USACE
Babinski	Mary Ann	RAB Member
Badik	Beth	Parsons
Baker	Jennifer	Barnes ANGB
Barton	Andrew	Battelle
Barzyk*	Tom	BB&E
Belanger*	Todd	Parsons
Brand	Amy	Jacobs
Bresee*	Magdalen	
Burns	Kathryn	Jacobs
Cardona-Marek	Tamara	MassDEP, Deputy Director
Clark	Chris	RAB Member
Folan*	Dan	USACE
Freihofer*	Keith	ANG
Goff	Andrew	SRS
Greenberg*	Grace	USACE
Halasi-kun	Davidl, Col.	Barnes ANGB
Hewitt*	Jay	Barnes ANGB
Hillman	Kathleen	RAB Member, Co-chair
Hoskin	Emily	TAPP Advisor
Jangrell-Tackett*	Alexandra	DAWSON
Kosub*	Emma	DAWSON
Lewis	Robert	National Guard Bureau, RPM
Martin	Amanda	USACE
Mello	Kristen	RAB Member
Messer*	Mark	On behalf of RAB Member Senator Velis
Morin*	Gary	
Narcisi*	Mike	USACE
O'Connell*	Mary	RAB Member
Okscin	Jane	RAB Member
Pease	Kelly	RAB Member
Peyton*	Kristen Carlyon	
Phelan	Johannah	Jacobs
Plasket	Whitney	USACE
Shaw	Caprice	MassDEP
Sinclair	Sarah, Col.	Barnes ANGB
Thomas	Dawn	RAB Member
Zelenevich	Max	USACE
	303-330-4626*	
	401-824-4791*	
	860-810-9569*	
	978-646-7484*	
	Carolyn*	



Barnes Air National Guard (ANG) Base Restoration Advisory Board Meeting #10 January 30, 2025



Agenda



- 6:00 PM Agenda Review and Meeting Logistics
- 6:10 PM Welcome and Introductions
- 6:20 PM RAB Business
- 6:35 PM Environmental Restoration Program Status Update
- 7:15 PM Public Questions and Comments
- 7:25 PM Closing Remarks
- 7:30 PM Adjourn



Meeting Logistics

Amy Brand

Jacobs

RAB Facilitator



Meeting Guidelines

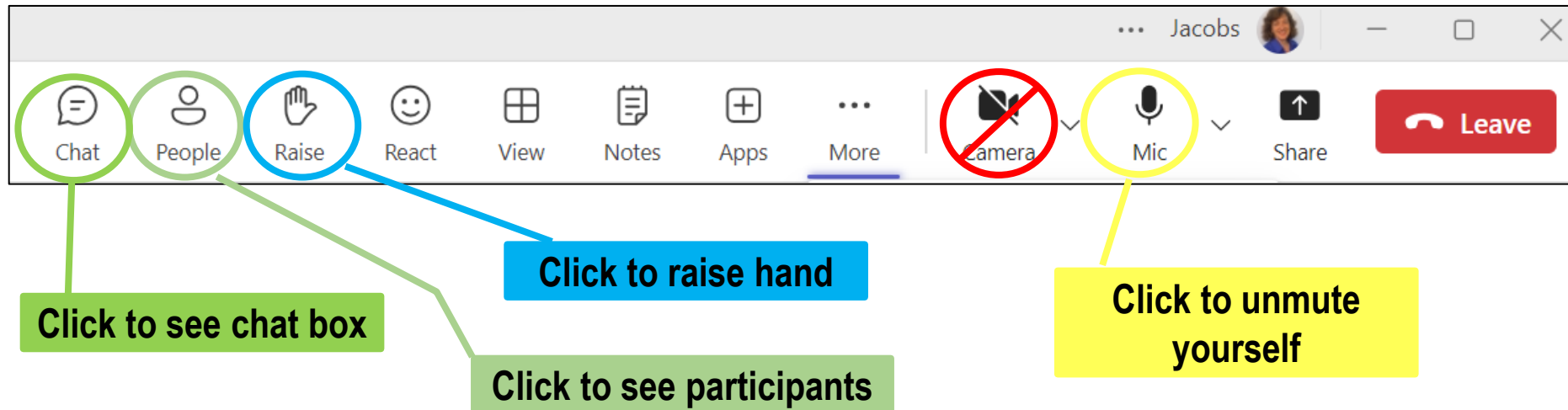


- RAB Members
 - Ask questions at the end of each topic
 - Raise hand to be called on to speak
 - Introduce yourself so that everyone (in room and online) knows who is speaking
 - Please observe a 2-minute limit to enable other RAB members to participate.
- Public Participants
 - Hold questions to the end of the meeting
 - In the room, raise hand and introduce yourself when called on
 - Online, submit questions through the “chat feature”
 - Questions will be read and addressed at the end of the meeting



MS Teams - Computer

- Camera – **Turn OFF** to save bandwidth – presentation will be on screen
- Participants – On the lower right, click on **Participants** to open panel
- To ask a question:
 - RAB Members - **Raise hand** to be called on to speak, **unmute** yourself when called on
 - Public participants – Use **Chat** to type your question





MS Teams Basics – Telephone Participants



- Follow along on the 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 *5 to raise hand to be called on to speak after the presentation
 - Use *6 or your phone mute button to unmute and identify yourself when asking a question or making a comment
- Any RAB members using a phone? Please identify at beginning of meeting



Welcome and Introductions

Kathleen Hillman
Col. David Halasi-kun



Welcome and Introductions



Air National Guard Team

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

Robert Lewis, 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

Sandi Gil

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

Whitney Sauvé, PE, Environmental Engineer

SRS-Battelle JV Team (USACE Contractor)

Andrew Barton, Battelle, Project Manager

James Griffin, SRS, Alternate Project Manager



RAB Business

Amy Brand, Jacobs

Robert Lewis, National Guard Bureau

Emma Kosub, Dawson



Robert Lewis

National Guard Bureau
Remedial Project Manager

Phone: 240-612-8473
Email: robert.lewis.100.ctr@us.af.mil



Barnes ANGB

Community Involvement Plan (CIP) Update

Alexandra Jangrell-Tackett
Program Manager
DAWSON



Barnes ANGB CIP Update

DAWSON Community Involvement Overview:

DAWSON's community involvement team includes experts on community engagement and risk communication. Our staff have an average of 10+ years of experience in community involvement support. We support a diverse set of clientele such as U.S. EPA, DoD, U.S. CBP, and others.

Key Personnel for Barnes ANGB CIP Update:

- Ms. Jangrell-Tackett, Program Manager holds a BS in Marine Science/Chemistry and MS in Environmental Science and Policy. Ms. Jangrell-Tackett specializes in Program Management for environmental projects focusing on community involvement, environmental regulatory compliance, and due diligence.
- Ms. Emma Kosub, Project Manager holds a BA in Sociology with a minor in Political Science and an MPAff in Public Affairs. Ms. Kosub specializes in Community Involvement under CERCLA.



Barnes ANGB CIP Update

CIP Update Overview:

A Community Involvement Plan (CIP) is a site-specific strategy and set of communications methods to support meaningful community involvement throughout the CERCLA process. The Air National Guard (ANG) is currently working on updating the CIP for Barnes ANG Base (ANGB). We are seeking input from RAB members and the local community.

Goals of the Barnes CIP:

- Help local communities understand the Superfund process and cleanup activities at the installations
- Gauge community interests, knowledge, concerns, and preferred methods of communication
- Apply those methods to help community members stay informed and actively involved



Barnes ANGB CIP Update



Current Activities:

- Development of Draft CIP
- Request for RAB member and public input via a virtual questionnaire (on SurveyMonkey) and/or phone interview, if requested, to walk through questionnaire
- The survey invites input specific to community concerns about Barnes ANGB
- Responses are confidential and anonymous
- If you know of any family, friends, or coworkers that you think may want to participate in this survey, please forward it along to them
- Please scan the QR code or follow the link below to provide your input.



<https://www.surveymonkey.com/r/BarnesANGB>

Points of contact for Barnes ANGB:

Public Affairs Officer Email:

Jerry Hewitt jerry.hewitt@us.af.mil

Website: <https://www.104fw.ang.af.mil/>

Support Contractor Point of Contact:

Emma Kosub: ekosub@dawsonohana.com

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Barnes ANGB CIP Update



Upcoming Activities:

- Social Media Post to be shared by ANG and any local community partners
- RAB Review of Draft Final CIP

Your input is greatly appreciated!

<https://www.surveymonkey.com/r/BarnesANGB>





Meeting Summaries

- Draft meeting summary from last RAB Meeting emailed to the RAB January 23 – any comments?
 - Draft posted on the 104th FW website:
<https://www.104fw.ang.af.mil/About/Restoration-Advisory-Board/>



Upcoming Meetings

- Dates
 - Fourth Thursday of the month, every 3 months: January, April, July, October
 - Adjustments to be made when needed
 - Upcoming meetings: April 24, 2025
 July 24, 2025
 October 23, 2025



Technical Assistance for Public Participation (TAPP) Grant

- FY24 TAPP Grant (#2)
 - RAB members voted by majority to pursue a TAPP focused on gaining a better understanding of health implications of site contaminants and exposure scenarios
 - Project awarded September 2024
- FY25 TAPP Grant (#3)
 - RAB members voted by majority to pursue a TAPP focused on site co-contaminants, the UFP-QAPP, state and federal clean up standards, and the implications of each
 - Currently pursuing funds assurance for FY25 funds



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

Robert Lewis
National Guard Bureau
Remedial Project Manager



Environmental Restoration Program

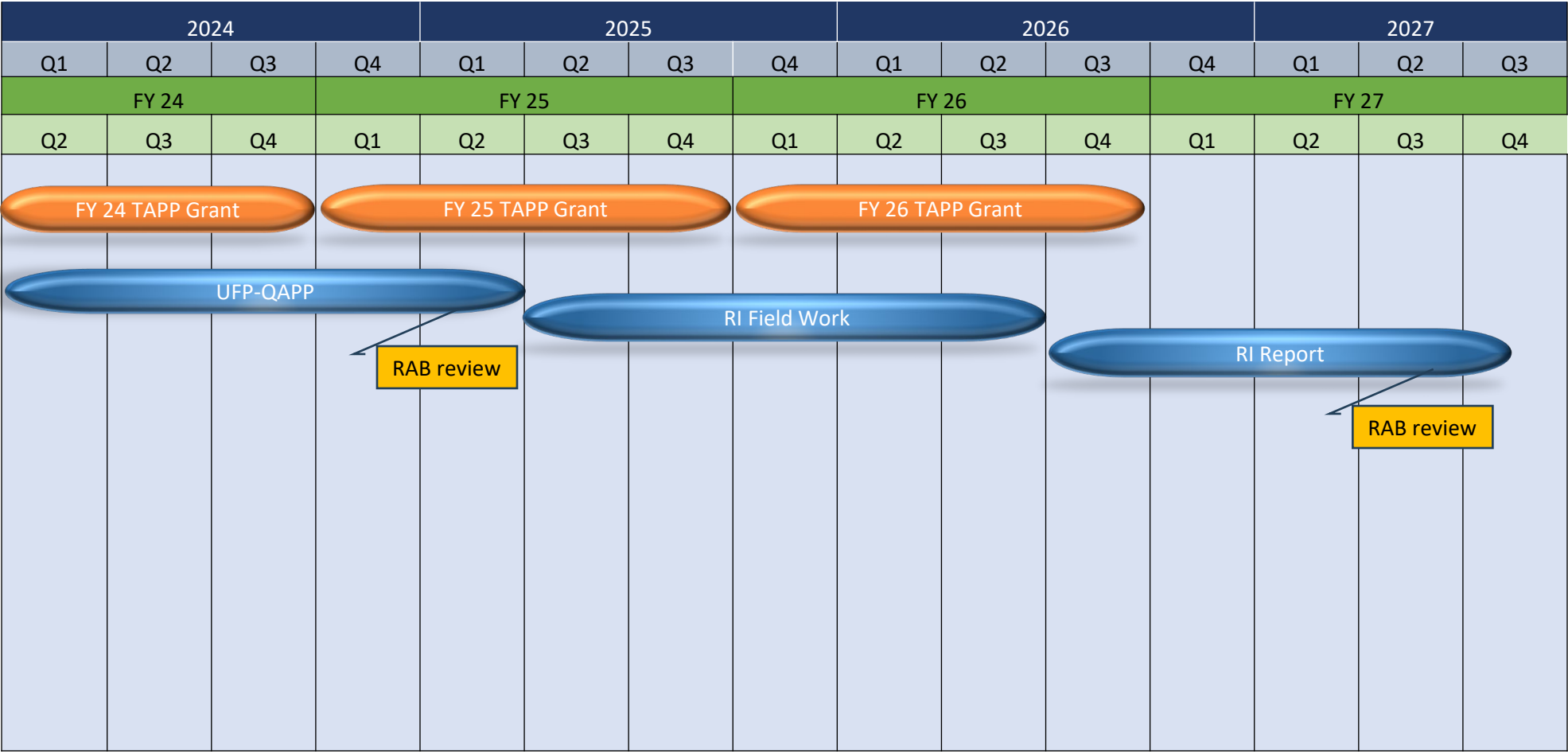


- PFAS Remedial Investigation (RI)
 - Uniform Federal Policy-Quality Assurance Project Plan (UFP-QAPP) – submitted for RAB and MassDEP review in January 2025
 - Start of field sampling activities, Spring 2025



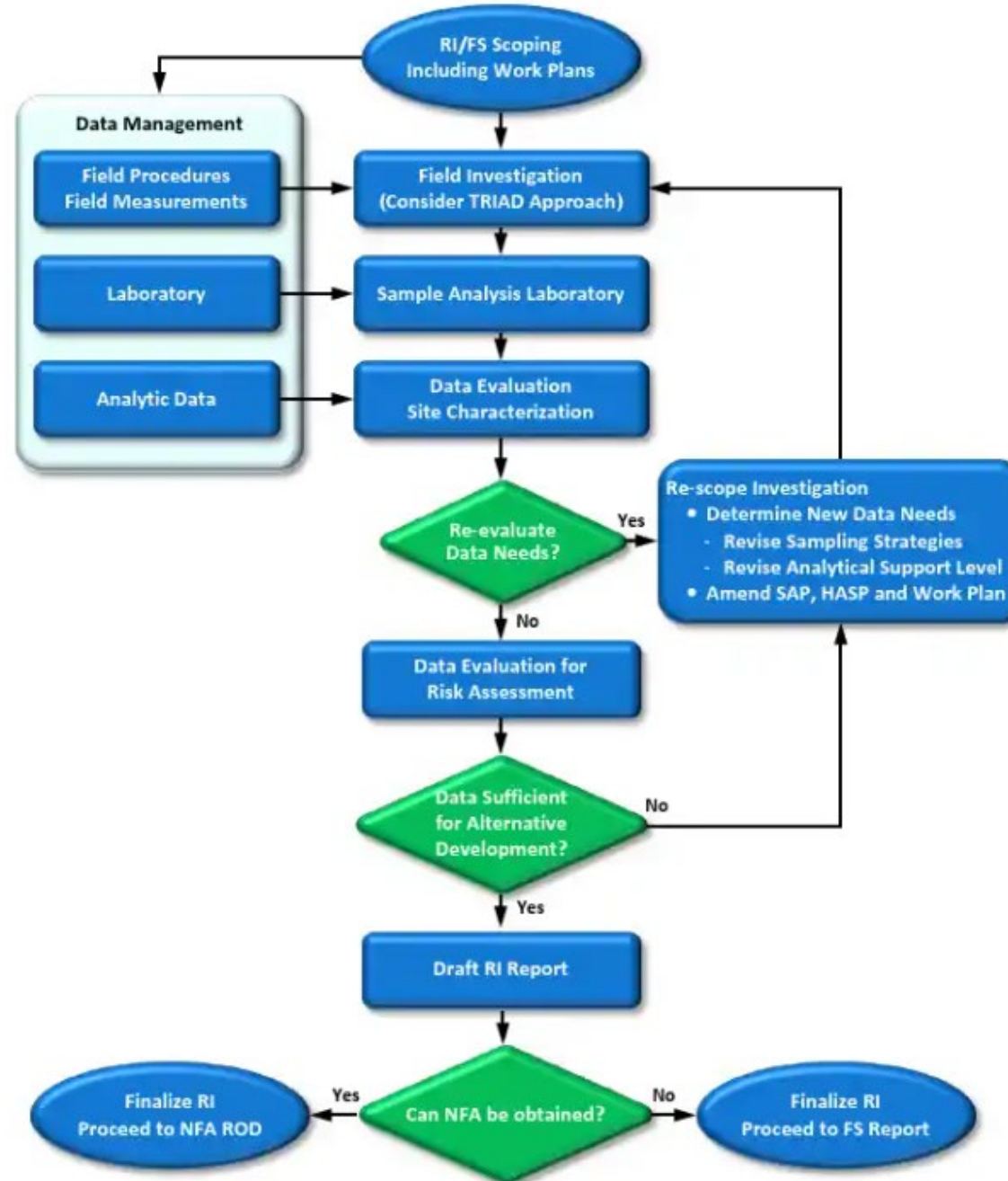


Barnes Restoration Calendar





PFAS Remedial Investigation (RI) Updates



Reference: Department of Navy
Environmental Restoration Program
Manual, 2018



Regional Screening Levels

- On Jan 17, 2024, DoD adopted the November 2024 EPA Regional Screening Levels.
- The DoD memorandum is effective immediately and supersedes the Nov 2023 RSLs.
- The change to the RSLs will be reflected in the Final QAPP.
- For plume delineation, the lower of the RSL or MCL will be used, and where the RSL is below the EPA Method 1633 Method Detection Limit (MDL), the MDL will be used.



Remedial Investigation (RI) Data Quality Objectives (DQOs)

- The primary objective of the PFAS RI is to define the nature and extent of DoD-related PFAS, identify 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.



Work Plan Format – Quality Assurance Project Plan



- The QAPP work plan format includes 37 worksheets that serve various purposes: defining the project team, setting objectives, defining how to calibrate laboratory instruments, etc.
- Many worksheets are specific to how the laboratory and consultant teams will perform the work

#1 & 2: Title and Approval Page

#3 & 5: Project Organization and QAPP Distribution

#4, 7 & 8: Personnel Qualifications and Sign-off Sheet

#6: Communication Pathways

#9: Project Planning Session Summary

#10: Conceptual Site Model

#11: Project/Data Quality Objectives

#12: Measurement Performance Criteria

#13: Secondary Data Uses and Limitations

#14/16: Project Tasks & Schedule

#15: Project Action Limits and Laboratory-Specific Detection/Quantitation Limits

#17: Sampling Design and Rationale

#18: Sampling Locations and Methods

#19 & 30: Sample Containers, Preservation, and Hold Times

Worksheets
that may be of
particular
interest for RAB
review

#20: Field QC Summary

#21: Field SOPs

#22: Field Equipment Calibration, Maintenance, Testing, and Inspection

#23: Analytical SOP's

#24: Analytical Instrument Calibration

#25: Analytical Instrument and Equipment Maintenance, Testing, and Inspection

#26 & 27: Sample Handling, Custody, and Disposal

#28: Analytical Quality Control and Corrective Action

#29: Project Documents and Records

#31, 32 & 33: Assessments and Corrective Action

#34: Data Verification and Validation Inputs

#35: Data Verification Procedures

#36: Data Validation Procedures

#37: Data Usability Assessment



Work Plan Format – Quality Assurance Project Plan



- Worksheets of particular interest to the RAB would likely include:
 - *Worksheet #10: Preliminary* Conceptual Site Model* – Site history, investigation history and findings to date. Includes key information about the physical features of the property (groundwater flow direction, geology, more).
 - *Worksheet #11: Data Quality Objectives* – Details the goals of the investigation, how data will be determined to be of good quality, and how it will be used.
 - *Worksheets #14 & 16: Project Tasks and Schedule* – Describes each activity to be performed in the field (e.g., groundwater vertical aquifer sampling, surface soil sampling) and includes an approximate schedule.

**The CSM is an iterative “living” understanding of the site, updated using new data and information.*



Work Plan Format – Quality Assurance Project Plan



- Worksheets of particular interest (continued):
 - [Worksheet #17: Sampling Design and Rationale](#) – Reiterates concisely field efforts to be performed and refers to other worksheets for detailed rationale (Worksheets #10 and 14)
 - [Worksheet #18: Sampling Locations and Methods](#) – Includes tables detailing sample IDs, sample types, numbers of samples, and depths at which they will be collected. Includes the areas to be sampled and the rationale for the sampling.
- Figures are important to reference while reviewing these worksheets.

Bookmarks available in PDF

UFP-QAPP Worksheet #34 – Data Verification and Validation Inputs
UFP-QAPP Worksheet #35 – Data Verification Procedures
UFP-QAPP Worksheet #36 – Data Validation Procedures
UFP-QAPP Worksheet #37 – Data Usability Assessment
REFERENCES
✓ Figures
Figure 1 Site Location
Figure 2 AOC1
Figure 3 AOC2
Figure 4 AOC4
Figure 5 AOC5
Figure 6 AOC6
Figure 7 AOC7
Figure 8 AOC8
Figure 9 Groundwater Sampling Locations
Figure 10a Proposed Surface Water and Sediment Locations - North



Project Field Scope (Worksheet #14 & 16)

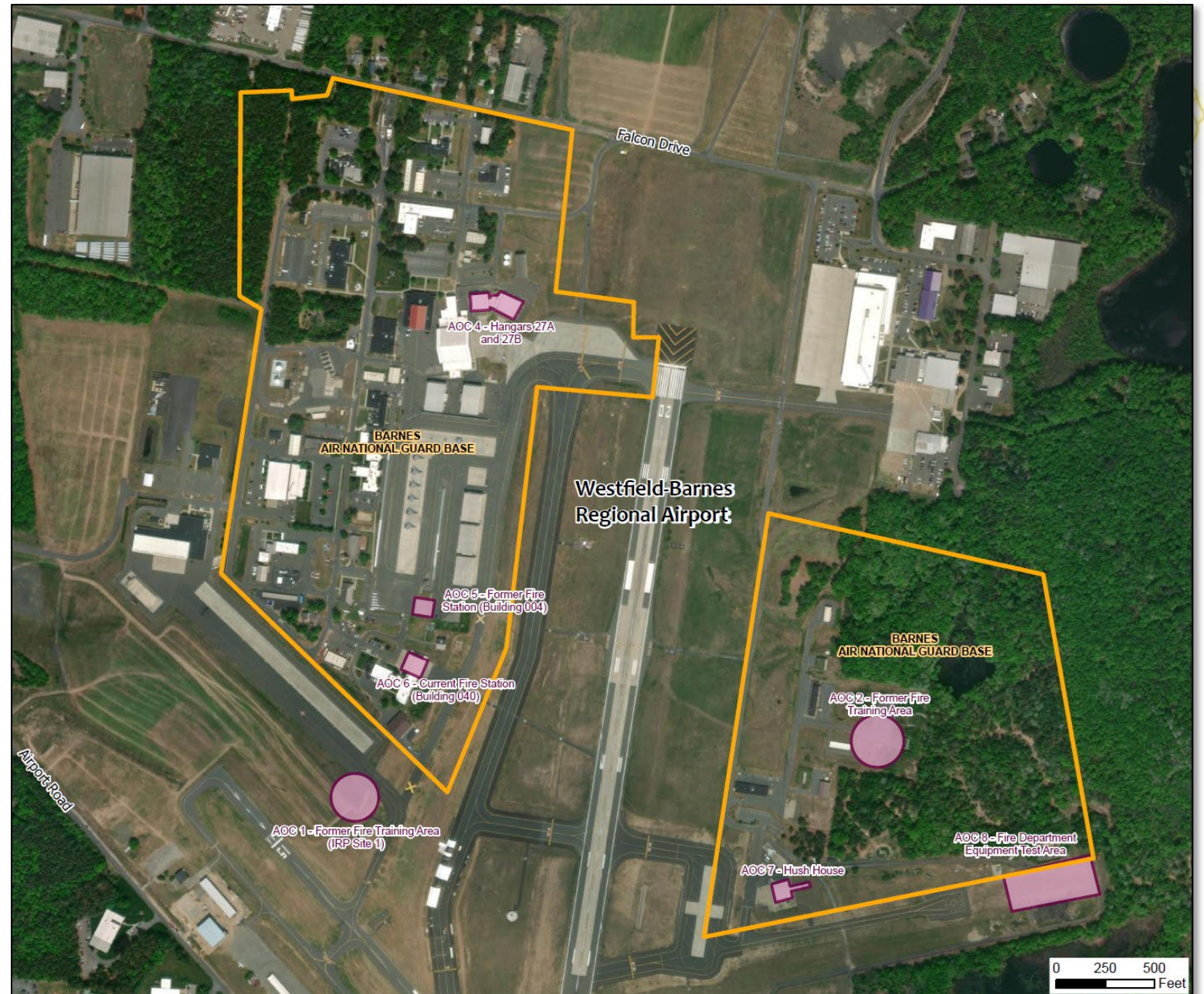


- ☐ Site Access Agreements
- ☐ Utility Location & Permit Compliance
- ☐ Surface Soil Sampling
- ☐ Subsurface Soil Sampling
- ☐ Surface Water & Sediment Sampling
- ☐ Vertical Aquifer Sampling (Groundwater)
- ☐ Groundwater Monitoring Well Installation
- ☐ Borehole Geophysical Logging
- ☐ Monitoring Well Development
- ☐ Low Flow Groundwater Sampling
- ☐ Groundwater and Surface Water Elevation Gauging & Measurement
- ☐ Location Surveying
- ☐ Habitat Assessment
- ☐ Investigation Derived Waste Management & Disposal
- ☐ Field Record Management & Reporting



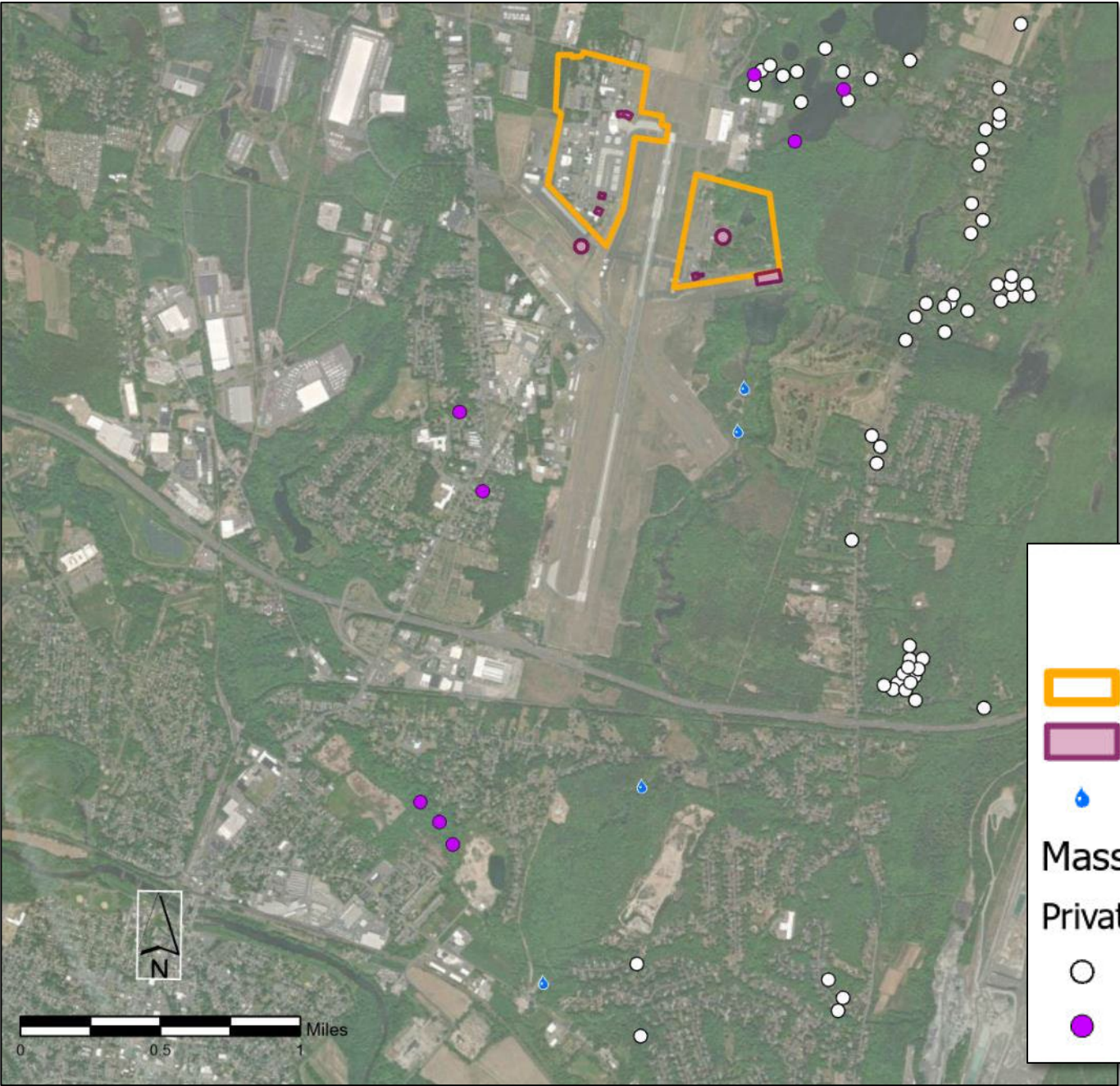
Site Layout

- AOC 1 – Former Fire Training Area
- AOC 2 – Former Fire Training Area
- AOC 4 – Hangars 27A and 27B
- AOC 5 – Former Fire Station
- AOC 6 – Current Fire Station
- AOC 7 – Hush House
- AOC 8 – Fire Department Equipment Test Area







Regional Map




POET = Point of Entry
Treatment System

Legend


 Installation Boundary


 AOC Boundary

 Public Water Supply

MassDEP

Private Wells Sampled

 No POET

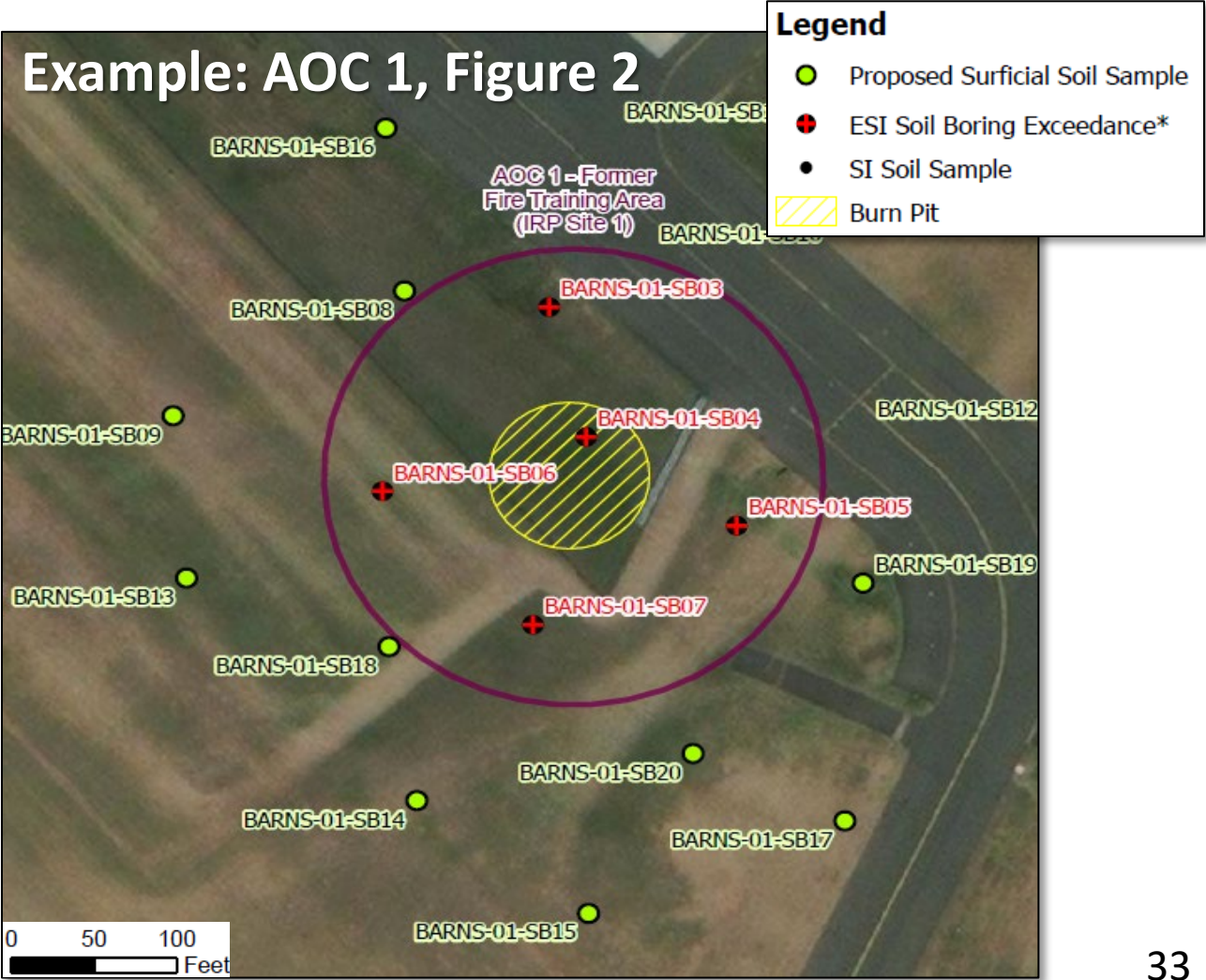
 POET



Soil Sampling

Area	# of Samples	Question to be Answered
AOC-1	13	<ul style="list-style-type: none"> Where did releases of materials containing PFAS occur? Where and at what concentrations are PFAS present in soils now?
AOC-2	10	
AOC-4	8	
AOC-5	10	
AOC-6	10	
AOC-7	11	
AOC-8	10	

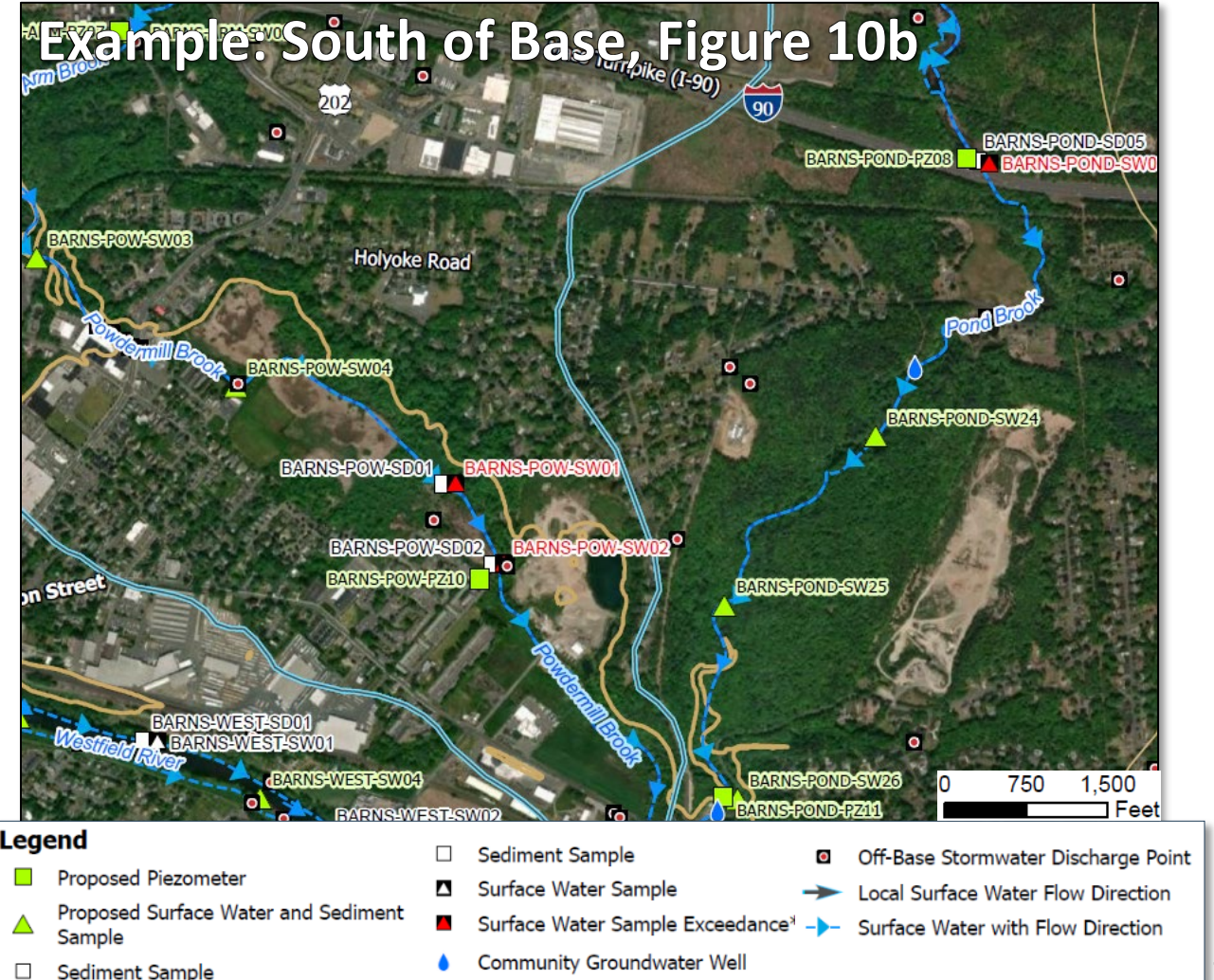
Notes: 1) Subsurface soil borings will also be drilled based on surface soil results
 2) AOC = “Area of Concern”, typical nomenclature for investigation areas





Surface Water and Sediment Sampling

Location	# of Samples	Questions to be Answered
Arm Brook	9	<ul style="list-style-type: none">Determine what PFAS are present in surface water and sediment adjacent to, upstream, and downstream of known or suspected PFAS release areas.Evaluate spatial relationship of PFAS in surface water and sediment to locations of stormwater outfalls.
Powdermill Brook	7	
Pequot, Long, Horse, Doe, Round, Buck, Chapin Ponds & Pond Brook	27	
Westfield River	8	

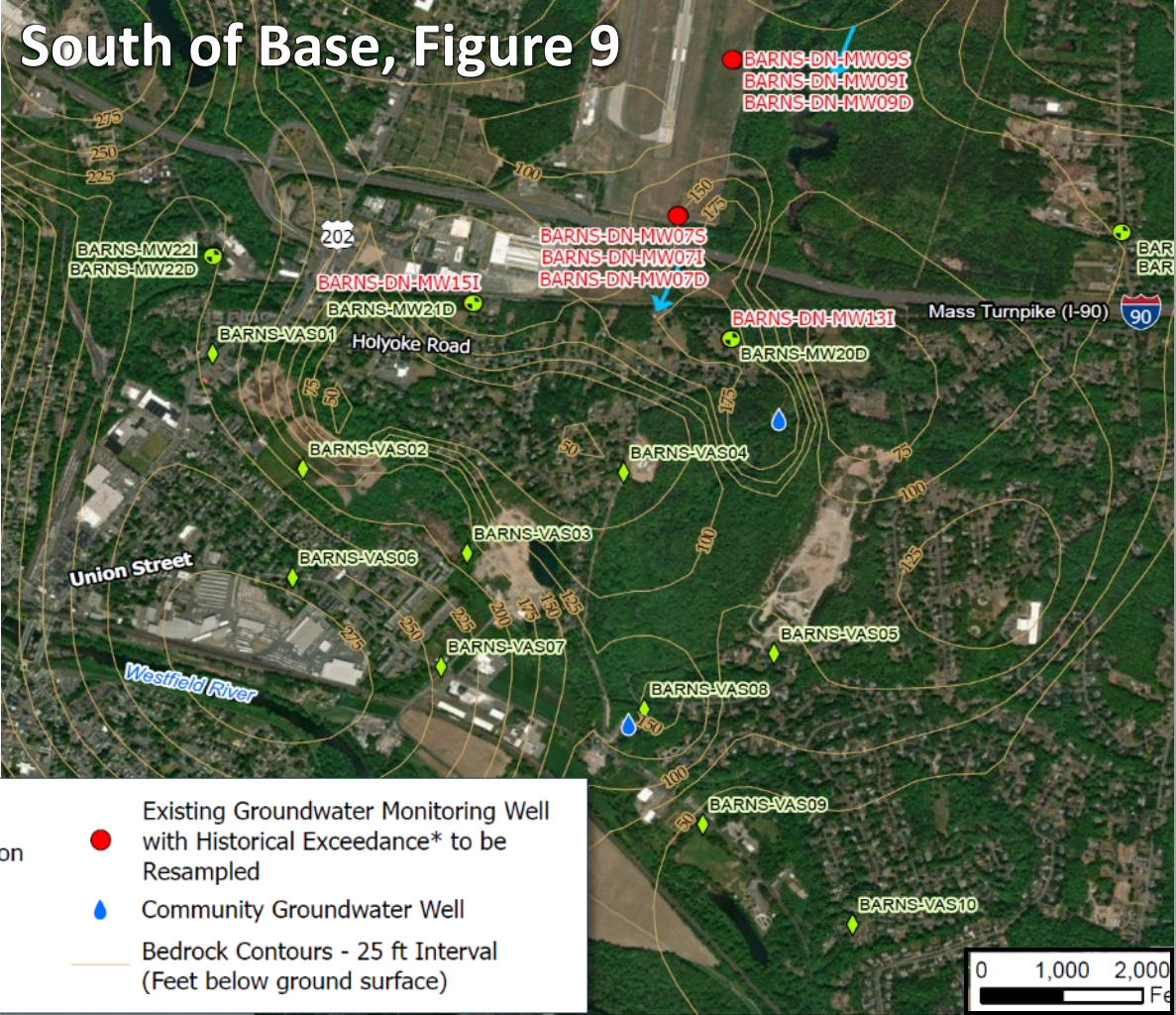




Vertical Aquifer Sampling (Groundwater)

# of Loc.	Depths	Question to be Answered
10	Top of water table + 3 based on soil type	Collect groundwater samples to evaluate the spatial distribution of PFAS in groundwater and assess where permanent wells should be located and what depth of groundwater they should screen

Note: Permanent monitoring wells will be located in these areas based on the results of the analyses

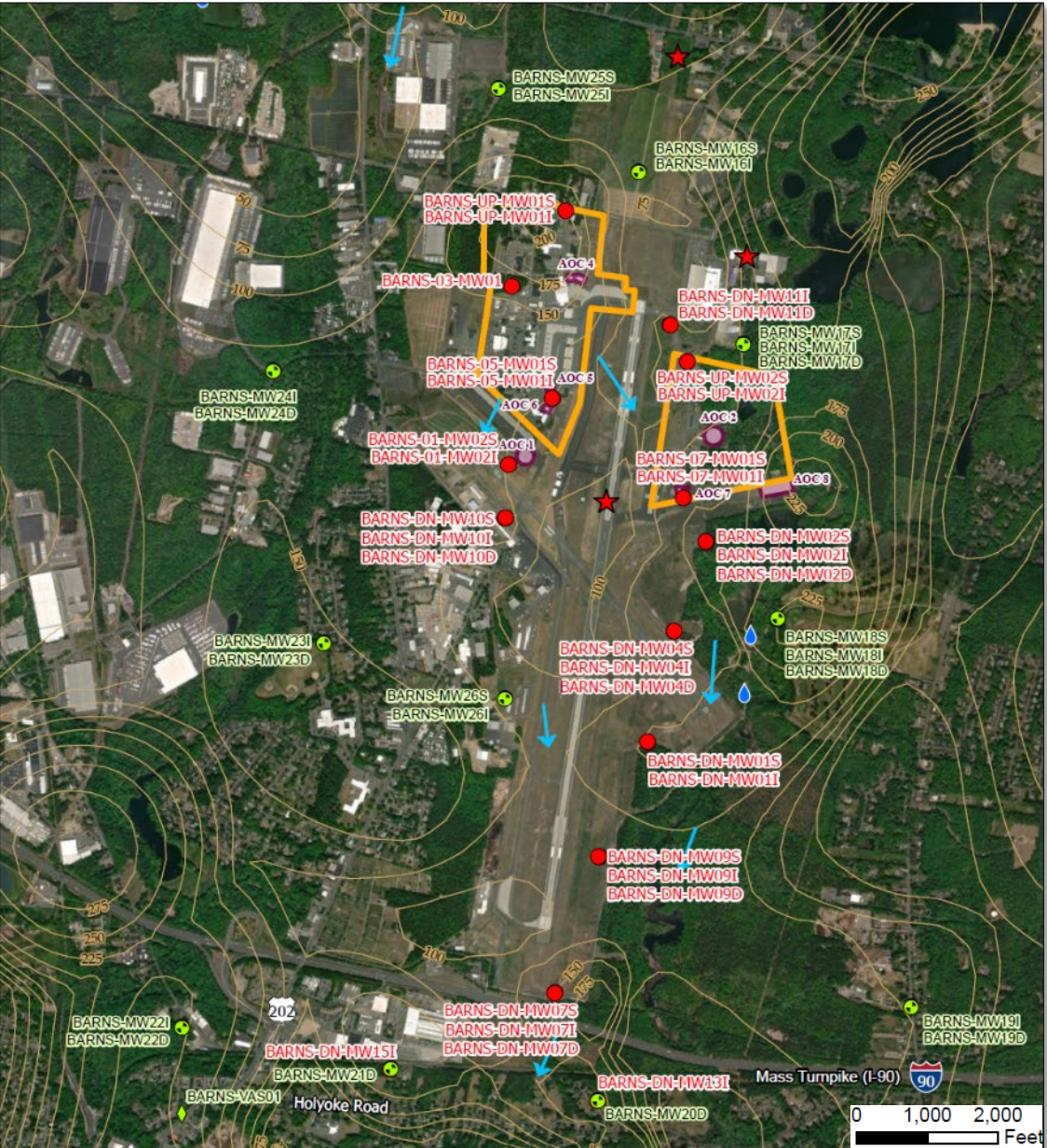




Groundwater Sampling

Location	# of Samples	Depths (ft bgs)	Question to be Answered
AOC-1	2	34-44, 63-73	Confirm PFAS concentrations in existing monitoring wells
AOC-3	1	3-13	
AOC-5	2	22-32, 70-80	
AOC-7	2	44-54, 80-90	

Legend	
	Proposed VAS Sampling Location
	Proposed Monitoring Well
	Known AFFF Release
	Existing Groundwater Monitoring Well with Historical Exceedance* to be Resampled
	Community Groundwater Well
	Bedrock Contours - 25 ft Interval (Feet below ground surface)
	Approximate Groundwater Flow Direction
	Installation Boundary
	Area of Concern (AOC) - Approximate





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.



Public Questions and Comments



In person: Raise hand to be recognized
Online: Submit questions using chat



Contact Information



104th Fighter Wing, Barnes Air National Guard Base

Base Co-Chair
Commander
Col. David Halasi-kun

Environmental Manager
Jennifer Baker

Public Affairs Manager
Jay Hewitt
(413) 568-9151 x 698-1202
Jerry.hewitt@us.af.mil

Community Co-Chair

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RAB members, please submit questions and comments through your Community Co-Chair

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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
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Adjourn