

Welcome to the RAB Meeting



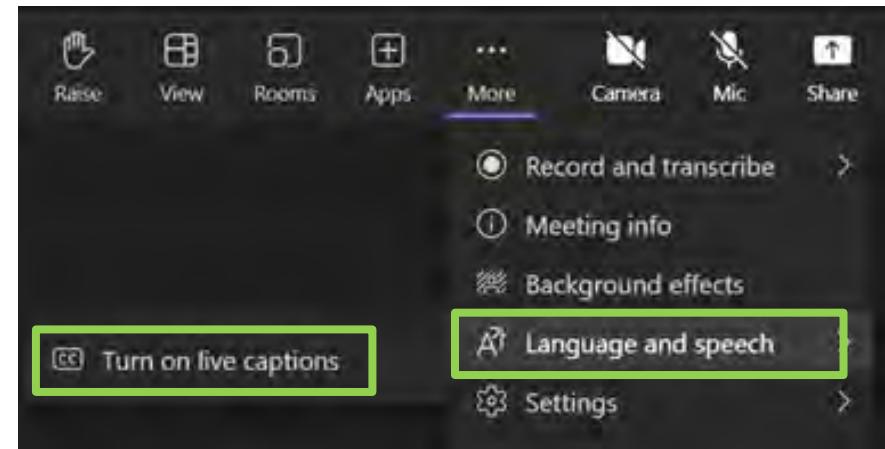
Thank you for joining the
Restoration Advisory Board (RAB) Meeting for
Naval Air Station (NAS) Brunswick

The meeting will begin at 6:00 p.m.

For captions, click More ●●● on the screen

Select 'Language and Speech'

Click 'Turn on live captions'





Restoration Advisory Board Meeting (RAB) Former Naval Air Station Brunswick

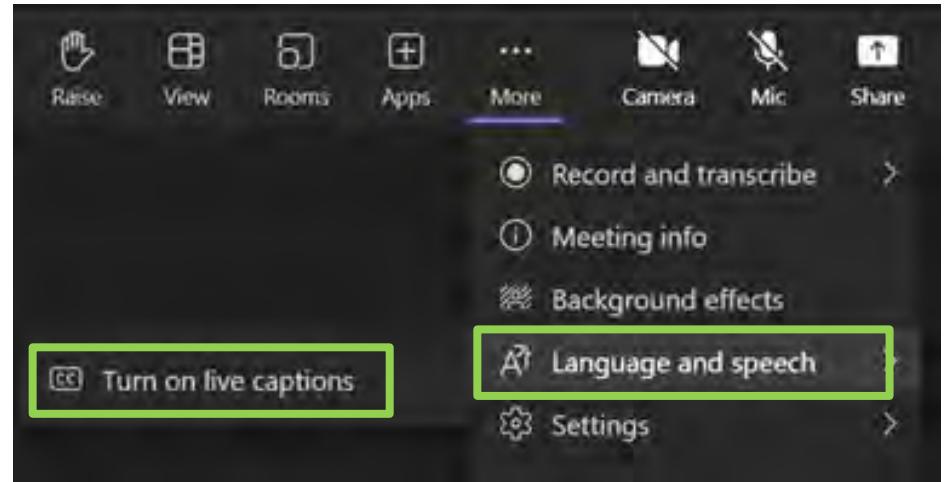
May 22, 2024



Teams Tools

- **Closed Captioning**

- Select More ●●●
- Select “Language and speech”
- Click “Turn on live captions”



- **Screen Layout**

- To adjust the layout on your screen, select View
- Choose the preferred view from available choices.
Options include Gallery View, Focus on Content and under more options, Full Screen

Hybrid Meeting Information



- This is a hybrid meeting with in-person and virtual attendees.
- The virtual meeting will show the presentations.
- The presenters and in-person attendees will be audio only.
- Attendee microphones will remain muted except when recognized for questions.
- Questions or comments may be entered in the chat as they arise; they will be addressed during Q&A sessions.
- The meeting is being recorded. The recording will not be made public and will be used only for preparation of meeting minutes.
- Webinar sign-in names will be used for the minutes.

RAB Ground Rules and Information

RAB Meeting Ground Rules

- One speaker at a time
- Question and answer periods will be provided throughout the presentations
- Please turn cell phones off or to silent during the meeting

RAB Information

- Public notices
 - Published in the Times Record May 8 and 17
 - Published in The Northern Forecaster May 9 and 16
 - Published in Coastal Journal May 10 and 17
 - Posted on the Navy website
 - Provided to the mailing list
 - Digital ads appeared beginning on April 24

Meeting Agenda



Introductions

Major Site Activity Updates

- Community Outreach
- PFAS Remedial Investigation & Biota Sampling
- LUC Compliance Activities
- Redevelopment Activities
- Picnic Pond Remedial Action

Other Activities

- CERCLA Long-Term Monitoring
- GWETS/Eastern Plume Extraction Wells
- FOSTs
- Jordan Avenue Wellfield
- Hangar 4 AFFF

Open Discussion, Questions, and Wrap-Up

Members

RAB Co-Chairs:

- Ms. Suzanne L. Johnson, Esq.
- Ms. W. Rachelle Knight, BRAC Environmental Coordinator, Navy

RAB Members:

- Mr. Derek Pinkham, Remedial Project Manager, Navy
- Mr. Michael Daly, Remedial Project Manager, United States Environmental Protection Agency (USEPA)
- Mr. Iver McLeod, Remedial Project Manager, Maine Department of Environmental Protection (MEDEP)
- Ms. Kristine Logan, Midcoast Regional Redevelopment Authority (MRRA)
- Mr. Paul Ciesielski, Town of Harpswell, Maine
- Ms. Susan Schow, Town of Topsham, Maine
- Ms. Carol A. White, C.A. White & Associates, Brunswick Area Citizens for a Safe Environment (BACSE)
- Mr. David Page, PhD, Town of Brunswick, Maine

Community Involvement Plan (CIP), March 2023

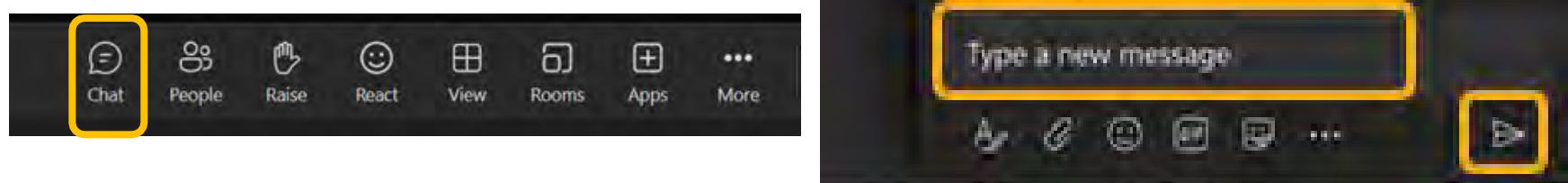
- Available on the Navy Brunswick website
- Key findings
 - Newspaper is primary source of information (32%)
 - No information received regarding cleanup program (44%)
 - Prefer quarterly updates (40%) over monthly (35%)

Update on initiatives

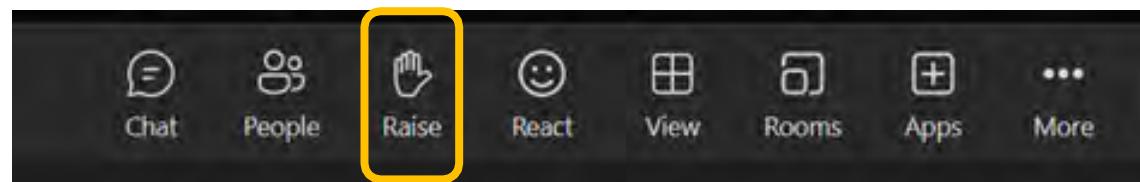
- Register for updates via GovDelivery
bracpmo.navy.mil/BRAC-Bases/Northeast/Former-Naval-Air-Station-Brunswick/
- Evening meetings to promote increased participation

Q&A

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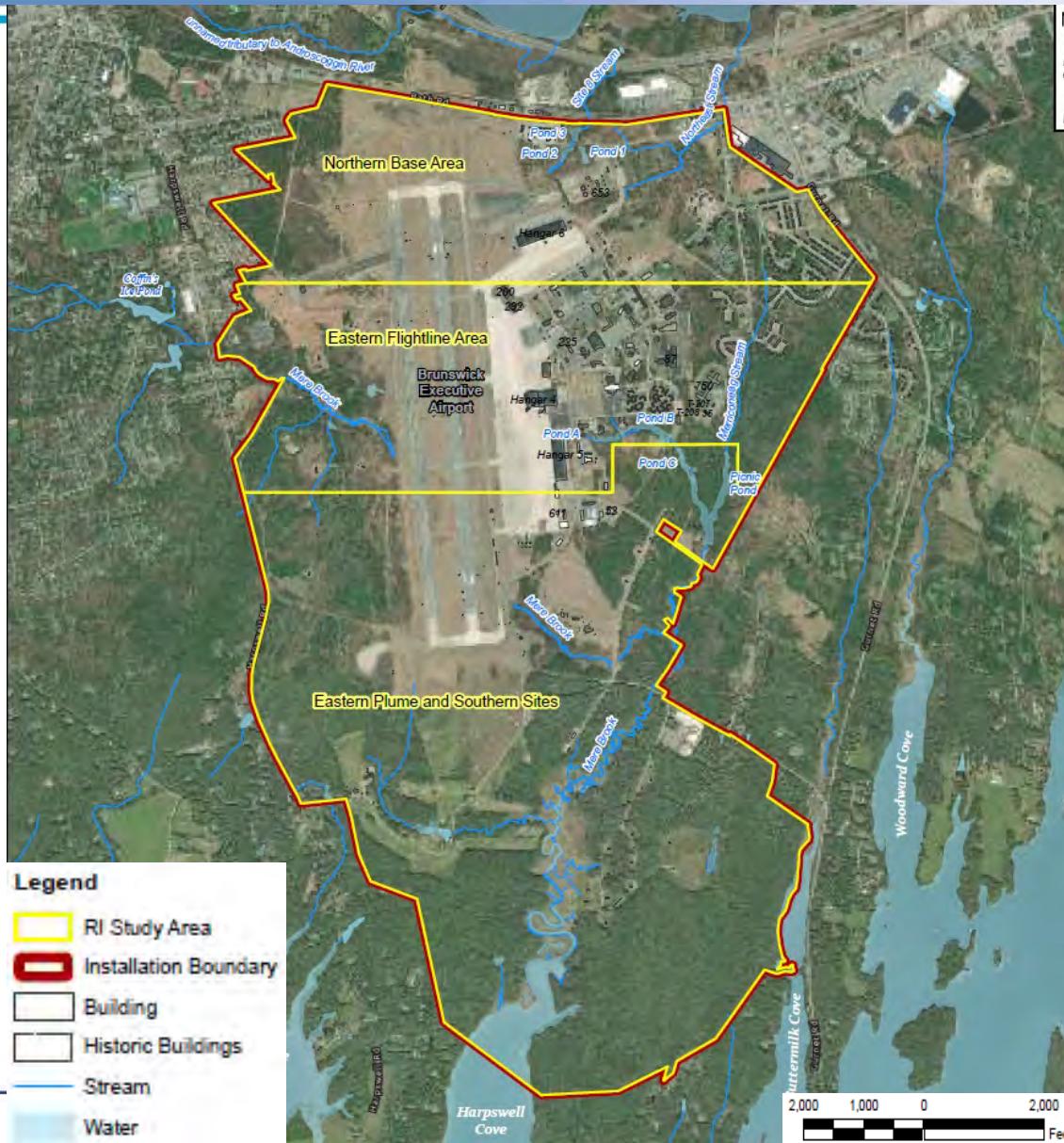
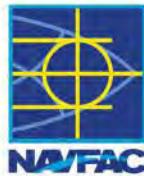
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PFAS RI Activities

- RI Initial Investigation – April 2022 through April 2023
- Shellfish Tissue Sampling - September 2023
- Finned Fish Tissue Sampling – October 2023
- RI Data Gap Investigation – October 2023

Major Site Activity Updates

PFAS RI Study Areas



Major Site Activity Updates

PFAS RI Study Areas



2020 PFAS Summary Report Area	PFAS RI Study Area
Area 1 – Jordan Ave/NW Base	Northern Base Area
Area 6 – Eastern Base Area	Northern Base Area
Area 7 – Former Building 653 Area	Northern Base Area
Area 4 – Western Base Area	Eastern Flightline Area
Area 8 – Industrialized Area	Eastern Flightline Area
Area 5 – Southwest Base Area	Eastern Plume and Southern Sites
Area 9 – Eastern Plume/Southern Base Area	Eastern Plume and Southern Sites

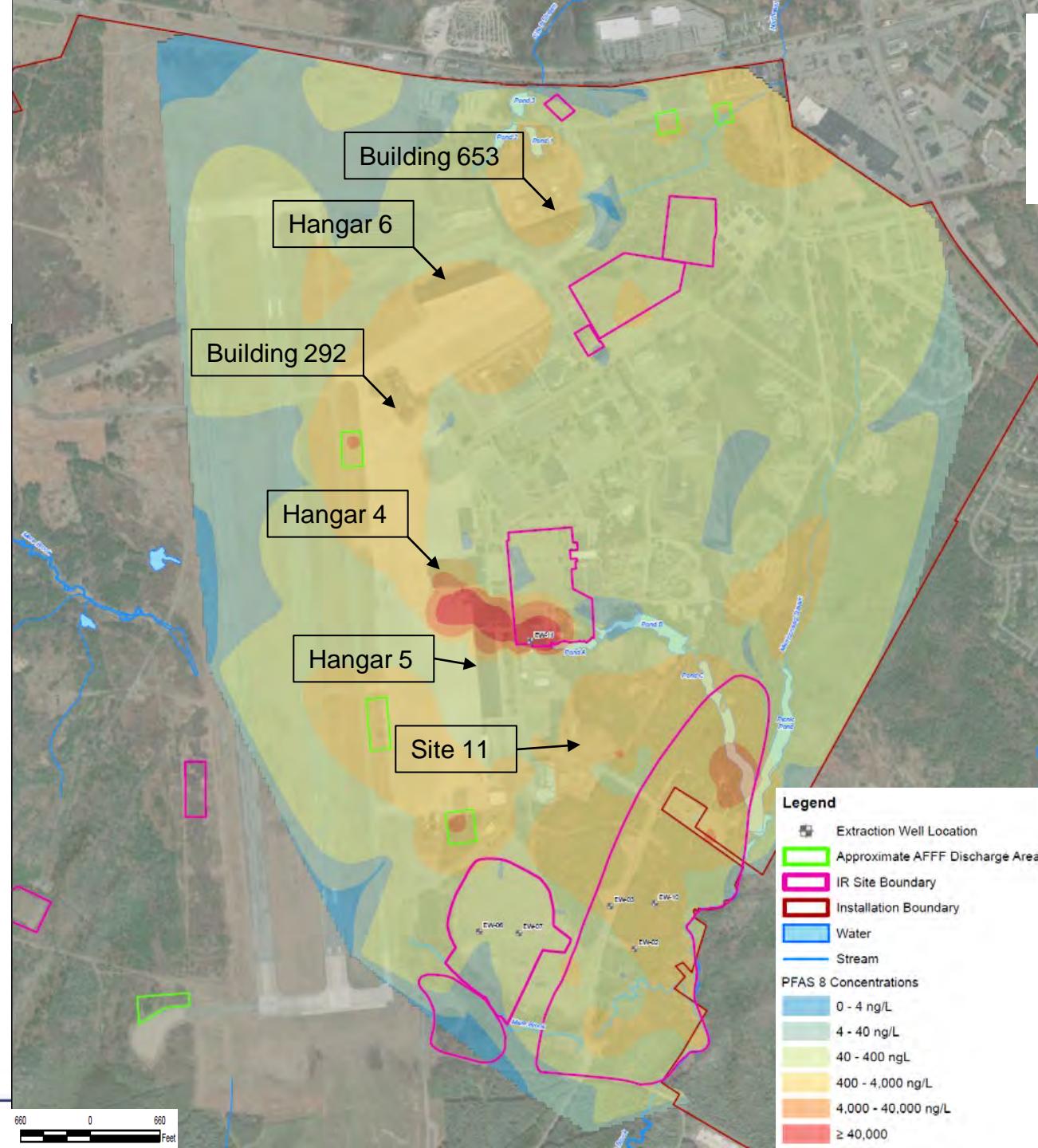
Major Site Activity Updates

PFAS RI Groundwater Project Screening Levels (PSLs)



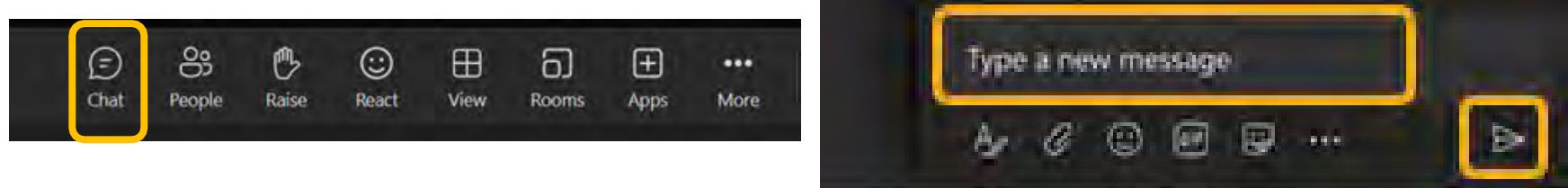
PFAS Compound	Project Screening Level (ng/L)
PFOA	6
PFOS	4
PFBS	600
PFHxA	990
PFHxS	39
PFNA	5.9
PFBA	1800
HFPO-DA (aka Gen-X)	1.5

Basewide Groundwater Concentrations Heat Map for the sum of the 8 PFAS with PSLs

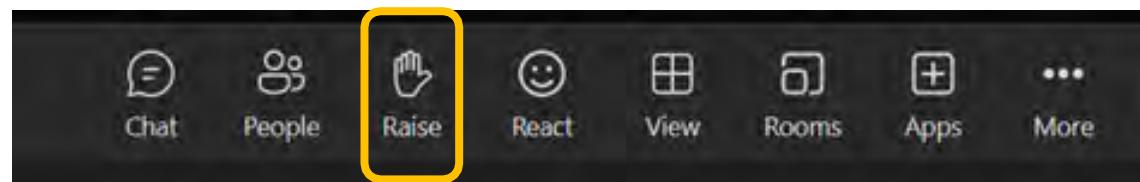


Q&A

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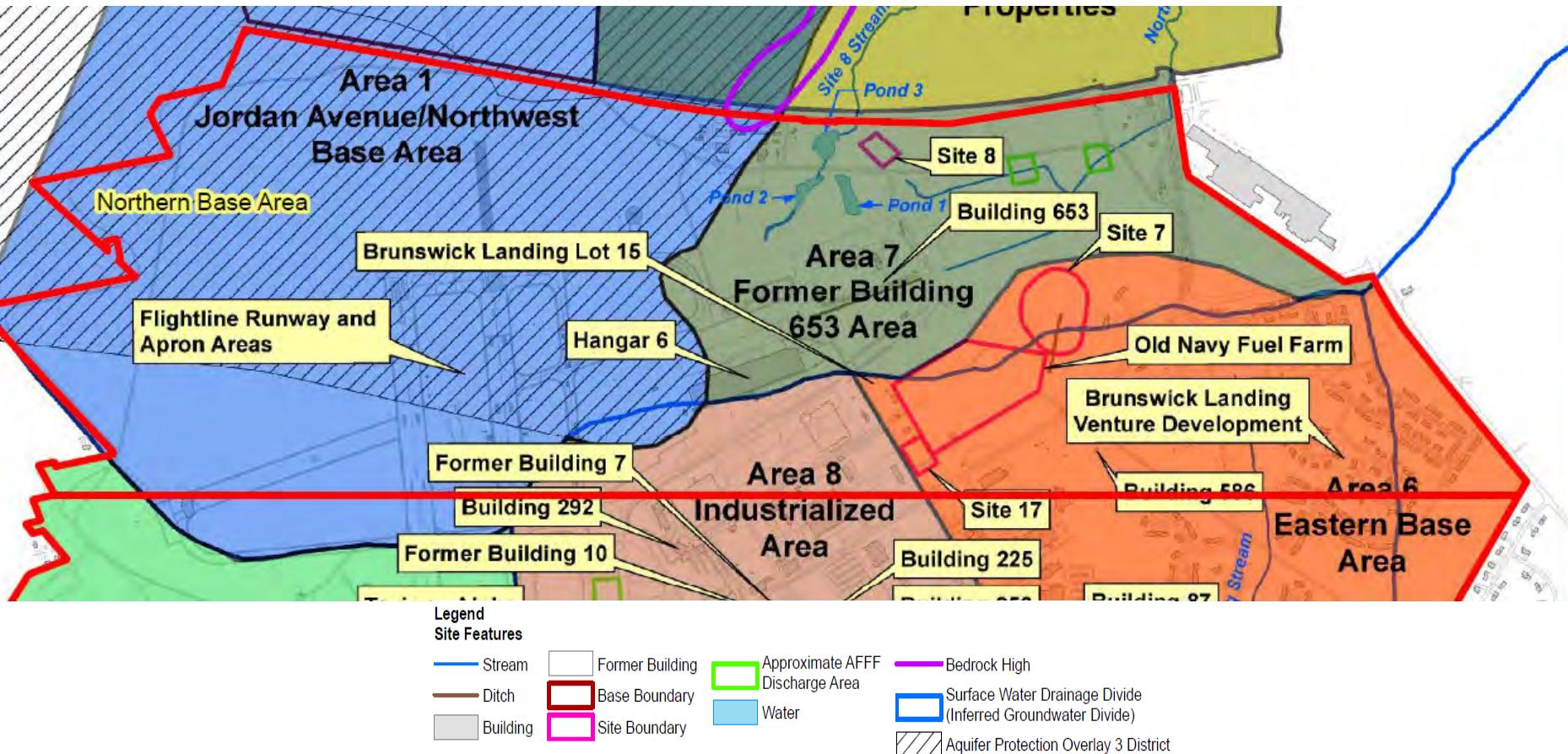


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Northern Base Area (Area 7) – PFAS RI Analytical Results



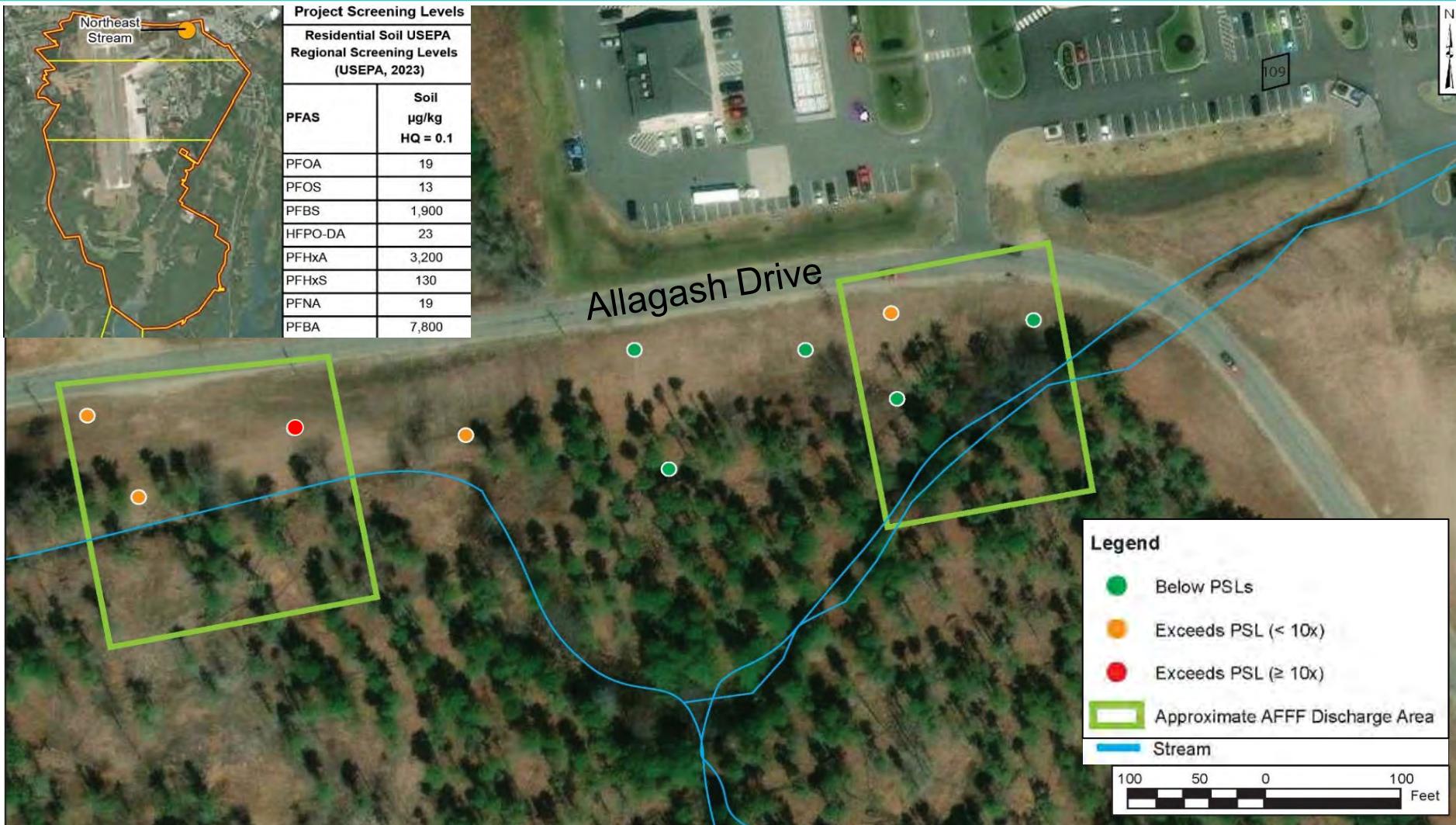
Major Site Activity Updates

PFAS RI Soil PSLs



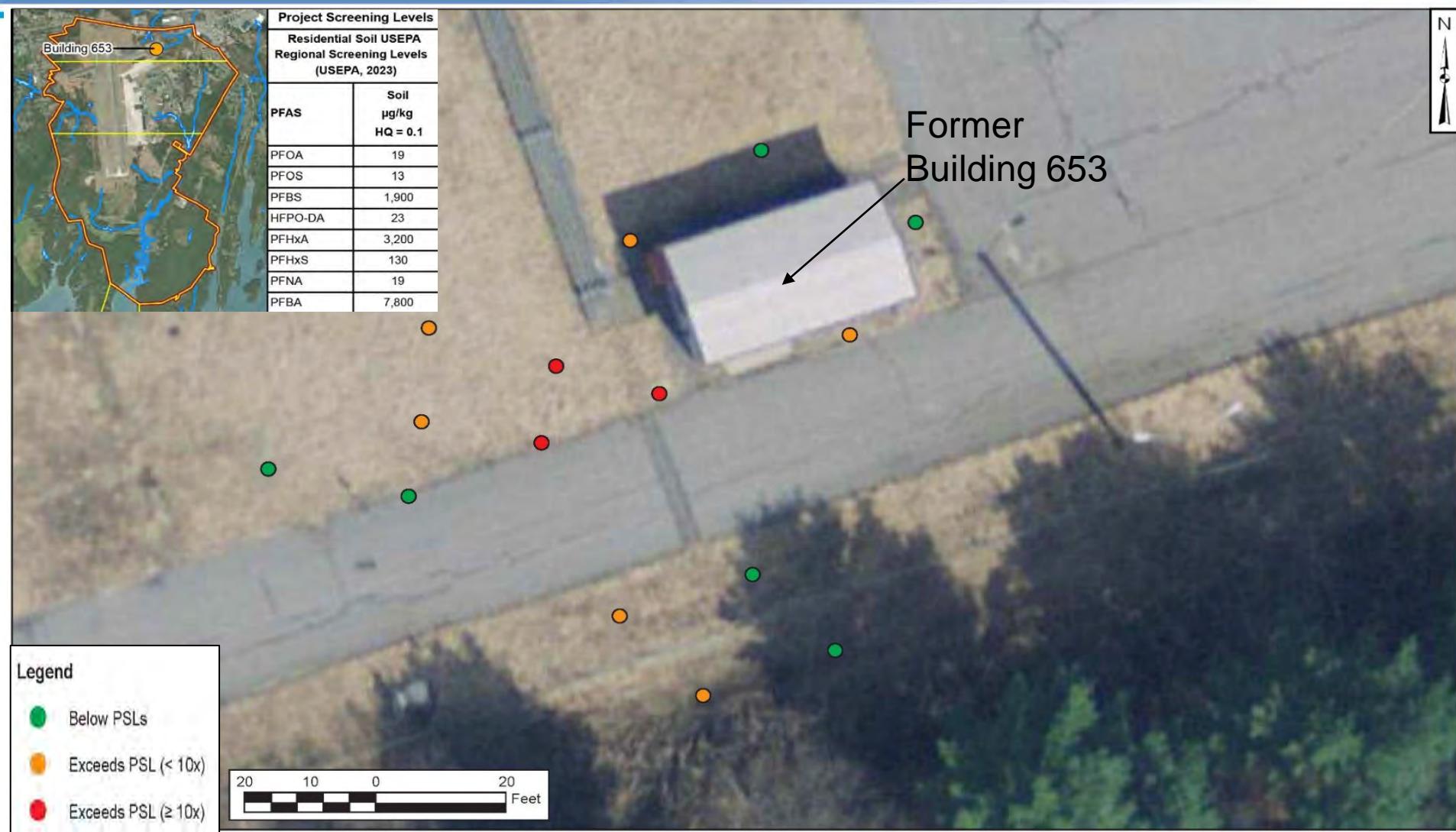
PFAS Compound	Project Screening Level (ug/kg)
PFOA	19
PFOS	13
PFBS	1,900
PFHxA	3,200
PFHxS	130
PFNA	19
PFBA	7,800
HFPO-DA (aka Gen-X)	23

Northern Base Area (Area 7) – Allagash Drive Soil Sample Results



PSL exceedance for only PFOS in 5 soil borings at concentrations ranging from 15.7 to 763 $\mu\text{g/kg}$

Northern Base Area (Area 7) – Building 653 Soil Results



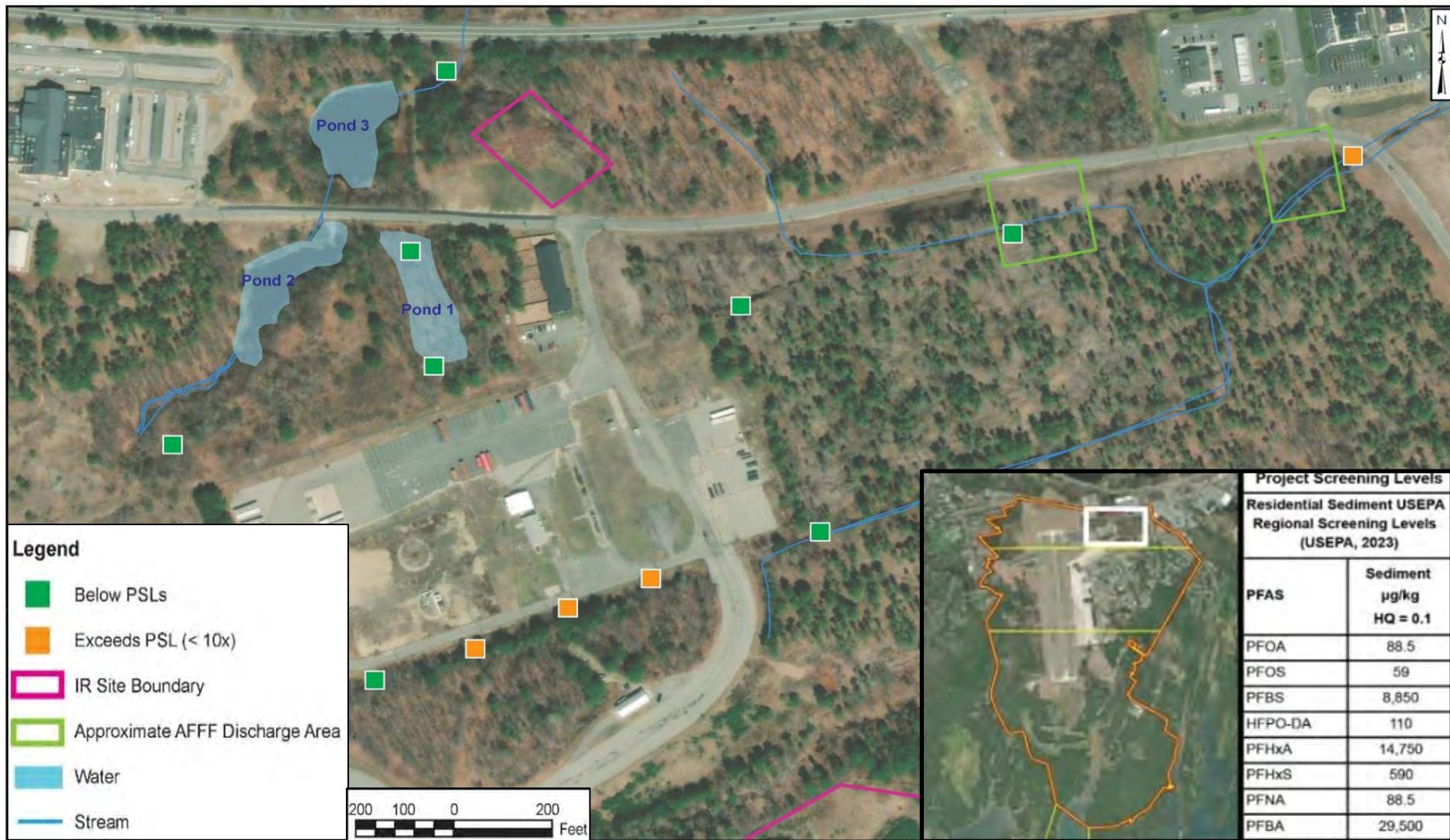
Major Site Activity Updates

PFAS RI Sediment PSLs



PFAS Compound	Project Screening Level (ug/kg)
PFOA	88.5
PFOS	59
PFBS	8,850
PFHxA	14,750
PFHxS	590
PFNA	88.5
PFBA	29,500
HFPO-DA (aka Gen-X)	110

Northern Base Area (Area 7) – Sediment Results



PSL exceedance for only PFOS in 4 samples at concentrations ranging from 60 to 270 $\mu\text{g}/\text{kg}$

Major Site Activity Updates

PFAS RI Surface Water/Stormwater/Porewater PSLs



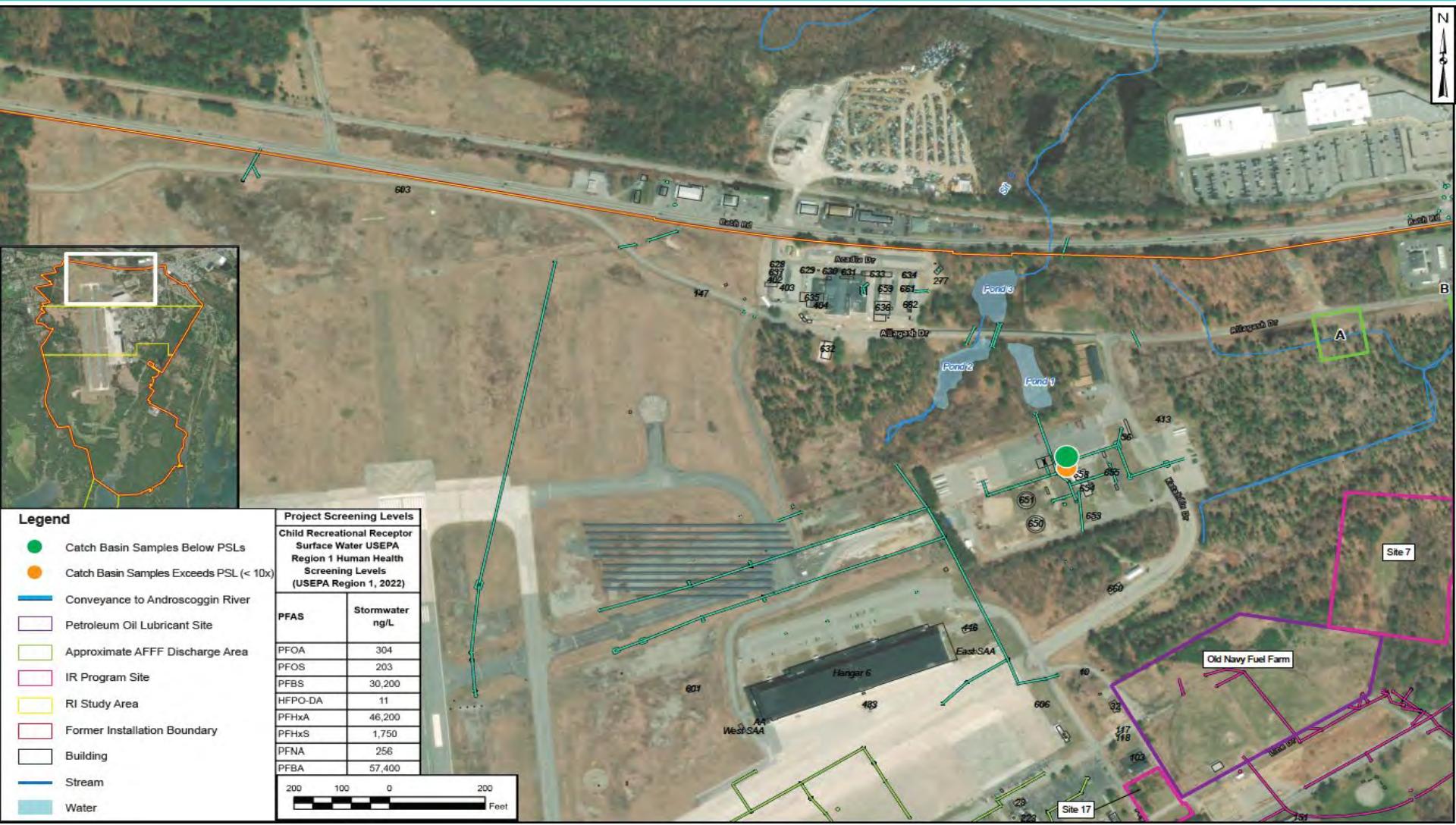
PFAS Compound	Project Screening Level (ng/L)
PFOA	304
PFOS	203
PFBS	30,200
PFHxA	46,200
PFHxS	1,750
PFNA	256
PFBA	57,400
HFPO-DA (aka Gen-X)	11

Northern Base Area (Area 7) – Surface Water Results



PSL exceedance for only PFOS in 10 samples at concentrations ranging from 230 to 4,200 ng/L

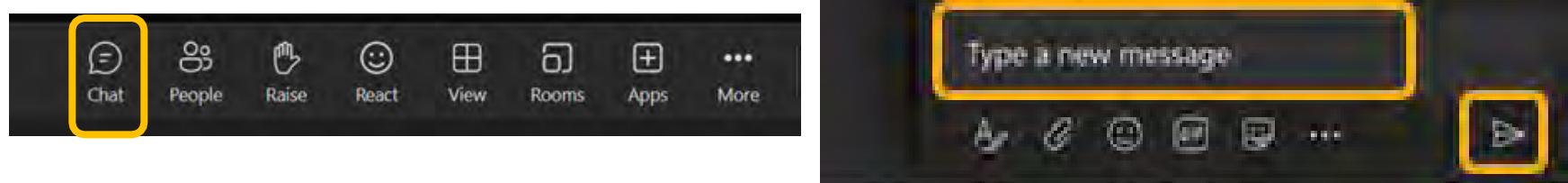
Northern Base Area (Area 7) – Stormwater Results



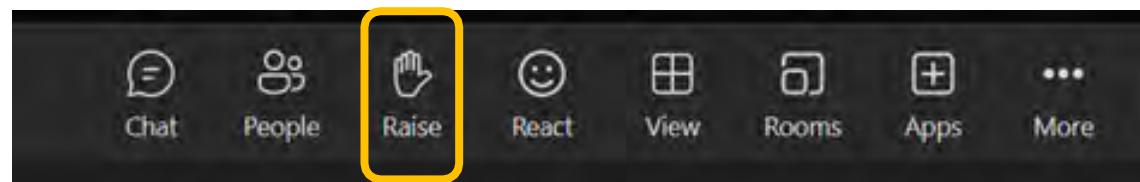
PSL exceedance for only PFOS in 1 stormwater sample at concentration of 1,380 ng/L

Q&A

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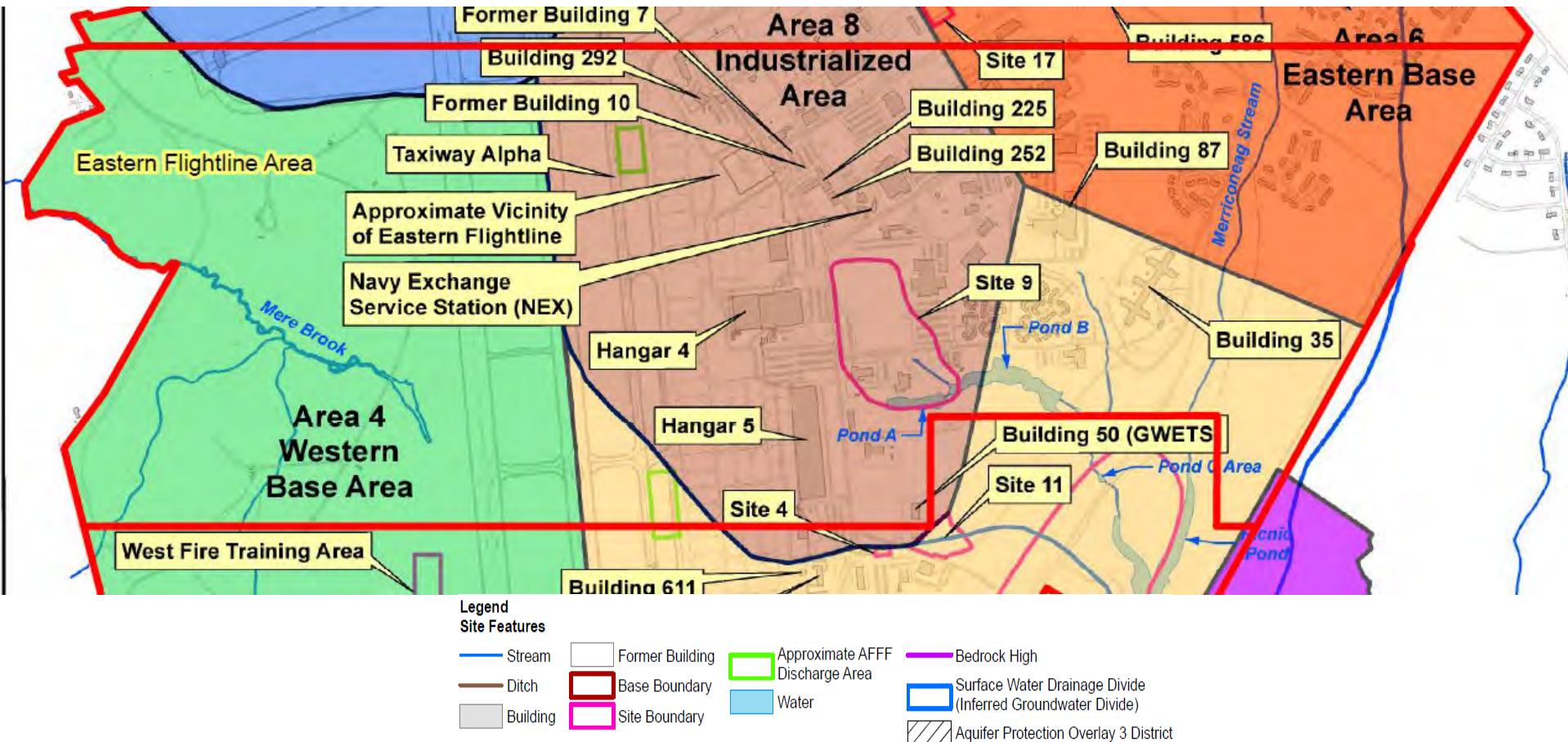
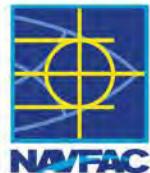


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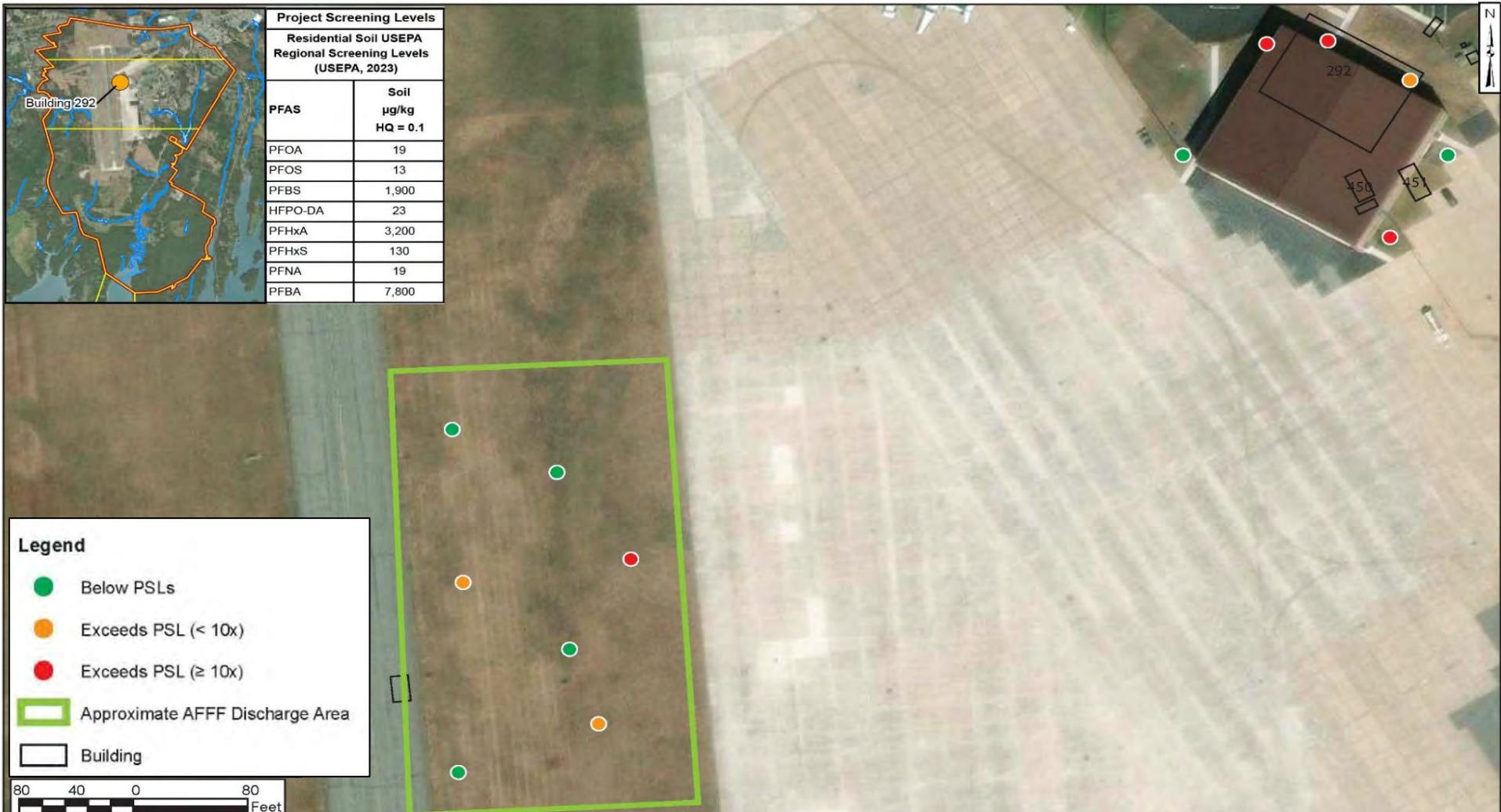


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Eastern Flightline (Area 8) - PFAS RI Analytical Results



Eastern Flightline (Area 8) - Building 292 Soil Results

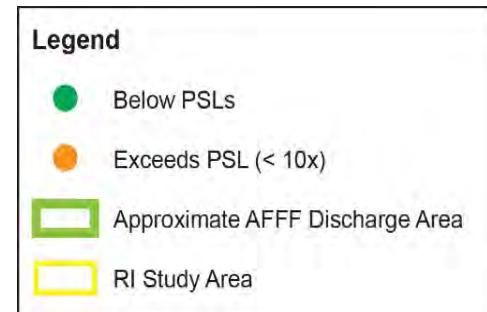
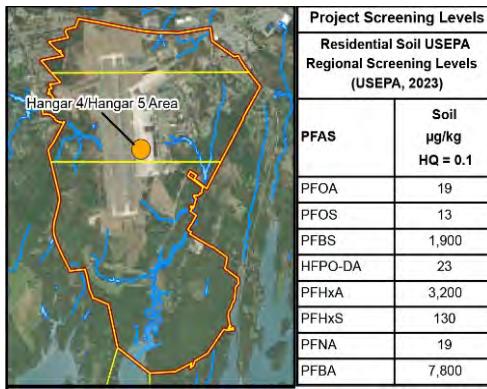


PSL exceedance for PFOA in 3 borings at concentrations ranging from 21.6 to 45.6 ug/kg, and for PFOS in 7 soil borings at concentrations ranging from 14.5 to 202 ug/kg

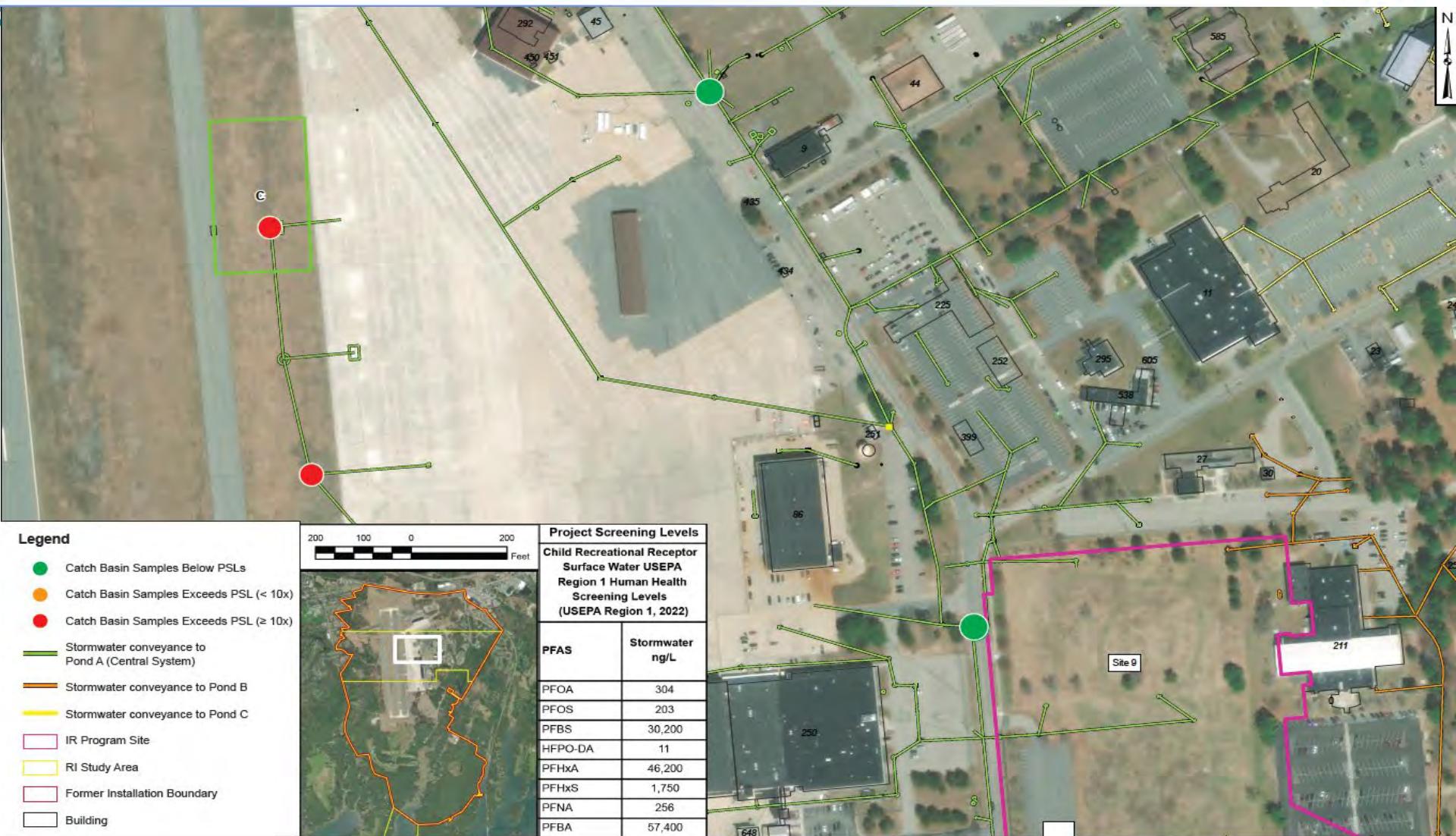
Eastern Flightline Area (Area 8) - Hangar 4/5 Area Soil Results



PSL exceedance for only PFOS in 2 soil borings at concentrations ranging from 16.4 to 21.6 ug/kg

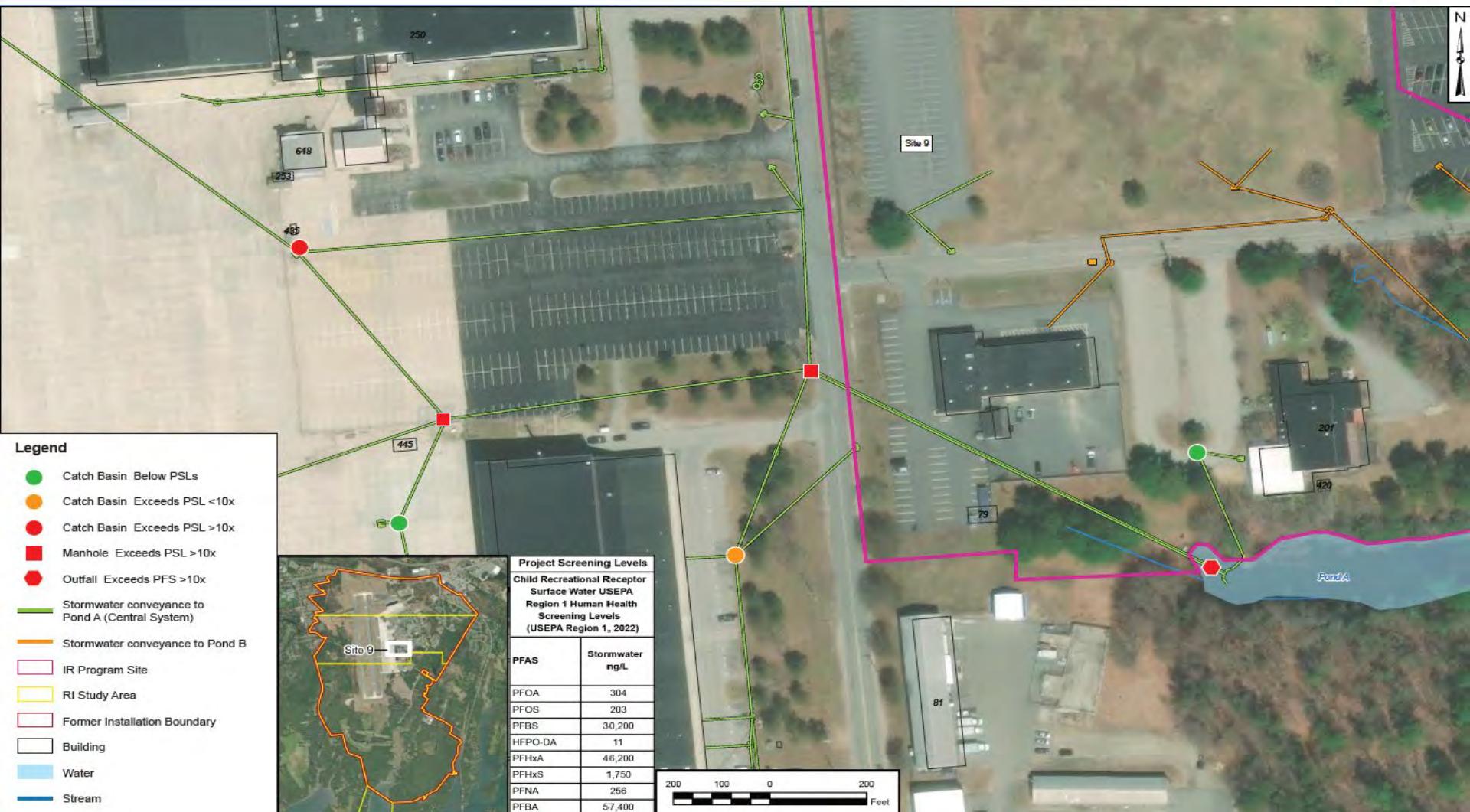


Eastern Flightline Area (Area 8) – North Stormwater Results



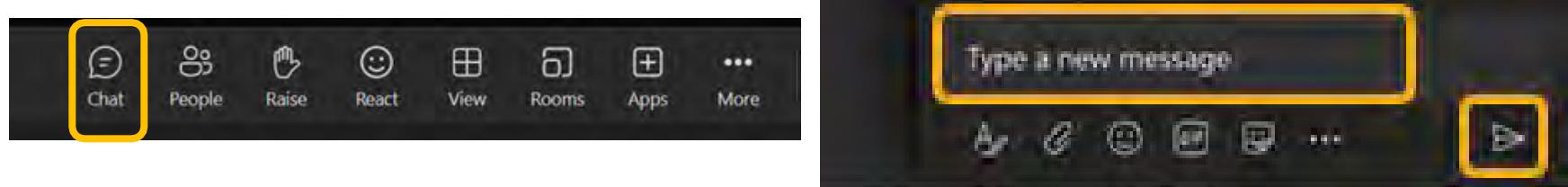
PSL exceedance for only PFOS in 2 samples at concentrations ranging from 491 to 5,590 ng/L

Eastern Flightline Area (Area 8) – South Stormwater Results

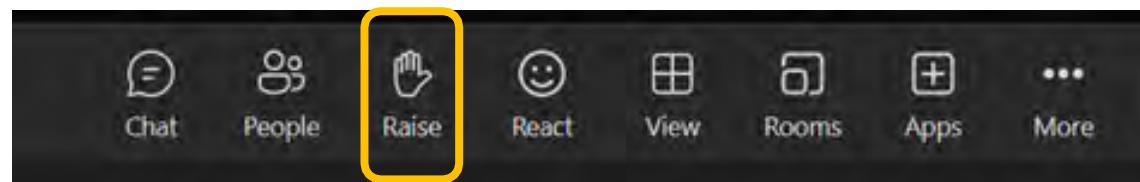


Q&A

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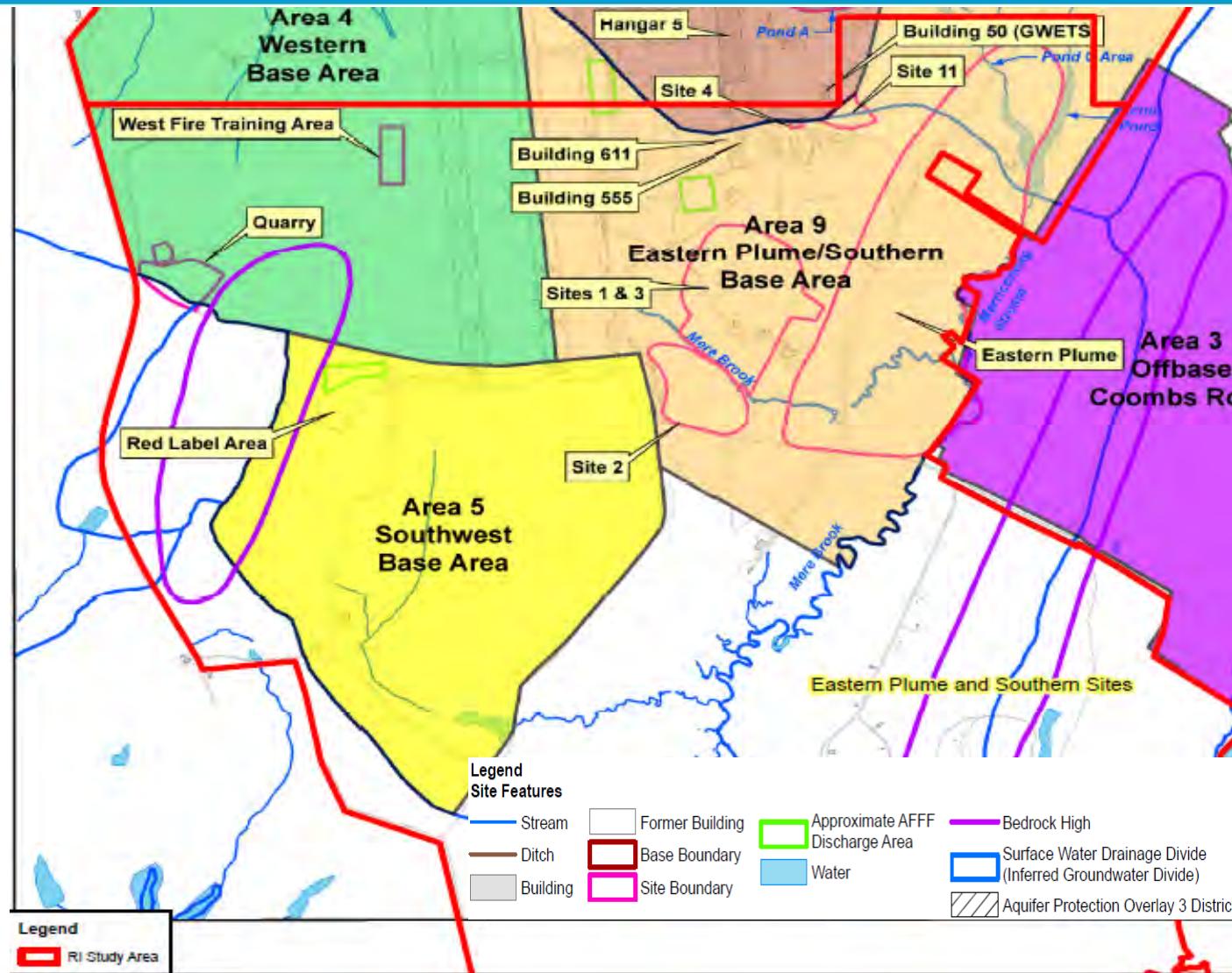


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Eastern Plume Area (Area 9) – PFAS RI Analytical Results

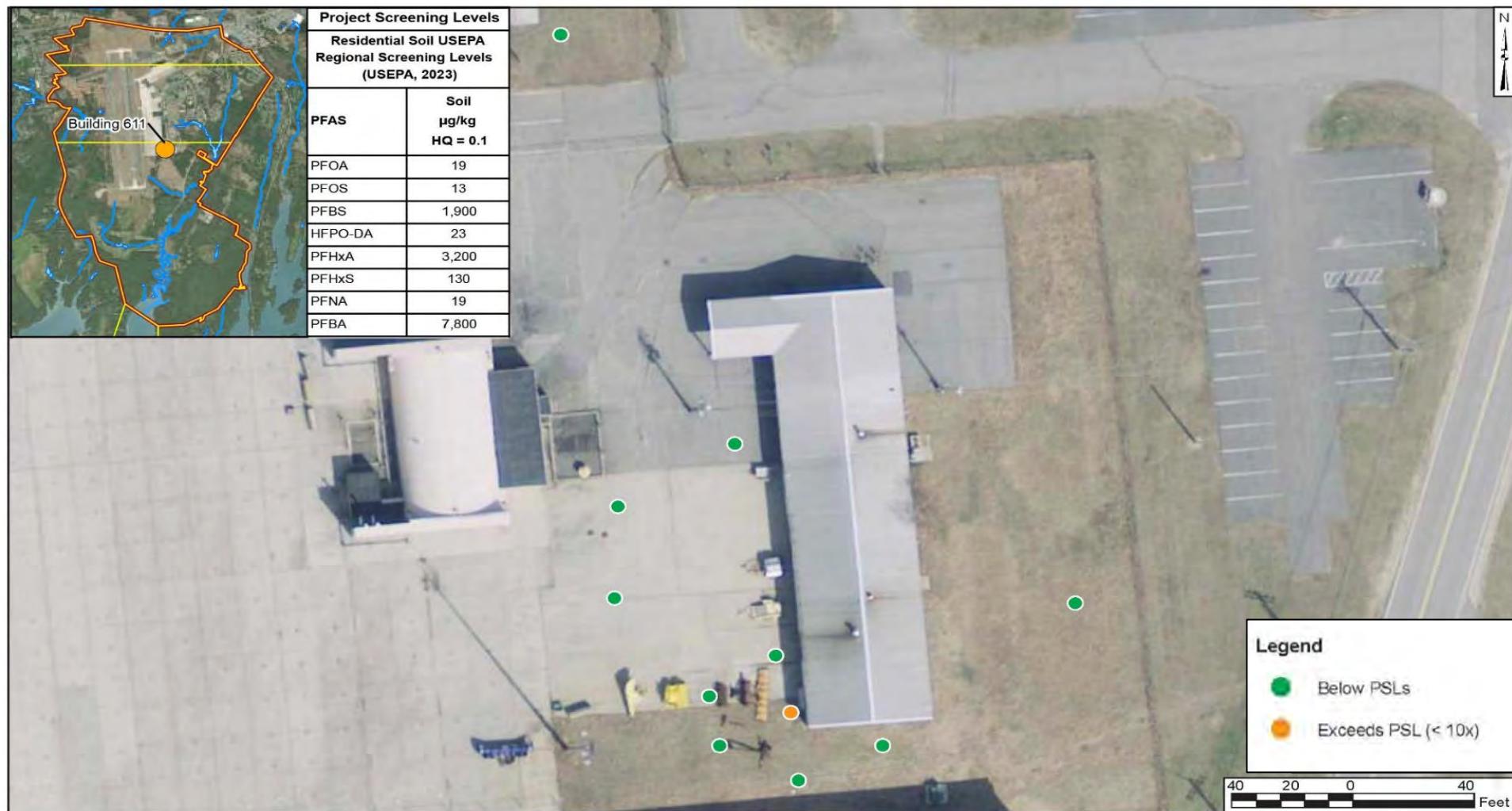


Eastern Plume Area (Area 9) – Building 555 Area Soil Results



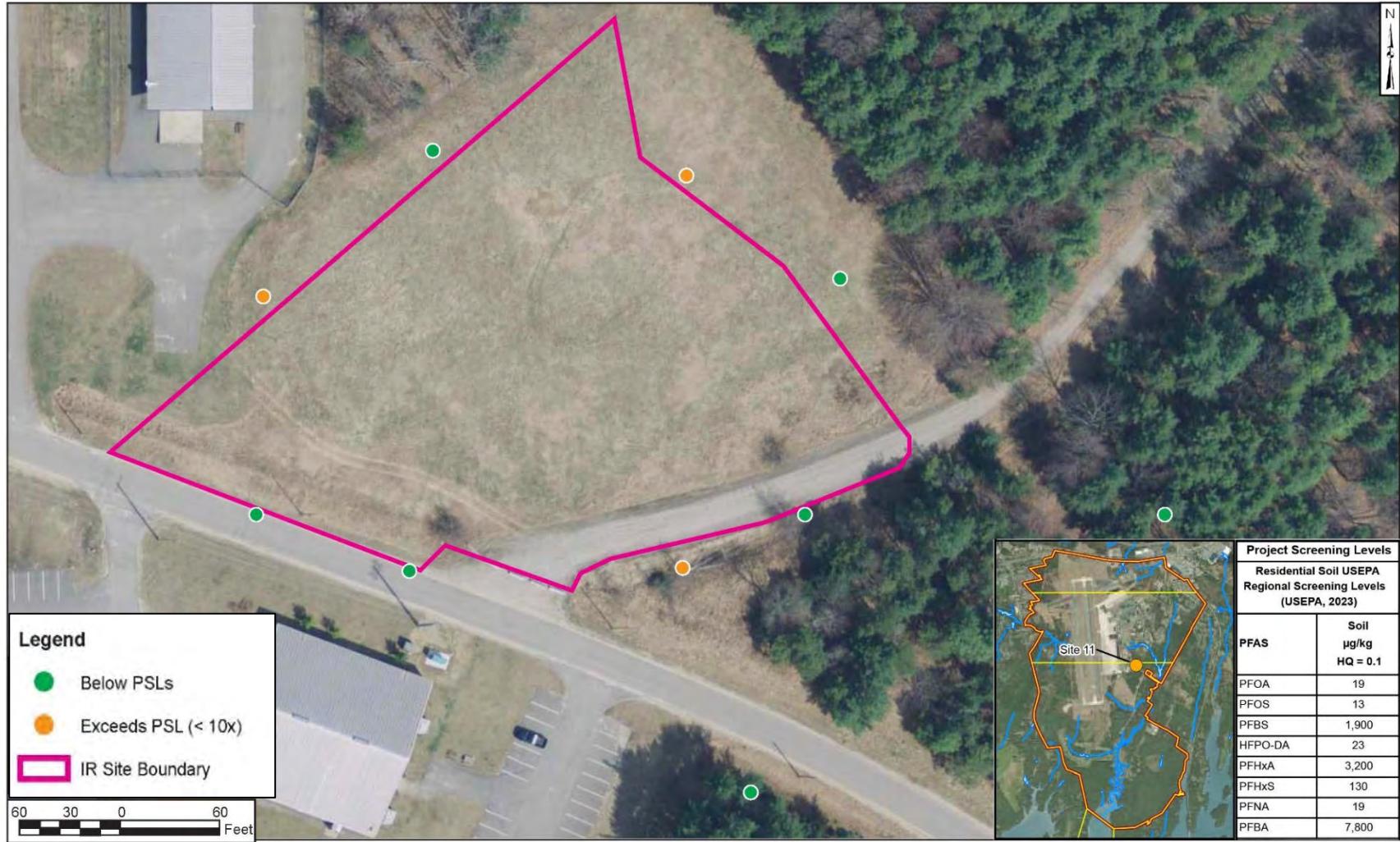
No PSL exceedances; detected PFAS concentrations ranging from 0.496 to 4.62 ug/kg

Eastern Plume Area (Area 9) – Building 611 Area Soil Results



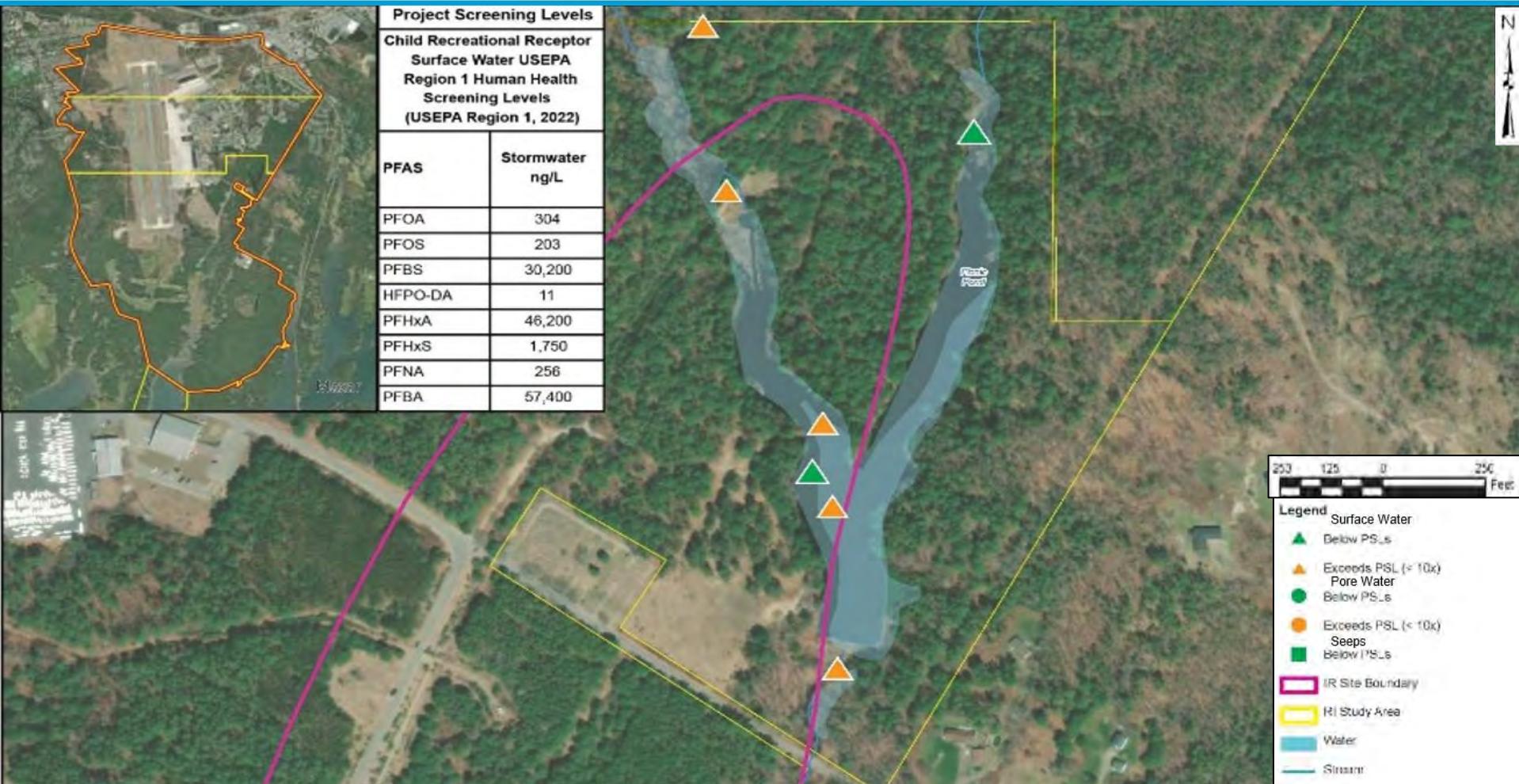
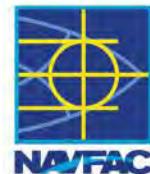
One PFOS exceedance in soil sample collected in 2012 at a concentration of 220 $\mu\text{g}/\text{kg}$; no PSL exceedances during RI sampling; detected PFAS concentrations ranging from 0.25 to 12.2 $\mu\text{g}/\text{kg}$

Eastern Plume Area (Area 9) – Site 11 Area Soil Results



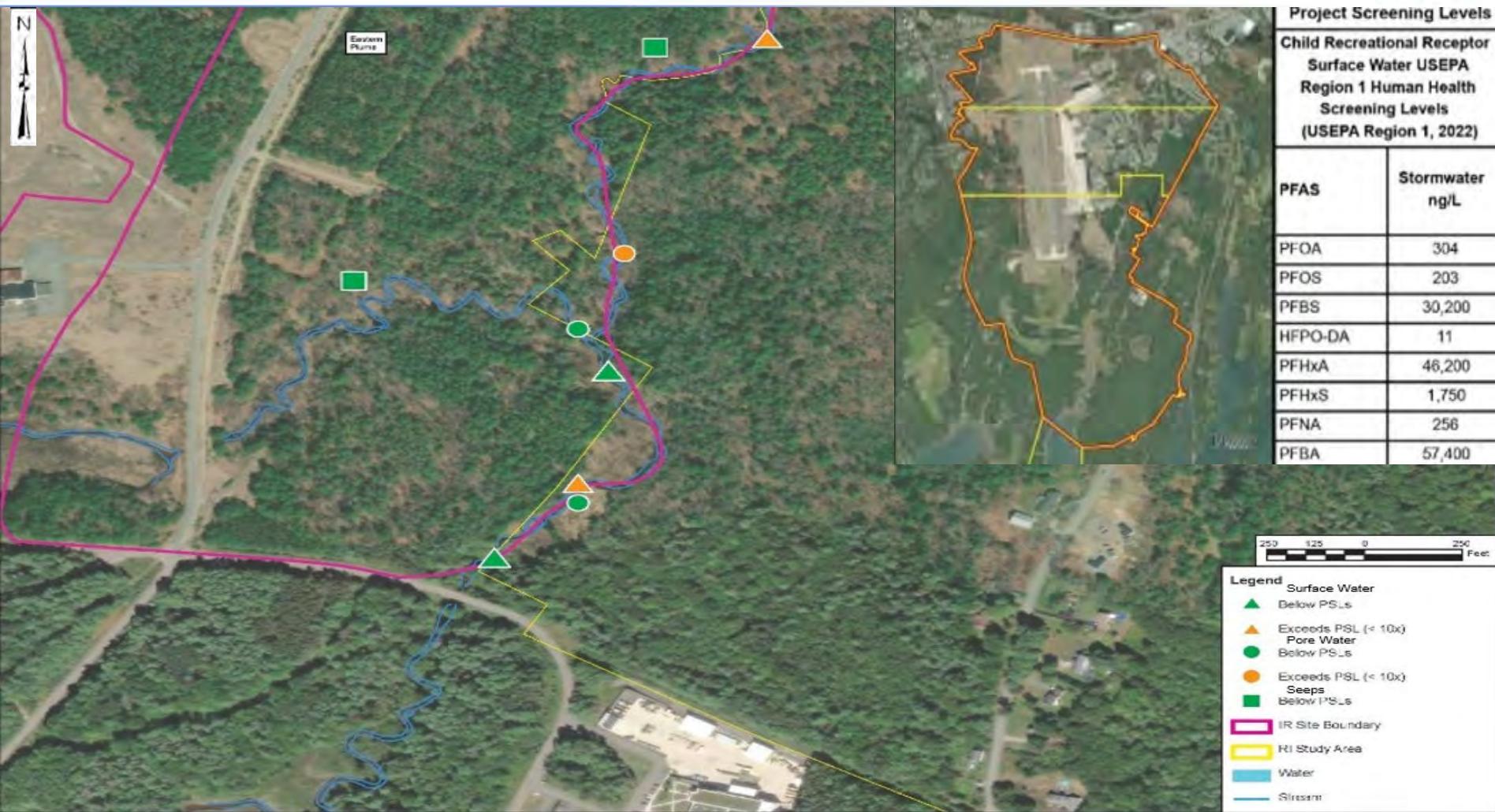
PSL exceedance for PFOA in 1 boring at a concentration of 90.2 $\mu\text{g}/\text{kg}$, and for PFOS in 3 soil borings at concentrations ranging from 23.1 to 67.4 $\mu\text{g}/\text{kg}$

Eastern Plume Area (Area 9) – Picnic Pond Surface Water Results



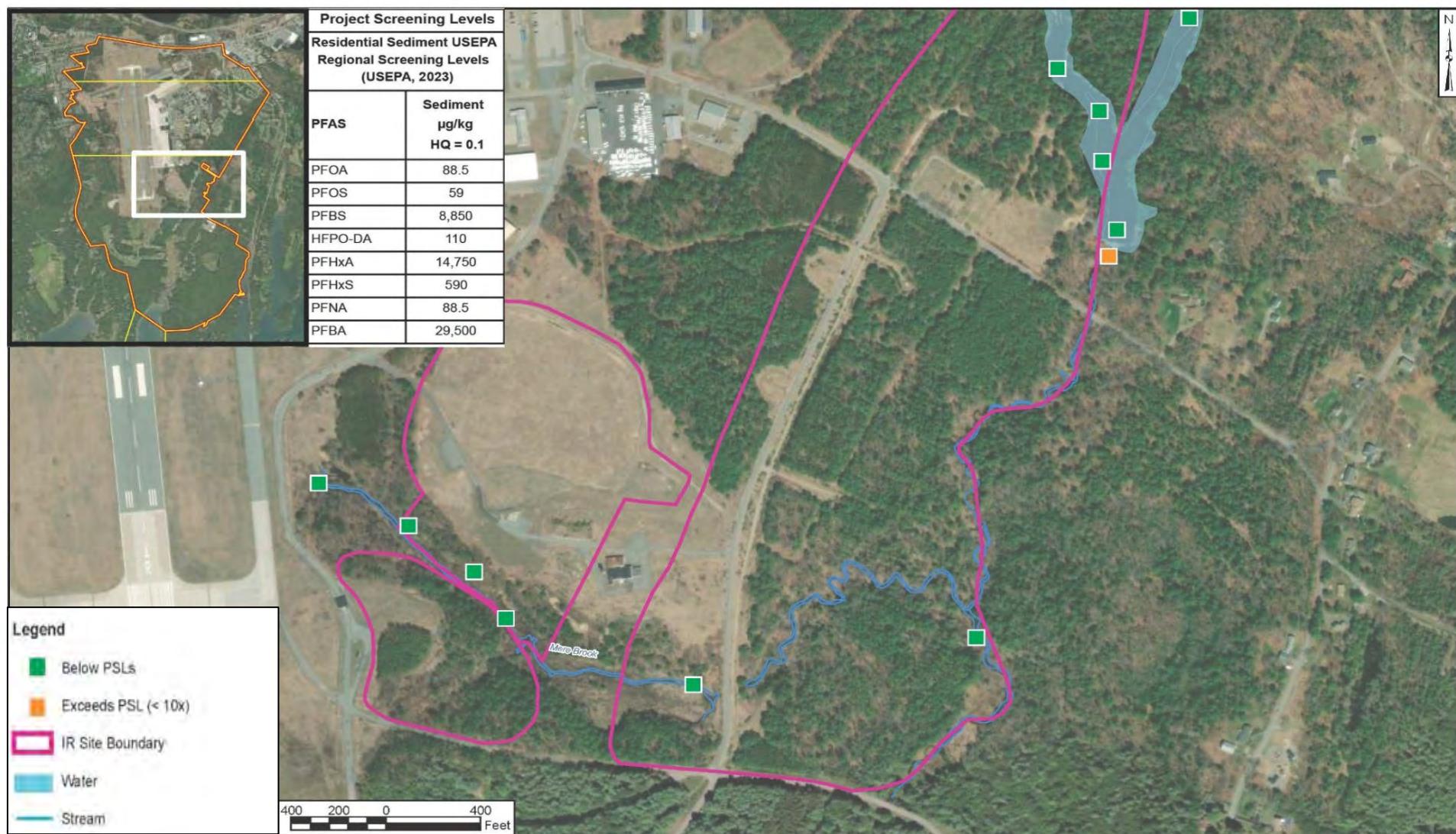
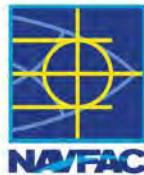
PSL exceedance for only PFOS in 5 samples at concentrations ranging from 220 to 779 ng/L

Eastern Plume Area (Area 9) – Merriconeag Stream & Mere Brook Surface Water Results



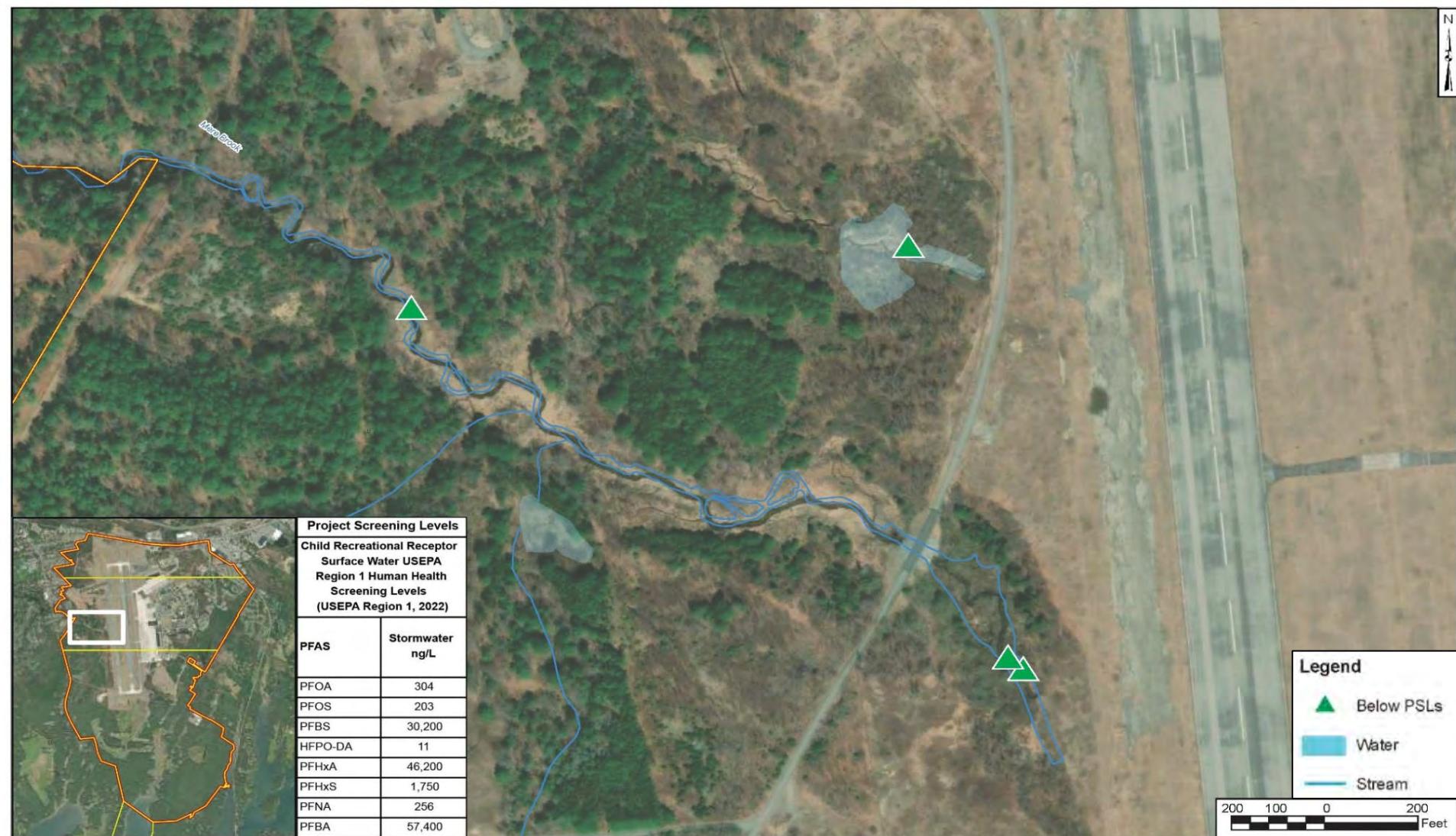
PSL exceedance for PFOS in 3 samples ranging from 210 to 1,110 ng/L; one PFOA PSL exceedance at 990 ng/L

Eastern Plume (Area 9) – Sediment Results



PSL exceedance for only PFOS in 1 sample at concentration of 245 $\mu\text{g/kg}$

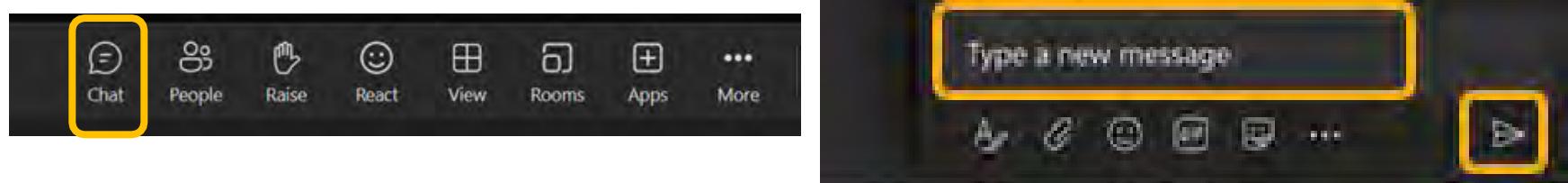
Mere Brook (Area 4) – Surface Water Results



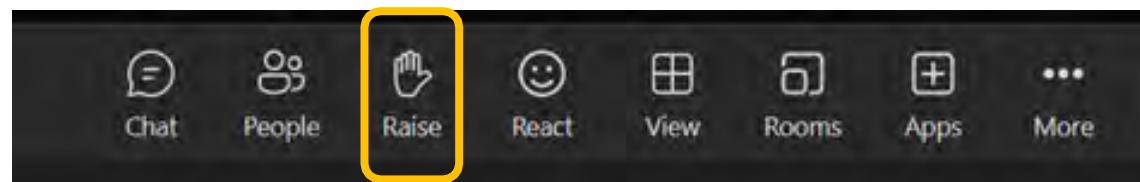
No PSL exceedances; detected PFAS concentrations ranging from 1.5 to 38.2 ng/L

Q&A

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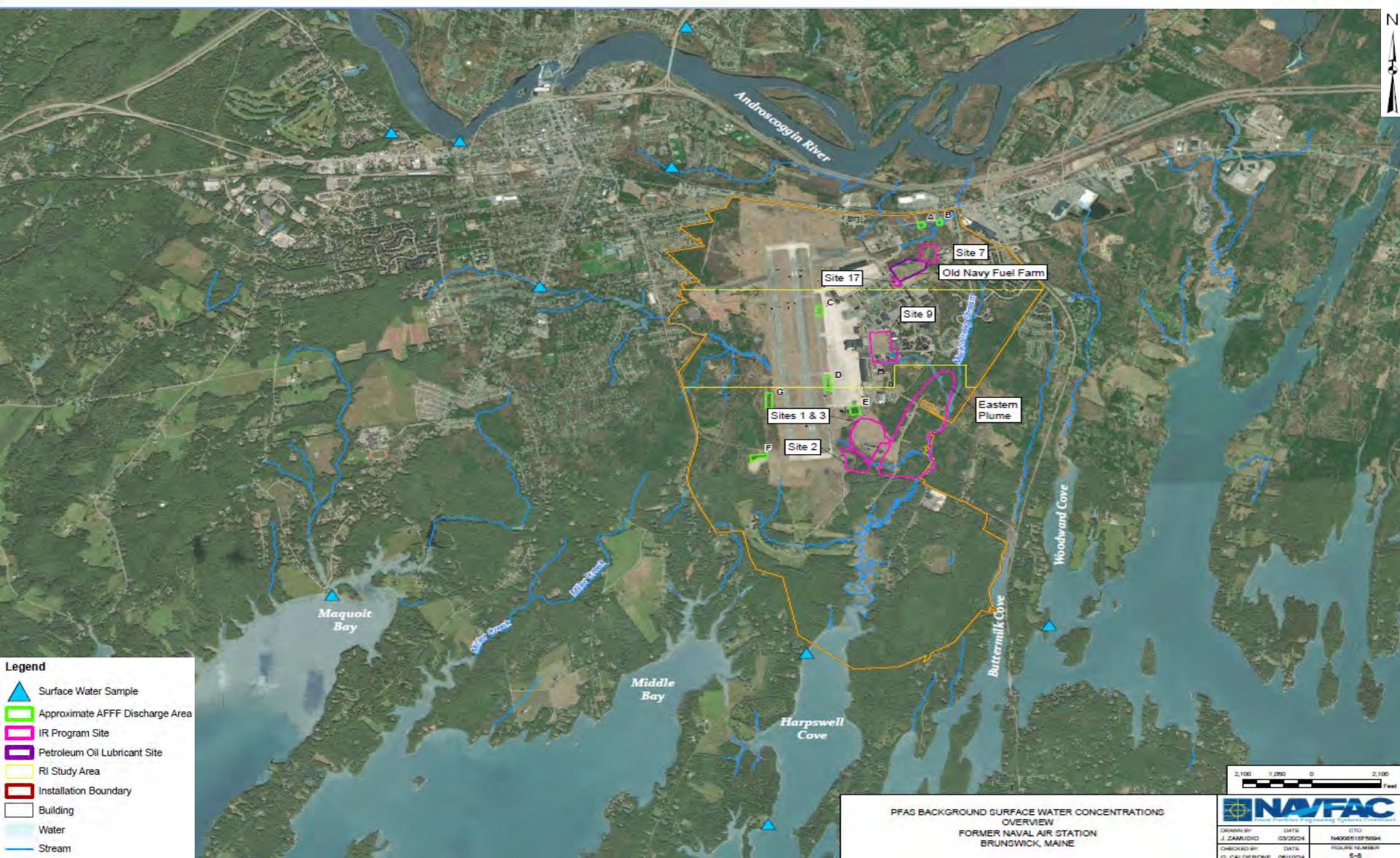
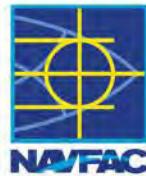


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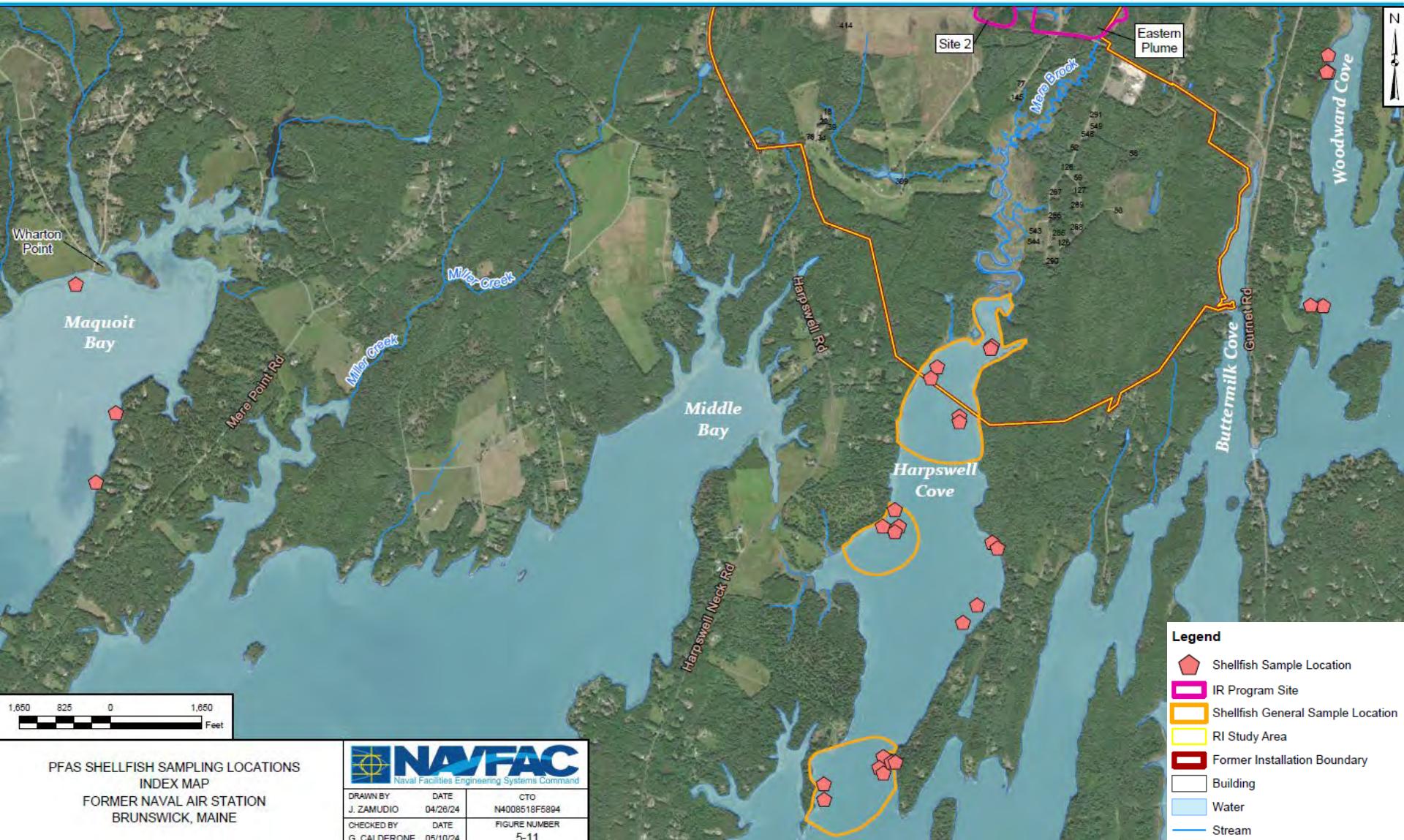


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Background Areas – Surface Water and Sediment PFAS RI Results



Shellfish Sampling Locations



Major Site Activity Updates

PFAS RI Shellfish Tissue PSLs



PFAS Compound	Project Screening Level (ug/kg)
PFOA	0.838
PFOS	0.559
PFBS	83.8
PFHxA	140
PFHxS	5.59
PFNA	0.838
PFBA	280
HFPO-DA (aka Gen-X)	0.838

- Shellfish samples were analyzed via EPA Method 1633 which includes 40 PFAS Compounds

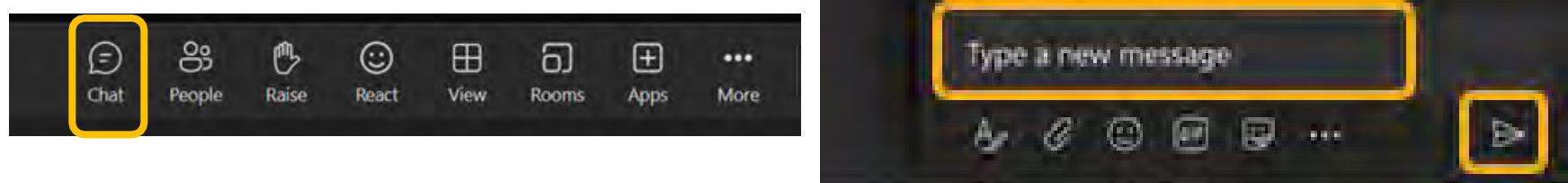
Shellfish Tissue Results



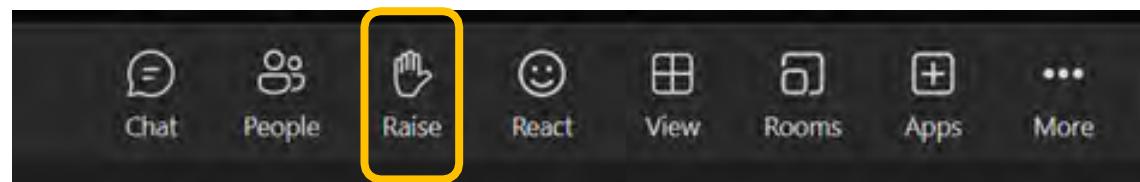
- No exceedances in shellfish of the 8 PFAS compounds that have PSLs.
- Only 4 detections of the 8 PFAS that have PSLs and were found in 4 samples (1 detection was in a replicate sample):
 - 3 PFOS detections in clam samples collected in the Northern Portion of Harpswell Cove (including the 1 replicate sample).
 - 1 PFHxS detection in the Blue Mussel sample collected in Woodward Cove.

Q&A

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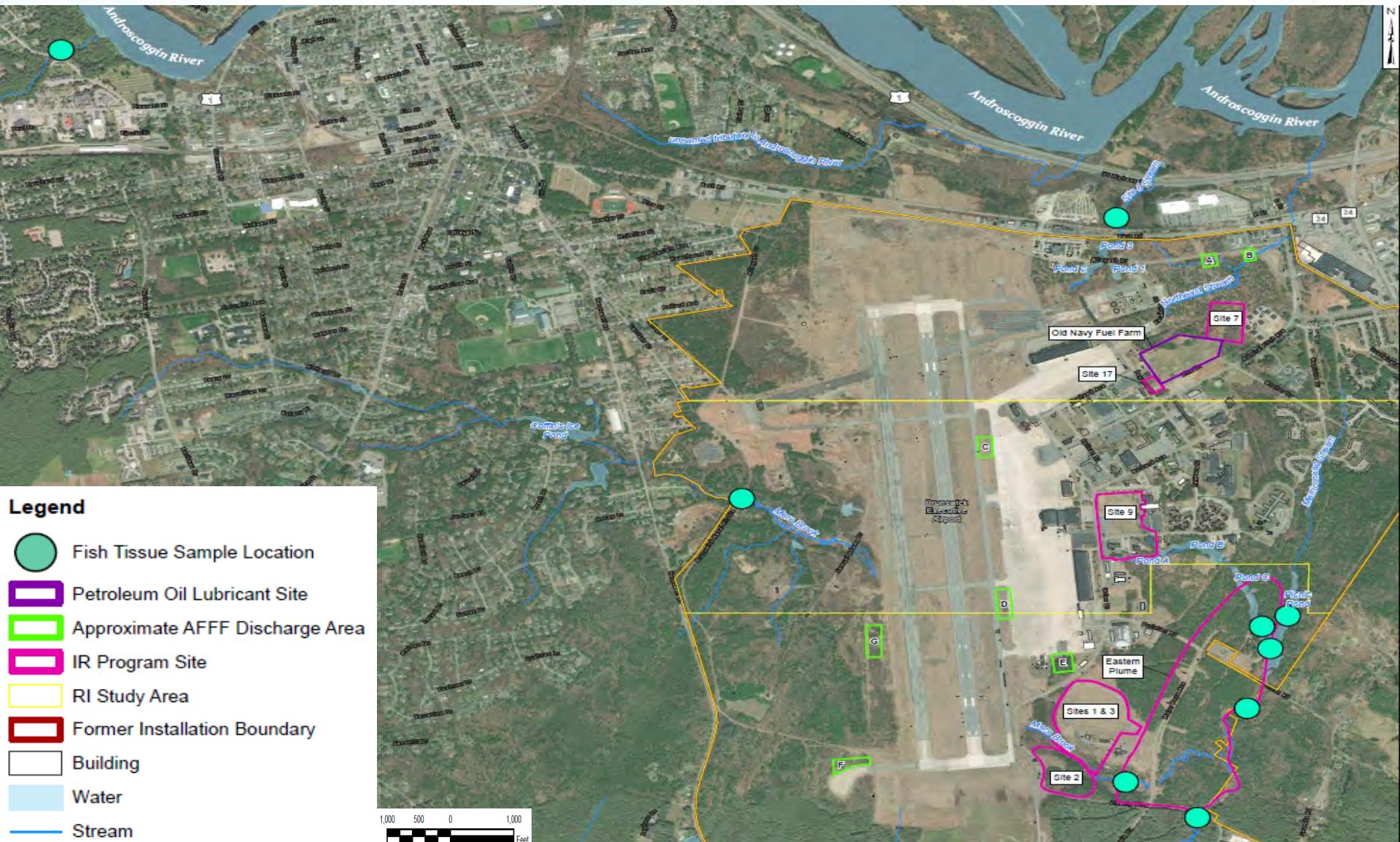


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Finned Fish Sampling Locations



Major Site Activity Updates

PFAS RI Finned Fish PSLs



PFAS Compound	Project Screening Level (ug/kg)
PFOA	0.782
PFOS	0.521
PFBS	78.2
PFHxA	130
PFHxS	5.21
PFNA	0.782
PFBA	260
HFPO-DA (aka Gen-X)	0.782

- Finned fish samples were analyzed via EPA Method 1633 which includes 40 PFAS Compounds

Finned Fish Tissue Results

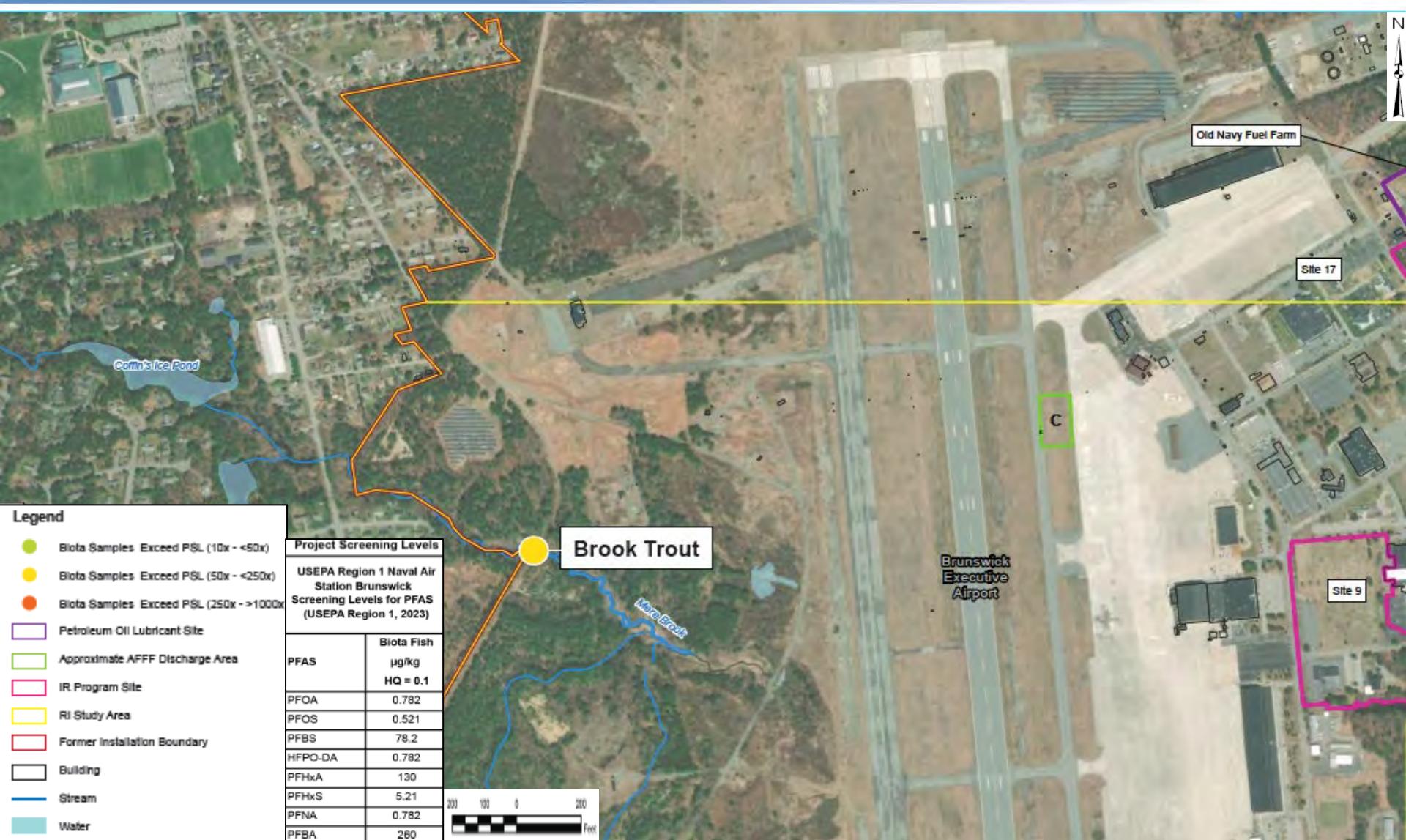


- PFOS exceeded PSL in all samples collected including the background (reference location at MEDEP Station 634)
- PFOA, PFHxS, and PFNA were the only other PFAS which exceeded their respective PSLs in any of the samples collected
- Highest concentrations of PFAS were in samples collected from Picnic Pond and Merriconeag Stream

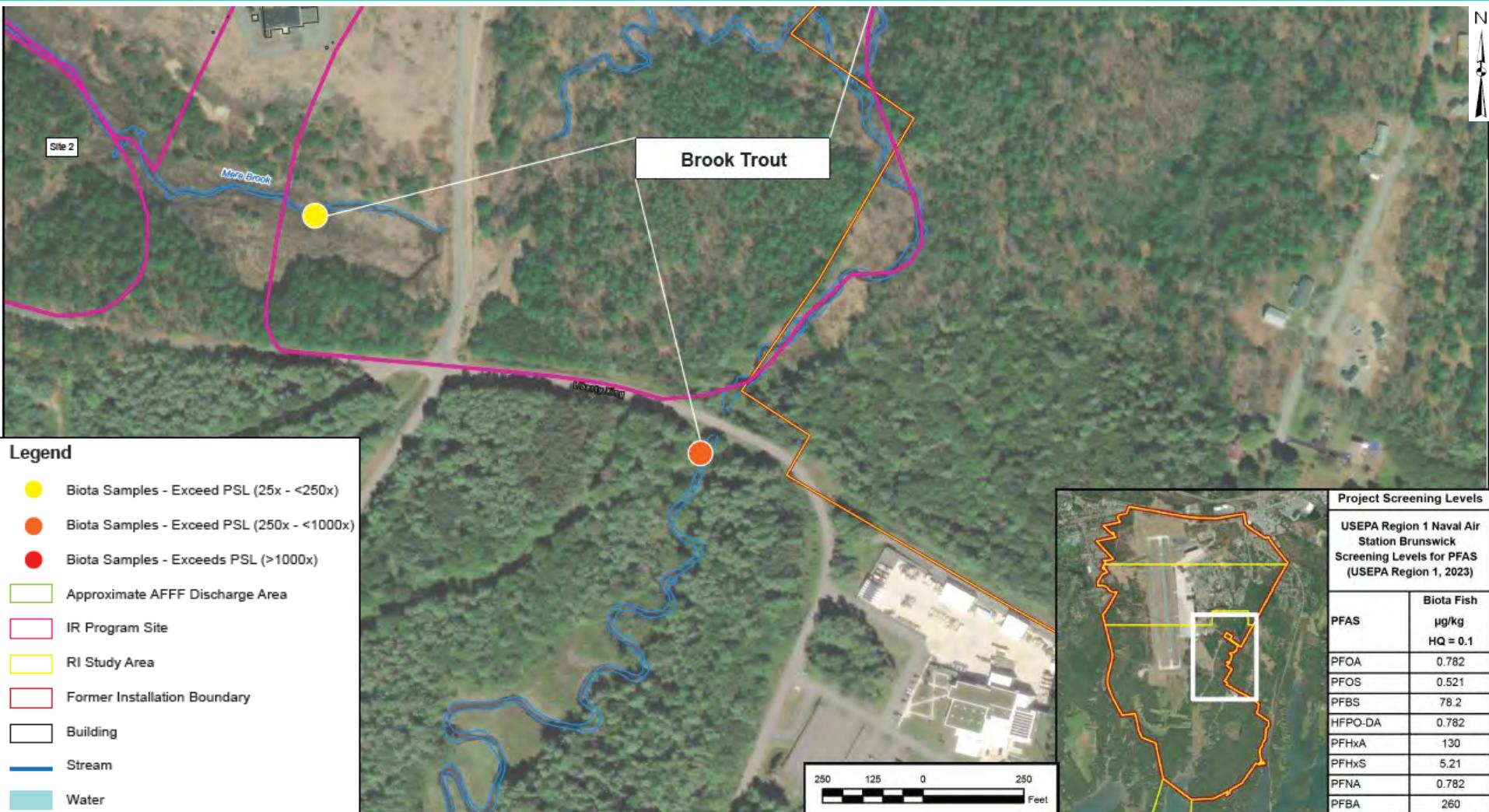
Finned Fish Tissue Results – Northern Base Area and Reference Location



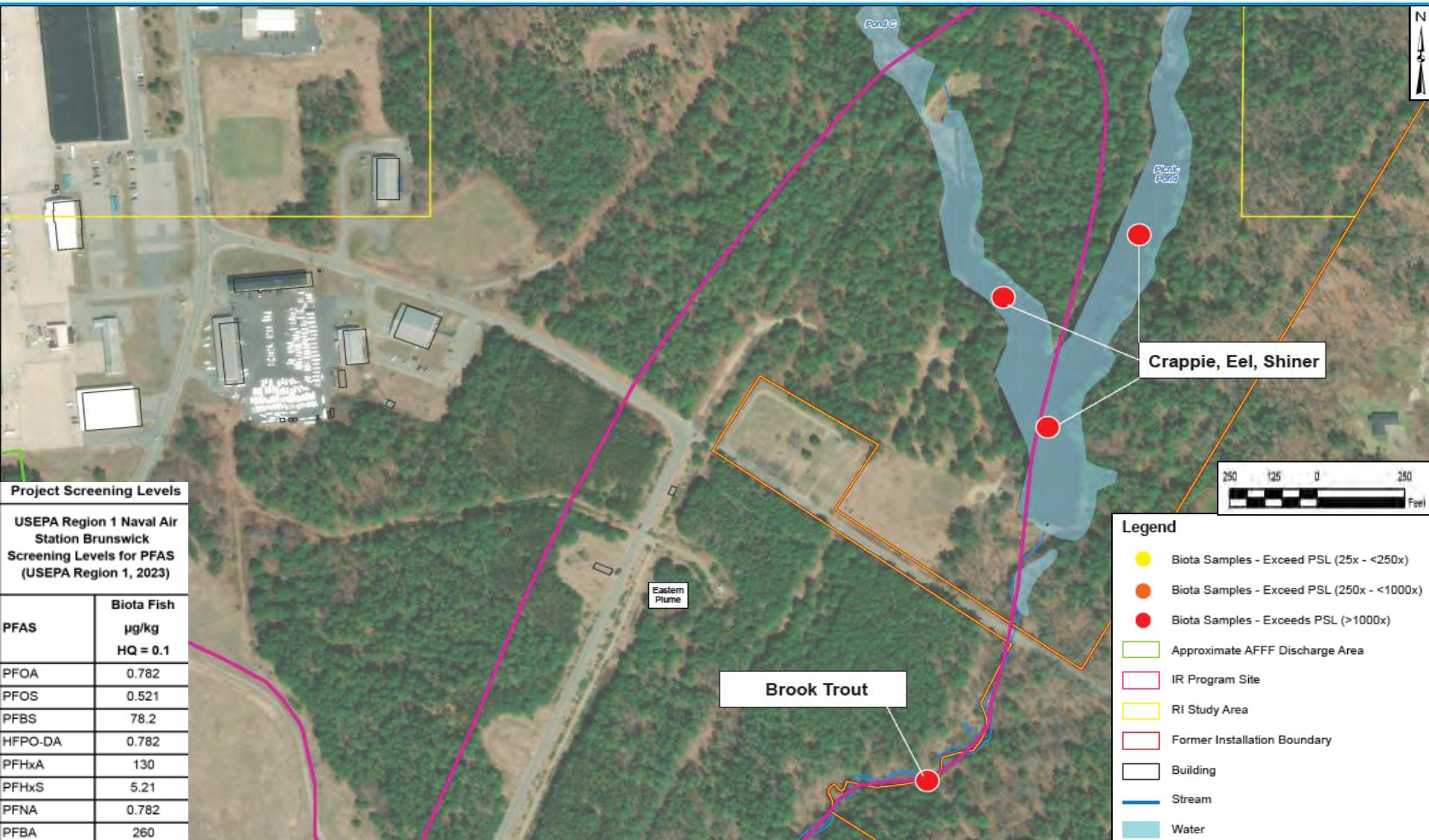
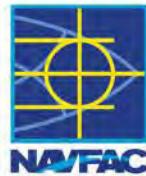
Finned Fish Tissue Results – Mere Brook – Upstream of Runway



Finned Fish Tissue Results – Mere Brook - Downstream of Runway Area and Merriconeag Stream Confluence



Finned Fish Tissue Results – Picnic Pond and Merriconeag Stream



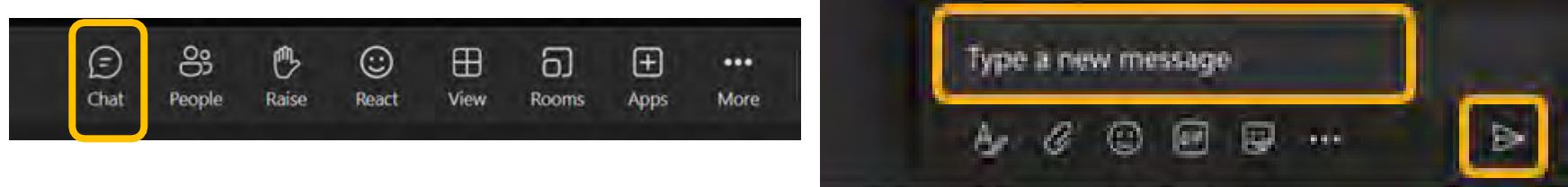
Key Findings - Biota



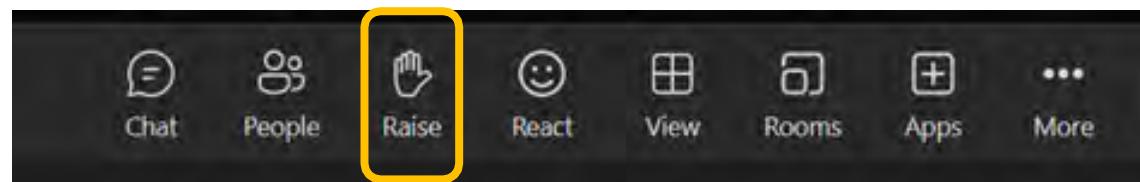
- Increases in PFAS concentrations observed in fish tissue samples from Upstream to Downstream in Mere Brook and in Mere Brook below its confluence with Merriconeag Stream
- Whole body results were on average 1.5 – 2 times higher than the fillet results for all PFAS compounds detected
- Additional investigation is warranted for finned fish within NAS Brunswick streams.

Q&A

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Major Site Activity Updates

LUC Compliance Activities



Annual Land Use Control (LUC) Compliance Certification Process

- Properties on the former base are evaluated to determine if they are environmentally suitable for deed transfer or lease.
- Evaluation determines what notices, restrictions and covenants may be necessary for subject properties and are provided in a document known as a Finding of Suitability to Transfer (FOST) for properties that will be sold or in a Finding of Suitability to Lease (FOSL) for properties that will be leased.
- The FOST or FOSL includes the LUCs for individual properties.
- Property owner should receive a copy of the FOST/FOSL as part of the property sale.



BRAC Program Management Office East
Philadelphia, Pennsylvania

Final
Finding of Suitability to Transfer 2023-1
Parcels AIR-15 and AIR-17
Approximately 4.08 Acres

Former Naval Air Station Brunswick
Brunswick, Maine

May 2023

Approved for public release: distribution unlimited

Major Site Activity Updates

LUC Compliance Activities



Annual LUC Compliance Certification Process

- To ensure property owners/lessees are aware of LUCs associated with their property, the Navy sends a form to property owners listing each property's LUCs.
- Forms are referred to as “LUC Compliance Certification” forms as the property owner is to certify (by means of signing the form) indicating that they acknowledge and have complied with the LUCs associated with the property.
- Forms are mailed out annually (typically January) to be reviewed and signed by the property owner.
- Forms are sent via certified mail to confirm receipt.

Major Site Activity Updates

LUC Compliance Activities

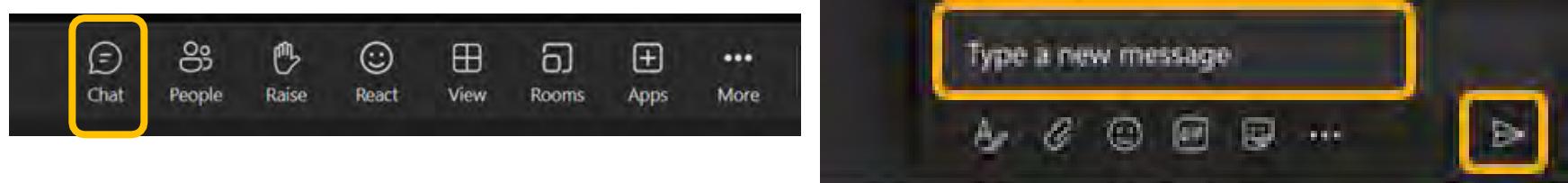


2023 Annual LUC Compliance Certification

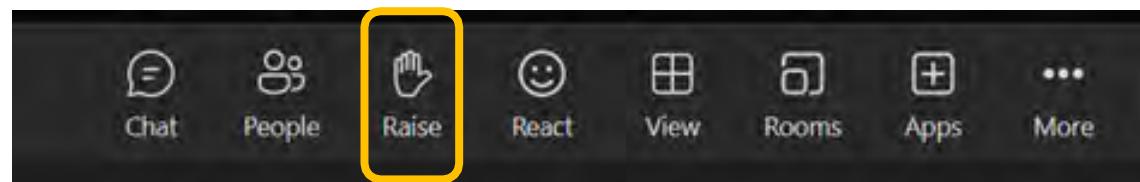
- Navy held a LUC Open House in September 2023 where property owners could stop in to ask questions regarding LUCs associated with their property.
- Certification forms for the 2023 calendar year were mailed out in January 2024 via certified mail.
- Navy held an additional LUC Open House in March 2024. Two sessions were held to accommodate schedule constraints; low turnout.
- Returned forms that are not picked up are reviewed to confirm address and resent via certified mail or regular mail.
- To date (2023):
 - 310 forms mailed out
 - 88 signed forms have been returned (28% return rate)
- Decrease in the number of 2023 signed forms received from prior year (2022)

Q&A

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Major Site Activity Updates

LUC Compliance Activities



Lessons Learned

- Positive feedback for reaching out to property owners with questions regarding the LUC certification forms and insight into how the homeowner associations (HOAs) function.
- Need to work with HOAs to verify properties within/excluded from the HOA as well as specific restrictions associated within the HOAs.
- Navy will continue to host Open Houses but will determine best time of day to increase attendance.
- Navy will develop a Fact Sheet with additional information regarding LUCs and include it with the 2024 LUC Certification Form mailing.
- Navy will review certification forms and implement changes to promote property owner's understanding and awareness.

CERCLA LUC Inspections

- Inspections and compliance with LUCs also occur on CERCLA sites which are non-residential properties.
- Annual inspections are performed to confirm compliance with the LUCs and determine if any corrective actions are required (e.g., fence repair). Sites include:
 - Sites 1 & 3, Site 2, Site 7, Site 9, Site 12, Site 17, Eastern Plume, and Quarry Area
- Draft 2023 LUC Inspection Report submitted in February 2024.
 - Recommendations for well repairs and additional No Trespassing signs
- 2024 LUC inspections anticipated to occur in the fall.

Major Site Activity Updates

LUC Compliance & Redevelopment Activities



Construction Permission

- For properties within Brunswick Landing, if planned construction activities involve any soil displacement and/or potential contact with groundwater, the Navy, in consultation with USEPA and MEDEP, must provide approval before the Town of Brunswick will approve a construction permit.
- Applicants are required to complete the Brunswick Landing Construction Permission Request form available from the Navy or on the Permits and Applications page of the Town of Brunswick Planning & Development website:

<https://www.brunswickme.org/235/Permits-Applications>

- Completed forms are submitted to MRRA for initial review. MRRA will forward the request to the Navy for review and approval. The Navy will notify MRRA when all permissions have been acquired.
- To date, 40 forms have been submitted and approved.

Major Site Activity Updates

Picnic Pond Sediment Remedial Action



- Dredging has been on-going at Ponds A, B, and Picnic Pond since 2022. To date, a total of 9,635 tons of material from Ponds A and B has been dredged and disposed off-site at a RCRA Subtitle C landfill. A total of 1,292 cubic yards of material from Picnic Pond has been dredged and stabilized. This material is awaiting disposal.
- Post-dredging confirmatory samples results from Pond A and Picnic Pond indicated that the Remedial Goals for the project were met and no further dredging would be necessary.



Major Site Activity Updates

Picnic Pond Sediment Remedial Action

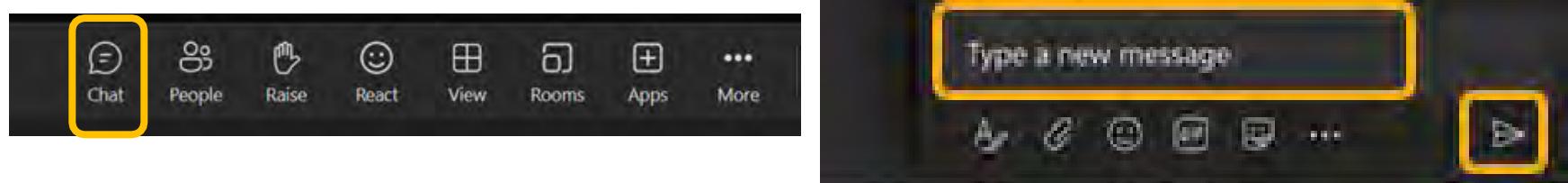


- During data evaluation of Pond B, it was determined that the data did not meet the standards established in the Sampling and Analysis Plan.
- Re-sampling of Pond B took place during the week of April 15, 2024.
- The Navy is currently awaiting the validated results from this sampling event. The results of this sampling will determine the next steps.

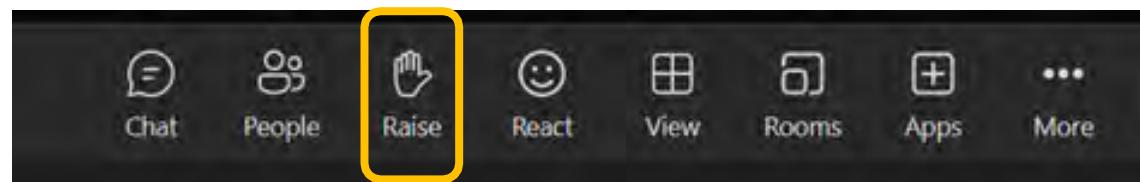


Q&A

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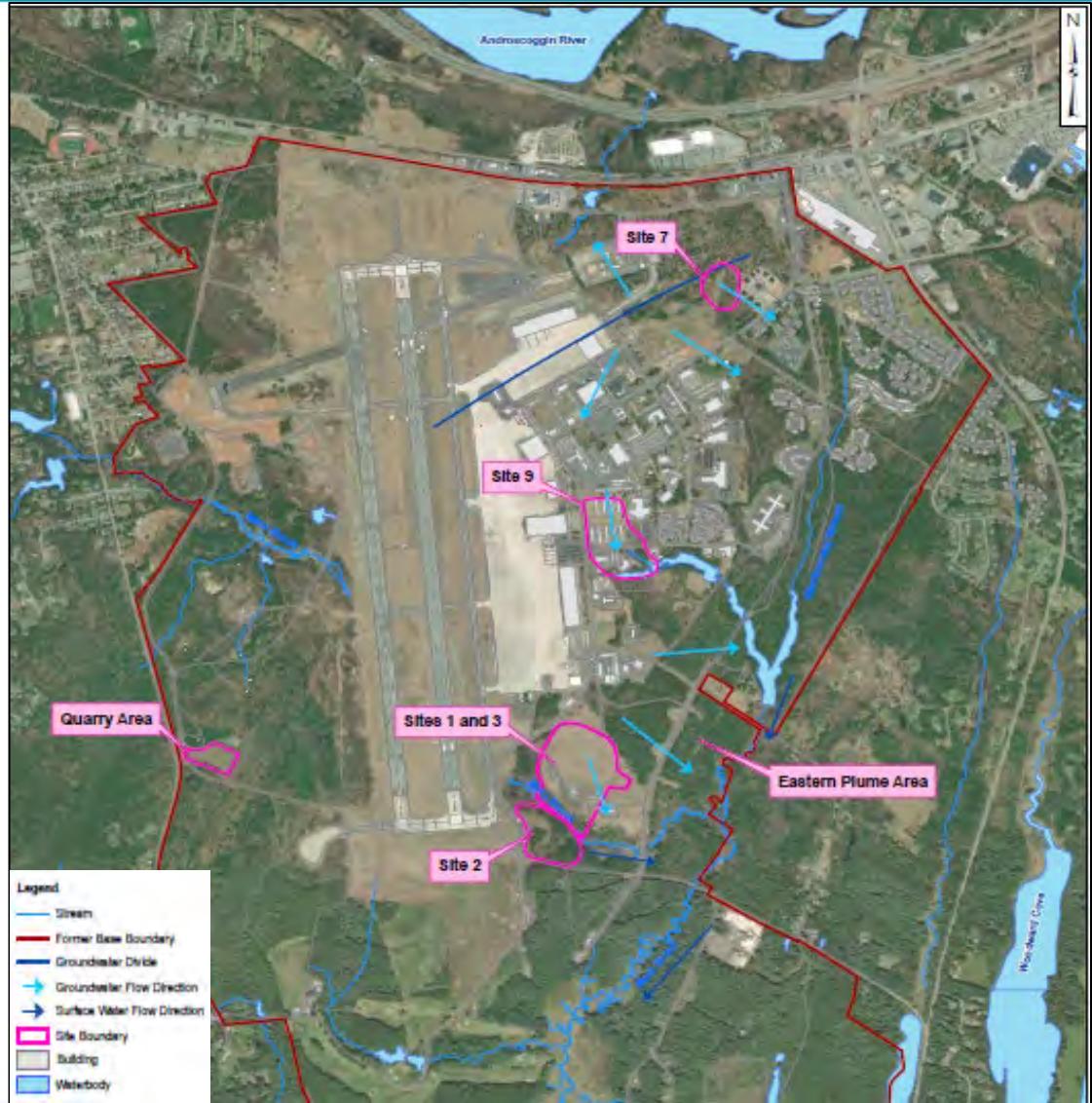
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Other Activities

Long-Term Monitoring (LTM) CERCLA Sites



Other Activities

CERCLA LTM Sampling

- Occurred in October/November 2023 in accordance with the 2022 LTM Sampling and Analysis Plan (SAP)
 - Five-year event sampling at Sites 1 & 3, Site 2, Site 7, Site 9, and Eastern Plume
 - Groundwater sampling at the Quarry Area
 - Validated data received in late February 2024
- Reporting:
 - 2022 Annual LTM Report was issued as Draft in February 2024
 - 2023 Annual LTM Report to be issued to Navy in late May 2024

Non-CERCLA LTM Sampling

- Old Navy Fuel Farm (ONFF) and Naval Exchange (NEX) Service Station undergoing LTM in accordance with MEDEP remediation guidelines for Petroleum Contaminated Sites.

LTM Sampling Schedule

- Next LTM sampling is planned for June 2024.

Other Activities

Groundwater Extraction and Treatment System (GWETS)

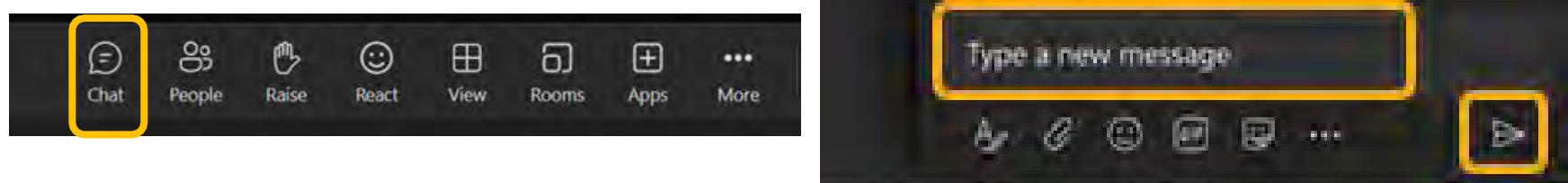
- Samples are collected monthly (pre- and post-treatment) for PFAS analysis
- Reduction of influent PFAS concentrations over past 5 years
- The six PFAS that are compared to the MEDEP Interim Drinking Water Standard (June 2021) were not detected in system effluent
- Carbon change-out occurred on April 11, 2024, triggered by PFOA concentrations in mid-carbon samples.
- Reporting:
 - GWETS Annual PFAS Report for July 2022 – June 2023 was submitted in November 2023
 - Next annual report for July 2023 to June 2024 anticipated in August 2024

Eastern Plume Extraction Wells

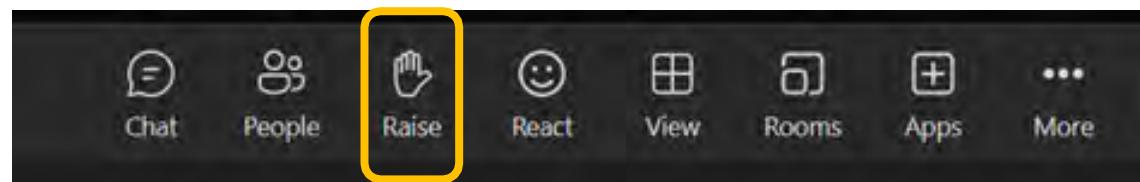
- Six extraction wells hydraulically contain contaminants in the Eastern Plume overburden with a total average pumping rate of approximately 50 gallons per minute (gpm).
- To determine if a reduction of PFAS mass in groundwater could be achieved using the existing GWETS, an evaluation to expand the existing extraction well network was completed.
- The evaluation was completed between November 2022 and May 2023 and included the installation and testing of two new extraction wells (EW-10 within the Eastern Plume and EW-11 in the Eastern Flightline Area) and the rehabilitation and testing of an inactive Eastern Plume extraction well (EW-05A).
- Based on that evaluation, the Navy has a contract in place to connect EW-11 to the existing GWETS.

Q&A

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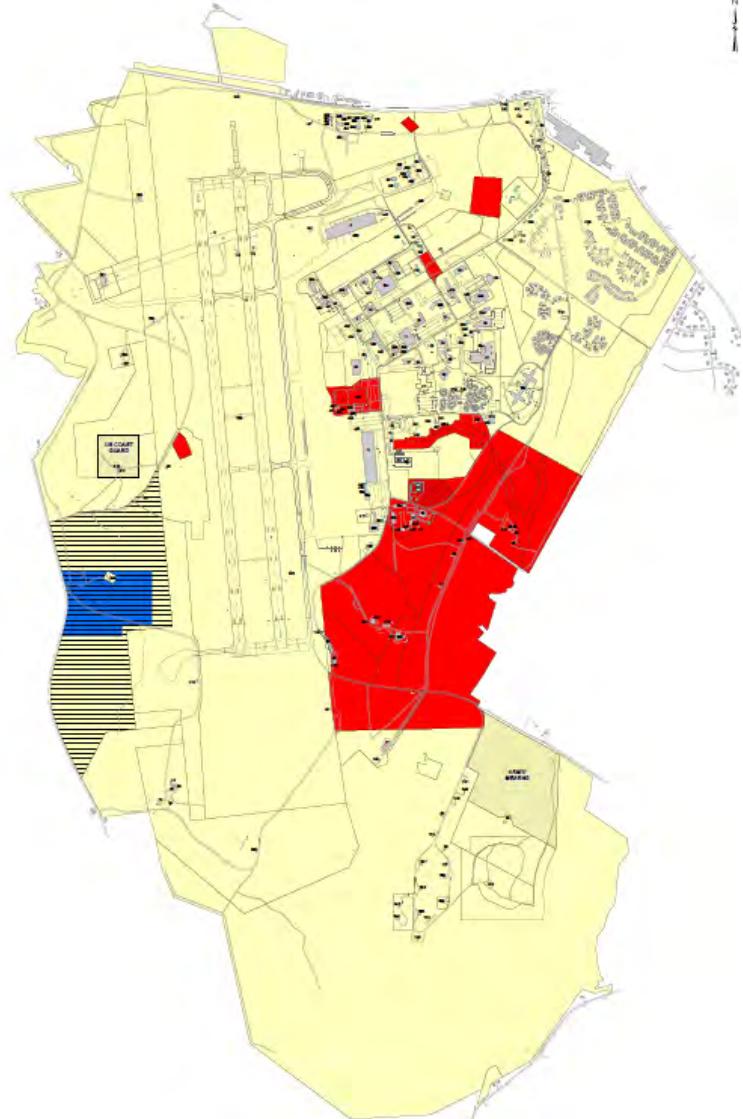
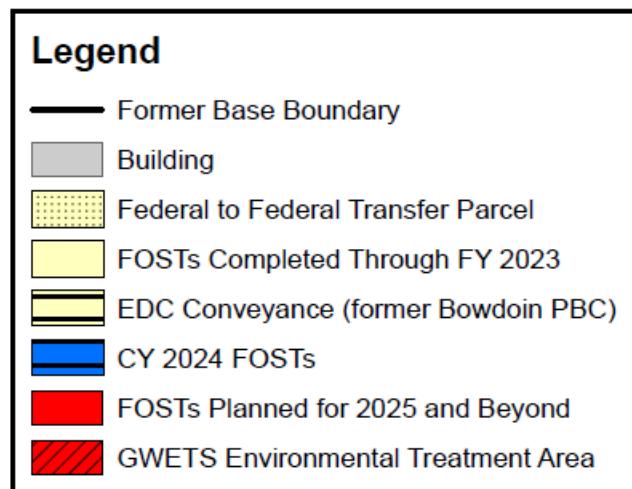


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Other Activities

Findings of Suitability to Transfer (FOSTs)

- Quarry, 1st Quarter of 2024
- Public Works, 1st Quarter of 2024
- Hangar 4, 2nd Quarter of 2024
- AIR-16, 3rd Quarter of 2024



Other Activities

Jordan Avenue Wellfield

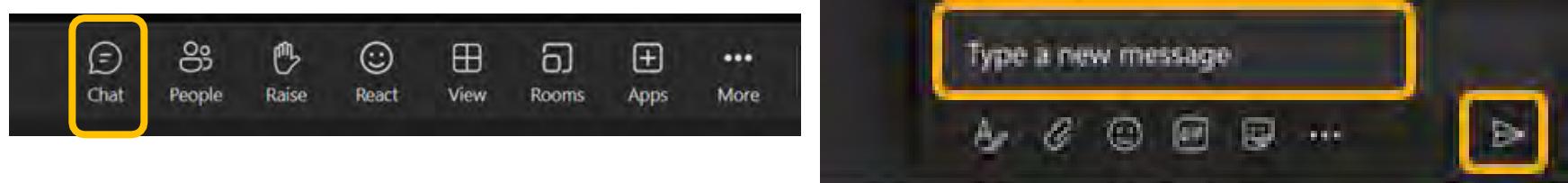
- Navy and Brunswick/Topsham Water District have finalized a cooperative agreement for treatment plant upgrades
 - Phase I awarded of the ESCA includes supporting the current action (hydraulic containment using the lower wellfield) and design of an alternate treatment system
 - Phase II (construction of the treatment facility) targeted for FY24 award
- Non Time-Critical Action Memorandum
 - Proposed action includes construction and operation of a treatment system for the wellfield with greensand, granulated activated carbon (GAC), and single-use resin
 - Draft Action Memorandum issued January 2024

Hangar 4 Aqueous Film-Forming Foam (AFFF)

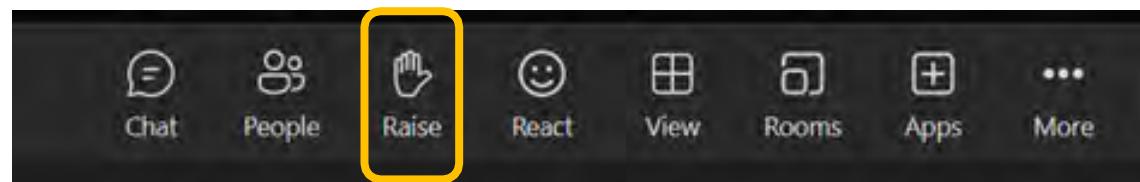
- AFFF will be removed/replaced in 2024 – Navy lead

Q&A

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Thank You!



Thank you for attending today's meeting!

**Next RAB Meeting: Tentatively planned
for Wednesday, September 25, 2024, at**

2:00 pm

Hybrid Meeting

Acronyms

gpm	gallons per minute
ng/L	nanogram per liter
ug/kg	microgram per kilogram
AFFF	Aqueous Film-Forming Foam
BACSE	Brunswick Area Citizens for a Safe Environment
BRAC	Base Realignment and Closure
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CIP	Community Involvement Plan
ESCA	Environmental Services Cooperative Agreement
FOSL	Finding of Suitability to Lease
FOST	Finding of Suitability to Transfer
GAC	Granular Activated Carbon
GWETS	Groundwater Extraction Treatment System
HFPO-DA	Hexafluoropropyleneoxide-Dimer Acid
HOA	Homeowners Association
IR	Installation Restoration
LTM	Long-Term Monitoring
LUC	Land Use Control

Acronyms (cont'd)

MEDEP	Maine Department of Environmental Protection
MRRA	Midcoast Regional Redevelopment Authority
NAS	Naval Air Station
NEX	Naval Exchange
NW	Northwest
ONFF	Old Navy Fuel Farm
PFAS	Per- and Polyfluoroalkyl Substances
PFBA	Perfluorobutanoic Acid
PFBS	Perfluorobutane Sulfonate
PFHxA	Perfluorohexanoic Acid
PFHxS	Perfluorohexanesulphonic Acid
PFNA	Perfluorononanoic Acid
PFOA	Perfluorooctanoic Acid
PFOS	Perfluorooctanesulfonic Acid
PSL	Project Screening Level
RAB	Restoration Advisory Board
RCRA	Resource Conservation and Recovery Act
RI	Remedial Investigation
SAP	Sampling and Analysis Plan
USEPA	United States Environmental Protection Agency

Base Map with CERCLA Sites

