U.S. ARMY CORPS OF ENGINEERS

Environmental Cleanup Project Update

Former Charlestown Naval Auxiliary Landing Field Charlestown, Rhode Island

Defense Environmental Restoration Program Formerly Used Defense Site D01RI0008

January 8, 2025









INTRODUCTIONS



U.S. Army Corps of Engineers – New England District

- o Gary Morin, PE, Chief, Environmental Project Management
- Heather Sullivan, PMP, Program Manager
- Gregory Hencir, PMP, Project Manager
- o Tracy Dorgan, PG, Project Geologist
- o Nicole Brennan, PG, Assistant Project Geologist
- Michael Narcisi, Ecological Risk Assessor
- o Amy Rosenstein, Human Health Risk Assessor
- Constance Lapite, Chemist
- Marcos Paiva, Archeologist
- Beth Gosselin, Chief, Public Affairs
- Sheandra Sterling, Outreach Coordinator
- o Todd Beckwith, Project Manager (Baltimore District)
- o David King, Project Geophysicist (Baltimore District)
- Marty Holmes, Ordnance and Explosives Safety Specialist (Baltimore District)



U.S. Army Corps of Engineers – Headquarters, Directorate of Military Programs

o Gunarti Coghlan, Chief, DOD Environmental Programs

U.S. Army Corps of Engineers – Environmental and Munitions Center of Excellence

o Carl Harms, PE, Environmental Engineer

U.S. Army Corps of Engineers – Contractors

- WESTON Solutions, Inc.
- o Hana Engineers & Consultants, LLC.
- GSI North America, Inc.
- o George Joslin Well & Pump Co.



INTRODUCTIONS



Regulatory Agency

Rhode Island Department of Environmental Management

- o Nicholas Noons, PE, Environmental Engineer IV
- Patricia Burke, PE, Project Manager



U.S. Fish and Wildlife Service

- Karrie Schwaab Project Leader
- o Nick Ernst Wildlife Biologist

Town of Charlestown

- o Deb Carney, Town Council President
- o Richard Serra, Town Council Vice President
- o Peter Slom, Town Council
- Stephen Stokes, Town Council
- Susan Cooper, Town Council
- Jeffrey Allen, Town Administrator
- Vicky Hilton, Parks and Recreation Director
- o Carl Fehrmann, Parks Maintenance







TOWN OF CHARLESTOWN



MEETING OBJECTIVES



The purpose of this meeting is to:

- Provide a high-level overview of the U.S. Army Corps of Engineers (USACE) investigation and cleanup efforts at the former Charlestown Naval Auxiliary Landing Field (CNALF).
- 2. Gather feedback on how USACE can better inform the community about the cleanup project.

Please fill out our questionnaire



http://form.jotform.com/243454596005054



AGENDA



PART 1

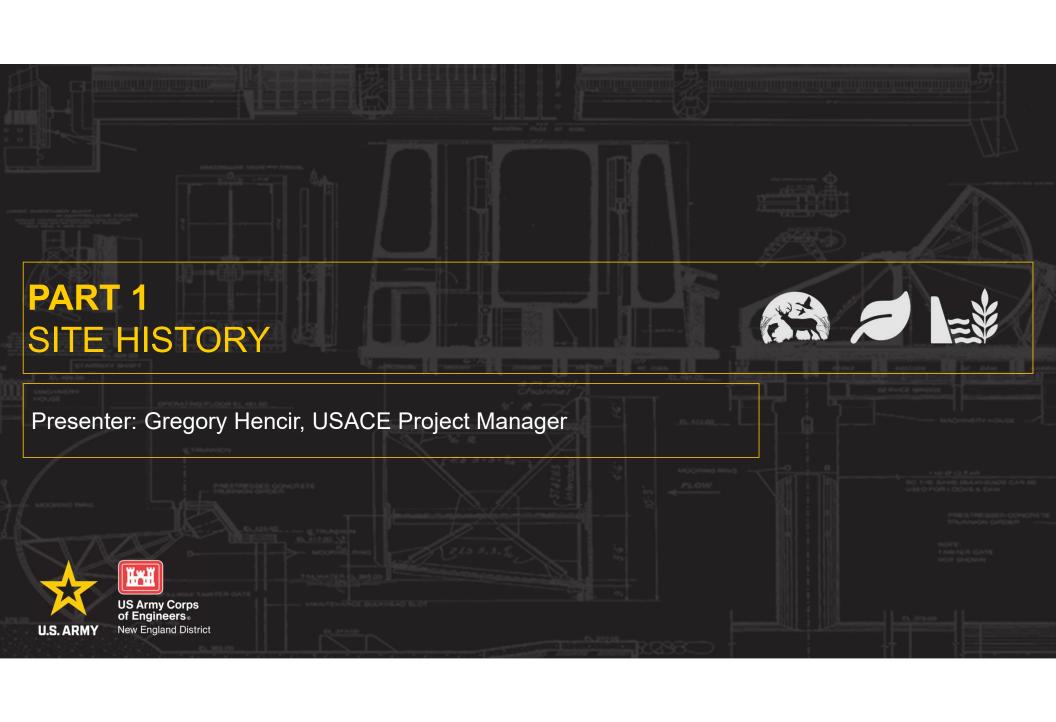
- SITE HISTORY
- FEDERAL CLEANUP PROGRAM
- PLANNING & COORDINATION

PART 2

- ENVIRONMENTAL PROJECT STATUS
 - PROJECT 8: BOILER HOUSES, ELECTRICAL VAULT
 - PROJECT 9: MILITARY MUNITIONS RESPONSE PROGRAM
 - PROJECT 9: BURN PIT, LANDFILLS, WATER SUPPLY AREA
 - PROJECT 9: REMOVAL ACTIONS

PART 3

RESTORATION ADVISORY BOARD





SITE HISTORY



- CNALF was acquired between 1940 and 1942 by the U.S. Navy and encompasses approximately 630 acres in Charlestown, Rhode Island.
- CNALF was used as a pilot and flight crew training facility during World War II and later as a support facility to Quonset Point Naval Air Station.











CURRENT USES



- CNALF was closed in the early 1970s and transferred to the Town of Charlestown and the U.S.
 Fish and Wildlife Service for beneficial reuse in 1981.
- The property that comprised CNALF is currently used for conservation and recreation as Ninigret Park and Ninigret National Wildlife Refuge.







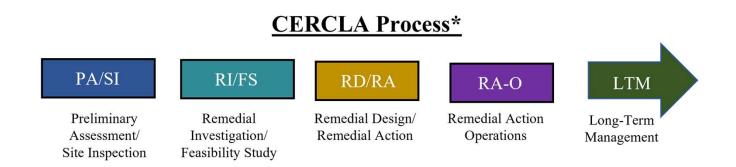




FEDERAL CLEANUP PROGRAM



 Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) passed by Congress in 1980 established national framework for the identification, investigation, and cleanup of hazardous substances.



^{*} A removal action may be initiated at any time during the process if imminent threat to human health, safety, or environment exists.

 CNALF is <u>NOT</u> listed on EPA's National Priority List (NPL), commonly known as "Superfund Sites".



FEDERAL CLEANUP PROGRAM



- Section 211 of the Superfund Amendments and Reauthorization Act (SARA) passed by Congress in 1986 established the Defense Environmental Restoration Program (DERP) as codified in Title 10 of the United States Code (USC) § 2700 et seq.
 - Secretary of Defense shall carry out environmental restoration for facilities under jurisdiction of the Secretary.
 - Established the Formerly Used Defense Site (FUDS) program.
 - A FUDS property is defined as real property that was owned by, leased to, or otherwise possessed by the United States and under the jurisdiction of the Secretary that was transferred from DOD control prior to October 17, 1986.
 - A FUDS project must have hazards or contamination that was released by DOD on-site while DOD had jurisdiction over the site.



FEDERAL CLEANUP PROGRAM



KEY POINTS

- Cleanup follows the CERCLA process.
- USACE is tasked with executing the cleanup program at CNALF under FUDS.





PLANNING & COORDINATION



- USACE's cleanup mission requires close community coordination.
- USACE is committed to protecting human health and the environment, while also accommodating the many recreational uses and conservation efforts.

Examples:

- Ninigret Park Events (e.g., Seafood Festival, Rhythm & Roots, Atlantis Rising)
- Ninigret Park Activities (e.g., Summer Day Camp)
- DarkSky International
- Wetland Protection
- Wildlife Nesting Restrictions
 - Noise Restriction May 15th to August 30th
 - Brush Clearing Restriction April 15th to August 15th
- Hunting September 15th to January 31st
- Archaeological and Cultural Resources



Outdoor education at Ninigret National Wildlife Refuge



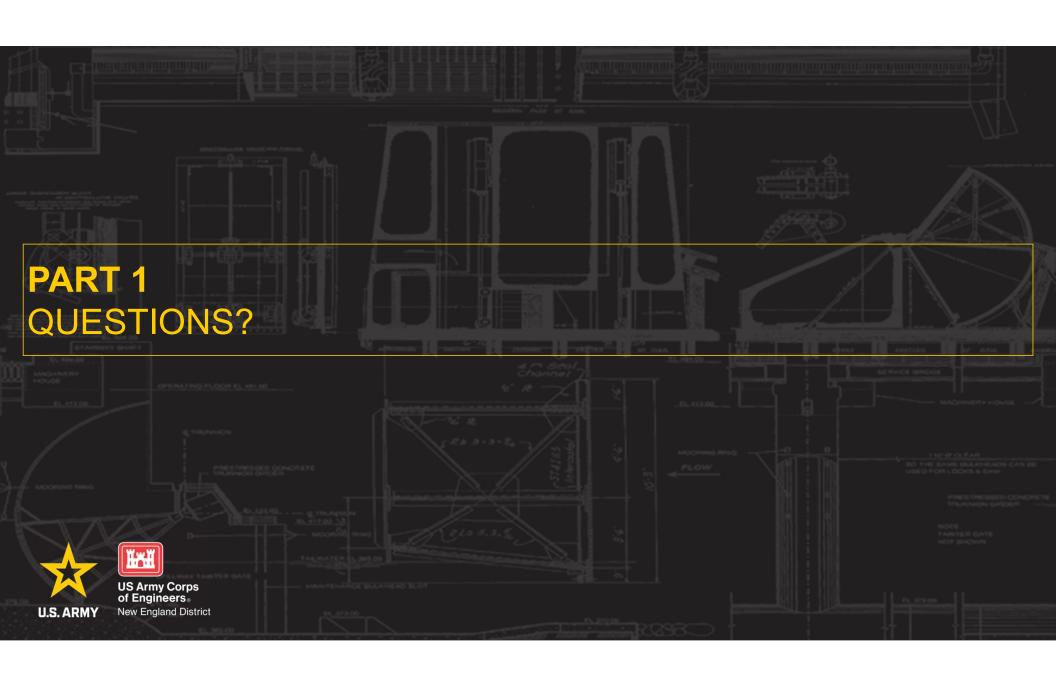
PLANNING & COORDINATION

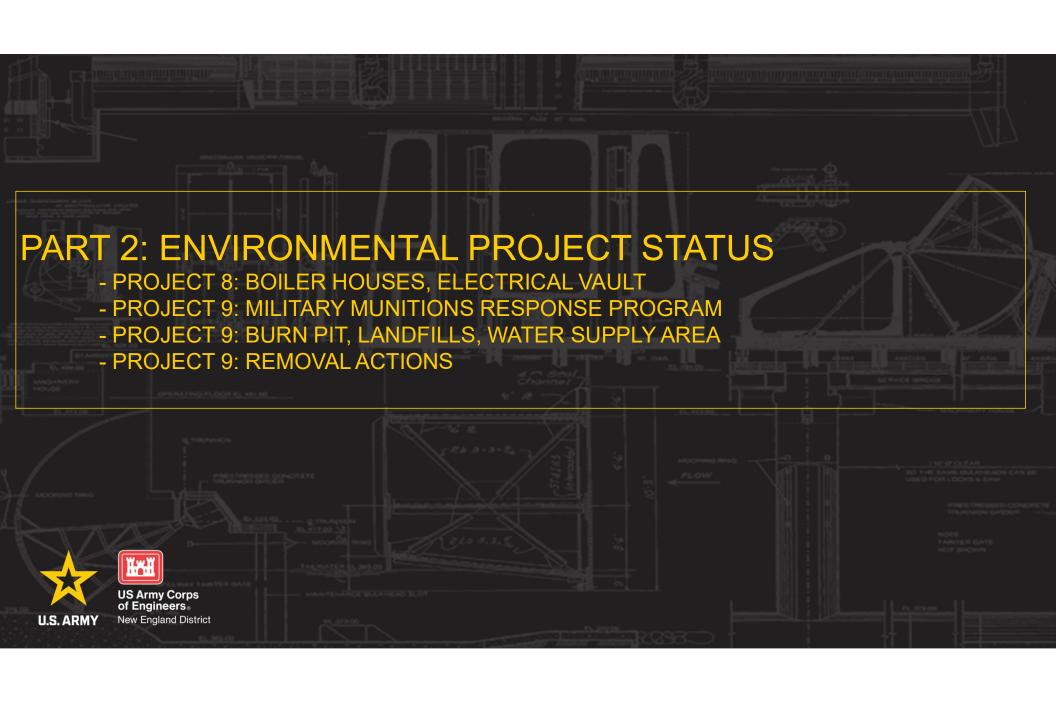


- Coordination with USACE during planning allows USACE to provide information that may assist the Town of Charlestown and USFWS in making planning decisions.
- Town of Charlestown, USFWS, their contractor(s), or others
 they permit to disturb soil should exercise due diligence.
 Should a project require any soil disturbance below ground
 surface, USACE recommends the Town of Charlestown and
 USFWS perform that work with appropriate oversight and soil
 testing to properly characterize and manage the disturbed
 soil.
- Should the Town of Charlestown, USFWS, their contractor(s), or others they permit to cause movement of onsite contaminated materials, or the addition of contaminated materials, related or unrelated to former DOD operations, then the Town of Charlestown and USFWS may become a Potentially Responsibly Party (PRP) under CERCLA and be liable for a portion of the investigation and/or remedial costs.



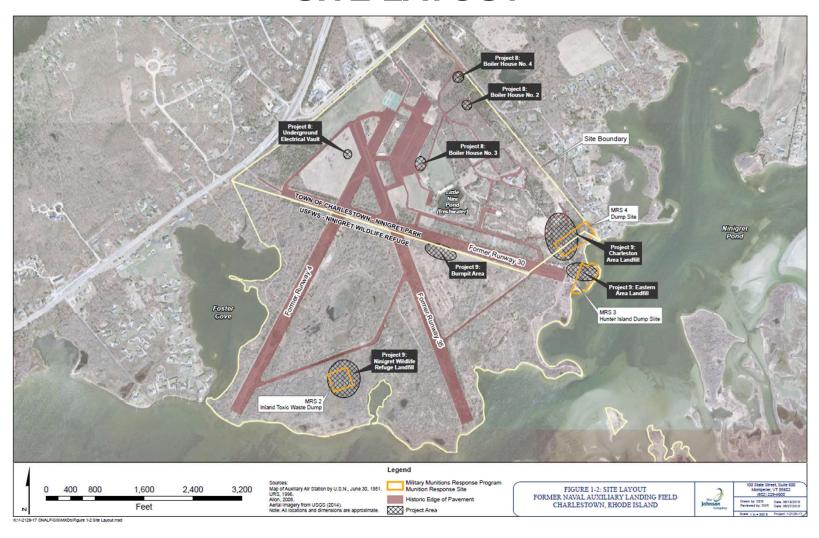
Imported clean loam used as backfill.

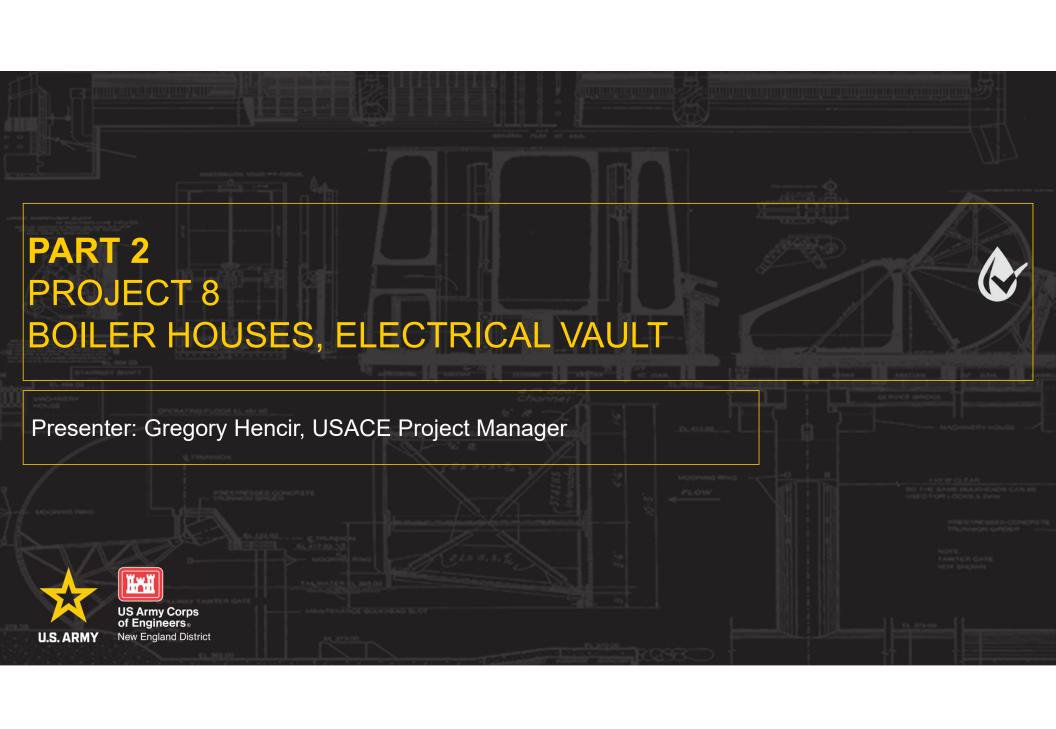






SITE LAYOUT







BOILER HOUSES





The Providence Journal, June 19, 2002



SCENE: View of Geoprobe Direct Push Technology activity at a Boiler House No. 3 (BH3) boring location. DATE: 02 March 2021



SCENE: View of the Geoprobe Direct Push Technology machine set up at a Boiler House No. 4 (BH4) boring location.

DATE: 03 March 2021



ELECTRICAL VAULT



WORK COMPLETED

- Electrical vault formerly used for runway lighting removed from the ground in November 2024.
- Excavation sidewall and bottom soil collected for testing of total petroleum hydrocarbons (TPH) and polychlorinated biphenyls (PCBs).



Removing the top of the vault using the miniexcavator.



Placement of muck within base of vault into 55gallon drum.

NEXT STEPS

 Review soil testing results to determine if a spill occurred within the vault, and if so, whether it impacted surrounding soil.



Resulting excavation after removal of debris.



Scrap metal hauled to recycler.



BOILER HOUSES, ELECTRICAL VAULT



KEY POINTS

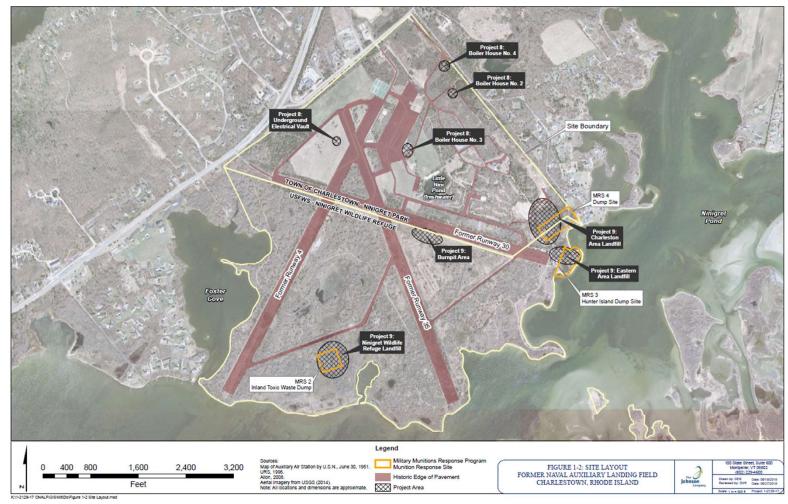
- Boiler houses demolished and cleanup confirmation completed in 2021.
- The electrical vault and its contents were removed in 2024. Review of laboratory results collected from the excavation will determine if remediation is complete.





PROJECT 9: MILITARY MUNITIONS RESPONSE PROGRAM







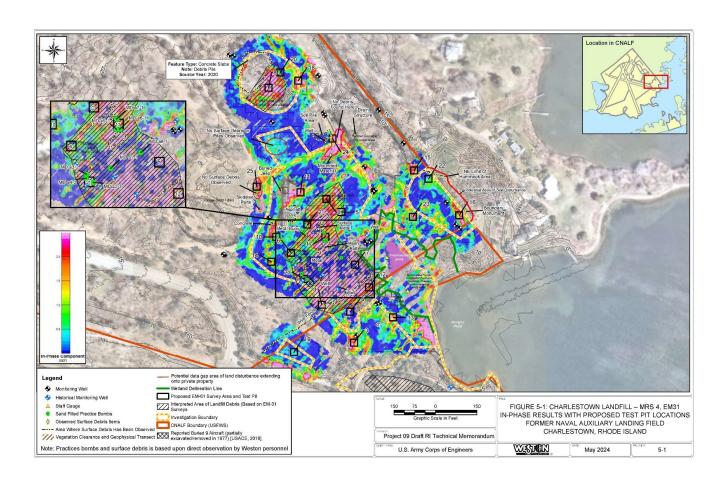


WORK COMPLETED

 Geophysical surveying at 3 landfills competed in 2023.

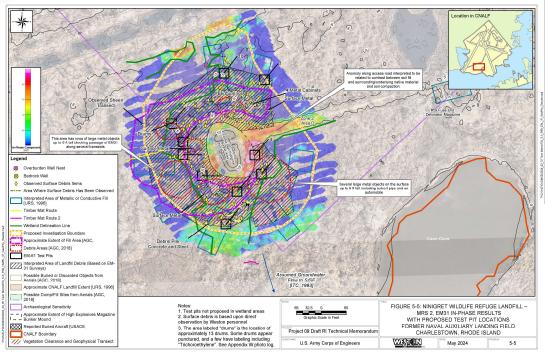
NEXT STEPS

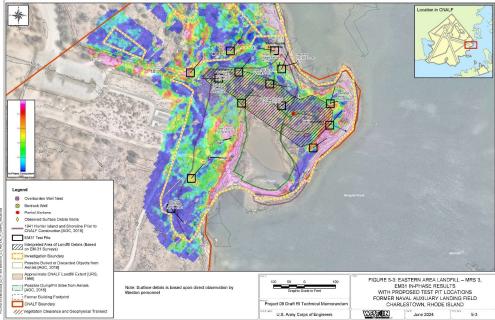
 Perform 49 test pits at the landfills where geophysical anomalies identified.

















Recognize – when you may have encountered a munition, and that munitions are dangerous.

Retreat – do not approach, touch, move, or disturb it, but carefully leave the area.

Report – call 911 and advise the police of what you saw and where you saw it.



Photo E.14 – View of first group of MD, suspected 1,000 lb inert practice bombs observed within the Dump Site



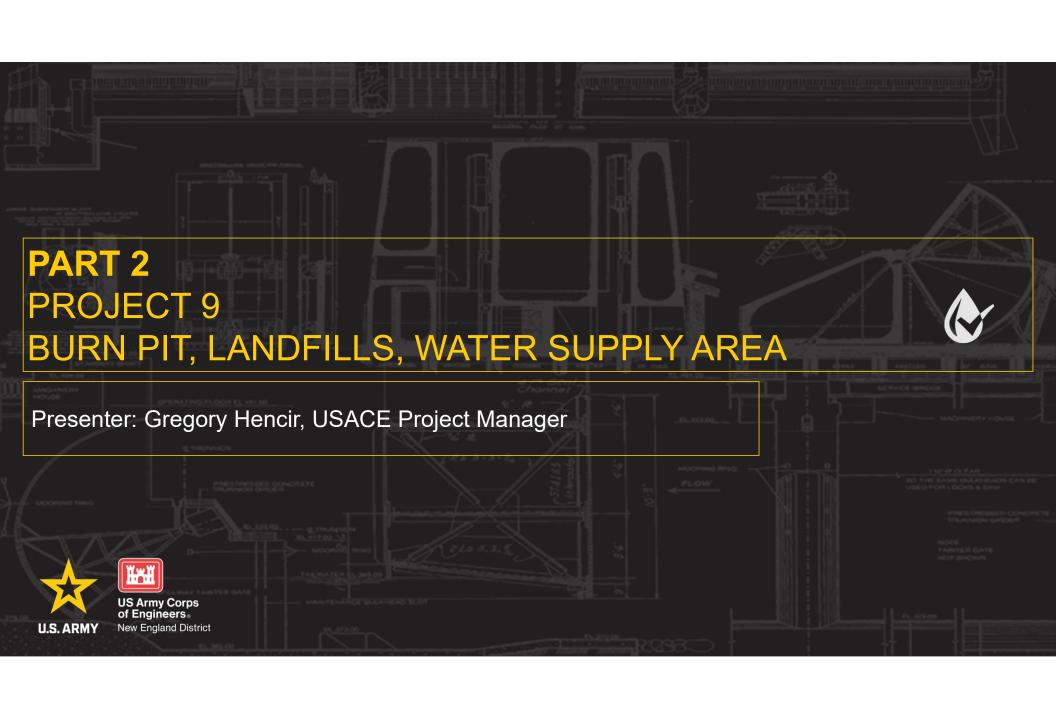
Photo E.30 – Discovered MD from small arms (certified MD by UXO Technician). Noted to be 0.30 caliber bullets.





KEY POINTS

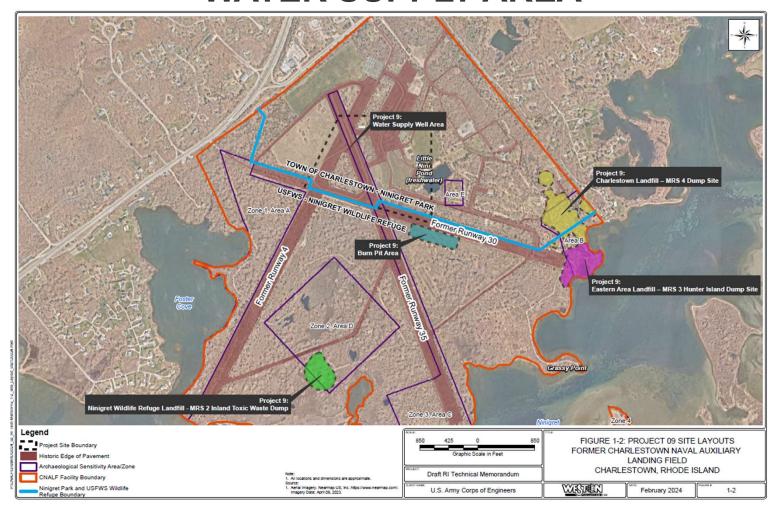
- 3Rs: Recognize, Report, Retreat.
- CNALF was a military airfield where munitions and explosives were used & stored.
- Geophysical surveying was completed at the 3 landfills and test pitting will be conducted to investigate the geophysical anomalies identified.





PROJECT 9: BURN PIT, LANDFILLS, WATER SUPPLY AREA







DATA GAPS



- Last section gave an overview of the MMRP investigation. This next section gives an
 overview of the Hazardous, Toxic, Radioactive Waste (HTRW) investigation.
- **Prior investigations were limited in scope** and the historical data were insufficient to fully characterize the nature and extent of potential contamination.

DATA GAPS

- Assess the nature and extent of contamination attributable to potential sources within the landfills, burn pit area, and the water supply well area related to former DOD operations.
- Evaluate the potential human health and ecological risks related to former DOD operations.
- Comprehensive testing of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), polycyclic aromatic hydrocarbons (PAHs), metals, dioxin/furans, polychlorinated biphenyls (PCBs), explosives chemicals, and per- and polyfluorinated alkyl substances (PFAS).





REMEDIAL INVESTIGATION TASKS



- Wetland Delineation
- Vegetative Cover and Invasive Species Surveys
- Mobilization, Demobilization
- Brush Clearing
- Geophysical Surveying
- Tapwater Sampling
- Test Pit Excavation and Soil Sampling
- Surface and Subsurface Soil Sampling
- Sediment, Surface Water, and Porewater Sampling
- Background Soil, Sediment, and Surface Water Sampling
- Monitoring Well Installation, Well Rehabilitation
- Bedrock Borehole Geophysical Logging
- Monitoring Well Sampling and Water Level Monitoring
- Groundwater Modeling
- Data Validation, Analysis, and Reporting
- Public Communication











PER- AND POLYFLUORINATED ALKY SUBSTANCES (PFAS)



- Discovered in the 1930s, PFAS is a large complex class of many thousands of fluorinated compounds with many industrial uses, such as waterproofing and stain resistance.
- Sources of PFAS environmental contamination are widespread including common products such as clothing, food packaging, upholstery, cookware since the 1950s.
- A common source is aqueous film-forming foam (AFFF)
 used by DOD in firefighting since the 1970s because of its
 effective fire-protection capability to quickly extinguish
 petroleum-based fires to save lives and protect critical
 assets and infrastructure.
- AFFF quickly extinguishes petroleum fires by forming an aqueous film on the fuel surface that prevents the escape of flammable vapors and stops the fire from reigniting.



Major Fire Aboard USS Enterprise, 1969



Firefighting Training at Key West Naval Air Station, 1992



PER- AND POLYFLUORINATED ALKY SUBSTANCES (PFAS)



- PFAS are **persistent in the environment**, detected globally in air, rain, soil, surface water, groundwater, wastewater treatment discharge, and septic systems.
- Determining the source of PFAS contamination requires careful examination of the specific PFAS compounds present, their relative concentrations, distribution in soil, sediment, and groundwater and considering potential sources.
- Various studies have shown potential **adverse human health effects** from exposure to some PFAS, resulting in very low regulatory criteria values, as low as 4 parts per trillion [i.e., nanograms per liter (ng/L)] in drinking water.



BURN PIT HISTORICAL PHOTOS

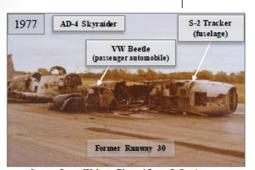




HTRW SITE NO. 3 – BURN PIT AREA (FIRE-FIGHTING TRAINING AREA) 1962 VERTICAL VIEW



LOCATION DIAGRAM



Source: Larry Webster Photo Album Collection (courtesy of NAE). Aircraft identified via Larry Webster Archives.





Source: Rhode Island Department Of Administration Planning Information Center

HTRW = Hazardous, Toxic, & Radioactive Waste

FINAL REPORT AUGUST 2018



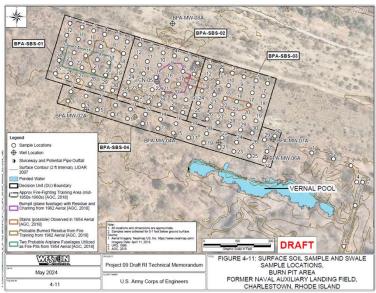
BURN PIT



WORK COMPLETED

- Tested 120 surface soil samples and 48 locations/240 subsurface soil samples.
- Tested 15 surface water, pore water, and sediment samples from nearby vernal pool.
- Installed 27 new monitoring wells at 12 locations.
- Tested groundwater from new wells and 1 historical shallow overburden well (2 rounds).









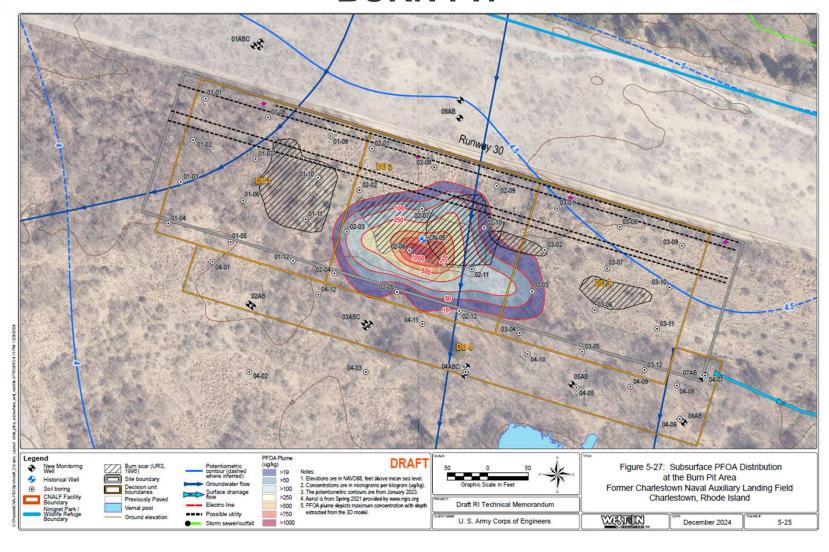


PRELIMINARY FINDINGS

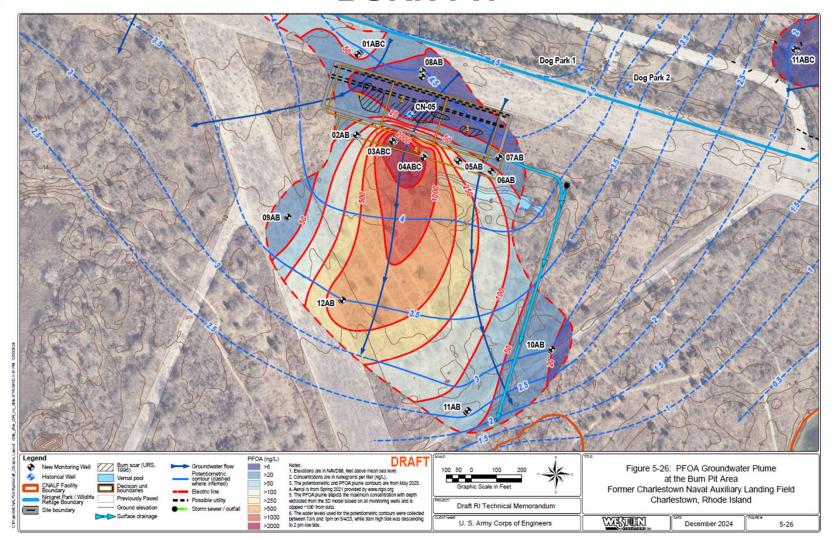
- Perfluorooctanoic acid (PFOA) is the most prevalent PFAS compound detected in soils around a central burn scar.
- PFOA is interpreted to be derived from a particular type of AFFF that was likely used at CNALF for firefighting and training exercises.
- Dioxin/furans detected in soil. Residual petroleum detected at isolated locations.
- PFOA detected in overburden (i.e., above bedrock) groundwater beneath a central burn scar.















NEXT STEPS

- Additional data collection and evaluation to confirm depth of impacted soil and lateral limits of PFOA groundwater plume.
- Compare results to background (that are unimpacted areas), regulatory criteria, and screening levels to complete ecological and human health risk assessments.
- Redevelop historical wells and groundwater sampling from historical and new wells.
- Collect sediment, surface water and porewater samples from vernal pool to further assess interactions with groundwater and potential impacts from overland flow.





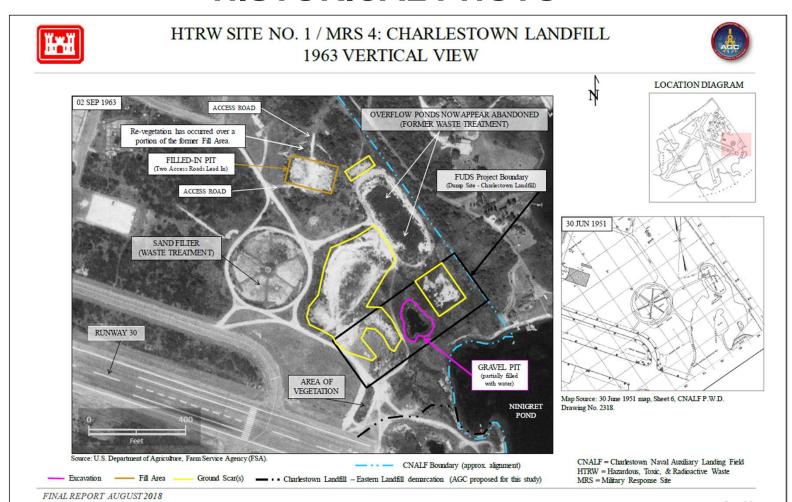
KEY POINTS

- Preliminary findings detected PFOA in soil and groundwater beneath the burn pit.
- Additional study is needed to determine the depth of impacted soil and lateral limits of the PFOA groundwater plume and to complete the ecological and human health risk assessments.



CHARLESTOWN LANDFILL HISTORICAL PHOTO









WORK COMPLETED

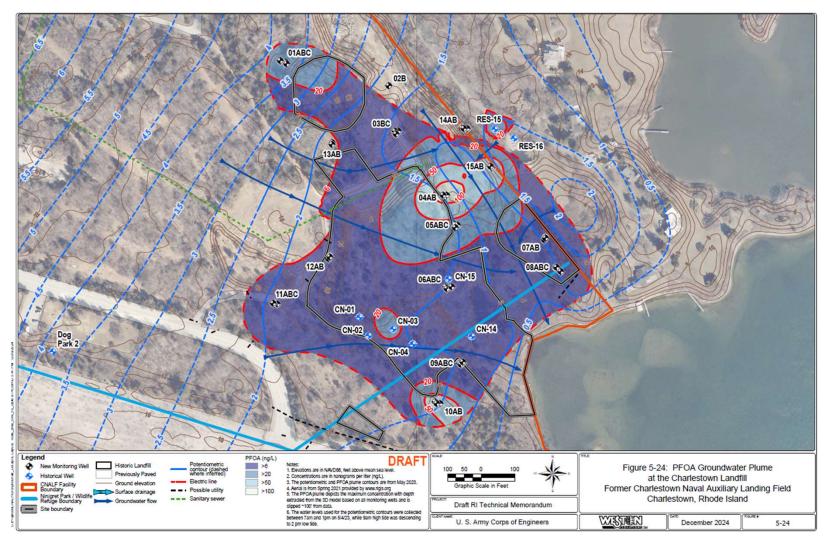
- Installed 35 new monitoring wells at 15 locations.
- Tested groundwater samples from new wells and 6 historical overburden well in 2 rounds.
- Geophysical surveying (in support of MMRP).
- Wetland delineation mapping and vegetative cover / invasive species surveying.

PRELIMINARY FINDINGS

- PFOA is the most prevalent PFAS compound and detected in overburden (i.e., above bedrock) groundwater in and downgradient of the former overflow ponds.
- Elevated salinity observed in deep overburden and bedrock monitoring wells.











NEXT STEPS

- Additional data collection and evaluation is needed to determine potential impacts to soil and lateral limits of the PFOA groundwater plume.
- Install new monitoring wells and groundwater sampling.
- Collect surface and subsurface soil samples.
- Compare results to background (that are unimpacted areas), regulatory criteria, and screening levels to complete the ecological and human health risk assessments.









KEY POINTS

- Preliminary findings detected PFOA in and downgradient of landfill.
- Additional study is needed to determine potential impacts to soil and lateral limits
 of the PFOA groundwater plume and to complete the ecological and human health
 risk assessments.



EASTERN AREA LANDFILL AND NINIGRET WILDLIFE REFUGE LANDFILL **HISTORICAL PHOTOS**



HTRW SITE NO. 2 / MRS 3: HUNTER ISLAND DUMP SITE 1969 MAP & 1970 AERIAL DATA



1969 Map Enclosure Draped on March 1970 Aerial Photography

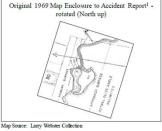


In March of 1970, an area of disturbed ground is identified immediately north of the small pond - likely related to the recovery of aircraft parts of four buried aircraft and the 1969 dumping of building debris. 1,2



LOCATION DIAGRAM

Note: The numbering system (e.g. 1702) used in the 1969 Map Enclosure (below and left) relates to a unique (internal) identification system of 'airplane wreckage' developed by Larry Webster and does not relate to any other known documentation.



HTRW = Hazardous, Toxic, and Radioactive Waste MRS = Munitions Response Site

1. Source: 29 October 1997 telephone conversation with Charle Hebert, U.S. Fish & Wildlife Service, Ordanace and Explosives Archives Search Report, Former Naval Auxolary Landing Field - Final, Charlestown, Rhode Island, 27 April 1999. 2. Sources: 1969 Accident Report (textual and map data) - Larry Webster Collection, Charlestown, RI.



HTRW SITE NO. 4 / MRS 2 - NINIGRET WILDLIFE REFUGE LANDFILL & INLAND TOXIC WASTE DUMP - 1972 VERTICAL VIEW



LOCATION DIAGRAM

21 April 1972

CLOSE-UP VIEW

BLACK & WHITE VERTICAL



In an April 1972 vertical view, possible piles of

debris are observed (located within the Fill Area) at the Ninigret Wildlife Refuge Landfill/Dump.

> This site is identified Ninigret Wildlife Refuge Landfill and MRS 2 - Inland Toxic Waste Dump.

1. Source: Volume 1: Draft Environmental Impact Statement, Naval Aurolassy Landing Field Charlestown Rhode Island, General Services Administration (GSA), Region I, Post Office and Courthouse, MA, Exhibit I-A-29 (Vegetation) & Exhibit I-A-33 (Visual Character), 1977, counterly Northwestern University Library, Evansion, IL. HTRW = Hazardous, Toxic, and Radioactive Waste MRS = Munitions Response Site

FINAL REPORT AUGUST 2018



EASTERN AREA LANDFILL AND NINIGRET WILDLIFE REFUGE LANDFILL



WORK COMPLETED

- Geophysical surveying (in support of MMRP).
- Wetland delineation mapping and vegetative cover / invasive species surveying

NEXT STEPS

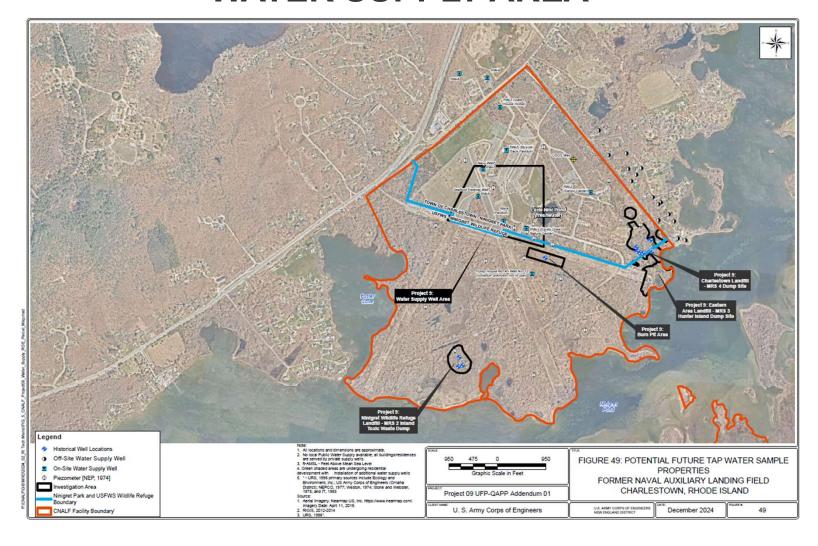
- Install new monitoring wells and groundwater sampling.
- Collect surface and subsurface soil samples.

KEY POINT

 Study of the Eastern Area Landfill and Ninigret Wildlife Refuge is underway to determine potential impacts to soil and groundwater and to complete the ecological and human health risk assessments.





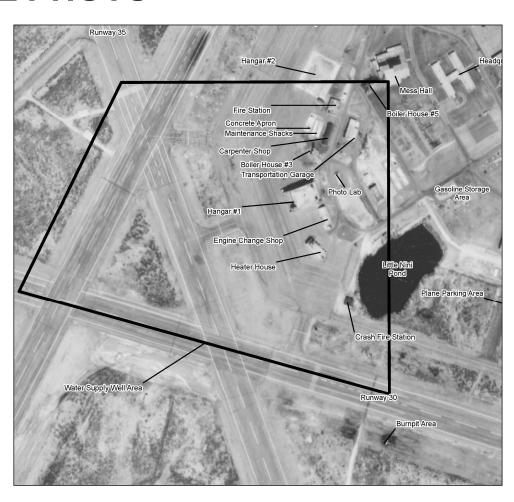




WATER SUPPLY AREA HISTORICAL PHOTO



- Boundary encompasses former buildings, including a former fire station where AFFF may have been released.
- Boundary encompasses public beach and public supply wells:
 - Little Nini Pond
 - Seafood Festival (Seasonal Well)
 - Beach Pavilion (Seasonal Well)
 - Frosty Drew Observatory and Science Center







WORK COMPLETED

- Tested surface water samples from Little Nini Pond (2 rounds).
- Installed 26 monitoring wells at 14 locations (including shallow/overburden pairs).
- Tested groundwater samples from the new monitoring wells (2 rounds).
- Tested 122 surface soil samples at 90 locations and subsurface soil at 8 locations.
- Tested tapwater from 7 public supply wells and 2 upgradient off-site public supply wells (Police and EMS wells) (6 rounds).
- Tested 15 off-site private residential supply wells (6 rounds).



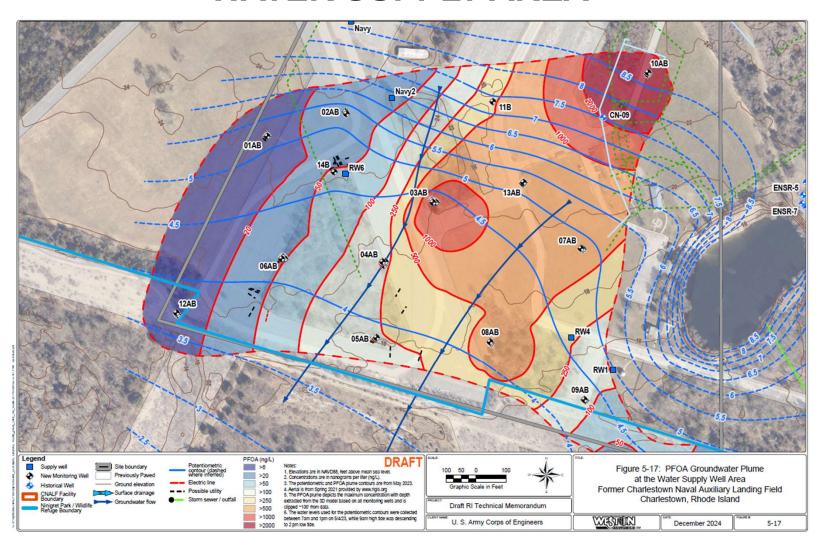


PRELIMINARY FINDINGS

- PFOA and perfluorooctanesulfonic acid (PFOS) detected in surface and subsurface soil samples collected in the immediate vicinity of the former fire station building.
- Residual petroleum detected in subsurface soil at isolated locations.
- PFAS detected in groundwater samples collected from 14 monitoring wells.
- PFAS estimated at very low concentrations in surface water samples from Little Nini Pond. The levels do not impact the use of the pond for recreation.











NEXT STEPS

- Sample subsurface soil at 36 locations (up to 288 samples).
- Collect groundwater samples from 12 existing monitoring wells (2 rounds).
- Collect tapwater samples from 7 existing public supply wells (2 rounds) and Police and EMS public supply wells (5 rounds).
- Continue off-site residential tapwater testing. Includes current 15 private residential supply wells (2 rounds) and up to 25 additional private residential supply wells.
- Install 56 monitoring wells.
- Sample 12 historical (6 rounds), 26 existing (6 rounds), and 53 newly installed monitoring wells (8 rounds).
- Sample surface water, stormwater, and sediment samples at Little Nini Pond (3 outfalls).
- Sample background (that are unimpacted areas) for sediment, porewater, and surface water in both freshwater and marine environments.





KEY POINTS

- PFOA and PFOS detected in surface and subsurface soil samples collected in the immediate vicinity of the former fire station building.
- Additional study is needed to determine potential impacts to soil and lateral limits
 of the PFOA groundwater plume and to complete the ecological and human health
 risk assessments.





REMOVAL ACTIONS



- Removal Actions may be conducted at any time during the CERCLA remedial process. Removal actions generally have limited objectives and typically are short-term actions to protect human health and the environment. Following a removal action (time-critical or non-time critical), the effort transitions back to the remedial process to determine what additional response action is necessary to achieve overall cleanup.
- Removal actions to address PFAS at CNALF consist of providing bottled water and installing point-of-entry-treatment systems (POET) systems at 6 supply wells:
 - 2 seasonal public supply wells (known as the Seafood Festival well and Beach Pavilion well) in the Water Supply Area.
 - 1 public supply well for the Frosty Drew Observatory and Science Center in the Water Supply Area.
 - 3 private residential supply wells.
- Design is necessary because each POET system must handle specific and naturally occurring water chemistry that can vary between wells (e.g., pH, hardness).



REMOVAL ACTIONS



KEY POINTS

- Removal actions implemented at CNALF to address PFAS in drinking water consist of providing bottled water, design and installing POET systems.
- Evolving EPA rules and DOD policies regarding PFAS could result in additional removal actions.



UPCOMING WORK



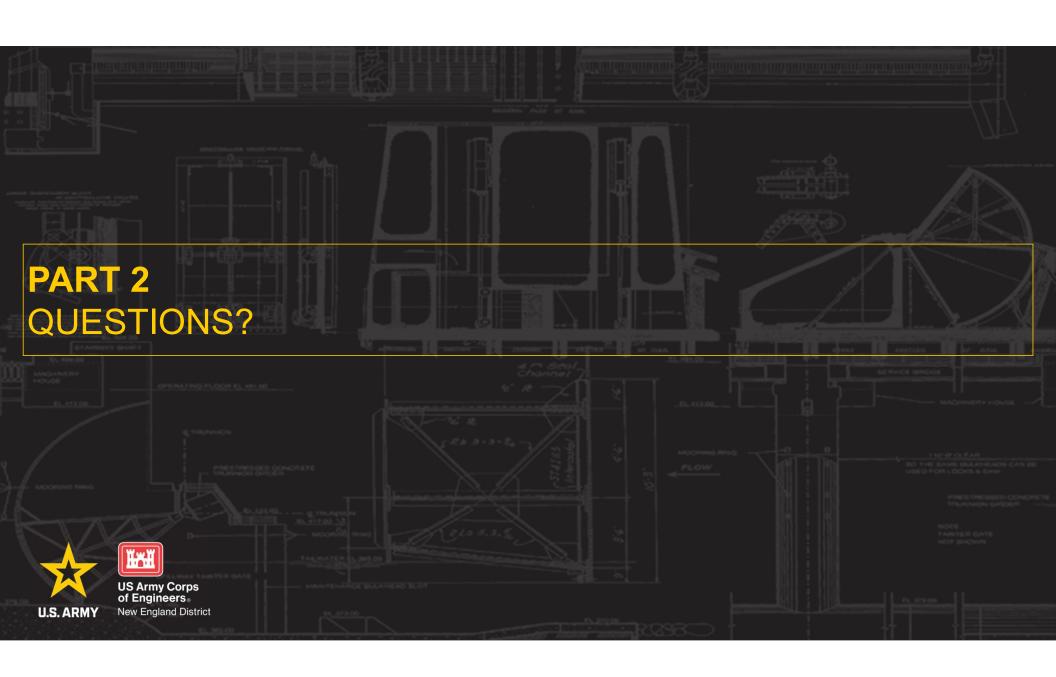
Task	Estimated Start
Approve Remedial Investigation Work Plan	Spring 2025
Tapwater Sampling (Off-Site and On-Site)	Spring 2025 to 2027 (multiple rounds)
Mobilization for Remedial Investigation Fieldwork	Spring 2025
Test Pit Excavations	Spring 2025
Drilling and Well Installation	Spring 2025
Surface Soil Sampling at Landfills	Spring 2025
Soil Borings at Water Supply Area	Summer 2025
Bedrock Borehole Geophysics	Summer 2025
Sediment, Porewater, and Surface Water Sampling	Summer 2025
Round 1 Groundwater Monitoring Well Sampling	Summer 2025
Round 2 Groundwater Monitoring Well Sampling	Winter 2025/2026
Follow-on Drilling, Well Installation, and Sampling	Fall 2026 to Winter 2026/2027
Prepare Remedial Investigation Report	2028 to 2029

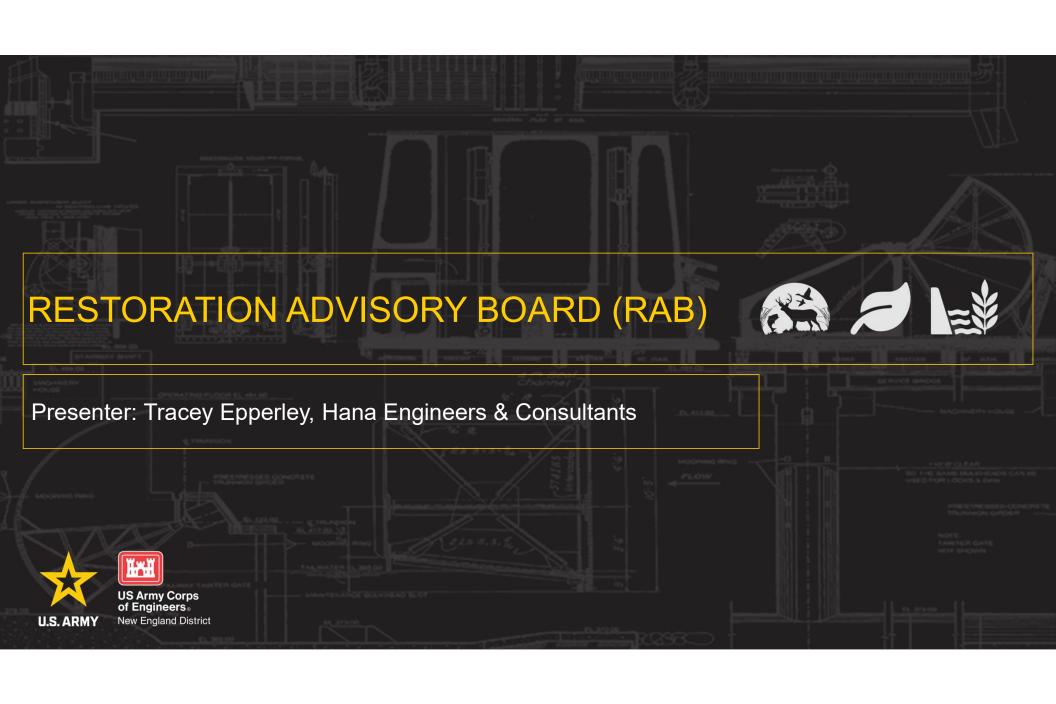


CHALLENGES IMPACTING SCHEDULE



- Avoiding scheduling conflicts with park events and wildlife restrictions.
- Government contracting.
- CNALF is a large and technically complex site involving the investigation of
 physical and chemical hazards in both soil and groundwater that potentially
 derived from several former features (i.e., landfills, burn pit, and fire station). As
 more information is gathered, additional data gaps may be identified
 warranting further investigation that extends the duration of the investigation.







PURPOSE



The purpose of this presentation is to:

- Introduce the questionnaire
- Introduce the USACE CNALF web page
- To provide a more in-depth discussion on the RAB process
 - » What is a RAB
 - » How to form a RAB
 - » Why have a RAB



QUESTIONNAIRE

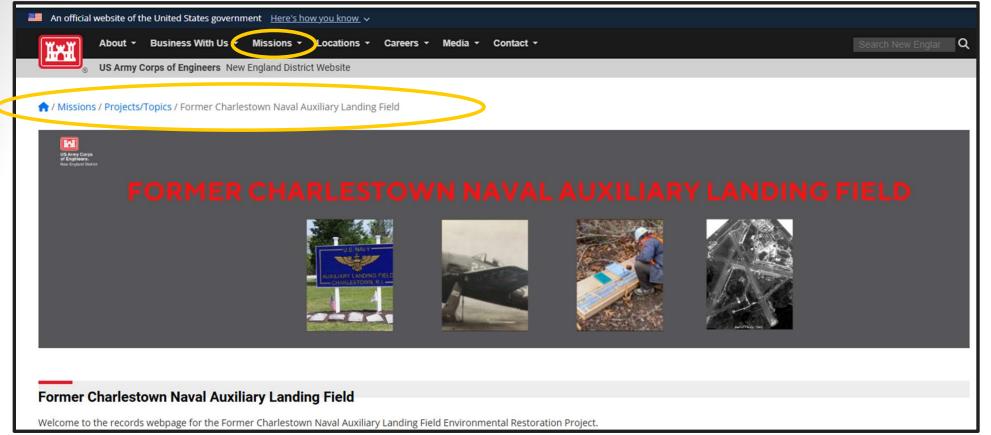


- The questionnaire is available in both electronic and hard copy format
- Intended to gather community feedback on:
 - » Preferred communication methods
 - » How often to communicate
 - » Discussion topics
 - » Community concerns
 - » Interest in forming a RAB and potential volunteer members



CNALF WEB PAGE





https://www.nae.usace.army.mil/Missions/Projects-Topics/Former-Charlestown-Naval-Auxiliary-Landing-Field/



Features

NEWS AND ANNOUNCEMENTS

ADMINISTRATIVE RECORD

EXPLOSIVE SAFETY

PER- AND POLYFLUOROALKYL SUBSTANCES (PFAS) INFORMATION

QUESTIONNAIRE

Contact

If you have any questions or comments regarding this environmental restoration project, please contact:

Mr. Gregory Hencir

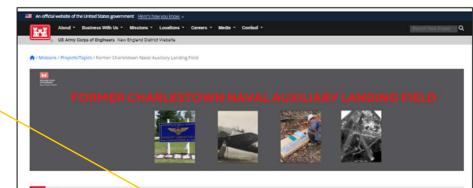
U.S. Army Corps of Engineers, New England District

696 Virginia Rd

Concord, MA 01742-2718

1-978-318-8873

gregory.m.hencir@usace.army.mil



Former Charlestown Naval Auxiliary Landing Field

Welcome to the records webpage for the Former Charlestown Navah Aprillary Landing Field Environmental Restoration Project

The U.S. Army is committed to providing the public with information on environmental restoration activities. This website was developed to provide access to documents used to select response actions for it Former Charlestown Naval Auxiliary Landing Reld site in Charlestown, Bhode Island. These documents include reports prepared by the U.S. Army Corps of Engineers and other technical and site-specific Monaganian.

This website and includes news and announcements regarding this environmental restoration project and upcoming public meeting information.



About this Project

The former Charlestown Naval Auxiliary Landing Field (CNALF) was acquired between 1940 and 1942 by the U.S. Navy and encompasses approximately 630 acres in Charlestown, Rhode Island. CNALF was used as a pice and flight crew training facility during World War It and later as a support facility to Quanter being Naval Air Station. CNALF was closed in the early 1970s and transferred to the Town of Charlestown and the U.S. Rish and Wildlife Rendand Installation of the Country of the Cou

CNALF is actively being investigated under the Defense Environmental Restoration Program as Formerly Used Defense Size Project Number D0181000809. The U.S. Army Corps of Engineers (USACE) is tasked with performing a Remedial Investigation in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act to understand the nature and extent of chemicals of potential concern (COPCs) and munitions and explosives of concern (MEC) violating to former U.S. Navy operations.

The Remodal Investigation consists of the collection, testing, and evaluation of surface and subsurface soil samples, sediment samples, surface water station, and water supply area. This Remodal Investigation work was developed in collaboration with the Town of Charlestown, U.S. Pish and Wildid's Service, and Broade Island Department of Environmental Management. The Remodal Investigation work plan (yet) professed to as the Quality Assurance Project Plan) was finalized on March 24, 2023. The U.S.A.C. is actively implementing this Remodal Investigation work plan, which is planned to continue into 2026. The results and conclusions from this investigation will be presented in a Remodal Investigation Report.

Features

NEWS AND ANNOUNCEMENTS

ADMINISTRATIVE RECORD

EXPLOSIVE SAFETY
PER-AND POLYFLUOROALKYL
SUB STANCES (PFAS) INFORMATIO

QUESTIONNAIRE

Contact

If you have any questions or comments regarding this environmental restoration project please contact:

Mr. Gregory Hencir

U.S. Army Corps of Engineers, New England District

696 Virginia Rd

Concord, MA 01742-2718

1-978-318-8873

gregory.m.hencin@usace.army.mil



RESTORATION ADVISORY BOARD (RAB)









A RAB is a community-based board that meets regularly with USACE to review progress and provide input about environmental restoration





A RAB is made up of

- Community Members
- Federal Government
- State Government
- Local Government
- Local Groups
- Regulatory Agencies







A CNALF RAB would:

- Be made up of community volunteers and government members
- Have equal RAB leaders: Community and USACE Co-Chairs
- Develop a mission statement and operating procedures to focus the RAB members and provide direction
- Meet regularly to discuss environmental restoration at CNALF FUDS

RAB meetings are open to public participation





A CNALF RAB would:

- Review and provide feedback on CNALF FUDS environmental restoration documents and activities
- Provide information to the community
- Receive input and feedback from the community
- Document meetings with meeting minutes
- RAB members serve without compensation



WHAT A RAB IS NOT



- A RAB is ONLY ONE METHOD of several methods USACE uses to engage the public
- USACE will CONTINUE TO INVOLVE THE COMMUNITY in accordance with FUDS regulations, regardless of whether a RAB is formed
- A RAB is an advisory board. A RAB is NOT A DECISION-MAKING body – environmental restoration at CNALF resides with USACE



RESTORATION ADVISORY BOARD (RAB)







HOW TO START A RAB



Code of Federal Regulations

Title 32 / Subtitle A / Chapter I / Subchapter M / Part 202

Previous / Next / Top

PART 202—RESTORATION ADVISORY BOARDS

Authority: 5 U.S.C. 551 et seq. and 10 U.S.C. 2705.

Source: 71 FR 27618, May 12, 2006, unless otherwise noted.

Department of Defense is required under 32 CFR Part 202 to assess community interest in forming a RAB every two years

USACE solicited interest every two years by public notice



HOW TO START A RAB



Code of Federal Regulations

Title 32	/ Subtitle A / Chapter I / Subchapter M / Part 202 Previous / Next / Top
>>	§ 202.2 Criteria for establishment.
	(a) Determining if sufficient interest warrants establishing a RAB. A RAB should be established when there is sufficient and sustained community interest, and any of the following criteria are met:
	(1) The closure of an installation involves the transfer of property to the community,
_	(2) At least 50 local citizens petition the installation for creation of a RAB,
₫	(3) Federal, state, tribal, or local government representatives request the formation of a RAB, or
	(4) The installation determines the need for a RAB. To determine the need for establishing a RAB, an installation should:
\bigvee	(i) Review correspondence files,
_	(ii) Review media coverage,
因	(iii) Consult local community members,
:::::	(iv) Consult relevant government officials, and
4	(v) Evaluate responses to communication efforts, such as notices placed in local newspapers and, if applicable, announced on the installation's Web site.



HOW TO START A RAB



Where there is sufficient and sustained community interest





DoD is required to assess community interest in forming a RAB every two years



COMMUNITY OUTREACH AND RESPONSE

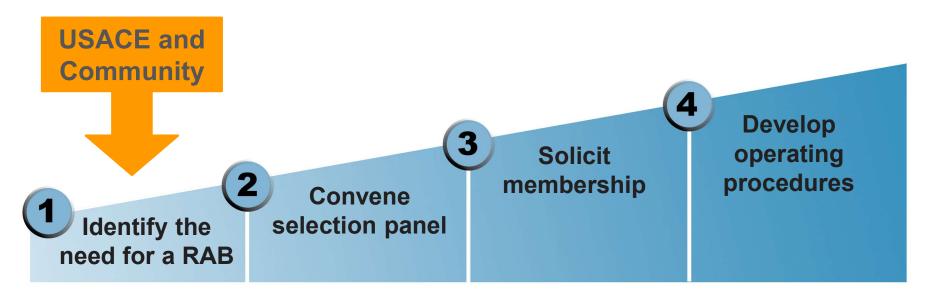


- June 2024, USACE posted a public notice on the Town of Charlestown website and Facebook pages, in The Providence Journal, and in The Westerly Sun
- To assess the public's interest in forming a RAB with public feedback due by 14 July 2024
- The USACE received several responses expressing interest in forming a RAB
- USACE is holding this public meeting for further community feedback on forming a RAB



START A RAB



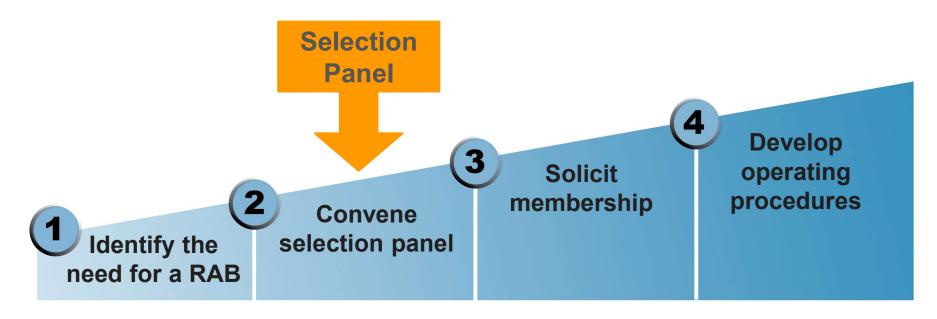


Steps to establish a RAB



START A RAB





Steps to establish a RAB



SELECTING COMMUNITY MEMBERS



- A SELECTION PANEL made up of individuals who represent the community's diverse interests
- The selection panel would IDENTIFY COMMUNITY LEADERS AND REPRESENTATIVES for RAB membership
- Ensuring RAB membership has DIVERSITY and BALANCE
- The selection panel usually EXISTS ONCE during creation of a new RAB
- Members of the selection panel would NOT BE SELECTED as RAB members



SELECTING COMMUNITY MEMBERS



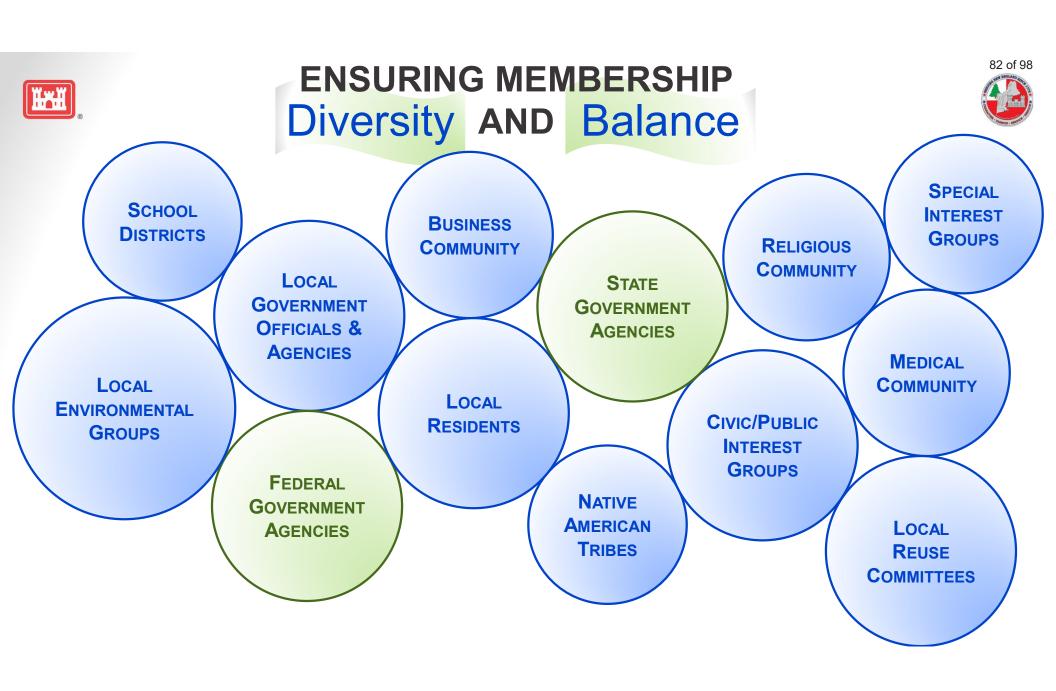
A Selection Panel would establish:

Procedures for nominating community RAB members

Process for reviewing community interest forms

Criteria for selecting community RAB members

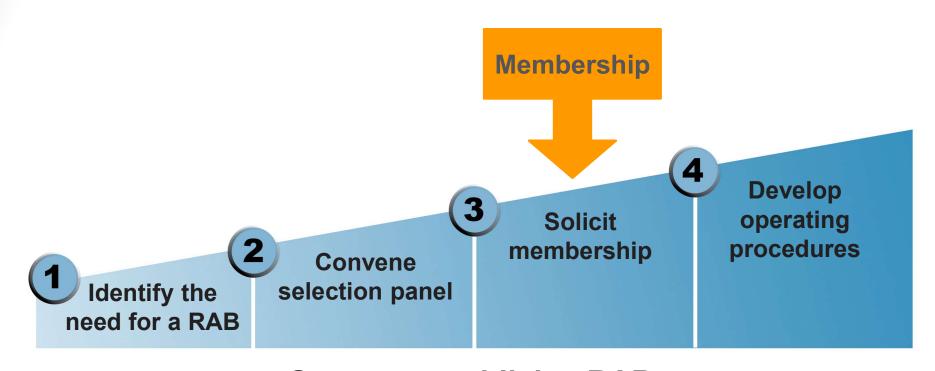
Announce the RAB member nominees





START A RAB



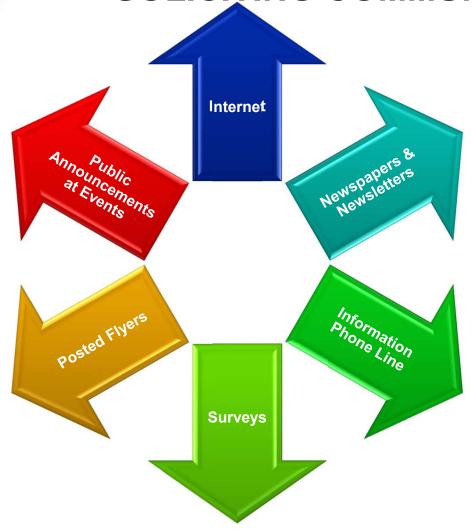


Steps to establish a RAB



SOLICITING COMMUNITY MEMBERS





Announce and distribute RAB interest forms through several methods to ensure as many people as possible in the community have the opportunity to respond





ROLES AND RESPONSIBILITIES



USACE Co-Chair

- Attend all RAB meetings
- Coordinate with the Community Co-Chair
- Ensure USACE participates in an open and constructive manner
- Ensure community issues and concerns related to **CNALF** restoration are addressed
- Refer issues not related to CNALF restoration to the appropriate officials
- Report back to USACE

Community Co-Chair

- Attend all RAB meetings
- Coordinate with the **USACE Co-Chair**
- Ensure community members participate in an open and constructive manner
- Ensure community issues and concerns related to **CNALF** restoration are addressed
- · Report back to the community
- Serve without compensation

RAB Community Members

- Attend RAB meetings
- Provide advice and comment on CNALF restoration issues to the decision makers
- Represent and communicate community interests and concerns to the RAB
- Conduit for exchange of information between community, DoD installation, and regulatory agencies regarding CNALF restoration
- Serve without compensation

USACE

- Attend RAB meetings
- Communicate with RAB members, providing advice/input on CNALF removal project timelines, and contractor reports
- Ensure federal and state environment standards and regulations are identified and addressed
- Provide resources for communities and agencies regarding CNALF environmental and munitions response activities
- Assist with RAB member education and training



ROLES AND RESPONSIBILITIES



Facilitator

- Neutral
- Provide technical advice
- Ensure all viewpoints are considered
- Ensure all agenda items are addressed
- Monitor the progress of action items between RAB meetings

Public

- Participate in community
 RAB meetings
- Observe rules and operating procedures at meetings or when interacting with RAB members
- Ask questions to ensure understanding of RAB activities and impact on the community

Tribal

- Attend RAB meetings
- Ensure tribal env. standards and regulations are identified and addressed
- Educate RAB members regarding tribal sovereignty, tribal laws and their application to the property
- Assist with RAB member education and training

State Regulatory Agency

- Attend RAB meetings
- Ensure state env. standards and regulations are identified and addressed
- Serve as an information, referral and resource
- Assist with RAB member education and training

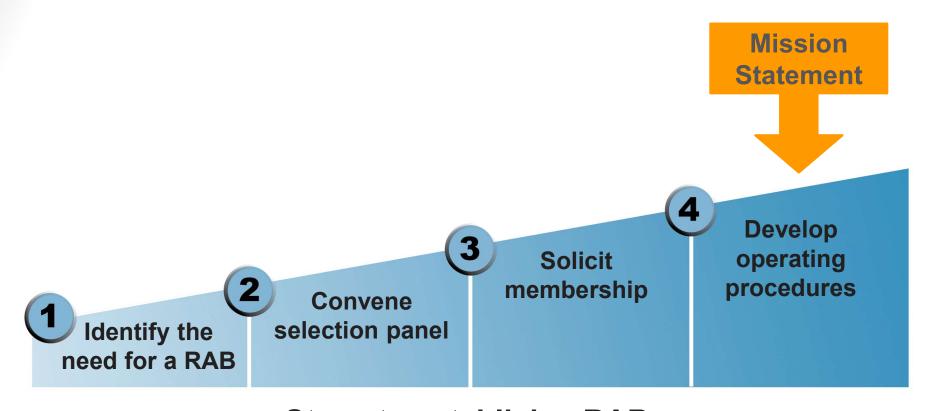
USFWS

- Attend RAB meetings
- Ensure federal environment standards and regulations are identified and addressed
- Assist with RAB member education and training



START A RAB





Steps to establish a RAB



OPERATING A RAB



An officially formed RAB should:

- Should set a goal to be in full operation within six months
- Announce formation and publish RAB members
- Announce meeting schedule, frequency, and location
- Develop a mission statement
- Establish formal operating procedures to govern RAB:
 - » Meetings
 - » Membership
 - » Conflict resolution



OPERATING

RAB MISSION STATEMENT



Operating Instructions [DøD Site Name] Restoration Advisory Board

PROCEDURES or BY-LAWS, storation Advisory Boards (RABs) were formed by the Department of Defense to promote cooperation between the government and communities by establishing equal membership status for all participants, and soliciting individual advice rather than forced consensus.

Mission of the Board

Mission of the Board

The [DoD Site Name] RAB advises the USACE and regulatory agencies of community concerns on environmental cleanup, funding, and priorities.

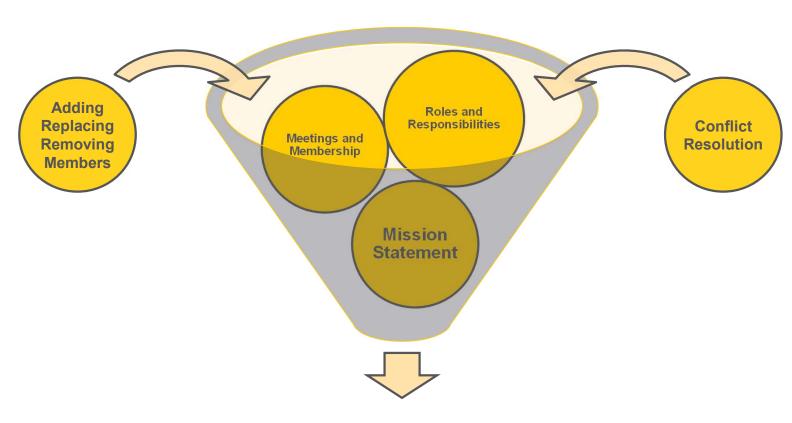
The policy open communication and the exchange of ideas, interest and the communication and the exchange of ideas, interest and the communication and the exchange of ideas, interest and the communication and the exchange of ideas, interest and the communication and the exchange of ideas, interest and the communication and the exchange of ideas, interest and the communication and the exchange of ideas, interest and the communication and the exchange of ideas, interest and the communication and the exchange of ideas, interest and the communication and the exchange of ideas, interest and the communication and the exchange of ideas, interest and the communication and the exchange of ideas, interest and the communication and the exchange of ideas, interest and the communication and the exchange of ideas, interest and the communication and the exchange of ideas, interest and the communication are communication and the exchange of ideas, interest and the communication are communication. Through open communication and the exchange of ideas, interest and concerns, the RAB supports the search for safe, timely and effective and concerns, the RAB supports the search for safe, timely and effective and concerns so that the former [DoD Site Name] may be ultimately The RAB is committed to public outreach and the representation of the interest of the community at large.

(RAB members adopted this statement at the [MM/DD/YYYY] Executive Session.)



FORMING A RAB





Operating Procedures



RESTORATION ADVISORY BOARD (RAB)





US Army Corps of Engineers ®

New England District

Community



RESTORATION ADVISORY BOARD (RAB)







WHY FORM A RAB?



Bad decisions occur when decision makers are poorly informed, due to incomplete, faulty, or bad information

Herbert A. Simon

Political Scientist and 1978 Nobel Prize Winner



BENEFITS OF A RAB



- It's an opportunity to BECOME INVOLVED in the CNALF FUDS restoration process through RAB membership or by attending a RAB meeting
- A RAB is a COLLABORATIVE forum for exchange of information and PARTNERSHIP
- Allow for more structured community PARTICIPATION
- RABs help INFORM government decision-makers
- RABs improve the SOUNDNESS of government decisions



BENEFITS OF A RAB



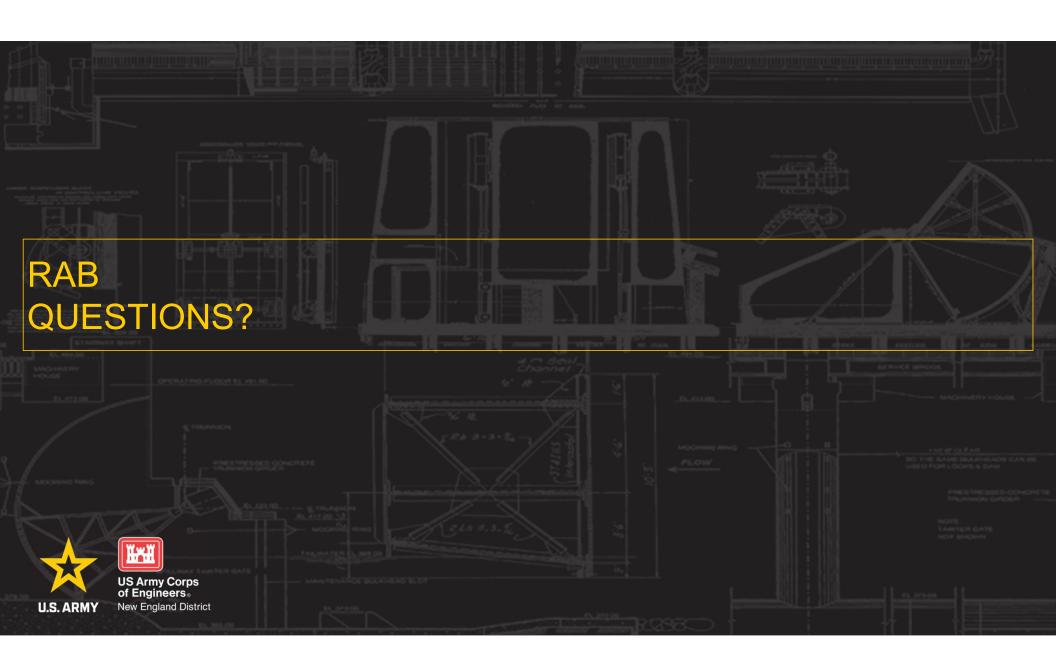
- A RAB with balanced representation of the entire community BUILDS RELATIONSHIPS and TRUST
- Opportunity to exchange FACTS and influence PERSPECTIVES
- Information and expertise from ALL STAKEHOLDERS
- Successful RABs ALIGN the project with COMMUNITY GOALS
- Identify the most efficient and productive means of RESTORING OUR ENVIRONMENT



WHY FORM A RAB?



- A RAB contributes to BETTER UNDERSTANDING
- A RAB contributes to BETTER COMMUNICATION
- A RAB contributes to BETTER DECISIONS
- RABs ensure environmental cleanup is responsive to COMMUNITY NEEDS
- This is your community It's an opportunity for YOU to provide input on the environmental cleanup and restoration process at the CNALF FUDS





CONTACT INFORMATION



U.S. Army Corps of Engineers

Gregory Hencir
 Project Manager
 gregory.m.hencir@usace.army.mil
 978-318-8873

Hana Engineers & Consultants, LLC

- Tracey Epperley
 Hana Project Manager
 <u>tracey.Epperley@hanaengineers.com</u>
 843-324-9269
- Andy Owens
 Hana Communications Specialist
 andy.owens@hanaengineers.com
 843-480-7626



