

FORMER NIKE ANTI-AIRCRAFT MISSILE BATTERY LAUNCH AREA BU-51/52, HAMBURG, NY

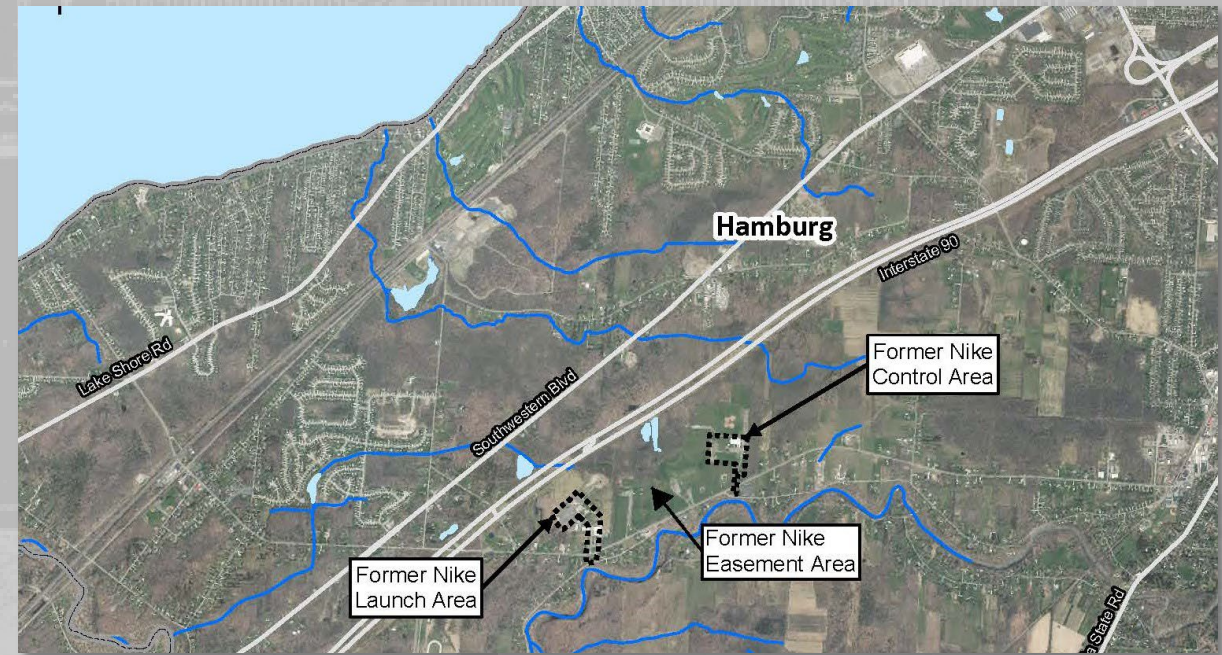
Formerly Utilized Defense Sites (FUDS)
Program

Public Meeting for the Proposed Plan

Erin Kirby
Project Manager
U.S. Army Corps of Engineers
New England District
Date: 22 February 2023



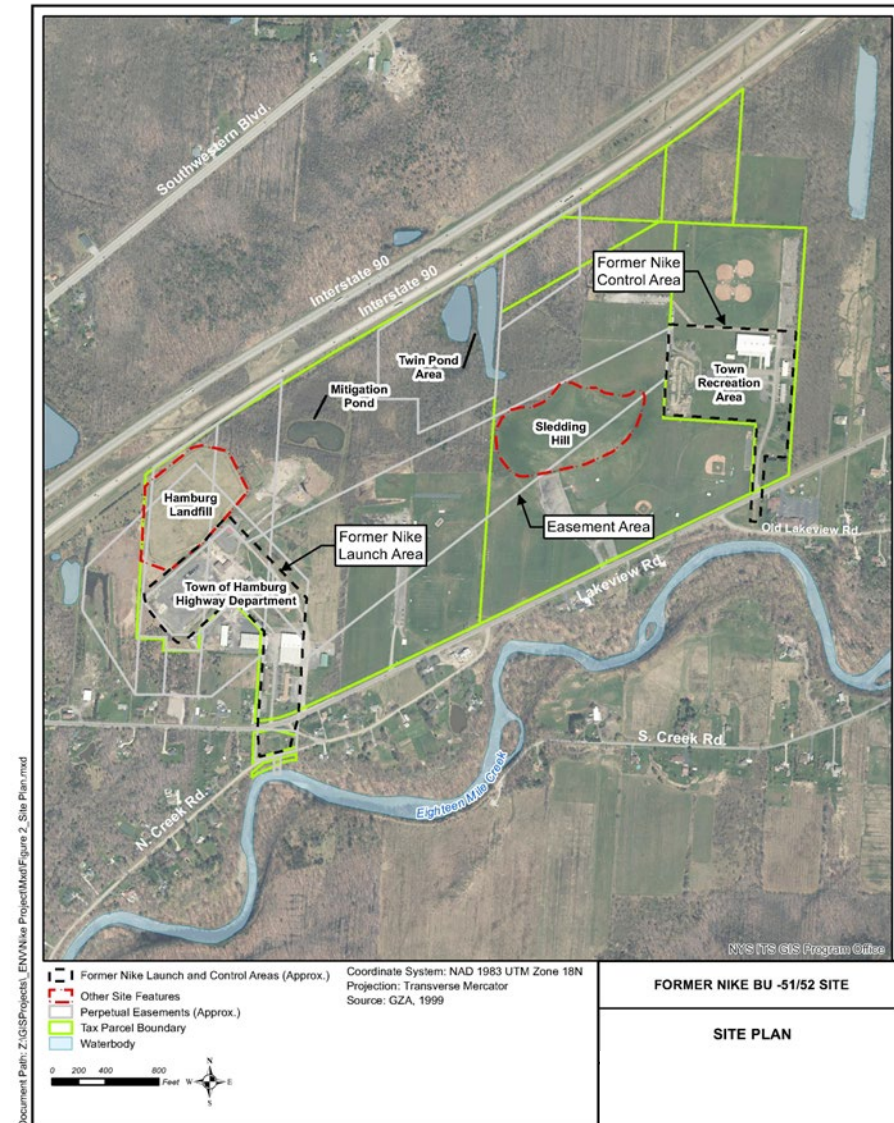
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AGENDA

- Introduction
- CERCLA Process
- Nike BU 52/52 Site (Background, History, Use)
- Previous Investigations
- Remedial Investigation Results
- Risk Management Methodology
- Next Steps
- Ways to Comment
- Questions





INTRODUCTION – PROJECT TEAM



- United States Army Corps of Engineers (USACE) New England District
- USACE Contractor: Seres – Arcadis Joint Venture (JV)
- New York State Department of Environmental Conservation (NYSDEC)
- New York State Department of Health (NYSDOH)
- Town of Hamburg, NY (property owner)





INTRODUCTION – MEETING OBJECTIVES



Purpose of Public Meeting

- Present the Formerly Used Defense Sites (FUDS) Program and Process
- Present the background for Former Nike Anti-Aircraft Missile Battery Launch Area BU-51/52 (Launch Area)
- Present the results of the Remedial Investigation (RI) conducted at the Launch Area for DoD impacts
- Present the Proposed Plan for the Launch Area for DoD impacts
- Receive public input on the Preferred Approach





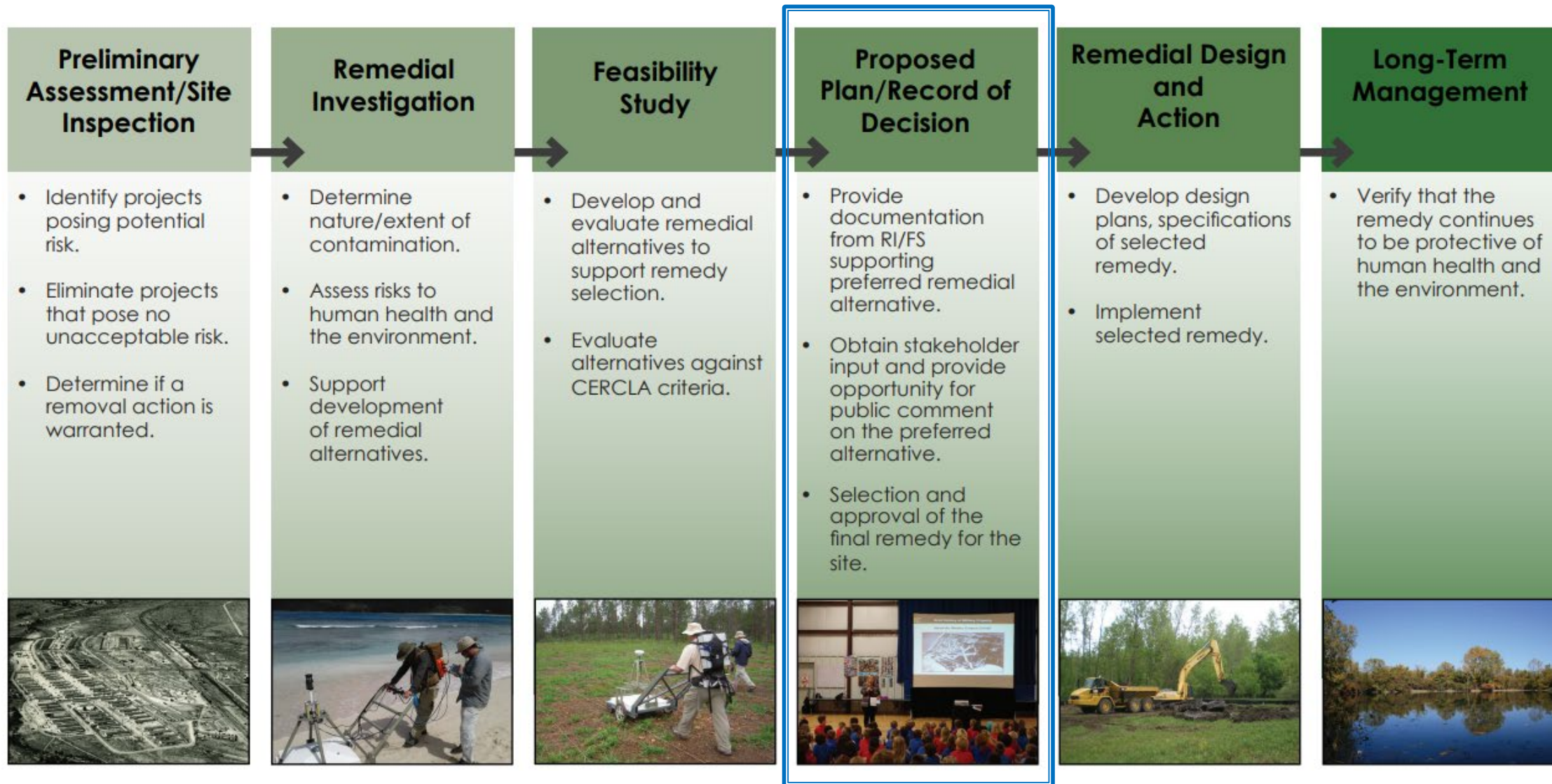
FORMERLY USED DEFENSE SITES (FUDS)



- Established by U.S. Congress in 1986 as part of the Defense Environmental Restoration Program (DERP) Act
- Provides for the environmental investigation and cleanup of contamination at properties that were formerly owned by, leased to, or otherwise possessed by the United States Department of Defense (DoD) that were transferred from DoD control prior to 17 October 1986
- Executed by USACE pursuant to the Comprehensive Environmental Response, Compensation, and Liabilities Act (CERCLA, aka Superfund)
- Goal is to investigate and address environmental contamination that was the result of DoD activities



CERCLA PROCESS

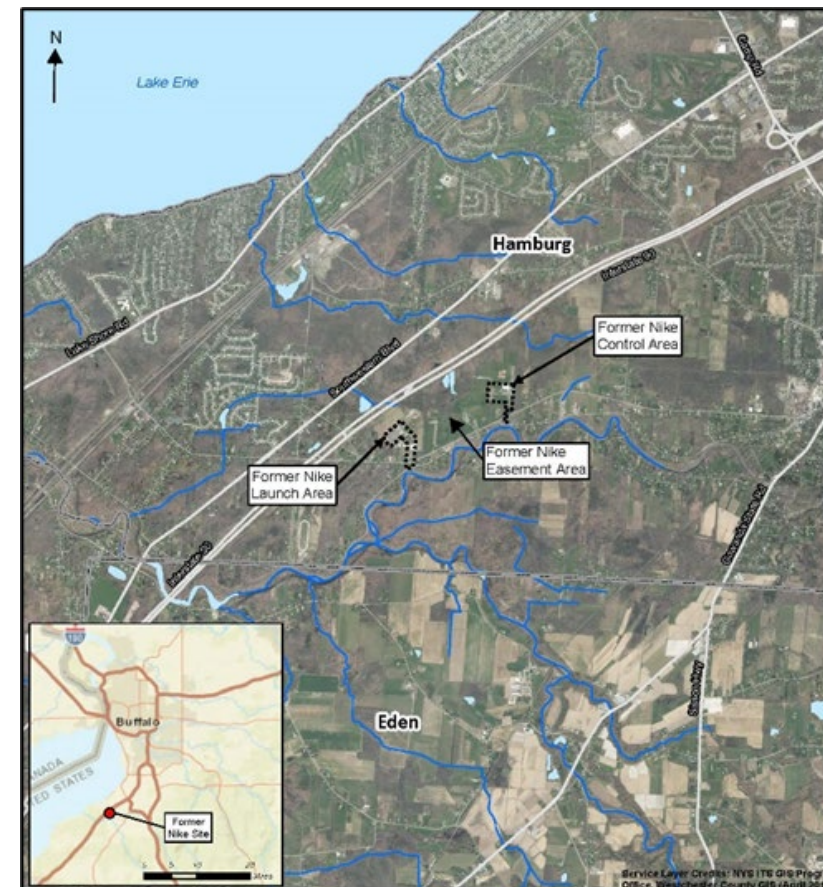




SITE LOCATION AND BACKGROUND



- Located on Lakeview Road in Hamburg, Erie County, New York, approximately 5 miles southeast of Lake Erie
- Currently owned by the Town of Hamburg. Site uses include:
 - Town of Hamburg Highway Department maintenance facility
 - Former Town of Hamburg Landfill (capped and closed in 1984)
 - Hamburg Police Department training center
 - Highway Department materials storage (i.e., road salt, gravel, construction supplies)





SITE LOCATION AND BACKGROUND



Current Highway Dept.
Storage Area
(Former Nike Missile
Silos)



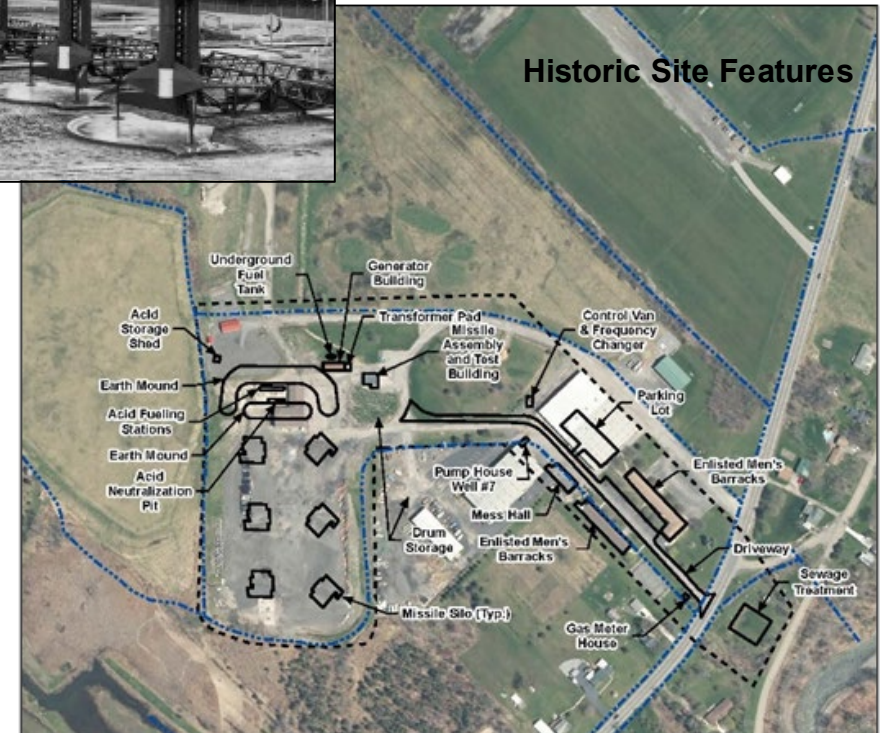
Capped Landfill



Firearms Training Area

FORMER LAUNCH AREA SITE HISTORY

- Location of former Nike Ajax Missile launch facility from 1955 to 1961
 - 60 Nike Ajax missiles stored in 6 underground silos
 - Support facilities, including fueling stations, also present
 - A control area was located to the northwest (current location of Town Recreation Area – not included in FUDS program)
- Property transferred from DoD to General Services Administration (GSA) in 1965
- Property transferred from GSA to Town in 1968

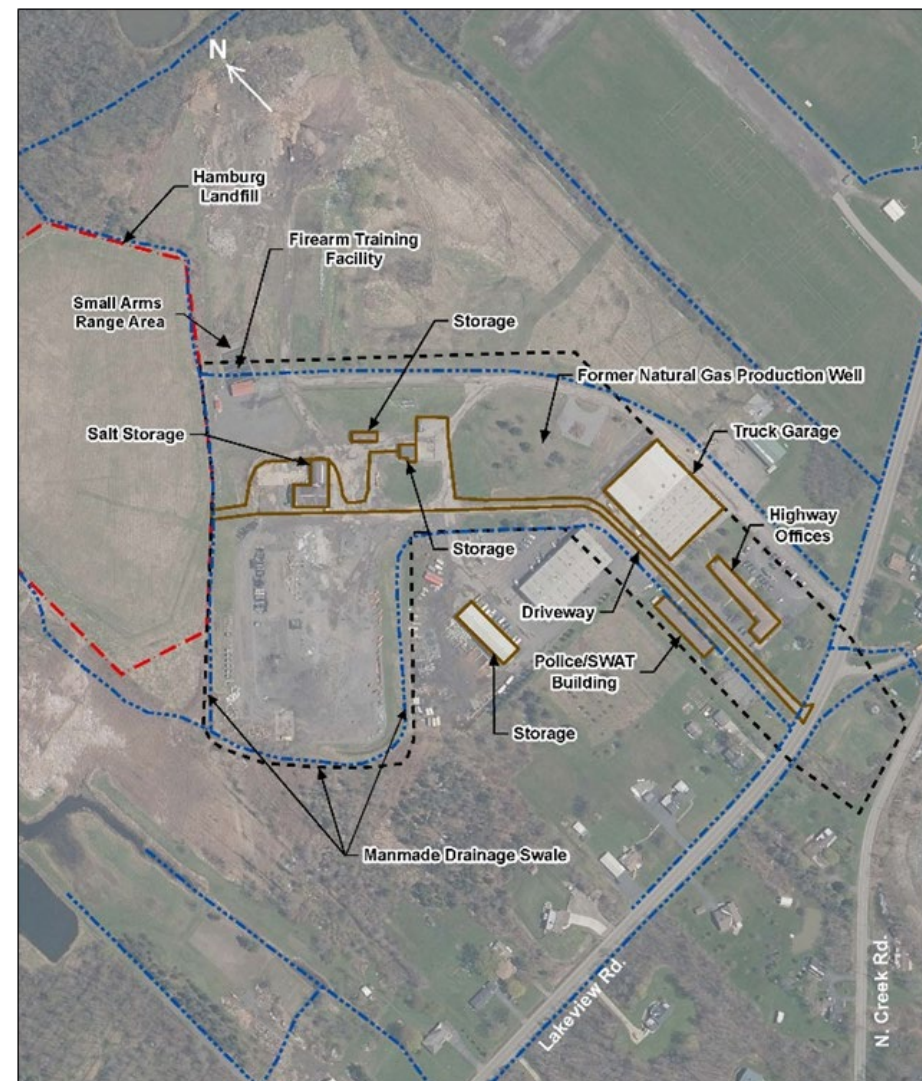




SITE USE



- Current site use is commercial /industrial (highway maintenance facility and police training) and is expected to continue as such
- Silos were filled by the Town using asphalt millings in last 10 years
- **Humans:** Site workers/staff, construction workers, visitors
- **Environmental:** Limited to local plants and animals. Most of site is gravel, asphalt, and buildings





PREVIOUS INVESTIGATIONS



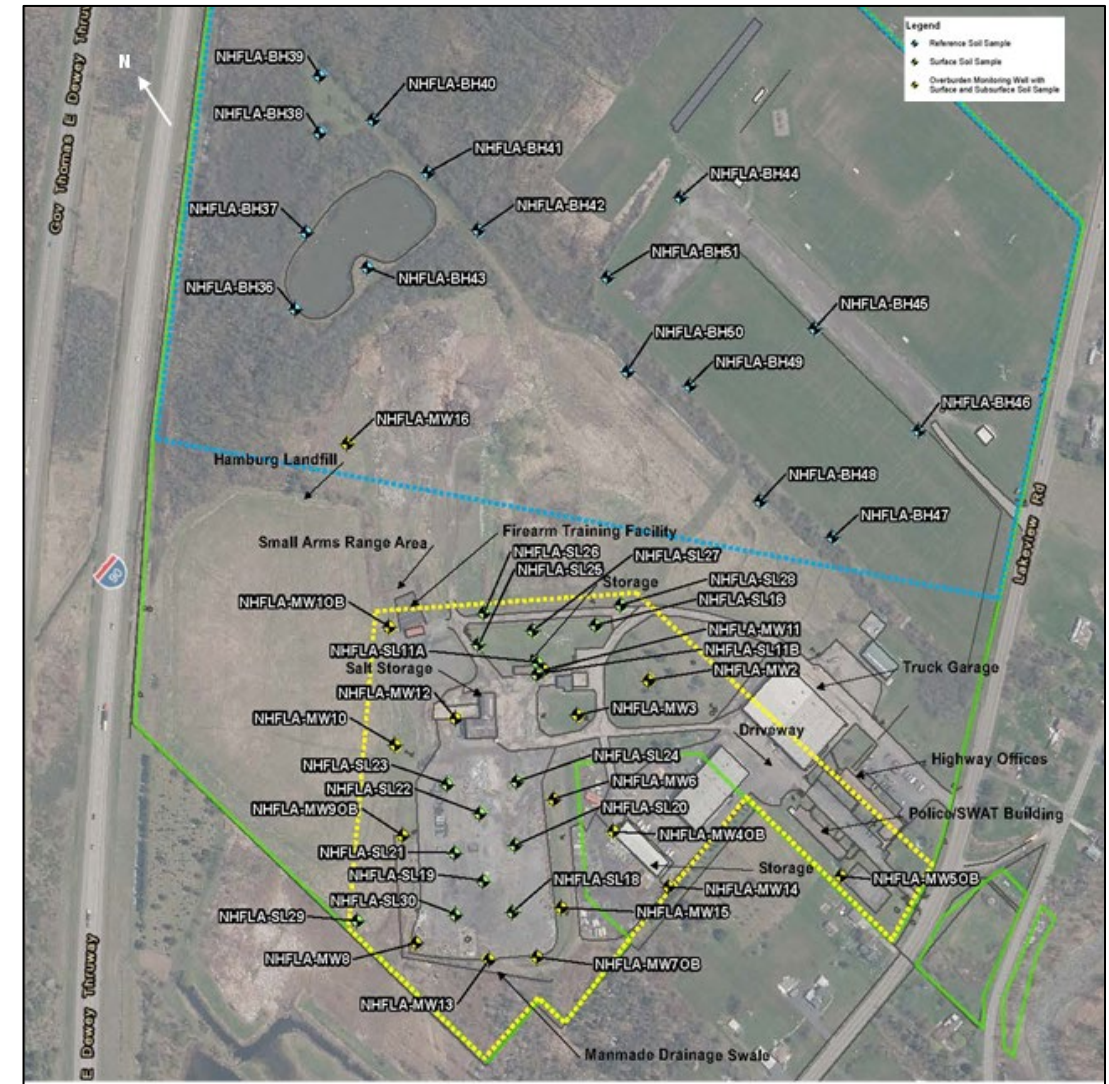
- **1989 Confirmation Study and Contamination Evaluation**
 - Groundwater sampling found elevated metals concentrations (arsenic, cadmium, lead, manganese)
- **1991 Inventory Project Report**
 - Concluded that former Launch Area was eligible under the DERP-FUDS program
- **1999 Environmental Study**
 - 36 surface soil, 18 subsurface soil, and 11 groundwater samples collected from areas of concern, including UST and former silo areas
 - Benzene and ethylbenzene detected in groundwater in UST area, and metals present in groundwater in other areas of site, at concentrations greater than NYSDEC standards
- **2000 Site Investigation (SI)**
 - Additional subsurface soil and groundwater sampling with similar results to 1999 study
- **2000 Screening Level Human Health Risk Assessment**
 - Concluded that adverse health effects for residents near the former Launch Area were unlikely



2020 – 2022 REMEDIAL INVESTIGATION (RI)



- **What did we do?**
 - Groundwater sampling
 - Soil sampling
 - Human health and ecological risk assessment
- **What did we look at?**
 - Former Silos & Fueling Areas
 - Former UST/AST Areas
 - Former Generator/Transformer Area
 - Former Drum Storage Area
- **What did we look for?**
 - Volatile Organic Compounds (VOCs)
 - Semi-Volatile Organic Compounds (SVOCs)
 - Metals
 - Polychlorinated biphenyls (PCBs)
 - Hydrazine (missile fuel component)





2020-2022 RI – SOIL INVESTIGATION



- **Surface soil samples**
 - Collected from top 12 inches of soil column at 32 locations
- **Subsurface soil samples**
 - 46 samples collected from 21 locations using drilling rig
 - Depths from 1 foot below ground surface to 17 feet below ground surface (top of bedrock)





2020-2022 RI – GROUNDWATER INVESTIGATION

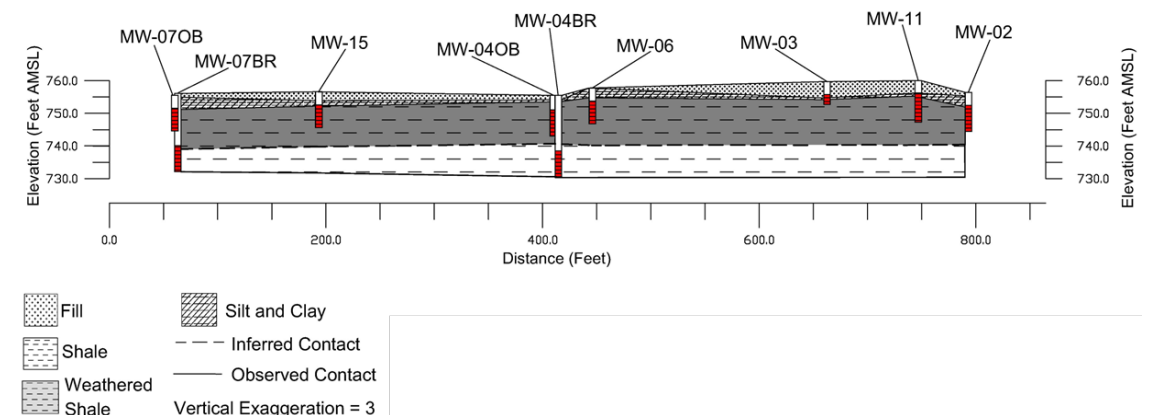
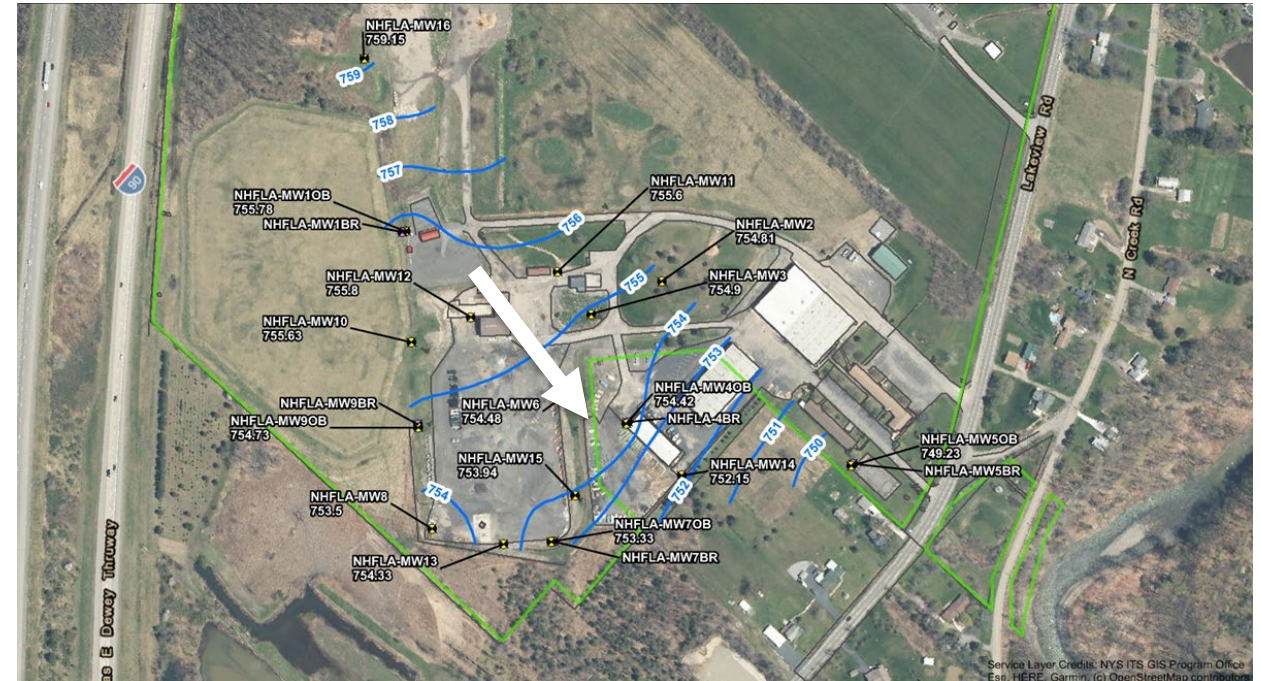


- **Groundwater Monitoring Well Installation**
 - 16 wells installed in overburden (above bedrock)
 - 5 wells installed in bedrock
- **Groundwater Sampling**
 - September 2020 and December 2020 (21 locations)



2020-2022 RI - RESULTS

- **Geology & Hydrogeology**
 - Overburden soil is primarily fill and reworked native material
 - Weathered bedrock layer is present between overburden and solid bedrock
 - Shale bedrock generally within 12 to 17 feet below ground surface
 - Groundwater flow is to the south / southeast toward 18 Mile Creek both in overburden groundwater and bedrock groundwater





2020-2022 RI - RESULTS



- **Soil**
 - Findings: No evidence of DoD contamination in site soils.
 - Conclusion: No further soil sampling required to assess DoD impacts.





2020-2022 RI - RESULTS



- **Groundwater**

- Findings: No evidence of DoD contamination in site groundwater.
- Conclusion: No further groundwater sampling required to assess DoD impacts.



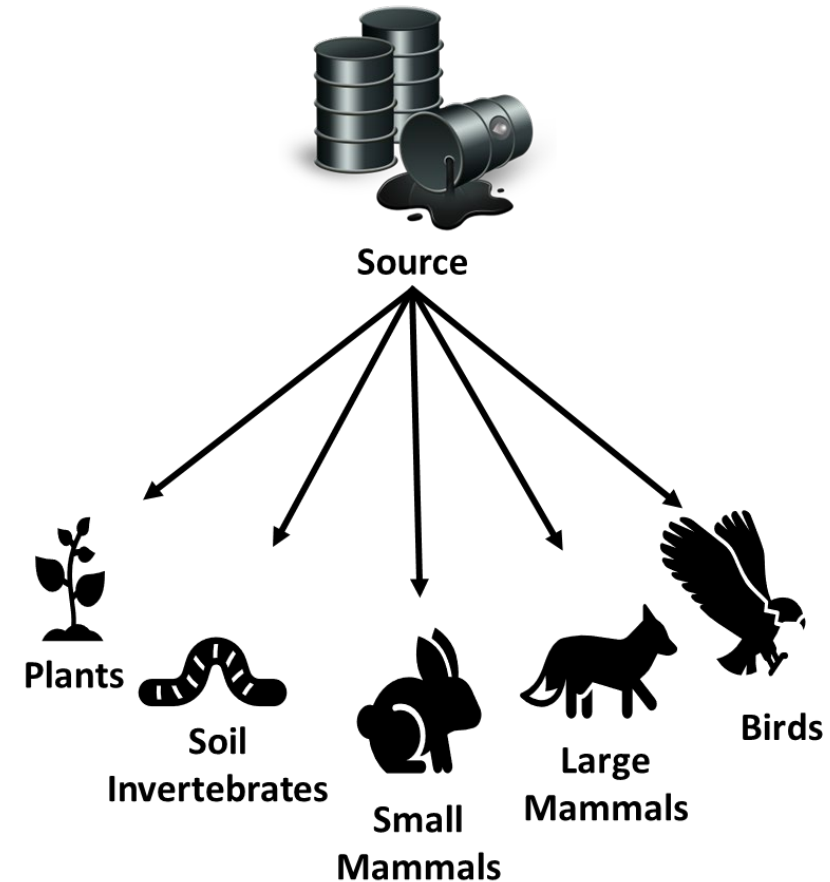
2020-2022 RI – HUMAN HEALTH RISK ASSESSMENT



- Performed using EPA Risk Assessment Guidance for Superfund (RAGS)
- Objective: Evaluate potential human health risks based on the current and anticipated site use and the site-specific sampling data
- Conclusion: There are no unacceptable risks to humans from DoD contaminants.



- Screening Level Ecological Risk Assessment (SLERA) conducted using EPA protocols to provide a basis for deciding if remedial action is necessary to protect environmental health
- Objective: Evaluate potential ecological health risks based on the current habitat conditions and the site-specific sampling data
- Conclusion: There is no unacceptable risk to ecological receptors (plants, soil invertebrates, birds, and mammals) from DoD-contaminants





2020-2022 RI - CONCLUSIONS



- Contaminants found in **soil** are not associated with past use of the site by DoD and do not pose a risk to human health and the environment under the current and anticipated future site use
- Contaminants found in **groundwater** are not associated with past use of the site by DoD and do not pose a risk to human health and the environment under the current and anticipated future site use





PROPOSED PLAN



- USACE proposes that **No Action** is required for the former Nike BU 51/52 Launch Area FUDS as there are no unacceptable risks related to human health or ecological receptors at the site related to past DoD use of the site





NEXT STEPS



- Take public comments under consideration and prepare responses to comments
- Public comment Period: February 15 – March 15, 2023
- Prepare a Decision Document, with responsiveness summary and considering all applicable comments
- Final Decision Document placed in the Town of Hamburg Public Library and online



HOW TO COMMENT



- Verbally at tonight's meeting
- Fill out a form and email or mail by March 15, 2023 to:

Email: Erin.Kirby@usace.army.mil

Mail: Erin Kirby

USACE–New England District
696 Virginia Road
Concord, MA 01742

Email: cenae-pa@usace.army.mil

Mail: Elizabeth Gosselin

USACE–New England District
696 Virginia Road
Concord, MA 01742

- Documents available at:
 - <https://www.nae.usace.army.mil/Missions/Projects-Topics/Former-NIKE-Site-Hamburg-New-York/>
 - Hamburg Public Library - 102 Buffalo Street, Hamburg, NY 14075



QUESTIONS?

