

**PUBLIC MEETING
REMEDIAL INVESTIGATION – FORMER
WAIKOLOA MANEUVER AREA,
SECTORS 17 A-F (PROJECT 21)**

Contract No. W912DY20D0017
Task Order No. W912DY22F0153

25 October 2023



U.S. ARMY



US Army Corps
of Engineers®



U.S. ARMY



US Army Corps
of Engineers®

AGENDA

1. Introduction
2. Meet the Project Team
3. The CERCLA Process & Remedial Investigation Objectives
4. Site Background
5. Previous Investigations
6. Planned Remedial Investigation Field Work
7. Coordination of Property Access
8. Project Schedule
9. Closing Discussions

Please hold all questions during the presentation. A question-and-answer period will also be provided at the end of the meeting.

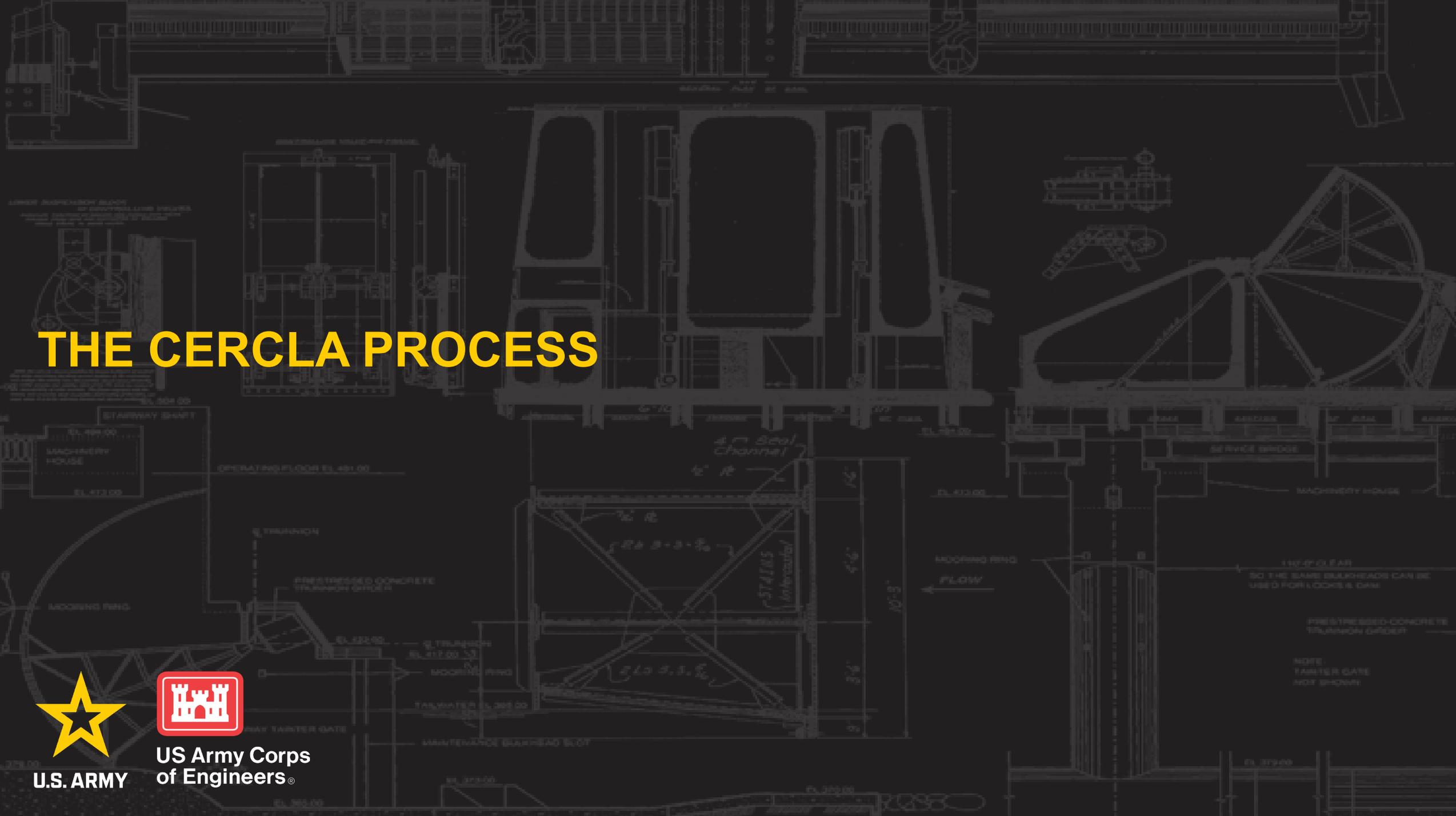
THE CERCLA PROCESS



U.S. ARMY



US Army Corps
of Engineers®





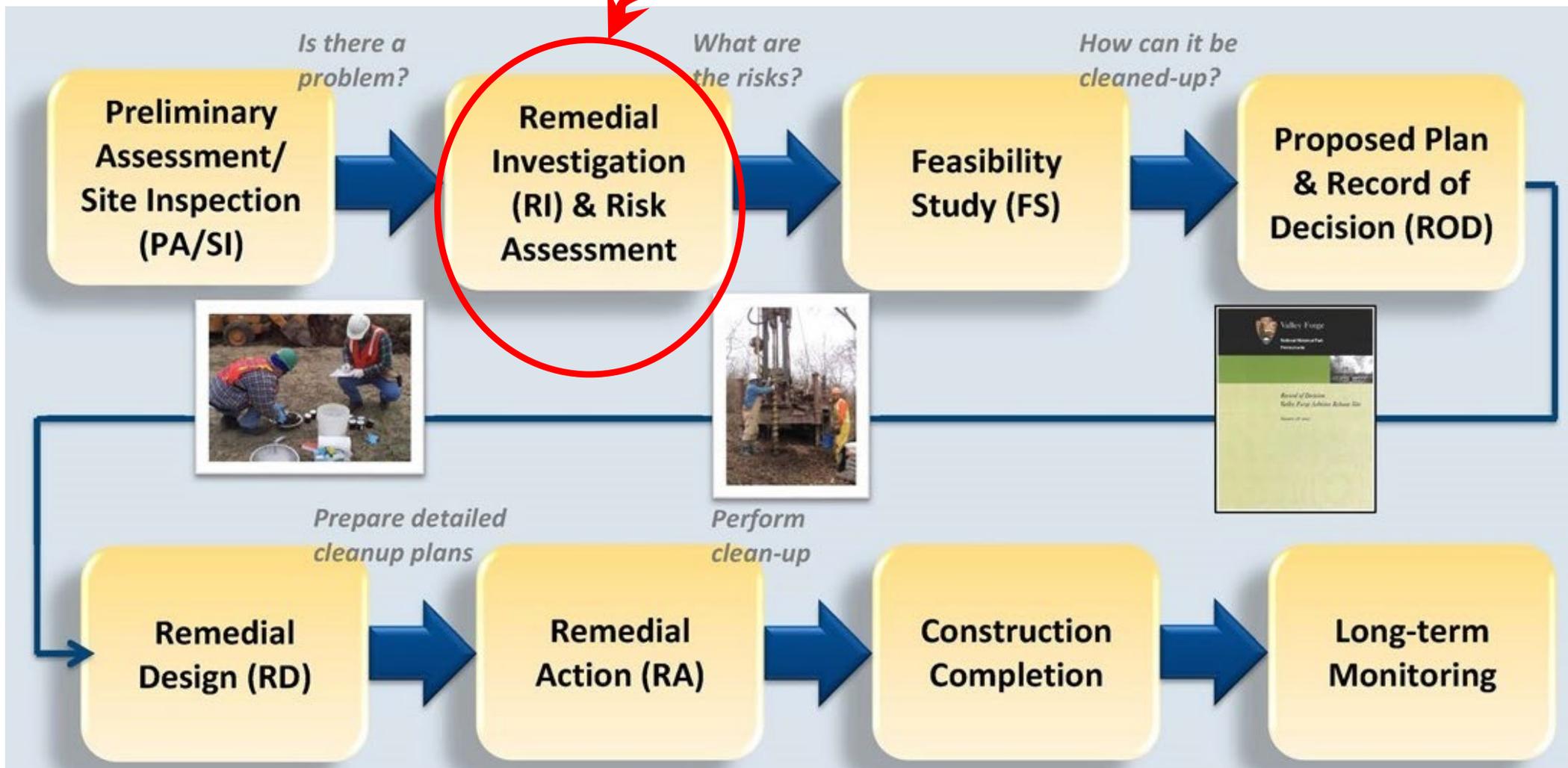
U.S. ARMY



US Army Corps
of Engineers®

CERCLA PROCESS

Current Stage for Project 21 (Sector 17A-F)





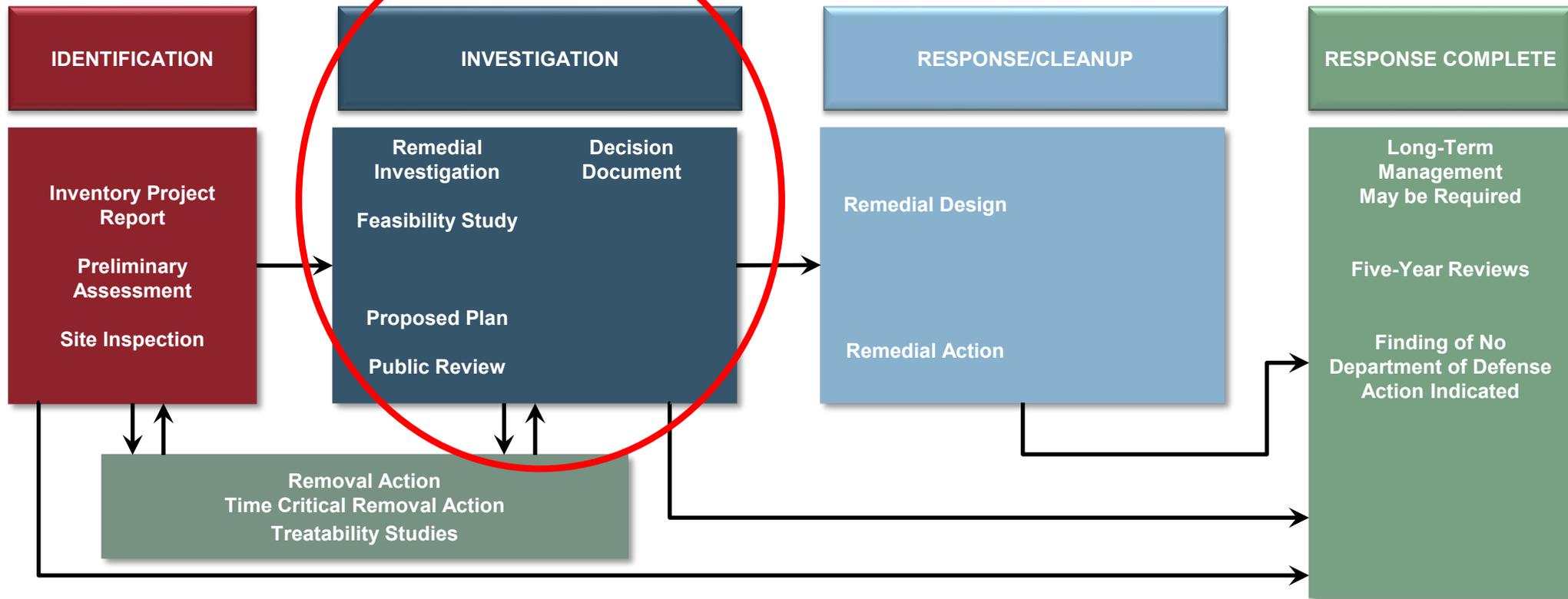
U.S. ARMY



US Army Corps
of Engineers®

FORMERLY USED DEFENSE SITES PROCESS

Current Stage for Project 21 (Sector 17A-F)



(U.S. Army Corps of Engineers Environmental Regulation 200-3-1, FUDS Program Policy, September 2020)

REMEDIAL INVESTIGATION OBJECTIVES

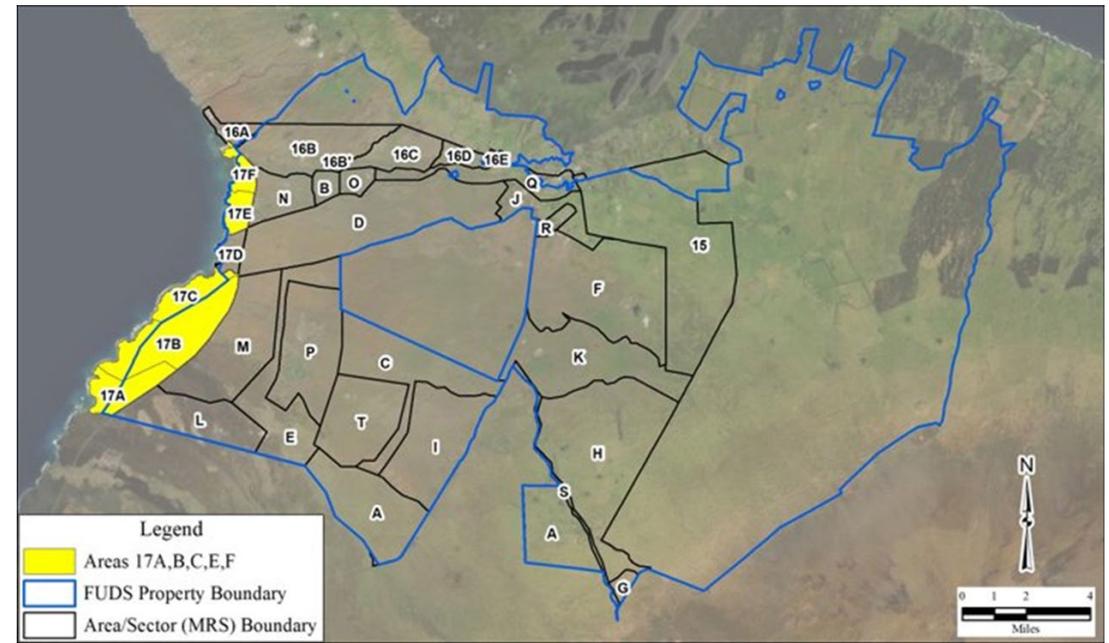
- The objective of the remedial investigation project is to collect additional field data to complete the investigation and determine the nature and extent of munitions contamination in Sector 17A-F and determine the level of risk posed by the presence of munitions.
- Cultural and natural resources will be identified and protected during the investigation.





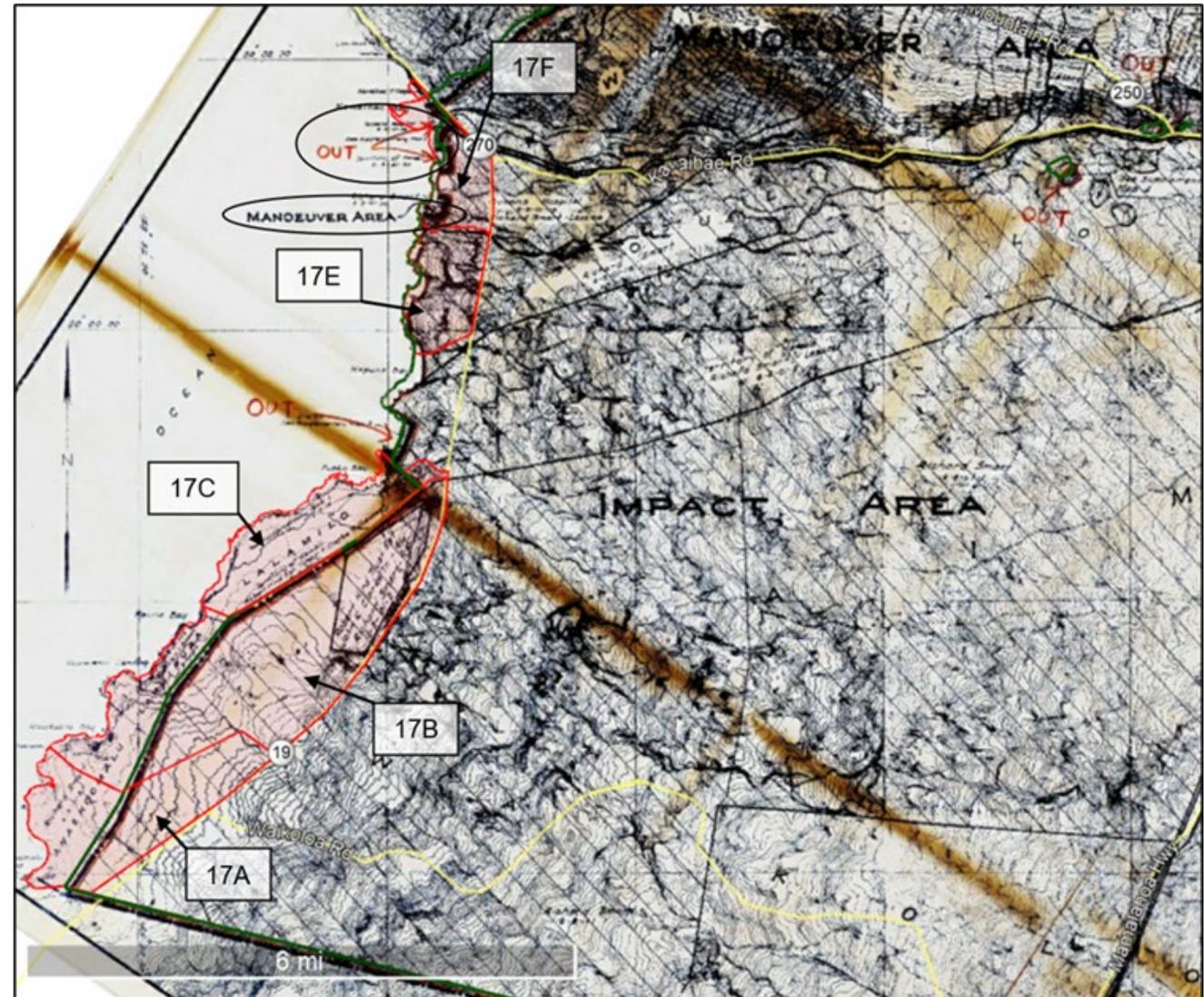
SITE LOCATION

- The former Waikoloa Maneuver Area formerly used defense property consists of approximately 185,000 acres. A total of 23 individual FUDS projects cover approximately 100,000 acres.
- Project 21 MRS (Sectors 17A, 17B, 17C, 17E, and 17F; or Sector 17 A-F) consists of approximately 6,874.6 acres located in the western reaches of the WMA, along the island's Kohala coastline.



SITE HISTORICAL USE

- 2nd and 5th Marine Division land use:
 - 5th Marine April 10, 1945 license with Parker Ranch.
 - Marines practiced the loading and unloading of personnel and equipment on landing vehicles, tracked at sea, followed by a day of beach landings at Hapuna Bay in preparation for the Iwo Jima invasion (February 19 – March 26, 1945).



PREVIOUS INVESTIGATIONS



US Army Corps
of Engineers®

U.S. ARMY

PREVIOUS INVESTIGATIONS

- 1946 Ordnance and Explosives Disposal
- 1954 Explosives Ordnance Disposal (EOD) Clearance
- 1996 Phase I Environmental Assessment
- 2006 Phase III Engineering Evaluation Cost Analysis (EE/CA)
- 2013 Military Munitions Response Program (MMRP) Realignment
- 2013 Soil and Groundwater Sampling and Characterization Report
- 2013 Non-Time Critical Removal Action
- 2014 Non-Time Critical Removal Action
- 2015 Non-Time Critical Removal Action
- 2018 Remedial Investigation/Feasibility Study
- 2015 Man-Portable Vector Follow-On Demonstration
- 2021 Geospatial Imaging LiDAR and Orthophotography
- 2021 Historical Data Review and Data Gap Analysis
- 2021 Historical Photographic Analysis

- This planned RI is intended to fill data gaps and complete the CERCLA requirement.

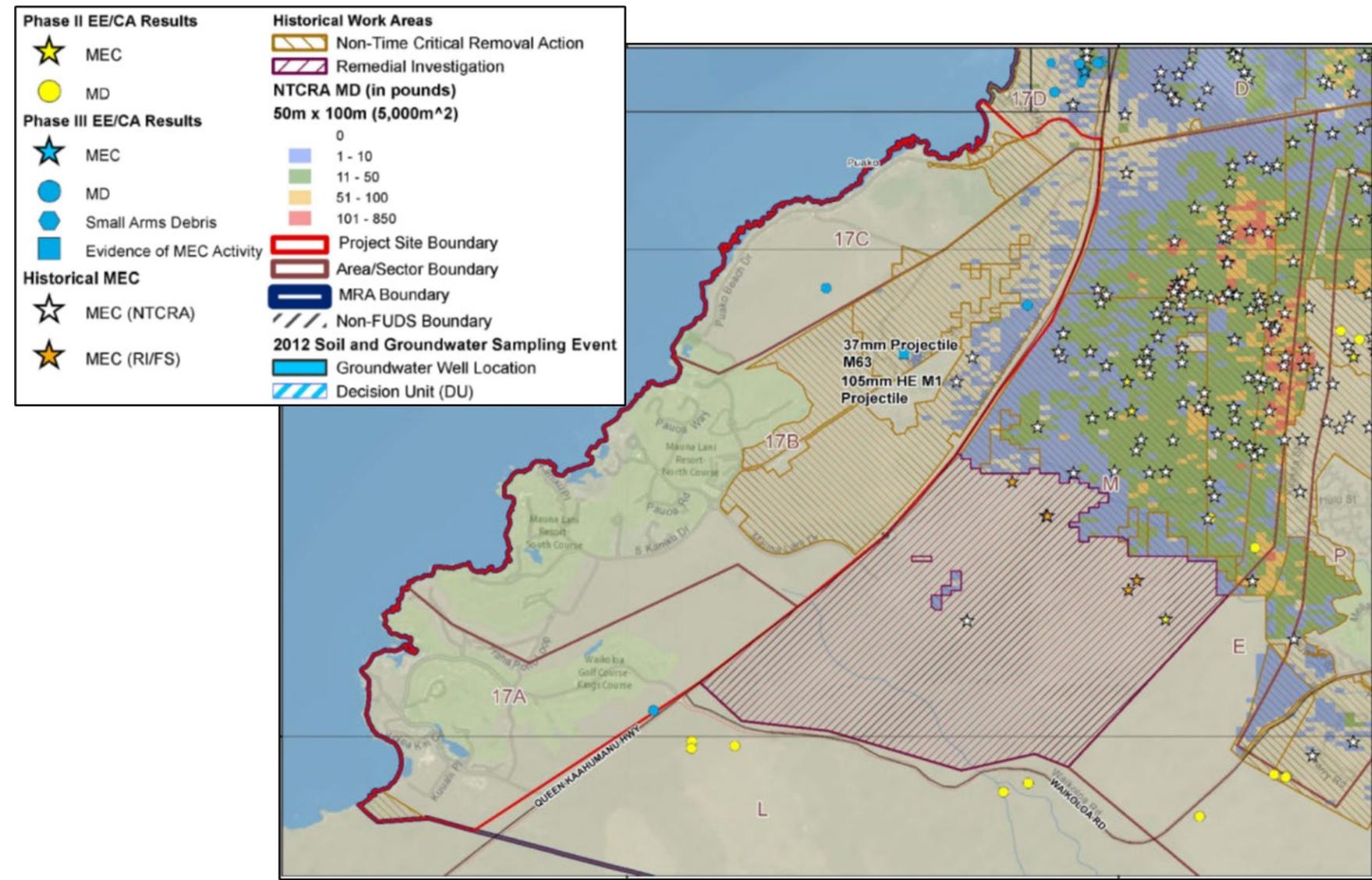


U.S. ARMY



US Army Corps of Engineers

PREVIOUS INVESTIGATIONS SECTORS 17A-C



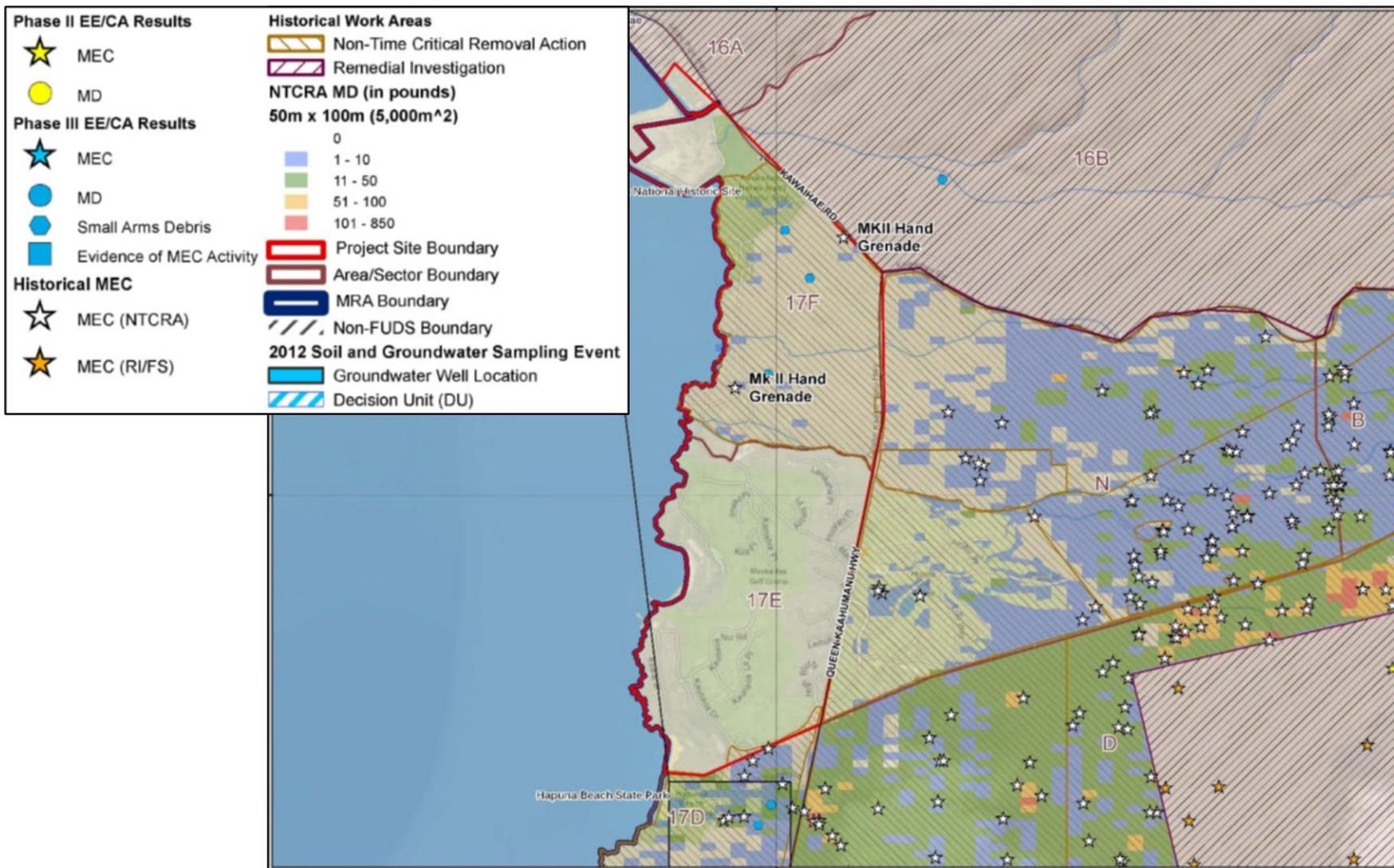


U.S. ARMY



US Army Corps of Engineers®

PREVIOUS INVESTIGATIONS SECTORS 17E-F





U.S. ARMY



US Army Corps
of Engineers®

TYPES OF KNOWN OR POTENTIAL MUNITIONS

Known munitions (Sector 17 A-F)

- Projectile, 105mm, HE, M1
- Projectile, 37mm, HE, M63
- Grenade, hand, MKII
- Projectiles, 155mm and 37mm
- Rockets, 2.36"
- Mortars, unspecified type(s)
- Small arms ammunition

Potential munitions based on adjacent sites

- Projectiles; 155mm, 105mm, 75mm, 37mm, Japanese 25mm
- Grenades; smoke, rifle, Type 99 Japanese
- Mortars; 4.2", 81mm, 60mm, Type 89 Japanese knee
- Rockets, 2.36"

REMEDIAL INVESTIGATION FIELDWORK



U.S. ARMY



US Army Corps
of Engineers®

PRELIMINARY CHARACTERIZATION GEOPHYSICAL SURVEYS (1ST PHASE)

- Digital Mapping data collection (non-intrusive) within areas/terrain accessible to the advanced geophysical sensors.
- Geophysical mapping Data will be collected (surveyed) along transect (paths) with metal detectors.
- Vegetation removal along survey paths (cutting no closer than 3-inches to ground surface).
- Cultural/historical/natural resources will be worked around.



APEX sensor



MPV sensor

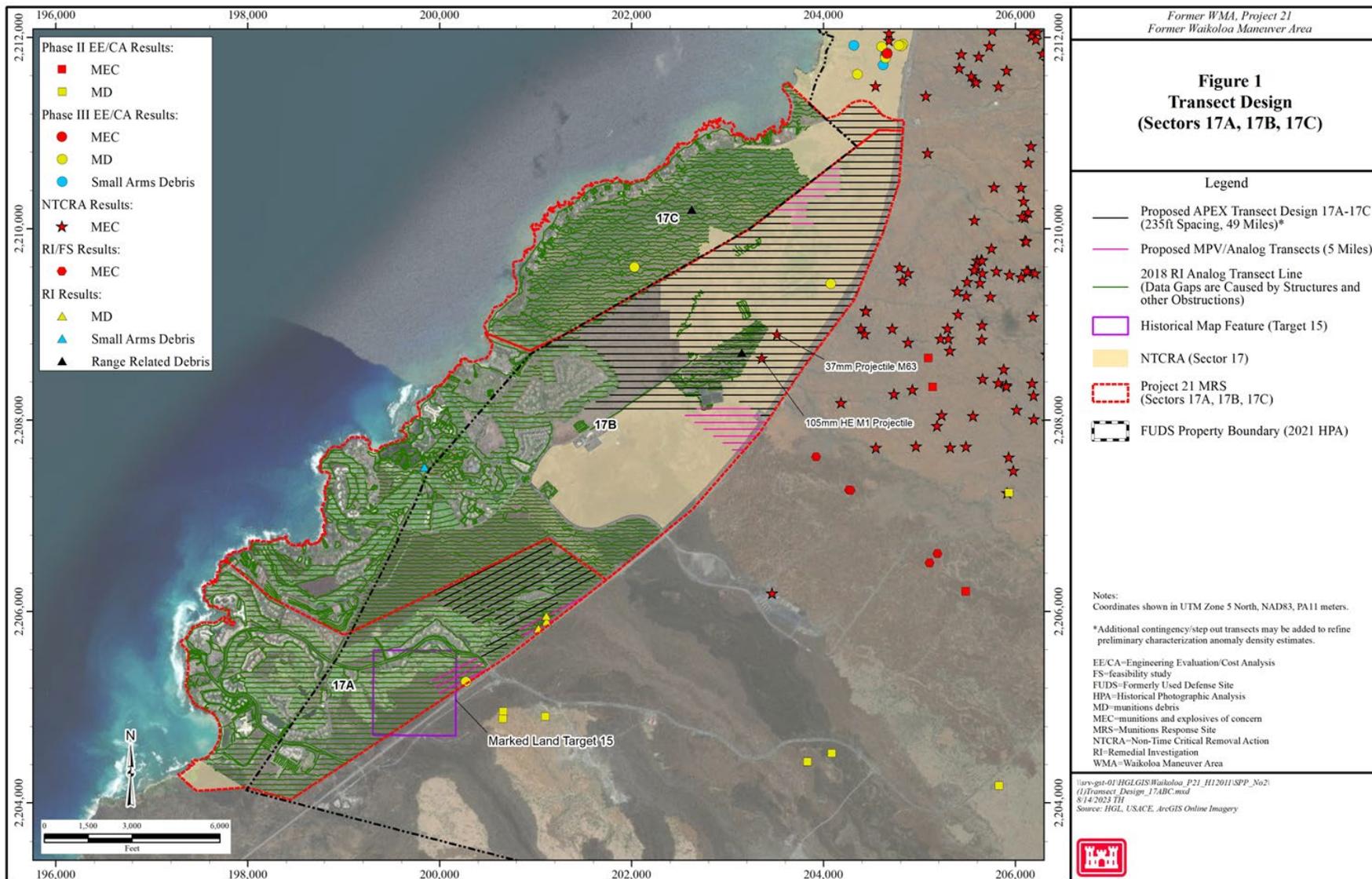


U.S. ARMY



US Army Corps of Engineers®

PRELIMINARY CHARACTERIZATION TRANSECTS – SECTORS 17A-C



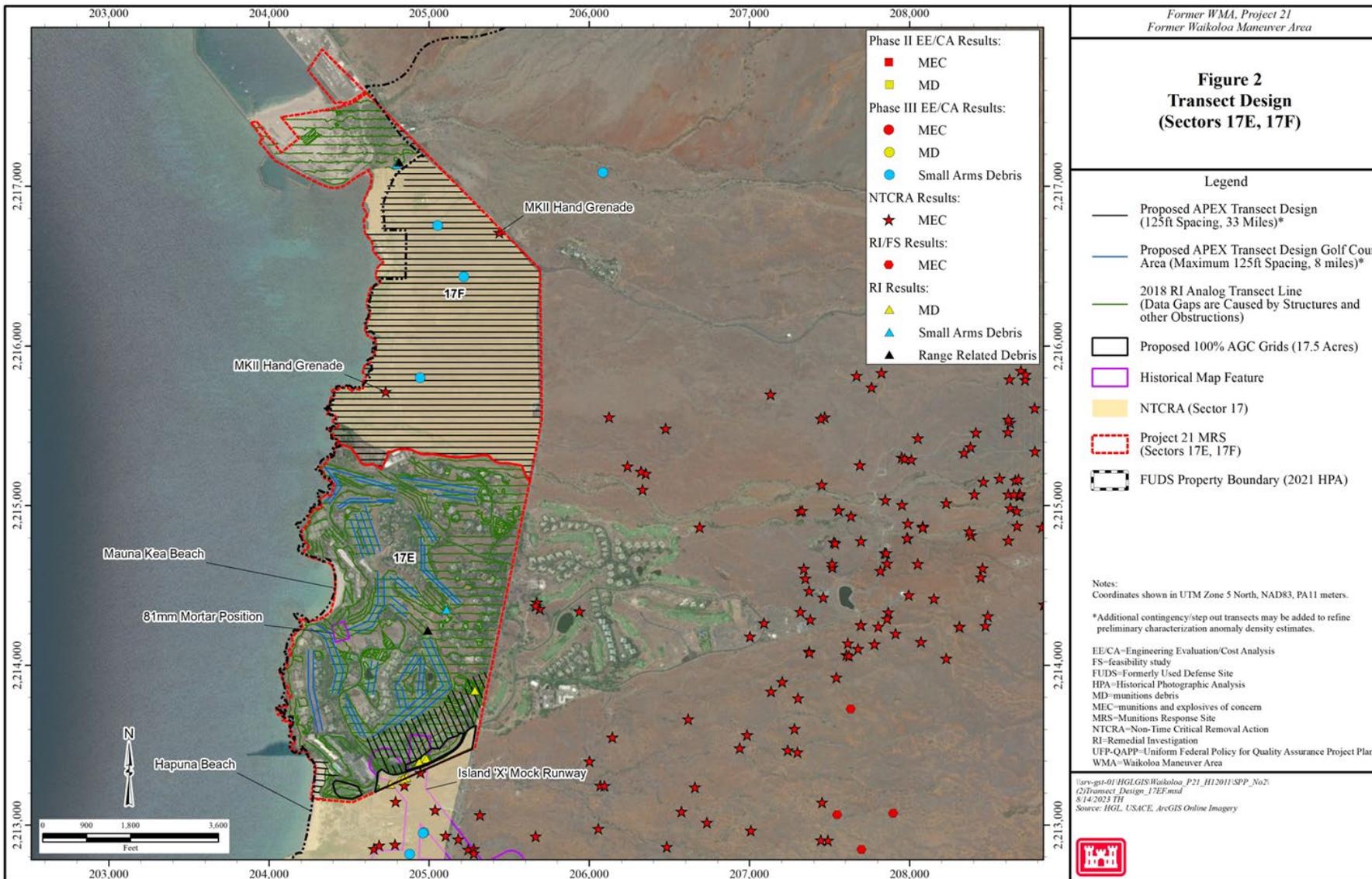


U.S. ARMY



US Army Corps of Engineers®

PRELIMINARY CHARACTERIZATION TRANSECTS – SECTORS 17E-F



DETERMINE HIGH-DENSITY AND LOW-DENSITY AREAS (2ND PHASE)

- Preliminary transect data processing will identify high-density areas and low-density areas. 100% Digital mapping coverage (grids) will be placed within high-density areas to further investigate anomaly densities. Typical grid sizes will be 50-ft x 50-ft.
- Resulting grid survey data will be processed to identify targets to excavate, including possible munitions items.



INTRUSIVE INVESTIGATION (3RD PHASE)

- Subsurface investigations of selected targets will determine if targets are munitions related and to confirm high-density and low-density areas are related to non-munitions use.
- ALL dig locations will be checked by the Field Archeologist prior to excavations made by the field team.
- UXO Technicians will use shovels, trowels, or other hand tools are used to excavate targets.



MUNITION DISPOSAL OPERATIONS

If munitions with high explosive material are discovered, the items will be rendered safe as soon as possible. Demolition operations using donor explosives may be conducted to neutralize a dangerous munition as necessary throughout the course of this project.



Disposal of high explosive munition via controlled detonation



U.S. ARMY



US Army Corps
of Engineers®

COORDINATION OF PROPERTY ACCESS

- Initial Communication
 - Coordinating access to parcel for limited brush cutting where landowners permit.
 - Timelines for access
 - Restrictions
 - Points of contact
- Ongoing Access
 - Different levels of work. (e.g. brush cutting, data collection, and intrusive investigation)
- Intrusive Investigation
 - Limited, temporary evacuations



U.S. ARMY

US Army Corps
of Engineers®

RIGHTS-OF-ENTRY (ROE)

- USACE obtains ROE prior to accessing private property to conduct field work.
- USACE and team will coordinate access prior to entering on property.
- Many ROEs have been obtained for the Sector 17A-F RI project and thanks to all of our stakeholders for the partnership.
- Anyone still want to discuss an ROE, please speak to USACE. Would like to resolve remaining ROE applications by end of November 2023.

PROJECT SCHEDULE



US Army Corps
of Engineers®

U.S. ARMY



U.S. ARMY



US Army Corps
of Engineers®

PROJECT SCHEDULE

Milestones Schedule

- Public Meeting – Oct 2023
- Fieldwork Begins – Oct/Nov 2023
- Fieldwork Complete – May 2024
- Submit Final Remedial Investigation Report – Dec 2024
- Submit Final Feasibility Study – Aug 2025
- Submit Final Proposed Plan – Mar 2026
- Submit Final Decision Document – Jan 2027