



JBCC Military Munitions Response Program (MMRP) Status

JBCC Cleanup Team, 25 March 2026

Mr. Jon Davis

Army MMRP Support Contractor

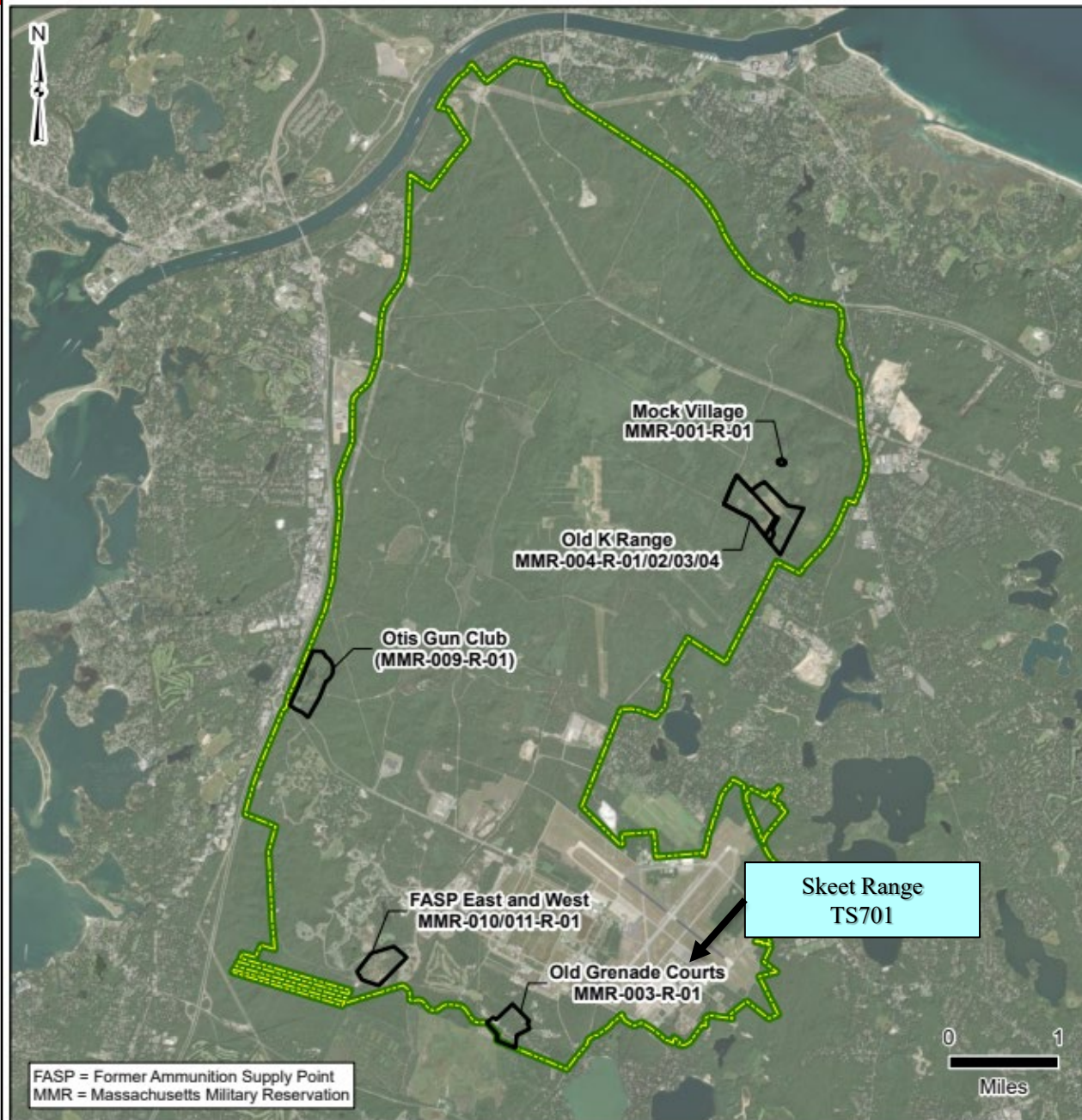


JBCC

Military Munitions Response Program (MMRP) Overview

- ◆ **Discuss Five (5) Open Army MMRP Sites**
 - ◆ **Two Sites without Records of Decision (ROD)**
 - ◆ Proposed Plan Public Comment Periods
 - ◆ **Three Sites with a ROD**
 - ◆ Describe remedies and status

- ◆ **Discuss One (1) Air Force MMRP Sites**
 - ◆ **ROD is complete; Remedial Design underway**



FASP = Former Ammunition Supply Point
MMR = Massachusetts Military Reservation

- Munitions Response Area (MRA)
- Installation Boundary

Data Sources:
ESRI 2024
EA 2018
MassGIS 2023
USACE 2015



JBCC MMRP

Sites without Records of Decision

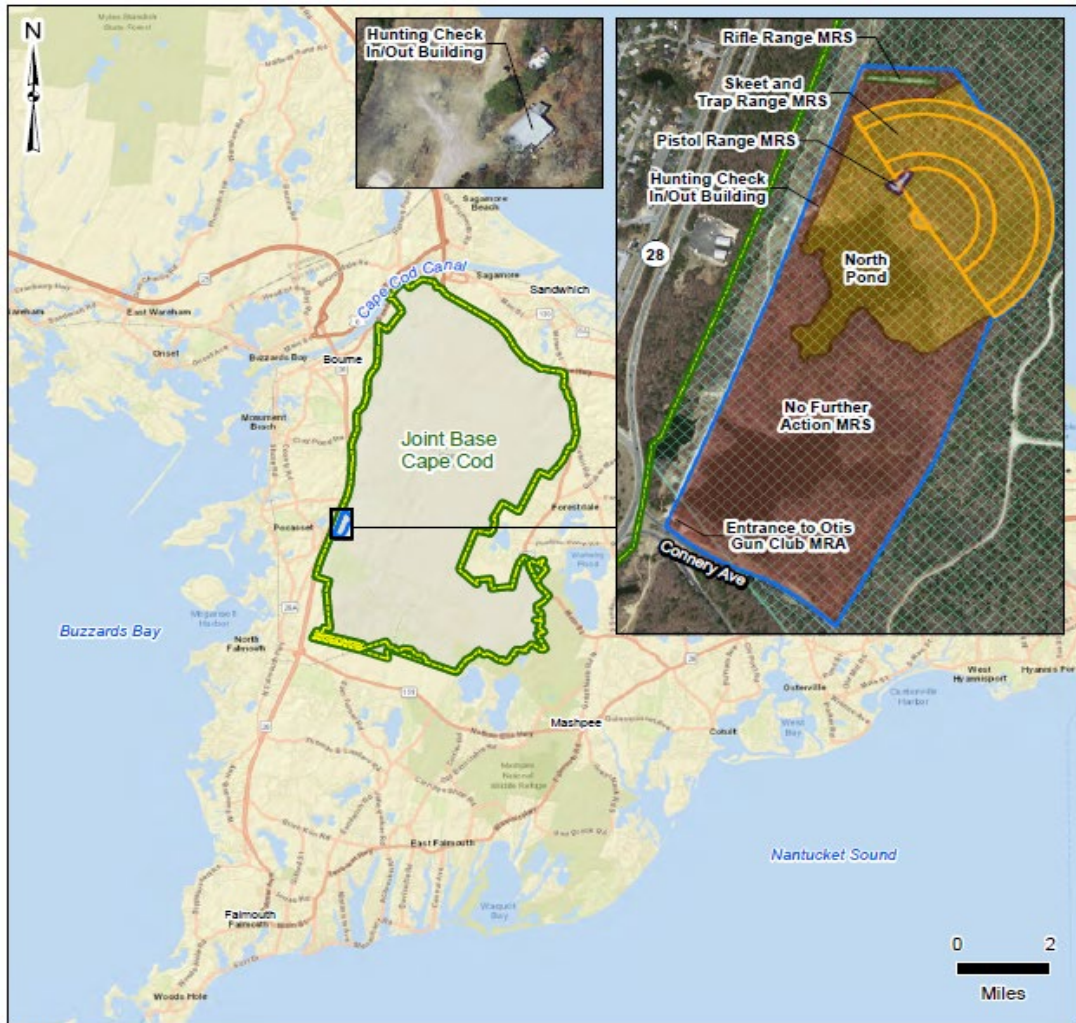
Site Name	CERCLA Status	Next Steps
Otis Gun Club	CSE Ph I: 2014 CSE Ph II: 2018 RI: 2020 Supp RI: 2023 FS: Mar 2026 PP: May 2026 (Draft) ROD: Feb 2027 (Draft)	<ul style="list-style-type: none"> • Complete Proposed Plan– identifies preferred remedy. • Public Comment Period on Proposed Plan – scheduled for October/November 2026 • Complete Record of Decision – scheduled for October 2027 • Implement Remedy after ROD
Former Ammunition Supply Point (FASP) East and West	CSE Ph I: 2014 CSE Ph II: 2015 (West) CSE Ph II: 2024 (East) RI: 2025 FS: Apr 2026 (Draft) PP: Dec 2026 (Draft) ROD: Sep 2027 (Draft)	<ul style="list-style-type: none"> • Complete Feasibility Study (Feb – Sep 2026). <ul style="list-style-type: none"> - Identify and evaluate alternatives to achieve remedial objectives. • Complete Proposed Plan– identifies preferred remedy. • Public Comment Period on Proposed Plan – scheduled for May 2027 • Complete Record of Decision – scheduled for May 2028 • Implement Remedy after ROD

- ◆ CERCLA – Comprehensive Environmental Response, Compensation, and Liability Act
- ◆ CSE – Comprehensive Site Evaluation
- ◆ RI – Remedial Investigation
- ◆ FS – Feasibility Study
- ◆ PP – Proposed Plan
- ◆ ROD – Record of Decision



Otis Gun Club

33-acre Trap/Skeet Range used from 1950s to 2005



Legend

- Installation Boundary
- Otis Gun Club MRA Boundary
- Rifle Range MRS Boundary
- Pistol Range MRS Boundary
- Skeet and Trap Range Fan
- Skeet and Trap Range MRS Boundary
- No Further Action MRS Boundary
- Upper Cape Water Supply Reserve

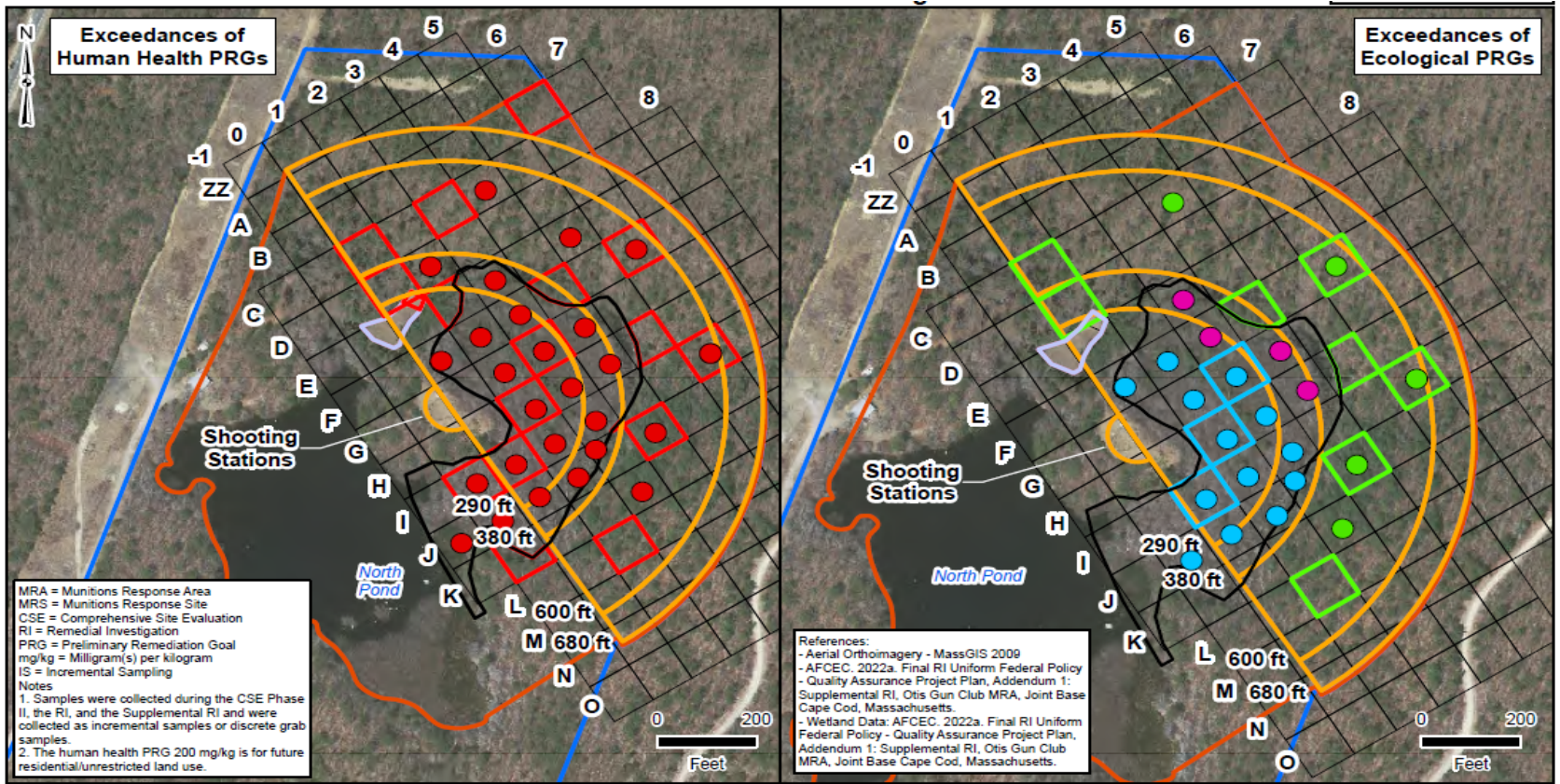
MRA - Munition Response Area
MRS - Munitions Response Site

References
ESRI Street Map, 2016
AFCEC, 2018. Final CSE Phase II Report for Joint Base Cape Cod, Massachusetts. February.



Otis Gun Club

Lead concentrations in soil and wetland sediment exceed human health and ecological remediation goals
Feasibility Study required



Legend

- ▭ Otis Gun Club MRA Boundary
- ▭ Pistol Range MRS Boundary
- ▭ Skeet and Trap Range MRS Boundary
- ▭ Skeet and Trap Range Fan
- ▭ Wetland

RI Lead Investigation

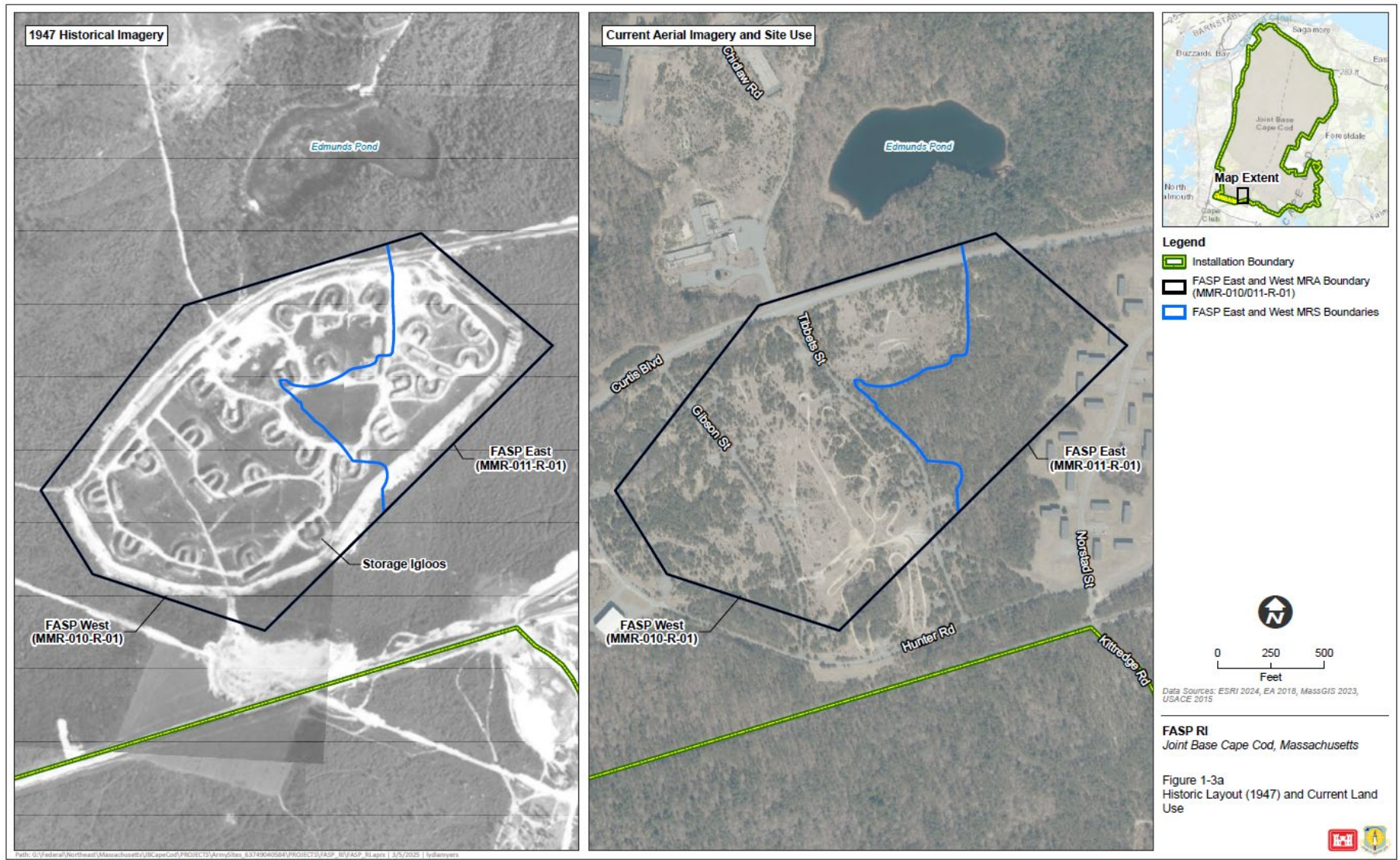
- ▭ IS Lead concentration exceeds human health PRG of 200 mg/kg in soil or wetland sediment
- ▭ IS Lead concentration exceeds ecological PRG of 742 mg/kg in Soil (soil invertebrate)
- ▭ IS Lead concentration exceeds ecological PRG of 326 mg/kg in wetland sediment (wildlife)

- Grab Sample-Lead concentration exceeds human health PRG of 200 mg/kg in soil or wetland sediment
- Grab Sample-Lead concentration exceeds ecological PRG of 742 mg/kg in Soil (soil invertebrate)
- Grab Sample-Lead concentration exceeds ecological PRG of 326 mg/kg in Wetland Sediment (wildlife)
- Grab Sample-Lead concentration exceeds ecological PRG of 5,390 mg/kg in Wetland Sediment (benthic invertebrate)



Former Ammunition Supply Point (FASP)

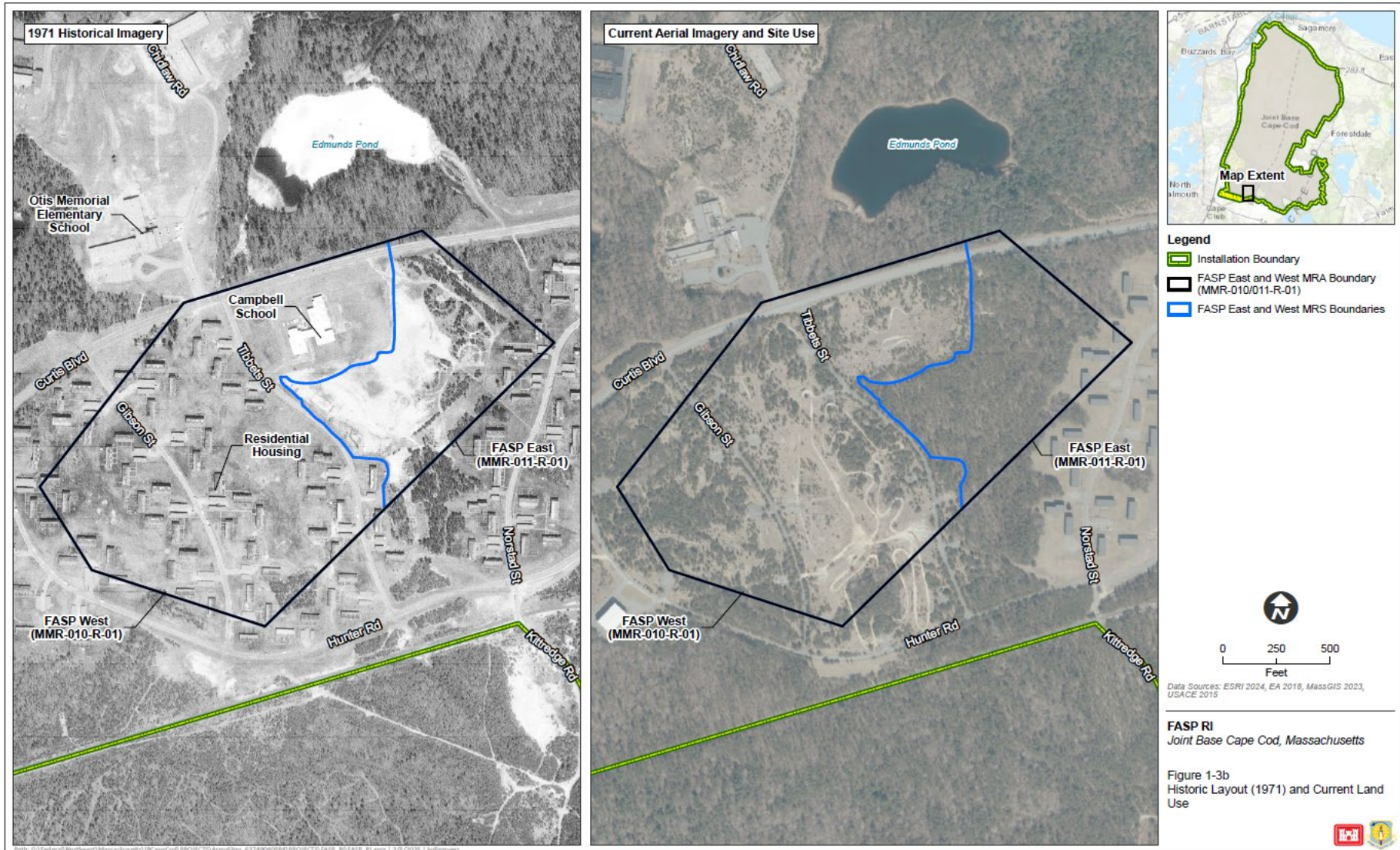
58-acre site used in 1940s/50s for munitions storage



Path: G:\Federal\Northwest Massachusetts\JBC\apeCod\FIC\ICTS\Army\Site_8314906058\FIC\ICTS\FASP_RI\FASP_RI.aprx | 3/5/2025 | 1 pmlmym



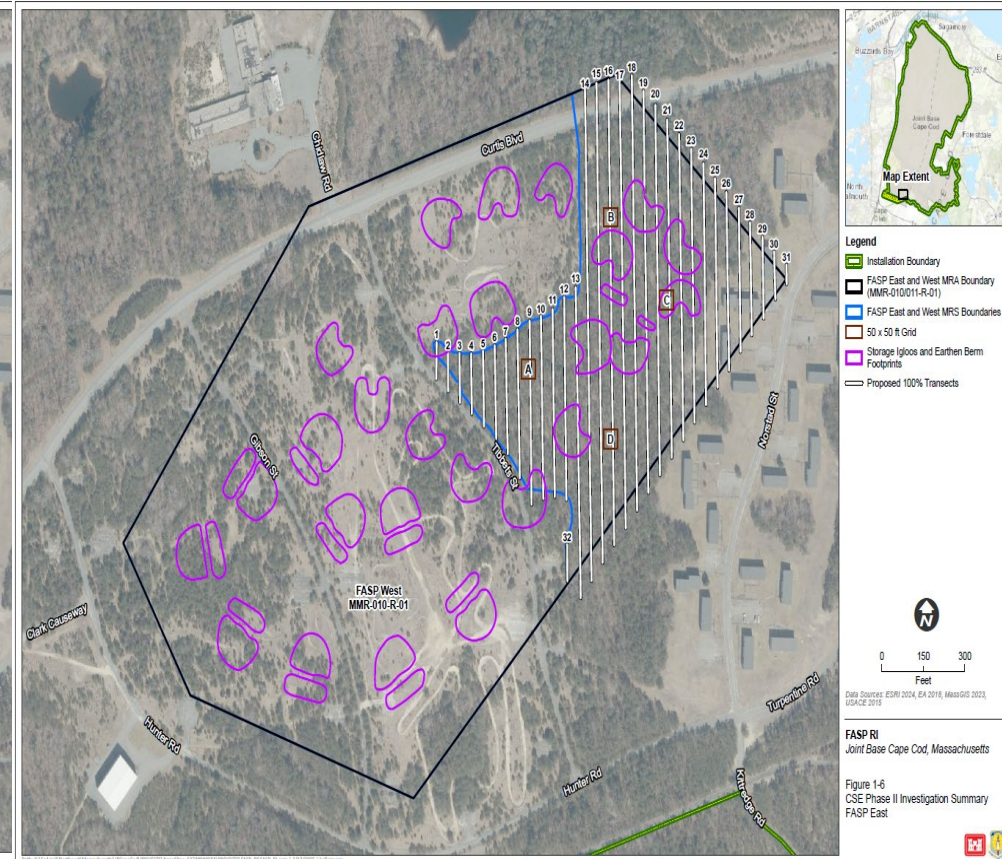
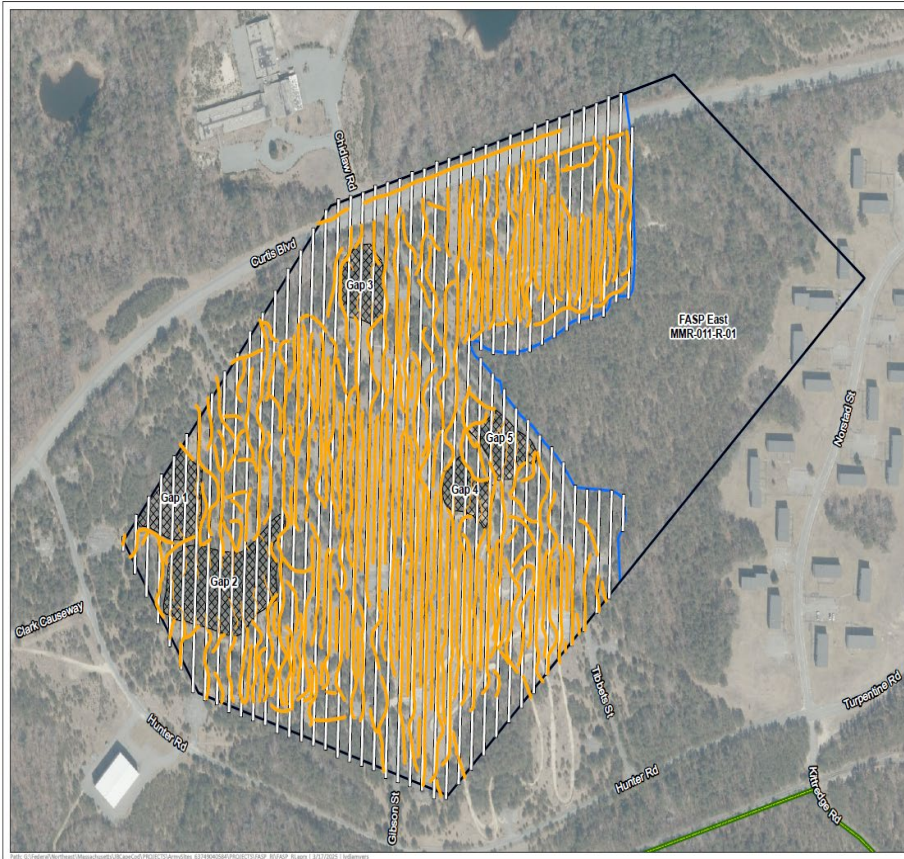
Former Ammunition Supply Point (FASP) Used for housing from 1950s – 1990s





Former Ammunition Supply Point (FASP)

Investigations addressed ~25 % of site
No Munitions and Explosives of Concern (MEC) Found
Potential safety risk remains – Feasibility Study required



Yellow Lines = Digital Geophysical Mapping (DGM) Coverage



JBCC MMRP

Sites with Records of Decision (ROD)

Site Name	CERCLA Status	Remedy Description
Mock Village	CSE Ph I: 2014 CSE Ph II: 2018 RI/FS: 2021 ROD: 2022	<ul style="list-style-type: none"> • LUCs including UXO construction support • Annual MEC sweeps – frequency can be adjusted • UXO warning sign inspections, public education (awareness pamphlets), and monitoring DigSafe® notifications.
Old Grenade Courts (DoD Property)	CSE Ph I: 2014 CSE Ph II: 2018 RI/FS: 2023 ROD: 2025	<ul style="list-style-type: none"> • LUCs including UXO construction support • Annual MEC sweeps (5 acres each) • UXO warning sign inspections, public education (awareness pamphlets), and monitoring DigSafe® notifications.
Old K Range	CSE Ph I: 2014 CSE Ph II: 2018 RI: 2019 FS: 2022 ROD: 2025	<ul style="list-style-type: none"> • LUCs including UXO construction support • Annual MEC sweeps (5 acres each), biannual mowing • UXO warning sign inspections, base boundary fence inspection, public education (awareness pamphlets), and monitoring DigSafe® notifications • Monitoring well installation and monitoring (annual for first three years, then assess).
Skeet Range	CSE Ph I: 2014 CSE Ph II: 2018 RI: 2022 FS: 2023 ROD: 2024	<ul style="list-style-type: none"> • Prepare work plan (underway). Planning to conduct PFAS sampling to inform work plan. • Excavate soil with lead concentrations exceeding 200 milligrams/kilogram, dispose off-site. Estimated volume is 2,600 cubic yards (1.6 acres at a depth of 12 inches). • Restore site. • Remedial Action Closure Report.

CERCLA – Comprehensive Environmental Response, Compensation, and Liability Act

CSE – Comprehensive Site Evaluation

FS – Feasibility Study

LUC – Land Use Control

MEC – Munitions and Explosives of Concern

RI – Remedial Investigation

ROD – Record of Decision

UXO – Unexploded Ordnance



Mock Village

1.5-acre site used in the 1940s for urban warfare training



Locator Map

Legend

- Installation Boundary
- Potential MRA Boundary

Scale: 0 100 200 400 Feet

Logos: US Army Corps of Engineers, FPM, URS

MRA Features
Mock Village
(MMR-001-R-01) - 1951
JBCC, Massachusetts

Drawn By: JZ	Date: 1/28/2014	Figure 5-15
Checked By: JH	Project No: 16170516	



Mock Village

Annual Sweeps conducted (2022-2025)

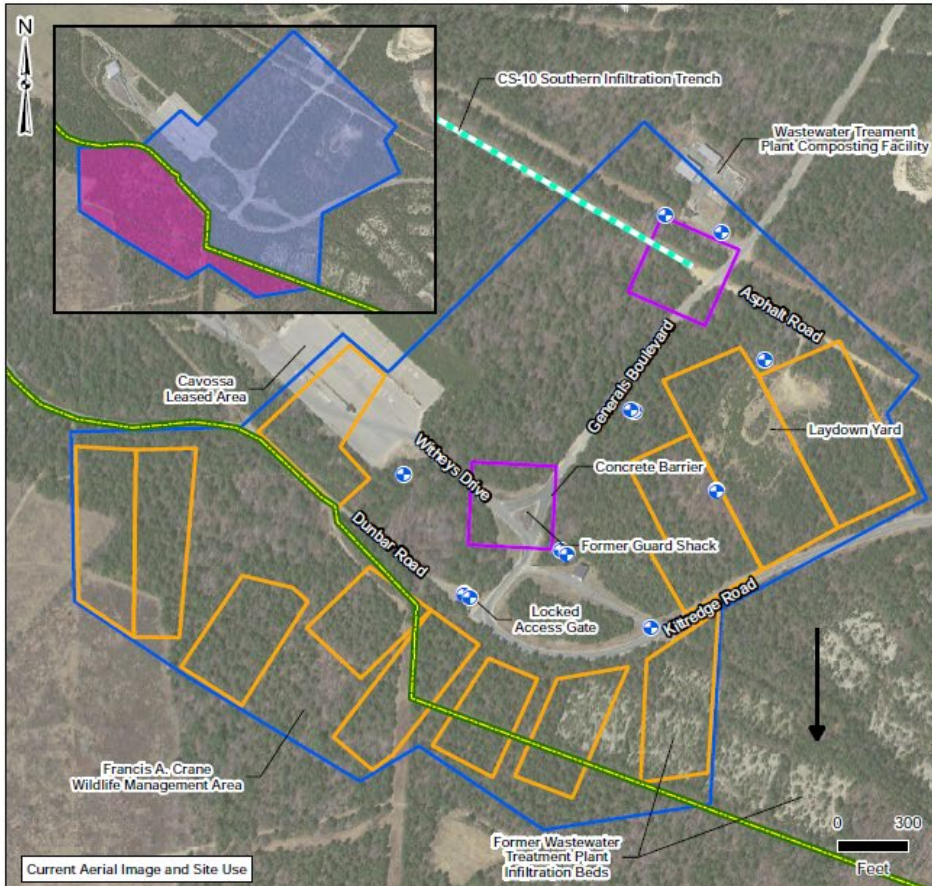
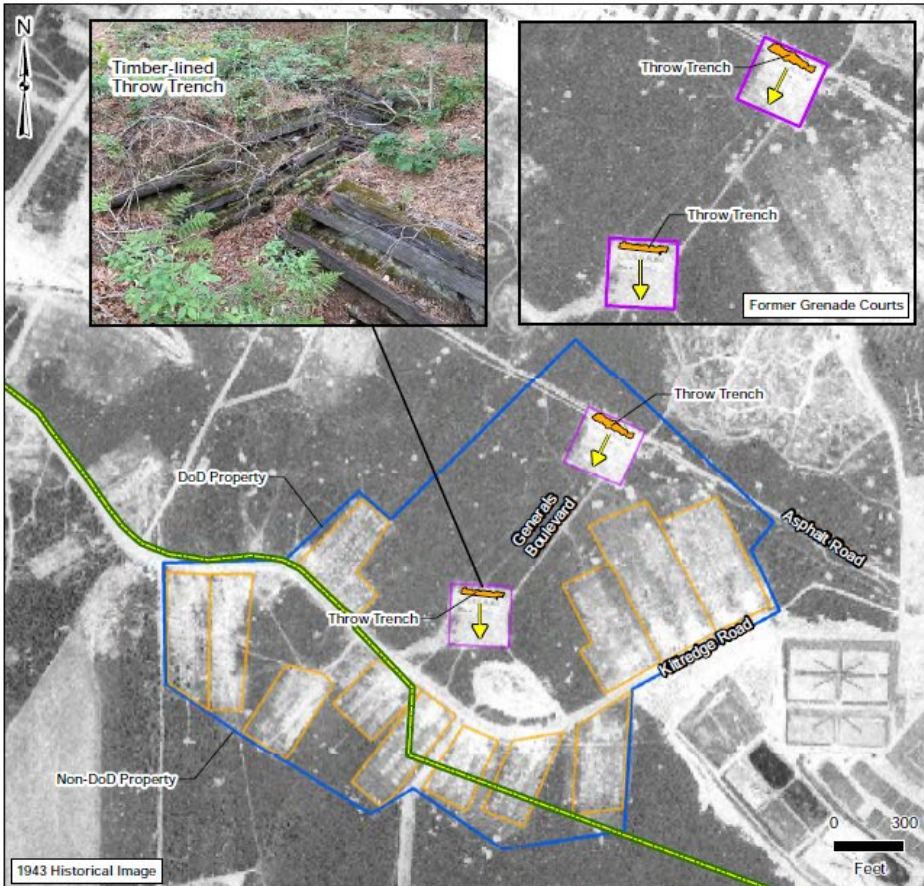
No Munitions and Explosives of Concern (MEC) Found





Old Grenade Courts

72-acre site used in the 1940s to early 1950s for grenade training
Non-DoD Portion (20.4 acres) closed in 2024



- Legend**
- Installation Boundary
 - Old Grenade Courts MRA Boundary
 - Former Practice Grenade Courts
 - Former Live Grenade Courts
 - Throw Trench
 - Throw Direction

Notes:
 1. MRA - Munitions Response Area
 2. MRS - Munitions Response Site
 3. CSE - Comprehensive Site Evaluation
 4. DoD - Department of Defense
 5. MOA - Memorandum of Agreement

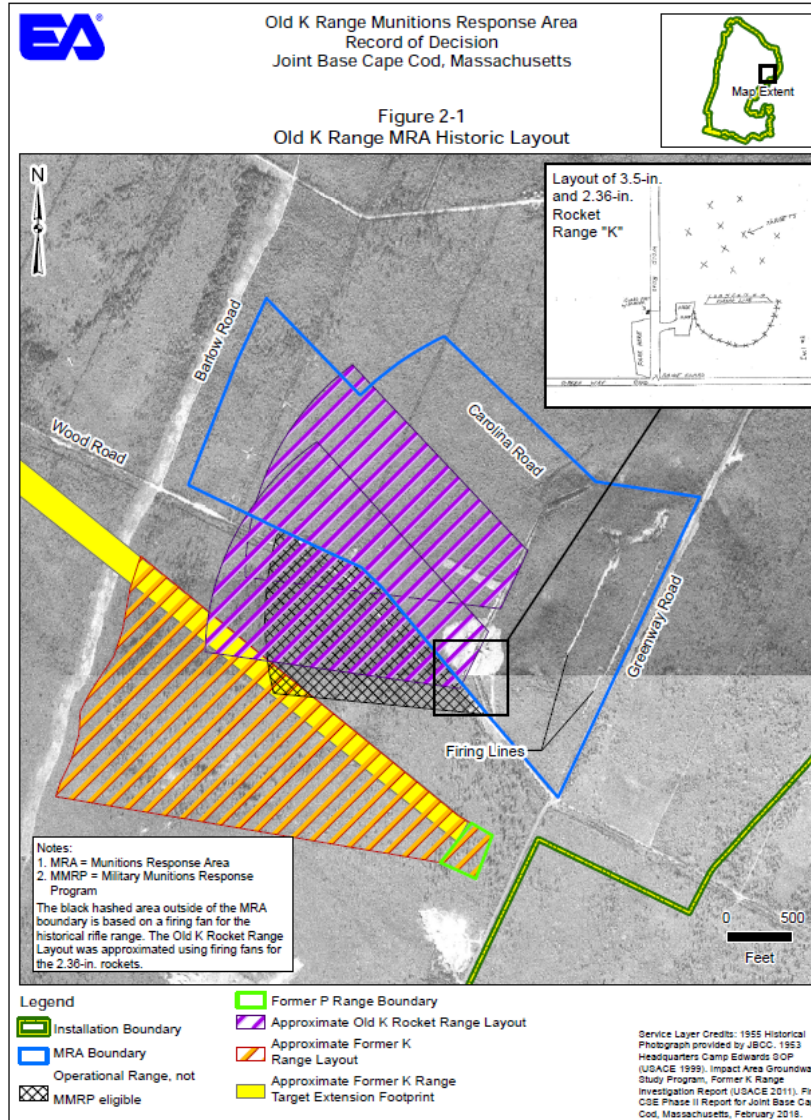
Service Layer Credits: Aerial Orthoimagery - MassGIS 2009
 AFCEC, 2015A. Final CSE Phase II for Joint Base Cape Cod, Massachusetts, February 2018.
 Parcel data from Office of Geographic Information (MassGIS), Commonwealth of Massachusetts, MassIT

- Legend**
- Installation Boundary
 - Old Grenade Courts MRA Boundary
 - Former Practice Grenade Courts
 - Former Live Grenade Courts
 - DoD Property MRS
 - Non-DoD Property MRS
 - ⊕ Monitoring Well
 - CS-10 Southern Infiltration Trench
 - Groundwater Flow Direction



Old K Range

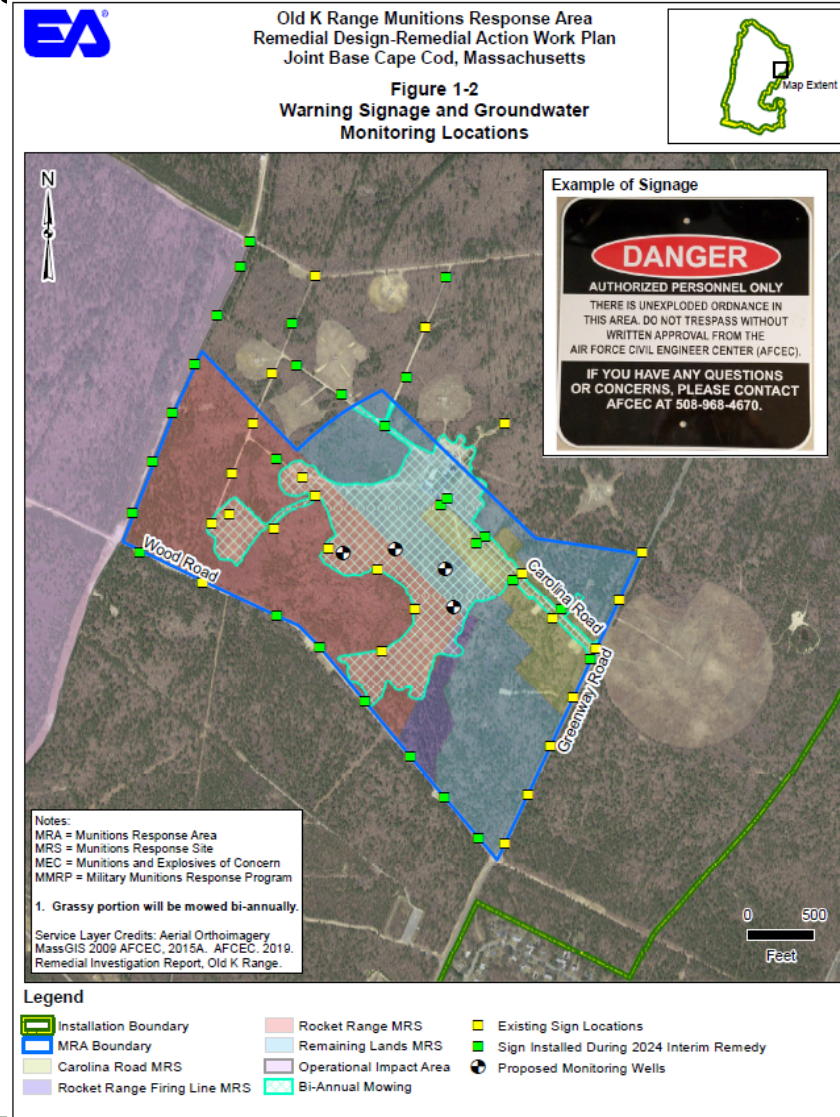
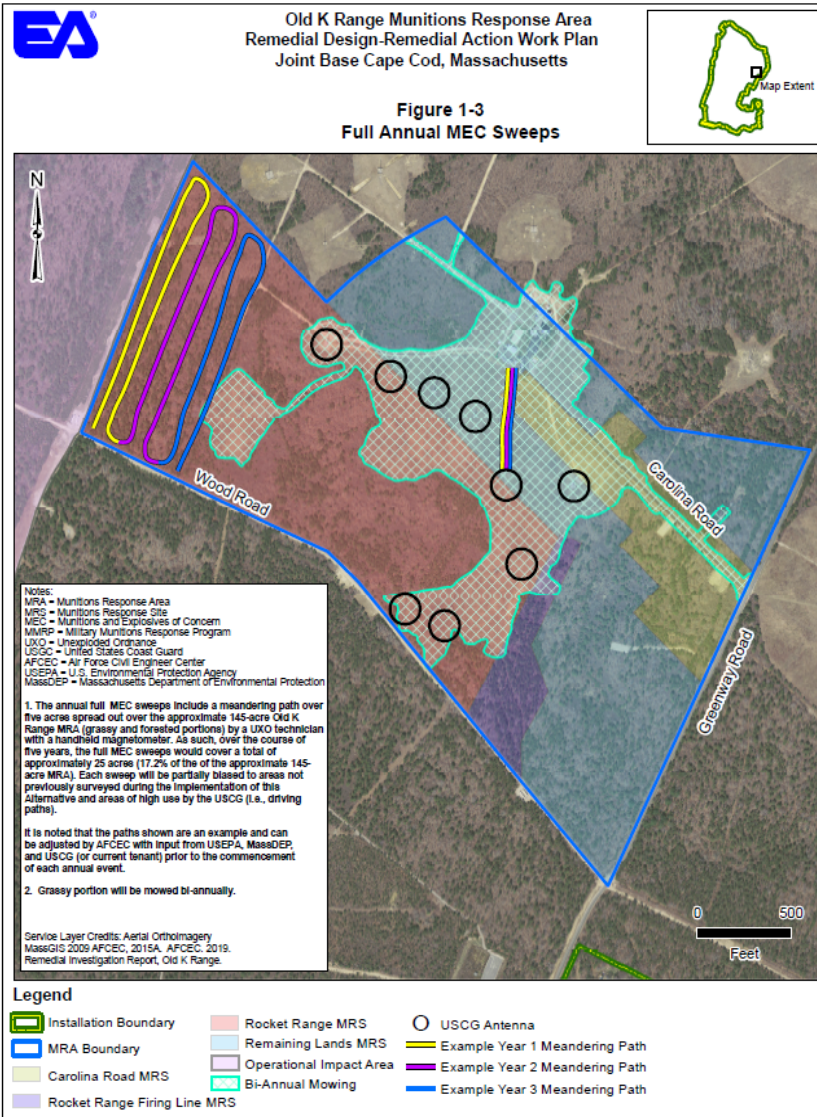
145-acre site used in the 1940s and 1950s as a rifle and rocket range





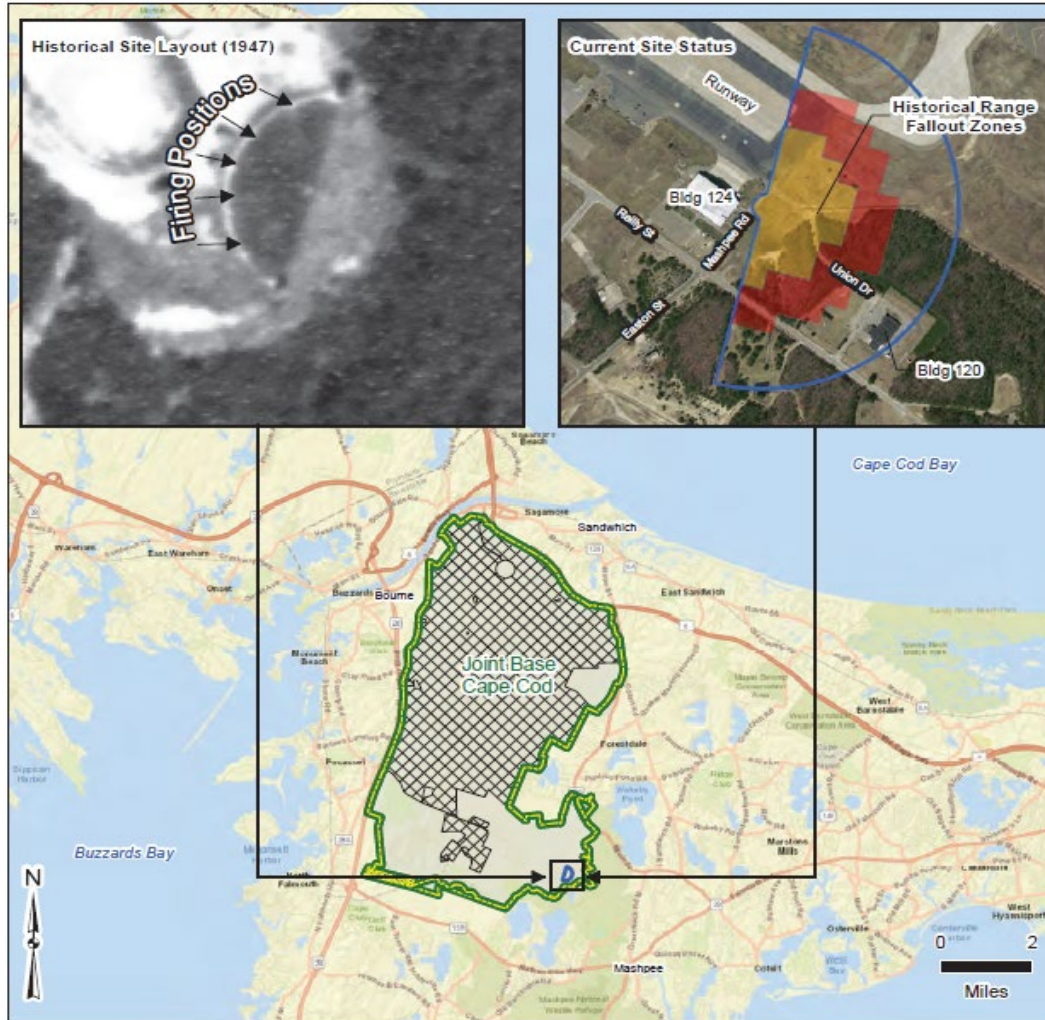
Old K Range

First post-ROD MEC Sweep and groundwater monitoring in 2026



Skeet Range

29-acre site used in late 1940s



Legend

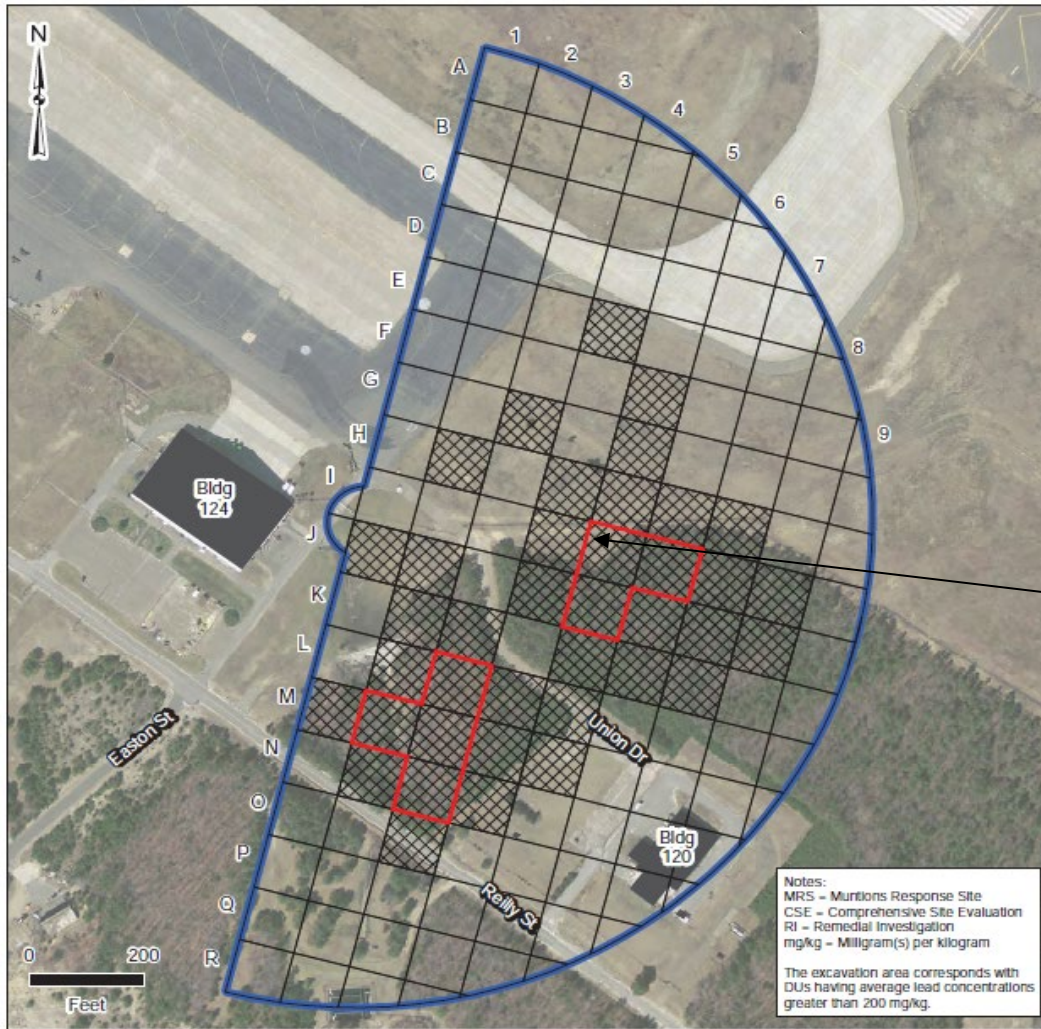
- Installation Boundary
- Skeet Range MRS Boundary
- Projected PAH fallout zone
- Projected Lead fallout zone
- Camp Edwards

Notes:
MRS - Munition Response Site
PAH - Polycyclic aromatic hydrocarbon

Service Layer Credits: ESRI Street Map, 2016,
ESRI Aerial 2015
Final OSE Phase II Report for Joint Base Cape Cod,
Massachusetts, February 2016.



Skeet Range Planned Excavation Area Awaiting Funding



Known PFAS in soil from adjacent Site 118 investigation. Planning additional PFAS sampling to understand PFAS impacts across the Skeet Range excavation area.

Legend

- Installation Boundary
- Skeet Range MRS Boundary

CSE Phase II and RI

- Sampled Decision Unit

RI Conclusions

- Area of Excavation (Average Lead Concentrations Exceeds 200 mg/kg)

References:
 Aerial Orthoimagery MassGIS 2009
 AFCEC. 2023. Final Feasibility Study at the Skeet Range Munitions Response Area Joint Base Cape Cod, Massachusetts, April 2023.



Questions?