

Appendix A
Figures

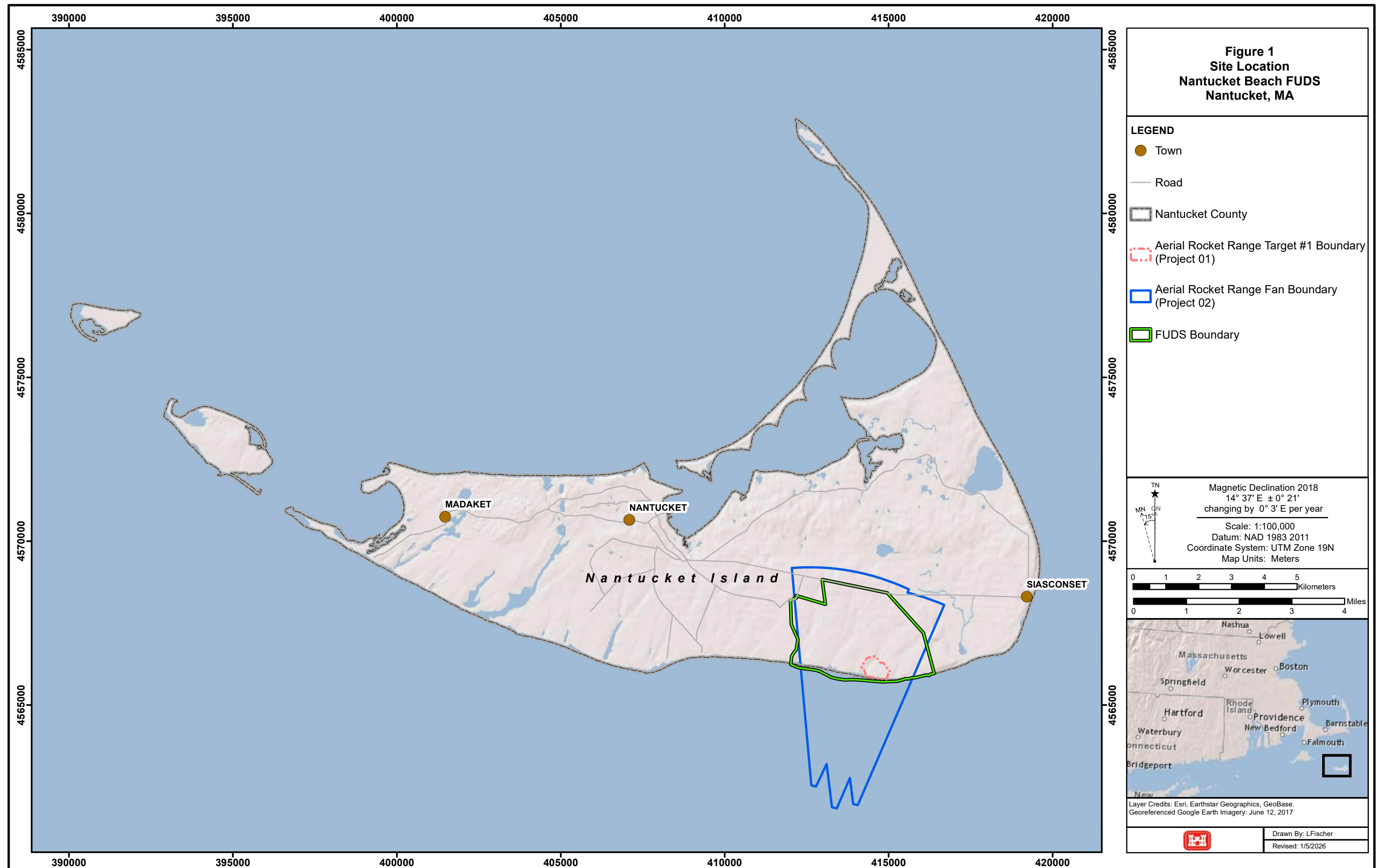
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List of figures included in this appendix:

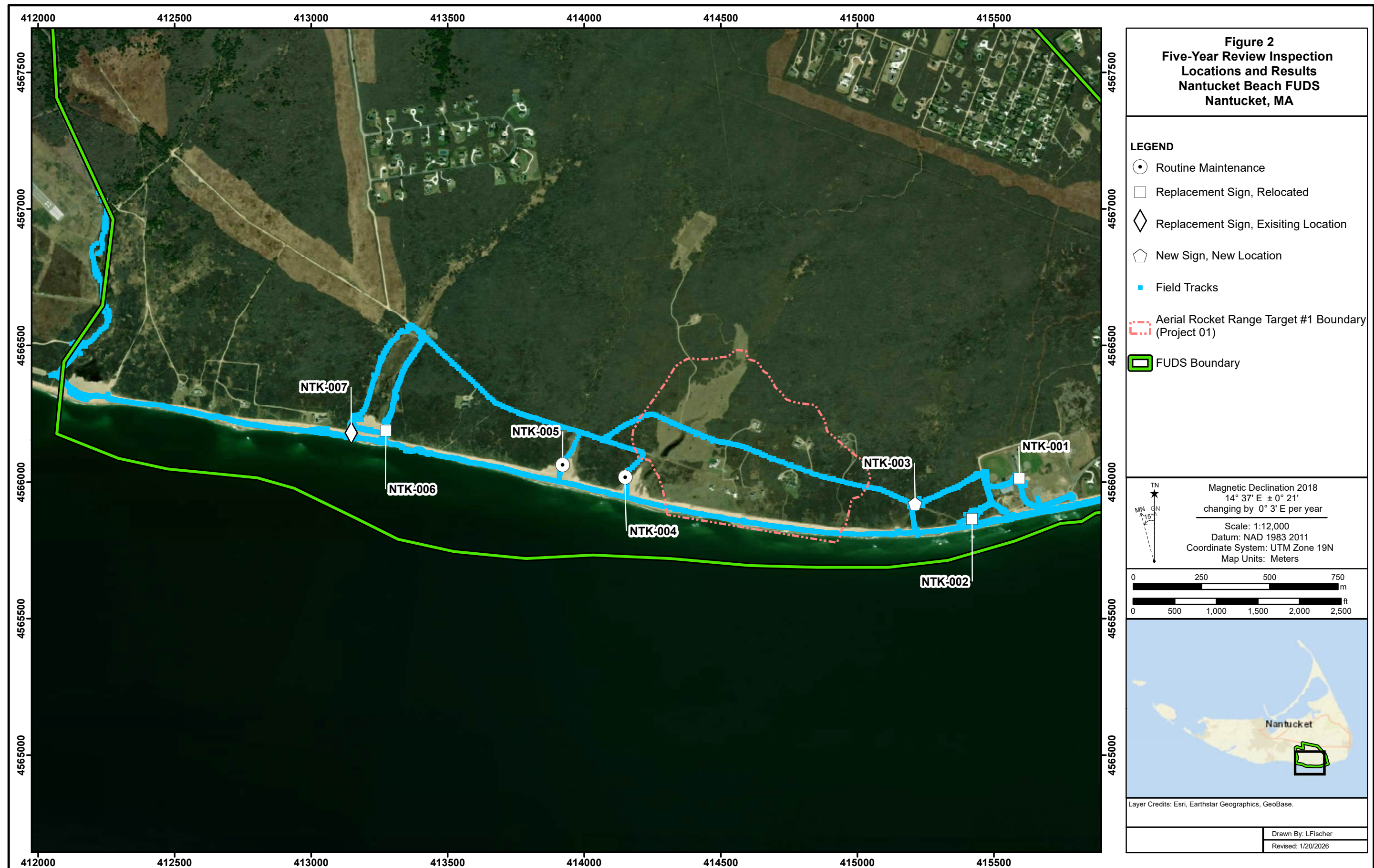
Figures:

- Figure 1: Site Location; and
- Figure 2: Five-Year Review Inspection Locations and Results.

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Appendix B
Public Notice

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Big, bad, endangered wolffish caught off Nantucket

By Christy Bassett Baker
Contributing Writer

The water temperature in the harbor has dropped to 61 degrees, still warm enough for a quick dip.

Leaves have fallen along the shores and fall fishing has shifted sights. Quiet has quickly fallen upon the waterfront, albeit for early-morning maritime skiffs scouring the harbor at sunrise for false albacore or late afternoon sunset sails for peace of mind.

The mooring field has nearly emptied and the eastern face of the Boat Basin is completely clear. The harbor may welcome a sole transient day-tripper or two during the weekend ahead, but for the most part tourist season on the water has ended.

During the upcoming weeks, moorings and slips will begin to fill in with commercial scallop boats preparing for the commercial bay scallop season that opens Nov. 1.

The Natural Resources Department completed nearly 60 dives during the weeks preceding the storm to survey the scallop seed they had dispersed throughout the harbors.

Nantucket Harbor looks promising for recreational push-rakers and divers on the hunt for adult scallops, but the department did not feel as confident about Madaket Harbor.

Shellfishing aside, fall brings in other fisheries, some sought after and others lost along their way.

Cod and Atlantic haddock fishing become popular this time of year, as they prefer the cooler waters and are a delicious recreational snag.

Like codfish and haddock, Atlantic pollack are bottom-feeders and also a great catch this time of year, as they tend to give a bit more of a spirited fight than their fellow ground-fish.

An uncommon catch is the Atlantic wolffish, also known as a seawolf or Atlantic catfish.

The wolffish is sadly being



Courtesy of Christy Bassett Baker

Captain John Galvin, on the fishing vessel *Diablo*, holding a wolffish he caught last week off Nantucket.

Waterfront News

depleted in the Atlantic due to overfishing and by-catch. Unique in appearance and talents, the wolffish produces natural antifreeze internally to keep its blood moving fluidly in cold habitats.

They are considered an important indicator of the health of bottom-dwelling populations such as the Atlantic codfish and are important in controlling invasive creatures like the locally infamous green crab.

Last week the fishing vessel *Diablo* caught a monster of a wolffish 30 miles east of Nantucket, a rainbow catch of the day while out bottom-fishing.

After a brief photo opportunity, the wolffish was quickly released, as the species is currently protected federally and in New England state waters.

Also unusual but not uncommon to see this time of year is the mola mola, otherwise known as an ocean sunfish.

Last week one debuted by Great Point, most likely surfacing to “thermally charge” itself in sunlight, as the local water temperatures are dropping below their preferred range.

It’s common to see a lost one sail into the harbor this time of year after taking a wrong turn while drifting with ocean currents along the Gulf Stream.

As fall settles around us and we reflect on the season gone by, don’t forget to enjoy some time on the waterfront, appreciating all that it still has to offer.

As the late screenwriter Robert Altman said, “Put a line in the water and you don’t know what’s on the other end. Your imagination is under there.”

Reach Christy at christybassettbaker@gmail.com

Restaurant Week continues

The 2024 Nantucket Restaurant Week is underway and runs through Sunday, Oct. 6, with a special food-truck event Monday, Oct. 7.

The annual culinary experience celebrates Nantucket’s restaurant community, with more than 15 Chamber of Commerce member establishments including Corner Table, Company of the Cauldron, Faregrounds, Bar Yoshi, The Pearl, Yummy, Misogi Noodle Bar, The Galley, Ventuno and The Tavern signed up to participate with more to come.

Restaurants across the island will offer specials such as a free dessert with purchase, discounts and curated menus for this fall week. Reservations may be required, depending on the location.

Restaurant Week will wrap up Monday, Oct. 7 with a new event, Food Truck Funday Monday at Faregrounds, featuring Chamber member food trucks and live entertainment by Billy Voss in the rear parking lot of Faregrounds from 4-8 p.m.

“This is a family-friendly

event, and everybody is welcome. Since so many folks in the restaurant business are off on Mondays, this event will be a great way for everyone in the business to get together and celebrate the end of the season,” Chamber restaurant committee leader Adam Dread said.

For additional details, including a list of participating restaurants and their offerings, visit the Nantucket Island Chamber of Commerce website at nantucketchamber.org/restaurant-week/

Nantucket Bridge Club Sept. 27

By Wayne Davies

First: Marsha Jamil and Becky Kilmer

Second: Gordon and Dave Brown

Third: Monica and Peter Campanella

Win With Wayne: Inverted minors is a worthwhile convention to learn.

Most club players know that it usually is preferable to be in 3NT rather than a minor suit game – but how to find that NT game? Either “inverted minors,” where a response of 2m indicates a strong hand and 3m a weak one.

In the sequence here, 1D (P) 2D, West will now bid 2S – showing stoppers in spades.

With all other suits covered, you can see how easy it is for East to now bid 3NT straight away.

P (1D) P (2D) (P) 2S (P) 3NT All Pass

The Nantucket Bridge Club

		North	
		♠ QJ752 ♥ KJ ♦ 83 ♣ J652	
West			East
♠ AK6 ♥ Q732 ♦ A1097 ♣ 74			♠ 984 ♥ A9 ♦ KQJ6 ♣ AQ103
		South	
		♠ 103 ♥ 108654 ♦ 542 ♣ K98	

is open to all who would like to play regular duplicate bridge in a relaxed atmosphere. We play Fridays online from

10 a.m.-noon.

For further information regarding playing online, e-mail wayne.davies@gmail.com.

Get all the latest Island News 24/7 at
www.ack.net

The Inquirer and Mirror
ESSENTIAL NANTUCKET SINCE 1821

GALLERY

H

Sculpture Ceramics

Featuring the work of
mid-century master and
renowned Nantucket artist
Bud Hambleton.

website: galleryh.net
karenhambleton@galleryh.net
phone: 508-207-0282



TOWN OF NANTUCKET MOORING REMOVAL DEADLINE NOTICE

In preparation for Commercial Scallop season, all moorings located in designated scallop fishing areas must be removed by October 15, 2024.

Designated areas include but are not limited to:

all of Monomoy, Francis Street, Shimmo, Fulling Mill, the Wauwinet and Warren’s Landing.

Any mooring left after October 15 in a designated scalloping area may be subject to removal.

All dinghies and kayaks on Town racks must be removed by October 15.

Any dinghy or kayak left after October 15 may be subject to removal, including those with 2024 Town dinghy permits.

*We thank you
for a great 2024 season.*

NANTUCKET TOWN PIER SLIP LOTTERY 2025!

This year’s lottery will be for Recreational B (1-year lease), 35 slips;

Commercial B (1-year lease), 5 slips; Handicap (1-year lease), 2 slips.

You can apply in person at 34 Washington Street

or call the Harbor Master Office at 508-228-7261.

Each application is \$25.00, one application per Massachusetts vessel registration;

Applicants must be 18 years or older to enter. Power vessels only, up to 30 feet in length

overall. Slips will be drawn on October 25th at 12pm. Applications will be accepted until

October 24th at 12pm. Details for viewing the lottery will be provided at a later date.

Please call the Harbor Master’s office at 508- 228-7261 with any questions.

PUBLIC NOTICE FIVE YEAR REVIEW NOTIFICATION

The United States Army Corps of Engineers (USACE) is conducting the second Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Five-Year Review (FYR) to evaluate the effectiveness of the land use controls in place at the Aerial Rocket Range Target #1 Munitions Response Site (MRS) within the former Nantucket Ordnance Site Formerly Used Defense Site (FUDS), on Nantucket Island.

Past military munitions training activities conducted at the MRS resulted in munitions contamination within the MRS boundaries. Military munitions were encountered and removed during the Remedial Investigation and Remedial Action. Munitions and explosives of concern (MEC) were found after the Remedial Action was complete indicating munitions are still present in the MRS.

The purpose of this FYR is to determine if the implemented remedy continues to be protective of human health and the environment. As identified by the USACE in the Decision Document, the selected remedy includes implementing Land Use Controls including public education and training to reduce munition encounters by workers, recreational users, and visitors.

Additional information and reports can be found at the USACE website address:

<https://www.nae.usace.army.mil/Missions/Projects-Topics/Nantucket-Beach/>

The community can contribute during the FYR process by providing input on remedy protectiveness by contacting the USACE Project Manager, Ms. Marie Esten at:

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

696 Virginia Rd

Concord, MA 01742

Marie.E.Esten@usace.army.mil

978-318-8965

The scheduled completion date of the FYR is September 2026. Upon completion, the community will receive notification from USACE. Notification will include the protectiveness statement, a brief summary of the data and information that provided the basis for determining protectiveness, recommendations and follow-up activities, locations of the FYR report, contact information where community members can obtain more information with respect to the FYR report, and the date of the next FYR.

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Appendix C
Interviews and Site Inspection Checklist

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FIVE-YEAR REVIEW QUESTIONNAIRE

Site Name:

Nantucket Beach Aerial Rocket Range Target #1 Munitions
Response Site

FUDS Property No.:

D01MA045601

Individual Contacted:

**Personally Identifiable Information (PII), if provided, will not be released to the public.*

***Name:**

[REDACTED]

Date:

3/07/2025

***Telephone No.:**

Not provided

***Street Address:**

[REDACTED]

***Email address:**

[REDACTED]

***City, State, Zip:**

Mendham NJ 07945

Questionnaire Responses:

1. A management program consisting of informational signage and explosives safety awareness training (3Rs – Recognize, Retreat, Report) is in effect at the site. Have you heard about this program? If so, what is your overall impression of its effectiveness?

Not heard about it!

2. Are you aware of the annual in-person 3Rs training or the availability of an on-line training? If so, have you attended or accessed either?

Not heard about it

3. Do you have any concerns, or are you aware of any community concerns regarding the potential residual munitions that may remain on your property or at the overall site? If so, please provide details.

None whatsoever.

4. Do you feel well informed about the appropriate measures to take (i.e., 3Rs) if you think you have encountered a potential munitions item?

Yes. I know what to do.

5. In the last five years, have you ever conducted ground-disturbing activities on your property (e.g., excavation for utilities/foundations, fence post installation, etc.)? If so, please describe the activities conducted, if any munitions were encountered, and steps that were taken if munitions were encountered.

We built a garage next to the house. There is no basement and the excavation were no more than 2-3ft. We also expanded the septic system with excavations of maybe 8 feet. No munitions were encountered.

- 6. Have you talked with or received any information from U.S. Army Corps of Engineers, state, or environmental officials about the ongoing management program at the site? If you have, was the information useful or were they responsive to your concerns or questions?**

Basically, it is a summer house used by any number of family members. I had no interaction with the Army Corps but have not heard of any from vacationing family members. I have seen some signage about the need for caution when digging. We do not have any of the cliff area on our property. So we would probably not have observed any munitions poking out of the cliff face.

- 7. Do you have any comments, suggestions, or recommendations regarding how the U.S. Army Corps of Engineers can better communicate with you about the management program?**

Signage is probably best as all short term visitors would have exposure to the information.

- 8. Please provide any additional input/thoughts you feel will help us to evaluate the effectiveness of the management program in keeping the public safe from explosive hazards associated with residual munitions that may be at the site.**

Thank you for what you have done. I was present during some of the project and felt that you were thorough and safe.

FIVE-YEAR REVIEW QUESTIONNAIRE

Site Name:

Nantucket Beach Aerial Rocket Range Target #1 Munitions
Response Site

FUDS Property No.:

D01MA045601

Individual Contacted:

Name:

Warren Smith

Date:

3/28/2025

Organization:

Nantucket Memorial Airport

Title:

Airport Manager

Email address:

wsmith@nantucketairport.co

Telephone No.:

774-236-0995

Questionnaire Responses:

1. **A Formerly Used Defense Site (FUDS) Long Term Management (LTM) plan consisting of informational signage and training on the 3Rs – Recognize, Retreat, Report – is in effect at the site. Have you heard about this LTM program? If so, what is your overall impression of its effectiveness?**

I started working for the airport on March 3rd, 2025. I am new and would like to be updated. I have not heard of this program.

2. **Are you aware of the annual in-person 3Rs training or the availability of an on-line training? If so, have you attended or accessed either?**

No

3. **Are you aware of any community concerns regarding the potential residual munitions/explosive hazards that may remain at the site? If so, please provide details.**

No

4. **Do you feel well informed about the requirements for implementing the LTM program?**

No

5. Have you or your agency/organization ever implemented measures in accordance with the LTM program to ensure the safety of members of the public (e.g., distributed 3Rs literature, conducted safety briefings/awareness training, etc.)? If so, please describe the activities conducted.

N/A

6. In the last five years, has your agency/organization ever conducted ground-disturbing activities on your property (e.g., excavation for utilities/foundations, earthmoving construction, dredging, dune renourishment, etc.)? If so, please describe the activities conducted, if any munitions were encountered, and steps that were taken if munitions were encountered.

N/A

7. Have you talked with any U.S. Army Corps of Engineers, state, or environmental officials about the ongoing FUDS LTM program, or any of its requirements, at the site? If you have, were they responsive to your concerns or questions?

N/A

8. Do you have any comments, suggestions, or recommendations regarding the management or implementation of the LTM program?

I would like to be informed more on this program. Very intriguing and useful.

9. Please provide any additional input/thoughts you feel will help us to evaluate the effectiveness of the LTM program in keeping the public safe from explosive hazards associated with residual munitions that may be at the site.

N/A

FIVE-YEAR REVIEW QUESTIONNAIRE

Site Name:

Nantucket Beach Aerial Rocket Range Target #1 Munitions
Response Site

FUDS Property No.:

D01MA045601

Individual Contacted:

Name:

Kevin Bates

Date:

4/23/25

Organization:

MA State Police

Title:

Sergeant

Email address:

kevin.bates@pol.state.ma.us

Telephone No.:

508 228-0706

Questionnaire Responses:

1. **A Formerly Used Defense Site (FUDS) Long Term Management (LTM) plan consisting of informational signage and training on the 3Rs – Recognize, Retreat, Report – is in effect at the site. Have you heard about this LTM program? If so, what is your overall impression of its effectiveness?**

The program has proven effective

2. **Are you aware of the annual in-person 3Rs training or the availability of an on-line training? If so, have you attended or accessed either?**

I am aware of the training availability. I am well-versed in dealing with ordnance

3. **Are you aware of any community concerns regarding the potential residual munitions/explosive hazards that may remain at the site? If so, please provide details.**

Unearthed munitions continue to be a concern

4. **Do you feel well informed about the requirements for implementing the LTM program?**

I am duly-informed

5. Have you or your agency/organization ever implemented measures in accordance with the LTM program to ensure the safety of members of the public (e.g., distributed 3Rs literature, conducted safety briefings/awareness training, etc.)? If so, please describe the activities conducted.

No

6. In the last five years, has your agency/organization ever conducted ground-disturbing activities on your property (e.g., excavation for utilities/foundations, earthmoving construction, dredging, dune renourishment, etc.)? If so, please describe the activities conducted, if any munitions were encountered, and steps that were taken if munitions were encountered.

N/A

7. Have you talked with any U.S. Army Corps of Engineers, state, or environmental officials about the ongoing FUDS LTM program, or any of its requirements, at the site? If you have, were they responsive to your concerns or questions?

I have not

8. Do you have any comments, suggestions, or recommendations regarding the management or implementation of the LTM program?

It appears to be working well as it is

9. Please provide any additional input/thoughts you feel will help us to evaluate the effectiveness of the LTM program in keeping the public safe from explosive hazards associated with residual munitions that may be at the site.

FIVE-YEAR REVIEW SITE INSPECTION CHECKLIST

I. SITE INFORMATION	
Site Name: Project 01 – Aerial Rocket Range Target #1	Date of inspection: 18 and 19 November 2024
Location and Region: Nantucket, Massachusetts	DoD ID: D01MA045601
Agency, office, or company leading the five-year review: USACE New England District	Weather/temperature: Partly cloudy with a high temperature of approximately 55 degrees Fahrenheit (°F) and a low of approximately 46 °F. Wind speed was approximately 3 miles per hour (mph) with gusts as high as 5 mph, from the East.
Remedy Includes: (Check all that apply) ☐ Landfill cover/containment ☐ Access controls ☒ Institutional controls ☐ Groundwater pump and treatment ☐ Surface water collection and treatment ☒ Other: <u>3Rs explosives safety education training and warning signage</u> ☐ Monitored natural attenuation ☐ Groundwater containment ☐ Vertical barrier walls	
Attachments: ☐ Inspection team roster attached ☒ Site map attached (included in Appendix A)	
II. INTERVIEWS (Separately Compiled and Presented Before this Checklist)	
1. O&M site manager _____ Name Title Date Interviewed ☐ at site ☐ at office ☐ by phone Phone no. _____ Problems, suggestions; ☐ Report attached _____ _____	
2. O&M staff _____ Name Title Date Interviewed ☐ at site ☐ at office ☐ by phone Phone no. _____ Problems, suggestions; ☐ Report attached _____ _____	
3. Local regulatory authorities and response agencies (i.e., State and Tribal offices, emergency response office, police department, office of public health or environmental health, zoning office, recorder of deeds, or other city and county offices, etc.) Fill in all that apply. Agency <u>Bureau Waste cleanup, Commonwealth of Massachusetts, MADEP</u> Contact <u>Joanne Dearden</u> <u>Project Manager</u> <u>781-407-1595</u> Name Title Date Phone no. Problems; suggestions; ☐ Report attached _____ _____	

4.	Permits and Service Agreements	☐ Air discharge permit	☐ Readily available	☐ Up to date	☒ N/A
		☐ Effluent discharge	☐ Readily available	☐ Up to date	☒ N/A
		☐ Waste disposal, POTW	☐ Readily available	☐ Up to date	☒ N/A
		☐ Other permits _____	☐ Readily available	☐ Up to date	☒ N/A
Remarks _____					
5.	Gas Generation Records	☐ Readily available	☐ Up to date	☒ N/A	
Remarks _____					
6.	Settlement Monument Records	☐ Readily available	☐ Up to date	☒ N/A	
Remarks _____					
7.	Groundwater Monitoring Records	☐ Readily available	☐ Up to date	☒ N/A	
Remarks _____					
8.	Leachate Extraction Records	☐ Readily available	☐ Up to date	☒ N/A	
Remarks _____					
9.	Discharge Compliance Records	☐ Air	☐ Readily available	☐ Up to date	☒ N/A
		☐ Water (effluent)	☐ Readily available	☐ Up to date	☒ N/A
Remarks _____					
10.	Daily Access/Security Logs	☐ Readily available	☐ Up to date	☒ N/A	
Remarks _____					
IV. O&M Costs					
1.	O&M Organizations				
	☐ State in-house	☐ Contractor for State			
	☐ PRP in-house	☐ Contractor for PRP			
	☐ Federal Facility in-house	☐ Contractor for Federal Facility			
	☒ Other: <u>USACE on behalf of the Department of Defense</u>				
2.	O&M Cost Records				
	☐ Readily available	☐ Up to date			
	☒ Funding Mechanism/agreement in place – Included in the Defense Department's annual budget				
	Original O&M cost estimate _____	☐ Breakdown attached			
Total annual cost by year for review period if available					
	From _____ to _____	☐ Breakdown attached			
	Date Date	Total Cost			

From _____ Date	to _____ Date	Total Cost _____	☐ Breakdown attached
From _____ Date	to _____ Date	Total Cost _____	☐ Breakdown attached
From _____ Date	to _____ Date	Total Cost _____	☐ Breakdown attached
From _____ Date	to _____ Date	Total Cost _____	☐ Breakdown attached

3. Unanticipated or Unusually High O&M Costs During Review Period
 Describe costs and reasons:
 The 2023 Annual LTM Report indicated that three signs were missing and needed to be replaced. It also recommended that one other sign be moved to a better position. Two new sign locations were proposed. This work was completed in November 2024.

V. Access and Institutional Controls ☒ Applicable ☐ N/A

A. Fencing

1. **Fencing Damaged** ☐ Location shown on site map ☐ Gates Secured ☒ N/A
 Remarks _____

B. Other Access Restrictions

1. **Signs and other security measures** ☒ Location shown on site map ☐ N/A
 Remarks: A total of seven educational and warning signs are now present at the Nantucket Beach FUDS. See Figure 2 in Appendix A.

C. Institutional Controls (ICs)

1. **Implementation and Enforcement**
 Site conditions imply ICs not properly implemented ☐ Yes ☒ No ☐ N/A
 Site conditions imply ICs not being fully enforced ☐ Yes ☒ No ☐ N/A

 Types of monitoring (e.g., self-reporting, drive by): Site Inspection
 Frequency: Annually
 Responsible party/agency: USACE New England District
 Contact: Marie Esten Project Manager 978-318-8965

Name	Title	Date	Phone No.
------	-------	------	-----------

 Reporting is up to date ☒ Yes ☐ No ☐ N/A
 Reports are verified by the lead agency ☒ Yes ☐ No ☐ N/A
 Specific requirements in deed or decision documents have been met ☒ Yes ☐ No ☐ N/A
 Violations have been reported ☐ Yes ☐ No ☒ N/A

Other problems or suggestions: ☒ Report Attached – Appendix D _____ _____			
2. Adequacy	☒ ICs are adequate	☐ ICs are inadequate	☐ N/A
Remarks _____			
D. General			
1. Vandalism/trespassing	☐ Location shown on site map	☒ No vandalism evident	
Remarks _____			
2. Land use changes on site ☒ N/A			
Remarks _____			
3. Land use changes off site ☒ N/A			
Remarks _____			
VI. General Site Conditions			
A. Roads ☐ Applicable ☒ N/A			
1. Roads damaged	☐ Location shown on site map	☐ Roads adequate	☒ N/A
Remarks _____			
B. Other Site Conditions			
Remarks: The beach is a dynamic environment that may migrate towards signs or storms may alter the landscape over short periods of time.			
VII. LANDFILL COVERS ☐ Applicable ☒ N/A			
A. Landfill Surface			
1. Settlement (Low spots)	☐ Location shown on site map	☐ Settlement not evident	
Areal extent _____ Depth _____			
Remarks _____			
2. Cracks	☐ Location shown on site map	☐ Settlement not evident	
Lengths _____ Widths _____ Depths _____			
Remarks _____			
3. Erosion	☐ Location shown on site map	☐ Settlement not evident	
Areal extent _____ Depth _____			
Remarks _____			

4.	Holes	☐ Location shown on site map	☐ Settlement not evident
	Areal extent _____	Depth _____	
	Remarks _____		
5.	Vegetative Cover	☐ Grass	☐ Cover properly established ☐ no signs of stress
	☐ Trees/Shrubs (indicate size and locations on a diagram)		
	Remarks _____		
6.	Alternative Cover (armored rock, concrete, etc.)	☐ N/A	
	Remarks _____		
7.	Bulges	☐ Location shown on site map	☐ Bulges not evident
	Areal extent _____	Height _____	
	Remarks _____		
8.	Wet Areas/Water Damage	☐ Wet areas/water damage not evident	
	☐ Wet areas	☐ Location shown on site map	Areal extent _____
	☐ Ponding	☐ Location shown on site map	Areal extent _____
	☐ Seeps	☐ Location shown on site map	Areal extent _____
	☐ Soft subgrade	☐ Location shown on site map	Areal extent _____
	Remarks _____		
9.	Slope Instability	☐ Slides	☐ Location shown on site map ☐ No evidence of slope instability
	Areal Extent _____		
	Remarks _____		
B. Benches ☐ Applicable ☒ N/A			
(Horizontally constructed mounds of earth placed across a steep landfill side slope to interrupt the slope in order to slow down the velocity of surface runoff and intercept and convey the runoff to a lined channel.)			
1.	Flows Bypass Bench	☐ Location shown on site map	☐ N/A or okay
	Remarks _____		
2.	Bench Breached	☐ Location shown on site map	☐ N/A or okay
	Remarks _____		
3.	Bench Overtopped	☐ Location shown on site map	☐ N/A or okay
	Remarks _____		
C. Letdown Channels ☐ Applicable ☒ N/A			
(Channel lined with erosion control mats, riprap, grout bags, or gabions that descend the steep side slope of the cover and will allow the runoff water collected by the benches to move off of the landfill cover without creating erosion gullies.)			

1.	Settlement	☐ Location shown on site map	☐ No evidence of settlement
	Areal Extent _____	Depth _____	
	Remarks _____		
2.	Material Degradation	☐ Location shown on site map	☐ No evidence of settlement
	Material Type _____	Areal Extent _____	
	Remarks _____		
3.	Erosion	☐ Location shown on site map	☐ No evidence of settlement
	Areal Extent _____	Depth _____	
	Remarks _____		
4.	Undercutting	☐ Location shown on site map	☐ No evidence of site map
	Areal Extant _____	Depth _____	
	Remarks _____		
5.	Obstructions	Type _____	☐ No obstructions ☐ Location shown on site map
	Size _____		
	Remarks _____		
6.	Excessive Vegetation Growth Type _____		
	☐ No evidence of excessive growth		
	☐ Vegetation in channels does not obstruct flow		
	☐ Location shown on site map	Areal Extent _____	
	Remarks _____		
D. Cover Penetrations ☐ Applicable ☒ N/A			
1.	Gas Vents	☐ Active	☐ Passive
	☐ Properly Secured/Locked	☐ Functioning	☐ Routinely Sampled ☐ Good condition
	☐ Evidence of leaking at penetration	☐ Needs maintenance	
	☐ N/A		
	Remarks _____		
2.	Gas Monitoring Probes		
	☐ Properly Secured/Locked	☐ Functioning	☐ Routinely Sampled ☐ Good condition
	☐ Evidence of leaking at penetration	☐ Needs maintenance	☐ N/A
	Remarks _____		
3.	Monitoring Wells		
	☐ Properly Secured/Locked	☐ Functioning	☐ Routinely Sampled ☐ Good condition
	☐ Evidence of leaking at penetration	☐ Needs maintenance	☐ N/A
	Remarks _____		
4.	Leachate Extraction Wells		
	☐ Properly Secured/Locked	☐ Functioning	☐ Routinely Sampled ☐ Good condition
	☐ Evidence of leaking at penetration	☐ Needs maintenance	☐ N/A
	Remarks _____		

5. Settlement Monuments Remarks _____	☐ Routinely surveyed ☐ Located ☐ N/A
E. Gas Collection and Treatment ☐ Applicable ☒ N/A	
1. Gas Treatment Facilities ☐ Flaring ☐ Thermal Destruction ☐ Collection for reuse ☐ Good condition ☐ Needs Maintenance Remarks _____	
2. Gas Collection Wells, Manifolds, and Piping ☐ Good Condition ☐ Needs Maintenance Remarks _____	
3. Gas Monitoring Facilities (<i>e.g.</i> , gas monitoring of adjacent homes or buildings) ☐ Good Condition ☐ Needs Maintenance ☐ N/A Remarks _____	
F. Cover Drainage Layer ☐ Applicable ☒ N/A	
1. Outlet Pipes Inspected ☐ Functioning ☐ N/A Remarks _____	
2. Outlet Rock Inspected ☐ Functioning ☐ N/A Remarks _____	
G. Detention/Sedimentation Ponds ☐ Applicable ☒ N/A	
1. Siltation Areal Extent _____ Depth _____ ☐ N/A ☐ Siltation not evident Remarks _____	
2. Erosion Areal Extent _____ Depth _____ ☐ Erosion not evident Remarks _____	
3. Outlet Works ☐ Functioning ☐ N/A Remarks _____	
4. Dam ☐ Functioning ☐ N/A Remarks _____	
H. Retaining Walls ☐ Applicable ☒ N/A	
1. Deformations ☐ Location shown on site map ☐ Deformation not evident Horizontal Displacement _____ Vertical Displacement _____ Rotational Displacement _____	

Remarks _____
2. Degradation ☐ Location shown on site map ☐ Degradation not evident Remarks _____
I. Perimeter Ditches/Off-site Discharge ☐ Applicable ☒ N/A
1. Siltation ☐ Location shown on site map ☐ Siltation not evident Areal Extent _____ Depth _____ Remarks _____
2. Vegetative Growth ☐ Location shown on site map ☐ N/A ☐ Vegetation does not impeded flow Areal extent _____ Type _____ Remarks _____
3. Erosion ☐ Location shown on site map ☐ Erosion not evident Areal Extent _____ Depth _____ Remarks _____
4. Discharge Structure ☐ Functioning ☐ N/A Remarks _____
VIII. VERTICAL BARRIER WALLS ☐ Applicable ☒ N/A
1. Settlement ☐ Location shown on site map ☐ Settlement not evident Areal Extent _____ Depth _____ Remarks _____
2. Performance Monitoring Type of monitoring _____ ☐ Performance not monitored Frequency _____ ☐ Evidence of breaching Head differential _____ Remarks _____
IX. GROUNDWATER/SURFACE WATER REMEDIES ☐ Applicable ☒ N/A
A. Groundwater Extraction Wells, Pumps, and Pipelines ☐ Applicable ☒ N/A
1. Pumps, Wellhead Plumbing, and Electrical ☐ Good condition ☐ All required wells properly operating ☐ Needs Maintenance ☐ N/A Remarks _____
2. Extraction System Pipelines, Valves, Valve Boxes, and Other Appurtenances ☐ Good condition ☐ Needs maintenance Remarks _____

3. Spare Parts and Equipment ☐ Readily available ☐ Good Condition ☐ Requires Upgrade ☐ Needs to be provided Remarks _____
B. Surface Water Collection Structures, Pumps, and Pipelines ☐ Applicable ☒ N/A
1. Collection Structures, Pumps, and Electrical ☐ Good Condition ☐ Needs Maintenance Remarks _____
2. Surface Water Collection System Pipelines, Valves, Valve Boxes, and Other Appurtenances ☐ Good Condition ☐ Needs maintenance Remarks _____
3. Spare Parts and Equipment ☐ Readily Available ☐ Good Condition ☐ Requires Upgrade ☐ Needs to be provided Remarks _____
C. Treatment System ☐ Applicable ☒ N/A
1. Treatment Train ☐ Metals Removal ☐ Oil/Water separation ☐ Bioremediation ☐ Air Stripping ☐ Carbon adsorbers ☐ Filters _____ ☐ Additive (e.g., chelation agent, flocculent) ☐ Others _____ ☐ Good Condition ☐ Needs Maintenance ☐ Sampling ports properly marked and functional ☐ Sampling/maintenance log displayed and up to date ☐ Equipment properly identified ☐ Quantity of groundwater treated annually _____ ☐ Quantity of surface water treated annually _____ Remarks _____
2. Electrical Enclosures and Panels (properly rated and functional) ☐ N/A ☐ Good Condition ☐ Needs Maintenance Remarks _____
3. Tanks, Vaults, Storage Vessels ☐ N/A ☐ Good Condition ☐ Proper secondary containment ☐ Needs Maintenance Remarks _____
4. Discharge Structure and Appurtenances ☐ N/A ☐ Good Condition ☐ Needs Maintenance Remarks _____

<u>the public aware of the explosive hazards present. Although some private stakeholders are unaware of the 3Rs Explosives Safety Training that is being offered, all public and private stakeholders are aware of the potential explosive hazards present.</u>
B. Adequacy of O&M
Describe issues and observations related to the implementation and scope of O&M procedures. In particular, discuss their relationship to the current and long-term protectiveness of the remedy. <u>N/A</u>
C. Early Indicators if Potential Remedy Problems
Describe issues and observations such as unexpected changes in the cost or scope of O&M or a high frequency of unscheduled repairs, that suggest that the protectiveness of the remedy may be compromised in the future. <u>Although the changing site conditions (i.e., erosion in the dynamic beach environment) within the FUDS have required relocation or reconstruction of some signs, USACE consistently evaluates the signs' locations and makes appropriate modifications necessary to maximize their effectiveness.</u>
D. Opportunities for Optimization
Describe possible opportunities for optimization in monitoring tasks or the operation of the remedy. <u>Adding some warning signs, as opposed to the current informational/warning signs, that are affixed to more permanent infrastructure could reduce the chance of damage due to erosion and increase the likelihood that these signs would be viewed by pedestrians, thereby increasing awareness. The sign material would also be less expensive and easier to replace.</u>

Appendix D
Munitions Response Reports

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List of reports included in this appendix:

Munitions Response Reports:

- 02 April 2025, [REDACTED], Nantucket, Massachusetts 02554, Massachusetts State Police Investigative Report #2025-117-5/16

Note that some Explosive Ordnance Disposal (EOD) reports could not be obtained. United States Army Corps of Engineers (USACE) continues to attempt to obtain all EOD reports for all projects currently undergoing land use controls. Unfortunately, obtaining complete reports or any report at all has been an ongoing challenge as EOD reports are not produced for all EOD responses. Reports that are provided are often inadequate as well. Most do not provide specific information such as the site/project name and/or grid coordinate location of the munition response. Many are labeled as found on Nantucket, which can be anywhere on the island and not particularly related to the project and not within or near the project footprint. Requests and the challenge of obtaining all reports with complete information has been elevated up the USACE chain of command; if and when these EOD reports are obtained, they will be provided.

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Massachusetts State Police
INVESTIGATIVE REPORT 2025-117-5/16

Report Date: 04/02/2025

Primary Information

Description:	UXO Nantucket
Dissemination Code:	report respect the security of its associated case
Reporting LEO:	Rockett, Michael (Msp3701 / EOD / Massachusetts State Police)
Backup LEO:	Harris, Gerald JR (MSP4517 / EOD / Massachusetts State Police)
Report Status:	Approved
Report Status Date:	04/04/2025
Approved By:	Qualls, William (msp2439 / Massachusetts State Police)

Synopsis

On Wed, April 2, 2025, at approximately 1300 hours, Troopers Rockett and Harris were dispatched to reports of unexploded ordnance on Nantucket. During construction at [REDACTED], a location we have responded to, numerous items of concern were located, and local authorities were alerted. Due to the condition and number of items unearthed, US Navy Mobile Unit 12 (EOD) was notified and requested to respond. We request fix-wing air support to get the team consisting of 3 Navy EOD techs and 2 Troopers on the island. We were approved and departed Plymouth airbase at 1400. Once on scene, we began to locate and identify the items so we could triage them and devise an appropriate plan. In total, we identified 4 expended rocket motors and five 5" Zuni rocket warheads. Via digital x-ray and ordnance recon, we were able to clear the motors. The Warheads, due to their age and level of deterioration, would need to be explosively vented. We x-rayed the rockets to eliminate the possibility of chemical filler before disposal. We located a suitable area of secluded beach on the property and explosively vented each round with jet perforators. Each round was shot at the fuze to ordnance junction on the nose, middle centerline, and base, to eliminate the possibility of nose or base fuzing or explosive fillers. Once confirmed to be vented and empty, they were collected and placed in a Conex at Nantucket FD. The next time we have a truck on the island, we or the Navy will collect these items for final disposition as training aids or scrap metal.

Address #1 - LOCATION OCCURRED #1 - 12 New South Rd

Primary Information

Address: [REDACTED], Nantucket, MASSACHUSETTS 02554 UNITED STATES

Reviews

<u>Review Date</u>	<u>Reviewer</u>
4/4/2025 12:00:36 PM	Qualls, William (msp2439 / EOD / Massachusetts State Police)

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Appendix E
Photo Documentation Log

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Second FYR Inspection

Nantucket Beach FUDS

Inspection Date: 11/18/2024 Location: New South Road (NTK-006) Description: Replacement Sign Installed	
Inspection Date: 11/18/2024 Location: New South Road (NTK-006) Description: Site Conditions	

Second FYR Inspection
Nantucket Beach FUDS

Inspection Date: 11/18/2024 Location: New South Road (NTK-006) Description: Site Conditions	
Inspection Date: 11/18/2024 Location: New South Road (NTK-006) Description: Site Conditions	

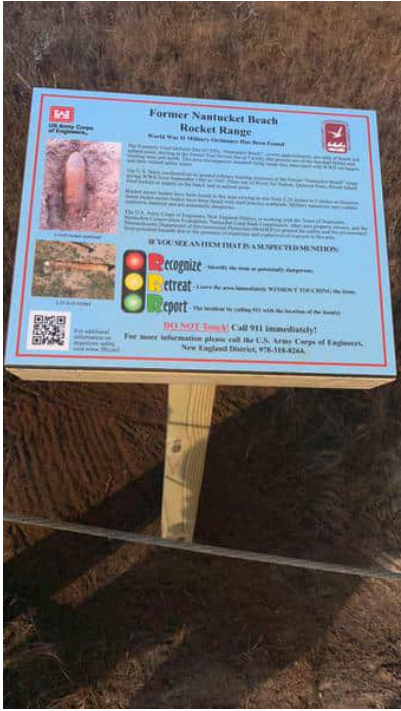
Second FYR Inspection
Nantucket Beach FUDS

Inspection Date: 11/18/2024 Location: New South Road (NTK-006) Description: Site Conditions	
Inspection Date: 11/18/2024 Location: New South Road (NTK-006) Description: Site Conditions	

Second FYR Inspection
Nantucket Beach FUDS

Inspection Date: 11/18/2024 Location: New South Road (NTK-006) Description: Site Conditions	
Inspection Date: 11/18/2024 Location: New South Road (NTK-006) Description: Site Conditions	

Second FYR Inspection	
Nantucket Beach FUDS	

Inspection Date: 11/18/2024 Location: New South Road (NTK-006) Description: Site Conditions	
Inspection Date: 11/18/2024 Location: Russell Way Road (NTK-007) Description: New Sign Installed	

Second FYR Inspection
Nantucket Beach FUDS

Inspection Date: 11/18/2024 Location: Russell Way Road (NTK-007) Description: Site Conditions	
Inspection Date: 11/18/2024 Location: Russell Way Road (NTK-007) Description: Site Conditions	

Second FYR Inspection
Nantucket Beach FUDS

Inspection Date: 11/18/2024 Location: Russell Way Road (NTK-007) Description: Site Conditions	
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Second FYR Inspection
Nantucket Beach FUDS

Inspection Date: 11/18/2024 Location: Russell Way Road (NTK-007) Description: Site Conditions	
Inspection Date: 11/18/2024 Location: Russell Way Road (NTK-007) Description: Site Conditions	

Second FYR Inspection
Nantucket Beach FUDS

Inspection Date: 11/18/2024 Location: Russell Way Road (NTK-007) Description: Site Conditions	
Inspection Date: 11/18/2024 Location: Russell Way Road (NTK-007) Description: Site Conditions	

Second FYR Inspection

Nantucket Beach FUDS

Inspection Date:
11/18/2024

Location:
New Beach Access Path
(NTK-003)

Description:
New Sign Installed



Inspection Date:
11/18/2024

Location:
New Beach Access Path
(NTK-003)

Description:
Site Conditions



Second FYR Inspection	
Nantucket Beach FUDS	

Inspection Date: 11/18/2024 Location: New Beach Access Path (NTK-003) Description: Site Conditions	
Inspection Date: 11/18/2024 Location: New Beach Access Path (NTK-003) Description: Site Conditions	

Second FYR Inspection
Nantucket Beach FUDS

Inspection Date: 11/18/2024 Location: New Beach Access Path (NTK-003) Description: Site Conditions	
Inspection Date: 11/18/2024 Location: New Beach Access Path (NTK-003) Description: Site Conditions	

Second FYR Inspection
Nantucket Beach FUDS

Inspection Date: 11/18/2024 Location: New Beach Access Path (NTK-003) Description: Site Conditions	
Inspection Date: 11/18/2024 Location: New Beach Access Path (NTK-003) Description: Site Conditions	

Second FYR Inspection	
Nantucket Beach FUDS	

Inspection Date: 11/18/2024 Location: New Beach Access Path (NTK-003) Description: Site Conditions	
Inspection Date: 11/18/2024 Location: Land Bank Commission Property (NTK-002) Description: Replacement Sign Installed	

Second FYR Inspection
Nantucket Beach FUDS

Inspection Date: 11/18/2024 Location: Land Bank Commission Property (NTK-002) Description: Site Conditions	
Inspection Date: 11/18/2024 Location: Land Bank Commission Property (NTK-002) Description: Site Conditions	

Second FYR Inspection
Nantucket Beach FUDS

Inspection Date: 11/18/2024 Location: Land Bank Commission Property (NTK-002) Description: Site Conditions	
Inspection Date: 11/18/2024 Location: Land Bank Commission Property (NTK-002) Description: Site Conditions	

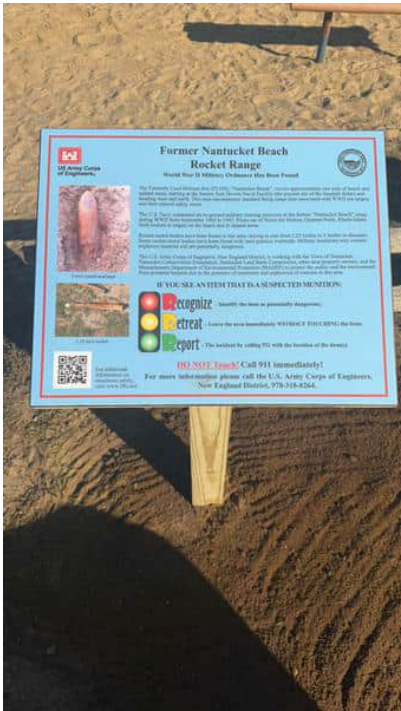
Second FYR Inspection
Nantucket Beach FUDS

Inspection Date: 11/18/2024 Location: Land Bank Commission Property (NTK-002) Description: Site Conditions	
Inspection Date: 11/18/2024 Location: Land Bank Commission Property (NTK-002) Description: Site Conditions	

Second FYR Inspection
Nantucket Beach FUDS

Inspection Date: 11/18/2024 Location: Land Bank Commission Property (NTK-002) Description: Site Conditions	
Inspection Date: 11/18/2024 Location: Land Bank Commission Property (NTK-002) Description: Site Conditions	

Second FYR Inspection	
Nantucket Beach FUDS	

Inspection Date: 11/18/2024 Location: Tom Nevers Ball Field (NTK-001) Description: Replacement Sign Installed	
Inspection Date: 11/18/2024 Location: Tom Nevers Ball Field (NTK-001) Description: Site Conditions	

Second FYR Inspection
Nantucket Beach FUDS

Inspection Date: 11/18/2024 Location: Tom Nevers Ball Field (NTK-001) Description: Site Conditions	
Inspection Date: 11/18/2024 Location: Tom Nevers Ball Field (NTK-001) Description: Site Conditions	

Second FYR Inspection
Nantucket Beach FUDS

Inspection Date: 11/18/2024 Location: Tom Nevers Ball Field (NTK-001) Description: Site Conditions	
Inspection Date: 11/18/2024 Location: Tom Nevers Ball Field (NTK-001) Description: Site Conditions	

Second FYR Inspection
Nantucket Beach FUDS

Inspection Date: 11/18/2024 Location: Tom Nevers Ball Field (NTK-001) Description: Site Conditions	
Inspection Date: 11/18/2024 Location: Tom Nevers Ball Field (NTK-001) Description: Site Conditions	

Second FYR Inspection	
Nantucket Beach FUDS	

Inspection Date: 11/18/2024 Location: Tom Nevers Ball Field (NTK-001) Description: Site Conditions	
Inspection Date: 11/18/2024 Location: East Forked Pond Valley (NTK-004) Description: Front of 3Rs sign before inspection and cleaning	

Second FYR Inspection	
Nantucket Beach FUDS	

Inspection Date: 11/18/2024 Location: East Forked Pond Valley (NTK-004) Description: Front of 3Rs sign after inspection and cleaning	
Inspection Date: 11/18/2024 Location: East Forked Pond Valley (NTK-004) Description: Site Conditions	

Second FYR Inspection
Nantucket Beach FUDS

Inspection Date: 11/18/2024 Location: East Forked Pond Valley (NTK-004) Description: Site Conditions	
Inspection Date: 11/18/2024 Location: East Forked Pond Valley (NTK-004) Description: Site Conditions	

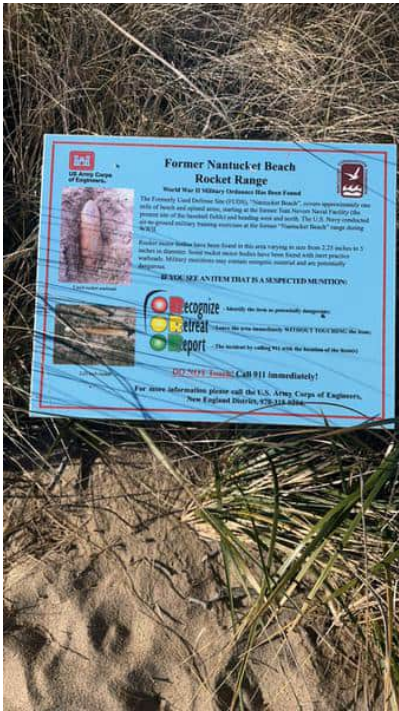
Second FYR Inspection
Nantucket Beach FUDS

Inspection Date: 11/18/2024 Location: East Forked Pond Valley (NTK-004) Description: Site Conditions	
Inspection Date: 11/18/2024 Location: East Forked Pond Valley (NTK-004) Description: Site Conditions	

Second FYR Inspection
Nantucket Beach FUDS

Inspection Date: 11/18/2024 Location: East Forked Pond Valley (NTK-004) Description: Site Conditions	
Inspection Date: 11/18/2024 Location: East Forked Pond Valley (NTK-004) Description: Site Conditions	

Second FYR Inspection	
Nantucket Beach FUDS	

Inspection Date: 11/18/2024 Location: East Forked Pond Valley (NTK-004) Description: Site Conditions	
Inspection Date: 11/18/2024 Location: West Forked Pond Valley (NTK-005) Description: Front of 3Rs sign before inspection and cleaning	

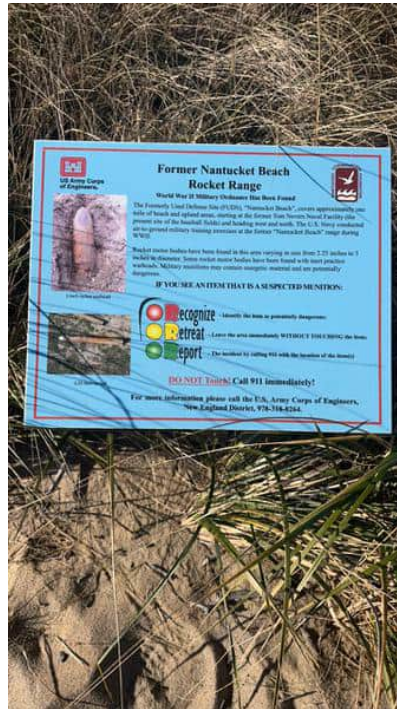
Second FYR Inspection

Nantucket Beach FUDS

Inspection Date:
11/18/2024

Location:
West Forked Pond Valley
(NTK-005)

Description:
Front of 3Rs sign after
inspection and cleaning



Inspection Date:
11/18/2024

Location:
West Forked Pond Valley
(NTK-005)

Description:
Site Conditions



Second FYR Inspection
Nantucket Beach FUDS

Inspection Date: 11/18/2024 Location: West Forked Pond Valley (NTK-005) Description: Site Conditions	
Inspection Date: 11/18/2024 Location: West Forked Pond Valley (NTK-005) Description: Site Conditions	

Second FYR Inspection
Nantucket Beach FUDS

Inspection Date: 11/18/2024 Location: West Forked Pond Valley (NTK-005) Description: Site Conditions	
Inspection Date: 11/18/2024 Location: West Forked Pond Valley (NTK-005) Description: Site Conditions	

Second FYR Inspection
Nantucket Beach FUDS

Inspection Date: 11/18/2024 Location: West Forked Pond Valley (NTK-005) Description: Site Conditions	
Inspection Date: 11/18/2024 Location: West Forked Pond Valley (NTK-005) Description: Site Conditions	