



Vieques Restoration Advisory Board Meeting #46

September 15, 2015

Reminders



- **Simultaneous translation is provided for this meeting. Headphones are available for your use.**
- **Additional information about the Vieques cleanup can be found at:**
 - **Vieques public website:
www.navfac.navy.mil/vieques**
 - **Vieques Cleanup News flyers and newsletters**
 - **Vieques Restoration Program Facebook page
(www.facebook.com/ViequesRestoration)**

- **To enhance the effectiveness of meeting discussions, please remember:**

1. Speakers present information.
2. Audience hold questions/comments to end of each presentation.
3. Ensure everyone who has a question has opportunity to ask question or make comment
4. Agency representatives will also be available for additional questions or comments during the break or after the meeting.

Agenda for Tonight's Meeting



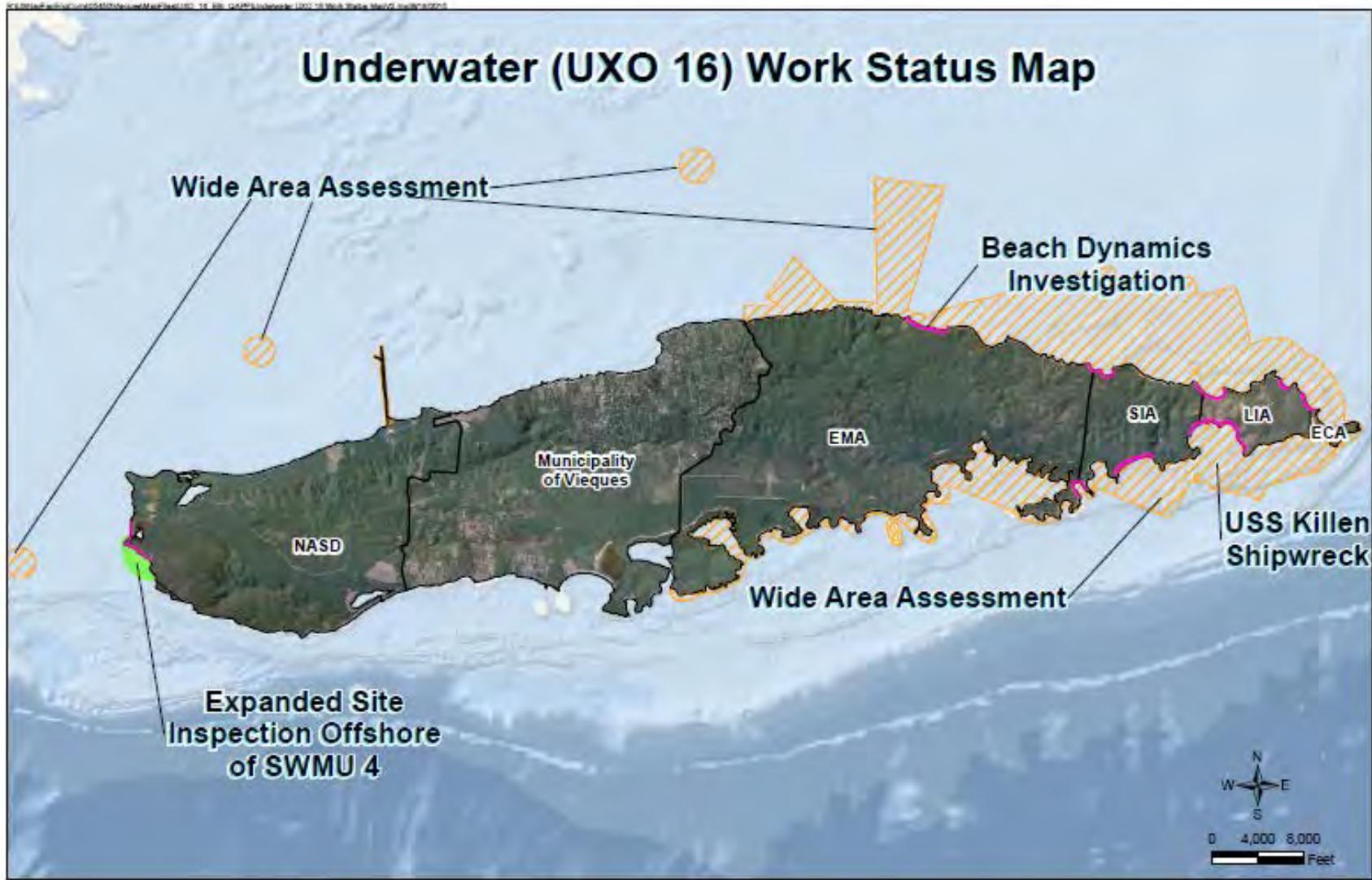
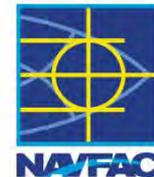
6:00- 6:15	Welcome and Introductions	Dan Waddill/Navy
6:15 - 6:40	NOAA Marine Resources Study Update	David Whittall/NOAA
6:40 - 7:40	<p>Navy Project Status Update and Path Forward</p> <ul style="list-style-type: none"> • Underwater (UXO 16) Work Status Update <ul style="list-style-type: none"> ○ Expanded Site Inspection Adjacent to SWMU 4 ○ Wide Area Assessment ○ Beach Dynamics ○ Underwater Video of Killen (sunken ship in Bahia Salinas del Sur) • UXO 15 and UXO 16 Encrusted Munitions Non-Time-Critical Removal Action (NTCRA) • SWMU 4 NTCRA Status Update • Community Involvement Plan Status Update • Status of Sites and Upcoming Activities 	<p>Byron Brant/Navy Dan Waddill/Navy Kevin Cloe/Navy Daniel Hood/Navy Madeline Rivera/Navy</p>
7:40 - 7:50	Break	
7:50 - 8:15	<p>Regulatory Agencies Update</p> <ul style="list-style-type: none"> • Report on Site Visit to Laguna Anones 	<p>USFWS PREQB EPA PRDNER</p>
8:15 - 8:30	Other Questions and Comments from the Public	Members of the Public

NOAA MARINE RESOURCES STUDY UPDATE

Navy Project Update

UNDERWATER (UXO 16) WORK STATUS UPDATE

Underwater (UXO 16) Work Status



Findings

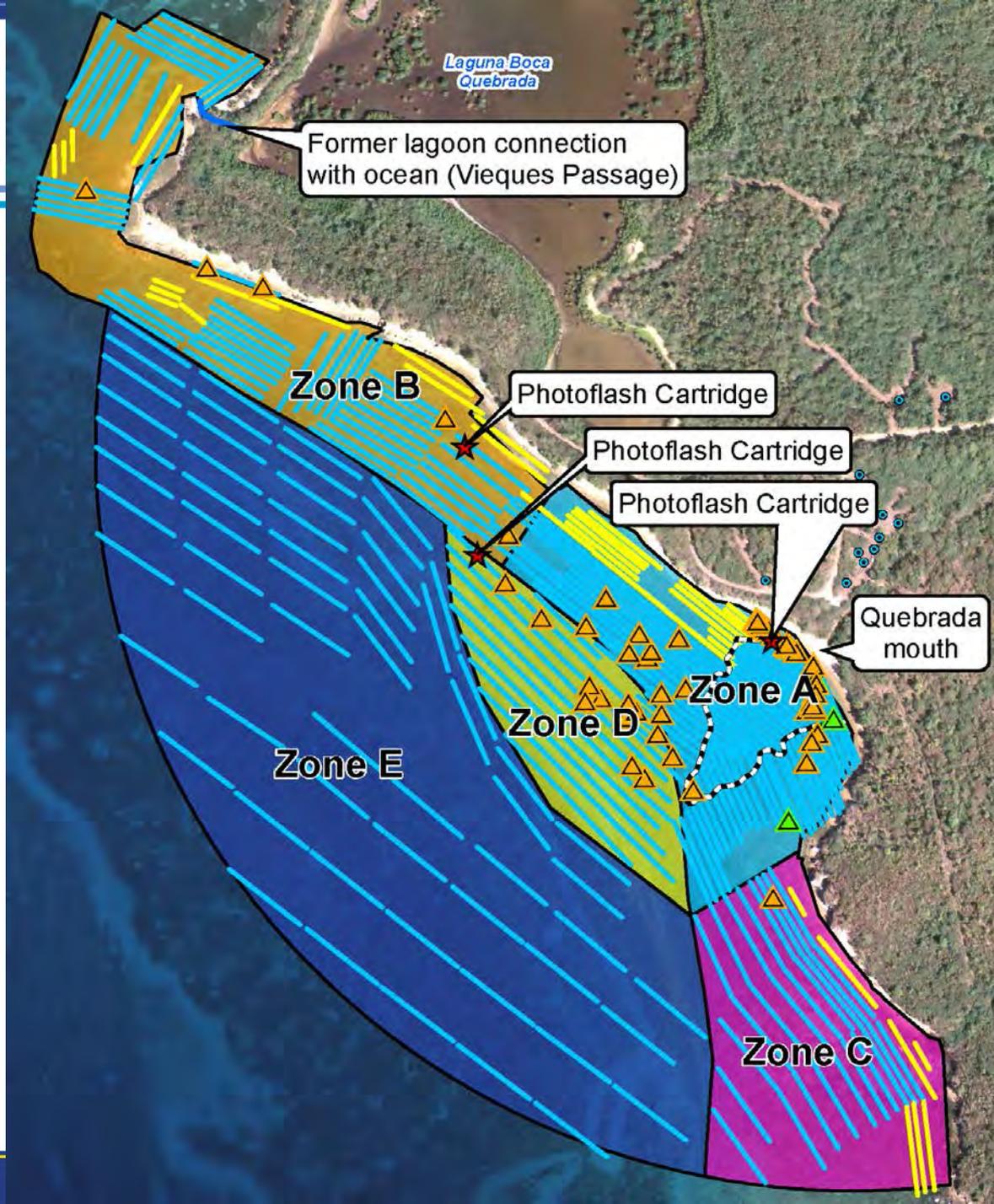
2015 ESI

Munition Items = 3
(photoflash cartridges)

Munitions Debris = 57

2012 SI

Munition Items = 3
(20-mm projectile, photoflash cartridge, 40-mm flare base)



Expanded Site Inspection: Recovered Discarded Military Munitions (DMM)



Quebrada



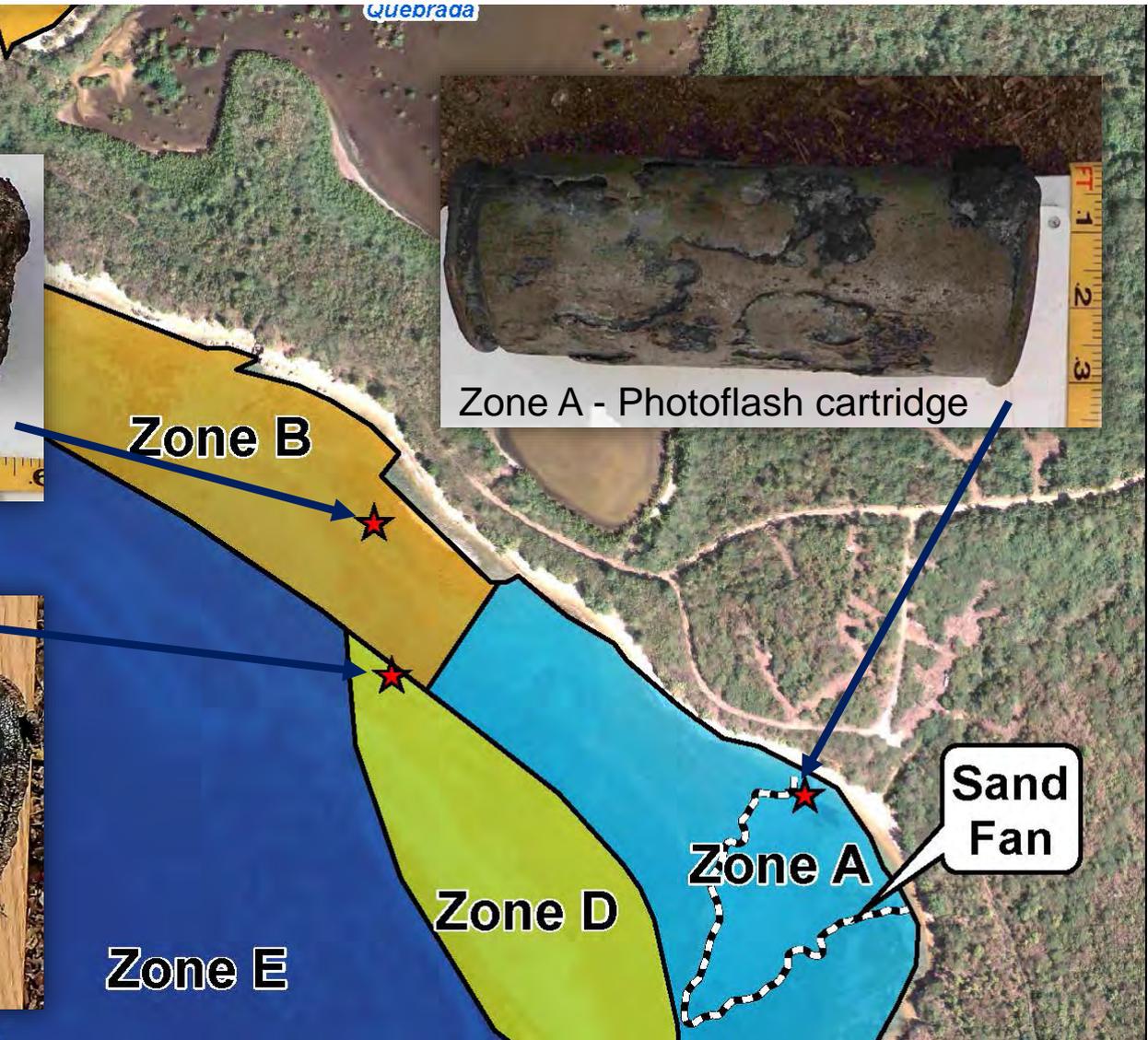
Zone B – Photoflash cartridge



Zone A - Photoflash cartridge



Zone D – Photoflash cartridge



Zone B

Zone D

Zone E

Zone A

Sand Fan

Expanded Site Inspection: Examples of Recovered Munitions Debris



**Bomb Fuze
MK 234**



Metal Disc



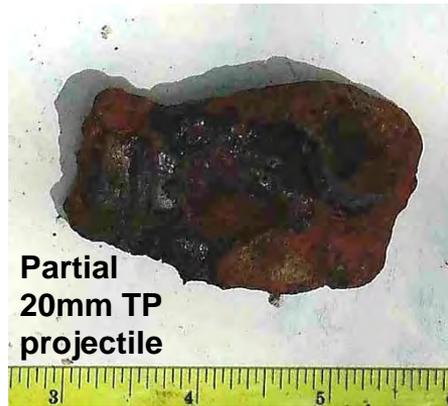
Booster cup



Flare base



**Metal
fragment**



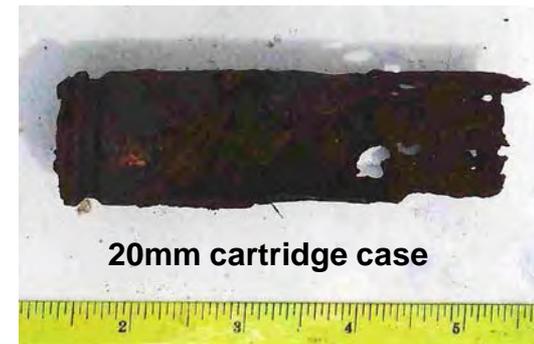
**Partial
20mm TP
projectile**



Flare

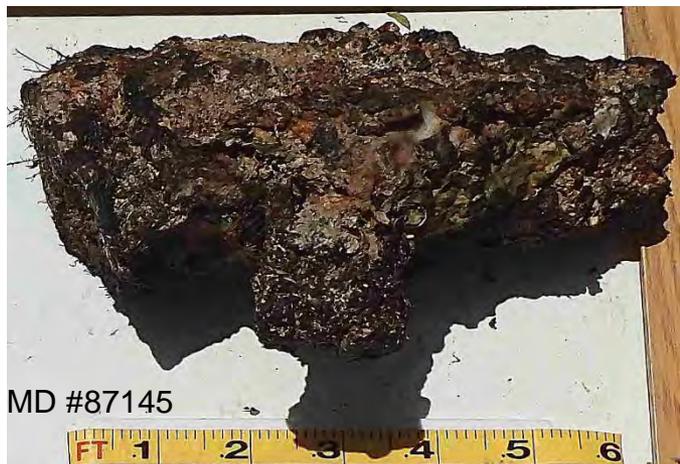


**Flare
canister**



20mm cartridge case

Expanded Site Inspection: Encrusting is Prevalent and Can Disguise Items



Beach Dynamics Study: Munitions Surrogates Tracking



•61 Munitions Surrogates

- Designed to simulate common munitions found on Vieques
- Placed in near shore areas where currents and wave action are strongest

•Tracked Monthly

- Each surrogate has specific ID, color code, and is equipped with acoustic transmitter (pinger)
- Tracked using:
 - Acoustic receiver (hydrophone)
 - Underwater viewing box
 - Remotely operated vehicle (ROV)
 - Global Positioning System (GPS)

Munitions Surrogates



12 x 81-mm Mortar



16 x 2.75-in Rocket



15 x 5-inch Projectile



9 x MK 76 Practice Bomb

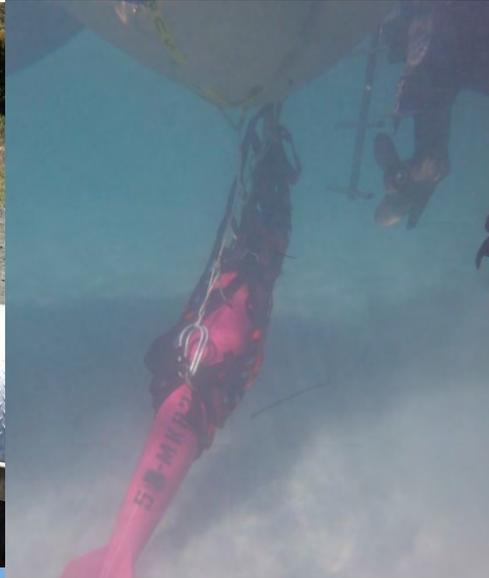


7 x MK 82 500-lb Bomb



2 x MK 118 Sub-munition

Munitions Surrogates Deployment



Munitions Surrogates Tracking



Underwater Video of Killen



22-JUL-15
11:11:15

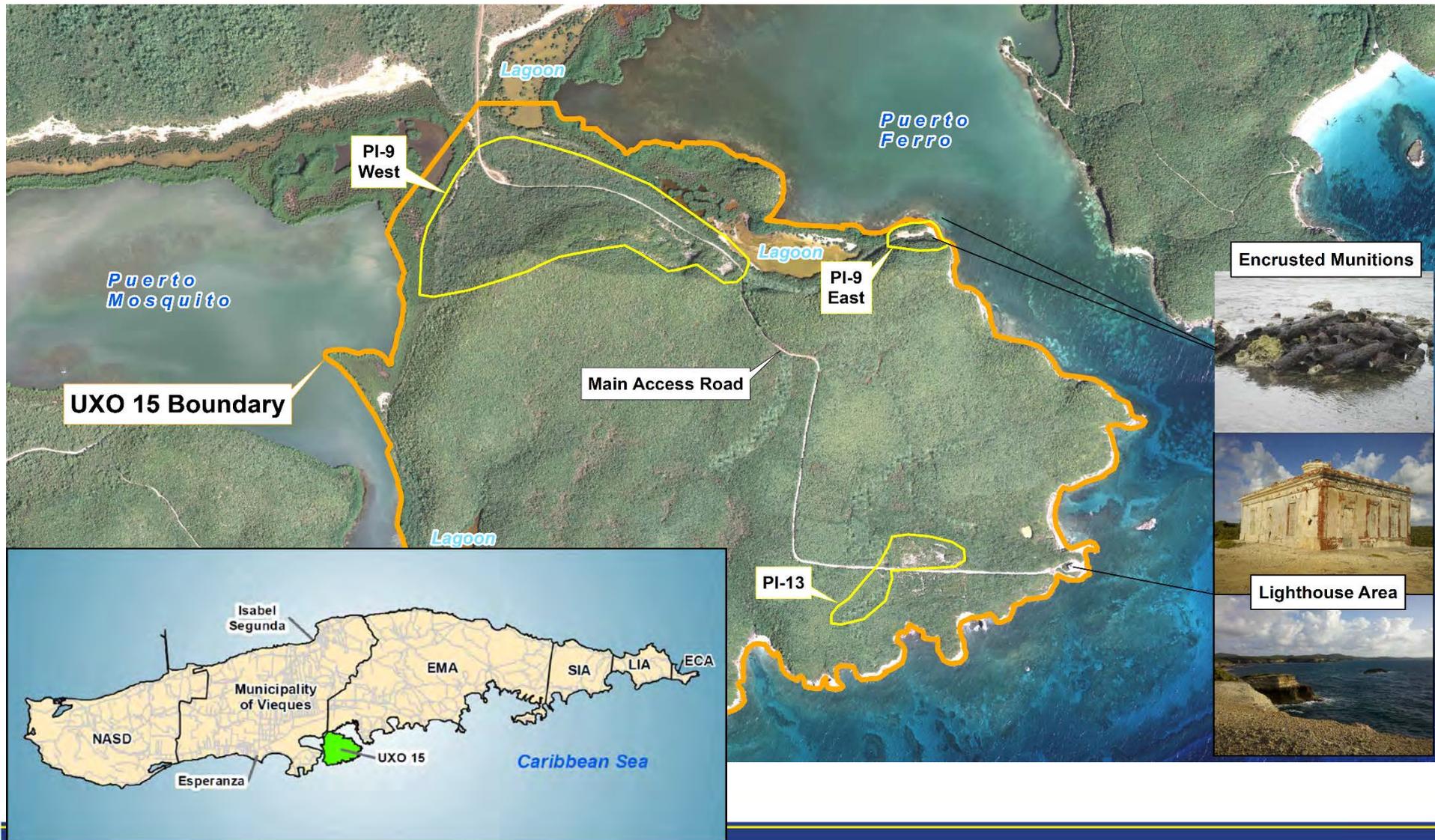
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Underwater Video of Killen
(Sunken Ship in Bahia Salinas del Sur)
Vieques, Puerto Rico

Navy Project Update

**NON-TIME-CRITICAL REMOVAL ACTION (NTCRA)
UXO 15 (PI 9 EAST) AND ADJACENT UXO 16
ENCRUSTED MUNITIONS**

UXO 15 (PI 9 East) and Adjacent UXO 16 Location and Site Features



NTCRA Area



NTCRA Scope and Status

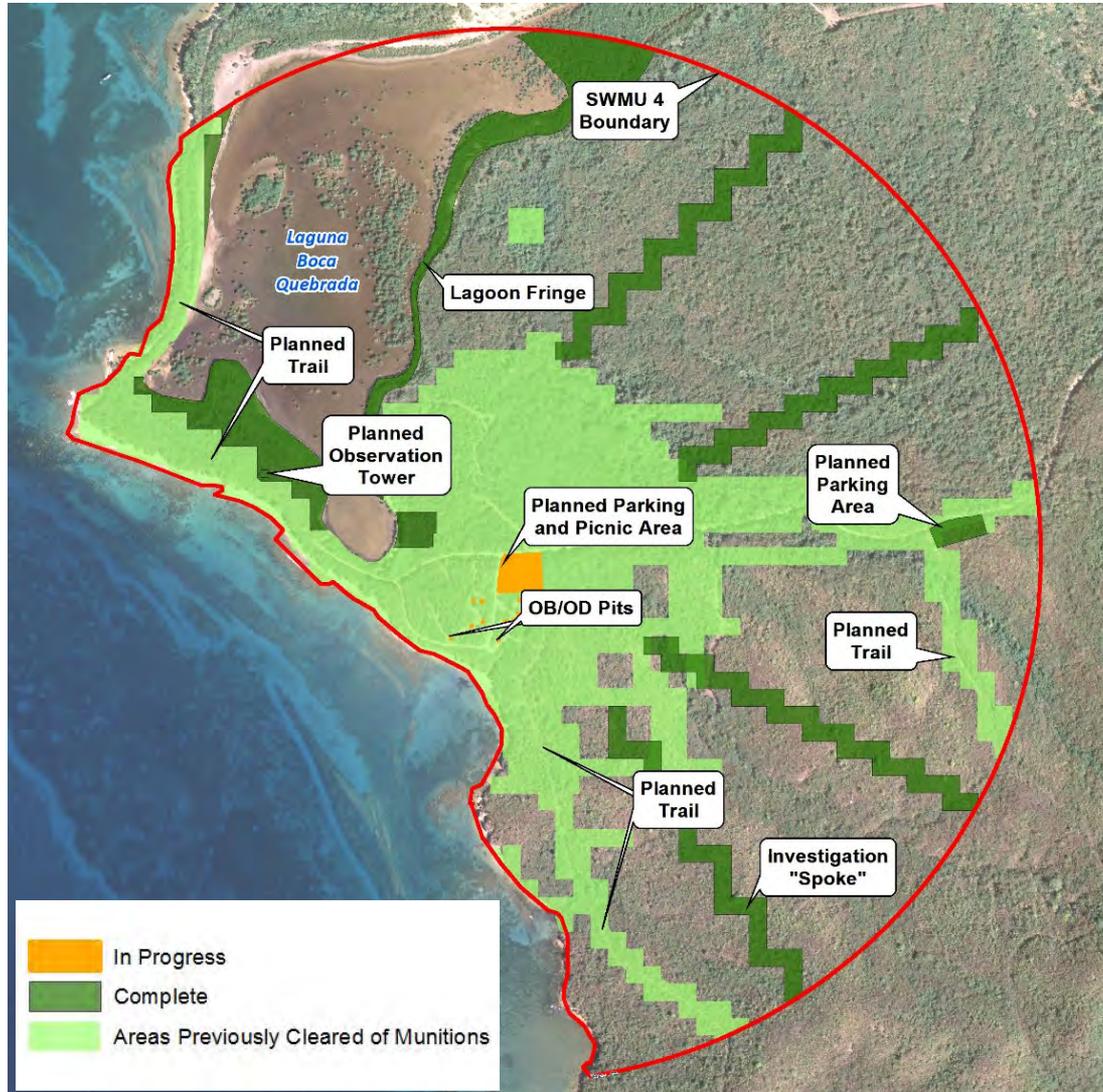


- NTCRA will address terrestrial and underwater areas where encrusted items have been identified
 - UXO 15 PI-9 East
 - 0.25-acre area
 - UXO 16
 - Small pile (0.06-acre area)
- Biological evaluation and associated protection measures will be implemented
- Engineering Evaluation/Cost Analysis (EE/CA) currently available for public review and comment
 - Review period August 3, 2015 to September 16, 2015

Navy Project Update

SWMU 4 NON-TIME CRITICAL INTERIM REMOVAL ACTION

Status of NTCRA



SWMU 4 NTCRA Status Update



- **Digital Geophysical Mapping (DGM) survey to identify the location of buried metallic objects within planned parking, picnic, and observation tower areas**



SWMU 4 NTCRA Status Update



- MEC Team conducting mag & dig operations at SWMU 4



SWMU 4 NTCRA Status Update



- **Munitions Removal Operations**



Lagoon Perimeter



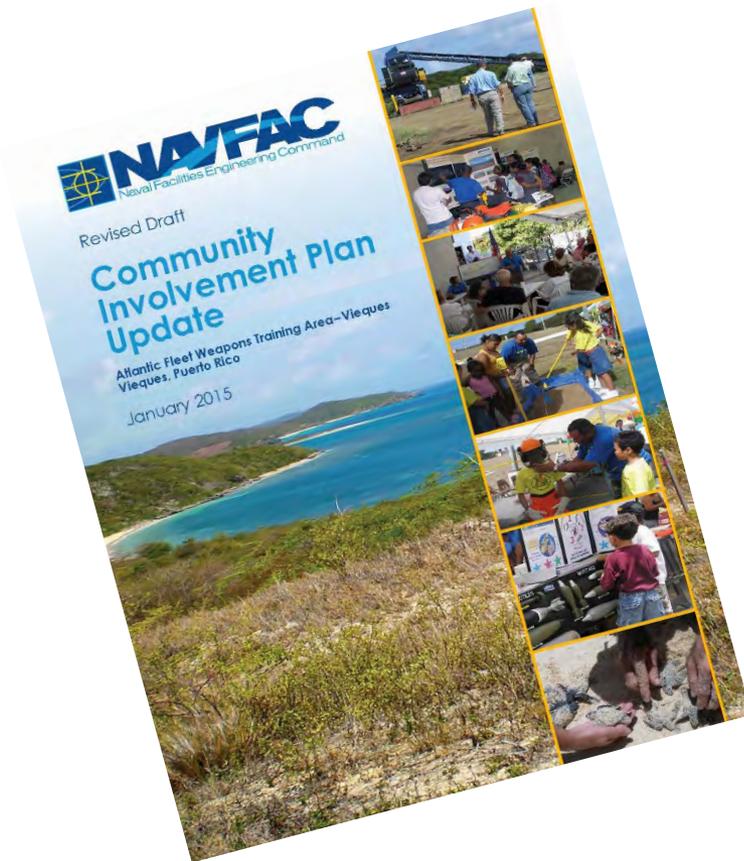
Parking, Picnic, Tower Areas



Navy Project Update

COMMUNITY INVOLVEMENT PLAN STATUS UPDATE

Community Involvement Plan Update



- The CIP Update was based on community input, including 88 interviews and 164 questionnaires
- The public comment period for the Draft Final Community Involvement Plan (CIP) began June 30, 2015 and ended August 14, 2015
- The Final CIP will be available in a few weeks on the Navy's and EPA's websites and in the Administrative Record

Navy Project Update

STATUS OF SITES AND UPCOMING ACTIVITIES

Status of Sites and Upcoming Activities at West Vieques



R:\USNavFac\EngCom\405450\Meques\MapFile\MISC\Planned2015\CleanupActivities_10\est.mxd 8/19/2015 F.Cain_ch2mhillengis

Planned Activities

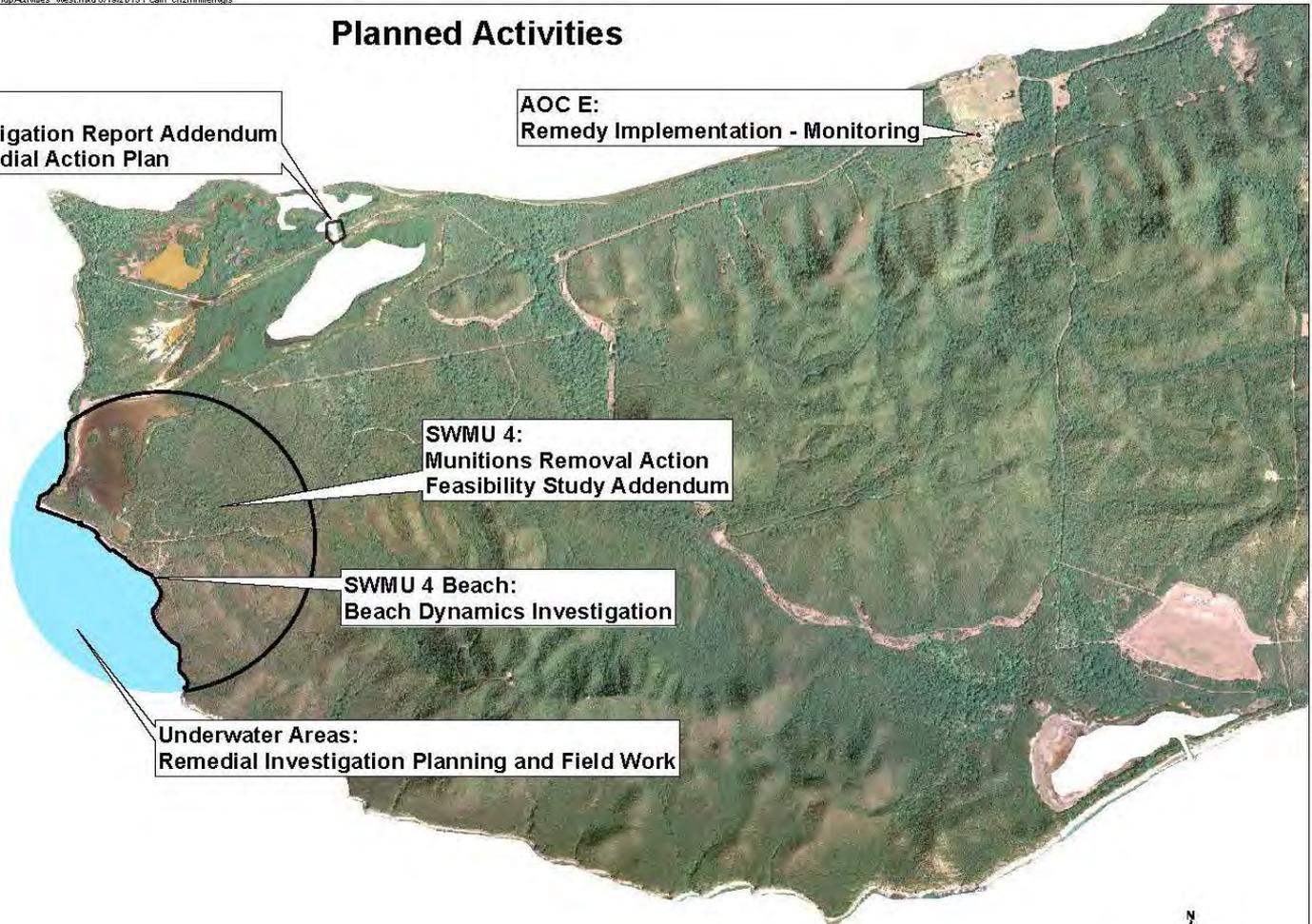
SWMU 6:
Remedial Investigation Report Addendum
Proposed Remedial Action Plan

AOC E:
Remedy Implementation - Monitoring

SWMU 4:
Munitions Removal Action
Feasibility Study Addendum

SWMU 4 Beach:
Beach Dynamics Investigation

Underwater Areas:
Remedial Investigation Planning and Field Work

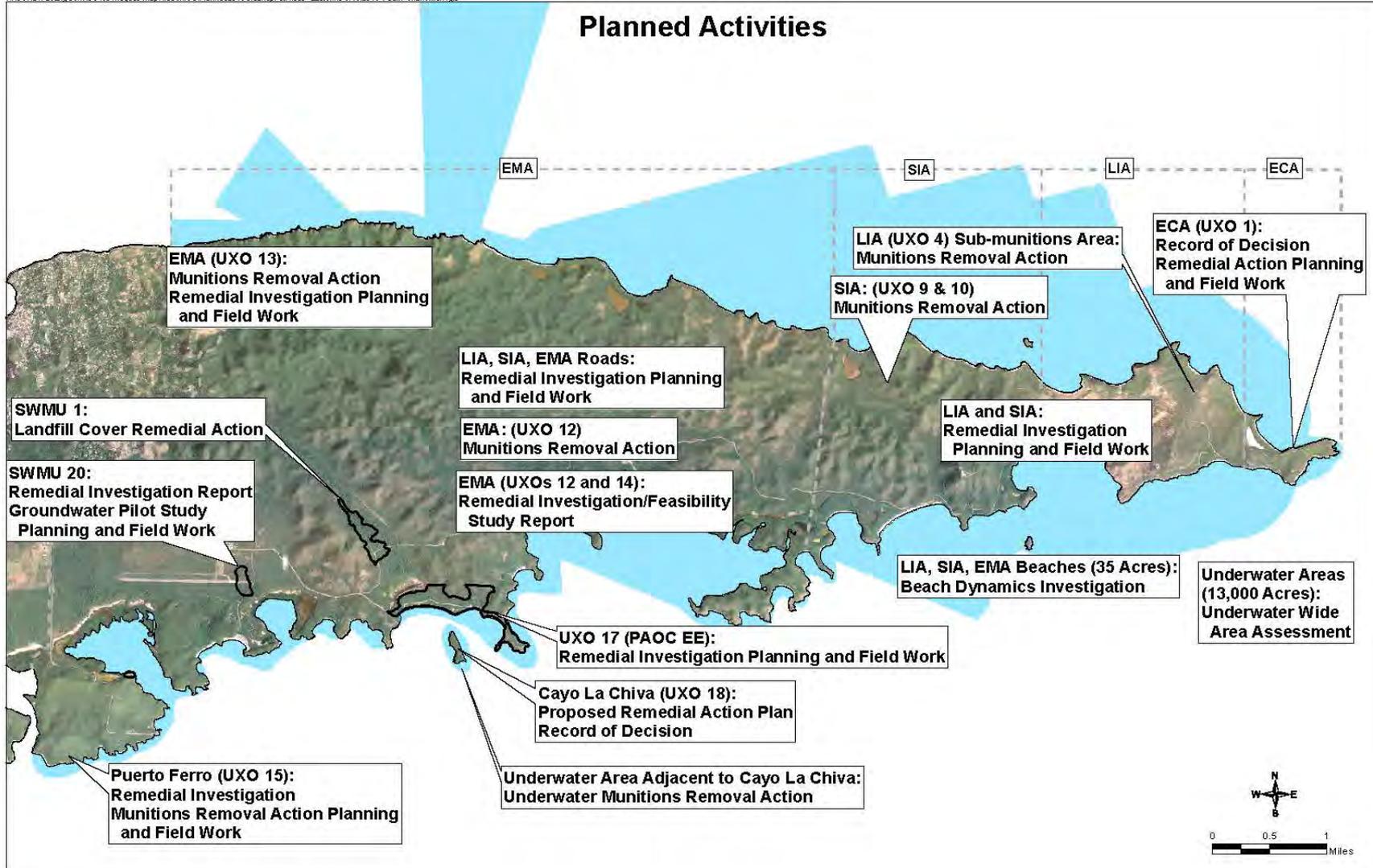


Status of Sites and Upcoming Activities at East Vieques



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Planned Activities



Regulatory Agency Updates

REGULATORY AGENCIES

- **U.S. Fish and Wildlife Service**
- **Puerto Rico Environmental Quality Board**
- **Environmental Protection Agency**
- **Puerto Rico Department of Natural and Environmental Resources**

Vieques Restoration Program Facebook Page

www.facebook.com/ViequesRestoration



The screenshot shows the Facebook page for the Vieques Environmental Restoration Program. The page features a large cover photo of a tropical coastline with turquoise water and green hills. A profile picture shows a sea turtle swimming in shallow water. The page name is "Vieques Environmental Restoration" with "Community" below it. Navigation tabs include "Timeline", "About", "Events", "Photos", and "More". On the left sidebar, it shows "153 people like this" and an "Invite friends to like this Page" button. The "ABOUT" section contains the text: "Get involved in the Vieques Environmental Restoration Program! ¡Participe del Programa de Restauración Ambiental de Vieques!" and the URL "http://www.navfac.navy.mil/vieques". The main content area displays a post from "Vieques Environmental Restoration" dated May 12, with the text: "Welcome to the Vieques Environmental Restoration Program page. Stay connected with us to learn about opportunities to participate by attending public meetings, review public documents, and read about progress on the various cleanup and restoration actions in Vieques. In addition to receiving general updates, you may also submit input or questions about the cleanup activities. Questions or comments submitted through this forum will be reviewed and responded to as appropriate ... See More See Translation".

Did you know?



Record Number	Type	Format	Date	File Size	File	Author/Institution
0008	PUBLIC NOTICE	BURSE	02/18/2011	1 MB	REVISED CLEANUP NEWSLETTER REGARDING COMMUNITY ACTIVITIES & LATEST DEVELOPMENTS REGARDING REMEDIATION OF THE BUREAU OF NAVAL FACILITIES (NAVFAC) AT VIEQUES ISLAND, PUERTO RICO	DNV HILL
0009	REPORT	BURSE	02/18/2011	4 MB	FINAL SITE MANAGEMENT PLAN FISCAL YEAR 2011 ATLANTIC FLEET WEAPONS TRAINING AREA VIEQUES ISLAND, PUERTO RICO	DNV HILL
0001	CORRESPONDENCE	BURSE	02/14/10	884 KB	TRANSMITTAL LETTER REGARDING THE FINAL SITE MANAGEMENT PLAN FISCAL YEAR 2011 ATLANTIC FLEET WEAPONS TRAINING AREA VIEQUES ISLAND, PUERTO RICO	NAVFAC ATLANTIC
0006	PUBLIC NOTICE	PDF	02/14/10	276 KB	PUBLIC NOTICE WITH PUBLIC COMMENTS ON THE ENGINEERING EVALUATION AND COST ANALYSIS FOR A NON-TIME CRITICAL REMEDIATION ACTION AT VIEQUES ISLAND, PUERTO RICO. COMMENTS DUE BY 11:59 PM EST TO: CDR/LCJW/ATLANTIC FLEET WEAPONS TRAINING AREA, ENGINEER AND SUPERVISOR, VIEQUES	PRIMER HUB

The Vieques Administrative Record contains all the public documents related to Vieques cleanup and restoration activities.

Get informed and share!

www.navfac.navy.mil/vieques



www.navfac.navy.mil/vieques

- **Comments or Questions?**
- **Next Meeting Date**
- **If interested in becoming a Vieques Restoration Advisory Board member, contact Madeline Rivera, Navy Vieques Site Manager**
 - Phone: 787-741-4792
 - Email: madeline.rivera@navy.mil