



Vieques Restoration Advisory Board Meeting #49

May 17, 2016

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

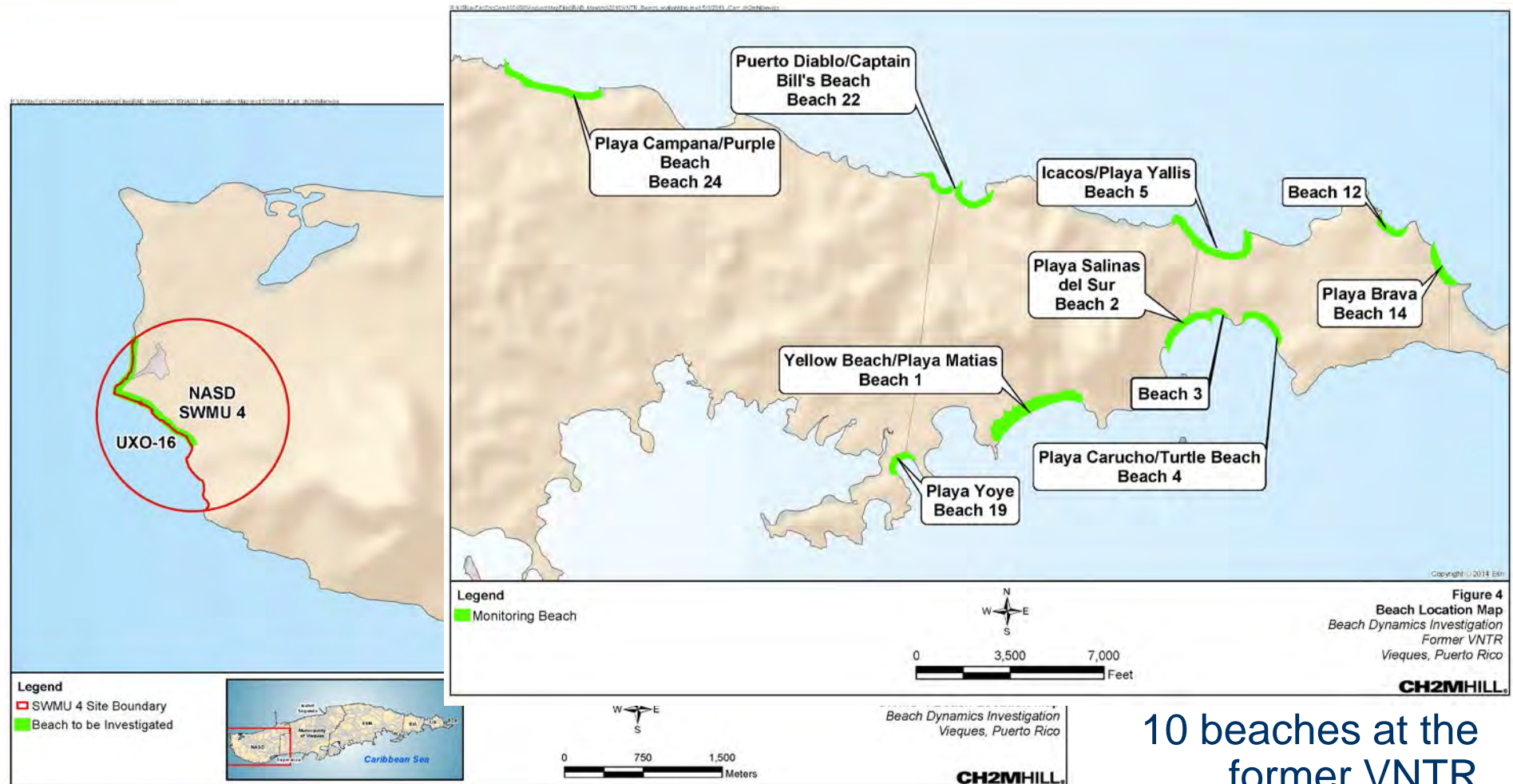


6:00 – 6:10	Welcome and Introductions	Dan Waddill/Navy
6:10 – 7:00	Open Forum Discussion & Questions from the RAB	Members of the Public
Navy Project Status Update and Path Forward		
7:00 – 7:15	• Underwater Work Update	
	○ Beach Dynamics Study	
	○ SWMU 4 Underwater Remedial Investigation	Dan Waddill/Navy
	○ Cayo La Chiva Work Plan	Kevin Cloe/Navy
7:15 - 7:25	○ Wide Area Assessment	Daniel Hood/Navy
	• UXO 15 Remedial Investigation Update	Madeline Rivera/Navy
7:25 - 7:30	• Site Status, Upcoming Field Activities and RAB Document Review	
7:30 – 7:45	Break	
7:45 – 8:30	Regulatory Agencies Update	USFWS PREQB EPA PRDNER

Navy Project Update

BEACH DYNAMICS STUDY

Study Area



10 beaches at the
former VNTR

1 beach at the former NASD

Dynamic Nature of Beaches



Beach 14/Playa Brava – September



Beach 14/Playa Brava - October



Beach 24/Playa Campaña - September



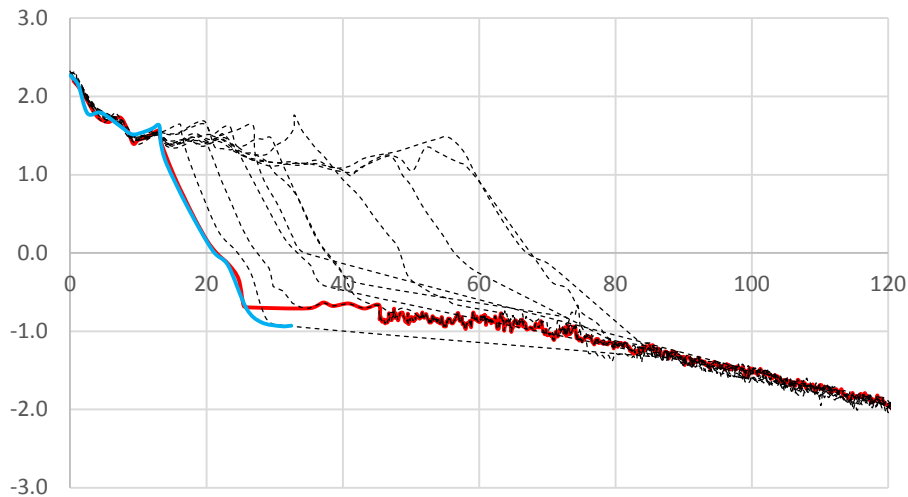
Beach 24/Playa Campaña - October



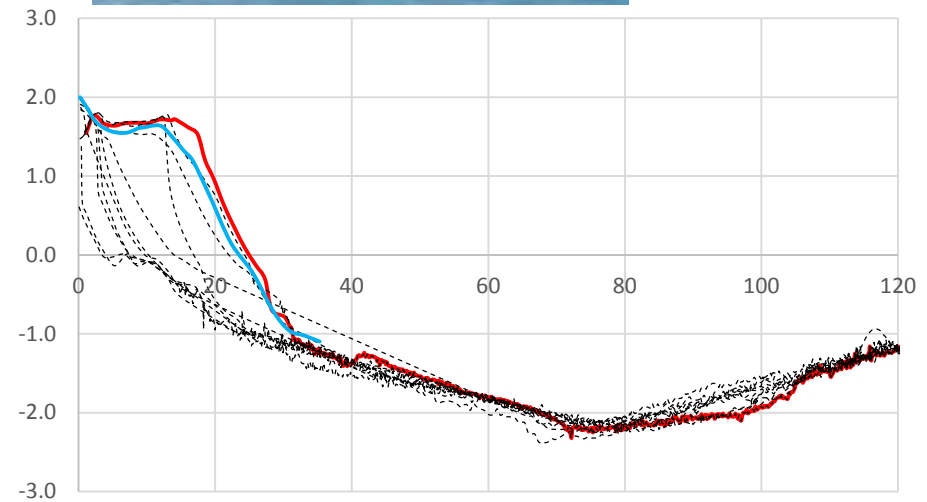
Preliminary Findings – Beach 24



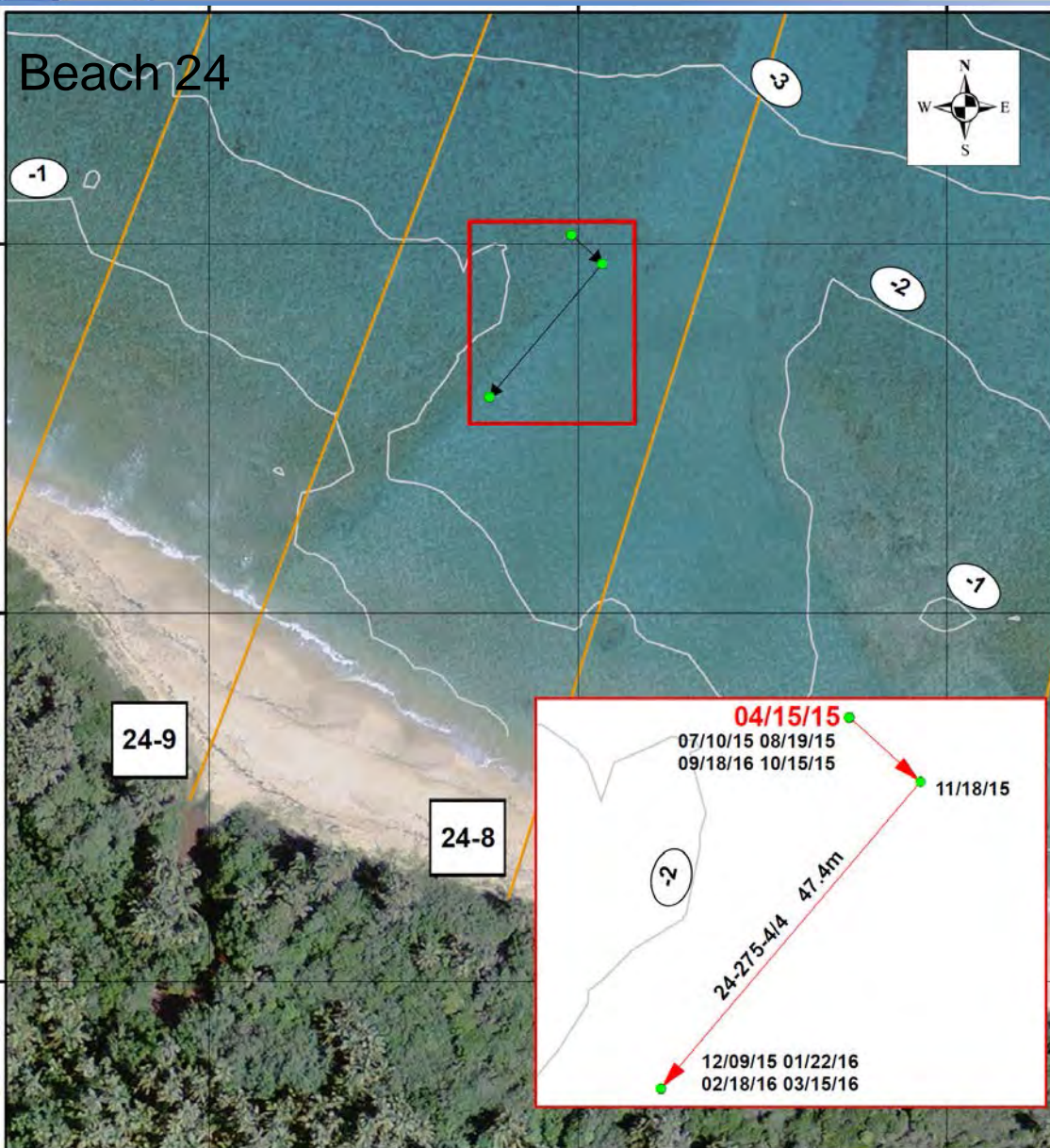
24-11



24-1



Preliminary Findings – Surrogate Tracking



Navy Project Update

SWMU 4 UNDERWATER REMEDIAL INVESTIGATION

Objective and Approach



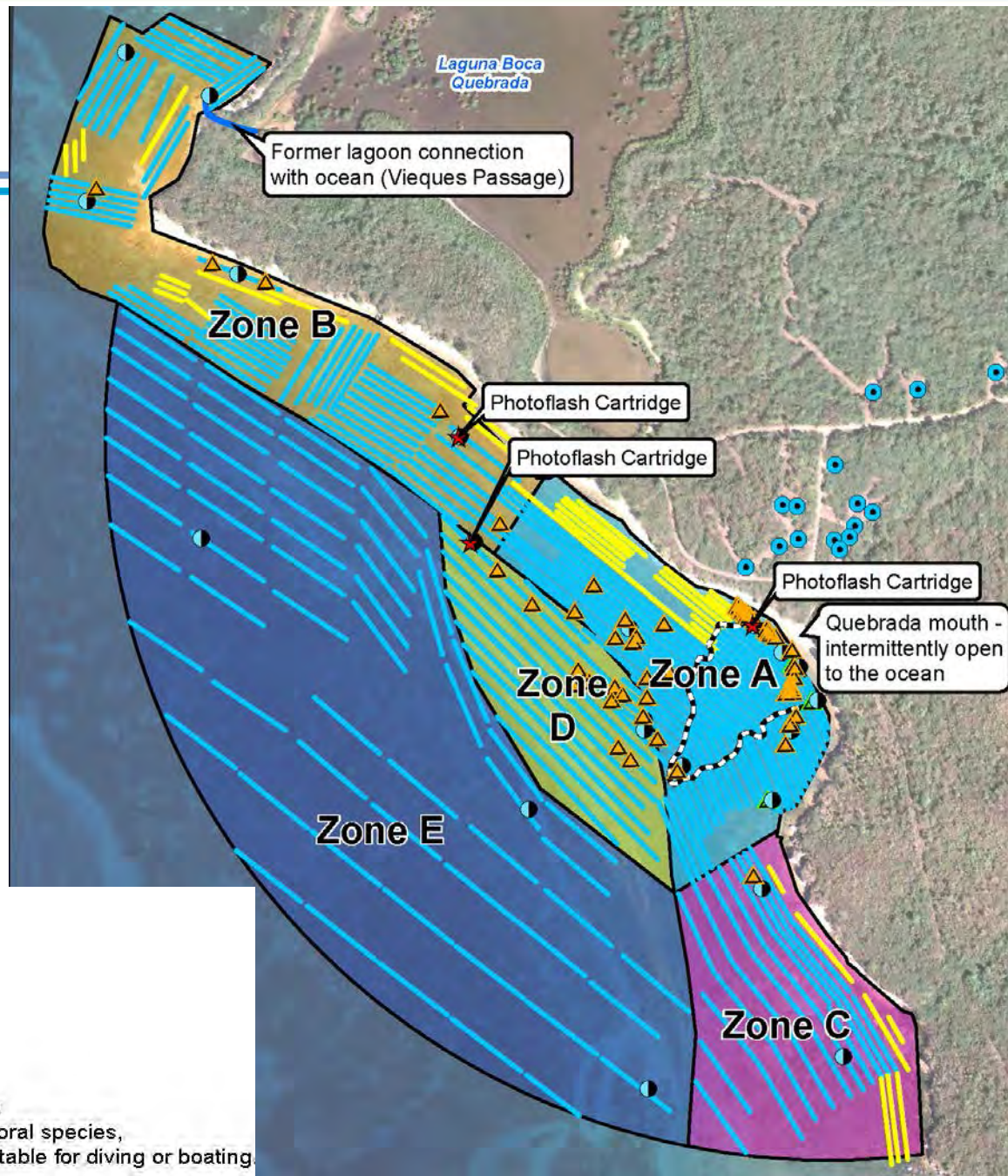
- **Objective**

- **Characterize the nature and extent of potential munitions constituents and assess potential risks to human health and the environment**

- **Approach**

- **Site-wide coverage with emphasis on areas with highest potential for contamination**
 - Where munitions items (MEC) were previously identified
 - Where higher densities of munitions debris (MD) were identified
 - Depositional Areas (areas where sand and other materials may accumulate)

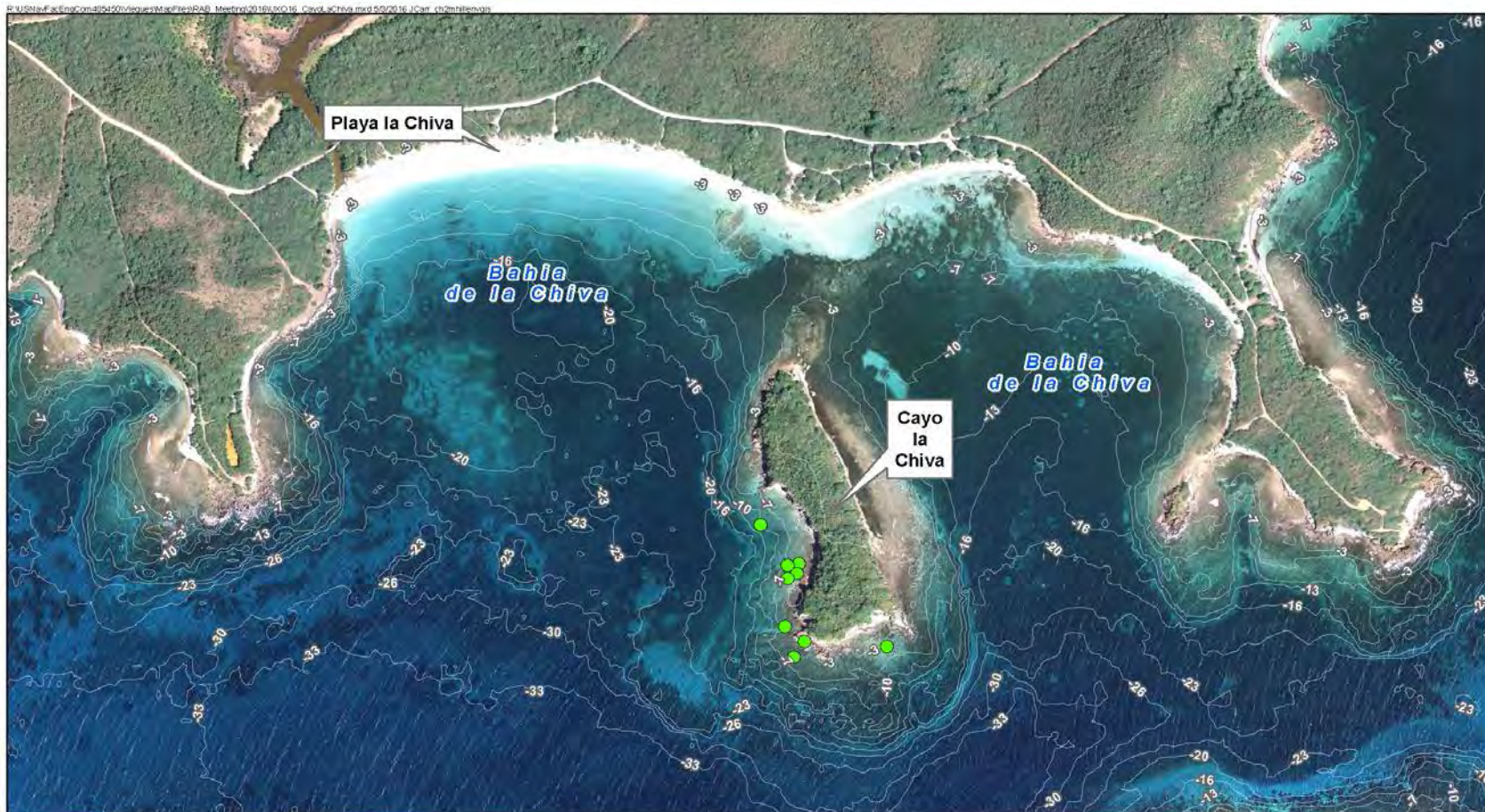
- ★ DMM
- ▲ MD
- Proposed Sediment Locations
- OBOD Pits
- ▲ MPPEH (2012 Site Investigation)
- General boundary of sand fan associated with quebrada
- Transect not surveyed. Area of shallow reef, sensitive coral species, jagged rock, and/or strong surf making conditions unsuitable for diving or boating.



Navy Project Update

CAYO LA CHIVA WORK PLAN

Munitions off Cayo La Chiva



Legend

- Potential Underwater MEC/MPPEH
- Bathymetry Contour - feet



0 500 1,000
Feet

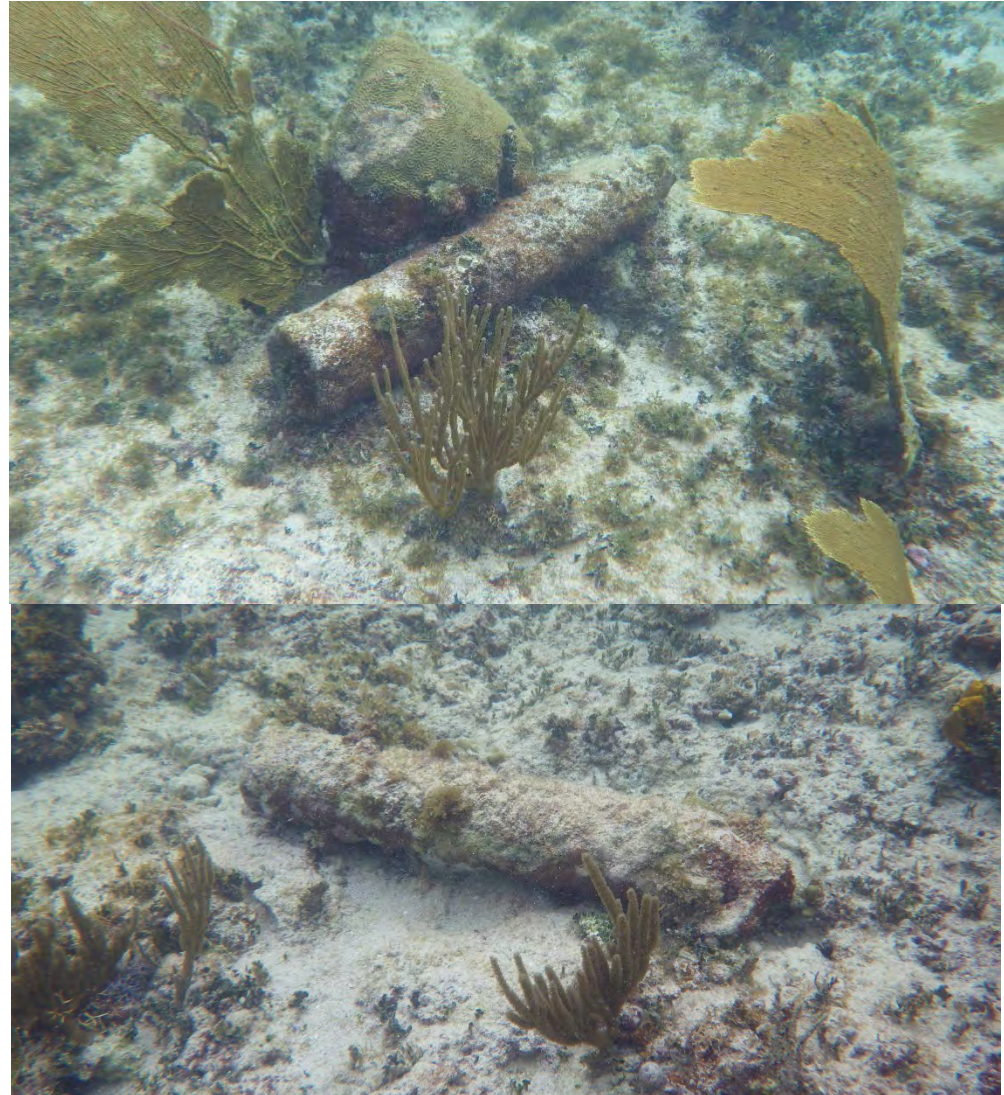
Figure 1-3
Underwater MEC/MPPEH Location Map
Work Plan for NTCRA UXO 16 Adjacent to Cayo La Chiva
Atlantic Fleet Weapons Training Area - Vieques
Vieques, Puerto Rico

CH2MHILL

Non-Time Critical Removal Action



- **Remove 9 potential munitions items**
 - Divers and/or remote equipment
 - If other munitions items are found, they will be removed in same manner (if possible)
- **Removal process will not harm the marine habitat**
- **Work Plan finalized in late 2016**
- **Removal in early 2017**



Navy Project Update

WIDE AREA ASSESSMENT (WAA)

WAA Investigation Objectives

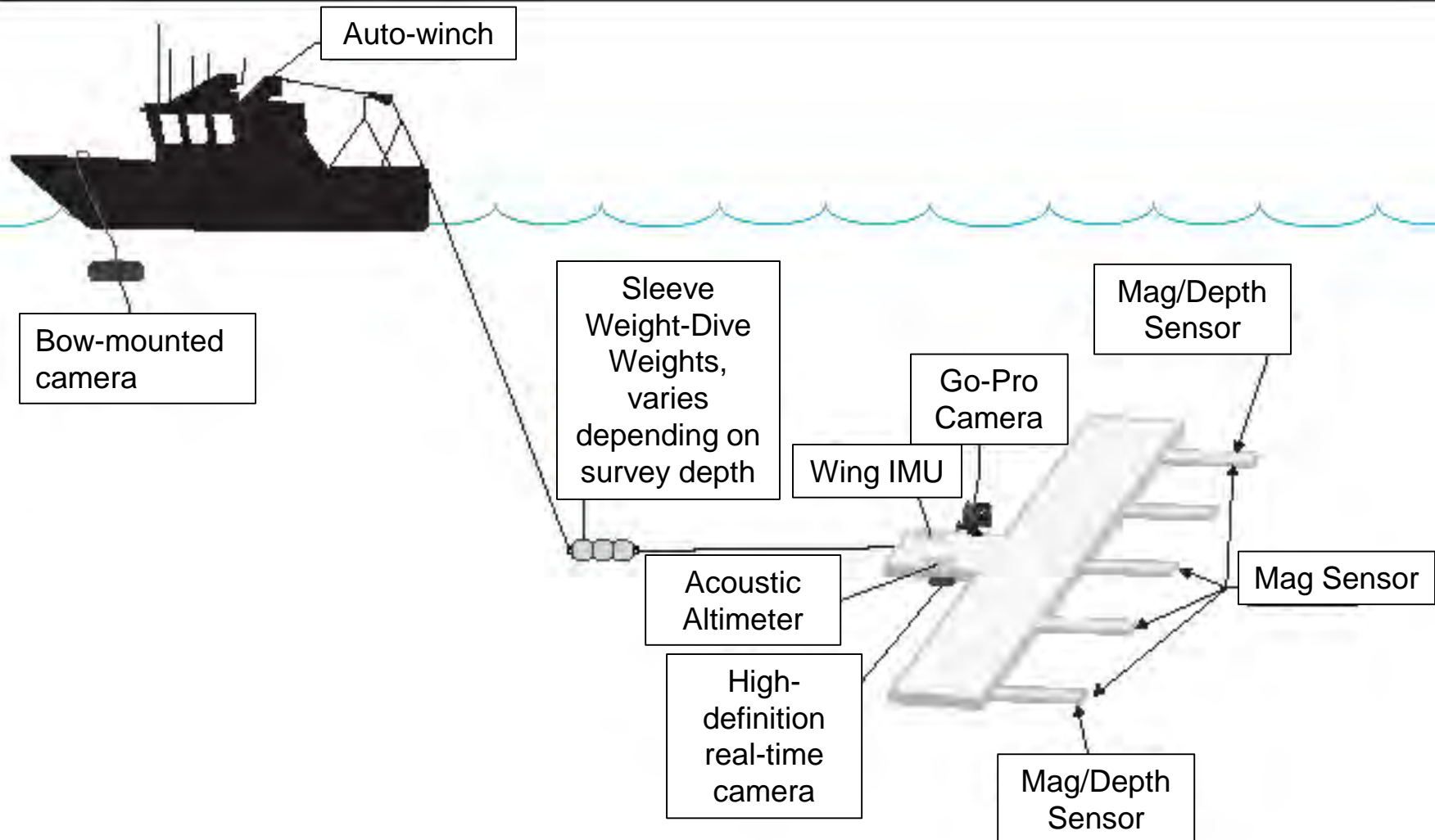


- Characterize the sea floor conditions, specifically ecological habitats
- Look for areas of high density of underwater munitions to help plan focused investigations



Survey Vessel

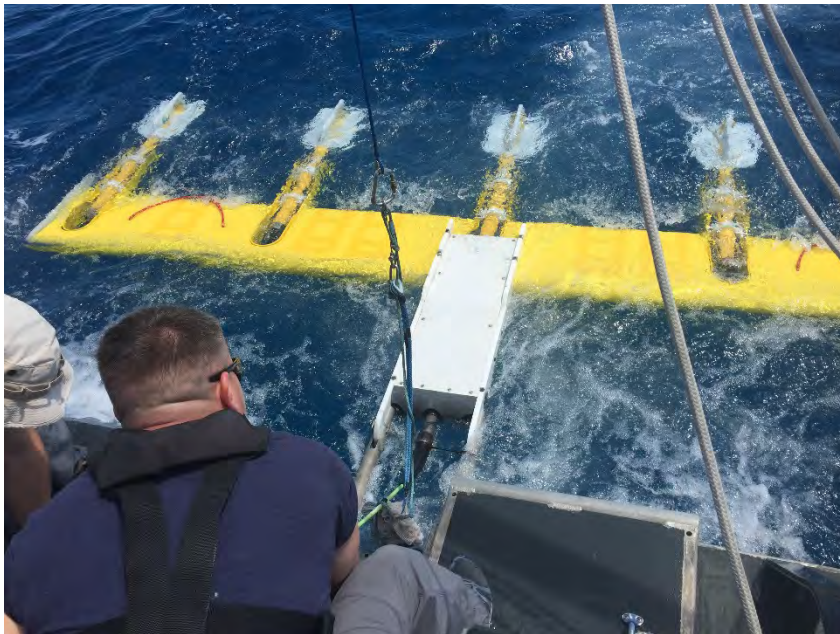
UXO 16 WAA Equipment



UXO 16 WAA Progress



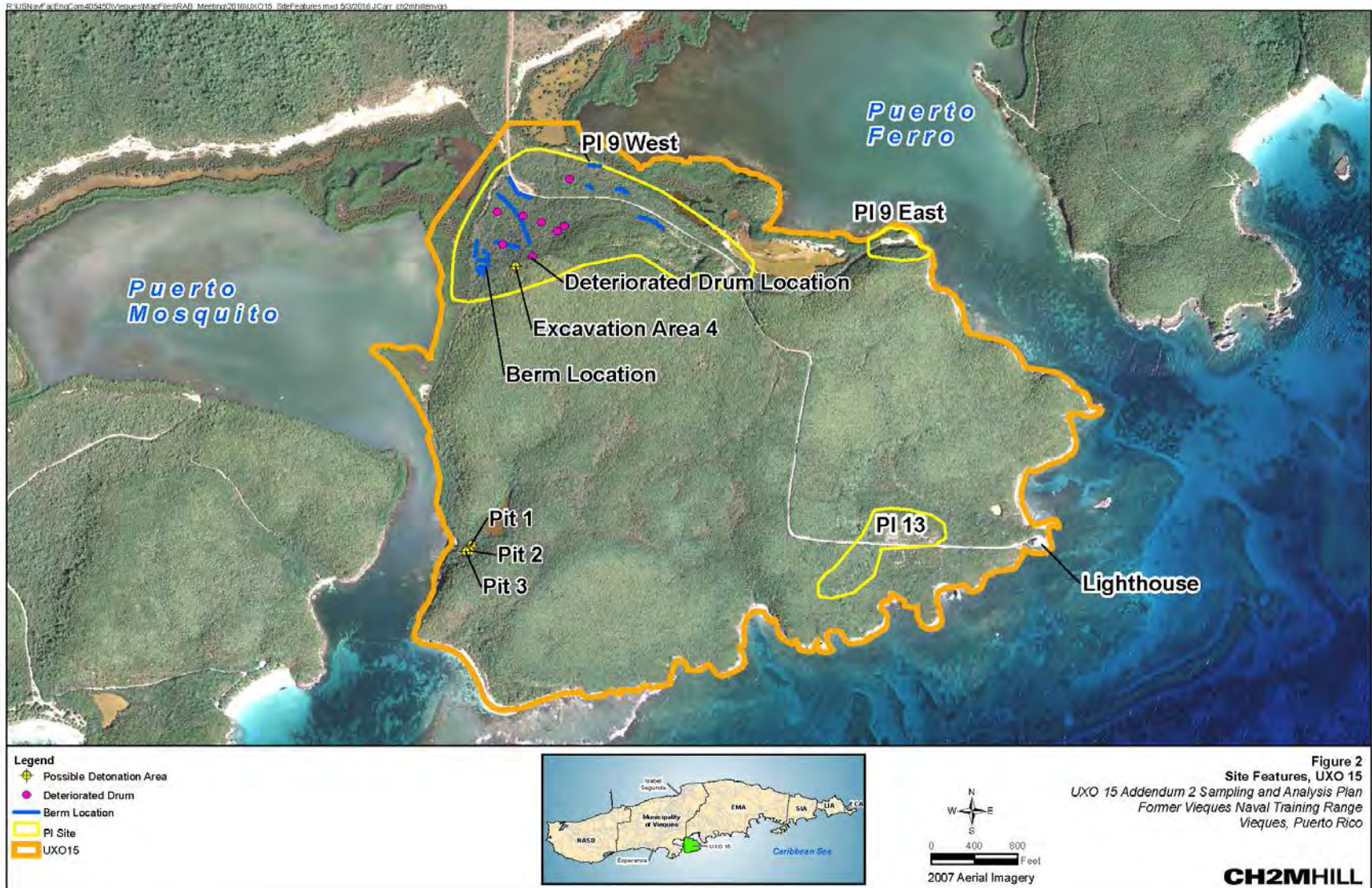
- Approximately 360,000 meters of transects
- Over 61,000 meters of transects surveyed to date
- Estimated to be completed this summer



Navy Project Update

UXO 15 REMEDIAL INVESTIGATION

RI Field Activities (from SAP)



Berms

- Test trenching of berms to determine contents



Berms - Findings



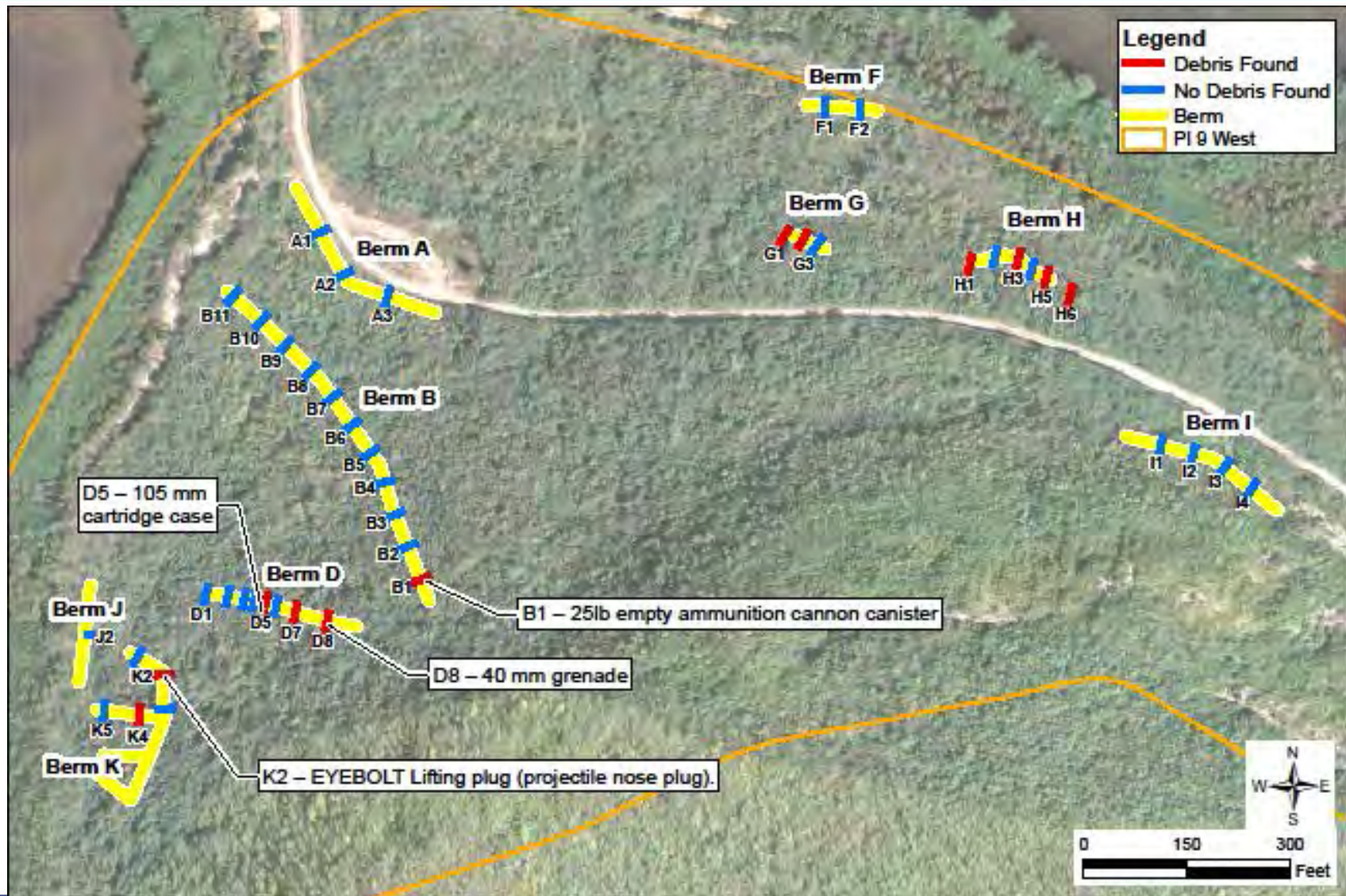
•43 trenches

–31 trenches contained no debris, including all trenches at Berms A, F, I, and J

–12 trenches contained primarily stakes, posts, barbed wire, and metal pallets



Berms – Location of DMM and MD Items



Deteriorated Drum Locations

- Drums removed
- Surface and subsurface soil samples collected at all locations
 - Results pending



–Only MD identified

- Surface and subsurface soil samples collected**

-
- Legend**
- Subsurface Sample Location (Red square)
 - MD Items (Yellow circle)
 - Estimated Pit Size (Green circle)
 - 50' Pit Buffer (Orange circle)
- Sample Units**
- Pit 1 (Red outline)
 - Pit 2 (Yellow outline)
 - Pit 3 (Blue outline)
- The map displays three sample units, each corresponding to a pit. Pit 1 is located in the upper right, Pit 2 in the lower right, and Pit 3 in the lower left. Each pit is defined by a colored outline and a 50-foot buffer. The estimated pit size is shown as a green circle, and the subsurface sample location is marked with a red square. MD items are represented by yellow circles. A north arrow and a scale bar (0 to 40 feet) are provided in the bottom right corner.



Navy Project Update

SITE STATUS, UPCOMING FIELD ACTIVITIES, AND RAB DOCUMENT REVIEW

Planned 2016 Activities at West Vieques



R:\USNavFacEngCom\05450\WestVieques\MapFiles\MISC\Planned2016CleanupActivities_West.mxd 5/3/2016 JCerr_ch2millemap

Planned 2016 Activities

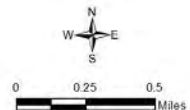
SWMU 6:
Proposed Remedial Action Plan

AOC E:
Remedy Implementation - Monitoring

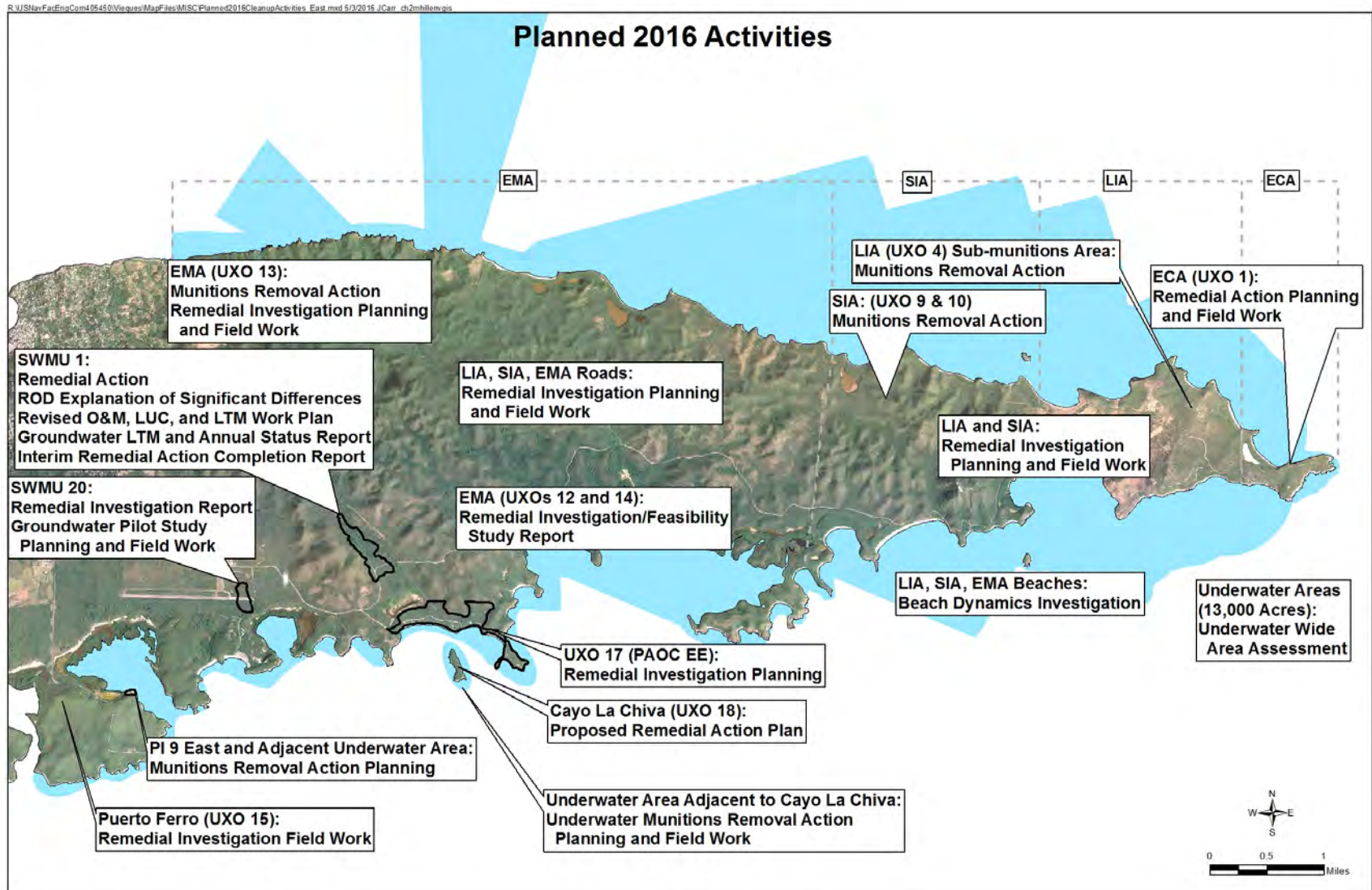
SWMU 4:
After Action Reporting

SWMU 4 Beach:
Beach Dynamics Investigation

Underwater Areas:
Remedial Investigation Planning and Field Work



Planned 2016 Activities at East Vieques



Tentative Schedule for RAB Document Review



- **2nd Calendar Quarter (May-June) 2016**

- Solid Waste Management Unit (SWMU) 20 Remedial Investigation Report
- UXO 16 adjacent to SWMU 4 Remedial Investigation SAP

- **3rd Calendar Quarter (July-September) 2016**

- SWMU 1 Revised O&M, LUC, and LTM Work Plan
- SWMU 4 After Action Report
- SWMU 20 Pilot Study Sampling and Analysis Plan
- UXO 1 Remedial Action Work Plan
- TEMTADS Quality Assurance Project Plan
- UXO 16 adjacent to Cayo La Chiva NTCRA Work Plan
- UXO 18 Proposed Remedial Action Plan (PRAP)
- Fiscal Year 2017 Site Management Plan

Tentative Schedule for RAB Document Review



•4th Calendar Quarter (October-December) 2016

- AOC E Long-Term Monitoring Annual Status Report
- SWMU 1 Interim Remedial Action Completion Report (IRACR)
- SWMU 1 Long-Term Monitoring Annual Status Report
- Proposed Remedial Action Plan (PRAP) for SWMU 6
- UXO 16 adjacent to PI-9 East NTCRA Work Plan
- UXO 17 (PAOC EE) Remedial Investigation Sampling and Analysis Plan Addendum

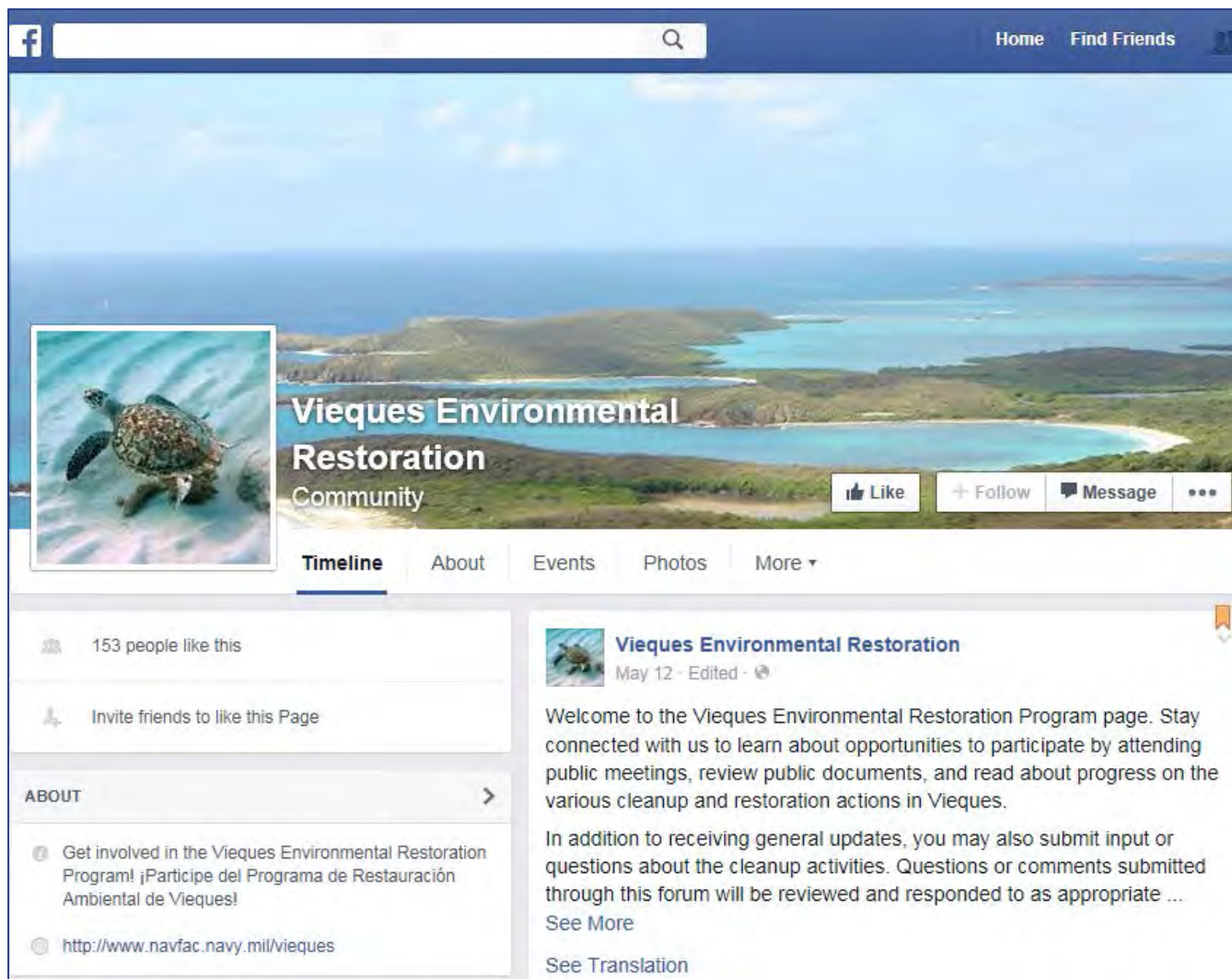
Regulatory Agency Updates

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



This is a screenshot of the Facebook page for the Vieques Environmental Restoration Community. The page header shows the Facebook logo, a search bar, and navigation links for Home and Find Friends. The main cover image is a scenic view of a tropical coastline with turquoise water and green hills. To the left of the cover image is a profile picture of a sea turtle. The page name "Vieques Environmental Restoration Community" is displayed in large white text over the cover image, with interaction buttons for Like, Follow, Message, and a menu icon. Below the cover image are tabs for Timeline, About, Events, Photos, and More. On the left sidebar, it shows that 153 people like the page and provides a link to invite friends. The "ABOUT" section includes a description in English and Spanish, a website URL (http://www.navfac.navy.mil/vieques), and a "See Translation" link. The main content area features a post from the page, dated May 12, with a small sea turtle image and a welcome message about participating in the restoration program.

Vieques Environmental Restoration Community

Like Follow Message

Timeline About Events Photos More

153 people like this

Invite friends to like this Page

ABOUT

Get involved in the Vieques Environmental Restoration Program! ¡Participe del Programa de Restauración Ambiental de Vieques!

<http://www.navfac.navy.mil/vieques>

Vieques Environmental Restoration
May 12 · Edited ·

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](#)

Vieques Administrative Record Documents Available



Did you know?

A screenshot of the NAVFAC Environmental Administrative Record Search web application. The interface includes a search bar, a table of records, and a sidebar with navigation links. The table lists records with columns for Record Number, Type, Name, Date, and Title. The records shown are related to Vieques cleanup and restoration activities.

Record Number	Type	Name	Date	Title
00038	PUBLIC NOTICE	BAKER	01/10/2011	REQUEST FOR PUBLIC NOTICE REGARDING COMMUNITY ACTIVITIES, LITIGATION AND REMEDIATION ACTIONS, REQUEST FOR PUBLIC NOTICE
00039	REPORT	BAKER	01/10/2011	FINAL SITE MANAGEMENT PLAN FISCAL YEAR 2011 ATLANTIC FLEET WEAPONS TRAINING AREA REQUEST FOR PUBLIC NOTICE
00040	CORRESPONDENCE	BAKER	01/10/2011	TRANSMITTAL LETTER REQUESTING THE FINAL SITE MANAGEMENT PLAN FISCAL YEAR 2011 ATLANTIC FLEET WEAPONS TRAINING AREA REQUEST FOR PUBLIC NOTICE
00041	PUBLIC NOTICE	BAKER	01/10/2011	PUBLIC NOTICE WITH PUBLIC COMMENTS ON THE ENGINEERING EVALUATION AND COST ANALYSIS FOR A LONG TERM CRITICAL INFRASTRUCTURE ACTION AT ATLANTIC FLEET WEAPONS TRAINING AREA REQUEST FOR PUBLIC NOTICE

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



- **Comments or Questions?**
- **Next Meeting Date: August 2, 2016 (Revised from previously announced date)**
- **If interested in becoming a Vieques Restoration Advisory Board member, contact Madeline Rivera, Navy Vieques Site Manager**
 - Phone: 757-286-6457
 - Email: madeline.rivera@navy.mil