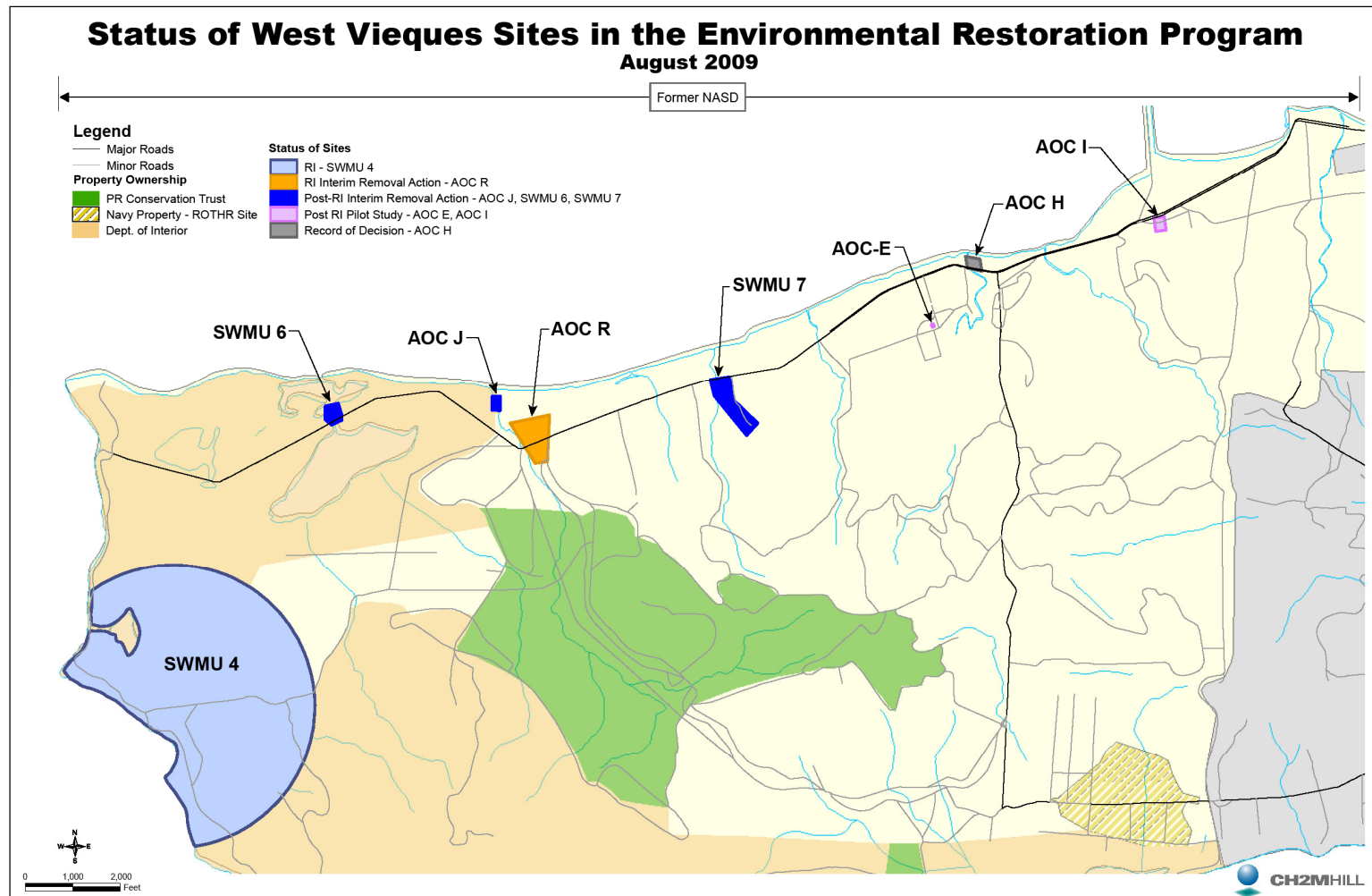


**Vieques
Restoration Advisory Board Meeting
Environmental Restoration Program Update**

October 2010

Western Vieques

West Side Sites



- **Background**
 - Former waste oil underground storage tank
- **Findings:**
 - Relatively low levels of several, primarily petroleum-related contaminants in groundwater
 - No soil contamination posing unacceptable risk
 - Potential for naphthalene to move from soil to groundwater
 - If we take no action, contaminants will naturally decline to acceptable levels within 15 years
- **Ongoing Actions**
 - Pilot Study underway to determine if the cleanup can be accelerated

AOC E – Injecting Oxidant into Soil



- **Background**
 - Former asphalt plant
- **Findings:**
 - Relatively low levels of several, primarily petroleum-related contaminants in groundwater
 - No soil contamination posing unacceptable risk
 - If we take no action, contaminants will naturally decline to acceptable levels within 15 years
- **Ongoing Actions**
 - Pilot Study underway to determine if the cleanup can be accelerated

AOC I – Injecting Oxidant into Groundwater



AOC J and SWMU 7



- **Background**
 - Former waste disposal sites
- **Actions Taken**
 - Removal actions completed in June 2009
- **Path Forward**
 - No Further Action Record of Decision anticipated in FY11

SWMU 7 - Before



SWMU 7 - After



- **Background**
 - Former waste disposal site
- **Actions Taken**
 - Removal action completed in June 2009
 - Removal action altered site from land to lagoon
- **Path Forward**
 - Additional samples will be collected to evaluate new site conditions within the next year

SWMU 6 - Before



SWMU 6 - After



- **Background**
 - Former waste disposal site
- **Activities Completed**
 - Removal action and field investigation completed in 2009
- **Path Forward**
 - Remedial Investigation Report in 2011
 - No Further Action Record of Decision anticipated in 2011

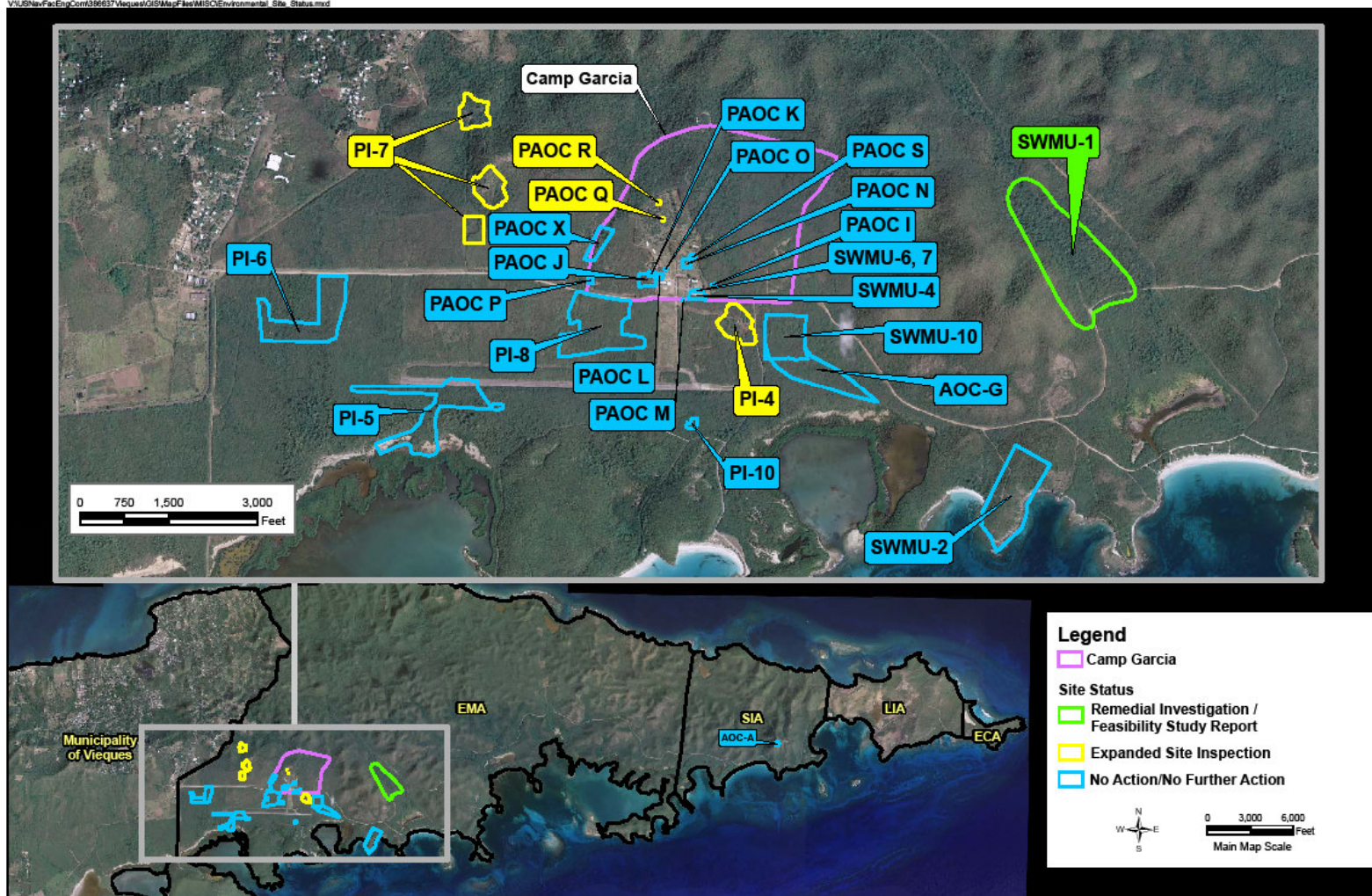
- **Background**
 - Former open burn/open detonation site
- **Activities Completed**
 - Remedial Investigation sampling of soil, groundwater, surface water, and sediment completed
 - Draft Remedial Investigation Report prepared
- **Path Forward**
 - Findings of Draft Remedial Investigation Report being discussed among the agencies to determine the appropriate path forward (for example, feasibility study, additional sampling, etc.)

Eastern Vieques

East Side Sites



V:\USNavFacEngCom\396637\Visquest\GIS\MapFiles\MISC\Environmental_Site_Status.mxd



36 Environmental Sites



- **For 31 of the sites:**
 - Site Inspection completed
 - Final No Action/No Further Action Decision Document issued

SWMU 2	SWMU 4	SWMU 5	SWMU 6	SWMU 7
SWMU 8	SWMU 10	SWMU 12	AOC A	AOC F
AOC G	PI 5	PI 6	PI 8	PI 10
PI 11	PI 20	PAOC I	PAOC J	PAOC K
PAOC L	PAOC M	PAOC N	PAOC O	PAOC P
PAOC S	PAOC T	PAOC U	PAOC V	PAOC W
PAOC X				

The Remaining 5 Sites



- **SWMU 1 – Former Camp Garcia Landfill**
- **PAOC Q – Former Boiler Room in Heat Plant Building 607**
- **PAOC R – Former Boiler Room in Heat Plant Building 617**
- **PI 4 - Former Helicopter Maintenance Area, Trenched Area, Disturbed Area, and Bermed Areas used for Fuel Bladder Storage**
- **PI 7 - Former Quarry, Tar Drum Disposal Area, and Radar Communication Area**

- **Background**

- 41-acre trench-and-fill landfill used from 1954 to 1978 for municipal-type waste

- **Findings**

- PA/SI data and regulatory guidance indicate site should proceed through Streamlined RI/FS and presumptive (containment) remedy

- **Path Forward**

- Streamlined RI/FS submitted to regulatory agencies in October 2010
- Presumptive remedy (containment) Record of Decision anticipated in 2011

- **Background**
 - Former boilers; demolished in 1984; no known or suspected releases
- **Findings**
 - PA/SI sampling performed in mid-2010
- **Path Forward**
 - Evaluate data to determine appropriate path forward

- **Background**
 - Multiple uses and potential contaminant sources
- **Findings**
 - Relatively low levels of several, volatile organic compounds (VOCs) in groundwater
 - No soil contamination posing unacceptable risk
- **Path Forward**
 - Completed third round of SI groundwater sampling in mid-2010 to evaluate trend
 - Evaluate data to determine appropriate path forward

- **Background**

- Former quarry (area still under study)

- **Findings**

- Single detection of semi-volatile organic compound in soil above human health risk level
- Data nearly 10 years old

- **Path Forward**

- Re-sampled area in mid-2010 to determine current soil concentrations
- Evaluate data to determine appropriate path forward

Former Munitions Sites Under Investigation for Contamination



- To date, munitions sites have been investigated only for presence of munitions and explosives of concern (MEC)
- Once the MEC investigations and/or actions have proceeded sufficiently, investigations for contamination in environmental media (e.g., soil) can take place, if warranted
- The four sites listed on the next slides are the first to move from the MEC-focused to the contaminant-focused process

Former Munitions Sites Under Investigation for Contamination



- **UXO-1 (Eastern Conservation Area)**
 - Work Plan for RI anticipated to be finalized and implemented in 2011
- **UXO-13 (Eastern Maneuver Area West)**
 - RI Work Plan development to begin in December 2010

Former Munitions Sites Under Investigation for Contamination



- **UXO-15 (Puerto Ferro)**
 - Work Plan for Site Inspection anticipated to be finalized and implemented in 2011
- **UXO-17 (Other Sites)**
 - No Action Decision Document for PI 14 and PAOC FF anticipated to be finalized in 2011
 - Work Plan for Preliminary Assessment/Site Inspection at PAOC EE to be completed and implemented 2011

Upcoming Documents for RAB Review



- **4th Calendar Quarter (October – December) 2010**
 - Draft Final Remedial Investigation (RI) Report for west Vieques AOC R
 - Draft Final Post-Removal Risk Assessment Report for west Vieques AOC J and SWMU 7
 - Draft Final Work Plan for supplemental post-removal confirmatory sampling at west Vieques SWMU 6
 - Draft Final RI Work Plan for Eastern Conservation Area
- **1st Calendar Quarter (January – March) 2011**
 - Draft Final No Action Decision Document for east Vieques PI 14 and PAOC FF
 - Draft Final Preliminary Assessment/Site Inspection (PA/SI) Work Plan for east Vieques PAOC EE

Questions?