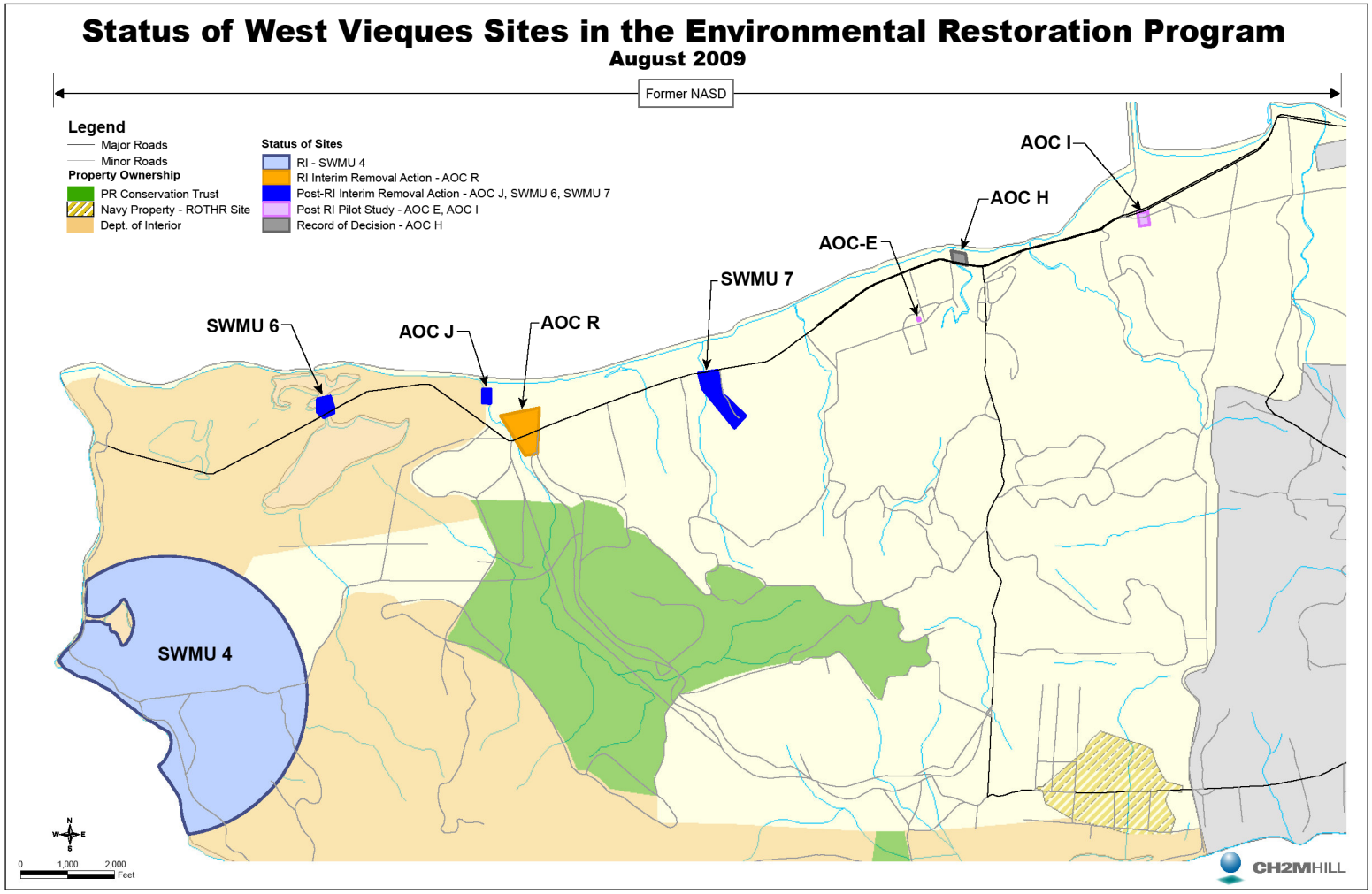
Vieques
Restoration Advisory Board Meeting
Environmental Restoration Program Update

October 2010

Western Vieques

West Side Sites



AOC E

- **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

AOC I

- **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

SWMU 6

- **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

AOC R

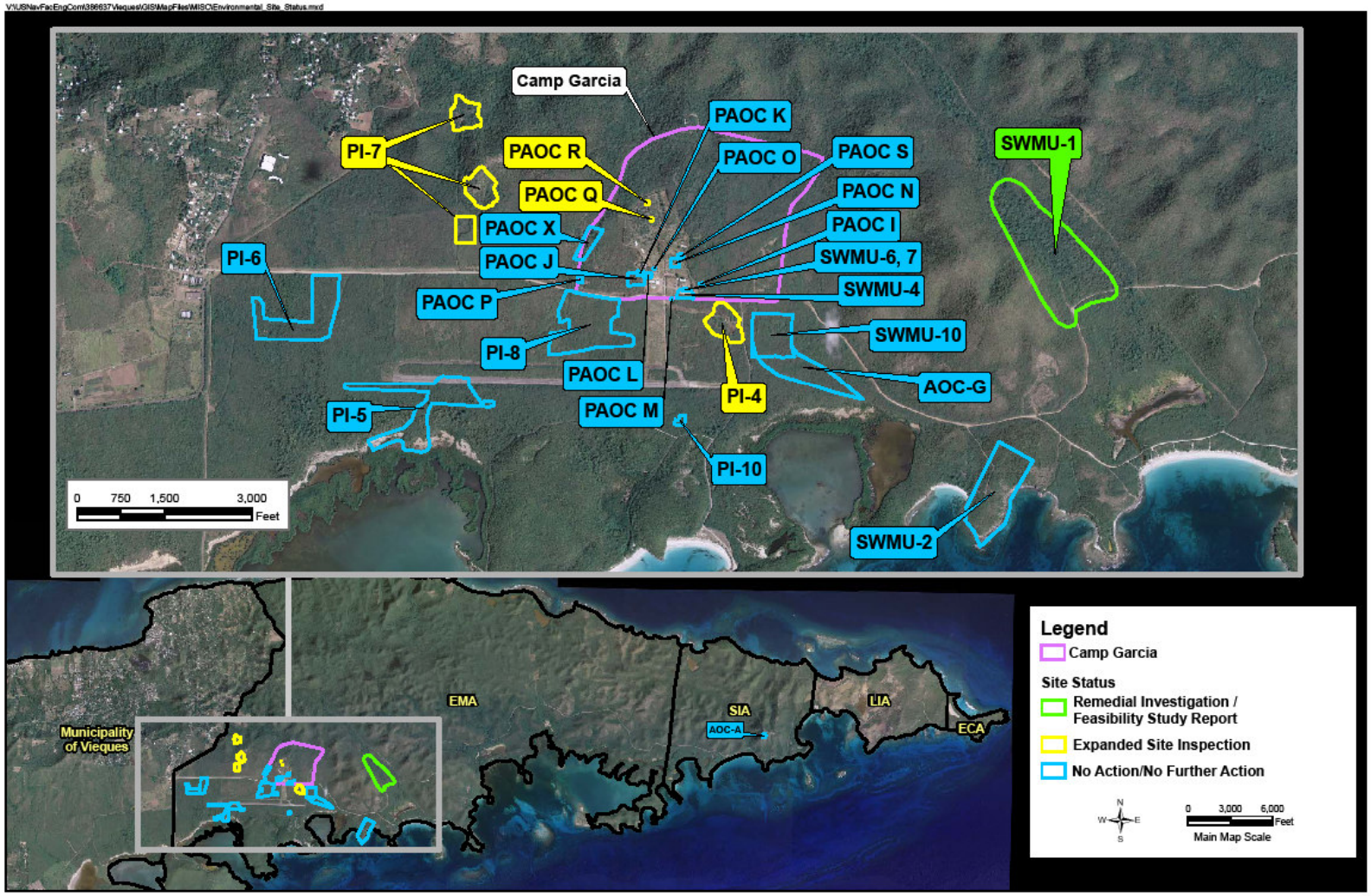
- **Background**
  - Former waste disposal site
- **Activities Completed**
  - Removal action and field investigation completed in 2009
- **Path Forward**
  - Remedial Investigation Report in 2011
  - No Further Action Record of Decision anticipated in 2011

SWMU 4

- **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



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

SWMU 1

- **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

PAOC Q/R

- **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

PI 4

- **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

PI 7

- **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?