



# **Restoration Advisory Board Meeting**

**RAB Meeting #26  
August 25, 2010**

Vieques, Puerto Rico



# Agenda



6:00 – 6:15	Welcome and Introductions	Kevin Cloe/Navy Co-chair
6:15 – 7:00	Ecological Characterization of the Marine Resources of Vieques	Diane Wehner/NOAA Dave Whitall/NOAA
7:00 – 7:45	Site Inspection/Expanded Site Inspection	Brett Doerr/CH2M HILL
7:45 – 8:00	Break	
8:00 – 8:20	Fish and Wildlife Service Update	Rich Henry/USFWS
8:20 – 8:40	Regulatory Update	Wilmarie Rivera/PREQB Danny Rodriguez/EPA
8:40 – 8:50	Munitions Program Progress	Daniel Hood /Navy
8:50 – 9:00	Questions and Comments from the Public	Members of the Public





# Site Inspection/Expanded Site Inspection



# General CERCLA Process



- Preliminary Assessment/Site Inspection
- Remedial Investigation
- Feasibility Study
- Proposed Plan
- Record of Decision
- Remedy Design and Implementation



# Preliminary Assessment/Site Inspection Decision Process



- Step 1 – Determine the site's CERCLA eligibility
- Step 2 – Perform data quality evaluation
- Step 3 – Identify potential contaminants
- Step 4 – Determine if contaminants are potentially associated with a release subject to CERCLA regulation



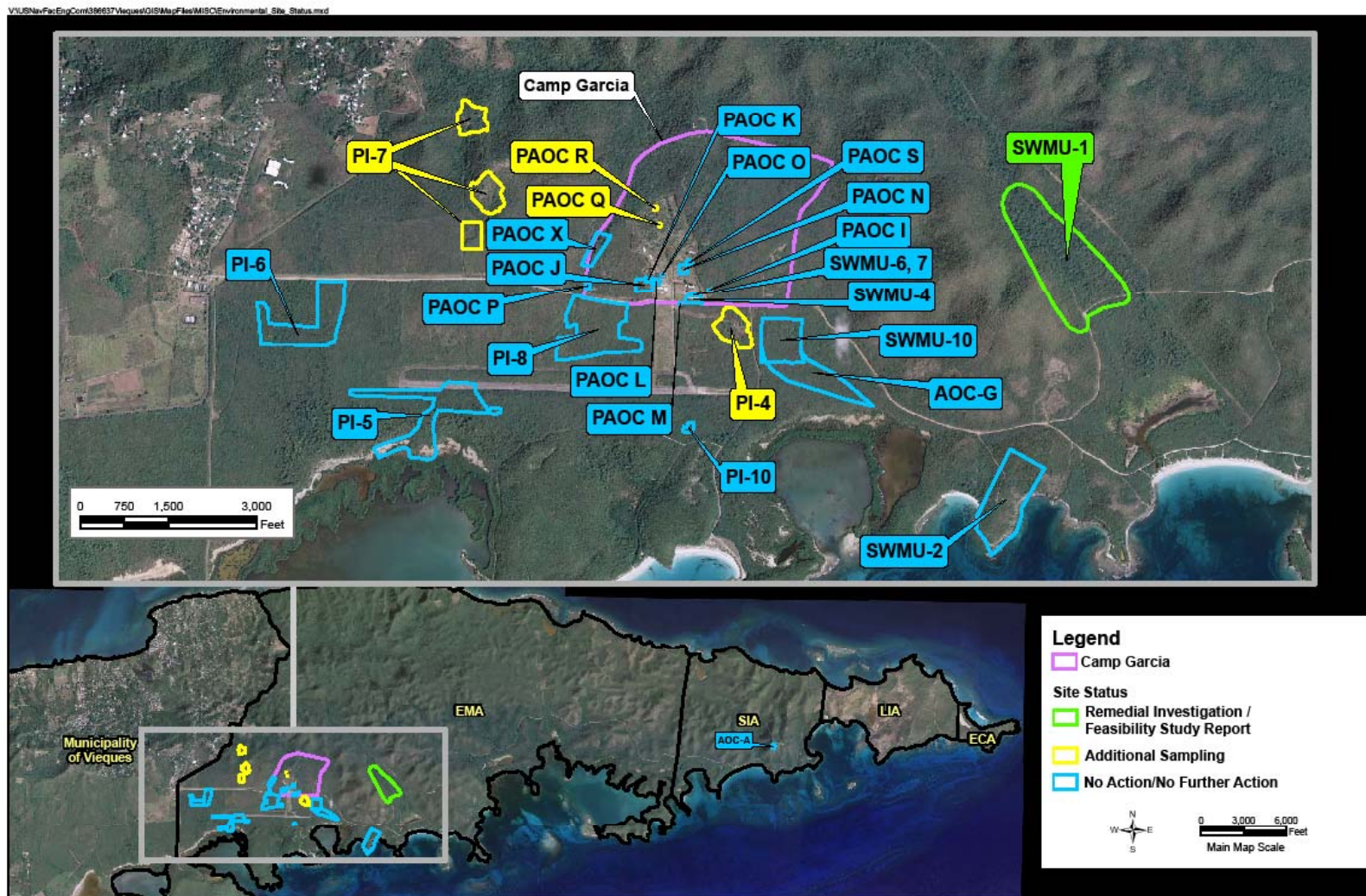
# Preliminary Assessment/Site Inspection Decision Process



- Step 5 – Determine if contaminants exceed conservative screening values
- Step 6 – Evaluate data to determine if no action, no further action, action, or further investigation is warranted
  - Step 6a – Collect additional data, if necessary to complete Step 6
- Step 7 – Determine if information and data available for site are sufficient to support decision



# 26 East Vieques Consent Order and PI/PAOC Sites





# Status of 26 East Vieques Consent Order and PI/PAOC Sites



- Remedial Investigation/Feasibility Study
  - SWMU 1 – Camp Garcia Landfill





# Status of 26 East Vieques Consent Order and PI/PAOC Sites



- Expanded Site Inspection
  - 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



# Status of 26 East Vieques Consent Order and PI/PAOC Sites



- No Further Action (Potential Source of Contamination Removed)
  - AOC A – Diesel Fuel Fill Pipe Area
  - PAOC L – Former Paint and Transformer Storage Area
  - PAOC P – Former Water Treatment Pumphouse
  - PAOC X – Debris Area in Ephemeral Stream



# Status of 26 East Vieques Consent Order and PI/PAOC Sites



- No Action
  - SWMU 2 – Fuels Off-loading Site
  - SWMU 4 – Waste Areas of Building 303
  - SWMU 6/7 – Waste Oil and Paint Accumulation Areas
  - SWMU 10 – Sewage Treatment Lagoons
  - AOC G – Pump Station and Chlorination Building
  - PI 5 – Former Airfield and Associated Ditches
  - PI 6 – Former PCB Storage Pad and Vehicle Wash Pad
  - PI 8 – Former Motor Pool Maintenance Area



# Status of 26 East Vieques Consent Order and PI/PAOC Sites



- No Action, continued
  - PI 10 – Former Wastewater Leach Field
  - PAOC I – Former Power Plant and Mechanics Shop
  - PAOC J – Former Vehicle Maintenance Area
  - PAOC K – Former Wash Rack
  - PAOC M – Former Fuel Facility
  - PAOC N – Former Fuel Farm and Filling Station
  - PAOC O – Former Boiler Room in Heat Plant Building 238
  - PAOC S – Former POL Pipeline and Power Plant



## SWMU 1





## SWMU 1





## PAOC Q/R









PI 7





## AOC A





# PAOC L





# PAOC P





# PAOC X





# SWMU 2





## SWMU 6/7





# SWMU 10 and AOC G



## Legend

□ SWMU 10 Area

■ AOC G Area

⊕ PA/SI Monitoring Well Location

The sample designations for the monitoring wells and surface and subsurface soil samples collected during the 2004 PA/SI are preceded by "CGW10" (e.g. MW01 - CGW10MW01, SS-05 - CGW10SS05, and SB-05 - CGW10SB05)





PI 5





# PAOC I





## PAOC M





## PAOC O







**Questions?**





# **Summary of Expanded Range Assessment/Site Inspection (ERA/SI) Report**



# Summary of ERA/SI Report



- Investigations Completed- 17 Munitions Response Sites
  - Review of historical munitions records
  - Interviews with former workers at the site
  - Removal of surface munitions and explosives of concern along roads and beaches
  - Magnetometer assisted visual surveys using transects
  - Historical aerial photograph analysis
  - Aerial magnetometer survey
  - Geophysical surveys of roads and beaches



# Summary of ERA/SI Report



- Recommendations
  - 11 Sites recommended for Interim Removal Actions to reduce immediate risk
    - UXO 1- Eastern Conservation Area
    - UXO 2- LIA Beaches
    - UXO 3- LIA Roads
    - UXO 4 -: LIA Interior
    - UXO 5 - SIA Restricted Roads
    - UXO 6 - EMA/SIA Public Roads
    - UXO 7 - EMA/SIA North Beaches
    - UXO 8- SIA South Beaches
    - UXO 9 -SIA Exterior
    - UXO 10- SIA Interior
    - UXO 11- EMA Public Roads.



# Summary of ERA/SI Report



- Recommendations (continued)

To further characterize the nature and extent of MEC and  
Assess the risk to human health and the environment

- 4 Sites containing MEC recommended for Remedial Investigations / Feasibility Studies (RI/FS)

- UXO 12- EMA Interior
- UXO 13- EMA West
- UXO 14- EMA South
- UXO 16- Underwater Areas



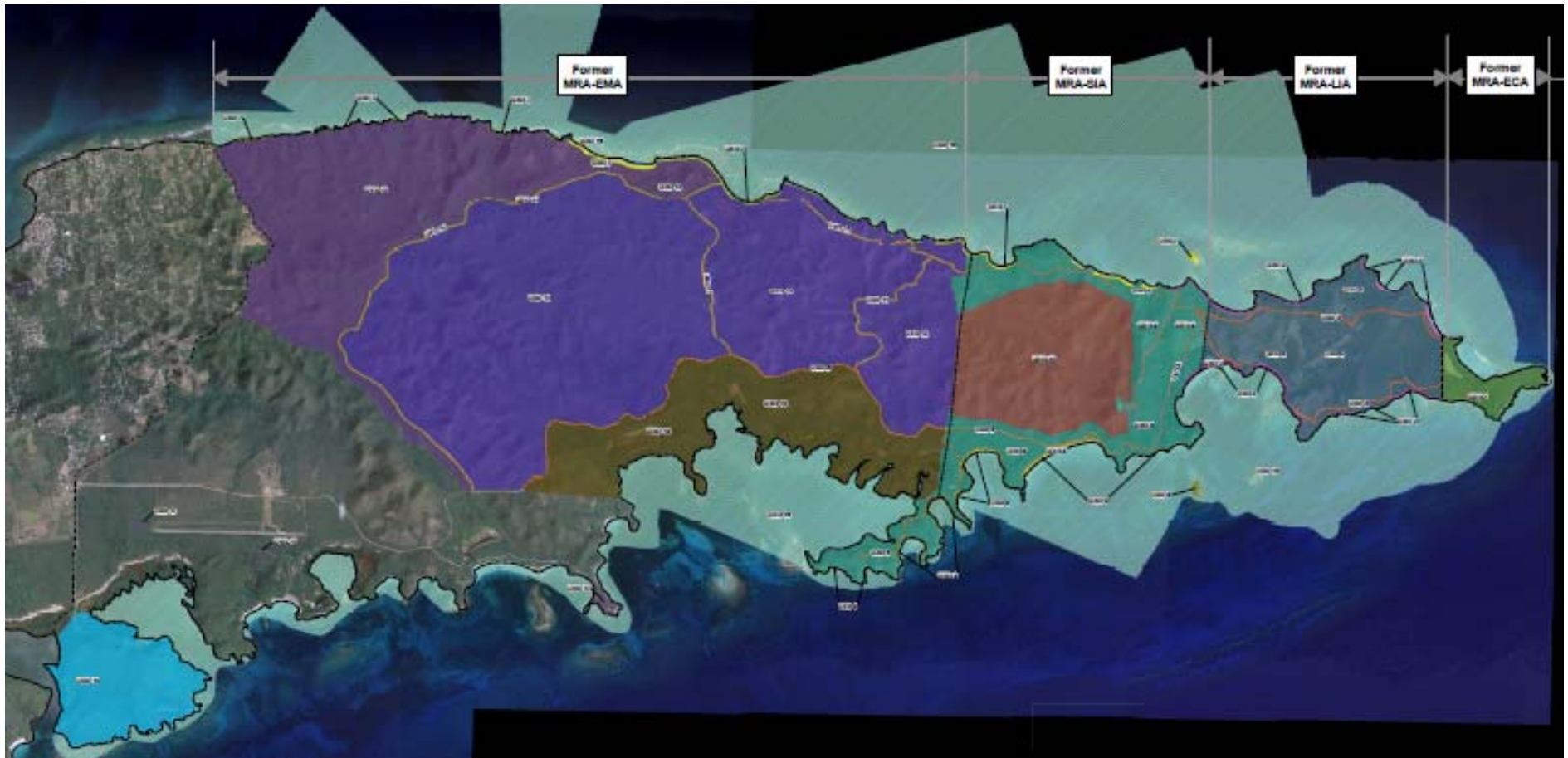
# Summary of ERA/SI Report



- Recommendations (continued)
  - 3 Sites recommended for additional investigations to determine if MEC is present:
    - UXO 14- EMA South
    - UXO 15- Puerto Ferro
    - UXO 17- Other Areas
  - Part of one site (UXO-17) recommended for No Further Action, MEC unlikely present
    - PI -14, PAOC FF



# Map of Munitions Response Sites







**Questions?**