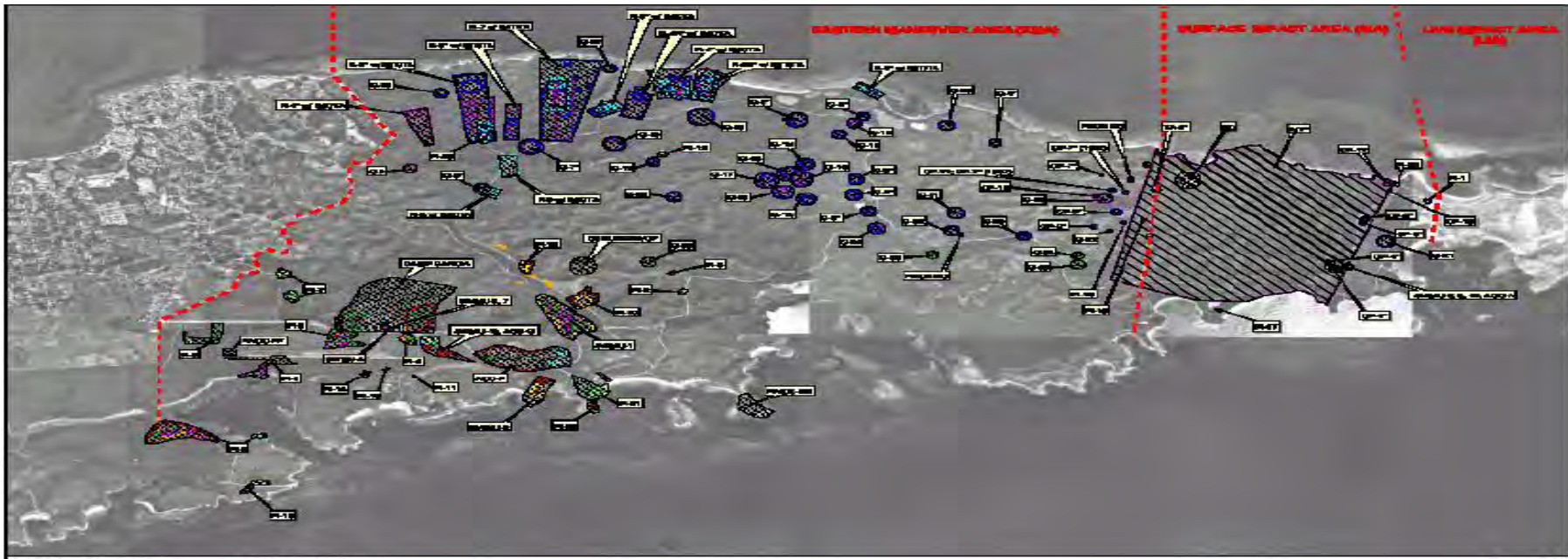


An aerial photograph of a coastal area. In the foreground, a hill with sparse vegetation features a white lighthouse and several small white buildings. The middle ground shows a mix of green and brown land, with a sandy beach and turquoise water. In the background, there are more landmasses and a blue sea under a cloudy sky.

Munitions and Environmental Program Update Former VNTR

Former Vieques Naval Training Range: Transferred 2003

Former Naval Ammunition Support Detachment:
Transferred 2001



Why Is So Much of Vieques Closed ? Because of the Explosive Safety Risk

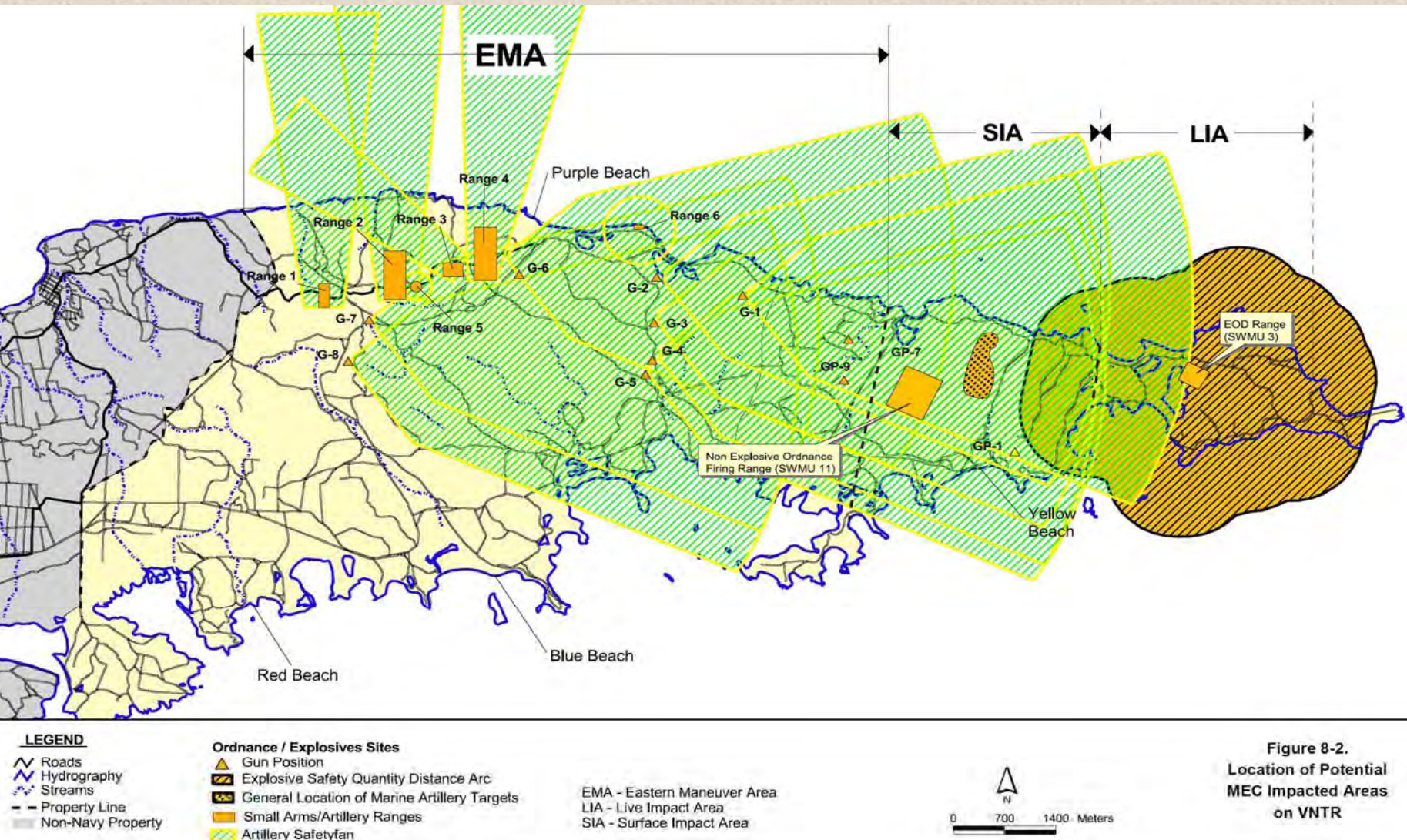
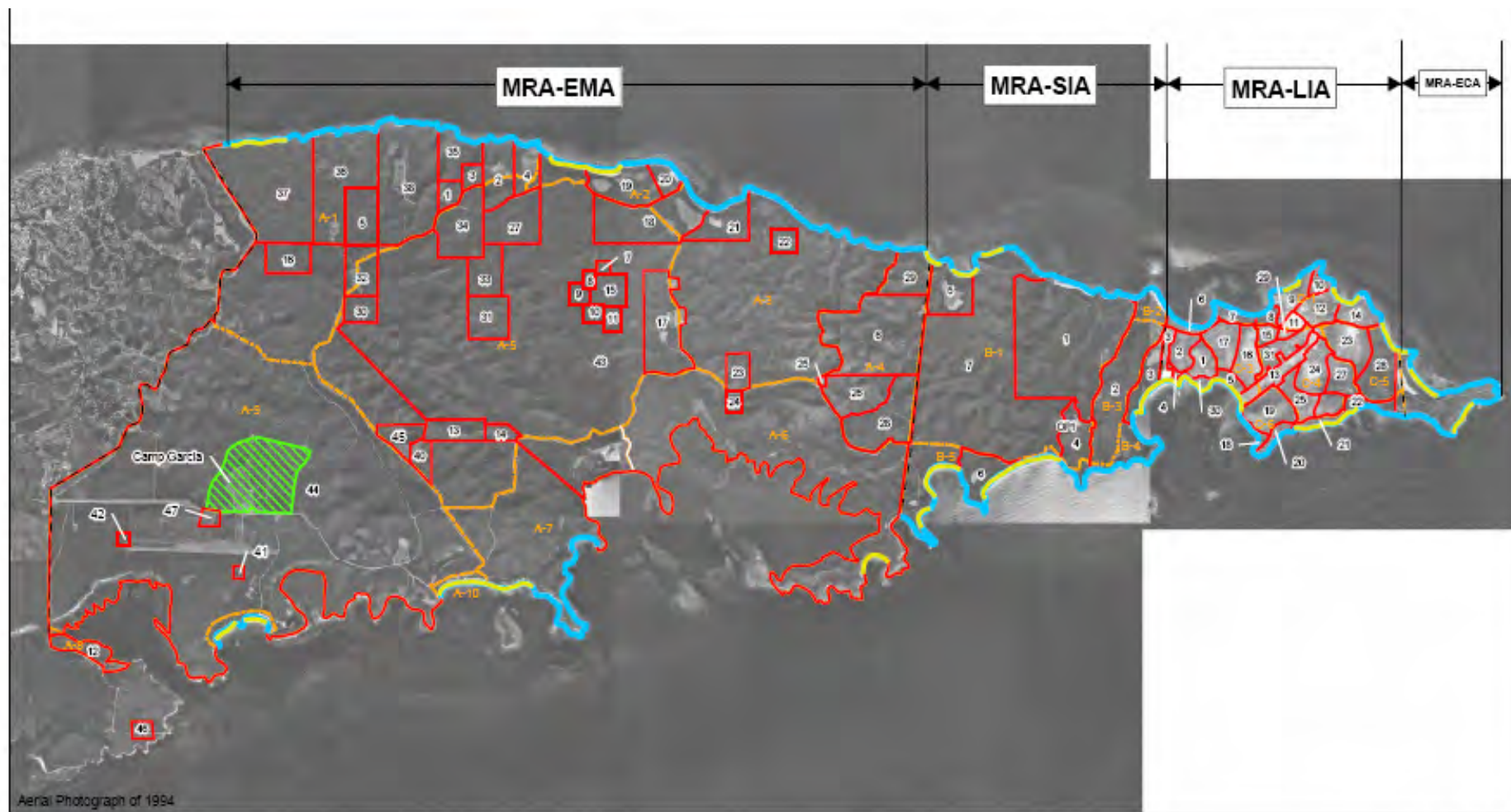


Figure 8-2.
Location of Potential
MEC Impacted Areas
on VNTR

Munitions Response Areas and Munitions Response Sites



Legend

- Beach MRS
- Sea Turtle Nesting Areas
- 1 MRA-LIA-SIA (C)
- 1 Parcel Boundary and Designation

Notes :

- MRS Numbers Do Not Signify Priority
- EMA-MRS 43 and MRA-MRS 7 include all terrestrial area within the range fan(s) not designated as other MRSs.
- EMA-MRS 44 includes all terrestrial area outside of range fan(s) not designated as other MRSs.

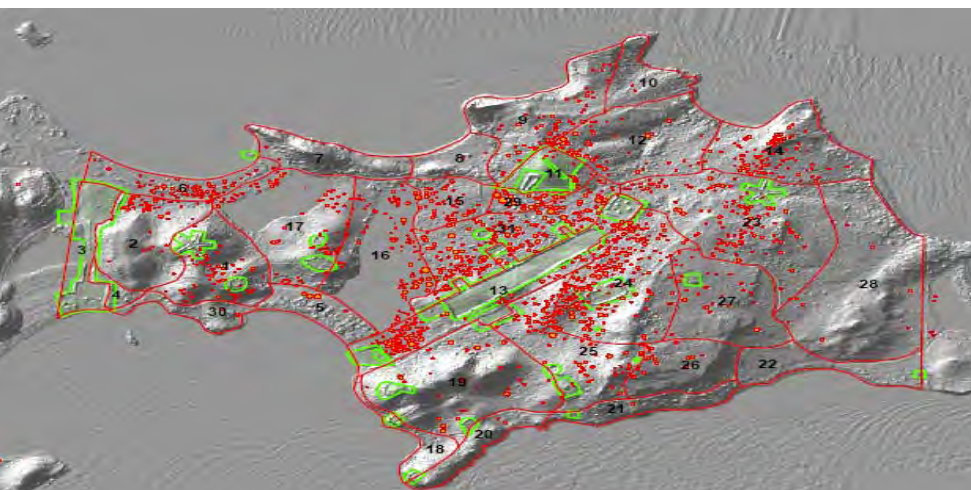


0 1,000 2,000 3,000
Meters

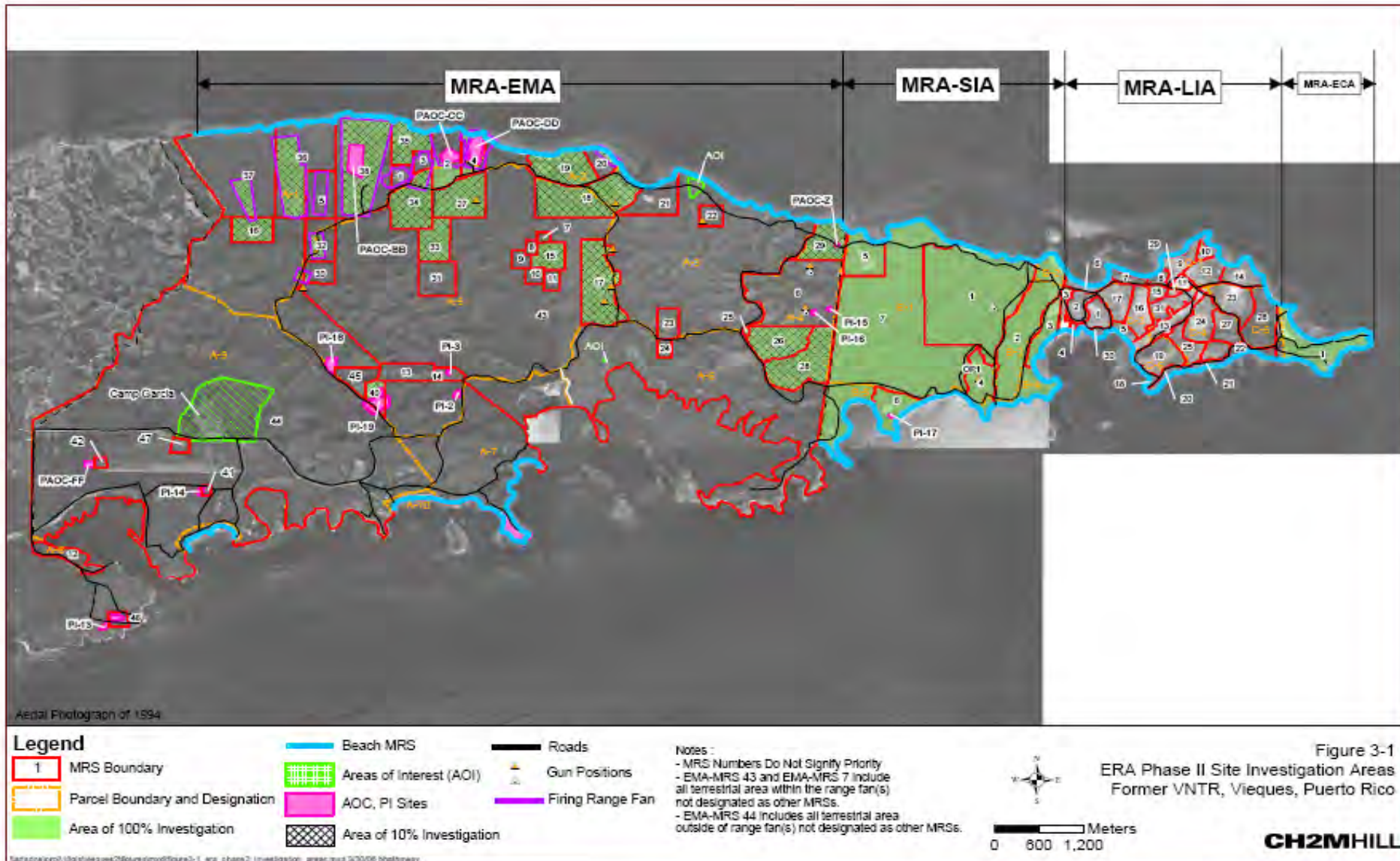
Figure 2-2
Former VNTR Site Map
Former VNTR, Vieques, Puerto Rico

Site Inspection Phase I

- ❖ Munitions and Explosives of Concern (MEC) surface clearance of all beaches (65 acres)
 - 62 live UXO items removed
- ❖ Expanded Range Assessment/Site Inspection (ERA/SI)
 - 27 of 62 Munitions Response Sites (MRS) investigated
- ❖ Light Detection and Ranging Aerial Survey Conducted for Entire VNTR



Phase II Site Inspection Areas to be investigated in FY07



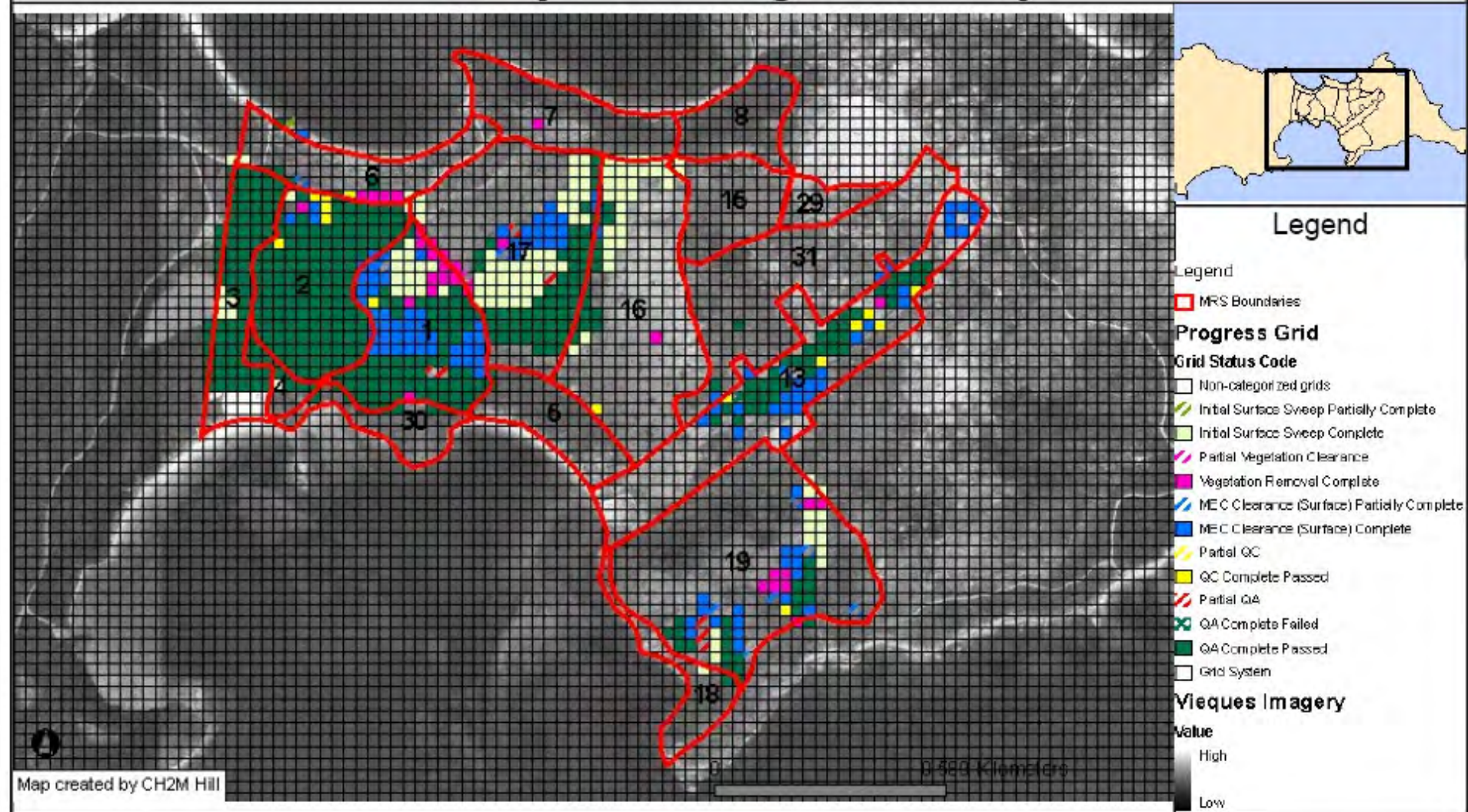
Time Critical Removal Action

- ❖ 240 acres surface cleared in the Live Impact Area
- ❖ Items located requiring detonation as of 10/06/06
 - Live Bombs - 84
 - Inert Bombs - 582
 - Live Projos/Mortars - 1246
 - Inert Projos/Mortars - 1319
 - Live Rockets - 64
 - Inert Rockets - 4
 - Flares-Pyrotechnics - 35
 - Live sub munitions - 10
 - Inert sub munitions - 7
- ❖ More than 125,000 munitions related items have been removed
- ❖ 3,482 items have been blown in place = 10.6 tons of HE



Areas Of Live Impact Area That Have Been Surface Cleared

Vieques Progress Map



Time Critical Removal Action Issues

- ❖ **Trespassing:** The Navy has implemented “boat patrols” on north and south sides of LIA to inform and protect the public during operations
- ❖ **Air pollution:** Air monitoring has been conducted to evaluate potential releases from detonations



Munitions Related Scrap Processing

- ❖ Established an on-site processing facility for munitions debris and range related debris to insure that all scrap metal shipped off site is free of explosives



Munitions Scrap Processing On Vieques



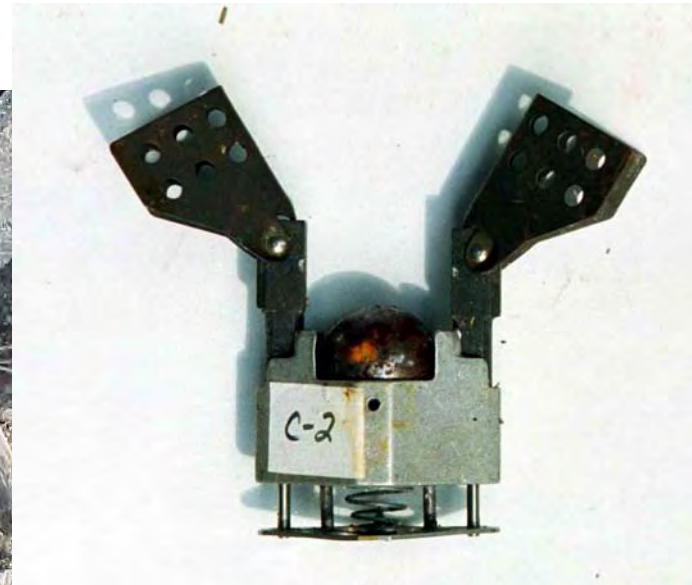
Munitions Scrap Program

Quantities Processed (Aug 23rd)

	Wt. on Contract (tons)	Tons Processed	% Complete
Inspection & Recovery of RRD	540	13.5	2.5%
Inspection & Recovery of MD	810	29	3.5%
Shearing/Cutting of RRD	540	13.5	2.5%
Shearing/Cutting of MD	405	17	4%
Shredding of MD	135	0	0%
Waterjet Cutting of MD	67	0	0%
Crushing of MD using Hammermill	203	0	0%
Flashing of MD	810	0	0%
5X Certification	1350	0	0%
Shredding/Waterjet Cutting*	50	0	0%
Flashing of MD*	200	0	0%
5X Certification*	200	0	0%

* - from Pilot Program

Problems: Cluster Bombs, aka, Submunitions



Lots and Lots of Submunitions



Problems

- ❖ How does a UXO Technician I work in an area with submunitions
- ❖ Only way to clear vegetation is by hand, or with hand held tools
- ❖ Submunitions are sensitive and hard to see under the vegetation
- ❖ Some UXO Tech I and sweepers are from Vieques



Answer, Controlled Burning

There have been several uncontrolled burns on the LIA due to the Blow In Place operations, this has helped reduces explosive risk by exposing munitions hidden by vegetation

This technique may be the only way to clear some parts of the LIA



Potential Air Monitoring locations

Proposed Monitoring Locations

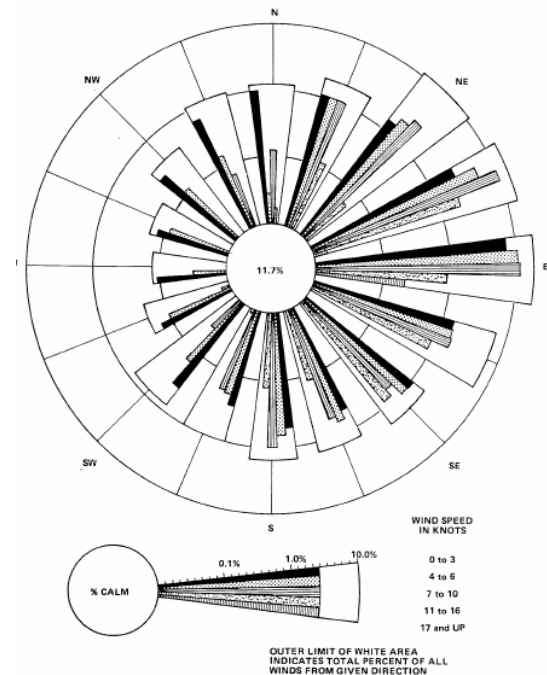


FIGURE 2-1
ANNUAL WIND ROSE AT ROOSEVELT ROADS, PR
(1/73 - 12/77)

SOURCE: Seasonal and Annual Wind Distribution by Pasquill Stability Classes, STAR Program
Station No. 11625 Roosevelt Roads, P.R. for Period 1/73-12/77 (80 obs/Day)
National Climatic Center, Federal Building, Asheville, North Carolina, May 22, 1978

Other MEC Issues

Land Mines:
While not common these items have been found on Vieques. Fortunately they have been practice mines



Underwater UXO

MEC is found underwater not just north and south of the LIA, but also along the north coast in association with the various small arms ranges.



Is The Threat To Human Health Real

- In 2004 a tourist snorkeling around Blue Beach, one of the areas opened to the public, returned to his hotel with an item he found. The hotel called the FWS Refuge office and we notified the Navy. The item was a live illumination round and it was taken to the LIA for disposal.
- The tourist could not show where he was snorkeling on a map, but did tell us that there were more items out there in the water.



Support Actions

- ❖ Completed biological assessment for LIA to establish mitigation measures to avoid impacts to sea turtles and threatened/endangered plant species during munitions response actions
- ❖ Expanding biological assessment to EMA, SIA, and ECA

USFWS

PRDNER



Economics

- ❖ **Economic impacts from training locals residents**
 - Over \$300,000 in salaries paid to local residents since November 2000
- ❖ **Over \$900,000 paid to Puerto Rican contractors and support personnel**
- ❖ **Average of \$90,000 to \$100,000 per month is spent for local services (housing, fuel, food)**
- ❖ **Munitions Response Program Funding**
 - Fiscal Year 2005 - \$ 8 million
 - Fiscal Year 2006 - \$20 million
 - Fiscal Year 2007 - \$20 million (projected)

Future Actions

- ❖ **Continue time critical removal action for remainder of LIA and ECA**
- ❖ **Conduct Phase II Site Inspection**
- ❖ **Investigate 35 identified munitions response sites**
 - ❖ Perform digital geophysical mapping of roads and beaches identified in the U.S. Fish and Wildlife Service land use plan
- ❖ **Conduct removal action for surface and subsurface munitions and explosives of concern at the roads and beaches identified in the U.S. Fish and Wildlife land use plan**
- ❖ **Train additional sweep personnel**
- ❖ **Train additional UXO Technician I**

On The Environmental Side ...

- **The 12 sites that comprise the west Vieques Naval Facilities are being recommended for No Further Action**
- **4 sites on west Vieques are slated for debris removal under an EE/CA**
- **1 site on west Vieques – SWMU 4 is undergoing MEC clearance for being a former OB/OD site**
- **East Vieques background sampling recently finished**
- **Site evaluation on various sites continues**
- **Drum field near Camp Garcia was investigated**



Navy's Public Web Site

For more information, please contact:

Madeline Rivera

NAVFAC ATLANTIC - Field Office, Ceiba

787-865-4152 *extension 460*

<http://public.lantops-ir.org/sites/public/vieques>