RAB Meeting

Time Critical Removal Action Update

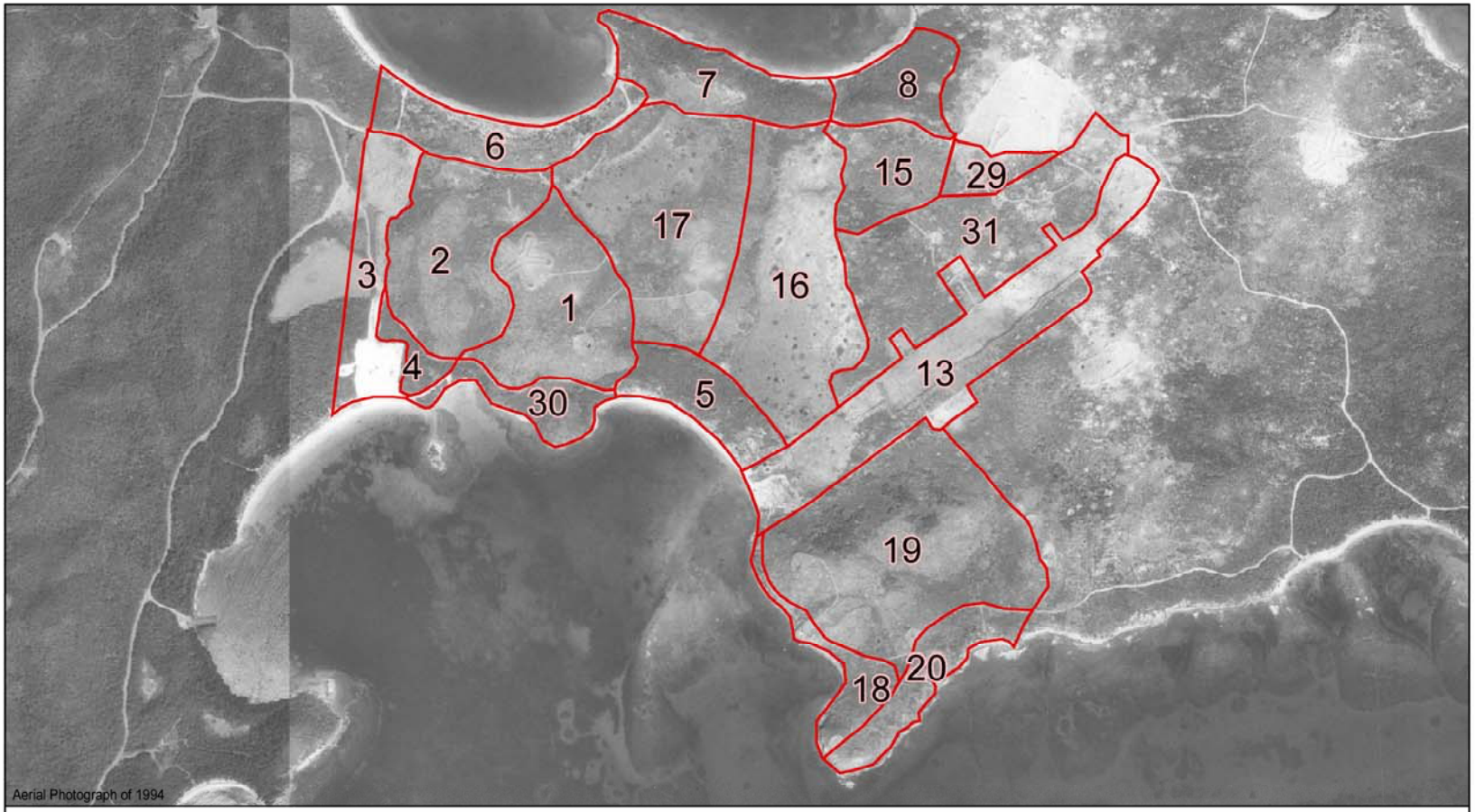
Munitions Response Program
Vieques, Puerto Rico

June 2006

TCRA Objectives

- **Remove all MEC equivalent to or larger than a 20mm projectile present or partially exposed at the ground surface from 400 acres within the MRA-LIA.**
- **Reduce risks at MRSs identified as posing an explosive hazard due to MEC present or partially exposed at the ground surface.**

Current TCRA Area



Legend

MRS Boundaries

Note: See Figure 1-2 for reference

0 150 300 Meters

Figure 1-3
TCRA Areas
Former VNTR
Vieques, Puerto Rico

CH2MHILL

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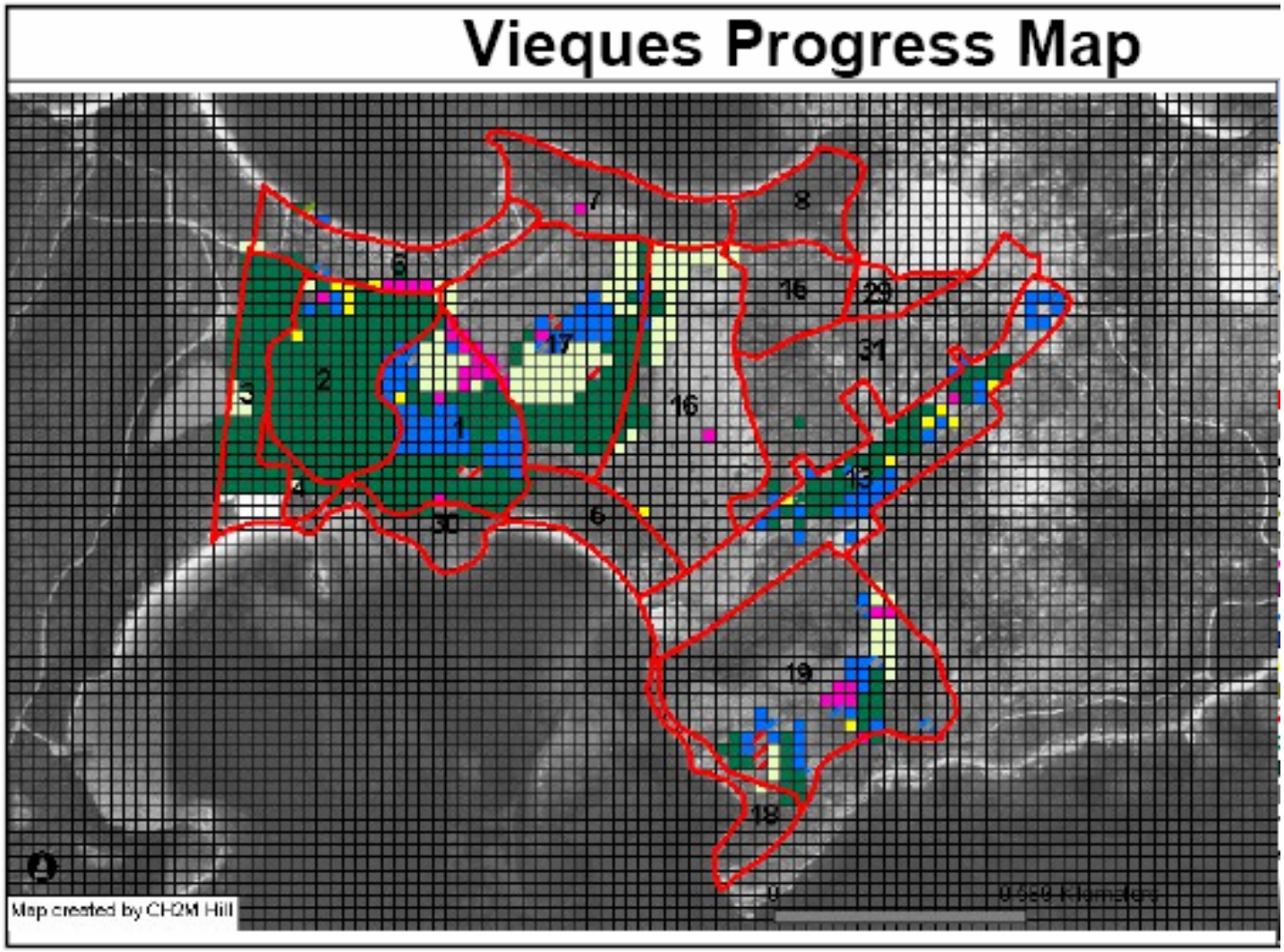
Project Through June 2, 2006

- **208 acres surface cleared (65 acres of beach area cleared during Phase I SI).**
- **Items located requiring detonation:**
  - Bombs – 310 (65 high explosive)
    - ✓ 250lb - 3
    - ✓ 500lb - 53
    - ✓ 750lb - 1
    - ✓ 1000lb - 5
    - ✓ 2000lb - 3
  - ICMS/grenades/flares-pyrotechnics – 109 (71 high explosive)
  - Rockets/guided missiles – 39 (32 high explosive)
  - Projectiles/mortars – 588 (327 high explosive)

Project Through June 2, 2006

- **14 demolition events conducted since August 17, 2006.**
- **66 demolition shots carried out during the 14 events.**
- **Measures taken to protect safety of public:**
  - Notice to Mariners (U.S. Coast Guard)
  - Notice to Airmen (Federal Aviation Administration)
  - Notification made to U.S. EPA, PR EQB, U.S. FWS, PR State Police, and Municipality of Vieques
  - Boat patrols on north and south sides of LIA to inform boaters during demolition events
  - Fact sheets
  - Public notices
  - Flyers

Project Through June 2, 2006



Project Through June 2, 2006

- **Air monitoring is being conducted to evaluate BIP impacts, results to date show no detections of explosives compounds and no metals exceeding screening levels.**
- **Particulate matter exceeded National Ambient Air Quality Standard for one event.**
  - Demolition event conducted April 20 and subsequent fire
  - PM10 average on April 21 = 153 ug/m^3
  - National Ambient Air Quality Standard = 150 ug/m^3
- **Projected completion date for first phase (400 ac) of TCRA is late 2007/early 2008.**

Project Through June 2, 2006

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- Currently all munitions debris, range related debris, or other debris from removal action is staged on-site.
- Initial plan developed for on site processing of range related and munitions related debris.
- Draft work plan submitted and reviewed by regulatory agencies.
- Preliminary tests (off-site) of proposed equipment conducted.

Project Through June 2, 2006

- **Biological assessment is being conducted.**
- **Consultation with USFWS personnel regarding comments and responses on the Draft BA scheduled for beginning of June.**