

**U.S. Army Corps
of Engineers**

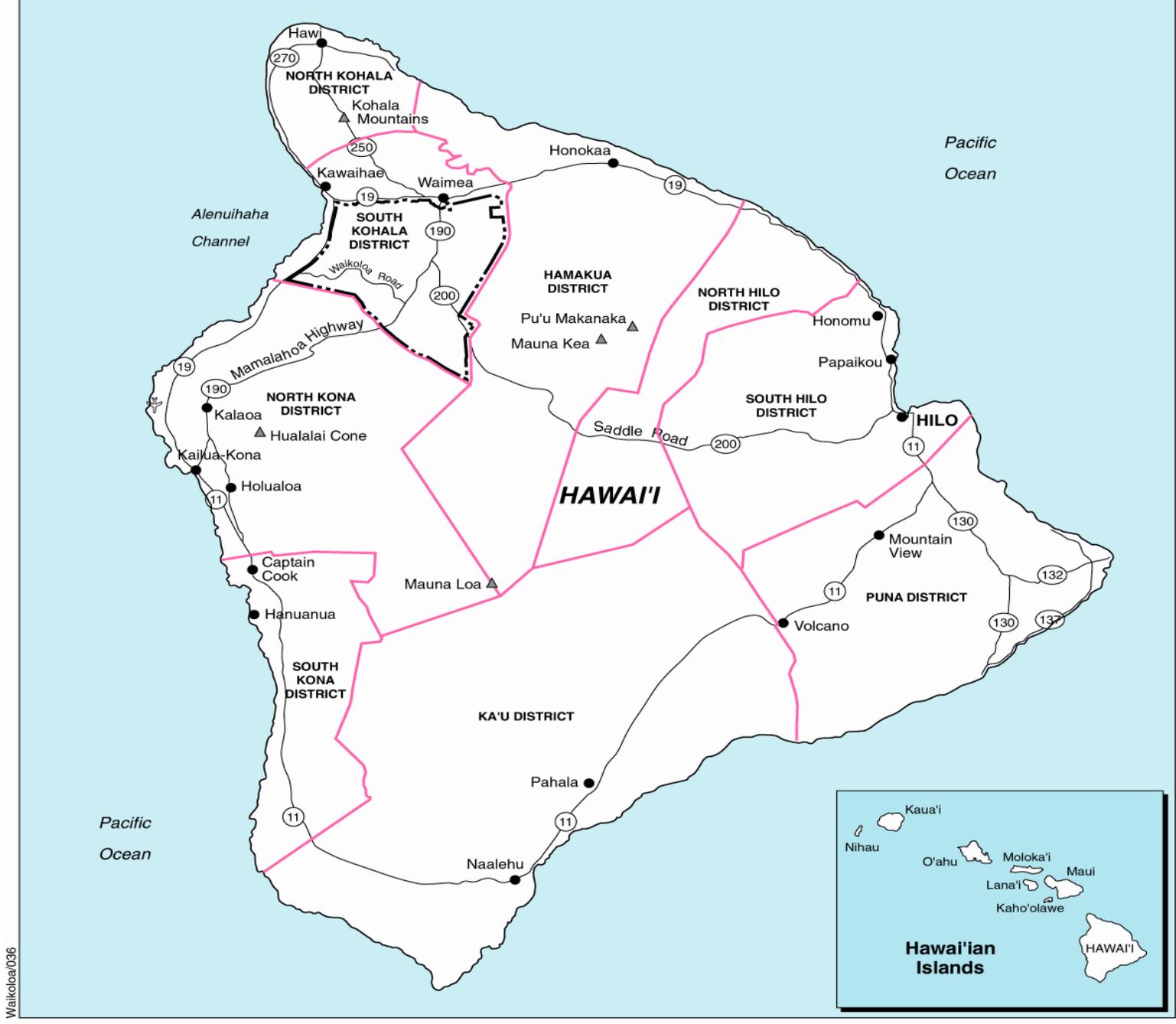


Honolulu District

**Defense Environmental
Restoration Program -
Formerly Used Defense Sites
(DERP-FUDS)**

**PACIFIC OCEAN DIVISION,
HONOLULU DISTRICT**

**Former Waikoloa
Maneuver Area,
Waimea/Waikoloa,
Island of Hawai'i,
Hawai'i**



Waikoloa/036

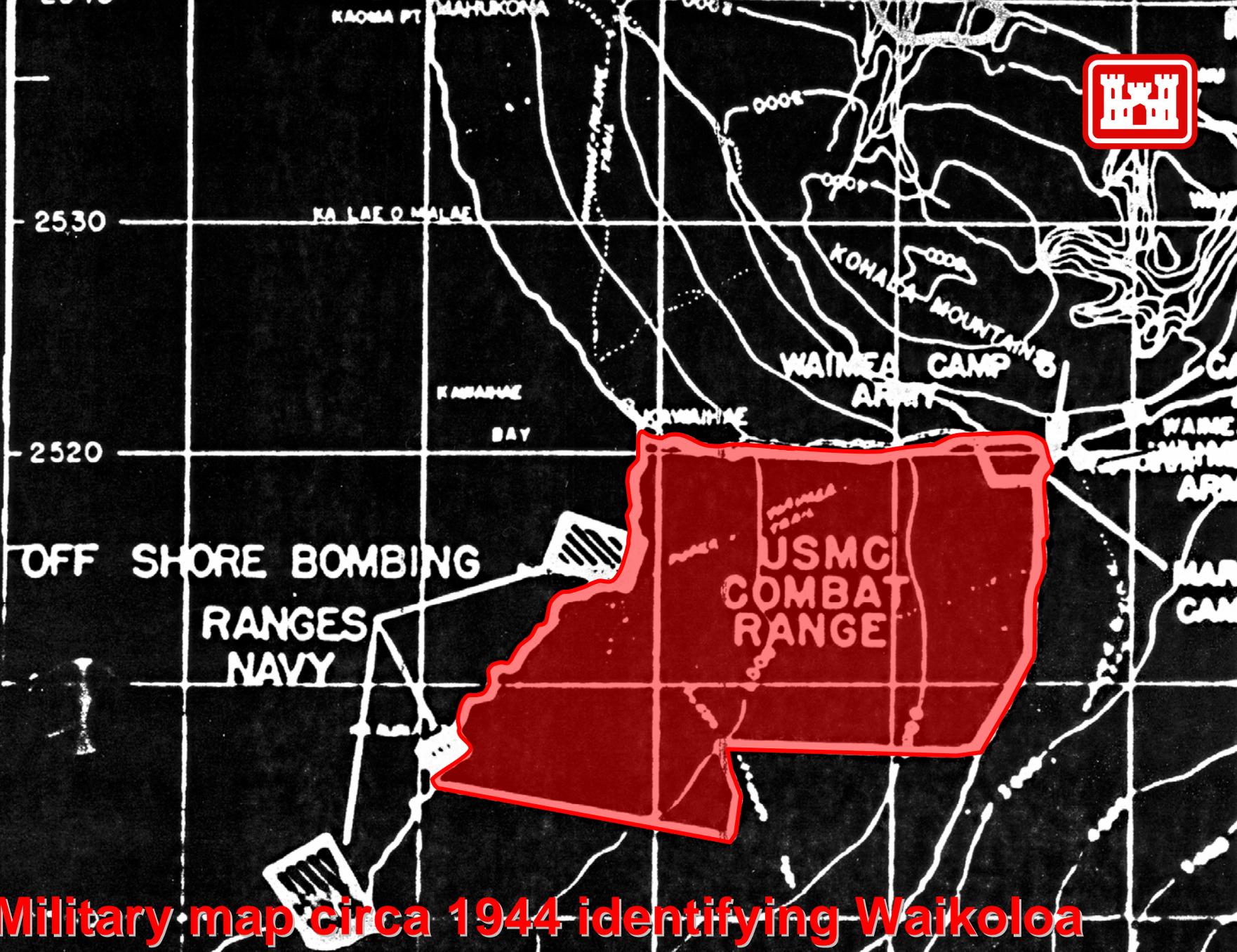
EXPLANATION

--- Phase II EE/CA Investigation Area

Regional Map

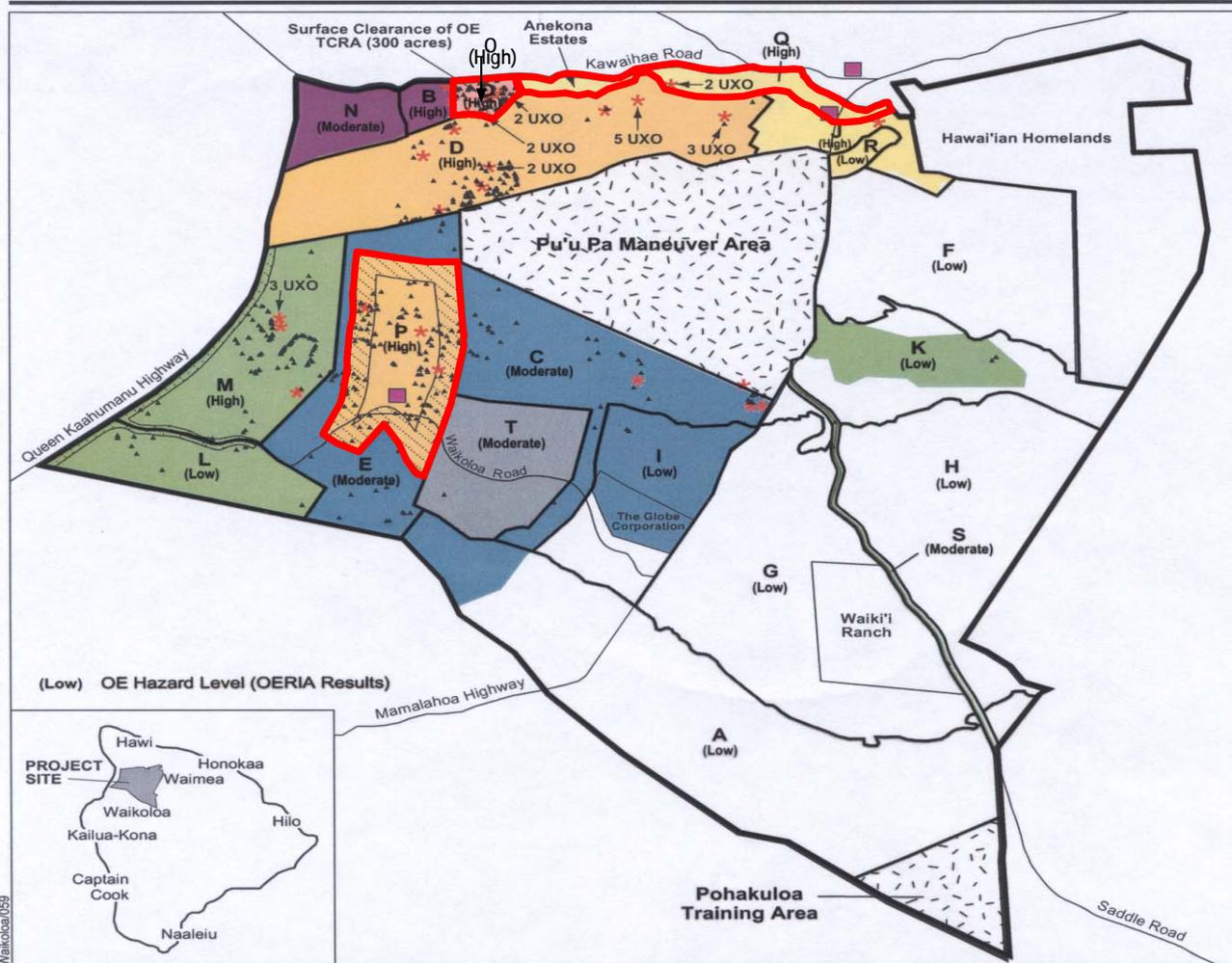
Former Waikoloa Maneuver Area Background

- Encompasses over 123,000 acres
 - Served as a training camp for 40,000 men
 - Site used as artillery firing range and troop maneuvers
 - DoD activities terminated in June 1946
- 
- A black and white photograph showing a large military camp. In the foreground, a dirt road curves through a field of numerous canvas tents. The tents are arranged in rows, and some have laundry hanging from lines. In the background, there are rolling hills and a line of trees under a clear sky.

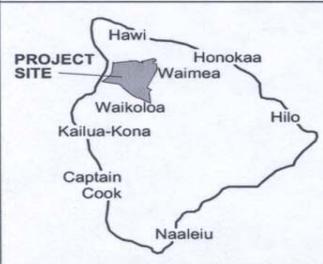


Military map circa 1944 identifying Waikoloa Maneuver Area as USMC COMBAT RANGE.

OERIA Evaluation Areas and Results



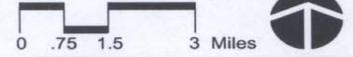
(Low) OE Hazard Level (OERIA Results)



Waikoloa/059

EXPLANATION

- Phase II EE/CA Project Boundary
- Display case locations
- UXO recovered during Phase II EE/CA
- OE Scrap recovered during Phase II EE/CA
- OERIA Area O (1,127 acres): Surface Clearance of OE Time Critical Removal Action (TCRA) for 300 acres. Surface Clearance of OE and Subsurface Clearance of OE to Depth of Detection.
- OERIA Area P (4,507 acres): Surface Clearance of OE and Subsurface Clearance of OE to Depth of Detection (includes a 2,000-foot buffer area around the Waikoloa Village). Developed properties excluded.
- OERIA Areas J, Q, and R (3,659 acres): Surface Clearance of OE and Subsurface Clearance of OE to Depth of Detection. Developed properties excluded.
- OERIA Area D (8,130 acres): Surface Clearance of OE and Subsurface Clearance of OE to Depth of Detection.
- OERIA Areas B and N (1,896 acres): Surface Clearance of OE and Subsurface Clearance of OE to Depth of Detection.
- OERIA Area M (4,972 acres): Surface Clearance of OE in areas to be disturbed and/or developed. Surface Clearance of OE in 500-foot buffer area along major roads.
- OERIA Area L (3,080 acres): Surface Clearance of OE in areas to be disturbed and/or developed. Surface Clearance of OE in 500-foot buffer area along major roads.
- OERIA Area T (3,824 acres): Surface Clearance of OE. Subsurface Clearance of OE to Depth of Detection in areas to be disturbed and/or developed.
- OERIA Areas A, C, E, and I (14,332 acres): Surface Clearance of OE for 100 feet on either side of fences and in the vicinity of existing structures/facilities (e.g., corrals and holding pens). Subsurface Clearance of OE to Depth of Detection on unpaved roads.
- OERIA Area K (2,262 acres): Surface Clearance of OE.
- OERIA Area S (86 acres): Surface Clearance of OE for 40 feet on either side of paved road (highway easement).
- Buffer Area

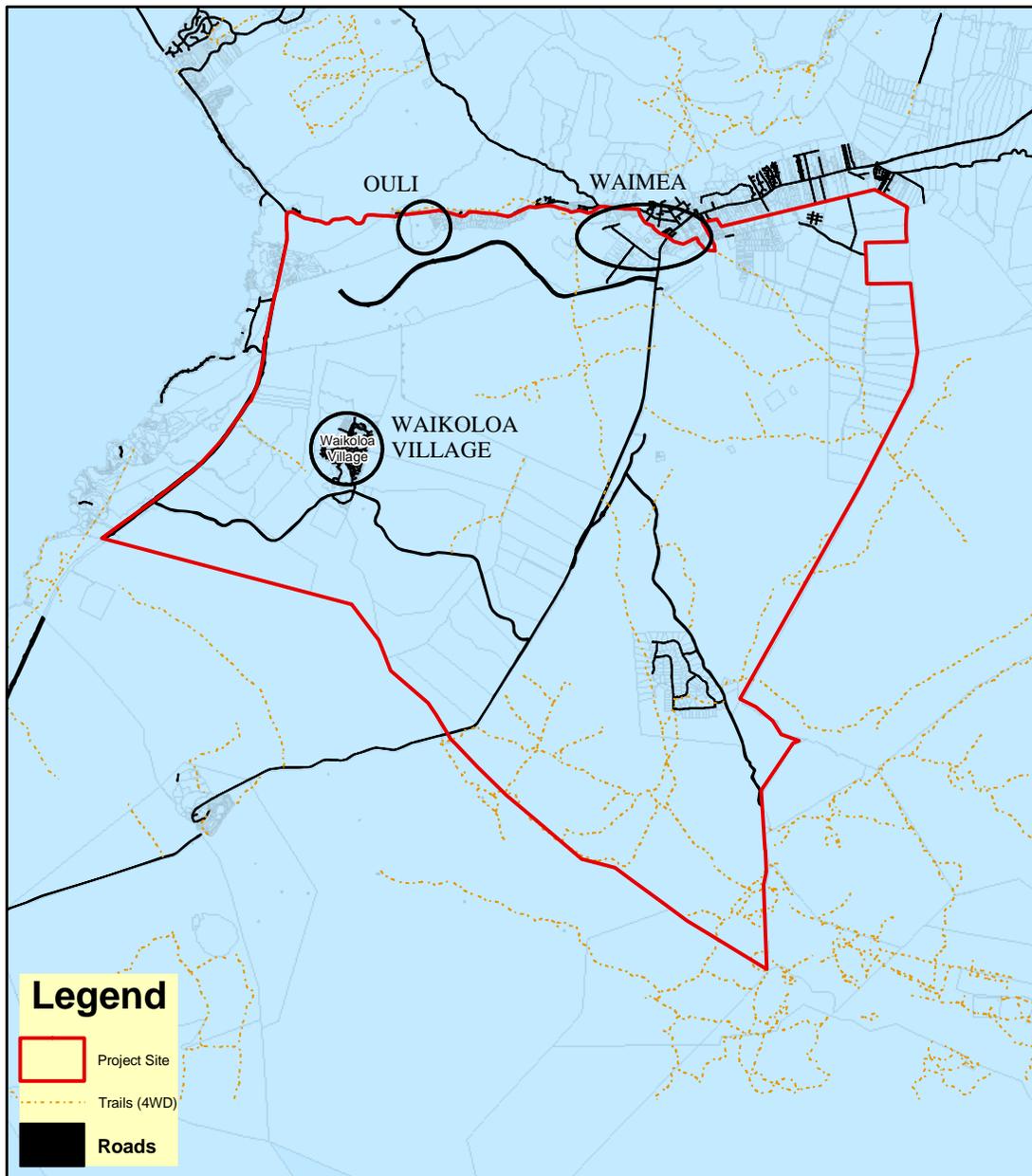


Note: Institutional controls are recommended for the entire Former Waikoloa Maneuver Area and Nansay Sites.

Recommended OE Response Actions Former Waikoloa Maneuver Area and Nansay Sites

Figure ES-1

Waikoloa Maneuver Area



Created By: TJH
Creation Date: 01/29/2004
Revision Dates: N/A

FIGURE 6
3 HIGHEST PRIORITY PARCELS
BIG ISLAND, HAWAII

WAIKOLOA MANEUVER AREA

Post –EE/CA Phase II Discoveries (1994-1994)

- **5 – 105mm rounds in immediate vicinity of Waikoloa Village**
- **1 – 155mm high explosive live round found within 400 meters of Waikoloa Village**
- **Fragmenting-hand grenades continually found by children in Ouli neighborhood**
- **Hand grenades at Waimea Middle School**
- **Hand grenades and Japanese munitions at Parker Ranch/ Shuler Homes, Waimea Town**

WAIKOLOA MANEUVER AREA

Post –EE/CA Phase II Discoveries

(2002-2004), continued

- **81mm HE round found at Hawaii Pacific Academy school, Waimea**
- **Fragmenting hand grenade in stream bed, center of Waimea Town**
- **Practice grenade and rocket round at equestrian center, Parker Ranch**

WAIKOLOA MANEUVER AREA

CONSTRUCTION SUPPORT ACTIVITIES

- **Small commercial/residential development along Kawaihae Road and in Waikoloa Village**
- **US Federal Highways Saddle Road Realignment**
- **US Dept. of Agriculture, US Fish and Wildlife Service, Waikoloa Village Assn. - To establish a vegetative fire break east of Waikoloa Village**

WAIKOLOA MANEUVER AREA

CONSTRUCTION SUPPORT ACTIVITIES (CONT.)

- **Proposed new Waimea Middle School construction (various)**
- **Resort development along Queen Kaahumanu Highway**
- **Residential development at Kawaihae**
- **Residential developments for various companies, Waikoloa Village**

WAIKOLOA MANEUVER AREA

CONSTRUCTION DEVELOPMENT

- **Emergency access road for Waikoloa Village**
- **Subdivision construction at Waikoloa Village**
- **Department of Hawaiian Home Lands residential development in Lalamilo**
- **Parker Ranch/Shuler Homes construction, Phases II and III, Waimea Town**
- **Bridge Aina Lea resort development**
- **Mauna Kea Resort development**
- **Parker Ranch industrial park**

WAIKOLOA MANEUVER AREA

INTERESTED PARTIES

- **Local community associations**
- **Environmental groups (Sierra Club, American Friends Service, Conservation Council for Hawaii)**
- **County of Hawaii (Mayor Harry Kim)**
- **State of Hawaii officials (Dept. of Transportation, Dept. of Education)**
- **Various Native Hawaiian Associations including Hawaiian Home lessees**
- **US Army Garrison Hawaii**

WAIKOLOA MANEUVER AREA

STRONG CONGRESSIONAL INTEREST

- **Senator Daniel Inouye – Extremely High level of interest since his office initiated that POH take action; sees this as an economic boost**
- **Senator Daniel Akaka – Includes this project as one of his major achievements to the voters**
- **Congressman Ed Case – Fully supports this project**
- **Congressman Neil Abercrombie- Briefed on project status**

WAIKOLOA MANEUVER AREA

MAJOR SAFETY ISSUES

- **Fighting brush fires near Waikoloa and Waimea were not allowed due to concerns about unexploded ordnance.**
- **Community was extremely fortunate that the fires did not burn homes or other buildings**
- **Children and residents report findings unexploded ordnance frequently**

WAIKOLOA MANEUVER AREA

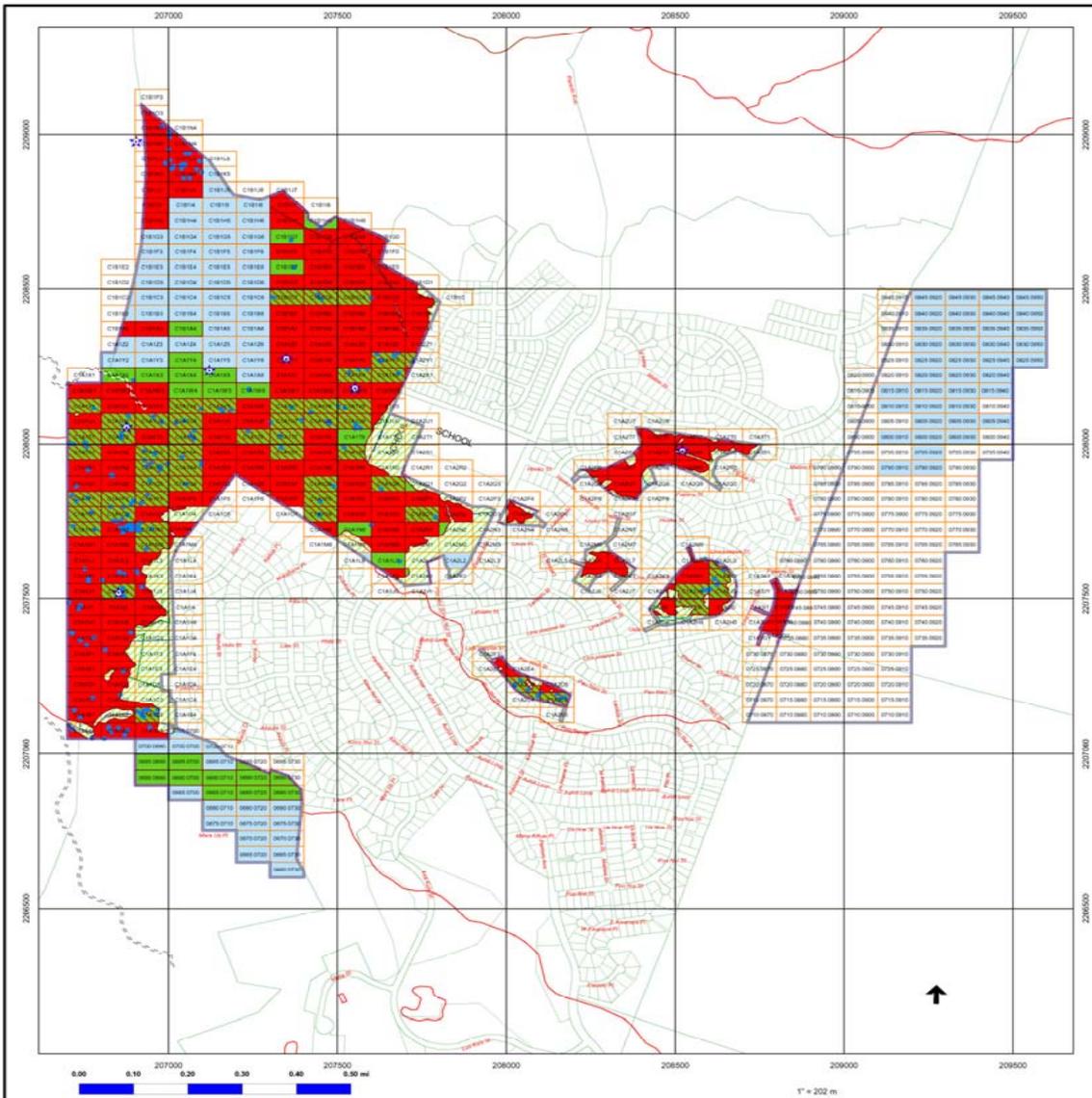
POTENTIAL THREATS AND CONCERNS

- **Waikoloa and Waimea are the fastest growing areas in the State of Hawaii**
- **Vocal environmental groups calling for removal action**
- **Local, state, and federal agencies' projects are being adversely affected**
- **Congressional staffers frequently request updated briefings on Waikoloa**

WAIKOLOA MANEUVER AREA

ACCOMPLISHMENT TO DATE

- **Time critical removal action completed for surface clearance only of 300 acres for Ouli (\$600K in FY02)**
- **Currently providing limited construction support, not clearance (about \$1 million/year)**
- **Removal action contract in Mar 2003 for:**
 - **340 acres in and around Waikoloa Village**
 - **340 acres around the town of Waimea and Lalamilo**
 - **123 acres added with project efficiencies**
 - **\$10 million in FY03**



| | | |
|-------------|----------------------------|-------------|
| ☆ | OE Items | |
| Red | exception_area | 41.6 Acres |
| Green | QA Complete | 167.7 Acres |
| Yellow | QC Approved | 167.7 Acres |
| Light Green | Geo Reacquisition Complete | 89.3 Acres |
| Light Blue | Sweep Completed | 260.5 Acres |
| Blue | Stakeout Completed | |

FILE REFERENCES

geoworkspace\Sweep_completion2.gws
 Layout: Daily C site
 PDF: Sweep_Completion_20040326.pdf

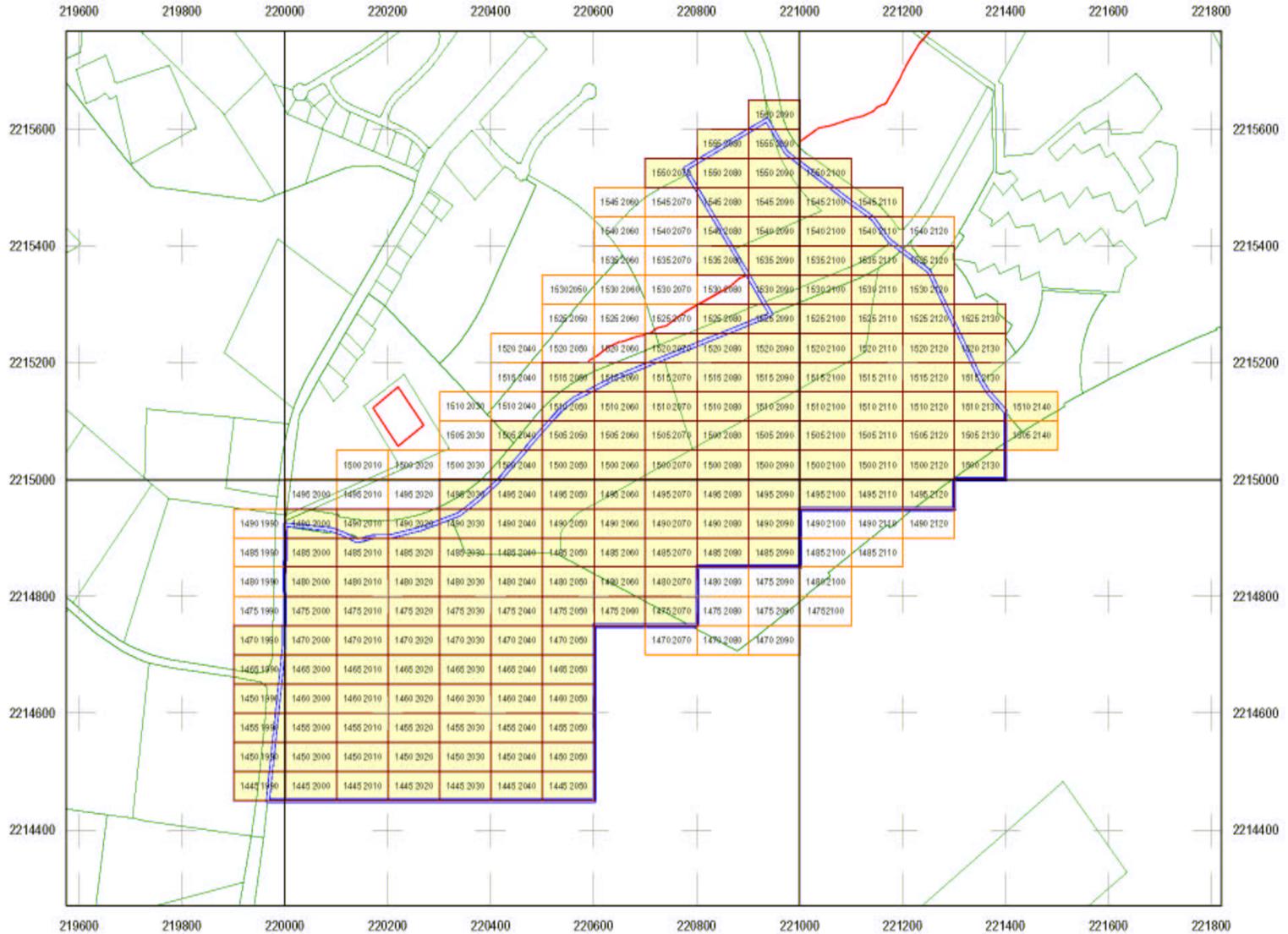
Grid Numbering Based on UTM Coordinates
 Eight digits based on Northing and Easting extraction (see diagram below)

Grid ID is derived from UTM coordinates.
 Remove the ending 0, and use the last 4 characters from each value.
 Northing, Easting = 226627, 02200
 Grid ID: 0660 0730

OE Response Actions former Wailoala Maneuver Area and Nansay Sites
 Surface Sweep Complete
 3/26/2004

Prepared For:
 U. S. Engineering & Support Center, Huntsville

Prepared By:
 American Technologies, Inc.



Area J East - 172.2 Acres
 OE Response Actions, former Waikoloa Maneuver Area and Nansay Sites
 3/24/04 163 grids staked, 172.2 Acres inside boundary

Prepared for U.S. Engineering &
 Support Center, Huntsville
 by American Technologies Inc

WAIKOLOA MANEUVER AREA

ACCOMPLISHMENT TO DATE,

cont.

- **Task Order #02 for ordnance removal:**
 - **awarded in March 2004**
 - **total \$9,571+k**
 - **1,035 acres for ordnance clearance**
 - **includes portions of 3 highest areas of risk for project at Ouli, Waimea, and Waikoloa**

WAIKOLOA MANEUVER AREA

ACCOMPLISHMENT TO DATE (CONT.)

- **EE/CA Phase III**
 - **Fieldwork begin April 2004**
 - **Covers the oceanside (west) of Queen Ka'ahumanu Highway and north of Kawaihae Highway**
 - **Includes resort development areas, residential communities, public beach parks, and cultural park**
 - **Cost \$527, 000 awarded in FY03**

WAIKOLOA MANEUVER AREA

ADVERSE IMPACTS TO DATE

- **Delay in school construction – children currently sitting on the floor due to the lack of classrooms**
- **Fire fighting is not allowed due to safety risk. Homes were almost lost due to the danger of OE risk**
- **Plans in place for limited public evacuation for ordnance disposal at Waikoloa Village**



Nearest residence 400 meters away

Live 155mm











Any Questions?

