

# Restoration Advisory Board Meeting

August 26, 2008



US Army Corps  
of Engineers

## PINECASTLE JEEP RANGE – ORLANDO, FLORIDA

## Agenda

### TCRA Summary

- Odyssey Middle School
- Mockingbird Property LLC
- Tivoli Gardens Housing Area
- Warwick Housing Area

### Remedial Investigation /Feasibility Study (RI/FS) Status

- Right of Entry (ROE)
- Metal Detector Surveys
- Preparation of Transects
- Intrusive Investigations
- Environmental Sampling



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**PINECASTLE JEEP RANGE – ORLANDO, FLORIDA**

# Time Critical Removal Action (TCRA)

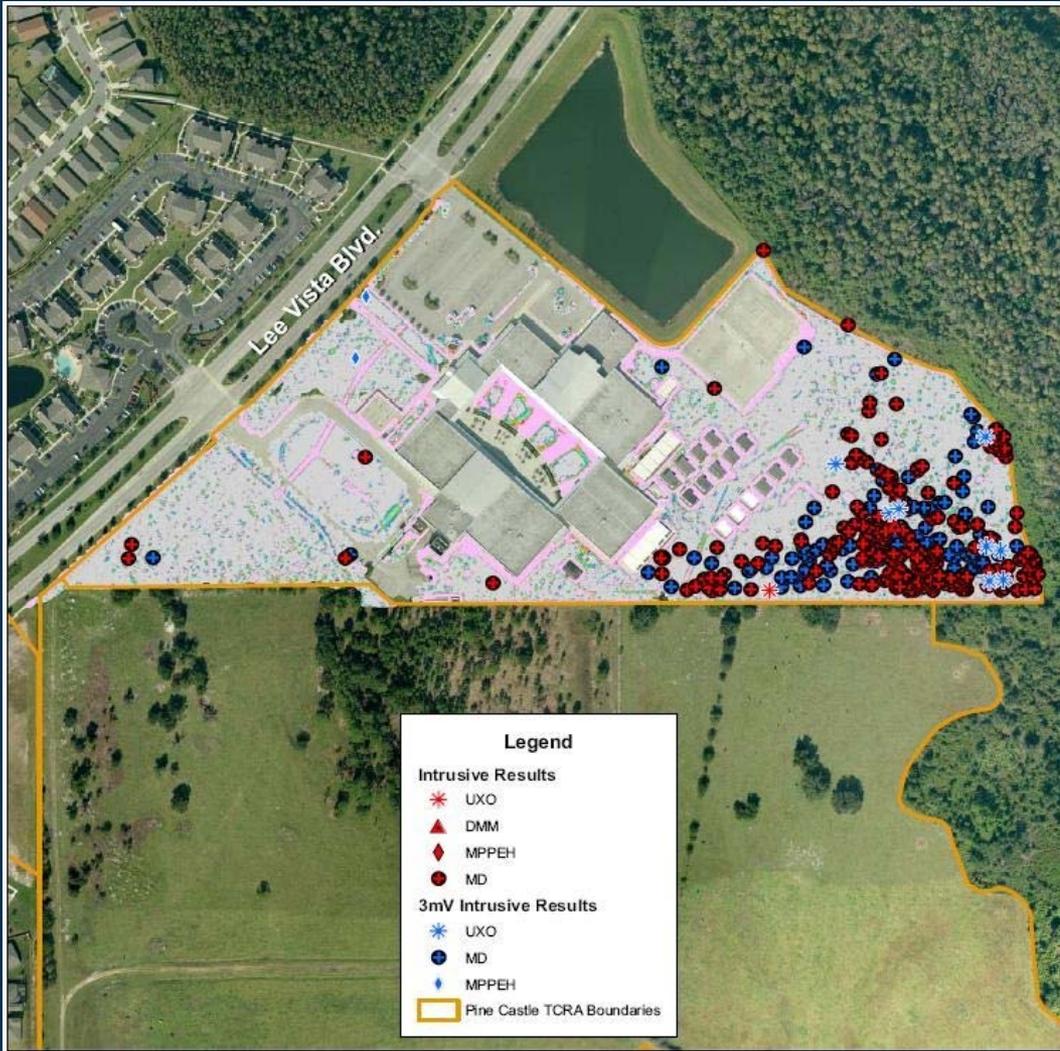


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PINECASTLE JEEP RANGE – ORLANDO, FLORIDA

# Pinecastle Jeep Range TCRA Odyssey Middle School



## Type of Munitions

### Infantry Items

- 14 MEC
  - 117 MD
- Anti-Tank Rockets  
Projectiles

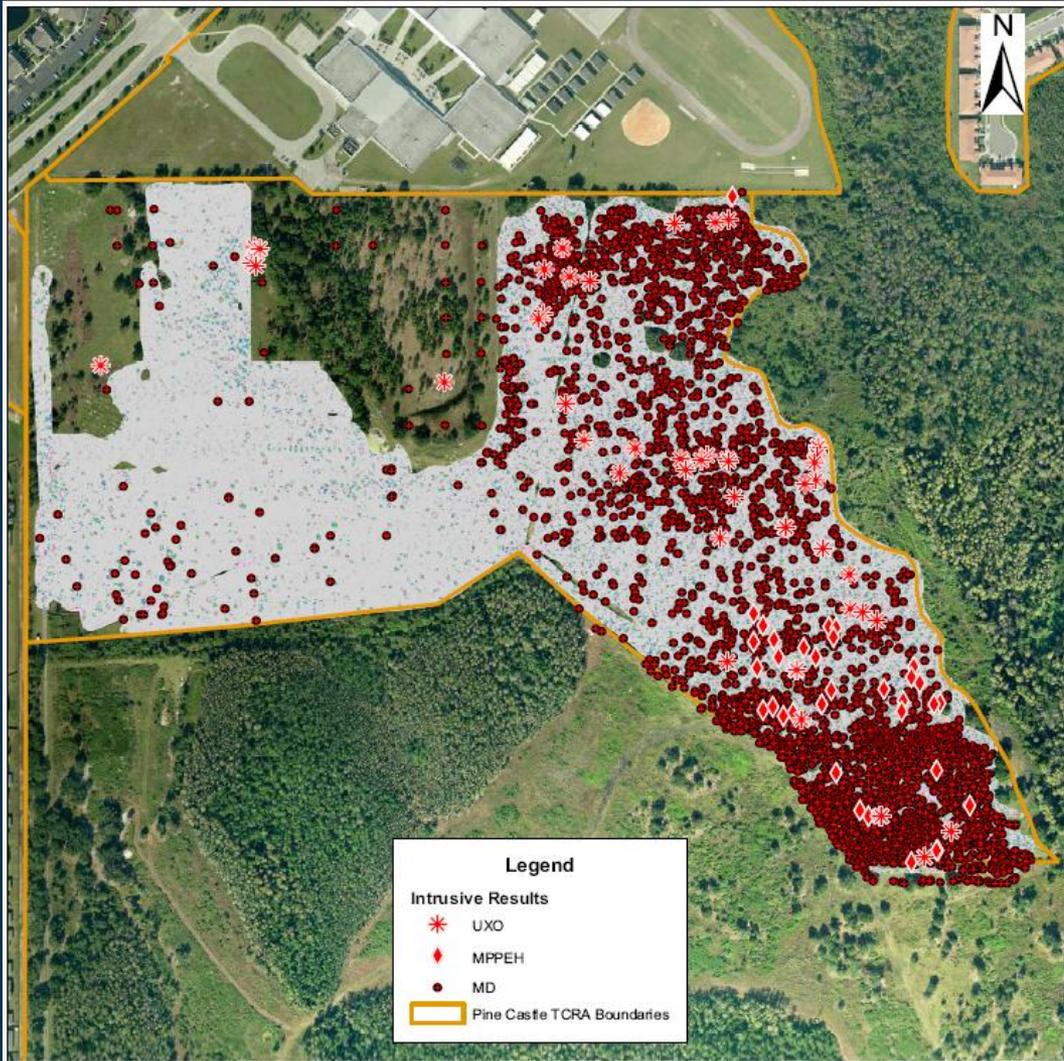
### Aerial Items

- 102 MEC
  - 147 MD
- Air to Ground Rockets  
Practice/HE Bombs

### Pounds

- 7000 Scrap
- 807 MD

# Pinecastle Jeep Range TCRA Mockingbird Property (LLC)



## Type of Munitions

### Infantry 465 Items

- 38 MEC
  - 427 MD
- Anti-Tank Rockets  
Projectiles

### Aerial 911 Items

- 12 MEC
  - 899 MD
- Air to Ground Rockets  
Practice/HE Bombs

### Fragments

- 1,352 Items
- 2,855 lbs

### Cultural Debris

15 tons

# Pinecastle Jeep Range TCRA Tivoli Housing Area



## Type of Munitions

### Infantry 3 Item

- 0 MEC
- 3 MD

### Aerial 12 Items

- 3 MMPEH
- 9 MD

37mm Projectiles  
Air to Ground Rkts  
HE Bombs

# Pinecastle Jeep Range TCRA Warwick Housing Area



## Type of Munitions

None

## Cultural Debris

1,731 Items

1,161 lbs

- Drain Pipe
- Manhole Cover
- Survey Stake
- Scrap Metal
- Wire
- Rebar Nails/Screws
- Banding
- Concrete
- Brake Shoe
- Sign Post
- Construction Debris
- Automobile Parts
- Sprinkler

# Remedial Investigation Feasibility Study Status



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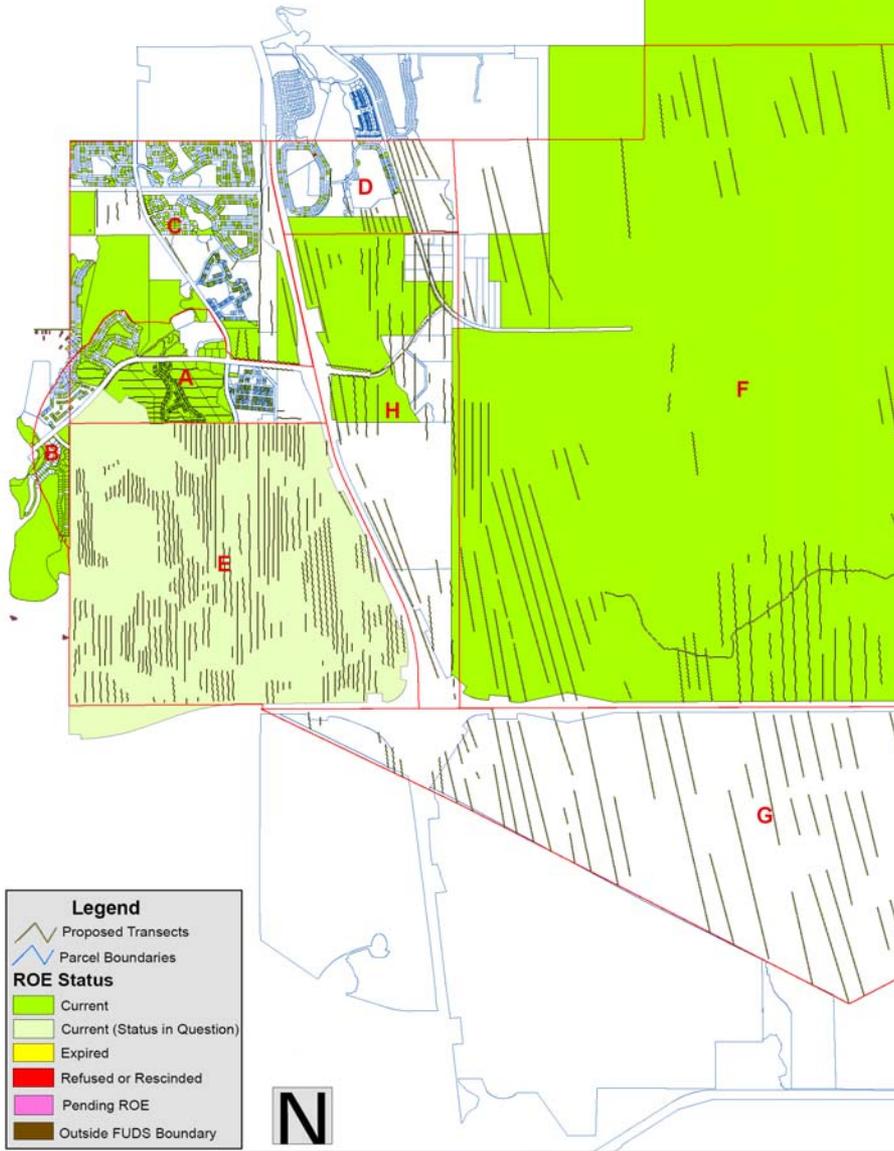
**PINECASTLE JEEP RANGE – ORLANDO, FLORIDA**

# Remedial Investigation Summary

- Rights of Entry (ROE)
- Metal Detector Surveys
- Preparation of Transects
- Intrusive Investigations
- Environmental Sampling

# Rights of Entry (ROE)

- **Completed ROEs are required before a property can be investigated**
  - 800+ ROEs executed of the 2,000+ sought
  - ~300 partially completed ROEs returned to property owners
  - Still missing some important areas
    - Common areas in some developments
    - Large parcels such as Mockingbird, LLC and Carlsbad, LLC



# Metal Detector Surveys

- **Digital Geophysical Mapping (DGM)**
  - Residences in Area A and Area C
    - Avon, Tivoli Woods
    - Hidden Oaks School – complete
  - Lots by Crowntree Lakes Apartments
  - Transects in Area F and Area H



# Transects

- **Brush clearing**
  - Area A – hand cleared transects in wetlands
  - Area H – mechanical clearing in uplands
  - Area F – mechanical clearing in uplands
- **Surveyors**
  - Recording location control on all transects



# Digging for Munitions

- Hidden Oaks Elem. School – completed
- Lee Vista Square – courtyards
- Avon – in progress
- Conservation area between Odyssey MS and Tivoli Gardens
  - Transects cut
  - Some areas dug, halted due to rising water
  - Bazooka rockets found

# Munitions Found

High explosive 2.36" rocket



Practice 2.36" rocket



Practice 20mm projectile

# Intrusive work in Avon



FORMERLY USED DEFENSE SITES

**PINECASTLE JEEP RANGE**

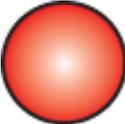
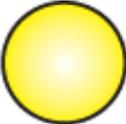
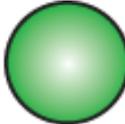
# Environmental Samples

- 41 soil samples collected from under munitions/items
  - Odyssey MS
  - Tivoli Gardens
  - Conservation Area
  - Analyzed for explosives and metals
    - Preliminary results
      - No explosives detected
      - Metals still have to be compared to background data
  - Final results will be presented in the Remedial Investigation Report



# Protect yourself by remembering the **Three Rs:**

- **Recognize** – the item you found may be dangerous.
- **Retreat** – leave the item where it is and go away.
- **Report** – Call 911 and report what you found. The local police will know what to do.

 **R**ecognize  **R**etreat  **R**eport