

FUDS Military Munitions Response Program

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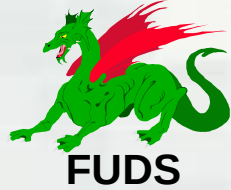
US Army Corps of Engineers
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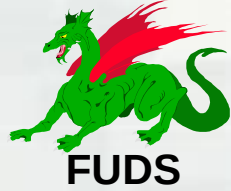
Topics For Discussion



- Achievements
 - ▶ SI Milestones
 - ▶ Innovative Technology
 - ▶ FUDS GIS
- On Going Actions
 - ▶ Interim Risk Management
- Future Direction
 - ▶ MMRP Strategy
 - ▶ MMRP Sequencing



Achievements

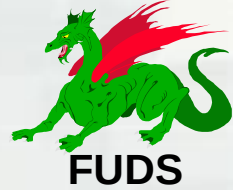


- **Completed 787 MMRP-SI's**
- **Completed Actions at 561 sites**
- **Innovative technologies**
- **FUDS GIS**



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MMRP Innovative Technology FY09



New/Emerging Technologies demonstrated at eight FUDS

Spring Valley
Plum Tree Island
Martha's Vineyard
Pole Mountain

Camp San Luis Obispo
Great Salt Plain Bombing Range
Pine Ridge Gunnery Range
Lowery Gunnery & Bombing Range

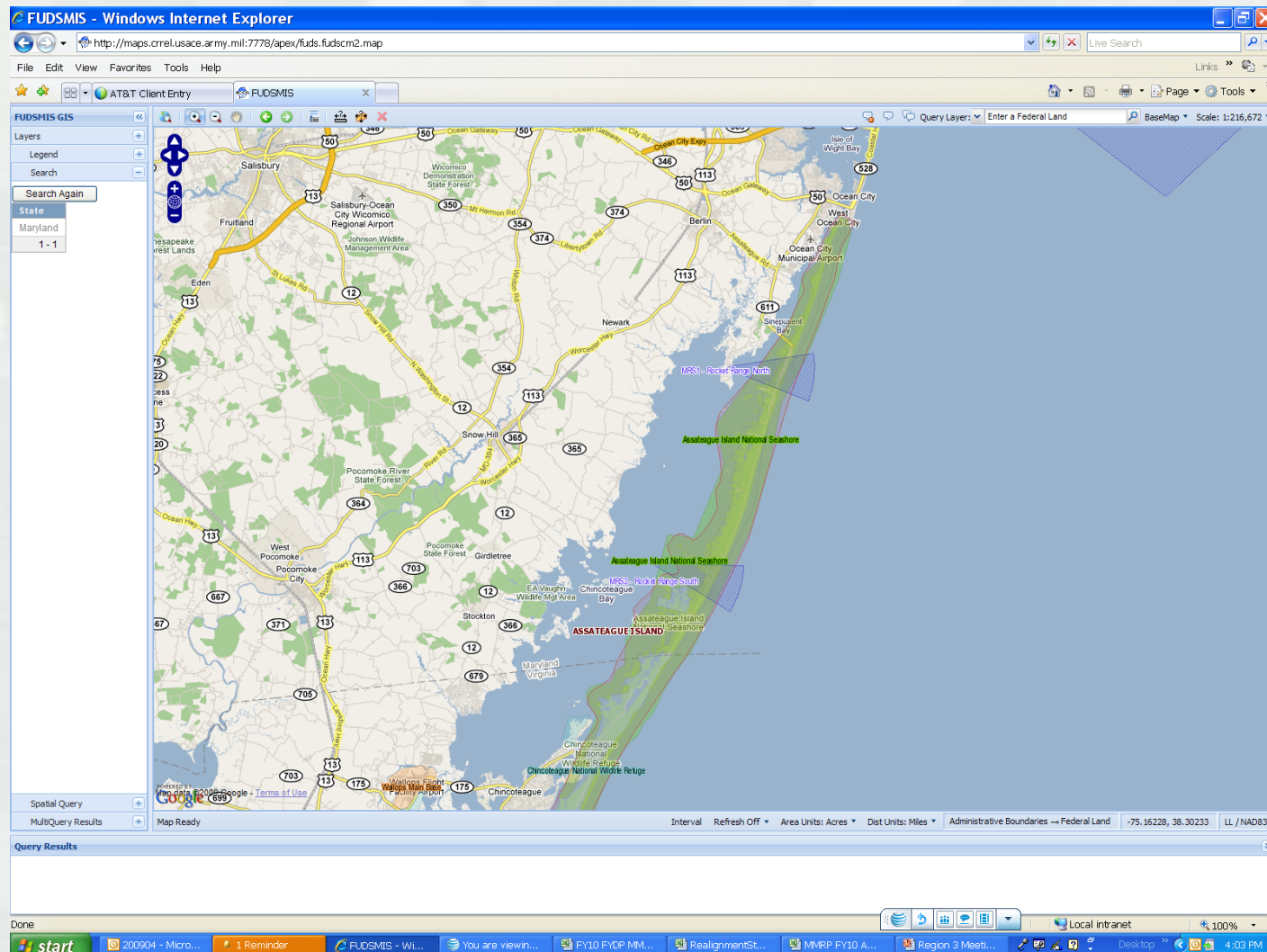
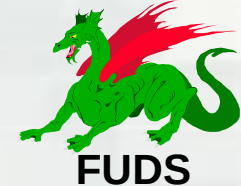
Sixteen technologies demonstrated

- VSP
- Innovative Materials Handling
- Autonomous Robotics
- GPR supporting decision rules
- Underwater EMI sensor
- Side Scan Sonar
- Real-time underwater video
- Phytoremediation of Arsenic
- Advanced EMI and Multi-component Sensors (4 types)
- Advanced Anomaly Classifications (4 types)

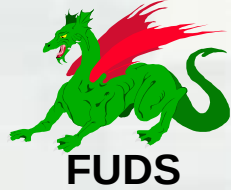


FUDS GIS

https://environment.usace.army.mil/what_we_do/fuds/



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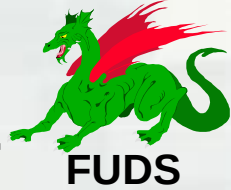


On Going Actions

- Implement MMRP Interim Risk Management
- Fund High Visibility Projects
- Focus On Completing On-going Remedial And Removal Projects
- Limited New Starts for RI's



FUDS Interim Risk Management



▪ Continuing Efforts

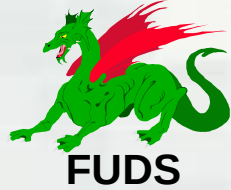
- ▶ Presenting a UXO safety display at this years County Agencies Meeting
- ▶ PAOs use UXO 3R's Safety information at public meetings on MMRP projects, including meetings held specifically for the SI Program
- ▶ Maintaining web page with a link to the DENIX safety education page
- ▶ Updating public GIS website with property polygons sent in from the field

▪ New and Future Efforts

- ▶ Developing an outline and schedule for responding to elements (i.e. community outreach, notification, safety education, construction support) of program
- ▶ Using MRSP scores to initiate a phased notification program that meets all DoD and DA requirements.
- ▶ Specific outreach ideas being developed are: video games for educating young children about the 3Rs, targeted newsletters, and other updated presentation materials for public meetings



High Visibility Projects



►MMRP

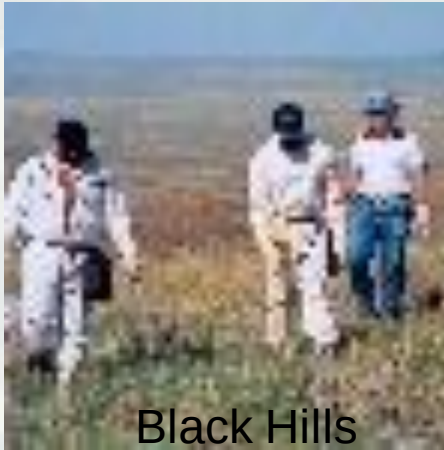
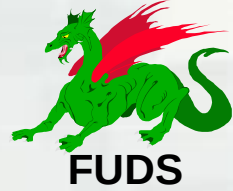
- Sibert, AL
- Camp Wheeler, GA
- Culebra, PR
- Frankford Arsenal, PA
- Orlando Range and Chemical Yard, FL
- Pinecastle Jeep Range, FL
- Spring Valley, DC
- Waikoloa Maneuver Area, HI

►HTRW

- West Virginia Ordnance Works, WV
- F.E. Warren Site 4, WY



On-going Cleanup



Black Hills



Camp Sibert



Plum Tree Island



Dolly Sods

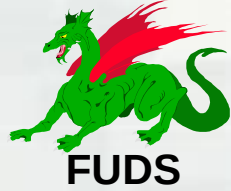


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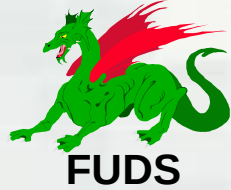
Future Direction



- MMRP Strategy
- MMRP Sequencing



MMRP Strategy



Proposed Goals

■ Short-term

- ▶ Implementing MMRP Safety Education
- ▶ Complete currently funded Removal Actions
- ▶ Complete MMRP SI's

■ Mid-term

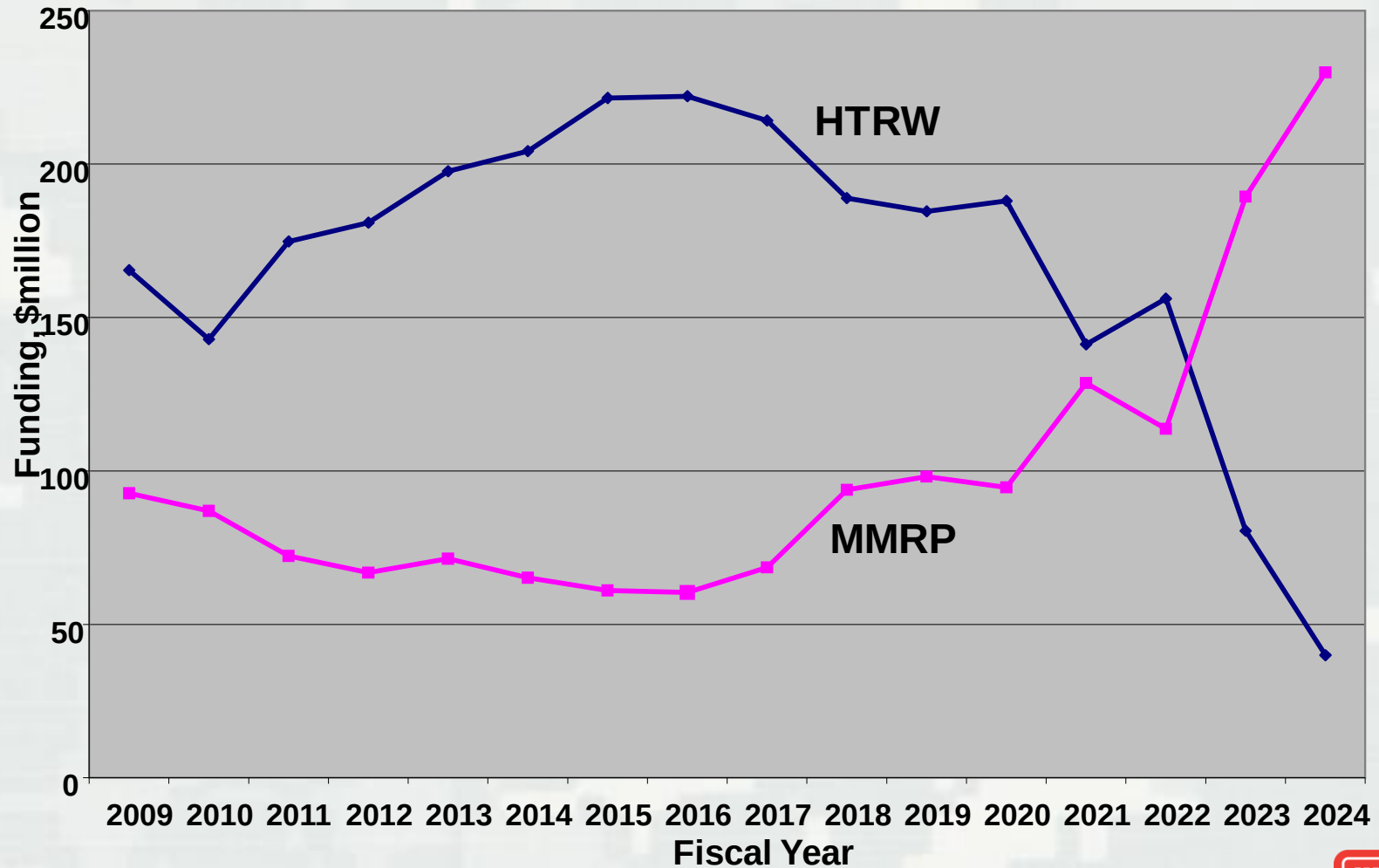
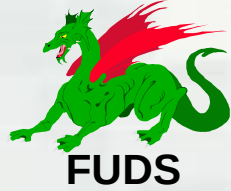
- ▶ Complete On-going Cleanups Initiated Prior to FY10
- ▶ Complete CWM Projects
- ▶ Develop MMRP Program Management Plan

■ Long-term

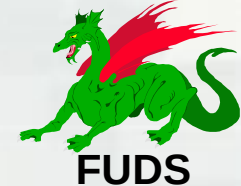
- ▶ Focus On RIP/RC (Cleanup) Not Study (No RI program)
- ▶ Increase MMRP Funding Level



Transition of Funding (FY09 ARC)



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Army MRS Sequencing

- The sequencing of MRSs for action shall be based primarily on the MRS priority determined through applying the Munitions Response Site Prioritization Protocol (MRSP). Exceptions include:
 - “Evaluation Pending” MRS – Generally not sequenced for action until the necessary degree of characterization is complete.
 - Ongoing Response Actions (e.g., Time-Critical Removal Actions) – Sequencing for any additional response actions will generally occur after the current action is complete and after MRSP has been reapplied in consideration of the changes in site conditions.
- Risk Plus Factors - The risk-plus factors are to be evaluated on a site-specific basis and should not be considered independently from, but in addition to, the assigned relative priority scores.



The United States Army
Presents

Sergeant WOOLF

PROTECT
yourself and family,
friends and community.
LEARN and FOLLOW
the 3Rs

RECOGNIZE: Realize that you may have found ammo
RETREAT: Do not touch, move or disturb it—
carefully leave the area, but do not run
REPORT: Tell a parent or other adult to call 911



If you **did not**
drop it,
do not
pick it up!



Ilio
warns

DO NOT PICK UP OR TOUCH THESE ITEMS!



Remember the **3Rs**

RECOGNIZE: They are dangerous
They may burn you or start a fire
RETREAT: Do not pick them up, handle or play with them
Do not put near fire or heat
REPORT: If you see these items on the beach,
tell a lifeguard or an adult



WARNING:
Munitions are dangerous, and may not be easily
recognizable!
Never touch, move or disturb a munition!

REMEMBER THE 3Rs

RECOGNIZE: Recognize when you may have
encountered a munition.
RETREAT: Do not touch, move or disturb it, but
carefully leave the area.
REPORT: At sea: Use Channel 16 (156.800 MHz)
On land: Call 911



DON'T BE TEMPTED!
TOUCHING THESE CAN BE DEADLY!



3Rs of Explosives Safety

Recognize



Retreat

Report



Recognize when you may have encountered a munition.
Do not touch, move or disturb it, but carefully leave the area.
Immediately notify the police if on land, or the U.S. Coast Guard,
if at sea. Emergency contacts:
• On land: Call 911
• At sea: Use Channel 16 (156.800 MHz)

<https://www.denix.osd.mil/uxosafety>

Maritime Industry

3Rs EXPLOSIVES SAFETY GUIDE



Construction Industry

3Rs EXPLOSIVES SAFETY GUIDE

