



Military Munitions Response Program (MMRP)

RVAAP RAB Meeting

27 Sep 06

Mary Ellen Maly
MMRP Program Manager
USAEC





Program Overview

What is the MMRP?

- Response actions (identification, investigation and removal or remedial actions) to address unexploded ordnance (UXO), discarded military munitions (DMM) or the chemical residue of munitions (MC).
- Created by Congress via the 2002 Defense Authorization Act (modified 10 USC 2701)

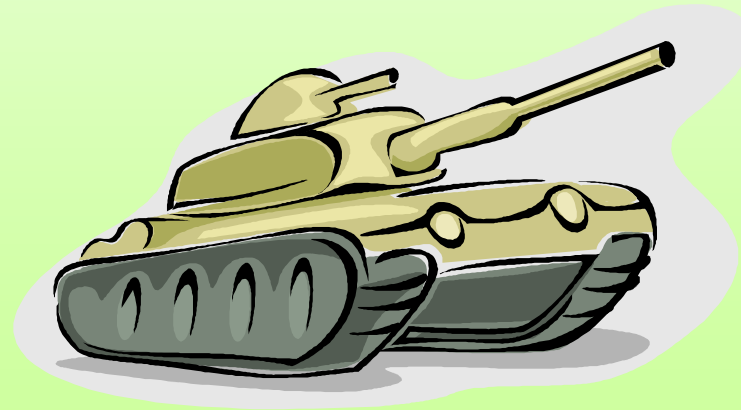
**This is a very new program for
Active Installations**



Definitions

- Military Munitions -

- All ammunition products except wholly inert items, improvised explosive devices and nuclear weapons





Definitions

- Unexploded Ordnance (UXO) -

- **A Military Munition that has been:**
 - Primed, fused, armed or prepared for action;
 - Has been fired, dropped, launched and;
 - Remains unexploded
- **UXO are very sensitive, making them very dangerous items**



Definitions

- Discarded Military Munitions (DMM) -

- A Military Munition that has been abandoned without proper disposal. Does not include UXO.
- Still dangerous, but generally not as sensitive as UXO.



Definitions

- Munitions Constituents (MC) -

- Any materials originating from UXO or DMM. Includes explosive and non-explosive materials.



**Examples: RDX, HMX,
TNT, Lead, Antimony,**



Origins of the MMRP



- **Army Range Inventory** - Identified & documented the Army's current and historic military range lands and munitions sites
- **Initial Operational Range Inventory**
 - Oct 2000 – Jan 2003
 - 479 installations / 10,520 ranges / 15,142,989 acres
- **Non-Operational Ranges & UXO Sites Inventory**
 - Oct 2001 – Dec 2003
 - 183 ER,A Installations / 937 sites / 2,905,650 acres



MMRP Eligibility at Active Installations



- The release* occurred prior to 30 Sep 2002
 - The site is not on an operational range
 - The site is not on a permitted munitions disposal facility
-
- **Non-Operational Range Inventory - Eligibility Results**
 - IRP: 30 installations / 98 sites / 4,683 acres
 - **MMRP: 166 installations / 819 sites / 2,899,437 acres**
 - Non-DERP: 18 installations / 34 sites / 1,530 acres

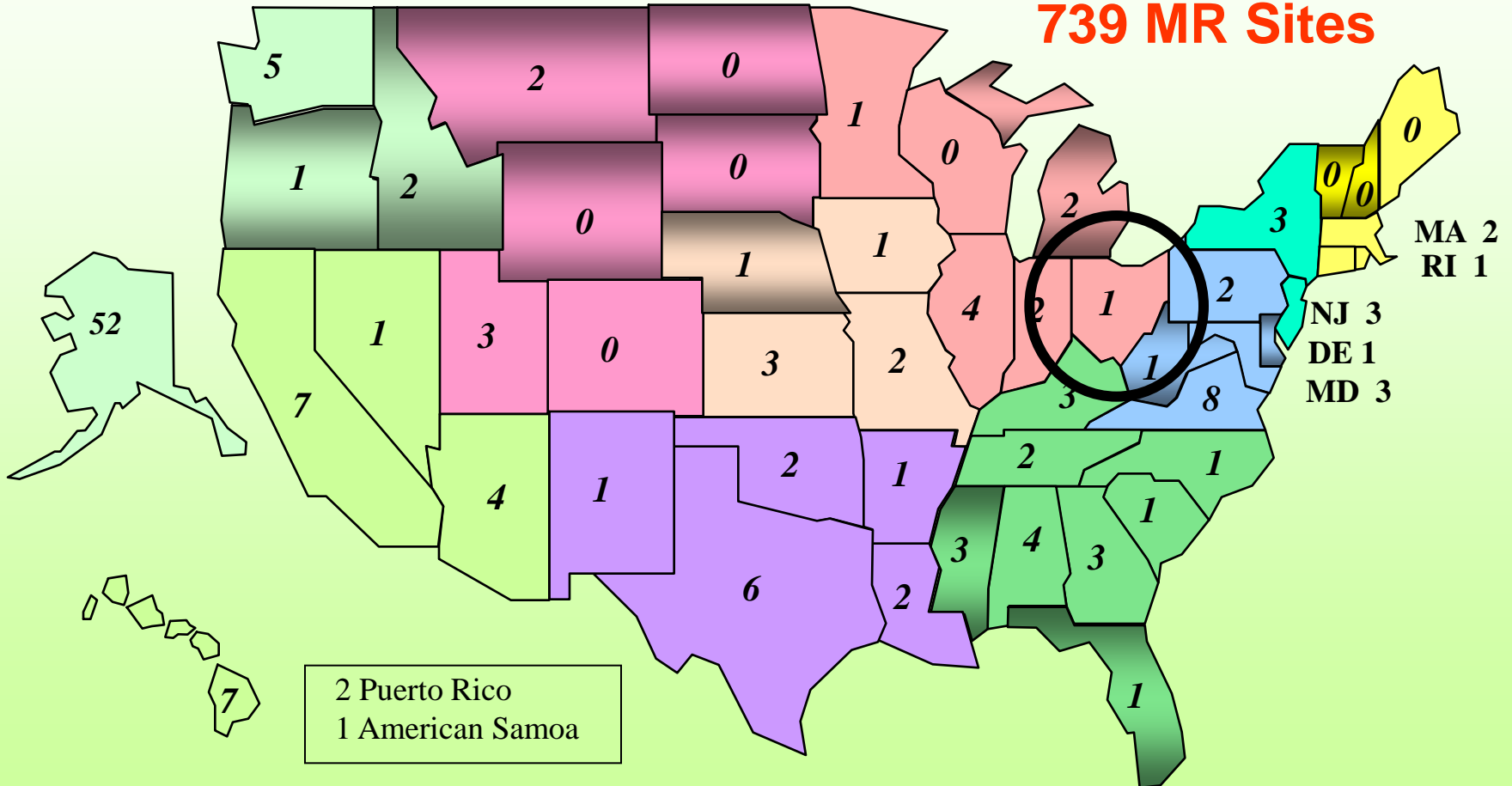
* Release = For munitions, means shooting, firing or placement



Active Installations with MMRP Sites as of Sep 05

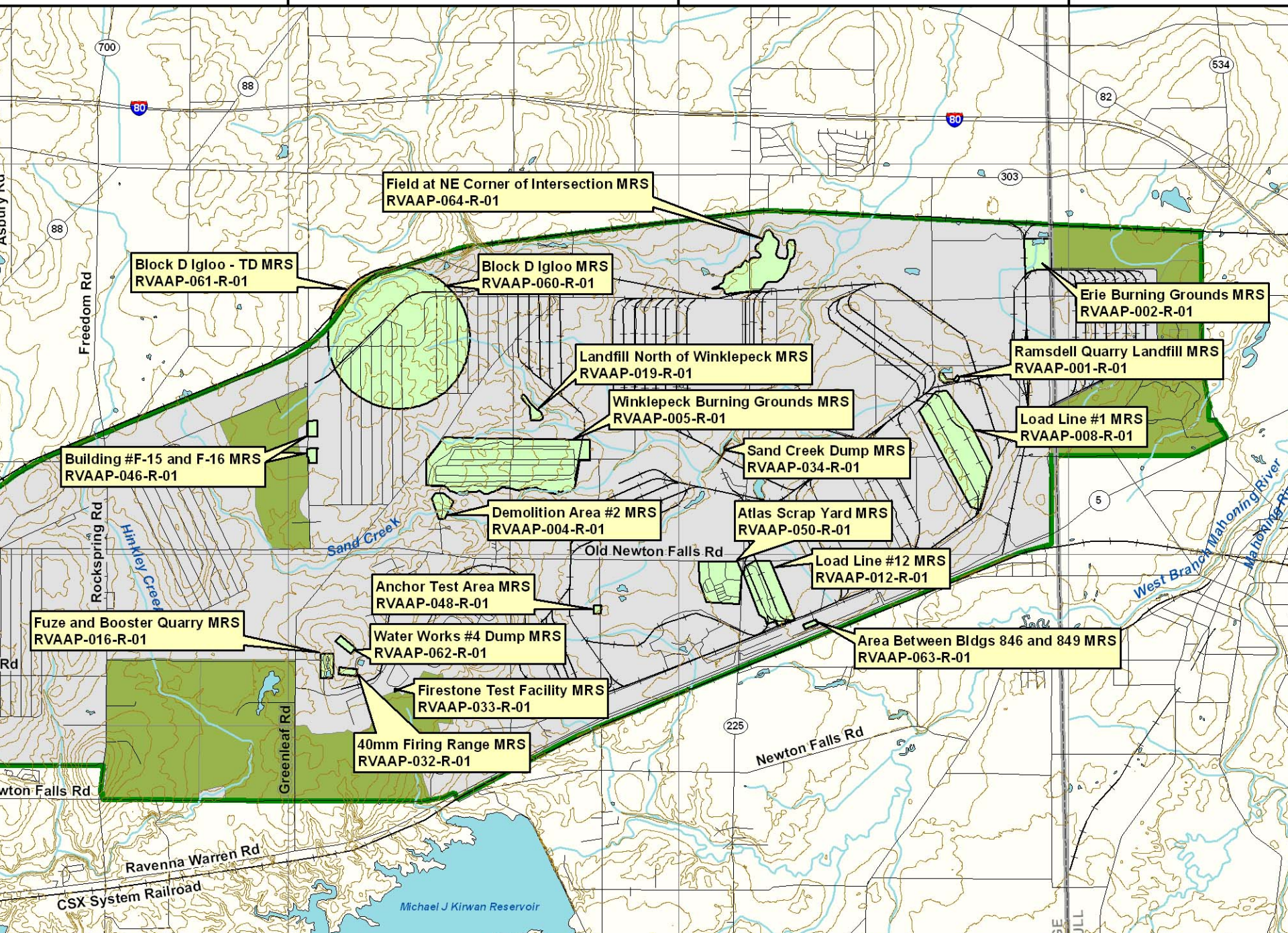


**157 Installations
739 MR Sites**



2 Puerto Rico
1 American Samoa

MA 2
RI 1
NJ 3
DE 1
MD 3



Field at NE Corner of Intersection MRS
RVAAP-064-R-01

Block D Igloo - TD MRS
RVAAP-061-R-01

Block D Igloo MRS
RVAAP-060-R-01

Erie Burning Grounds MRS
RVAAP-002-R-01

Ramsdell Quarry Landfill MRS
RVAAP-001-R-01

Landfill North of Winklepeck MRS
RVAAP-019-R-01

Winklepeck Burning Grounds MRS
RVAAP-005-R-01

Load Line #1 MRS
RVAAP-008-R-01

Building #F-15 and F-16 MRS
RVAAP-046-R-01

Sand Creek Dump MRS
RVAAP-034-R-01

Demolition Area #2 MRS
RVAAP-004-R-01

Atlas Scrap Yard MRS
RVAAP-050-R-01

Load Line #12 MRS
RVAAP-012-R-01

Fuze and Booster Quarry MRS
RVAAP-016-R-01

Anchor Test Area MRS
RVAAP-048-R-01

Water Works #4 Dump MRS
RVAAP-062-R-01

Area Between Bldgs 846 and 849 MRS
RVAAP-063-R-01

Firestone Test Facility MRS
RVAAP-033-R-01

40mm Firing Range MRS
RVAAP-032-R-01

700

88

82

534

303

88

5

225

Rd

Newton Falls Rd

Ravenna Warren Rd

CSX System Railroad

Michael J Kirwan Reservoir

BE
DULL



MMRP At RVAAP – Inventory Results



Site Name	Size (acres)	Type
Ramsdell Quarry Landfill	4	Disposal
Erie Burning Ground	34	Burning, Disposal
Demolition Area #2	15	Detonation
Winklepeck Burning Ground	317	Burning, Disposal
Load Line #1	164	Disposal
Load Line #2	78	Disposal, Burial
Fuze & Booster Quarry	13	Disposal
Landfill North of Wicklepeck	8	Disposal
40mm Firing Range	5	Range
Firestone Test Facility	0.25	Range
Sand Creek Dump	1	Landfill
Buildings F-15 & F-16	12	Disposal
Anchor Test Area	3	Range
Atlas Scrap Yard	66	Disposal
Block D Igloo & Transferred portion	641	Explosion
Water Works #4 Dump	6	Disposal
Area Between Buildings 846 & 849	3	Disposal
Field at the NE Corner of Intersection	92	Disposal

Blue text means the site is no longer MMRP eligible



DoD's Goals for the MMRP

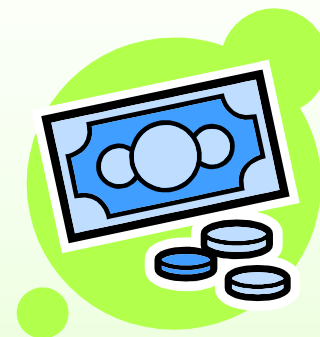


- Complete all Preliminary Assessments by 2007
- Complete all Site Inspections by 2010
- Complete all Cleanups by 2024 (Army Goal), total cost estimated at \$4.7B
- Funding to meet goals:
 - FY06 \$19M - FY07 \$35M - FY08 \$46M
 - FY09 \$143M - FY10 \$229M





Funding Strategy & Priorities



- (1) Complete Site Inspections**
- (2) Address imminent threats to human health**
- (3) Assist in property transfer at Excess Property Installations**
- (4) Conduct follow-on studies & cleanups**



MMRP Site Inspections



- **Goal of a CERCLA Site Inspection:** Collect appropriate amount of data to be able to determine next step (further investigation, interim action or no further action), includes:
 - Presence or absence of contaminants
 - Identification of imminent threats to human health
- **Goal of MMRP SI:** Same as above, plus:
 - Complete Prioritization Protocol for each site in draft
 - Collect data to assist in fine-tuning the Cost-To-Complete estimate for site
- **MMRP SI Addresses:**
 - Explosive hazards (UXO & DMM)
 - Munitions Constituent (MC) contamination



Components of an MMRP Site Inspection



Stakeholder Involvement	<ul style="list-style-type: none">• Kick-off meeting• Identification & inclusion of stakeholders
Historical Records Review (HRR)	<ul style="list-style-type: none">• Archives/records searches• Personnel interviews• HRR Report
Field Effort	<ul style="list-style-type: none">• Work Plans• Geophysical Work (UXO/DMM)• Media sampling (MC)
Documentation	<ul style="list-style-type: none">• Analysis of results• SI Report w/recommendations



RVAAP

Site Inspection Schedule

Kickoff meeting	October 05	★
Draft HRR document	May 06	★
HRR Meeting	August 06	★
Final HRR document	October 06	
Draft Field Workplan	December 06	
Final Field Workplan	February 07	
Field work	April 07	
Draft SI Report	May 07	
SI Report Meeting	August 07	
Final SI Report	October 07	

★ Activity has already occurred



QUESTIONS?

