



Fort Indiantown Gap, Pennsylvania Military Munitions Response Program



Ricochet Area Munitions Response Site Remedial Design and Action

23 April 2014

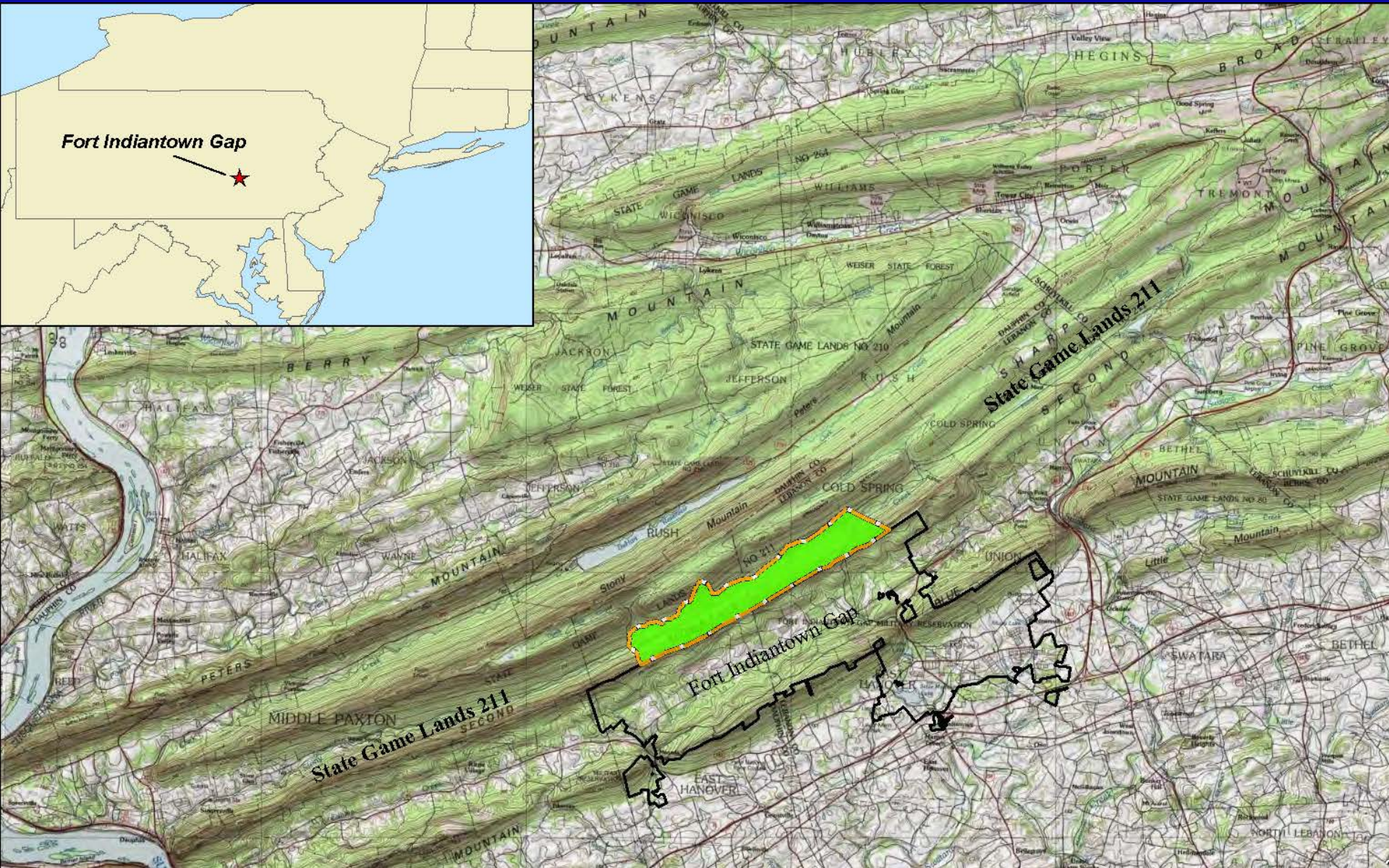


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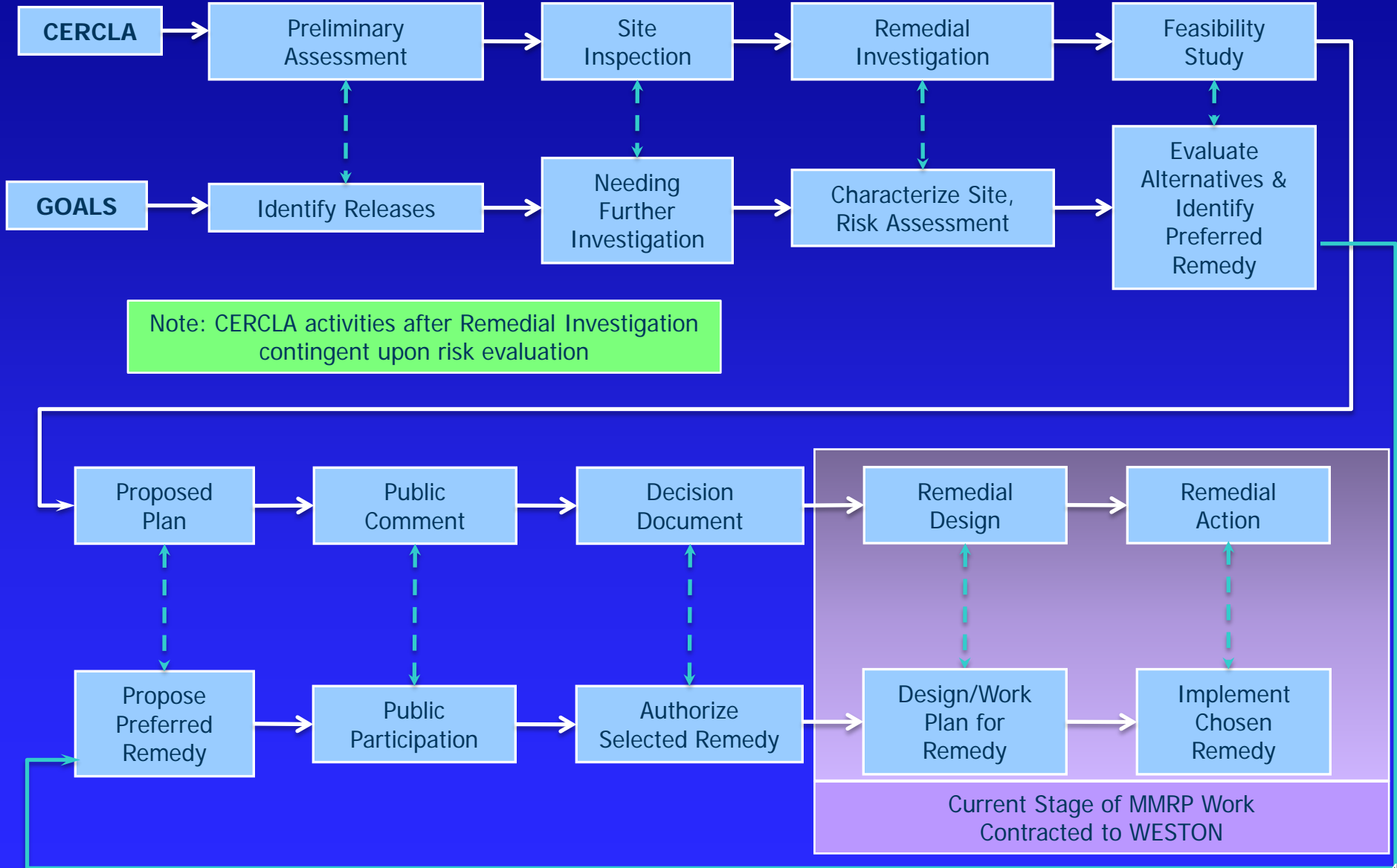
Overview

- Summary of Record of Decision
- Remedial Design
- Remedial Action
- Schedule

Ricochet Area Munitions Response Site



Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and Military Munitions Response Program (MMRP) Flow Chart



CERCLA Timeline

- 2003 - Closed, Transferred, and Transferring Inventory
 - Ricochet Area Munitions Response Site deemed Military Munitions Response Program eligible
- 2007 & 2008 - Site Inspection
 - 2007 - Historical Records Review
 - 2008 - Final Site Inspection Report
 - Recommends further assessment of munitions and explosives of concern (MEC) and munitions constituents as part of a remedial investigation

CERCLA Timeline

- 2011 - Remedial Investigation
 - Field work conducted during Spring 2010
 - Ricochet Area munitions response site footprint delineated to 3,262 acres
 - 1,334 acres of the munitions response site identified as having a high probability for encountering MEC and munitions debris

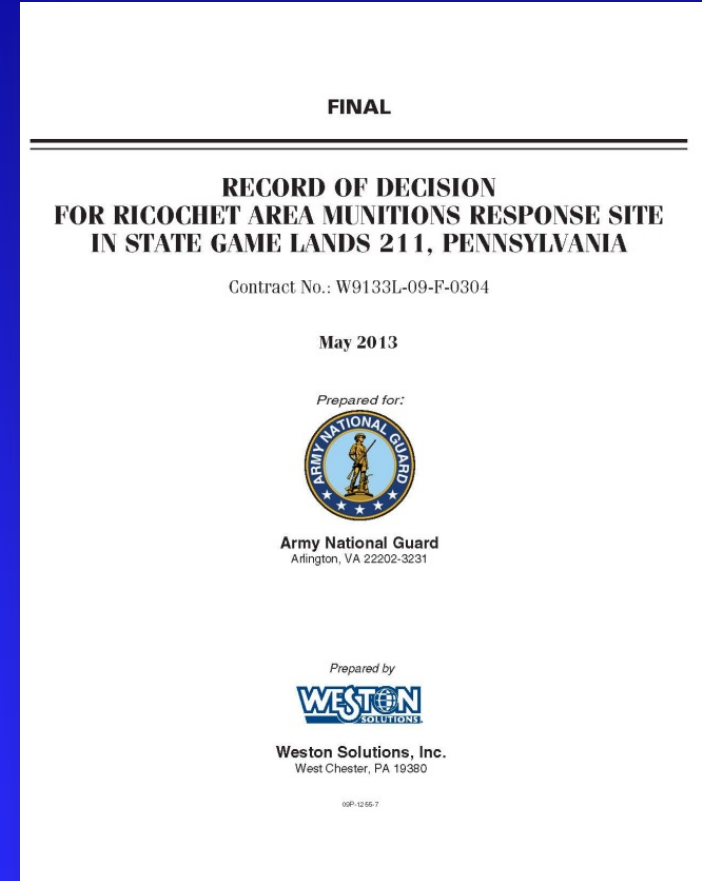
CERCLA Timeline

- 2012 - Feasibility Study
 - Identified the preferred alternative
 - **Alternative 4 - Focused Surface and Subsurface Removal of MEC with Containment and Controls**
- 2012 - Proposed Plan
 - Public notice/comment period 7 June to 6 July 2012
 - Public Meeting 21 June 2012

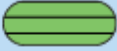




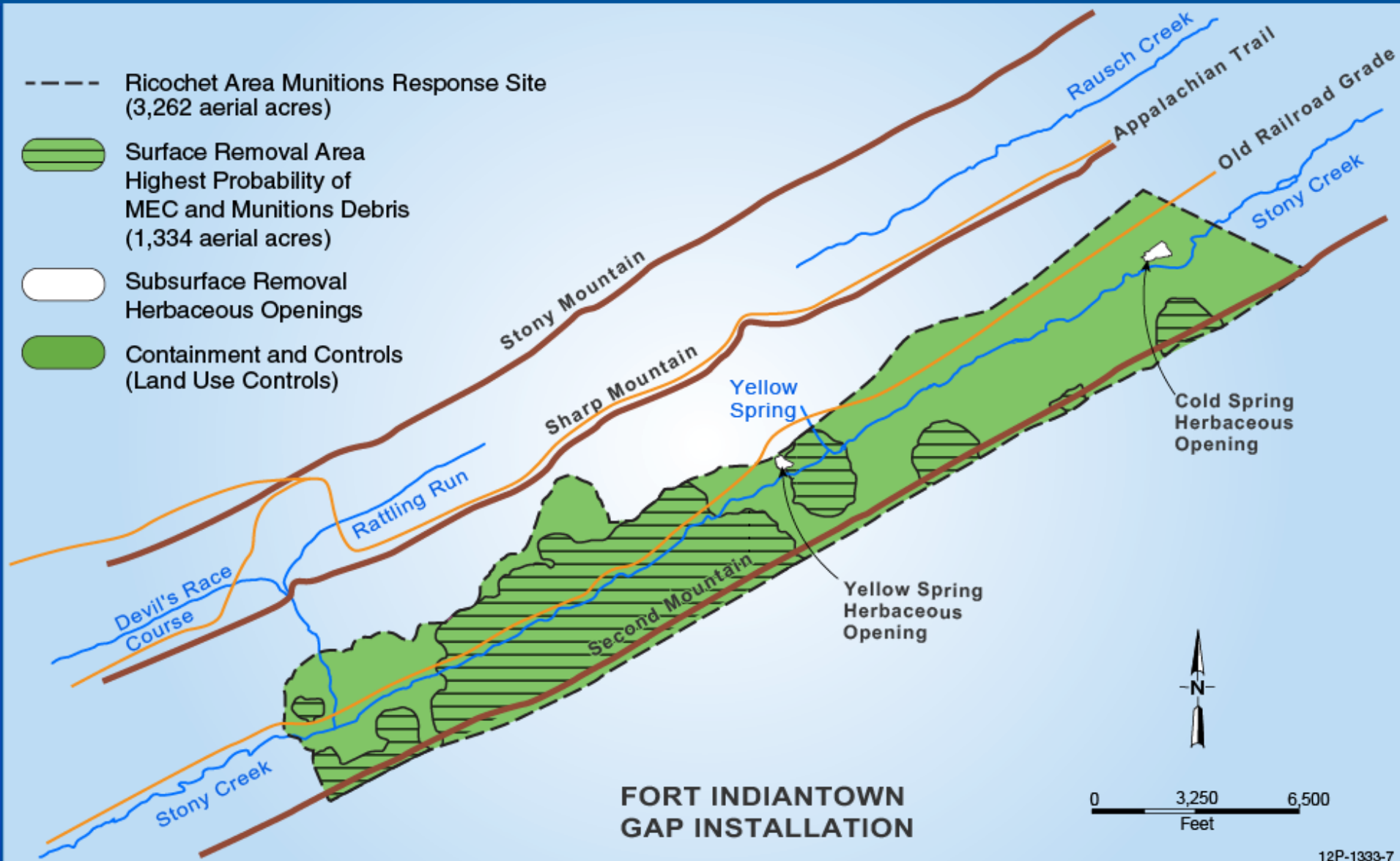
CERCLA Timeline

- 2013 - Record of Decision
 - Documents the selected remedy:
Alternative 4
 - Focused Surface Removal (1,334 acres)
 - Surface and Subsurface Removal (11 acres)
 - Containment and Controls (Land use controls)

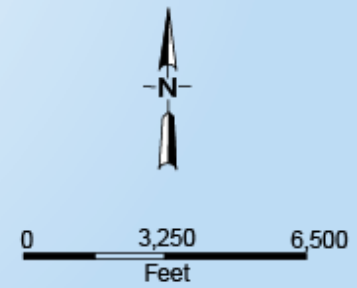


Remedial Design

- Ricochet Area Munitions Response Site (3,262 aerial acres)
-  Surface Removal Area Highest Probability of MEC and Munitions Debris (1,334 aerial acres)
-  Subsurface Removal Herbaceous Openings
-  Containment and Controls (Land Use Controls)



**FORT INDIANTOWN
GAP INSTALLATION**



Remedial Design - Objectives

- Reduce explosive safety hazards and ensure protection of human health, public safety, and the environment
- Minimize exposure to:
 - The public while maintaining access for recreational activities
 - Pennsylvania Game Commission personnel and contractors

Remedial Design - Planning

- Explosives Safety Submission
 - February 2013
- Final Remedial Design Work Plan
 - January 2014
- Final Land Use Controls Implementation Plan
 - January 2014
- Final Updated Community Relations Plan
 - March 2014

Remedial Action

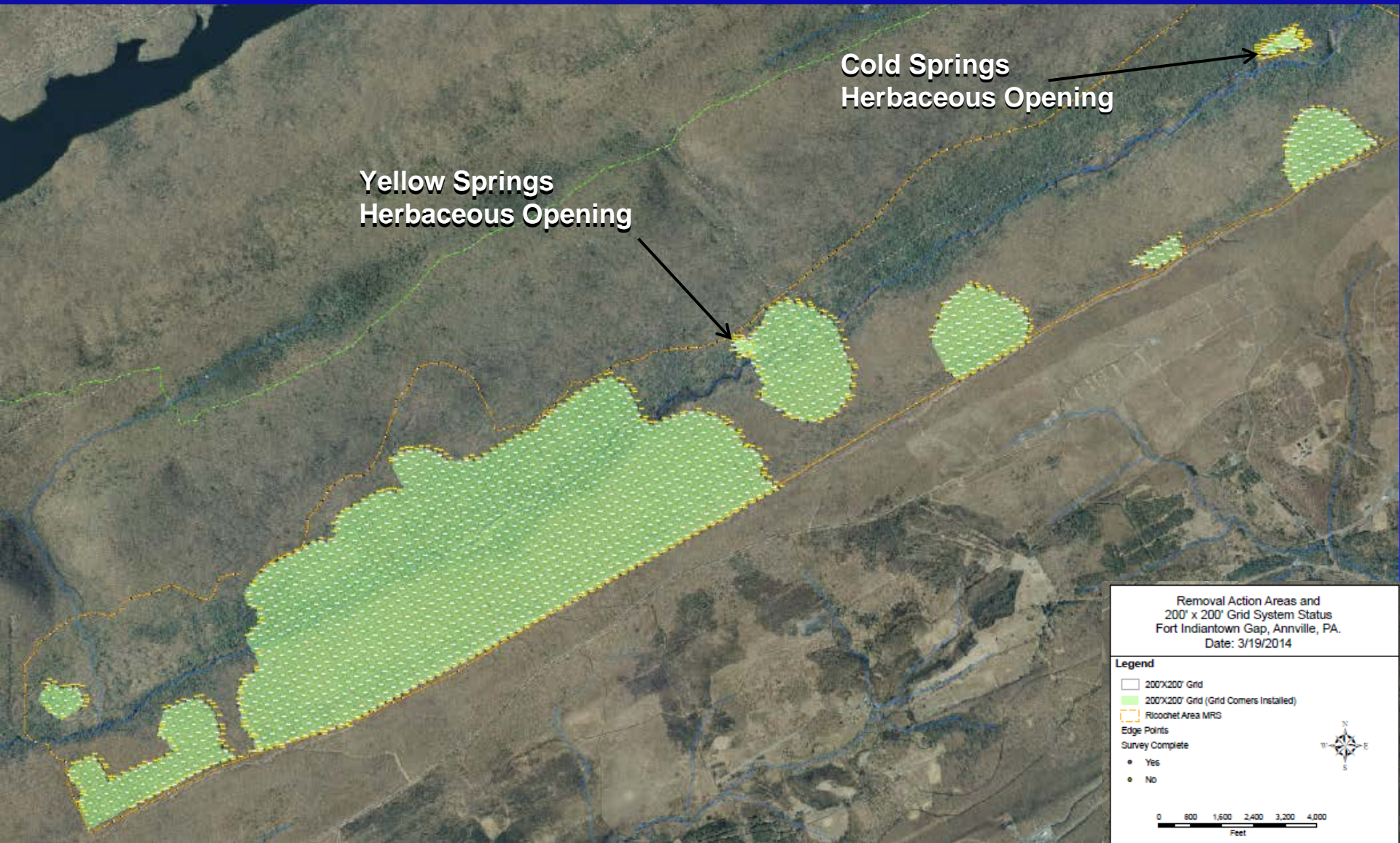
- Surface removal action: Removal of exposed or partially exposed MEC across 1,334 acres of the munitions response site
- Subsurface removal action: Removal of surface and subsurface MEC across 11 acres of the Cold Spring and Yellow Spring Herbaceous Openings
- Containment and Controls: Land use controls

Remedial Action - Survey

- Perform boundary surveys to define each removal action area
- Establish grid system across each removal action area for navigation and quality control



Remedial Action - Survey



Yellow Springs
Herbaceous Opening

Cold Springs
Herbaceous Opening

Removal Action Areas and
200' x 200' Grid System Status
Fort Indiantown Gap, Annville, PA.
Date: 3/19/2014

Legend

- 200'x200' Grid
- 200'x200' Grid (Grid Corners Installed)
- Ricochet Area MRS
- Edge Points
- Survey Complete
 - Yes
 - No



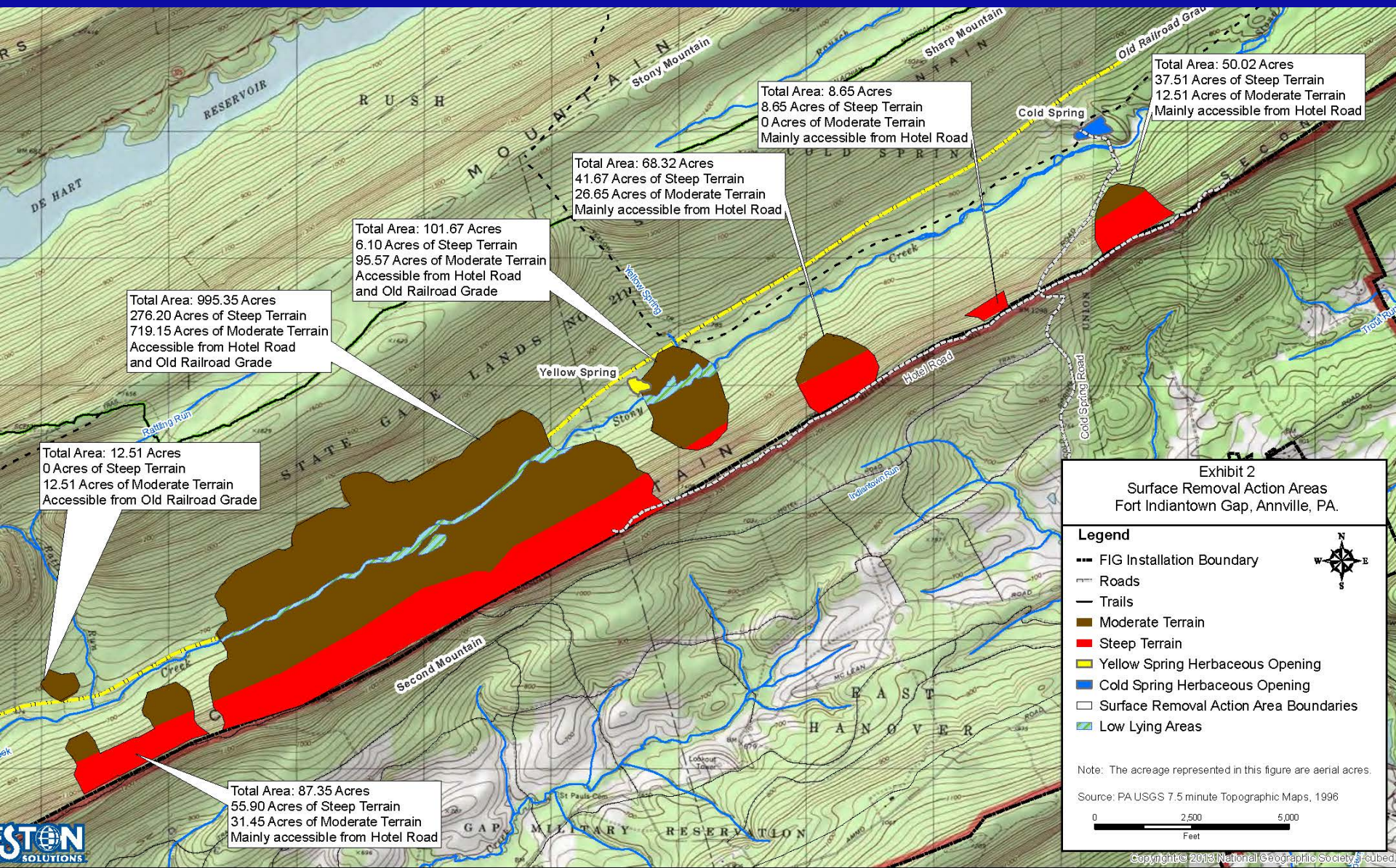
0 800 1,600 2,400 3,200 4,000
Feet

Remedial Action - Surface Removal

- Unexploded ordnance technicians will perform this work
- Utilize magnetometers to support MEC and munitions debris detection
- Complete full coverage surveys
- Remove exposed and partially exposed MEC and munitions debris that are either visible or under leaf litter



Remedial Action - Surface Removal



Removal Action - Subsurface Removal

- Digital geophysical surveys to detect MEC and munitions debris in the subsurface
- Full coverage surveys have been performed across both herbaceous openings
- Process and analyze geophysical data to select individual anomalies and potential burial pits
- Locate and dig to investigate anomalies



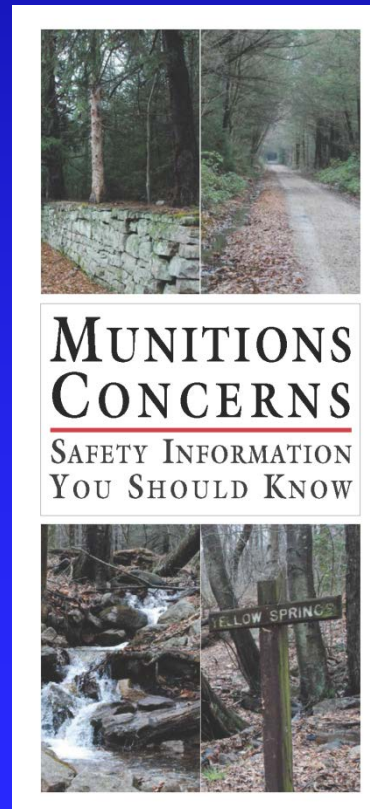
Removal Action - Explosives Safety

- Work will be performed in accordance with the Final Remedial Action Work Plan and Explosives Safety Submission
- Exclusion zones will be established during subsurface investigations and MEC demolition
- MEC will be destroyed using engineering controls (sand bags or soil cover)
- Munitions debris will be segregated, managed, and recycled



Containment and Controls / Land Use Controls

- Signs
- Brochure/Awareness Bulletin
- Awareness Video



FOR YOUR INFORMATION

POTENTIAL MUNITIONS



75 mm Projectile



155 mm Projectile



75 and 155 mm Projectiles

What do I do if I find munitions or a suspicious item?

FOLLOW THE 3Rs OF EXPLOSIVES SAFETY

R **Recognize:** Munitions are dangerous

R **Retreat:** Do not touch, move, or disturb item

R **Report:** Call 911 with description and location of item

Public Awareness

The Ricochet Area Munitions Response Site is located within State Game Lands 211. Munitions may be present due to historical training activities conducted at Fort Indiantown Gap. Munitions pose an explosive hazard if touched, moved, or disturbed.

If you see munitions or a suspicious item, follow the 3Rs: Recognize, Retreat, and Report.

For More Information:



U.S. Army Corps of Engineers
 Baltimore District
 Public Affairs Office
 P.O. Box 1715
 Baltimore, MD 21203-1715
 1-800-434-0988



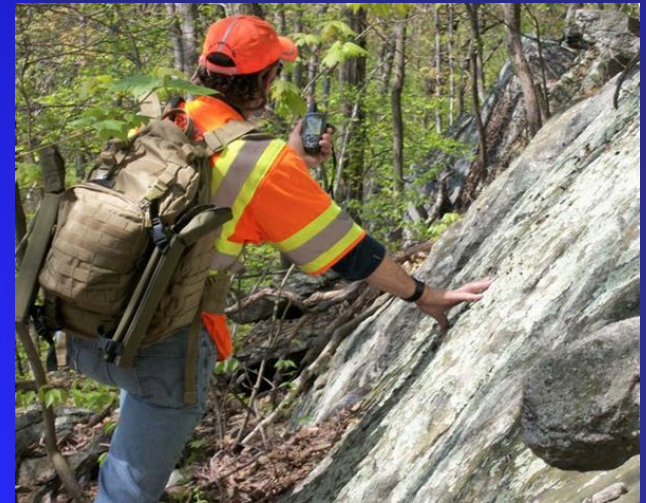
Pennsylvania
 National Guard
 Public Affairs Office
 Building 6-1, Fort Indiantown Gap
 Annullville, PA 17003-5002
 717-861-9929



Pennsylvania
 Game Commission
 Southeast Regional Office
 48 Snyder Road
 Reading, PA 19605
 610-926-3136

After Action Report

- Project activities and operations
- MEC removal action results
- Quality control activities and results
- Dig sheet data
- MEC disposition/ accountability records



Schedule

- Survey – February through April 2014
- Surface Removal – Start mid-May 2014 through July 2014
- Subsurface Removal – July 2014
- Report – Fall 2014

The United States Army

Presents

Sergeant WOOF

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 ammo—
carefully leave the area, but do not run

REPORT: Tell a parent or other adult to call 911



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

Helpful Information

- Who do I contact with questions and concerns?
 - For more information regarding the Ricochet Area Munitions Response Site contact:

Major Angela King-Sweigart
Deputy State Public Affairs Officer
Pennsylvania National Guard
Fort Indiantown Gap
Phone: (717) 861-8829
E-mail: angela.s.kingsweigart.mil@mail.mil
- What if I see a potential munitions or suspicious item?
 - Follow the 3 R's – Recognize, Retreat, Report to 911.
- How is this project going to impact my use of State Game Lands 211?
 - The project will be performed during the work week. Exclusions zones need to be maintained during field work. Schedules will be maintained and coordinated to reduce impacts to hunting and other recreational activities.



Fort Indiantown Gap, Pennsylvania Military Munitions Response Program



Questions?



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