Closed Castner Firing Range Remedial Investigation

Public Meeting

07 November 2017

6:00 – 8:00 PM

Meeting Goals

- Provide information to the community related to the Closed Castner Range project
- Present Remedial Investigation (RI) results and recommendations
- Discuss next steps
- Provide an open forum for questions and answers

Safety Moment

What Was Done in the RI

- The Remedial Investigation:
  - Characterizes/evaluates munitions response site (MRS) conditions
    - Determines the type (nature) and density and distribution (extent) of munitions in and on the ground
    - Determines the concentrations and extent of breakdown elements left behind
  - Uses Environmental Protection Agency-provided standard calculations and processes to quantify hazards and assess the risk
- What's next:
  - Development of alternatives
    - To be conducted during the next project phase
  - Future land use decisions
  - Munitions removal / remediation

RI Project Objectives

- Verify boundaries of “concentrated munitions use areas” or CMUAs
- Assess Risks to Human Health, Safety and the Environment
  - Munitions and Explosives of Concern (MEC)
  - Munitions Constituents (MC)
- Collect data needed to develop remedial alternatives for Feasibility Study phase

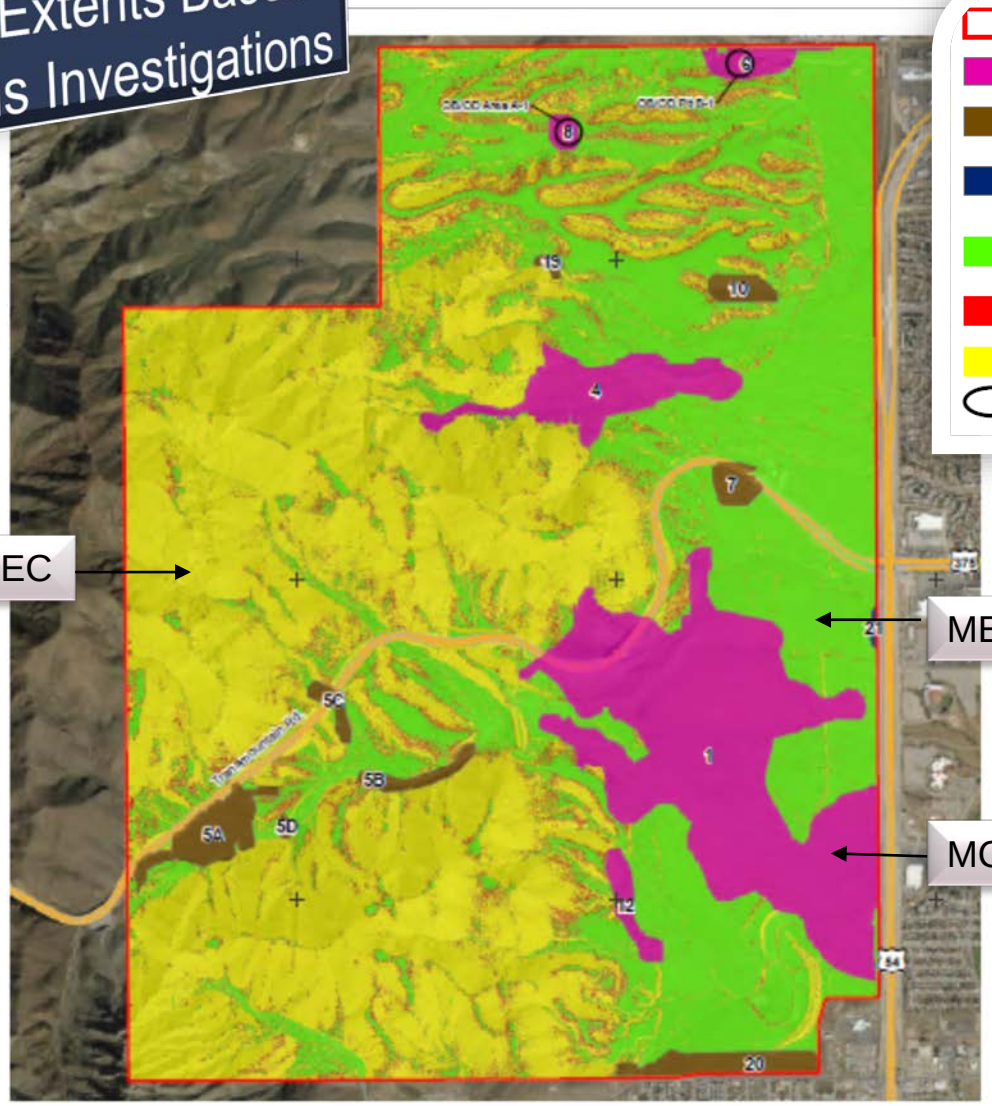
Focus of the RI

Munitions and Explosives of Concern (MEC)

Munitions Constituents (MC)

Site Overview for RI

Initial CMUA Extents Based on Previous Investigations



MEC Investigation Methods

Visual Survey Transects - Steep Slope Areas

Visual Survey Transect

Demo Shot for M19 Grenade

Analog "mag and dig"

Digital Geophysical Mapping

Intrusive Investigation

MC Investigation Methods

Incremental Soil Sampling

Berm Sampling

Soil Boring Program

Arroyo Soil Sampling

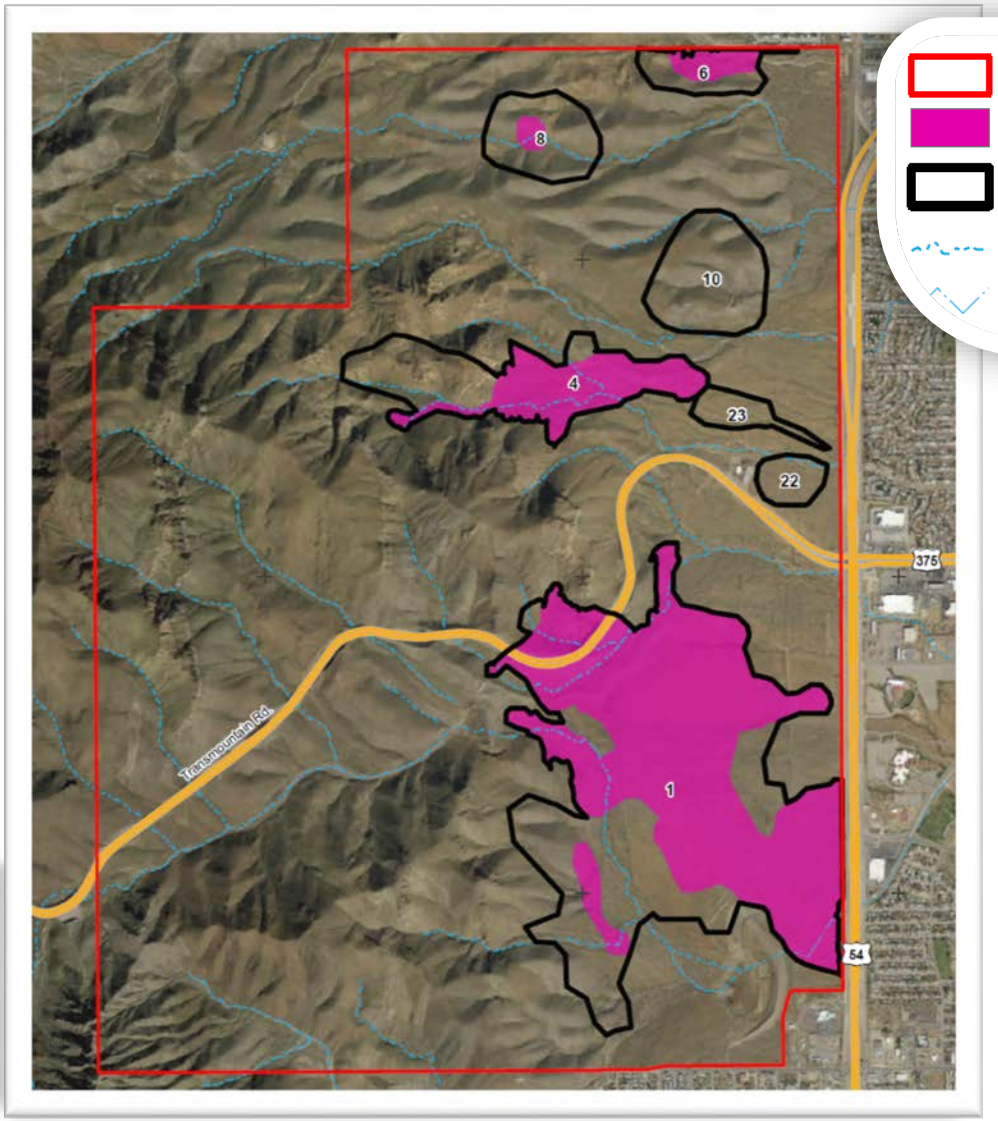
Seep Surface Water Sampling

Questions Investigated

- ✓ Are the boundaries of the CMUAs correctly identified?
- ✓ How much MEC is present inside and outside the CMUAs?
- ✓ Are MEC moving from higher to lower elevation areas?
- ✓ Are MC present inside the CMUAs? If so, are they present at elevated concentrations?
- ✓ Are MC moving off of Castner Range?

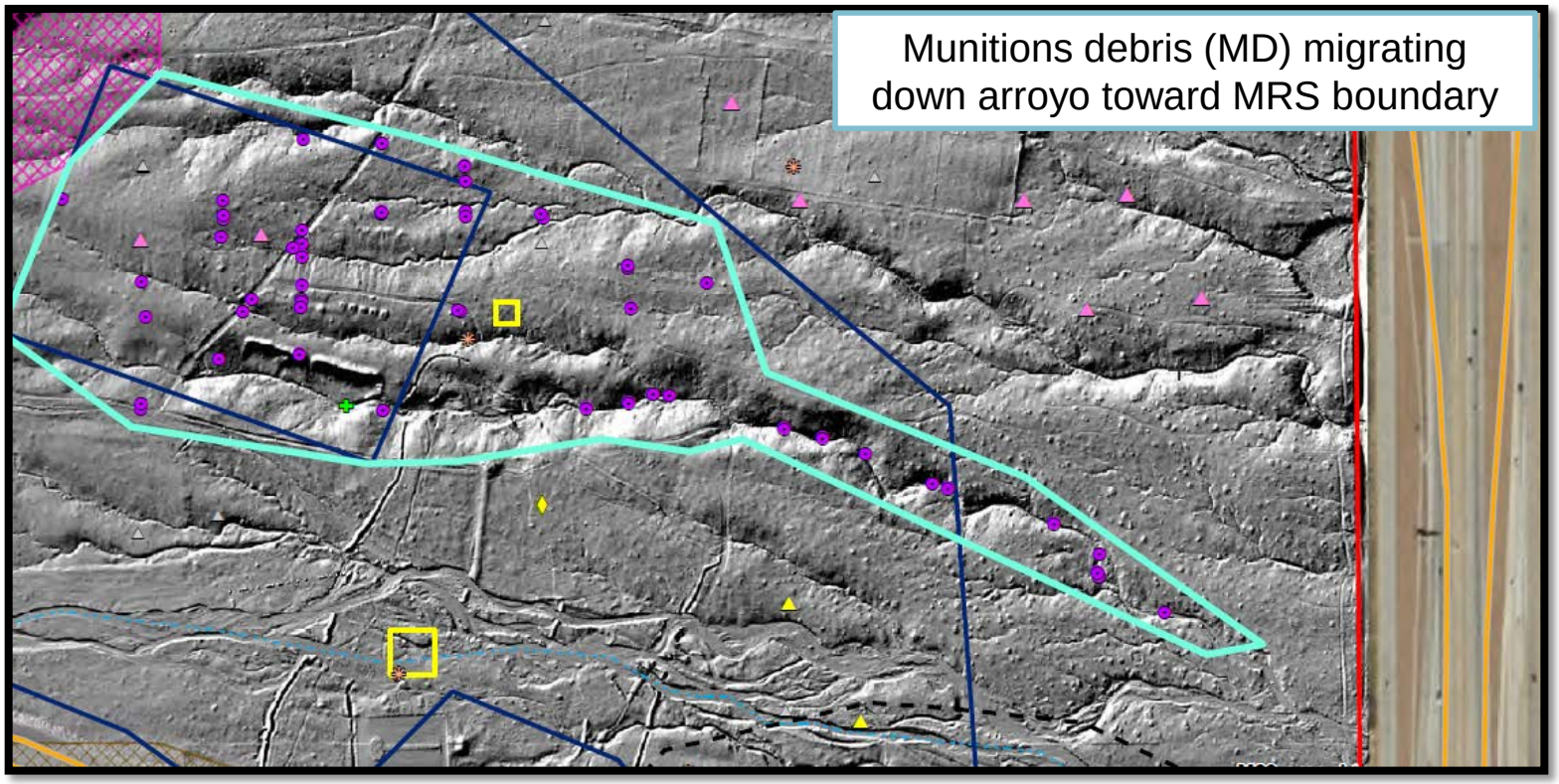
Answers!

CMUAs Require Expansion



MEC Transport Does Occur

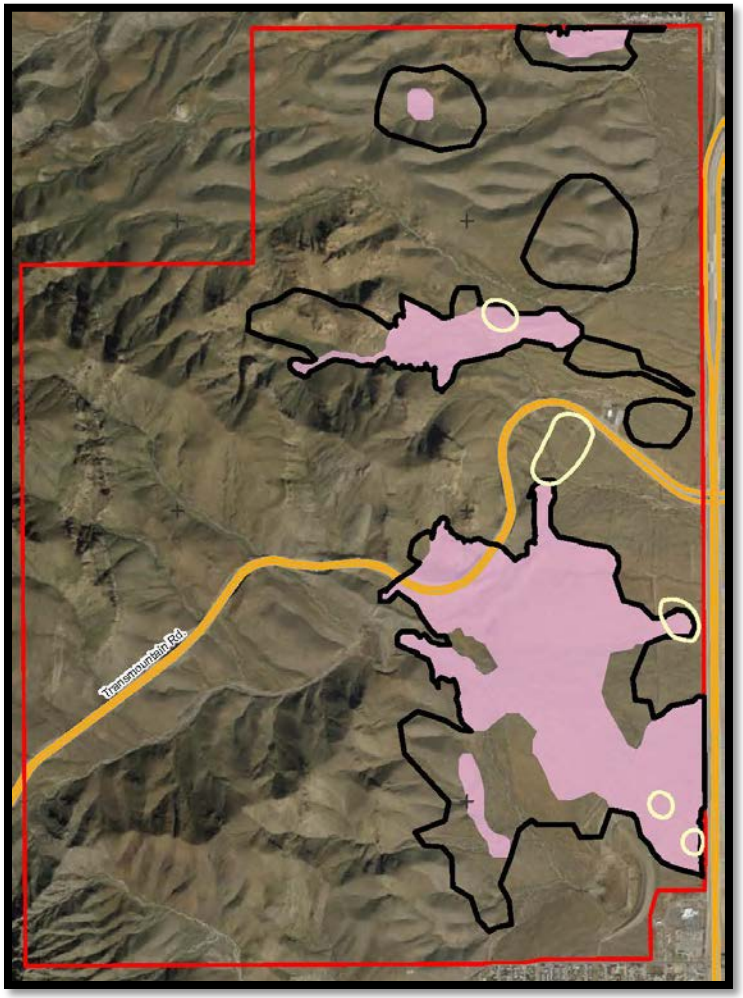
- Erosion leads to MEC movement from higher to lower elevations
- Occurring at CMUA 23; no evidence of off-post release



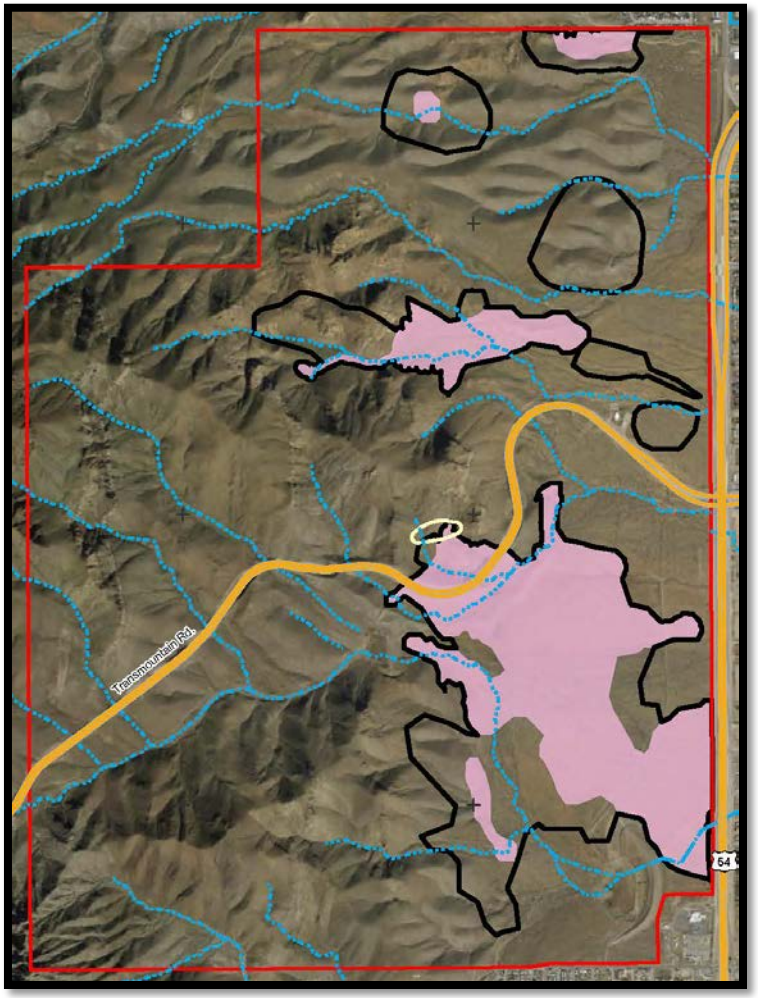
6 Areas of Elevated MC

-- Portions of the site which may require a remedy

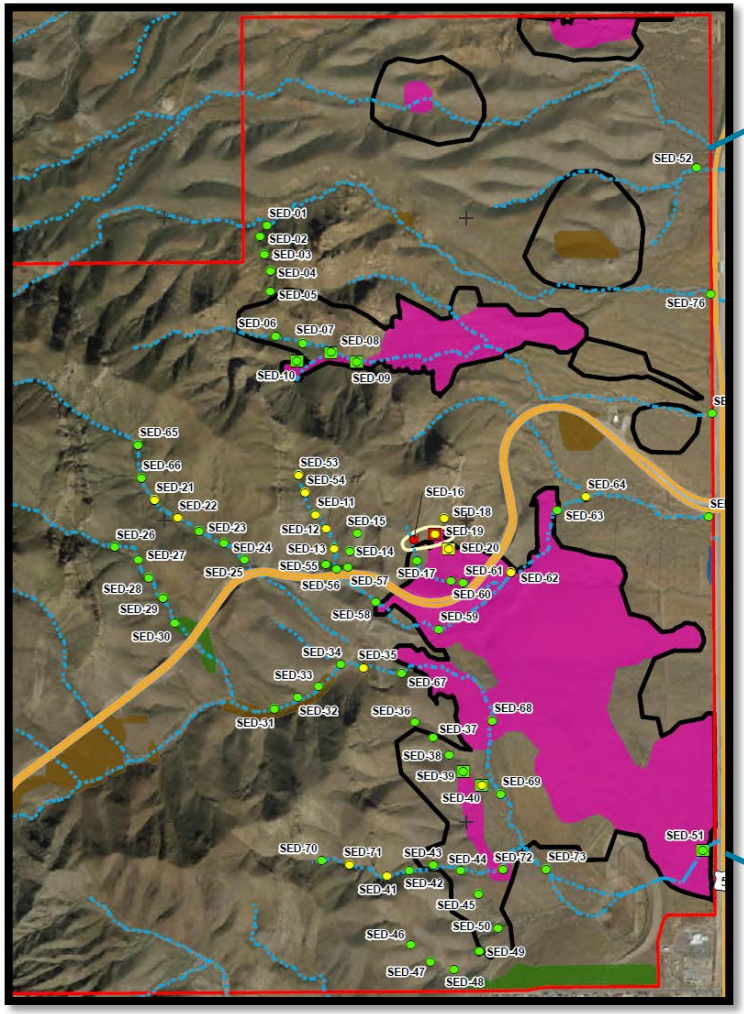
Incremental Soil Samples



Arroyo Soil Samples



No Off-Post Migration of MC



Soil concentrations at site boundary below assessment levels

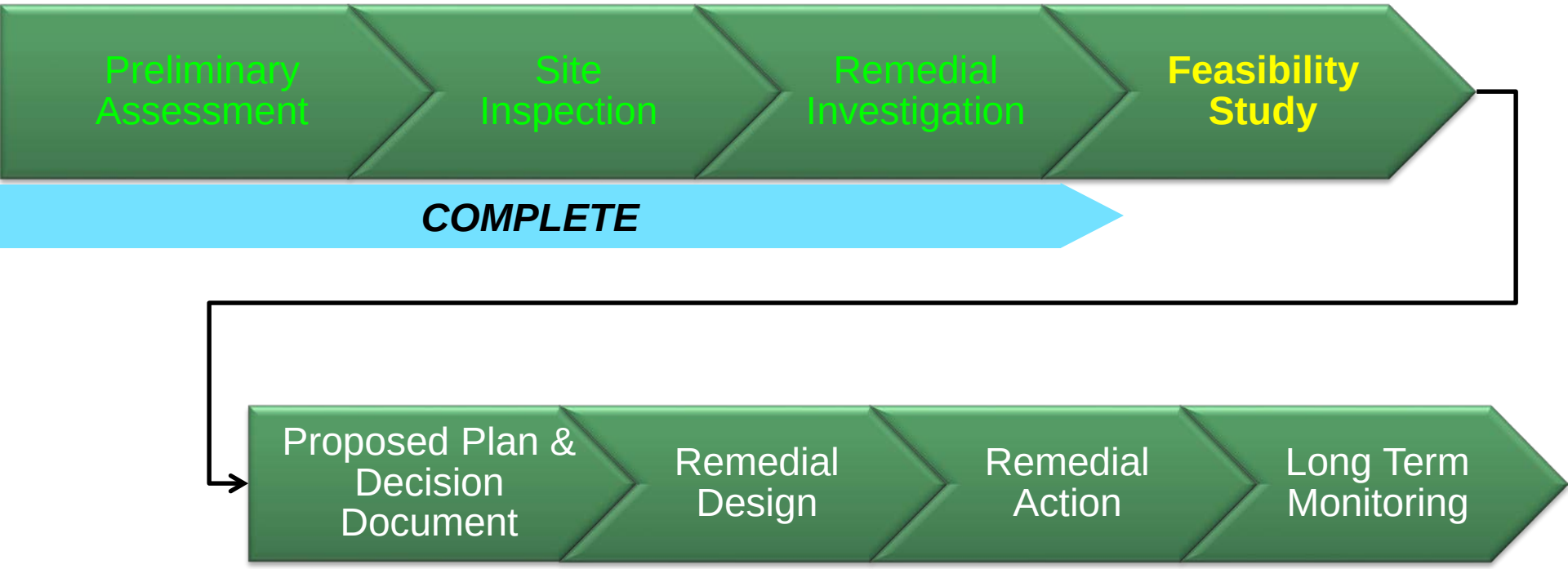
RI Findings / Recommendations

- MEC
  - CMUA boundaries require expansion
    - Remainder of MRS to be treated as “non-CMUA”
    - Non-CMUAs are *not* MEC free!
  - High MEC risk throughout Castner Range
- MC
  - 6 areas potentially pose unacceptable risk in surface soil
  - Surface water, groundwater not impacted
- Feasibility Study is Required in the Future

Where Do We Go From Here?

- Army will continue to work with the community and other stakeholders to determine future cleanup goals and remedial actions
- Future actions will be focused on safeguarding areas identified for community access where feasible within Castner Range
- Army will consider the community's interests during the Feasibility Study
- After the Feasibility Study, a proposed remedy will become available for public comment
- After public comments have been reviewed and considered, a decision document will be published marking the official selection of the remedial action

CERCLA Process: What's Next?



Feasibility Study

- Develops, screens, and evaluates MEC and MC remedial action alternatives
- Establishes remedial action objectives
- Identifies / screens applicable technologies
- Combines technologies and approaches into remedial alternatives
- Screening and detailed analysis of remedial alternatives

Possible Remedial Alternatives

Some Combination of:

- Land Use Controls
- Surface Clearance
- Subsurface Clearance
- Advanced Geophysical Classification Removals
- Long-Term Monitoring
- Other

Open Discussion

Comments / Question

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Thank You For Attending!!

And Remember: