

**FORMER LOWRY BOMBING AND GUNNERY RANGE  
ARAPAHOE COUNTY, COLORADO**

*Project Status Update*

**RESTORATION ADVISORY BOARD MEETING  
November 14, 2001**

*U.S. Army Corps of Engineers  
Colorado Department of Public Health and Environment*

November 14, 2001

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***DISCUSSION TOPICS***

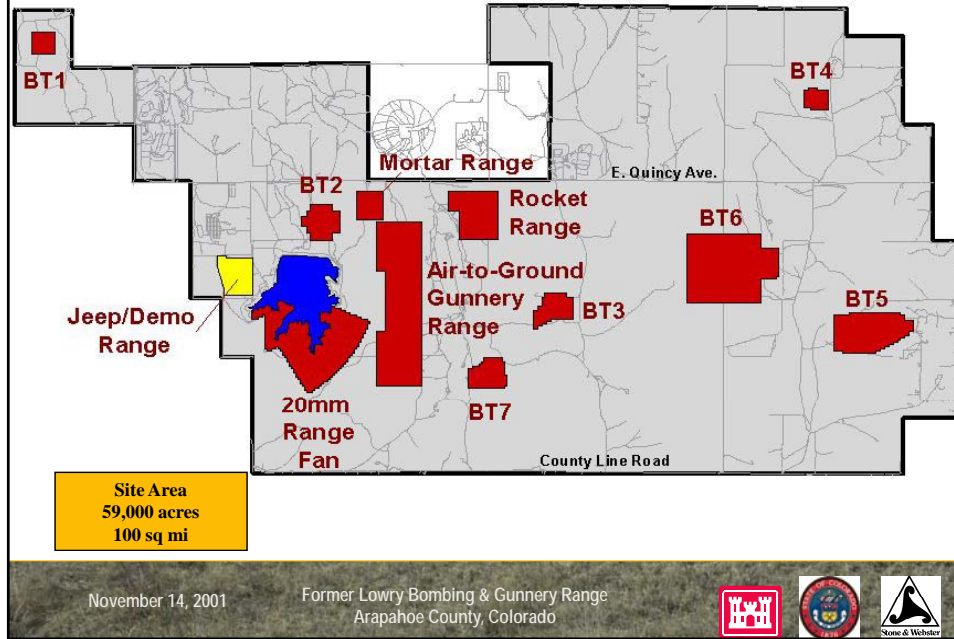
- Fieldwork Update
  - Known areas of concern
  - Team distribution
  - Estimated percent complete
  - Clearance activities to date
  - Remaining areas of concern
- SAR/HSI Status
- Project Prioritization Annual Review
- Project Funding Update
- Upcoming Project Principals' Meeting
- Summary

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## Site Map - Known Areas of Concern



## FIELDWORK UPDATE - Team Distribution

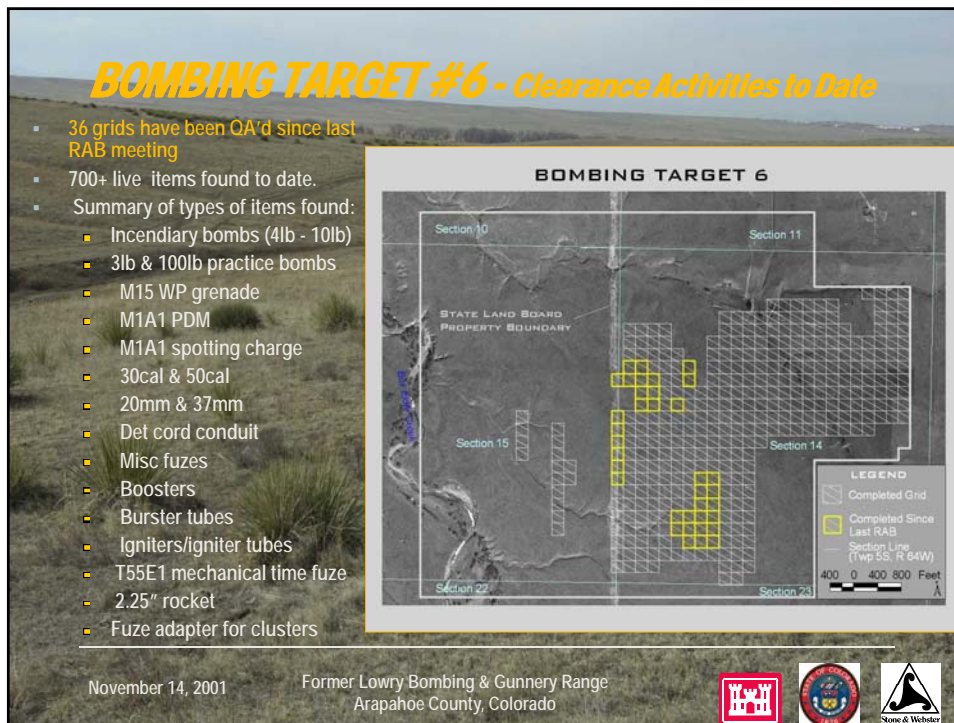
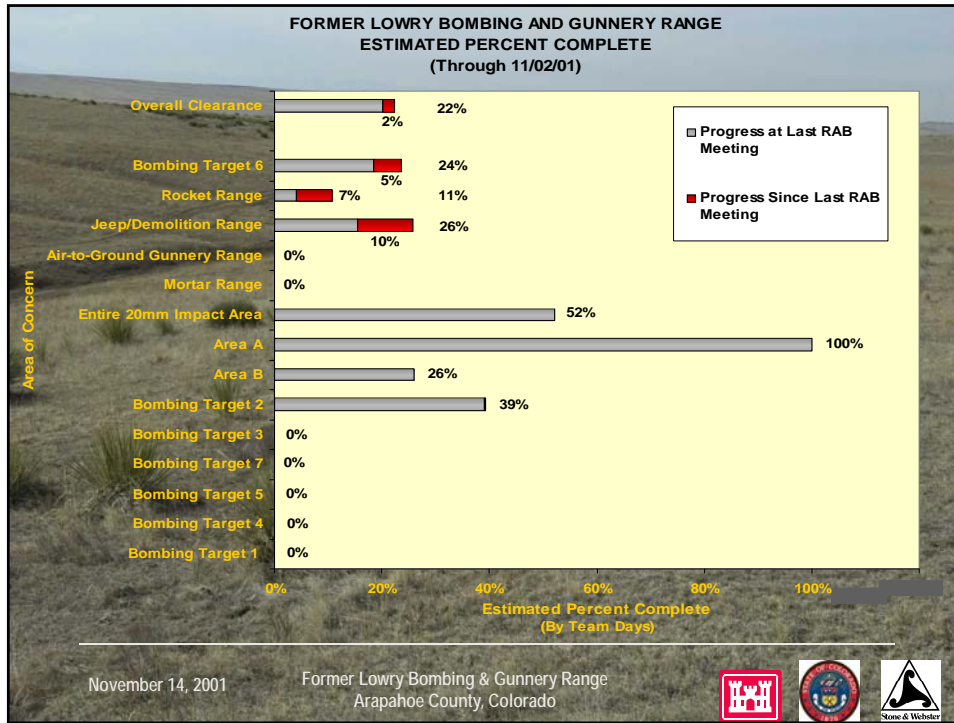
- Jeep / Demolition Range - 3 Teams
- Former Lowry Training Annex (FLTA) - 2 Teams



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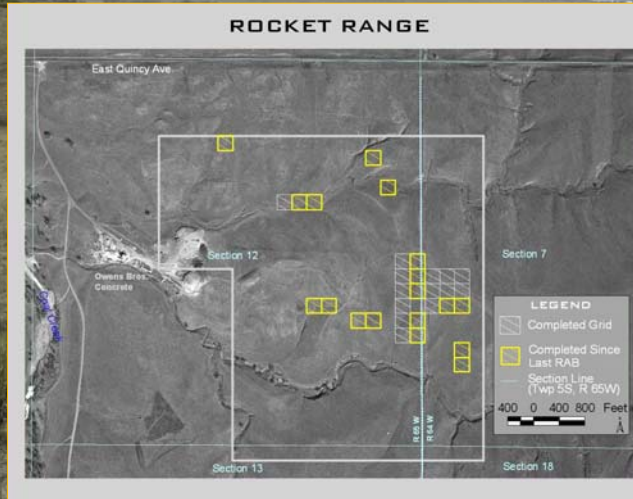
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## ROCKET RANGE - Clearance Activities to Date

- 18 grids have been QA'd since last RAB meeting
- 29 live items found to date.
- Summary of types of items found:
  - Small arms
  - 20mm Projectile
  - 3lb. Practice bomb
  - 2.25 Rocket
  - Fuzes
  - Igniter
  - 2.75 War head
  - MK76 Practice bomb



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## JEEP / DEMOLITION RANGE - Clearance Activities to Date

- 33 grids have been QA'd since last RAB meeting
- 26 live items found to date
- Summary of types of items found:
 

<ul style="list-style-type: none"> <li>▪ Incendiary bombs (4#, 6#, 10#)</li> <li>▪ Photoflash bomb and cartridges</li> <li>▪ GP Bombs (up to 2,000#)</li> <li>▪ Bomblets (BDU-28 and M139 trainer)</li> <li>▪ Anti-personnel mines</li> <li>▪ 60mm HE mortar</li> <li>▪ Parachute flares</li> <li>▪ Primer detonators</li> <li>▪ War head practice 2.75" rocket</li> <li>▪ Cartridge impulse and starter</li> <li>▪ M41 fragmentation bomb</li> <li>▪ M55 signal illumination</li> </ul>	<ul style="list-style-type: none"> <li>▪ Signal illuminating, aircraft</li> <li>▪ 2.25" rocket</li> <li>▪ M125 bomb scrap</li> <li>▪ 20mm API</li> <li>▪ M44A1 aircraft flare</li> <li>▪ JATO</li> <li>▪ 2.75" rocket motor</li> <li>▪ Misc. fuzes</li> <li>▪ Small arms</li> </ul>
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## JEEP / DEMOLITION RANGE - Air Modeling

- Teams are not currently working within the bermed area or trenches.
- Before going back into these areas, a comprehensive hazard assessment will be performed.
  - Air modeling of the area, based on historical weather conditions, will provide an evacuation distance/area
  - This evaluation is necessary to assure public safety, in the unlikely event that a chemical or biological item should be discovered in the area.



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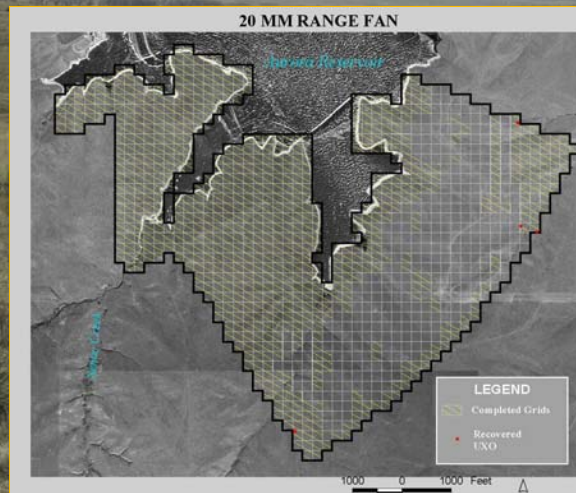
## 20mm RANGE FAN - Clearance Activities to Date

### Area B

- No grids have been QA'd since last RAB meeting
- Six live items found to date.
- Summary of types of items found:
  - 30 cal. & 50 cal.
  - 20 mm, 37mm & 75mm
  - Misc. fuzes
  - 2.75 Rocket
  - 3lb practice bomb
  - 100lb practice bomb
  - Small arms ammunition

### Area A

- 100% Complete



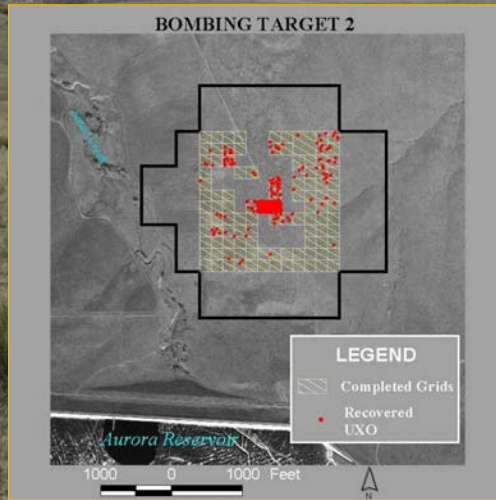
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## BOMBING TARGET #2 - Clearance Activities to Date

- No grids have been QA'd since last RAB meeting
- 1000+ live items found to date.
- Summary of types of items found:
  - Incendiary bombs (4lb to 10lb)
  - 2.25 Rockets
  - 3lb & 100lb practice bombs
  - M12 Burster tube
  - M9 Igniter tube
  - Det cord conduit
  - Misc fuzes
  - 50cal
  - 20mm, 37mm
  - M38 spotting charge
  - Boosters
  - M1A1 PDM
  - M74 WP cup
  - Blasting cap (non-electric)



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## FIELDWORK UPDATE - Remaining Areas of Concern

- Bombing Targets 1, 3, 4, 5 and 7
- Mortar Range
- AG Gunnery Range
- No intrusive clearances in these areas to date.
  - Geophysical mapping conducted to define extent of areas.
  - Surface clearances performed.
  - Test grids dug to identify the types of ordnance hazards.
- Clearance activities and/or additional investigations will be initiated as crews become available, efforts at other areas are completed, or priorities change.



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## **Synthetic Aperture Radar (SAR)/ Hyperspectral Imaging (HSI)**

- SAR/HSI team have collected data for the entire site.
- Production base level processing (approximately 10 tiles per month).
- Selective advanced processing as needed.
- Informal/iterative field verifications on-going.
- Schedule to complete is 20 months.
- Schedule limitations:
  - Funding
  - Learning curve/experience



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## **PROJECT PRIORITIZATION Annual Review**

- FLBGR Management Plan Annual Revision
  - AOC scorecards will be revised to reflect changes in site conditions that have occurred over the past year (i.e. ordnance items found, new development, etc.).
  - AOCs will be re-scored jointly by the USACE and CDPHE and brought to the RAB for review.
- Is the RAB still comfortable with the current criteria and weighting factors?

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## Project Funding Update

- Project funding is still a major issue.
  - Anticipated Fiscal Year 2002 Funding : \$5.6M
  - This will support five teams through July 2002.
  - If additional funding is not forthcoming, we may layoff a team(s) in Winter 2002.
  - Utilizing teams at FLTA delays layoffs until FLBGR funding resolved.
- Additional funding may be available through the Defense Authorization Act "FUDS plus-up".
- CDPHE actively addressing funding shortfalls.

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## Project Funding Update

- Major impacts from funding shortfall:
  - Delay in the overall project schedule
  - Cost to complete continues to escalate due to funding shortfalls
  - Jeep/Demo Range clearance may not be complete before school opening
  - Potentially significant delays in developments across the Range
  - Team layoffs
  - Revisit existing site infrastructure

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## **Project Principals' Meeting**

- Next Principals' Meeting: December 13, 2001
- New USACE Commanders:
  - Northwestern Division Commander: COL(P) David A. Fastabend
  - Omaha District Commander: LTC(P) Kurt F. Ubbelohde
- Are there any messages for us to take to the meeting?

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## **SUMMARY**

- We are working
- Stakeholder involvement continues to be positive.
- We have significant challenges
  - ✓ funding
  - development of range



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