

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

***RESTORATION ADVISORY BOARD MEETING
July 16, 2003***

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

DISCUSSION TOPICS

- **Fieldwork update**
- **Jeep/Demolition
Range RCWM
activities**
- **Annual project
prioritization review**
- **2004 RAB meeting
schedule**
- **Summary**

FIELDWORK UPDATE

TEAM DISTRIBUTION

Total number of personnel working on the FLBGR project is approximately 90 people.

- BT6 - 2 Teams
- FLTA - 2 Teams
- Jeep/Demo – 1 RCWM Team

JEEP/DEMO RANGE - Clearance Activities to Date

- No grids have been completed since last RAB meeting.

- 51 live items found to date.

- Summary of types of items found:

- Incendiary bombs (4#, 6#, 10#)
- Photoflash bomb and cartridges
- GP Bombs (up to 2,000#)
- Bomblets (BDU-28 and M139 trainer)
- Anti-personnel mines
- 60mm HE mortar
- Parachute flares
- Primer detonators
- War head practice 2.75" rocket
- Cartridge impulse and starter
- M41 fragmentation bomb
- M55 signal illumination
- Signal illuminating, aircraft
- 2.25" rocket
- M125 bomb scrap
- 20mm API
- M44A1 aircraft flare
- JATO
- 2.75" rocket motor
- Misc fuzes
- Small arms
- CAIS

BOMB TARGET #6 - Clearance Activities to Date

- 7 grids have been completed since last RAB meeting.
- Significant amount of live items found on State Land Board property.
- 700+ live items found to date.
- Summary of types of items found:
 - Incendiary bombs (4lb - 10lb)
 - 3lb & 100lb practice bombs
 - M15 WP grenade
 - M1A1 PDM
 - M1A1 spotting charge
 - 30cal & 50cal
 - 20mm & 37mm
 - Det cord conduit
 - Misc fuzes
 - Boosters
 - Burster tubes
 - Igniters/igniter tubes
 - T55E1 mechanical time fuze
 - 2.25" rocket
 - Fuze adapter for clusters
 - M125 – simulant filled

ROCKET RANGE - Clearance Activities to Date

- No grids have been completed since last RAB meeting.
- 34 live items found to date
- Summary of types of items found:
 - Small arms
 - 20mm
 - 3lb. practice bomb
 - 2.25" rocket
 - Misc fuzes
 - Igniters
 - 2.75" war head
 - MK76 practice bomb
 - 3.5" rocket motor

20mm RANGE FAN - Clearance Activities to Date

Area B

- No grids have been completed 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

Area A

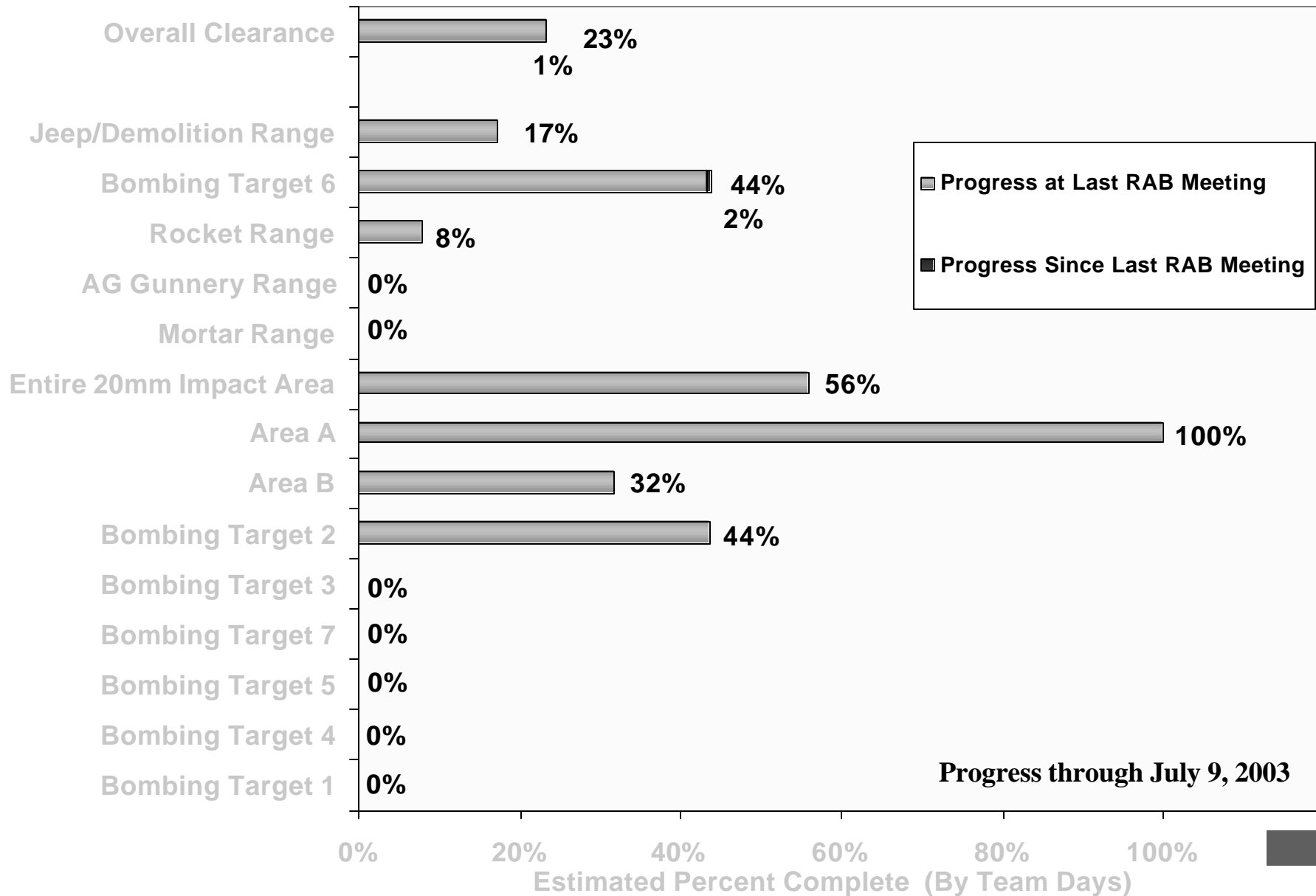
- 100% complete

BOMB TARGET #2 - Clearance Activities to Date

- No grids have been completed 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)

FIELDWORK UPDATE

ESTIMATED PERCENT COMPLETE



J/D RANGE RCWM ACTIVITIES - Status

- **May 12-16th : Site mobilization**
- **May 19-23rd : Training and Table Top**
- **May 26th-30th : CEHNC Survey**
- **June 16-19th : Pre-operational Survey (Pre-Op)**
 - **Coordinated by Department of Army Safety Office and U.S. Army Technical Center for Explosives Safety (USATCES)**
 - **Field scenarios were run to test preparedness of the field team**
 - **Results of Pre-Op were a “go” for fieldwork to begin**
 - ✓ **Field team performed very well during the Pre-op**
 - ✓ **Formal approval letter to begin operations was received on June 27th, 2003.**

J/D RANGE RCWM ACTIVITIES - Status

- Four of the potential RCWM targets identified by the geophysical discrimination efforts have been excavated to date:
 - Target #1 – Bomb fragment
 - Target #2 – Non-OE Scrap
 - Target #3 - Magnetic soil only (i.e. soil containing a measurable percentage of ferromagnetic minerals)
 - Target #4 (in progress) – CAIS bottles

J/D RANGE RCWM ACTIVITIES - Status

Productivity is extremely low due to ECS (tent) requirement:

- Very time-consuming (approximately 3 days) to assemble, disassemble, and move tents and support equipment.
- Labor-intensive and costly
- Weather conditions (i.e. high winds, lightening, etc.) can delay set-up and impact productivity
- Weather may damage tents – requiring repairs or replacements and possibly impact productivity.

J/D RANGE RCWM ACTIVITIES - Status

- **Target #1:**
 - Intrusive operations: approximately 30 minutes
 - Tent disassembly, relocation and set-up of tent and associated equipment: approximately 3 days
- **Target #2:**
 - Intrusive operations: approximately 15 minutes
 - Tent disassembly, relocation and set-up of tent and associated equipment: approximately 3 days
- **Target #3:**
 - Intrusive operations: approximately 45 minutes
 - Tent disassembly, relocation and set-up of tent and associated equipment: approximately 3 days
- **Target #4: In progress**

J/D RANGE RCWM ACTIVITIES - Status

Team is revisiting ECS (tent) requirement because:

- Cost and time associated with handling of tents could negatively impact project schedule by months or years
 - ▣ Current funding anticipated to last until September 2003
 - ▣ No secured FY04 funding for RCWM efforts

J/D RANGE RCWM ACTIVITIES - Status

- **REMEMBER:**
 - Utilization of tents was due to public perception and political pressures
 - Tents are not “technically” required, exclusion zone for munition of concern is 473 feet
 - Eliminating tents will not increase the “real” risk to public safety

J/D RANGE RCWM ACTIVITIES - Status

- Proposed alternative is to:
 - Excavate pits/trenches and known RCWM locations with a tent
 - Excavate other single potential RCWM anomalies without a tent
 - If a potential RCWM item is found while excavating outside the tent:
 - ✓ Stop work
 - ✓ Assemble tent over area
 - ✓ Resume excavations

J/D RANGE RCWM ACTIVITIES - Status

Discussions with Stakeholders:

- TAPP brief to Dove Hill Homeowners' Association
 - If required previously, why not now?
- SHORE
 - CDPHE concurrence
 - Cherry Creek High School Support
 - SHORE members not conducting any development work within areas subject to evacuation
 - Revisit August 15, 2003
- CDPHE
 - Informal concurrence
 - Contingency Plan (Site Wide)
- RAB discussion

ANNUAL PROJECT PRIORITIZATION REVIEW

Annual project prioritization review scheduled for the next RAB meeting, September 17, 2003 at the Aurora Public Library.

- Re-visit the prioritization criteria and weighting factors.
- AOC scoring will be performed by Keith Wegner with input provided by the site personnel, as appropriate.

2004 RAB MEETING SCHEDULE

- The 2004 RAB meeting proposed dates are as follows:
 - January 21, 2004
 - March 17, 2004
 - May 19, 2004
 - July 21, 2004
 - September 15, 2004
 - November 17, 2004

SUMMARY

- Conventional OE response activities on-going
- J/D Range RCWM activities on-going
- Project team continues to work together to execute on-going project activities as effectively as possible
- The next RAB meeting is scheduled for September 17, 2003 at the Aurora Library (6:00-8:30pm)