



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



RESTORATION ADVISORY BOARD MEETING

May 18, 2005

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

DISCUSSION TOPICS

- **Fieldwork update**
- **Innovative technology**
- **Fixed-Price Remediation
with Insurance (FPRI) pilot
project**
- **Summary**

FIELDWORK UPDATE Team Distribution

- **Bombing Target 6 – 3 munitions response teams**
- **Rocket Range – 4 munitions response teams**
- **J/D Range – 1 geophysics team (plan to move munitions response teams back into J/D Range later this week)**

FIELDWORK UPDATE Bombing Target 6

- **52 grids completed since last RAB meeting**
- **912 live items found to date**
- **Summary of types of items found:**

- ✓ Incendiary bombs (4lb-10lb)
- ✓ 3lb & 100lb practice bombs
- ✓ M15 WP grenade
- ✓ 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

FIELDWORK UPDATE Bombing Target 6

▪ **19 demolition shots performed since last RAB meeting**

- ✓ M74 10 lb. incendiary bomb – 4
- ✓ M50 4 lb. incendiary bomb – 2
- ✓ Booster cup – 4
- ✓ Fuze bomb M1 – 2
- ✓ Fuze bomb M142 – 3
- ✓ Fuze bomb M152 – 8
- ✓ Fuze bomb M196 – 3
- ✓ Fuze bomb E24 – 2
- ✓ Parachute Delay Mech. - 2

▪ **Summary of items recovered since last RAB meeting:**

MUNITION	QUANTITY
OE Scrap	2,791 (pounds)
Small Arms	373
Bomb M74 10 lb. Incendiary	15
Bomb M50 4 lb. Incendiary	46
Booster Cup	46
Frag Bomb	2
Frag Bomb HE	2
Fuze Bomb M1	2
Fuze Bomb M142	10
Fuze Bomb M152	26
Fuze Bomb M196	4
Fuze Bomb E24	2
Primer Detonator	1
Rocket 2.25	1
Bomb M38 100 lb. Practice	8
Parachute Delay Mech	6

FIELDWORK UPDATE Jeep/Demolition Range

- **3 grids completed since last RAB meeting**
- **315 live items found to date**
- **Summary of types of items found:**

- ✓ Incendiary bombs (4lb-10lb)
- ✓ 3lb & 100lb practice bombs
- ✓ Bomblets
- ✓ Rifle grenade
- ✓ M44A1 aircraft flare
- ✓ 30cal & 50cal
- ✓ Det cord conduit
- ✓ 20mm, 30mm, 40mm and 75mm projectiles
- ✓ Misc fuzes
- ✓ Burster tubes
- ✓ Igniters/igniter tubes
- ✓ Signal Illumination
- ✓ Rocket war heads
- ✓ Cartridges
- ✓ Parachute flare

FIELDWORK UPDATE Jeep/Demolition Range

▪ **13 demolition shots performed since last RAB meeting**

- ✓ Projectile 20mm HEI – 178
- ✓ Projectile 20mm Incendiary – 9
- ✓ Projectile 20mm API – 1
- ✓ Fuze Projectile 20mm – 20
- ✓ Fuze M75 20mm – 5
- ✓ Primer Igniter – 44
- ✓ Ballistite – 1
- ✓ Rifle Grenade - 1

▪ **Summary of items recovered since last RAB meeting:**

MUNITION	QUANTITY
OE Scrap	8,192 (pounds)
Small Arms	1,992
Burster Tube	1
Projectile 20mm	7,677
Fuze Projectile 20mm	18
Cartridge 20mm	64
Rocket 2.75 Practice	1
Bomb M69 6 lb. Incendiary	1
Projectile 30mm	32
Bomb M50 4 lb. Incendiary	4
Bomb M74 10 lb. Incendiary	3
Fuze Bomb M1	1
War Head Rocket 2.75 Practice	5
Igniter Tube	1
Fuze M75 20mm	6
Primer Igniter	37
Ballistite	2
Rifle Grenade	6
Trip Flare M48	3
War Head Rocket 5 inch	1

FIELDWORK UPDATE Geophysical Mapping

▪ **Supplemental to mag-and-dig efforts**

- ✓ Hot rock discrimination
- ✓ Low density grids
- ✓ 80 grids

FIELDWORK UPDATE Rocket Range

- 13 grids completed since last RAB meeting
- 35 live items found to date
- Summary of types of items found:

- ✓ 3lb and 100lb Practice bombs
- ✓ Electric Squib
- ✓ Misc Fuzes
- ✓ Igniter
- ✓ 81mm Mortar HE
- ✓ 20mm & 75mm
- ✓ 2.25' Rocket
- ✓ 2.75' and 3.5' Rocket Motor
- ✓ Primer Detonator
- ✓ 30cal & 50cal
- ✓ War Head Rocket

FIELDWORK UPDATE Rocket Range

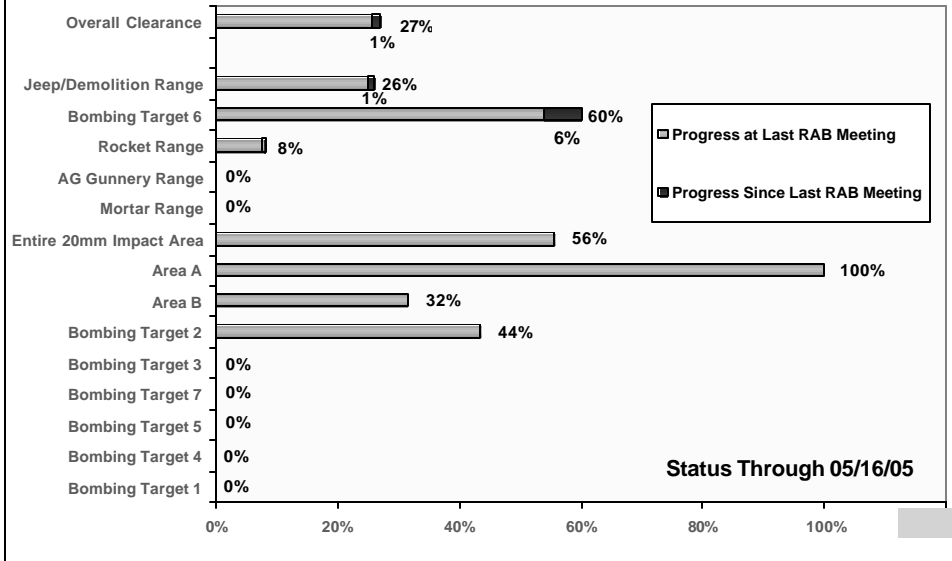
- 4 demolition shots performed since last RAB meeting

- ✓ M50 4 lb. incendiary – 2
- ✓ 2.25" rockets and 20mm projectiles vented

- Summary of items recovered since last RAB meeting:

MUNITION	QUANTITY
OE Scrap	6,730 (pounds)
Small Arms	10,399
Projectile 20mm	760
Bomb MK23 3 lb. Practice	160
Rocket 2.25	111
Mortar 81mm HE	1
Projectile 75mmHE	1
Bomb M50 4 lb. Incendiary	2
Bomb M38 100 lb. Practice	20
Igniter M23 w/Fuze	4
Electric Squib	21
Rocket Motor 2.75	2
Fuze Adapter for Clusters	3
War Head Rocket 2.75 Practice	1

FIELDWORK UPDATE Estimated Percent Complete



FIELDWORK UPDATE Airborne Magnetometer Characterization

Objectives:

- **Define the relative extent of AOC target boundaries**
 - ✓ Provide defensible data for defining extents of AOCs
 - ✓ Refine cost and schedule estimates
- **Define the relative density of anomalies across AOCs**
 - ✓ Define “map and dig” versus “mag and dig” boundaries
 - ✓ Apply most cost-efficient clearance approach
- **Define target areas in AGGR**

FIELDWORK UPDATE
Airborne Magnetometer Characterization

Schedule

May 2005

- Bell 206 Long Ranger and Magnetometer Platform at Centennial Airport hangar for installation
- Shakedown and test flights over FLBGR Test Plot

June 2005

- Production flights (data collection)
- Data processing and analysis

July 2005

- Data validation of AOCs

INNOVATIVE TECHNOLOGY

- See handout

FPRI UPDATE

- **Scope**

- ✓ Obtain MEC response complete

- **Activities since last meeting**

- ✓ Geophysical Prove Out Plan
- ✓ Work Plans
- ✓ ESS amendment

- **Mobilization to begin field activities scheduled in June 2005**

THE END

- **Your next RAB meeting is scheduled for July 20, 2005 (6:00-8:30pm) at the Doubletree Hotel**