

# USACE Range Support Center

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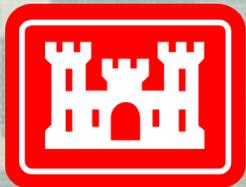
**John Jackson**

Geophysicists, MOTCO

**James Austreng**

Project Manager, Beale

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**US Army Corps  
of Engineers®**

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# Discussion Topics

- RSC Organization
- Capabilities
- Customers
- Ft. Irwin (SPL)
- Ft. Ord (SPK)
- Ft. Wingate (SWF)
- MOTCO (SPK)
- Camp Beale

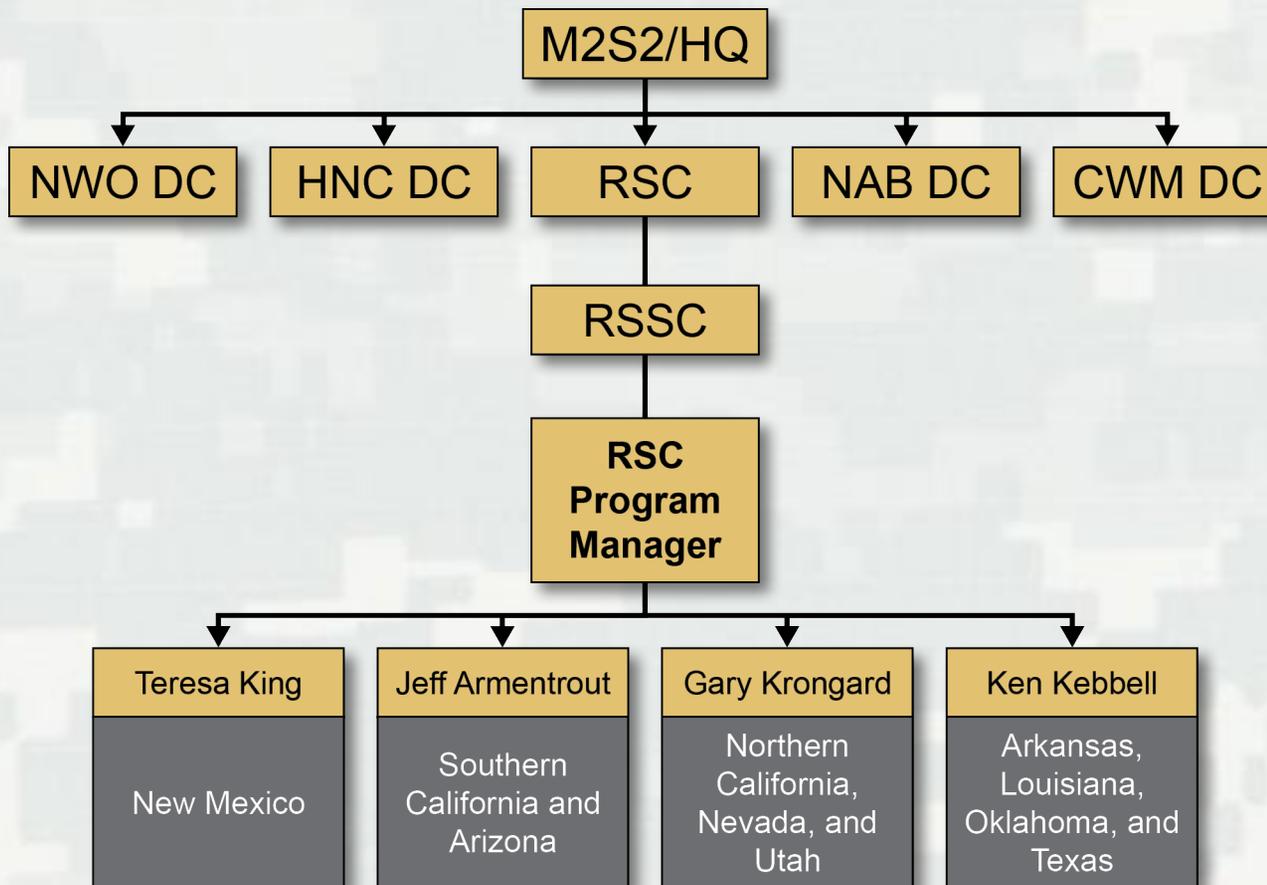


# RSC Organization

- The Range Support Center is one of four U.S. Army Corps of Engineers military munitions design centers.
- The RSC is a regional organization with project delivery teams staffed with technical experts from five USACE Districts: Albuquerque, Ft. Worth, Los Angeles, Sacramento, and Tulsa.



# RSC Organization



## RSC Specialties

- Chemists
- Civil/Environmental Engineers
- Electrical/Mechanical Engineers
- Geochemists
- Geologists
- Geophysicists
- Ordnance & Explosive Safety Specialists
- Project/Program Managers
- Public Affairs Specialists
- Real Estate Specialists
- Risk Assessors
- Structural Engineers



# RSC Capabilities

- Range maintenance
- Management and execution of all phases of M2S2 projects
- Anomaly Avoidance/Safety Escort Support
- Probability Assessments
- Underwater/Marine Investigations
- Long Term Management
- Safety education and training
- Five contract offices experienced in military munitions awards (PBA, FFP, ID/IQ)



# RSC Projects - Ft. Ord

- Munitions Response Remedial Action (RA) program over 6700 acres range area
- Ranges subdivided into Units of ~200-400 acres
- Prescribed burning clears vegetation while facilitating endangered/threatened flora lifecycle.
- Burn Unit RA sequence: perimeter mastication, burning to clear vegetation, 100% surface removal, DGM, subsurface clearance if required.
- 2 burns planned per year, and entire start to finish effort for each burn unit is 1.5 yrs.
- Project expected to continue for another decade



**James Specht**

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# RSC Projects - Ft. Ord



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# RSC Projects - Ft. Ord



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# RSC Projects - Ft. Ord



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# RSC Projects - Ft. Wingate

- Excavate/sift 32 acre hazardous waste mgmt unit.
- Excavator and loader via robotics.
- Three acre sift plant: two sifter/shakers, several magnets, two pick lines, three eddy currents, hammer mill.
- MEC destruction in RCRA permitted detonation pit and burn pan – Corrective Action Mgmt Unit (CAMU).
- White phosphorus shot



**Steve Smith**



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# RSC Projects - Ft. Wingate



Steve Smith



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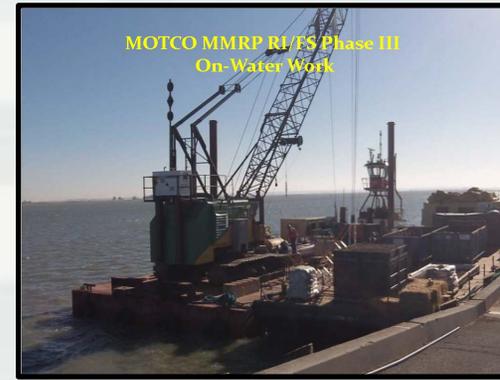
# RSC Projects - MOTCO

## Remedial Investigation / Feasibility Study Port Chicago Explosion Area

- Phase I – Geophysical Surveys over land and in water (complete)
- Phase II –Intrusive investigation in terrestrial areas to recover MEC and sample for MC (complete)
- Phase III—In water work using electromagnet to recover MEC and sample for MC (approx 50% complete)



# RSC Projects - MOTCO



John Jackson

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# Camp Beale Pilot Study

## RSC' Commercial Application of Munitions Classification



**Jim Austreng**

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**Goal:**

**Demonstrate Munitions Classification  
can be utilized in the commercial market  
place to address sites known or  
suspected to have munitions and  
explosives of concern (MEC) present**



**Jim Austreng**

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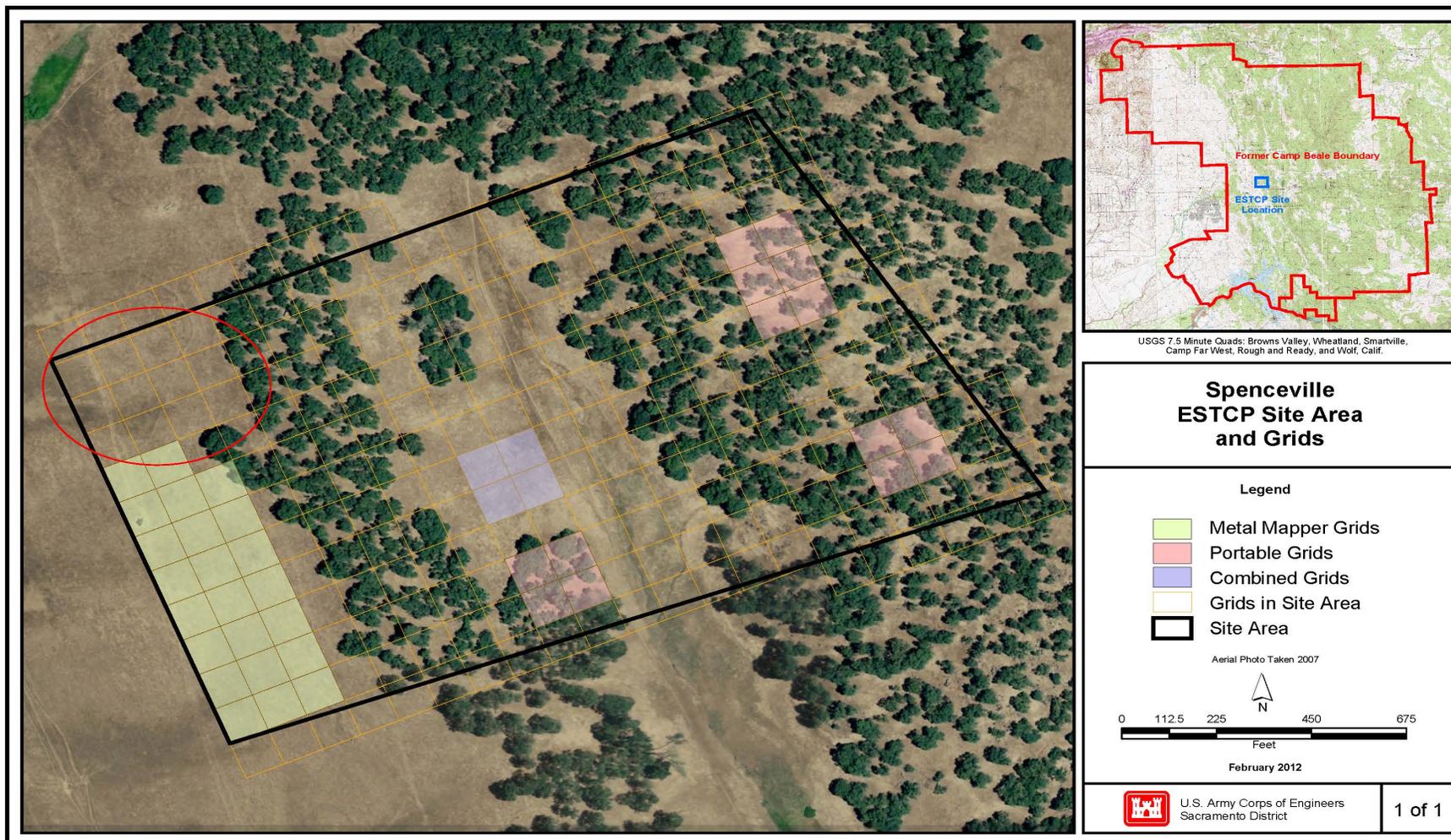
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# Background

- ❖ Formerly Used Defense Site (FUDS)
- ❖ Operated by DoD from 1948 – 1957 (land sold in 1959)
- ❖ Encompassed 64,500 acres as “full service” combat Training Facility
- ❖ Munitions potentially present:  
37- mm projectiles, 60-mm mortars, 81-mm mortars,  
105-mm projectiles and 155-mm projectiles
- ❖ Pilot Study (approx 10 acres) within Spencerville Wildlife Area.



# Camp Beale Formerly Used Defense Site

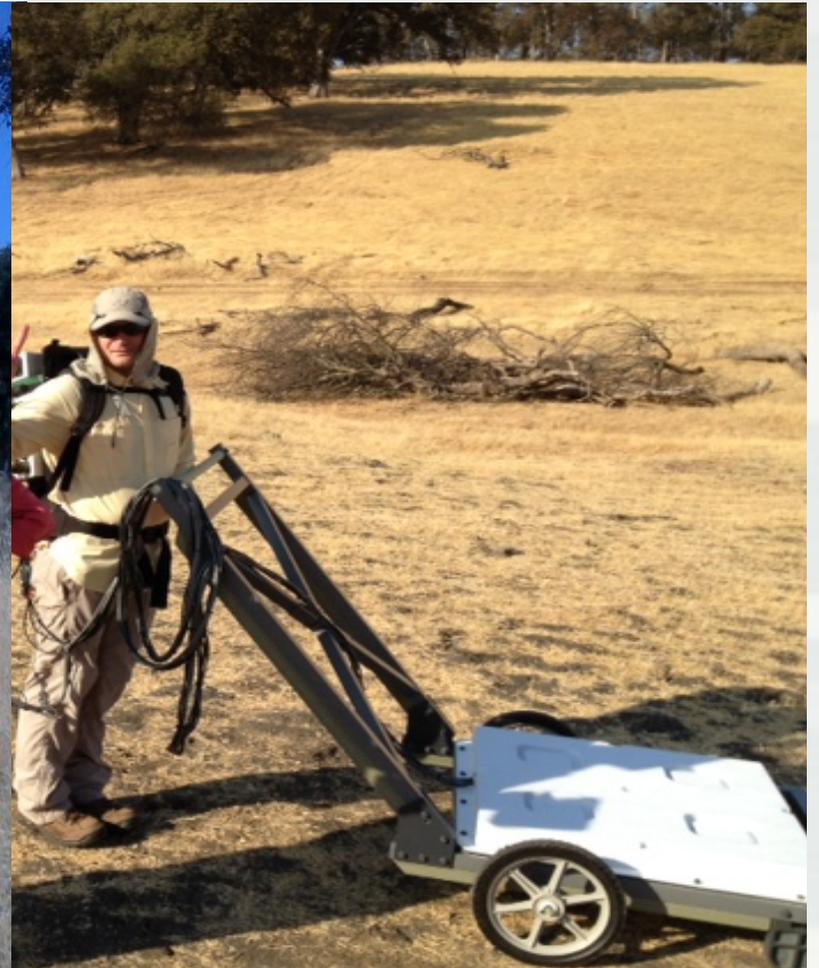


# Camp Beale, CA

## MetalMapper



## TEMTADS



# BLAB

## (Bottom Line At Bottom)

### Camp Beale, CA

Acres: 10 (approx)

Anomalies/Targets Classified: 9,169

#### Results:

- **221 Targets of Interest (TOI)**
- **8,948 non-TOI targets, or a reduction in clutter digs of 90.9%.**



# Questions

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