

would be encountered per surface MEC removal team per day. Seeding frequency would be determined at the onset of a project by projecting anticipated field team production. Seeding frequency would be modified, as necessary, throughout the duration of the project based on actual field team production to allow continued achievement of the target rate (03-016, AR# OE-0765B.3; 03-018, AR# OE-0626N).

- Modified the process for demonstrating geophysical system performance (MEC QAPP, KEMRON, 2016a).

The MEC QAPP removed the requirement for a geophysical prove-out and implemented the geophysical system verification approach for verification of system performance in accordance with *Geophysical System Verification (GSV): A Physics-Based Alternative to Geophysical Prove-Outs for Munitions Response* (Environmental Security Technology Certification Program [ESTCP], 2009). The GSV process is a rigorous physics-based program that verifies geophysical system performance using an instrument verification strip (IVS) seeded with industry standard objects (ISO) and an enhanced QC seeding program. Geophysical system response values over the IVS and QC seed items are compared to published response values of the ISO to verify performance of the system prior to and throughout the duration of geophysical mapping activities.

Advanced geophysical classification is addressed in *Final, Quality Assurance Project Plan, Superfund Response Actions, Former Fort Ord, California, Volume II, Munitions Response, Appendix B, Advanced Geophysical Classification for Munitions Response Quality Assurance Project Plan* (AGCMR-QAPP; KEMRON, 2016b).

5.4 Remaining Actions

The remaining RAs are summarized below:

- RA implementation and documentation in Units 5, 13, 17, 20, and 31;
- Complete the TM documentation for Ranges 43-48 South;
- Complete subsurface removal in the network of regularly-maintained fuel break system;
- Complete additional actions identified in TMs;
- Complete an evaluation of areas where there are high density anomalies associated with impact areas where military munitions with sensitive fuzes were fired; and

- Conduct prescribed burning in required units. Post-remediation prescribed burns may continue to be implemented after completing MEC removals and potentially after property transfer, as the Army's ability to conduct a burn is dependent on many factors including weather conditions.

6.0 REMEDIAL ACTION

This section describes general requirements for key work elements of the RA. Planned RAs for a unit or a group of units are presented in unit-specific SSWPs supplemented by TMs. Prescribed burns are described in unit-specific prescribed burn plans and after-action reports. When all work is completed in a unit or a group of units the completed actions are documented in unit-specific RARs. When all RAs are completed a RACR will be developed. A LUCIP will be developed prior to property transfer. Habitat monitoring and reporting will be implemented according to the established protocols.

6.1 Site-Specific Work Plan

Unit-specific SSWPs identify planned work areas and procedures for vegetation clearance, surface MEC removal, subsurface MEC removal, and DGM. Subsurface MEC removal will be conducted in selected areas to address specific concerns regarding MEC risk or reuse needs, such as roads, fuel breaks, and habitat restoration sites. Known areas will be identified in the SSWP. If changes are required to the SSWP a fieldwork variance will be developed to document changes. Additional subsurface MEC removal areas may be identified after surface MEC removal and DGM are completed. These additional areas will be identified in unit-specific TMs.

6.2 Vegetation Clearance

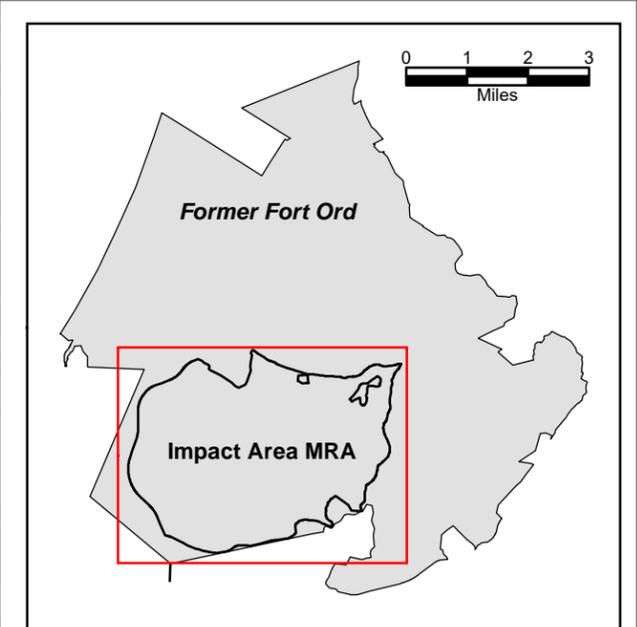
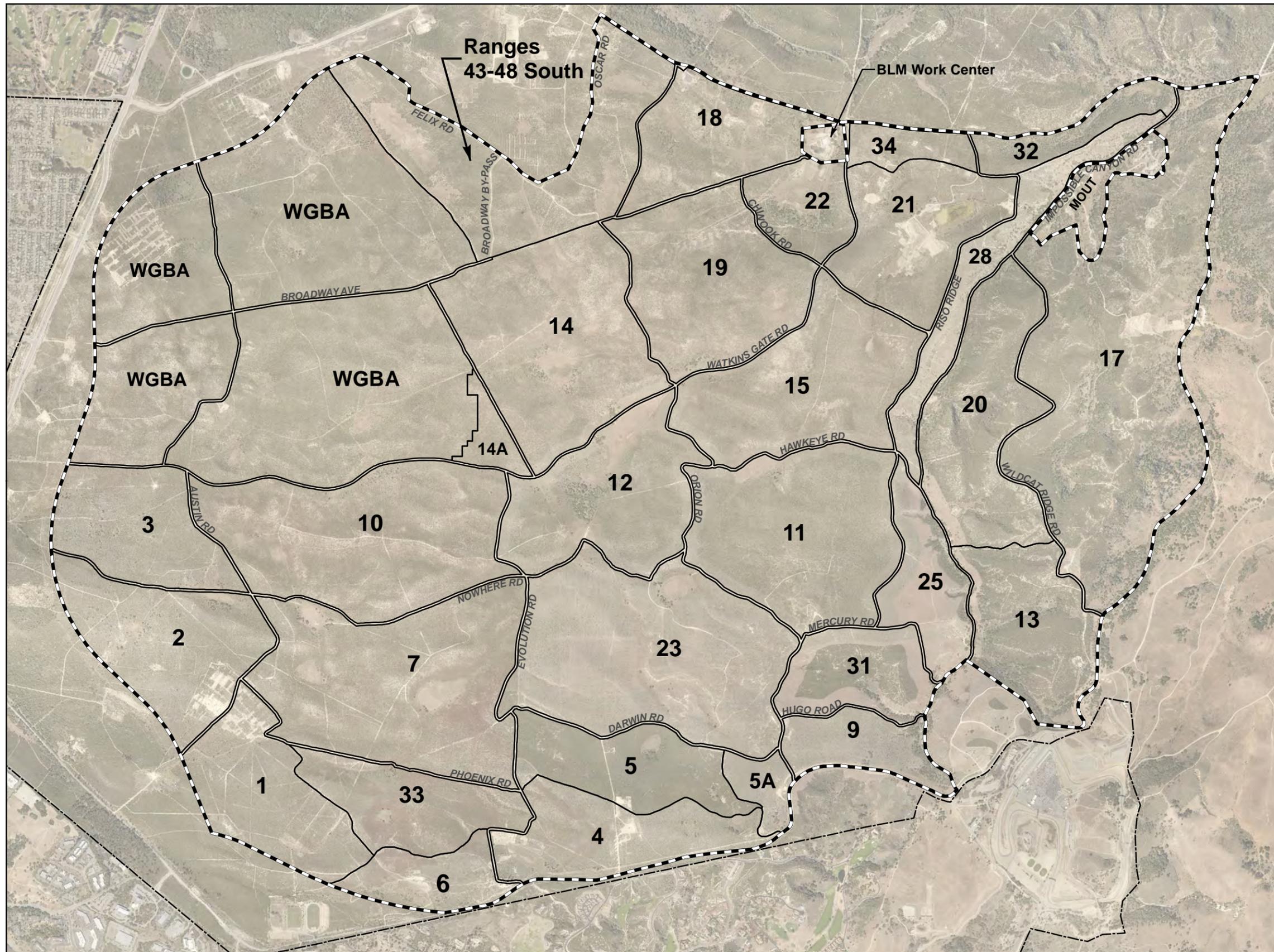
Vegetation clearance is required to perform the MEC RA in the Impact Area MRA. Vegetation clearance will be accomplished using prescribed burning, and/or manual and mechanical cutting, depending on site conditions. These areas will be identified in the SSWP.

6.2.1 Mechanical and Manual Vegetation Cutting

Mechanical and manual vegetation cutting equipment will be used to cut the vegetation. Manual tools such as trimmers may be used in areas where the mechanical cutter cannot gain access, or to trim tree branches. Trees will be left in place while removing lower branches to allow access for MEC removal teams. Field procedures are described in the MEC QAPP (KEMRON, 2016a).

6.2.2 Prescribed Burning

Prescribed burning is the primary method of vegetation clearance in habitat reserve areas containing CMC. One or more areas will be prepared for burning in any given year. Multiple burn events may be conducted



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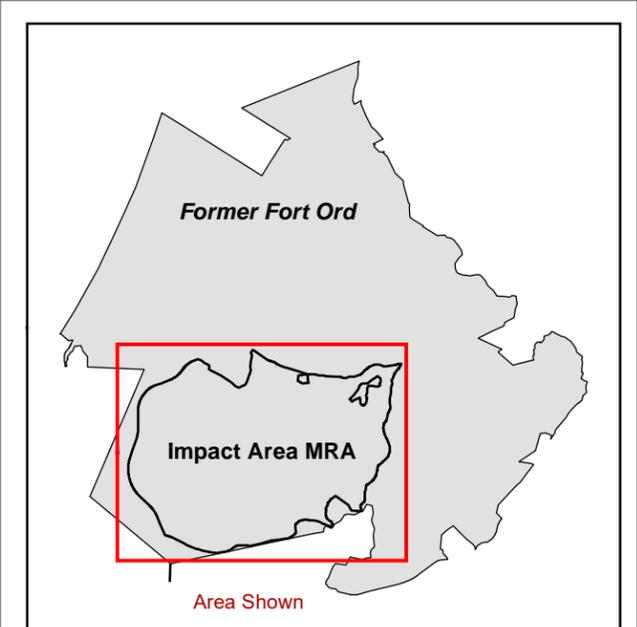
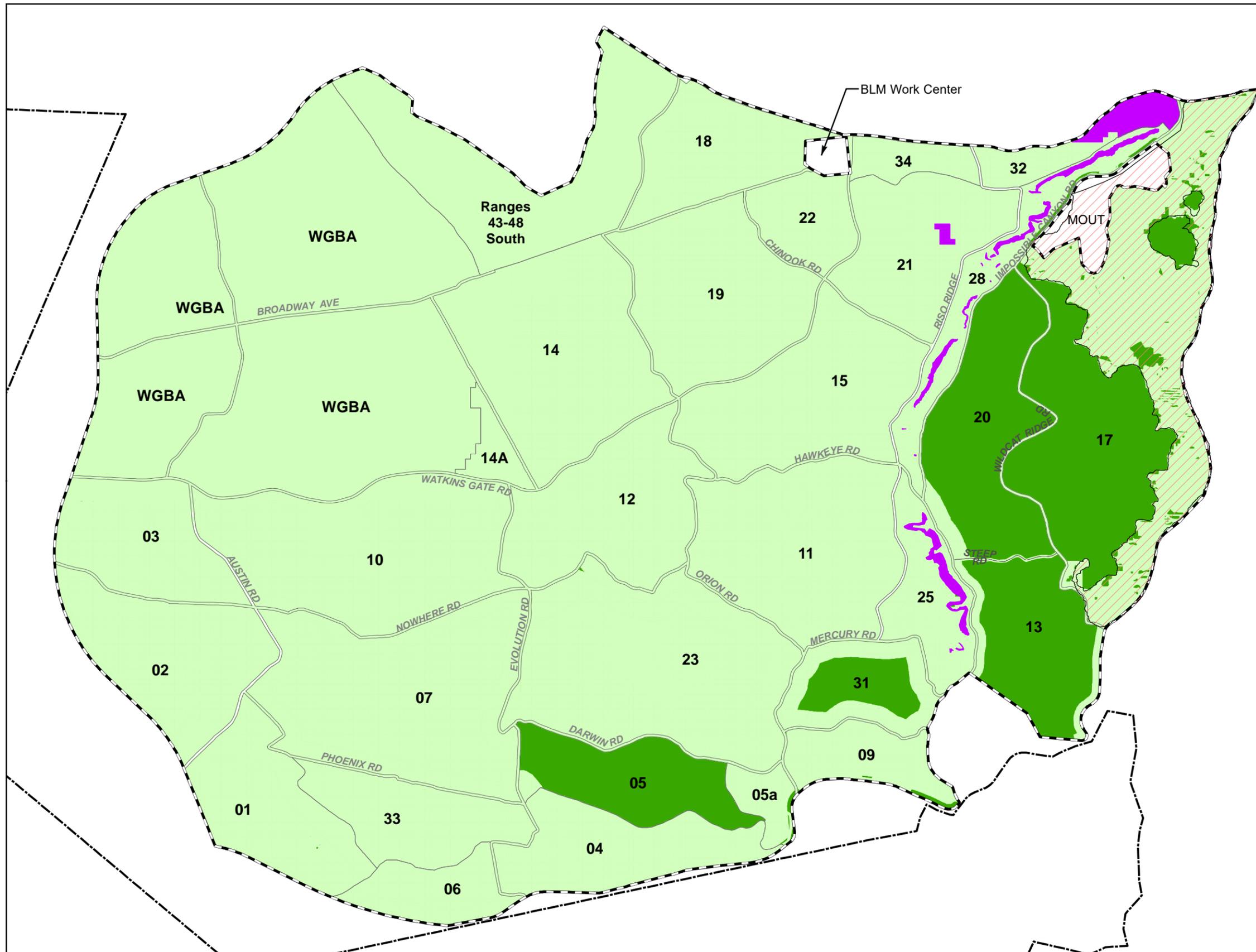
- 14 Unit
- Impact Area MRA
- Fort Ord Boundary

Note: Unit boundaries changes are based on adjustments that have been made to the fuelbreak system.



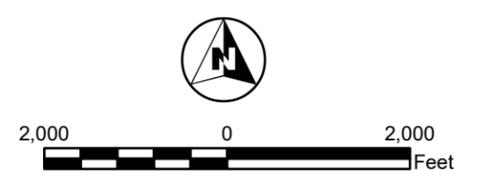
Remedial Design (RD)/Remedial Action (RA) Work Plan Update Track 3 Impact Area
Munitions Response Area (MRA)
Munitions and Explosives of Concern (MEC) Removal
Former Fort Ord, California

Figure 2
Track 3 Impact Area MRA
Unit Overview



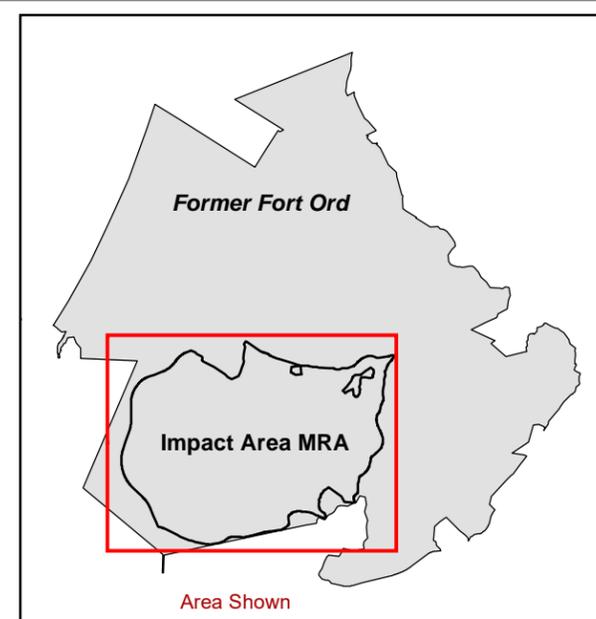
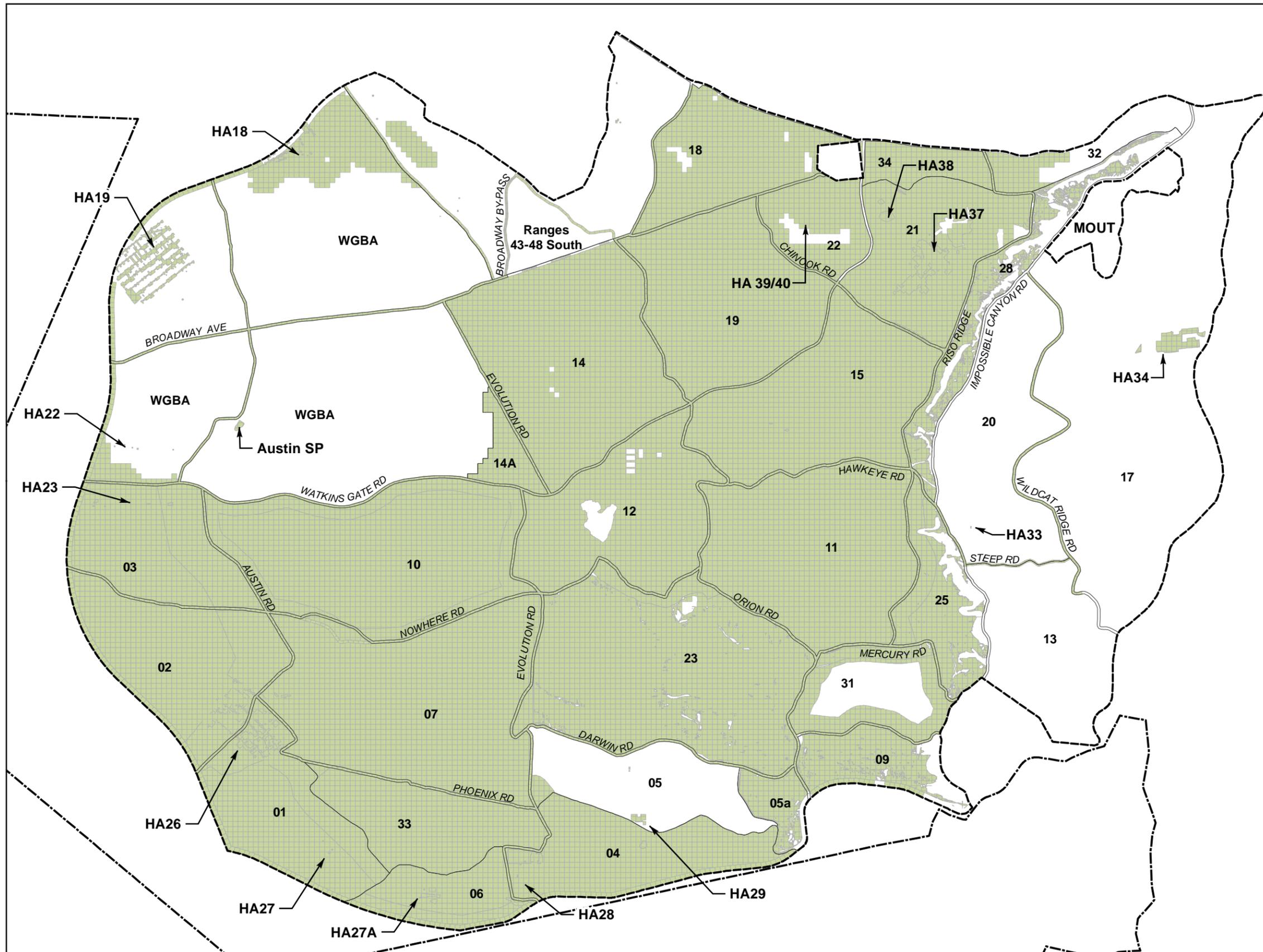
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- Surface Removal Complete
- Surface Removal Planned
- Surface Removal Not Conducted
- Eucalyptus Fire Area (2003)
- Impact Area MRA
- Fort Ord Boundary

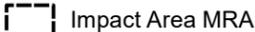


Remedial Design (RD)/Remedial Action (RA) Work Plan Update Track 3 Impact Area
Munitions Response Area (MRA)
Munitions and Explosives of Concern (MEC) Removal
Former Fort Ord, California

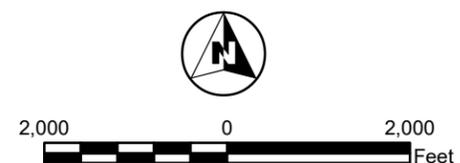
Figure 3
Surface MEC Removal Status



Legend

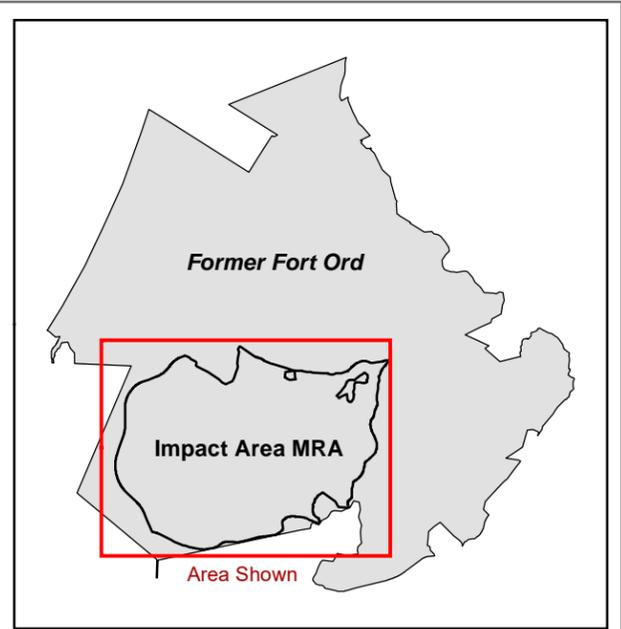
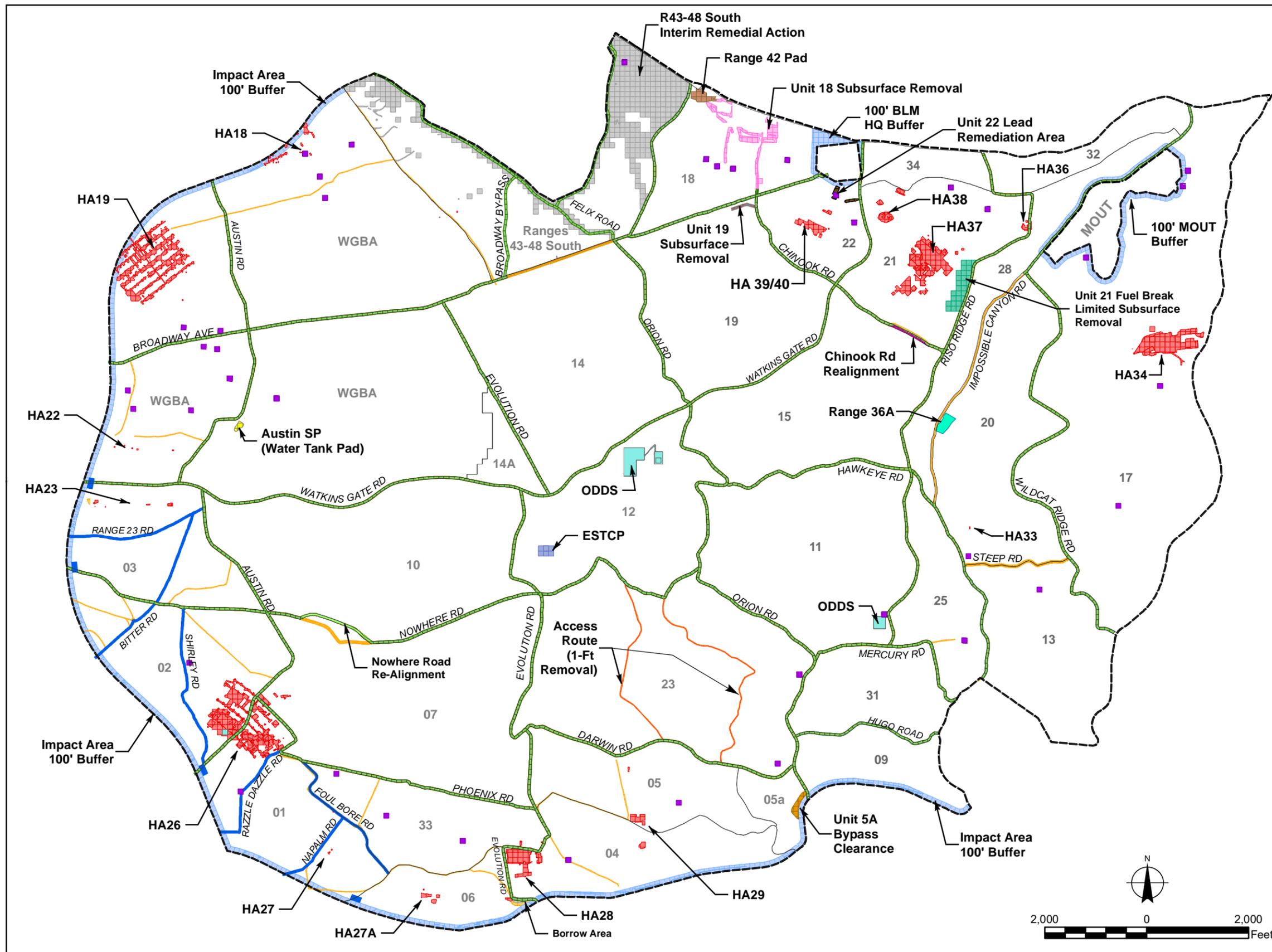
-  Impact Area MRA
-  Fort Ord Boundary
-  DGM Survey Grid

Note: DGM transects were performed in Watkins Gate Burn Area and in Ranges 43-48 South.



Remedial Design (RD)/Remedial Action (RA) Work Plan Update Track 3 Impact Area
 Munitions Response Area (MRA)
 Munitions and Explosives of Concern (MEC) Removal
 Former Fort Ord, California

Figure 4
 DGM Grid Status

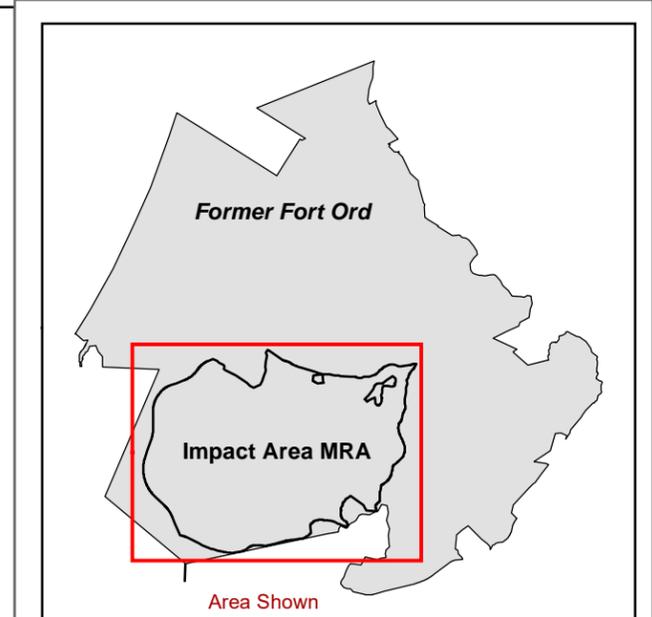
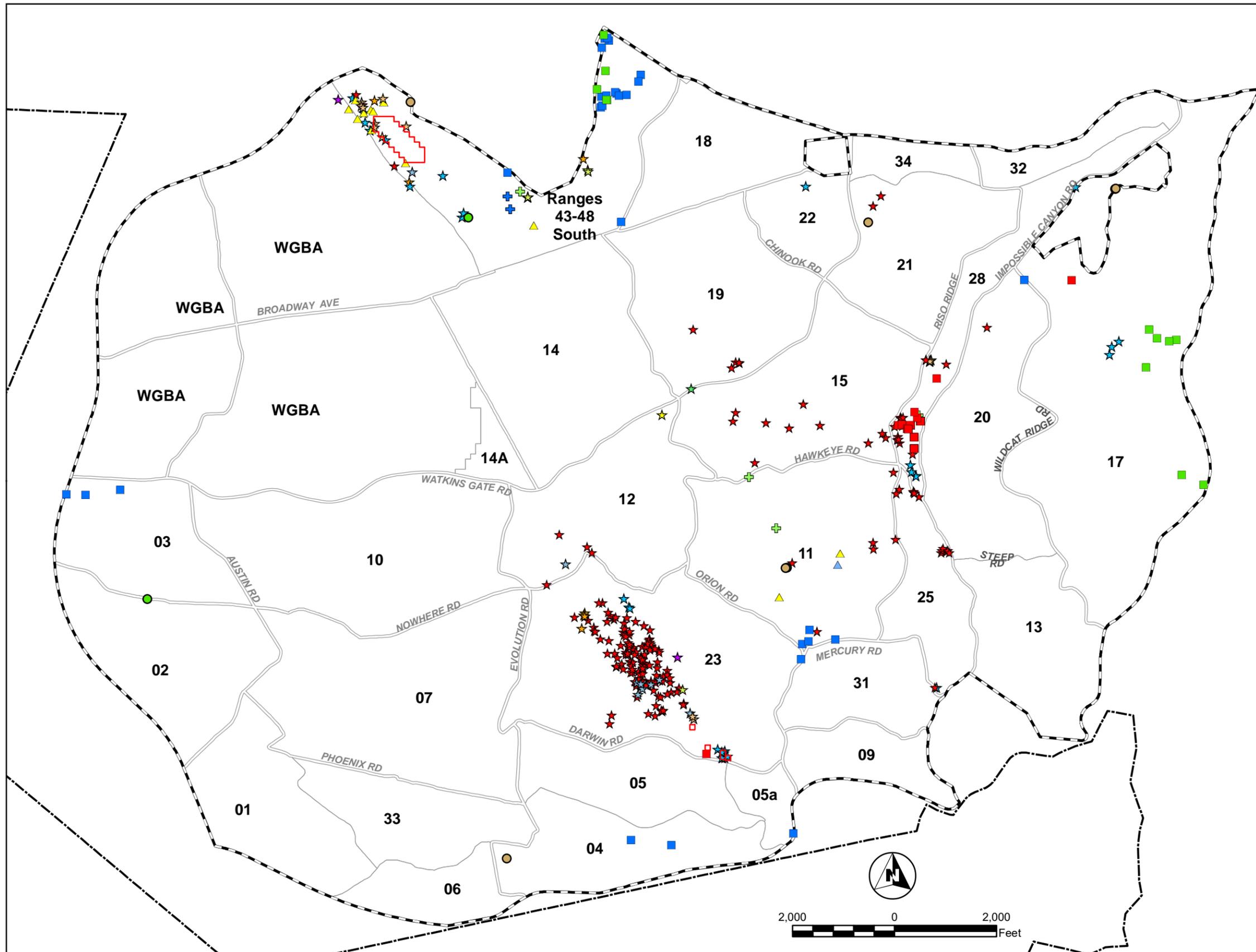


- Legend:**
- Impact Area MRA
 - Subsurface Removal**
 - 100ft Buffer
 - Administrative Area/Road
 - Chinook Road Realignment
 - ESTCP
 - HA-28 Borrow Area
 - Nowhere Road Realignment
 - ODDS Grid
 - Permanent Fuel Break
 - Range 36A
 - Range 42 Pad Removal to Depth
 - Ranges 43-48 South Interim Remedial Action
 - Road or Former Fuel Break Road
 - Sampling Grid
 - Site 39 Soil Remediation Areas
 - Unit 5A Subsurface Clearance
 - Unit 18 Subsurface Removal
 - Unit 19 Subsurface Removal
 - Unit 21 Fuel Break Limited Subsurface Removal
 - Unit 22 Lead Remediation Area
 - Unit 23 Access Routes (1-ft Removal)
 - Water Tank Pad at Austin Road (WGBA)

Remedial Design (RD)/Remedial Action (RA) Work Plan Update Track 3 Impact Area
 Munitions Response Area (MRA)
 Munitions and Explosives of Concern (MEC) Removal
 Former Fort Ord, California

Figure 5
 MEC Subsurface Removal Status



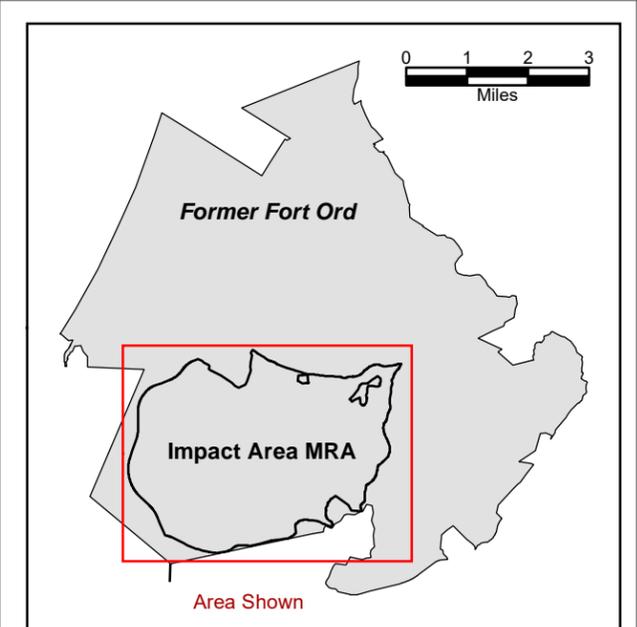
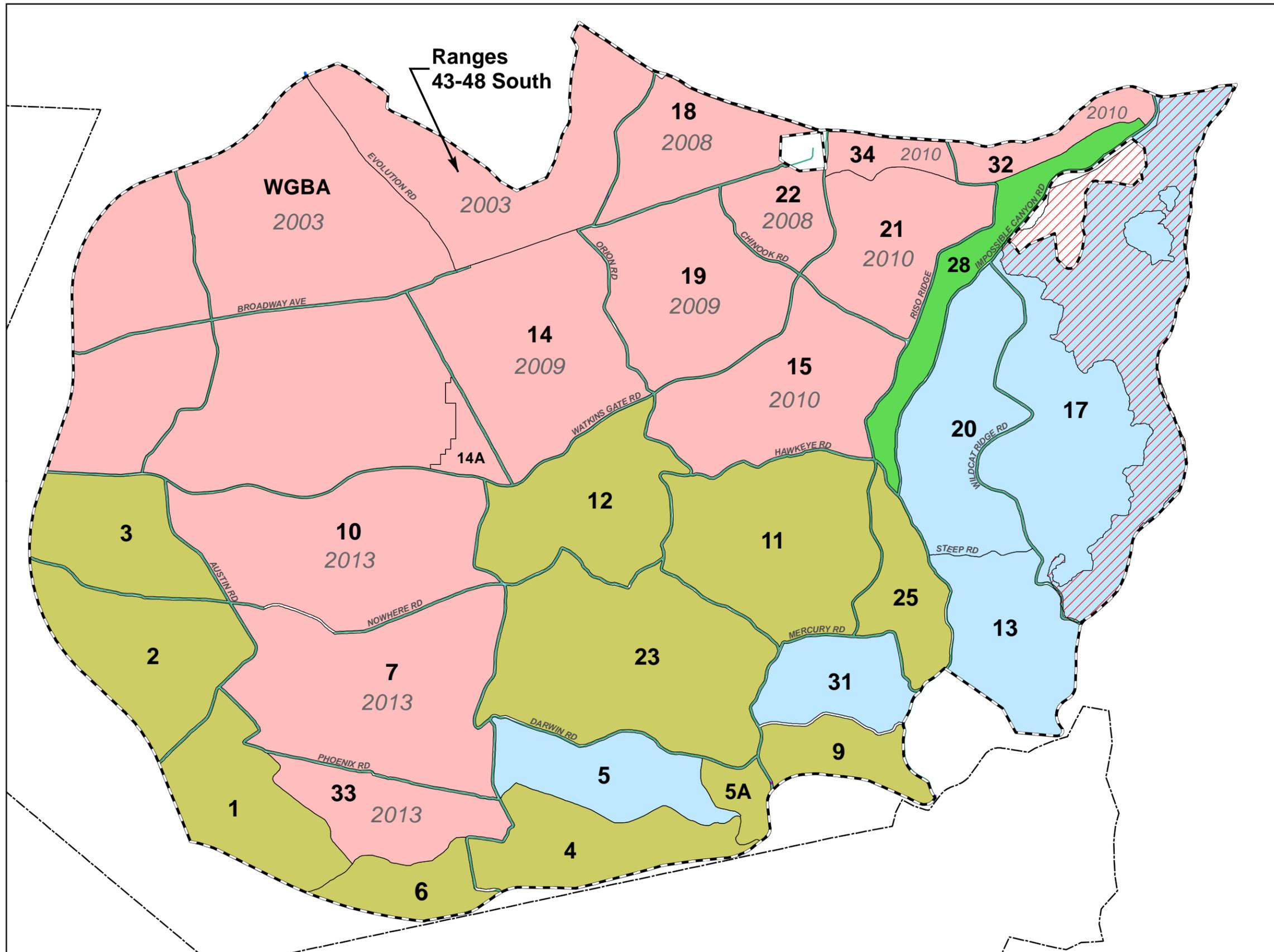


- Sensitive Fuze Type MEC**
- Cartridge, 40mm, high explosive, M383
 - Cartridge, 40mm, practice, M382
 - Cartridge, 40mm, practice, M781
 - ★ Projectile, 40mm, high explosive dual-purpose, M430
 - ★ Projectile, 40mm, high explosive dual-purpose, M433
 - ★ Projectile, 40mm, high explosive tracer, M677
 - ★ Projectile, 40mm, high explosive, M381
 - ★ Projectile, 40mm, high explosive, M383
 - ★ Projectile, 40mm, high explosive, M384
 - ★ Projectile, 40mm, high explosive, M386
 - ★ Projectile, 40mm, high explosive, M406
 - ★ Projectile, 40mm, high explosive, M441
 - Projectile, 40mm, practice, M382
 - Projectile, 40mm, practice, M407A1
 - ⊕ Projectile, 90mm, high explosive antitank, M348
 - ⊕ Projectile, 90mm, high explosive antitank, M371A1
 - ▲ Rocket, 66mm, high explosive antitank, M72 series
 - ▲ Rocket, 66mm, incendiary, TPA, M74
- Field Study Area
 □ Impact Area MRA
 □ Fort Ord Boundary



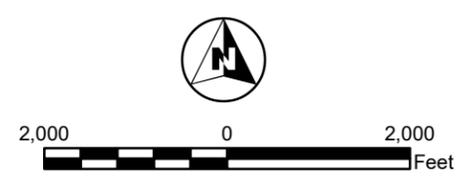
Remedial Design (RD)/Remedial Action (RA) Work Plan Update Track 3 Impact Area
 Munitions Response Area (MRA)
 Munitions and Explosives of Concern (MEC) Removal
 Former Fort Ord, California

Figure 6
 Sensitive Fuze Type Munitions



Legend

- 14 Unit #
- 2009 Burn year
- Burn Completed/Remedial Action Completed
- Completed Non-Burn Unit (Cut)
- Planned Burn
- Remedial Action Complete - Follow-Up Burn Pending
- Eucalyptus Fire Area
- Impact Area MRA
- Fort Ord Boundary



Remedial Design (RD)/Remedial Action (RA) Work Plan Update Track 3 Impact Area
 Munitions Response Area (MRA)
 Munitions and Explosives of Concern (MEC) Removal
 Former Fort Ord, California

Figure 7
 Prescribed Burn Status