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Environmental Restoration Program (ERP) Update for Edwards AFB, CA

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May 17, 2012



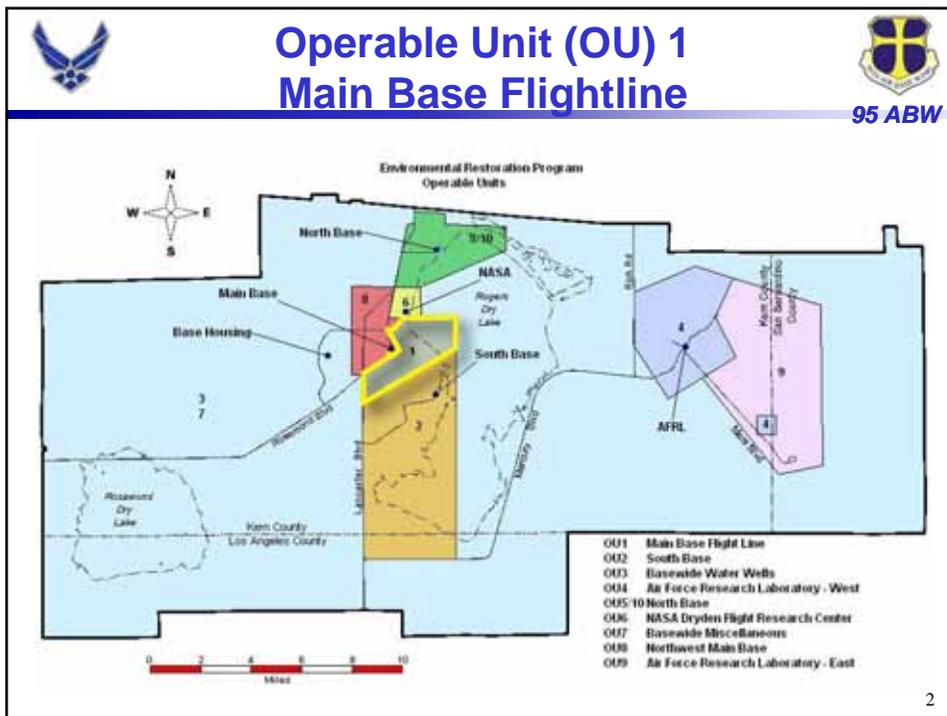
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Operable Unit (OU) 1 Main Base Flightline



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OU1 Main Base Flightline



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- **OU1 Groundwater Modeling Report**
 - Draft version currently being reviewed by regulatory agencies
 - U.S. EPA requested a 30-day review extension
 - Revised modeling provides better estimates of plume behavior (i.e., stability and/or migration) and will assist with remedy selection for OU1 groundwater contamination
- **Vapor Intrusion Pathway Assessments**
 - Work Plan being developed, anticipate Draft version to be submitted for review by June
 - The Site 18 Vapor Treatment System is temporarily turned off to allow vapor concentrations to stabilize for building sub-slab sampling activities
 - Tentatively plan to conduct sub-slab sampling in nine buildings along the flightline in Aug-Sep timeframe (summer event)

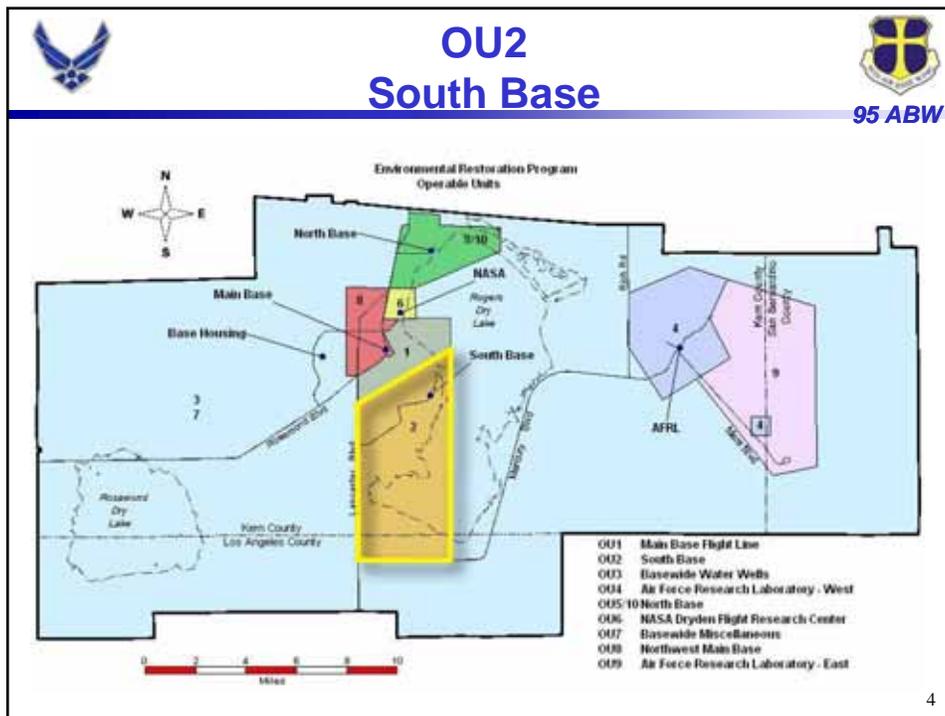
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OU2 South Base



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OU2 South Base



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- **Final Remedy Implementation**
 - Potassium permanganate injections have been performed at Sites 5/14 and 76
 - Gaseous nutrient injection is ongoing at Sites 5/14 and 86
- **Site 29**
 - Record of Decision Amendment being prepared
 - Documents the final remedy of Clean Closure for the Site 29 landfill
- **Sites 81 and 102**
 - Soil sampling is being planned for former skeet ranges

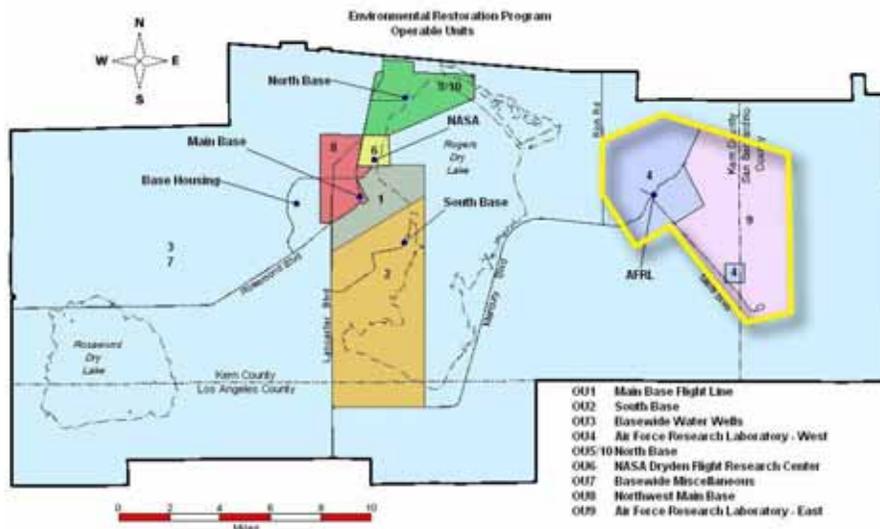
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OUs 4 & 9 Air Force Research Laboratory



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Operable Units 4 & 9 (AFRL)



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- Completed Arroyos Sites Vapor Intrusion Pathway Work Plan, installed sub-slab wells, and/or performed a round of indoor air sampling in 11 buildings
- Reactivated Soil Vapor Extraction System near Bldg 8595, South AFRL Site 37, after indoor air sampling
- Provided preliminary field information for alluvial bedrock delineation north of Arroyos Sites
- Completed preparation of four habitat revegetation projects to mitigate damage due to installation of groundwater monitoring wells for Arroyos Sites

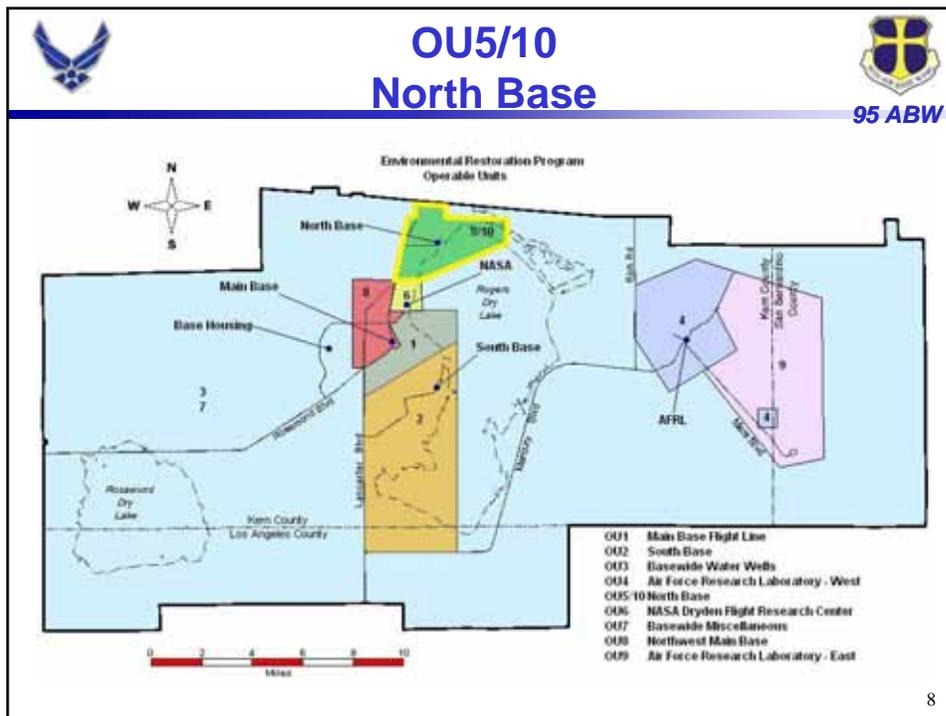
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OU5/10 North Base



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OU5/10 North Base



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- **Sampled 27 newly installed groundwater monitoring wells at Sites 240/241, 282, and 422**
 - Preliminary data indicate Sites 240/241 plume extent is larger than previously thought
 - Step-out boreholes completed, which identified boundary of plume and locations for new wells
- **Currently installing four additional wells to complete plume extent characterization**

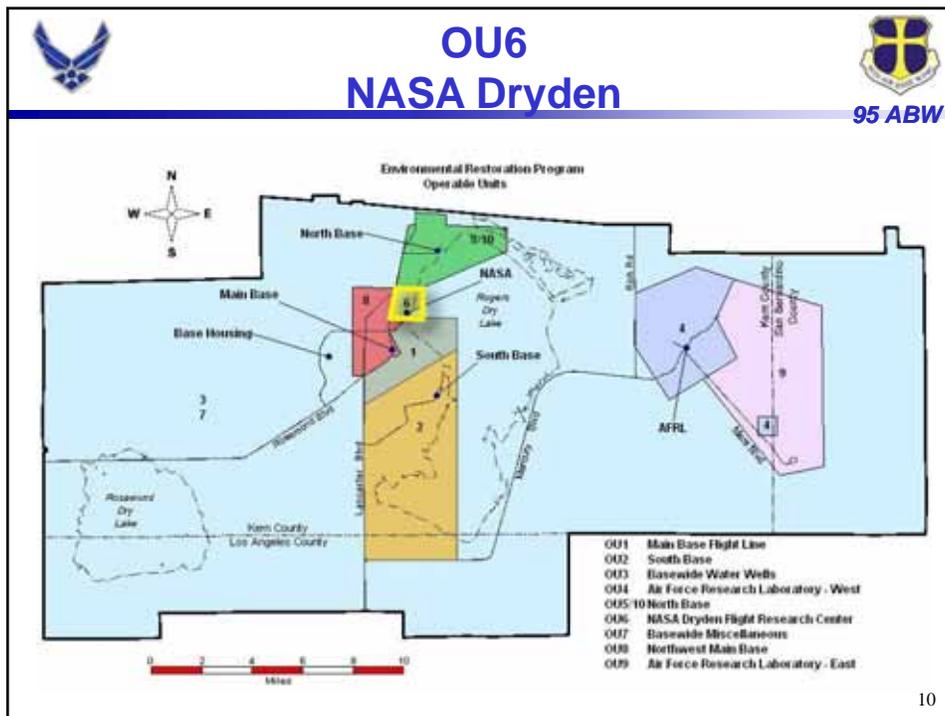
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OU6 NASA Dryden



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OU6 NASA Dryden



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- **Post-ROD**
 - Five-Year Review delayed
 - Non-concurrence between the Air Force and regulatory agencies with respect to data gaps
 - The Air Force agreed to conduct vapor intrusion pathway assessments to address data gaps
- **Contract underway for additional groundwater monitoring and vapor intrusion pathway investigation**

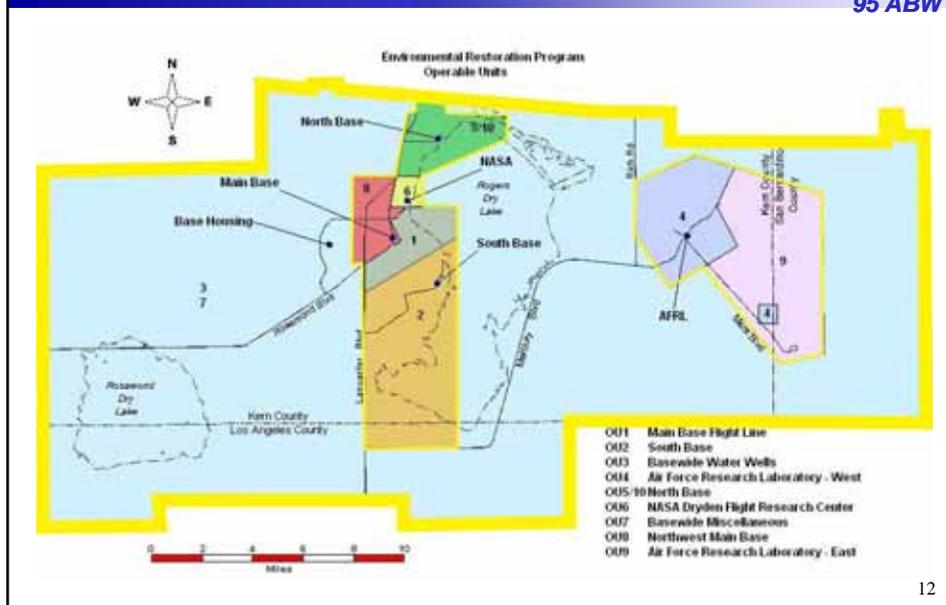
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OU7 Base-wide Miscellaneous



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OU7

Base-wide Miscellaneous



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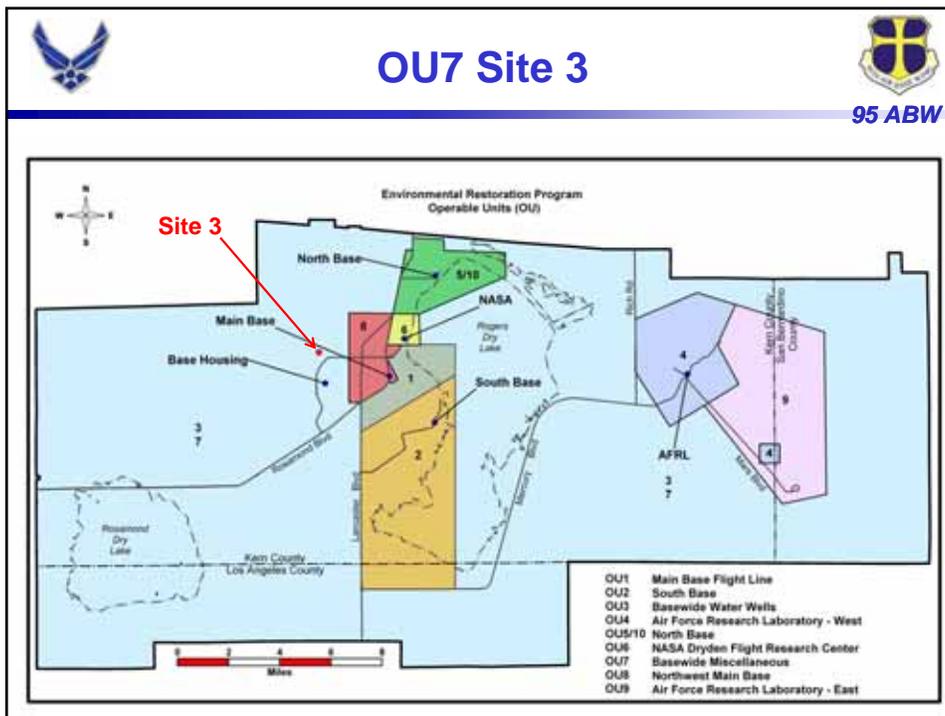
- Collecting additional data to revise the Feasibility Study
- Contract for Remedial Investigation/Feasibility Study Work Plan Addendum awarded



OU7 Site 3



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OU7

Chemical Warfare Materiel



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- **Post-ROD**
 - Site 442
 - Explosives Safety Submission (ESS) has been reviewed by the Air Force and Department of Defense Explosives Safety Board
 - Final revisions to the ESS are being made
 - Implementation of final remedies at the three burial areas may begin after the ESS has been finalized

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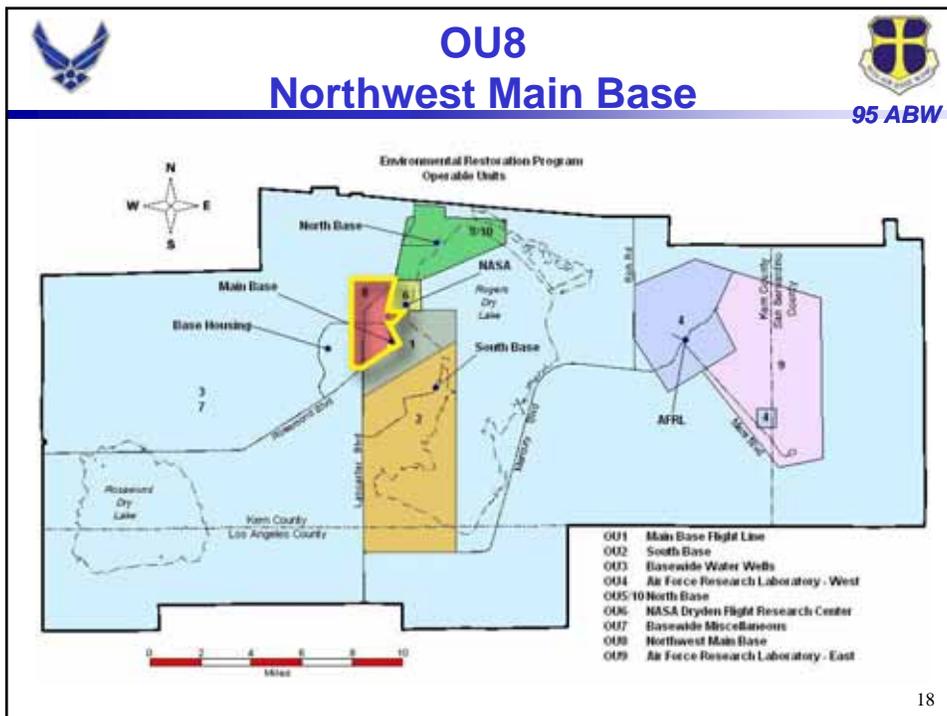


OU8

Northwest Main Base



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OU8 Northwest Main Base



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- Field work to address data gaps to revise Feasibility Study
- Draft Remedial Investigation report will be available for RPM review June 2012

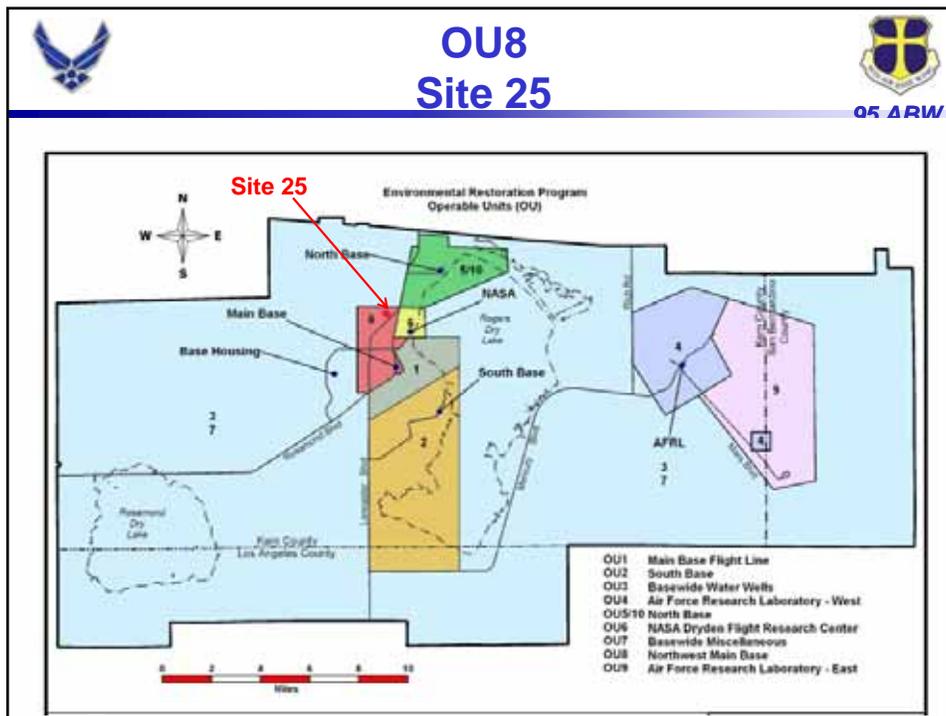
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OU8 Site 25



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OU8 Site 25



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- **Collecting additional data to revise the Feasibility Study**
 - Evaluating the site for Technical Impracticability Waiver
- **Ongoing plume delineation and vapor intrusion pathway investigation for inclusion with Feasibility Study and Technical Impracticability Evaluation Report**

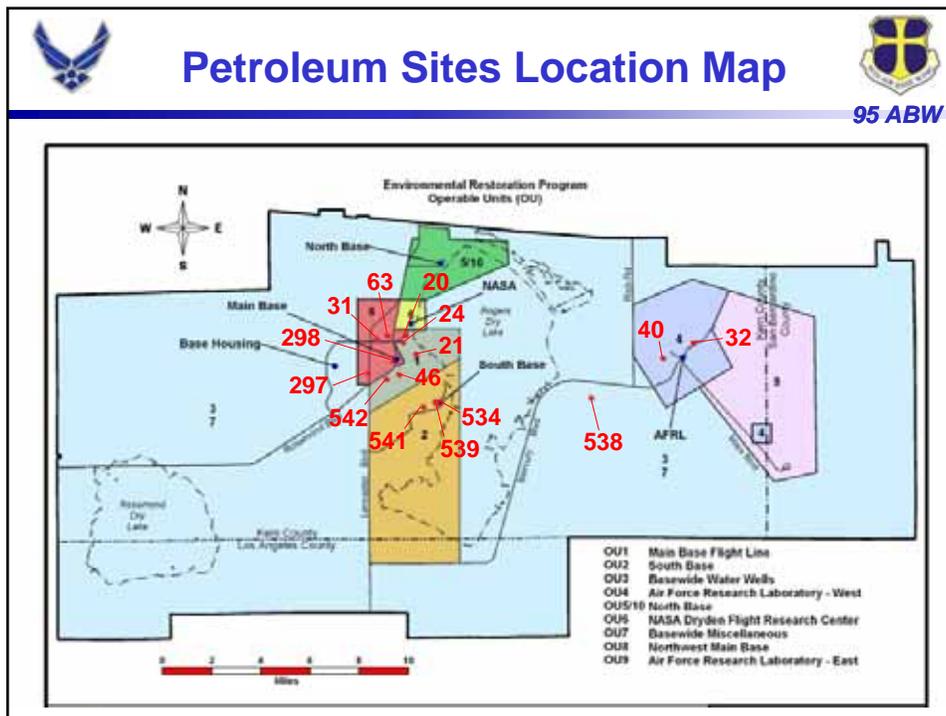
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Petroleum Sites Location Map



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Petroleum Sites & Compliance Restoration Program



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- **Two buildings at Site 21 are expected to undergo vapor intrusion pathway sub-slab sampling in the Aug-Sep timeframe (summer event)**
 - Work Plan will be issued to the Kern County Environmental Health Services Department this month
- **Routine groundwater monitoring ongoing**

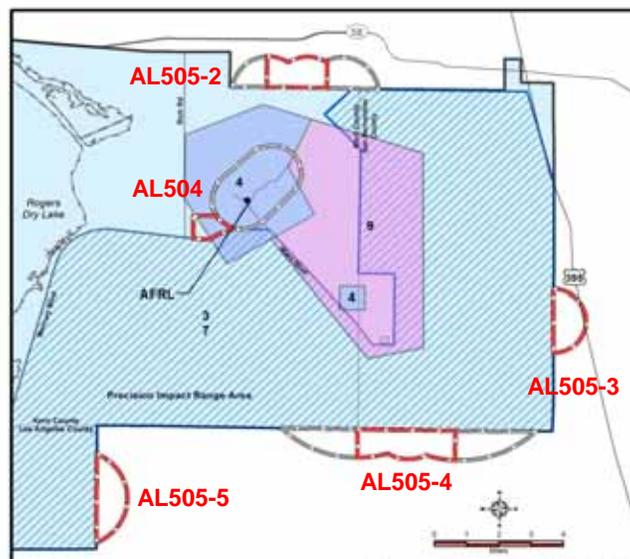
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Military Munitions Response Program (MMRP)



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Military Munitions Response Program (MMRP)



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- **Currently, surface clearing munitions from 1,200 acres in off-base area near Boron**
 - More than 4,500 lbs. of munitions debris (primarily 100-lb practice bomb carcasses) and more than 5,400 lbs. of non-munitions related metal debris (cans and other metal trash) have been removed from the surface, to be properly recycled
- **After completion of this area, the team will move to an on-base area, then to an off-base area south of the base's boundary**
- **Surface clearance activities anticipated to continue until ~October 2012**

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Questions or Comments?