

# Kirtland Air Force Base (KAFB) Bulk Fuels Facility Leak Cleanup

Military and Veterans' Affair Committee July 15, 2025

**Ryan Wortman, Air Force Civil Engineer Center** 







- Ethylene Dibromide (EDB) Interim Measure (over time)
- Benzene Plume Footprint (over time)
- 2023 Conceptual Site Model
- Resource Conservation and Recovery Act (RCRA) Corrective Action Process
- Submittal of the Phase II RCRA Facility Investigation (RFI) Report
- Path Forward to Corrective Measures Evaluation (CME)

### **EDB Plume Footprint (over time)**



### Comparison of Dissolved-Phase EDB in the Interim Measure Operational Area Between Q2 2015 and Q4 2024



### **Benzene Plume Footprint (over time)**



Comparison of Benzene in the Interim Measure Operational Area Between Q2 2015 and Q4 2024





## 2023 Conceptual Site Model









## RCRA Corrective Action Process

\*Image adapted from California Department of Toxic Substances Control (https://dtsc-topock.com/resource-conservation-and-recovery-act)



- Pace of cleanup is driven by the iterative corrective action (CA) process in KAFB's RCRA permit
- IMs are allowed under the permit when actions necessary to minimize or prevent the further migration of contaminants and limit actual or potential human and environmental exposure to contaminants before the CME and corrective measures implementation plan.
- All activities in the RCRA CA process inform the CME: IMs, pilot studies, RCRA Facility Investigation (RFI) I and II, and ongoing monitoring results





- Air Force submitted the Phase II RCRA Facility Investigation (RFI) on April 29, 2025
- Phase II RFI confirms the nature and extent proposed in the 2015 Phase I RFI:
  - Light non-aqueous phase liquid (LNAPL) extent confirmed with 10 soil coring's in source area and 32 LNAPL gauging events
  - Groundwater extent confirmed with 22 shallow groundwater monitoring wells installed and 32 monitoring events









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The nature and extent of LNAPL, soil vapor, and groundwater have been refined to the degree necessary to evaluate remedies in the CME.



Phase II RFI supports the Phase I RFI evaluations. Phase I delineation of contamination was verified/refined through 8 years of additional investigation and monitoring







- Continued focus on getting the CME by concluding the investigation phase by NMED and Air Force
- Air Force submitted Phase II RCRA Facility Investigation (RFI) and will submit an Update to the Risk Assessment (RA)
  - Phase II RFI is geared toward summarizing and concluding the investigation phase.
  - Updated RA will include the same methods as the approved 2017 RA while utilizing the additional shallow soil vapor data to strengthen the soil gas human health RA
- Air Force anticipates direction to move to CME based on NMED approval of the Phase II RFI and submission of the updated RA
- Moving to CME does not mean additional data will not be collected as data needs arise the Air Force will plan, program, and execute the necessary steps to address those needs







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#### Additional information:

Online at <u>https://www.kirtland.af.mil/Home/BFF/</u> and <u>https://ar.afcec-cloud.af.mil/</u> or visit our New Information Station at the New Mexico Veterans Memorial at 1100 Louisiana Blvd SE, Albuquerque, NM

### **Upcoming 2025 Public Events:**

November 20, 2025, Public Meeting

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