## **KAFB Bulk Fuels Facility Spill**

**Site Status** 

New Mexico Environment Department <u>http://www.nmenv.state.nm.us/hwb/</u>

May 11, 2012



## **KAFB Bulk Fuels Facility**

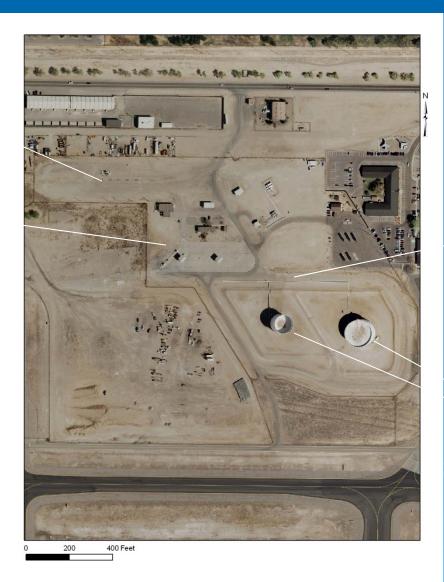
## Fuel Storage and Distribution System

- Constructed ~ 1952
- > Tank farm (2.1 and 4.2 MGal tanks)
- Ancillary piping (underground and above ground)
- Fuel Offloading Rack (removed)
- Fuels: aviation gas (in the past) and jet fuel (JP-4 prior to 1993, JP-8 since 1993)

#### **Primary Features of Bulk Fuels Facility**

#### Former Fuel Offloading Rack

Underground \_ Pipeline



Above Ground Pipeline

Fuel Tanks

0)

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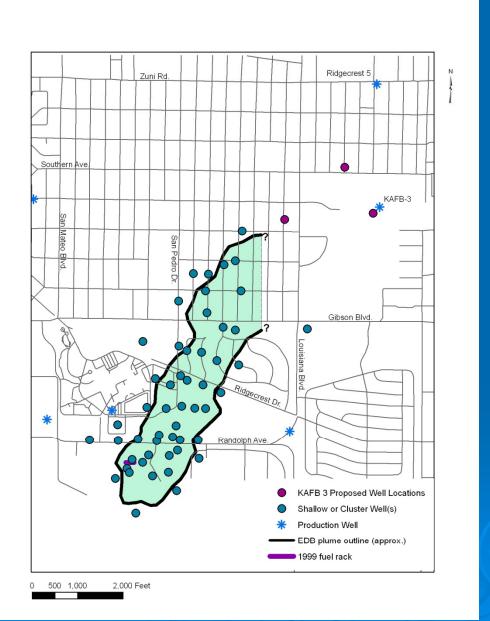
### Current primary focus:

- Install/operate new SVE Unit (on 2 wells)
- Characterize northern extent and northern core of EDB plume in groundwater
- Secondary focus:
  - LNAPL Containment System:
    - Obtain design data through enhanced well development
    - Implementation on hold to see how contamination responds to SVE

### Characterization of EDB Plume

- Current data confirms northern part EDB plume undefined
- EDB exceeds MCL (0.05 µg/L) in shallow, intermediate, and deep wells. Full vertical extent not known
- KAFB to complete 9 wells at 3 locations north of where EDB has been found
- NMED proposed additional 24 wells at 8 locations (edge and core of EDB plume)
- KAFB proposing iterative process to select new well locations
- NMED's current estimate groundwater velocity 120-360 ft/year

#### Existing and Proposed Ground Water wells

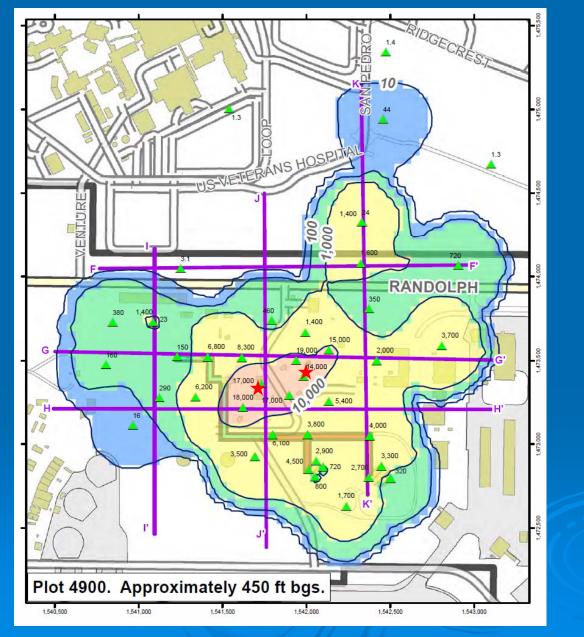


# New SVE Unit

#### Design stage

- 2 purpose-built wells completed and ready to be employed when SVE Unit constructed
- In the meantime, older ICE units installed at ST-106 (manifold), KAFB-106149, KAFB-106160, and KAFB-106161

#### Total VOCs (in ppmv) at 450 ft bgs



Soil Vapor Extraction Well

### Looking Ahead

Conduct SVE with new unit and older ICE units Complete characterization northern extent and core of EDB plume in groundwater Conduct enhanced well development Complete design of LNAPL Containment System Issue Remedial Action Plan to treat groundwater processed by LNAPL Containment System Conduct Corrective Measures Evaluation Select final remedy with public participation

### **Contact Information**

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