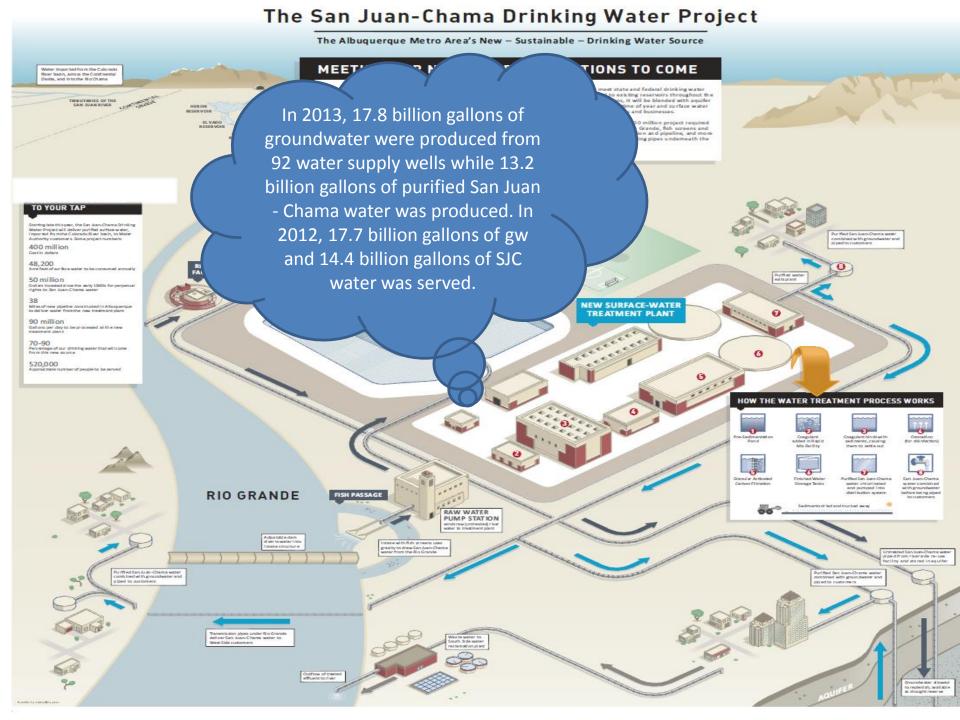
# Water Authority Response to the KAFB Bulk Fuels Facility Spill

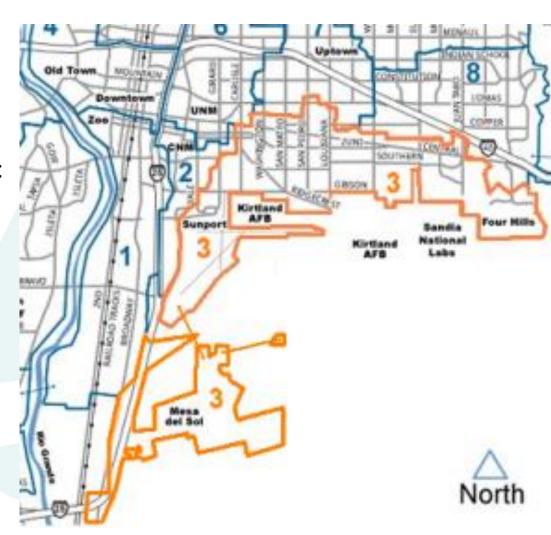
Rick Shean, Water Quality Hydrologist April 11, 2014





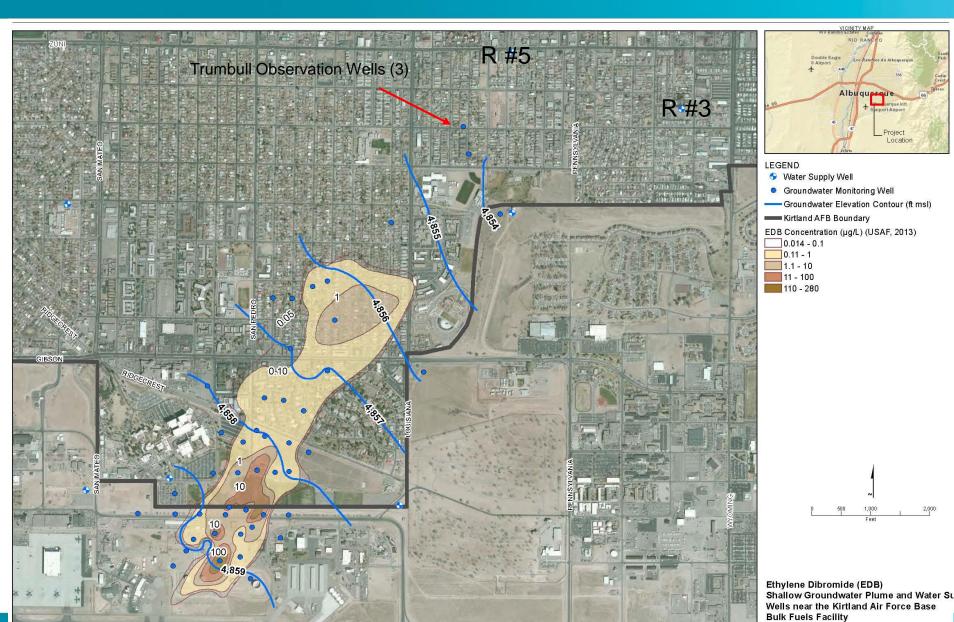
### **Distribution Area 3**

- Distribution Area 3, which encompasses the fuel spill, serves ~75,000 people in southeast Albuquerque.
- 10 active production wells in Area 3:
  - Burton Well Field (5)
  - Ridgecrest Well Field (5)
  - \* San Juan Chama Water also distributed in Area 3
- Total production from DA 3 wells for 2013 was 3.35 billion gallons
  - Ridgecrest #3 = 213 mil gals
  - Ridgecrest #5 = 593 mil gals





#### **Production Wells**



## Water Authority Spill Related Activities

Since late 2008, voluntary monthly sampling/testing of nearby production wells – Burton and Ridgecrest Well Field.

- Monthly sampling for ethylene dibromide (EDB) and aviation gas / jet fuel constituents. (Safe Drinking Water Act only requires one sample every two years).
- No detections of contaminants related to fuel spill to date.

## Water Authority Spill Related Activities

Water Authority Board has passed three resolutions relating to KAFB BFF Spill:

- M-10-1 (2010): Authorizes Water Authority to hire independent environmental consultant to evaluate the remediation planning and groundwater resources in the vicinity of the plume.
- R-12-13 (2012): Authorizes an agreement with KAFB for Contingency Plan coordination, working with USGS on early warning wells, and requests that KAFB speed implementation of final remedy.
- R-12-14 (2013): Authorizes negotiations with KAFB for emergency measures to save Albuquerque's drinking water, placement of monitoring wells near the Ridgecrest wells, containment of the light nonaqueous phase liquid plume, and implementation of remediation technology to address the long-term contamination of the soils and aquifer.

Water Authority hired independent contractor and staff to perform:

- Review KAFB work plans, quarterly reports, and other RCRA Corrective Action / Interim Measure documents.
- Prepare technical memos to Water Authority staff, NMED and KAFB.
- Attend public and technical meetings and consult staff, senior management and decision makers.

Early warning observation well installation and aquifer studies in the area of the plume:

- Water Authority/USGS installation of monitoring well cluster located 1,400 ft. upgradient of Ridgecrest Well #5.
- USGS will revise existing basin model in the area of the plume for particle tracking simulations based on projected pumping rates.
- No jet fuel spill contamination detected during first round of sampling.

#### What if...?

Joint KAFB / MOA Contingency Plan is still being prepared, but some options may include...

- Short-term, immediate response: Shut-down affected well(s), shift demand burden to other wells / SJC Drinking Water Treatment Plant.
- Replacing affected well(s) with wells in new location.
- Acquire additional surface water rights, increase capacity at SJC Drinking Water Treatment Plant.

Thank you!

Any questions?