



New Mexico Environment Department

Regulatory Update Kirtland Air Force Base – Bulk Fuels Facility Corrective Action

**Rick Shean, Division Director, Resource Protection Division
Military and Veterans Affairs Interim Legislative Committee**

September 6, 2023



Source of Contamination



Aviation Gas (AVGAS)

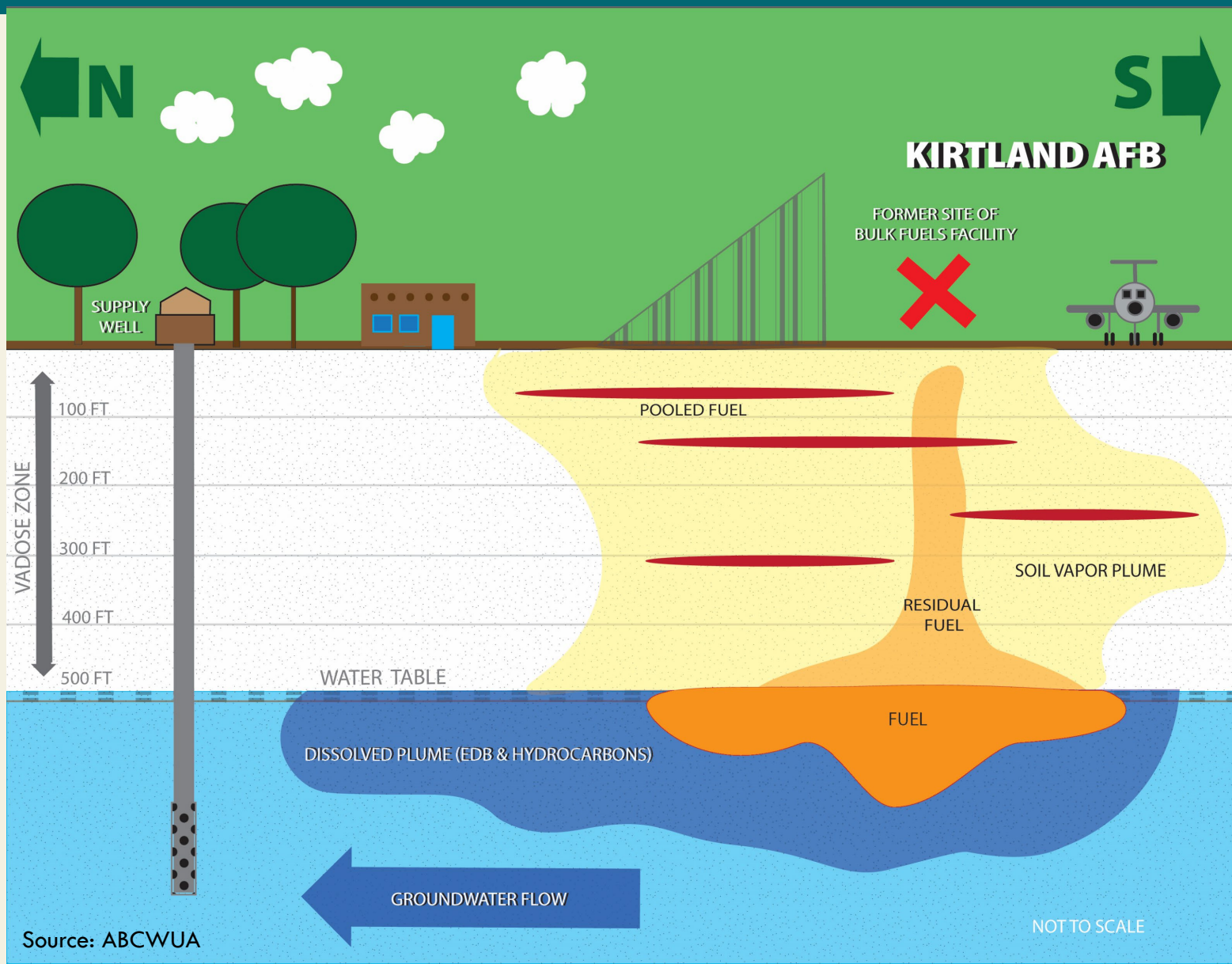
- Used up to the 1950s
- Contains Ethylene Dibromide (EDB)

Jet Propellants (JP-4 & JP-8)

- Used 1950s up today



KAFB Bulk Fuels Facility Site



Source: ABCWUA



KAFB BFF Regulatory History

November 1999, KAFB discovered leaked fuel associated with the off-loading rack to their former bulk fuels facility tanks.

2000 to 2010 preliminary investigations and interim measures were overseen by the NMED Ground Water Quality Bureau.

2010 to 2015 Expanded Investigation and Interim Measures overseen by the NMED Hazardous Waste Bureau



KAFB BFF Regulatory History (2)

2015 to 2018 Project overseen by the NMED
Science Coordinator in the Office of the
Secretary

2018 to present Hazardous Waste Bureau
regulates BFF Corrective Action



HWB Regulatory Authority

Regulations

Federal Resource Conservation and Recovery Act (RCRA)

New Mexico Hazardous Waste Act (HWA)

New Mexico Hazardous Waste Permit and Corrective Action Fee Regulations [20.4.2 NMAC]

KAFB Permit (EPA ID# NMD9570024423; NM ID# 2400)

Governs the Corrective Action Process

Contains requirements for Corrective Action Process

<https://www.env.nm.gov/hazardous-waste/kafb/>



Corrective Action Process

Investigation



CM Evaluation



CM Selection



CM Implementation

Investigation – Determine the nature and extent of the contamination in all media at the site.

Corrective Measures Evaluation – Evaluate the potential methods to remediate the site.

Corrective Measures Selection – Cleanup technology is chosen by NMED with input from public, stakeholder, and facility.

Corrective Measures Implementation – Selected Remedy installed, operated and maintained.



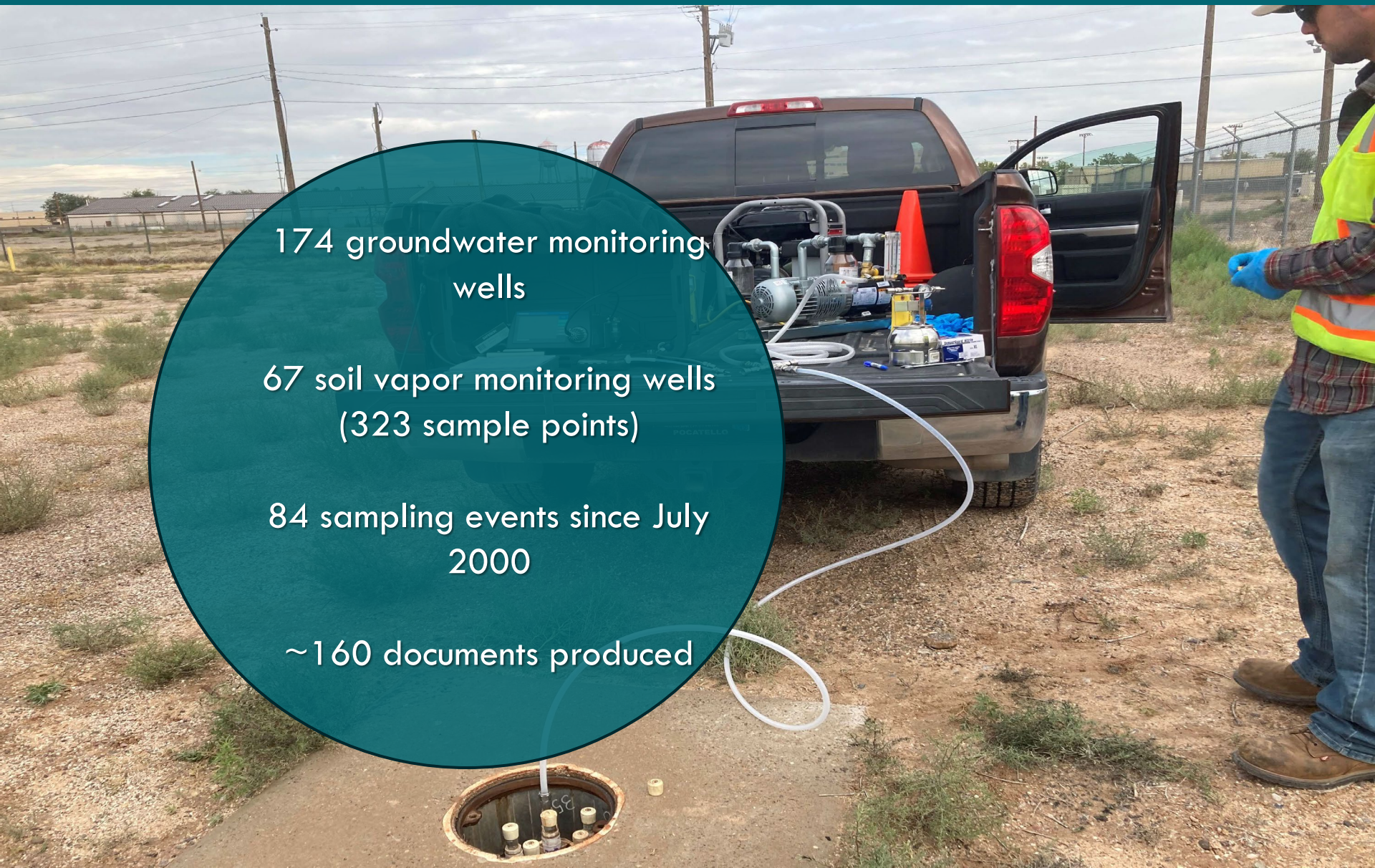
Progress – Investigation / Monitoring

174 groundwater monitoring wells

67 soil vapor monitoring wells
(323 sample points)

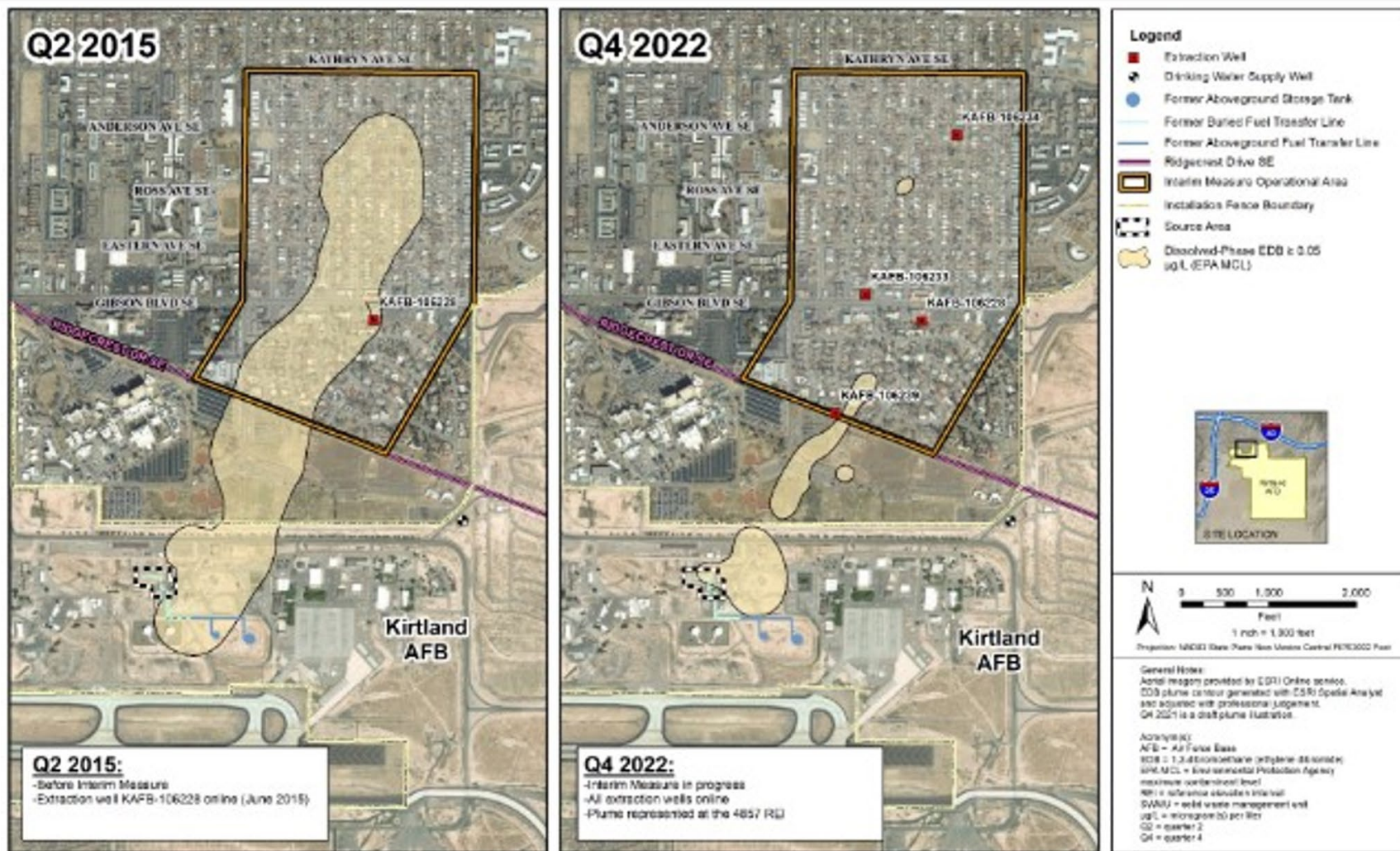
84 sampling events since July 2000

~160 documents produced





Progress – Offsite





Progress - Onsite

Onsite and Source Area Characterization

Soil Vapor Extraction Activities (2005-2015)

Pilot Studies (2015-2018)





Current Status

On April 28, 2023 NMED Set Deadline of July 31 for Air Force to provide revised work plans for Soil Vapor Monitoring, Groundwater Monitoring and the Active Groundwater Sampling System.

The Air Force submitted two of the three work plans and submitted a detailed response to the disapproval letter for the groundwater monitoring work plan.



Path Forward

NMED will be securing a third-party contractor to review the submitted work plans, response to the disapproval and to evaluate all past data to determine if sufficient information is available to proceed to the Corrective Measure Evaluation Phase.

NMED will be working with the Air Force to involve the U.S. EPA Region 6 Office in the project for additional support and independent evaluations.

NMED and the Air Force will collaborate to improve stakeholder engagement and public confidence in our shared ability to safeguard our community.

NMED Contact Information

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