



*Kirtland Air Force Base
Citizen's Advisory Board (CAB)*

*Cesar Chavez Community Center
7505 Kathryn Avenue SE
Albuquerque, New Mexico 87108*



*June 12, 2012
6:00 – 8:00 p.m.*



Agenda



- **Introduction**

- **Dr. Bruce Thomson, UNM Environmental Civil Engineering**

- **Department of Defense Presentation – Bulk Fuels Facility Update (Site SS-111)**

- **Colonel Don Conley, Commander, 377th Mission Support Group**
- **Tom Cooper, Shaw Environmental & Infrastructure Inc.**

- **Questions**

- **Closing Comments**



Acronyms



- **BTEX – Benzene, toluene, ethylbenzene, xylene**
- **CAB – Citizen’s Advisory Board**
- **EDB – Ethylene dibromide**
- **FFOR – Former Fuel Offloading Rack**
- **ICE – Internal combustion engine**
- **DPT – Direct Push Technology**
- **IM – Interim Measure**
- **LNAPL – Light Non-Aqueous Phase Liquid**
- **PBC – Performance Based Contract**
- **ROI - Radius of influence**
- **SMWU – Solid Waste Management Unit**
- **SVE – Soil vapor extraction**



Bulk Fuels Facility Overview



- **Contract update**
 - **EDB plume characterization update**
 - **SVE Treatment System – current and new**
 - **Path Forward**
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Milestone Overview



CHARACTERIZATION

RCRA Facility Investigation

- ✓ Installation of 78 Groundwater Wells
- ✓ Installation of 35 Soil Vapor Wells
- ✓ DPT Soil Samples at FFOR
- ✓ Installation of 9 Pneulog Wells
 - Installation of 9 Groundwater Wells

EVALUATION

Corrective Measures Evaluations

- ✓ Baildown Testing
- ROI Testing
- Quarterly Monitoring
- ✓ Pneulog Well Testing
- Slug Testing
- Use Phase II IM to Conduct Extended ROI Testing
- Continue to Evaluate Early Treatment

Interim Measures

- ICE Unit Operation - Pre-Remedy O&M
 - LNAPL Containment
 - Soil Removal at FFOR - Phase I Interim Measures
- SVE Treatment System - Phase II Interim Measures
- ✓ Move ICE Units to New SVE Wells
- Continue Design of Centralized SVE Treatment System

EARLY/INITIAL TREATMENT

**FINAL
REMEDY
REMEDY IN PLACE**



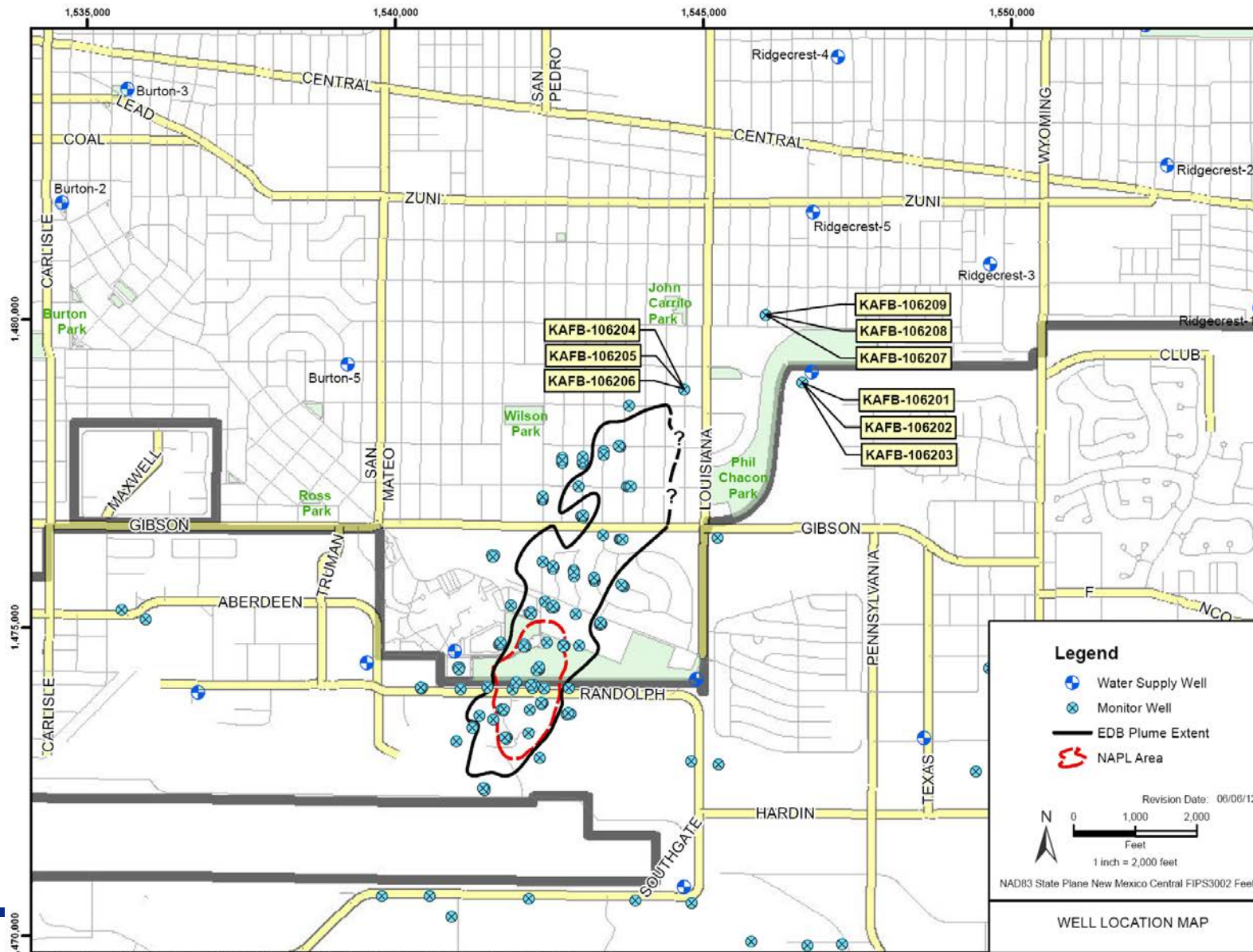


EDB Plume September – December 2011





Groundwater Monitoring Wells July/August 2012

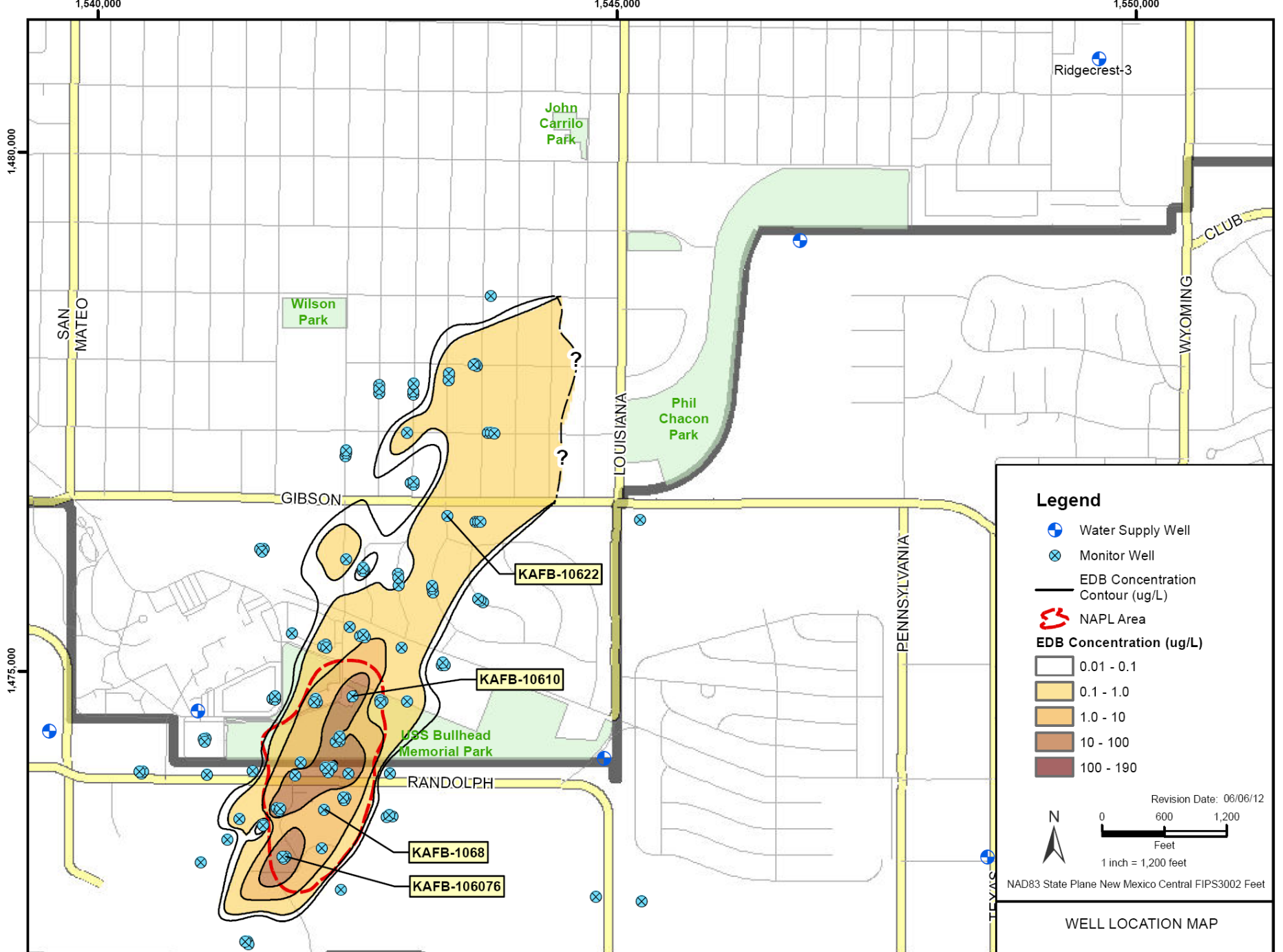




EDB Characterization



- **Letter Addendum Work Plan submitted to NMED detailing the three additional locations**
 - **Three wells per location: shallow, intermediate, and deep**
 - **Drilling tentatively scheduled to begin July 2012 at all three locations**
 - **Three drilling rigs working concurrently**
 - **Estimated 4-5 weeks per location to complete wells**
 - **Door-to-door neighborhood visits to begin mid-June with information on schedule and drilling operations**
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Legend

- Water Supply Well
- ⊗ Monitor Well
- EDB Concentration Contour (ug/L)
- ⬮ NAPL Area

EDB Concentration (ug/L)

- 0.01 - 0.1
- 0.1 - 1.0
- 1.0 - 10
- 10 - 100
- 100 - 190

Revision Date: 06/06/12

0 600 1,200
Feet

1 inch = 1,200 feet

NAD83 State Plane New Mexico Central FIPS3002 Feet

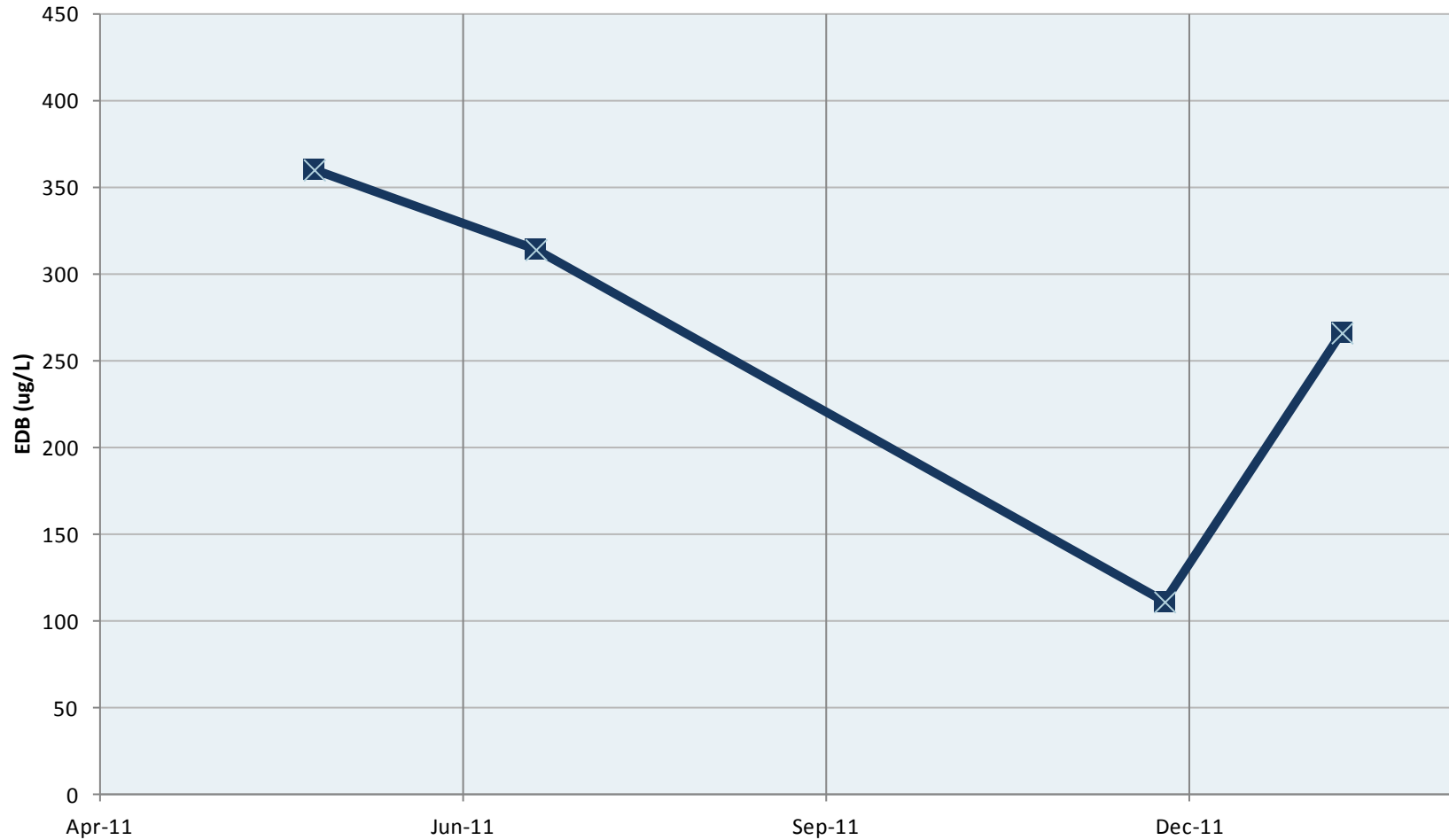
WELL LOCATION MAP



EDB In Groundwater



KAFB-106076

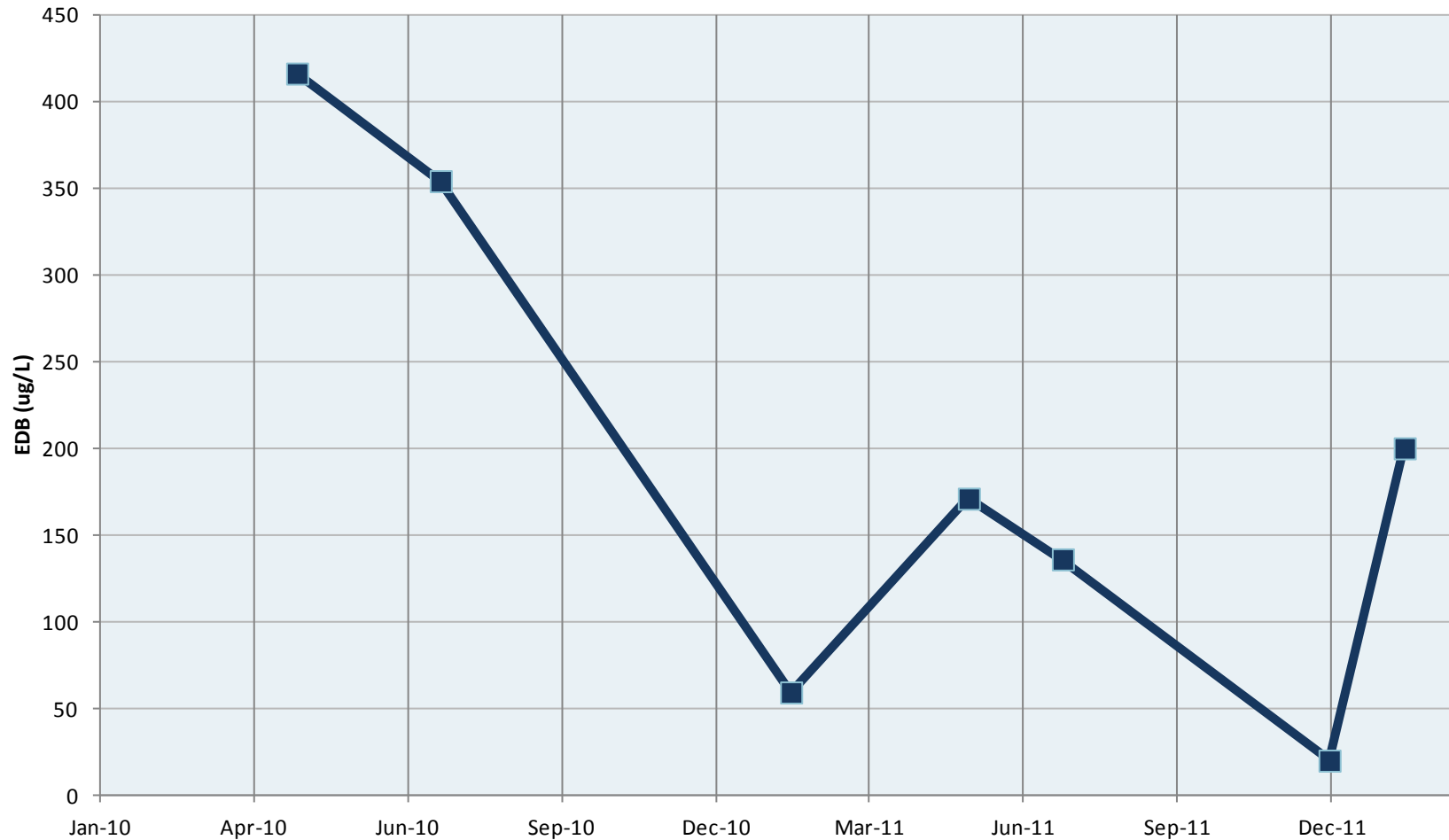




EDB In Groundwater



KAFB-1068

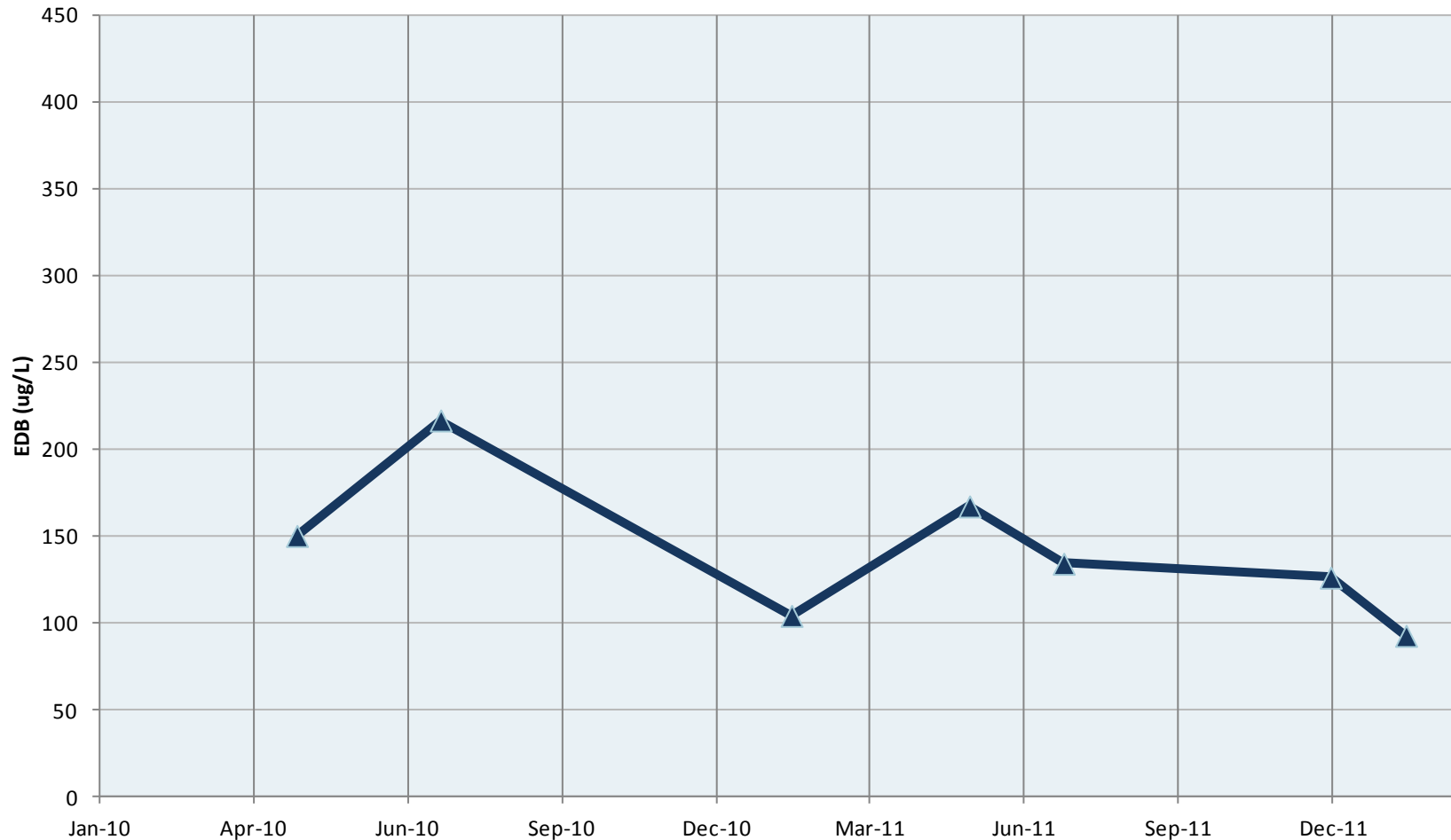




EDB In Groundwater



KAFB-10610

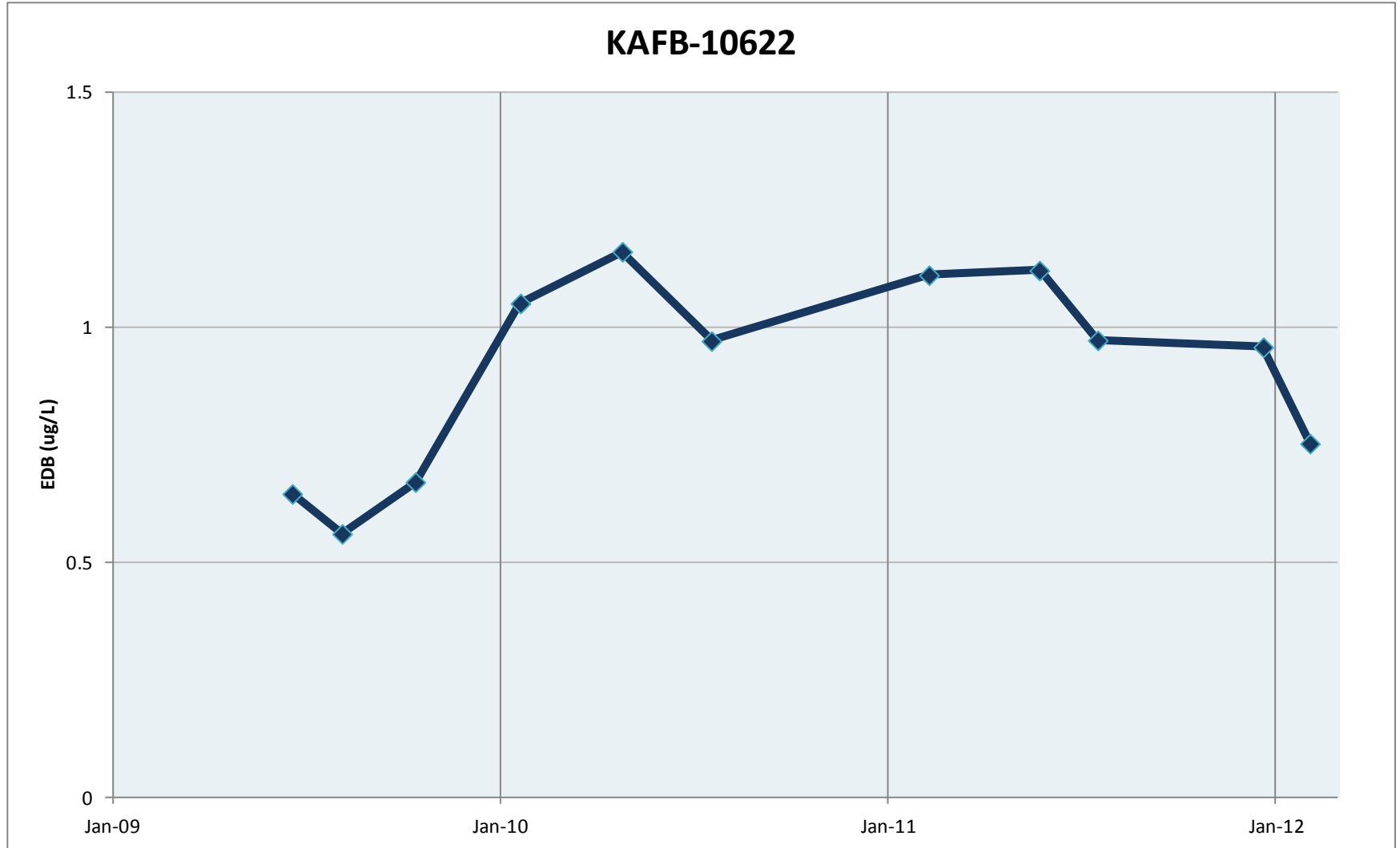




EDB In Groundwater



KAFB-10622





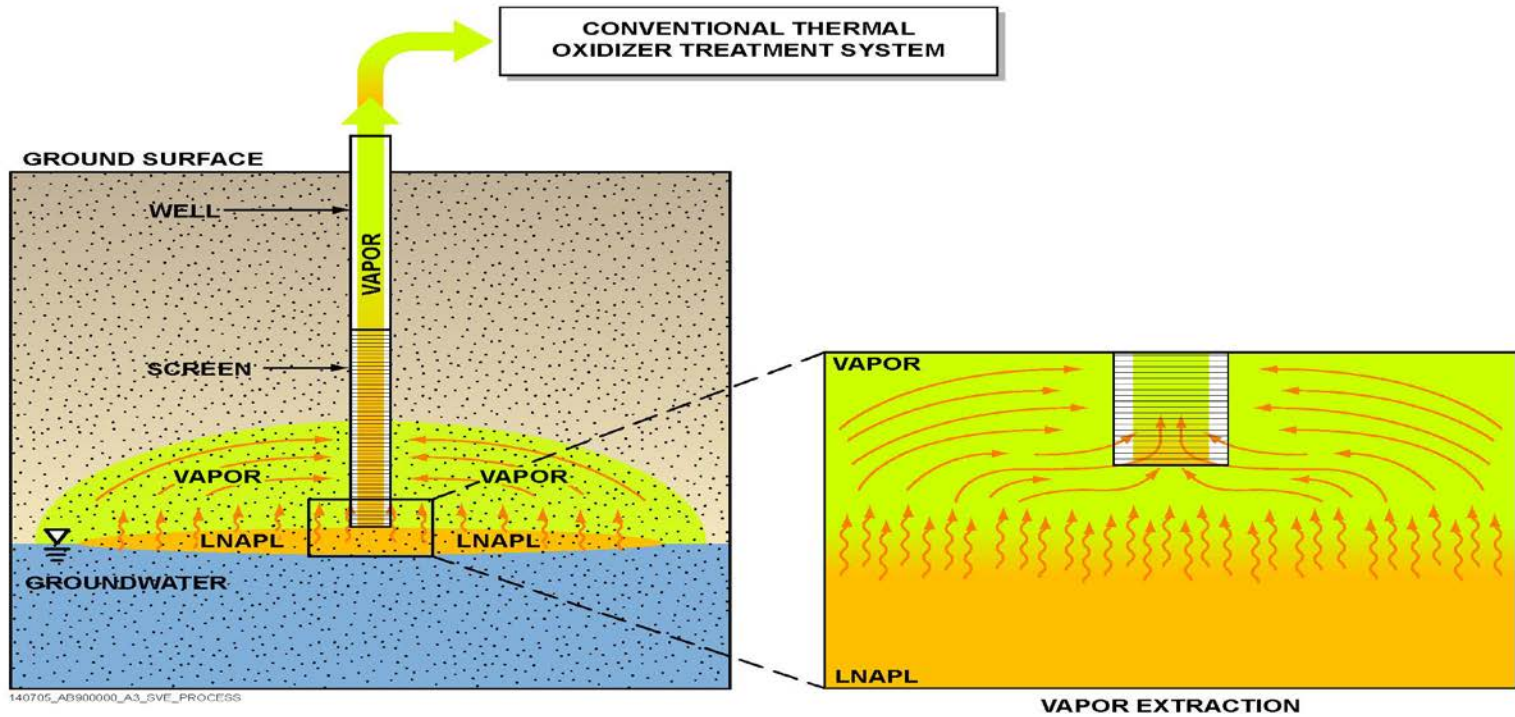
Phase II Interim Measure



- **SVE ICE units resumed operation on 23 April 2012**
 - **Moved to new locations to optimize efficiency of treatment**
- **Removed an estimated 32,000 gallons of fuel since resuming operation (April 23 – May 31, 2012)**
- **Submitted letter addendum to NMED for approval of main SVE treatment system components**
- **New treatment system estimated completion date of November 2012 – will expedite process if able**
- **Process flow for the new treatment system will be approximately 10 times more volume compared to current system**
- **Data from new system will be incorporated into evaluation of final remedy**



SVE Treatment 101





Path Forward



Task/Milestone	Schedule
Installation of additional groundwater monitoring wells	July/August 2012
Finalize SVE treatment system design (submit to NMED)	Summer 2012
SVE treatment system begins operation	Fall/Winter 2012
Complete soil removal at FFOR	August 2012



POINTS OF CONTACT



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Citizens may review Air Force Environmental Restoration Program (ERP) documents at the Kirtland AFB Information Repository (IR) located at the Central New Mexico (CNM) Community College-Montoya Campus Library, 4700 Morris NE, (505) 224-5721

or

by visiting the Kirtland AFB website at <http://www.kirtland.af.mil> in the Environmental Issues section for Public Records.



Questions?
