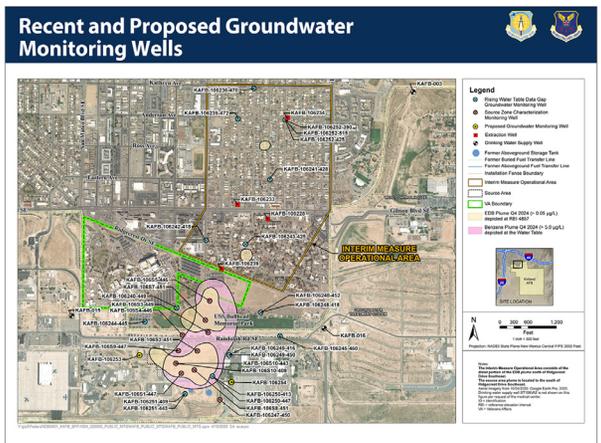
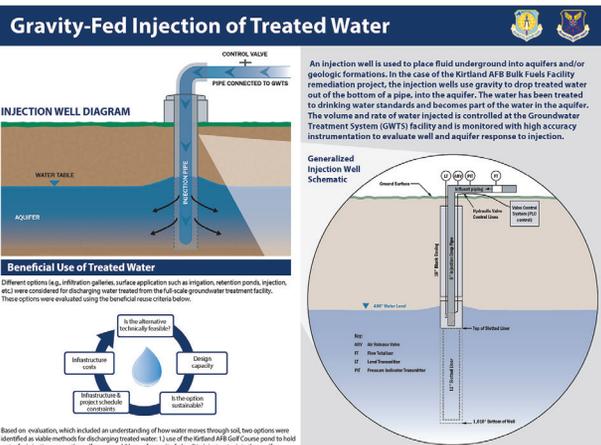
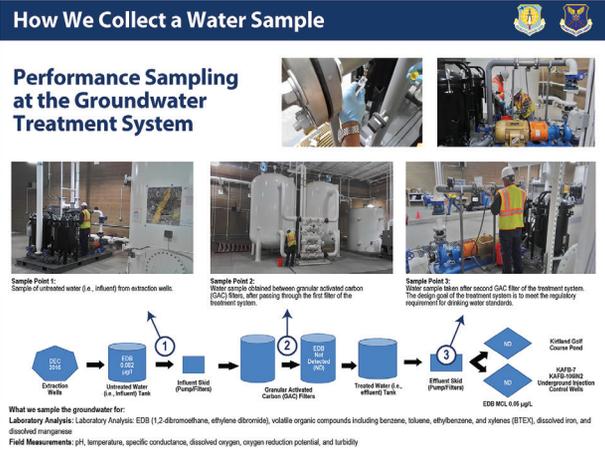
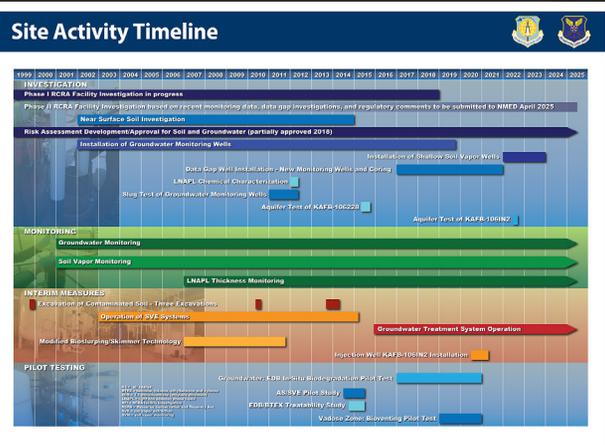
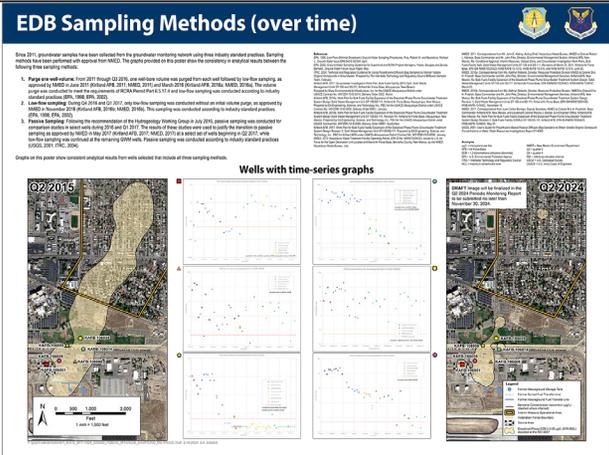
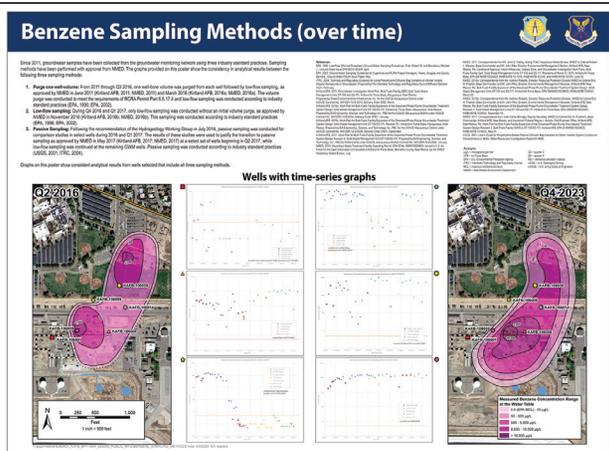
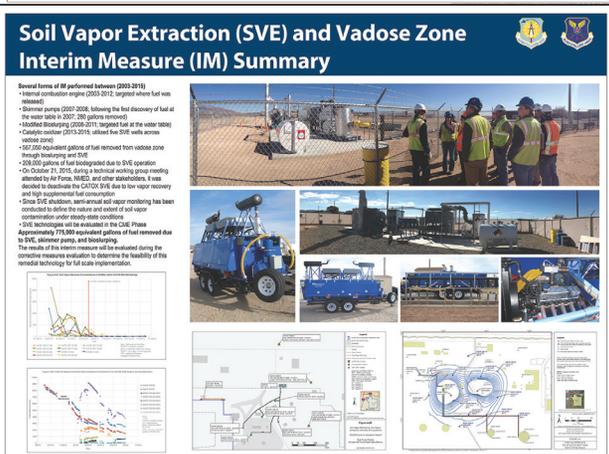


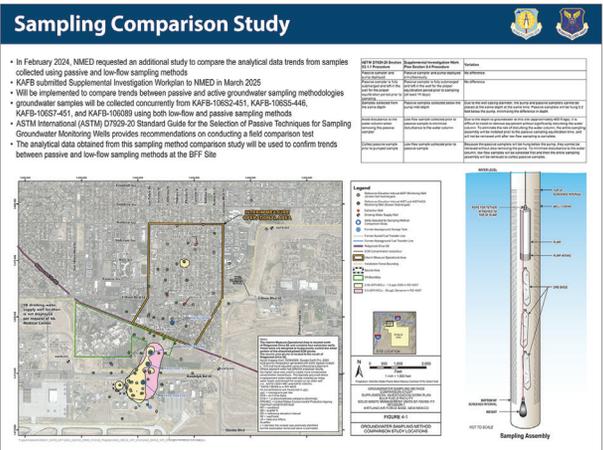
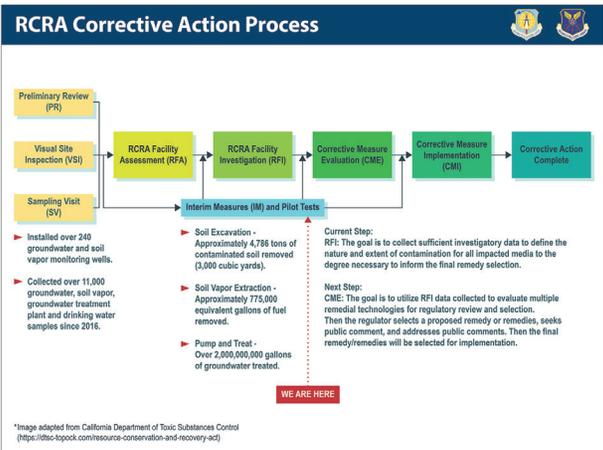


Title/filename	Thumbnail	Comment/status	Staffing
<p>Groundwater Treatment System</p> <p>Groundwater_Treatment_System_05242022.pdf</p>	 <p><b>Groundwater Treatment System (GWTS)</b></p> <p>Example of a Pump &amp; Treat System</p> <p>Extraction Well Locations</p> <p>The GWTS began operation in December 21, 2023, and now has two extraction wells being used to extract water from the aquifer. These two GWTS wells extract water from the aquifer, and the water is then treated at the GWTS facility. The GWTS facility consists of several large storage tanks, a pump station, and a treatment plant. The GWTS facility is located at the intersection of the 10th and 11th streets, and is adjacent to the 10th Street Golf Course. The GWTS facility is a state-of-the-art facility that will provide clean water to the aquifer for many years to come.</p>	<p>Done.</p> <p>No action for April 2025.</p>	
<p>Recent and Proposed Groundwater Monitoring Wells</p> <p>RECENT_PROPOSED_GWM_WELLS.pdf</p>	 <p><b>Recent and Proposed Groundwater Monitoring Wells</b></p> <p>This map shows the locations of various monitoring wells and operational areas. The wells are labeled with their IDs, such as KAPR-10242-01, KAPR-10242-02, KAPR-10242-03, KAPR-10242-04, KAPR-10242-05, KAPR-10242-06, KAPR-10242-07, KAPR-10242-08, KAPR-10242-09, KAPR-10242-10, KAPR-10242-11, KAPR-10242-12, KAPR-10242-13, KAPR-10242-14, KAPR-10242-15, KAPR-10242-16, KAPR-10242-17, KAPR-10242-18, KAPR-10242-19, KAPR-10242-20, KAPR-10242-21, KAPR-10242-22, KAPR-10242-23, KAPR-10242-24, KAPR-10242-25, KAPR-10242-26, KAPR-10242-27, KAPR-10242-28, KAPR-10242-29, KAPR-10242-30, KAPR-10242-31, KAPR-10242-32, KAPR-10242-33, KAPR-10242-34, KAPR-10242-35, KAPR-10242-36, KAPR-10242-37, KAPR-10242-38, KAPR-10242-39, KAPR-10242-40, KAPR-10242-41, KAPR-10242-42, KAPR-10242-43, KAPR-10242-44, KAPR-10242-45, KAPR-10242-46, KAPR-10242-47, KAPR-10242-48, KAPR-10242-49, KAPR-10242-50, KAPR-10242-51, KAPR-10242-52, KAPR-10242-53, KAPR-10242-54, KAPR-10242-55, KAPR-10242-56, KAPR-10242-57, KAPR-10242-58, KAPR-10242-59, KAPR-10242-60, KAPR-10242-61, KAPR-10242-62, KAPR-10242-63, KAPR-10242-64, KAPR-10242-65, KAPR-10242-66, KAPR-10242-67, KAPR-10242-68, KAPR-10242-69, KAPR-10242-70, KAPR-10242-71, KAPR-10242-72, KAPR-10242-73, KAPR-10242-74, KAPR-10242-75, KAPR-10242-76, KAPR-10242-77, KAPR-10242-78, KAPR-10242-79, KAPR-10242-80, KAPR-10242-81, KAPR-10242-82, KAPR-10242-83, KAPR-10242-84, KAPR-10242-85, KAPR-10242-86, KAPR-10242-87, KAPR-10242-88, KAPR-10242-89, KAPR-10242-90, KAPR-10242-91, KAPR-10242-92, KAPR-10242-93, KAPR-10242-94, KAPR-10242-95, KAPR-10242-96, KAPR-10242-97, KAPR-10242-98, KAPR-10242-99, KAPR-10242-100.</p>	<p>Map updated with REI 4857 Q4 2023 EDB plume 4/2/2024.</p> <p>Map updated 11/13/2024.</p> <p>Poster updated 11/20/2024.</p> <p>Q4 2024 EDB plume updated 4/7/2025.</p> <p>Updated 5/23/2025.</p>	
<p>Gravity-Fed Injection of Treated Water</p> <p>Gravity_fed_injection_well_05262022.pdf</p>	 <p><b>Gravity-Fed Injection of Treated Water</b></p> <p>An injection well is used to place fluid underground into aquifers and/or geologic formations. In the case of the Kaitiaki AHS Bulk Fluids Facility remediation project, the injection wells use gravity to drop treated water out of the bottom of a pipe, into the aquifer. The water has been treated to drinking water standards and becomes part of the water in the aquifer. The volume and rate of water injected is controlled at the Groundwater Treatment System (GWTS) facility and is monitored with high accuracy instrumentation to evaluate well and aquifer response to injection.</p> <p><b>Beneficial Use of Treated Water</b></p> <p>Different options (e.g., infiltration galleries, surface application such as irrigation, retention ponds, injection, etc.) were considered for discharging water treated from the full-scale groundwater treatment facility. These options were evaluated using the beneficial reuse criteria below.</p> <p>Is the alternative technically feasible?</p> <p>Infrastructure costs</p> <p>Design capacity</p> <p>Is the option sustainable?</p> <p>Is the option project check-list complete?</p> <p>Based on evaluation, which included an understanding of how water moves through soil, two options were identified as viable methods for discharging treated water: 1) use of the Kaitiaki AHS Golf Course ponds to hold water for irrigation use on the golf course and 2) use of a gravity-fed well to inject water into the aquifer.</p>	<p>Done.</p> <p>No action for April 2025.</p>	

Title/filename	Thumbnail	Comment/status	Staffing
<p>How We Collect a Water Sample</p> <p>HOW_TO_COLLECT_A_WATER_SAMPLE_05262022.pdf</p>	 <p><b>How We Collect a Water Sample</b></p> <p><b>Performance Sampling at the Groundwater Treatment System</b></p> <p>Sample Point 1: Sample of untreated water (i.e., influent) from extraction wells.</p> <p>Sample Point 2: Water sample obtained between granular activated carbon (GAC) filters, after passing through the first filter of the treatment system.</p> <p>Sample Point 3: Water sample taken after second GAC filter of the treatment system. The sedge pool of treatment system is to meet the regulatory requirement for drinking water standards.</p> <p>What we sample the groundwater for:      Laboratory Analysis: EDB (1,2-dibromoethane, ethylene dibromide), volatile organic compounds including benzene, toluene, ethylbenzene, and xylenes (BTEX), dissolved iron, and dissolved manganese.      Field Measurements: pH, temperature, specific conductance, dissolved oxygen, oxygen reduction potential, and turbidity.</p>	<p>Done.</p> <p>No action for April 2025.</p>	
<p>What Happens to the EDB Removed from Groundwater?</p> <p>CARBON_EDB_PROCESS_05262022.pdf</p>	 <p><b>What Happens to the EDB Removed from Groundwater?</b></p> <p><b>Carbon Change Out at the Groundwater Treatment System (GWTS)</b></p> <p>YOUR GLOBAL SOURCE FOR ACTIVATED CARBON.</p> <p>COCONUT CARBON SOURCE</p> <p>CARBON TRANSPORTED TO GWTS FOR CHANGE OUT</p> <p>CARBON SLURRY IN</p> <p>TRAPPED EDB IN CARBON VESSEL</p> <p>RE-ACTIVATED CARBON RESTORED TO 95%</p> <p>THERMAL PROCESS REMOVES EDB</p> <p>SPENT CARBON OUT</p> <p>SPENT CARBON TRANSPORTED TO CARBON REACTIVATION FACILITY</p> <p>Back Flush (REMOVES FINES FROM CARBON)</p> <p>FRESH WATER</p> <p>FIRE HYDRANT</p> <p>FRAC TANK</p> <p>CLARIFIER</p> <p>CLEAN WATER</p>	<p>Done. Changeout photos were added for last public meeting.</p> <p>No action for April 2025.</p>	
<p>Site Activity Timeline</p> <p>SITE_ACTIVITY_TIMELINE_REV_03142024.pdf</p>	 <p><b>Site Activity Timeline</b></p> <p>1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025</p> <p>INVESTIGATION</p> <p>Phase I RCRA Facility Investigation in progress</p> <p>Phase I RCRA Facility Investigation based on recent monitoring data (site app investigations); and regulatory comments to be submitted to NMED April 2025</p> <p>Near Surface Soil Investigation</p> <p>Risk Assessment Development/Approval for Soil and Groundwater (partially approved 2018)</p> <p>Installation of Groundwater Monitoring Wells</p> <p>Installation of Shallow Soil Vapor Wells</p> <p>Data Log Well Installation - New Monitoring Wells and Closing</p> <p>LNAPL Closure at Characterization</p> <p>Plug Test of Groundwater Monitoring Well</p> <p>Aspen Test of KAFB-100220</p> <p>Aspen Test of KAFB-100182</p> <p>MONITORING</p> <p>Groundwater Monitoring</p> <p>Soil Vapor Monitoring</p> <p>LNAPL Thickness Monitoring</p> <p>INTERIM MEASURES</p> <p>Excavation of Contaminated Soil - Three Excavations</p> <p>Operation of AVE Systems</p> <p>Groundwater Treatment System Operation</p> <p>Modular Biopurging/Airflow Technology</p> <p>Injection Well KAFB-100126 Installation</p> <p>PILOT TESTING</p> <p>Groundwater ADB In Situ Biodegradation Pilot Test</p> <p>ASVE Pilot Study</p> <p>FOR/BTEX Treatability Study</p> <p>Vapor Zone Bioreventing Pilot Test</p>	<p>Updated 11/05/2024.</p> <p>Updated 4/7/2025.</p>	

Title/filename	Thumbnail	Comment/status	Staffing
<p>Benzene Plume Footprint (over time)</p> <p>BENZENE_PLUME_COMPARISON_Q216-_.pdf</p>		<p>Legend and banner text revised 11/27/2023.</p> <p>Updated to Q2 2024 REI 4857 plume 11/05/2024.</p> <p>Draft note updated 11/13/2024.</p> <p>Updated to Q4 2024 water table plume 3/17/2025.</p> <p>Draft notice updated 3/17/2025</p> <p>Draft notice removed 5/23/2025.</p>	
<p>Recent Field Work</p> <p>RECENT FIELDWORK.pdf</p>		<p>New poster 10/12/2022.</p> <p>Updated with well rehab photos 11/14/2024.</p> <p>Updated with all new photos 4/8/2025.</p>	
<p>KAFB BFF Conceptual Model</p> <p>Poster The Kirtland Bulk Fuels Facility Leak A Conceptual Model_20250411.pdf</p>		<p>New poster 03/18/2024 (provided by Sundance)</p> <p>Revised 04/18/2024</p> <p>Sundance revised for April 2025.</p> <p>Sundance revised for 5/21/2025.</p>	

Title/filename	Thumbnail	Comment/status	Staffing
<p>EDB Sampling Methods (over time)</p> <p>EDB_Q215_Q224_TIME_SERIES_GRAPHS.pdf</p>		<p>New poster 10/19/2023</p> <p>Updated EDB plume to REI 4857 Q2 2024 11/06/2024.</p> <p>Draft note updated 11/14/2024.</p> <p>No action. Not used for April 2025.</p>	
<p>Benzene Sampling Methods (over time)</p> <p>BENZENE_Q216_Q224_TIME_SERIES_GRAPHS.pdf</p>		<p>New poster 10/19/2023</p> <p>Updated benzene plume to Q2 2024 at the water table 11/06/2024.</p> <p>Draft note updated 11/14/2024.</p> <p>No action. Not used for April 2025.</p>	
<p>Soil Vapor Extraction (SVE) and Vadose Zone Interim Measure (IM) Summary</p> <p>SVE_VZ_SUMMARY.pdf</p>		<p>New poster 6/25/2024</p> <p>Updated 6/28/2024</p> <p>Updated 4/5/2024</p> <p>Updated 4/7/2025</p>	

Title/filename	Thumbnail	Comment/status	Staffing
<p>Sampling Comparison Study</p> <p>SAMPLING_COMPARISON_STUDY.pdf</p>		<p>New poster 4/7/2025</p>	
<p>RCRA Corrective Action Process</p> <p>RCRA_CORRECTIVE_ACTION_PROCESS.pdf</p>		<p>New poster 4/7/2025</p>	
<p>What is the Difference Between Maximum Contaminant Level Goal (MCLG) and Maximum Contaminant Level (MCL)?</p> <p>MCL_VS_MCLG.pdf</p>		<p>New poster 4/7/2025</p>	