



## Beale Air Force Base Wastewater Treatment Plant

Beale Air Force Base (AFB or Base) operates a wastewater treatment plant (WWTP) onbase to treat wastewater for use in irrigating areas across the Base. The WWTP is located in the southwest corner of the Base, near the Wheatland Gate.

### History

The Beale AFB WWTP was constructed during World War II and has been upgraded several times to meet water quality standards. The WWTP treats domestic sewage (approximately 250,000 gallons per day [gpd]) from the Housing Area, Main Base, and Flightline. The sewer system has over 40 miles of sewer main lines, the largest being 33 inches in diameter. Treated groundwater from the CG041-013 groundwater treatment system (approximately 300 gallons per minute [432,000 gpd]) is blended with the treated wastewater and then transferred to Pond 4, a 109-million-gallon storage pond. Pond 4 is located southeast of the WWTP, along the east side of J Street. This water (referred to as recycled water) is then pumped to irrigate the Base golf course and areas near the WWTP.

### Present

The aging plant operates 24 hours per day, 7 days a week; however, management has had difficulty attracting quality operators. In addition, it is costly to operate and maintain the aging WWTP. Although the water is treated to acceptable secondary standards, the WWTP does not produce state-of-the-art water quality. A study was performed to analyze the best path forward, and the most favorable option was to convey Beale AFB wastewater to a public or private WWTP and decommission the existing Beale AFB WWTP.

### Future

Currently, Beale AFB has funded a 10 percent concept design for an infrastructure project involving two or three pump stations, an equalization basin (captures peak flows and later returns the flows to the pump station) and 9 miles of sewer pipeline. Once this project is funded and completed, Beale AFB will be able to demolish the current WWTP and realize a significant cost savings through this consolidation (i.e., regionalization) effort. Contaminated groundwater from an abandoned landfill is currently treated and discharged to the WWTP. In the future, the treated groundwater will be sent to Pond 4 for use at the Base golf course. Beale AFB could potentially be out of the wastewater treatment business by the end of 2018.

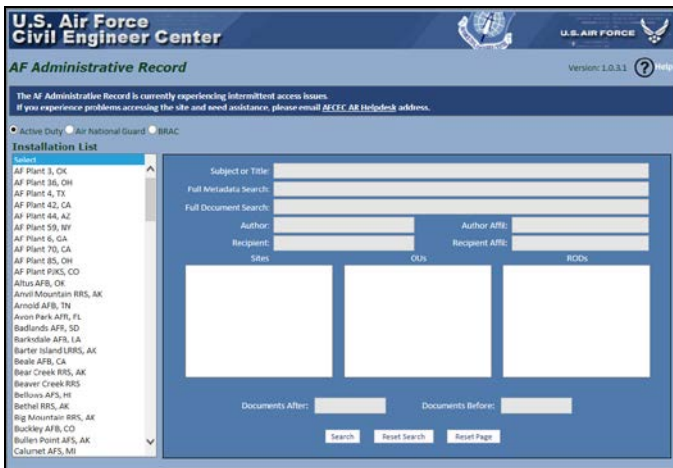


The Wastewater Treatment Plant at Beale AFB .

## Beale AFB Environmental Restoration Program's Information Repository and Administrative Record

An information repository (IR) is a file that contains documents and other information about the site and the CERCLA process. The establishment of an IR provides stakeholders with access to site-related information. It typically includes consent orders, work plans, reports, correspondence, and other documents used by the Air Force to select remedial alternatives. The documents and information contained in the IR reflect the contents of the Administrative Record (AR), which is a legal file that contains information used by the Air Force to select a remedial alternative. In the past, the Environmental Restoration Program's IR and AR were maintained on Beale AFB, requiring community members to contact the Remedial Project Manager to gain access to documents. That has changed. The IR is now available at the Yuba County Municipal Library, which is located at 303 2nd Street, Marysville, CA. Because of the limited shelf space, documents prior to January 2013 are not available at the library; to access those documents, the Remedial Project Manager, Mr. Darren Rector, should be contacted at: (530) 634-2606 or e-mail: [darren.rector.2@us.af.mil](mailto:darren.rector.2@us.af.mil).

The AR can now be viewed by going to the Air Force Civil Engineer Center (AFCEC) online search tool: <http://afcec.publicadmin-record.us.af.mil/>.



The public user interface of the Administrative Record online search tool.

After accessing the public AR site, select Beale AFB on the left list of installations, then enter your site, document title, or a key word in the “Full Metadata Search” block and click “Search.” Documents meeting your search parameters will be displayed below the search parameter section. If a document cannot be found on the Beale AFB AR site, contact the Remedial Project Manager at: (530) 634-2606 or e-mail: [darren.ector.2@us.af.mil](mailto:darren.ector.2@us.af.mil).

## Upcoming Changes to the Restoration Advisory Board

A presentation outlining the importance of the Restoration Advisory Board (RAB) to the Environmental Restoration Program (ERP) and cleanup process was given, which referenced requirements outlined in the original 1996 RAB charter, when the RAB was formed. Since that time, the number of required annual meetings, tours, and newsletters has increased in order to keep the public informed of the ongoing investigations and interim remedial actions for active sites at Beale AFB. The ERP is moving into the next phase as sites are successfully cleaned up and closed, and remedies are operating at sites with remaining contamination. With fewer active sites, changes to the structure of the RAB and the frequency of RAB events are being considered.

The proposed changes will be presented at the November 17, 2016, RAB meeting and will require a quorum for approval. Once approved, the proposed changes will be adopted at the beginning of 2017, when a new community RAB co-chair is elected.

All RAB members are strongly encouraged to attend the November 17 RAB meeting so that a quorum approval is possible. RAB members who are unable to attend are asked to send a replacement to vote by proxy. Highlights of the

proposed changes will be included in the October 2017 newsletter, and the proposed amendment to the RAB Charter will be sent to all RAB members prior to the November 17 meeting.

## Closure Corner

The Air Force is continuing this regular feature in the RAB Newsletter to keep you informed on recent project achievements.

The following Beale AFB sites have been closed since the October 2015 update. These are environmental cleanup sites where the cleanup objectives have been achieved because remedial activity was not necessary or has been completed. No further actions, monitoring, land use restrictions, or management are required, and the sites are considered suitable for unlimited use and unrestricted exposure:

**Site FT029 – Former Burn Pit:** Previous soil response actions have been conducted and have eliminated the need for further remedial action under CERCLA. Further responses for groundwater underlying this site will be addressed as part of Site CG041 (basewide groundwater).



Soil vapor extraction infrastructure at Site FT029 prior to system decommissioning.

**Site SD005 – former SR-71 Shelter Area:** Previous soil removal actions under the Resource Conservation and Recovery Act (RCRA) have been conducted at a solid waste management unit at Site SD005 and have eliminated the need for remedial action, in accordance with CERCLA. Groundwater beneath Site SD005 was not impacted by site activities. Elevated trichloroethene concentrations in groundwater underlying Site SD005 resulting from historical activities at nearby Site SD032 will be addressed as part of Site CG041 (basewide groundwater).

## Site LF033 – Concrete Rubble, Upper Blackwelder Lake:

Based on risk assessment results, risks associated with the concentrations of hazardous substances, pollutants, and contaminants in soil and groundwater are acceptable. No action for soil, soil vapor, sediment, surface water, and groundwater was the selected final response for Site LF033. No action is necessary for the protection of human health and the environment at Site LF033.



Surveying a soil boring location where data used in the Site LF033 risk assessment were collected.

## Site SS508 – Civil Engineering Equipment Yard:

Results of field investigations concluded that there is minimal contamination in soil and surface water at Site SS508. The concentrations of tetrachloroethene (PCE) detected in soil and soil vapor at Site SS508 do not pose an unacceptable risk to human health or ecological receptors at the site and do not pose a continuing threat to groundwater. PCE was not detected in surface water; therefore, no further action or remediation activities are needed for soil and surface water at the site. Groundwater underlying the site will be addressed as part of Site CG041 (basewide groundwater).

**Site SD001 – Westside Drainage Ditch:** Previous soil and sediment remedial actions have been performed and have eliminated the need for further action under CERCLA. Groundwater underlying the site will be addressed as part of Site CG041 (basewide groundwater).



Straw wattles around graded and hydroseeded soil following soil pile removal at Site SD001.

The following sites at Beale AFB that requiring additional action have final remedies in place that are operating successfully:

## Site TU509 – Clinic Underground Storage Tank Site:

Excavation removed contamination caused by total petroleum hydrocarbons, diesel-range organics in the subsurface, accelerating the cleanup of ground water and removal of naphthalene in the soil that could potentially pose unacceptable risk to human health and the environment. Land use controls have been implemented to prevent residential exposure to contaminants remaining in soil due to groundwater smear.

**Site LF013 – Landfill No. 1:** Site LF013 encompasses inactive former Landfill No. 1 and nearby Site WP002. Land use controls are now in place to prevent residential land use, restrict intrusive activities, and inspect the integrity of the soil covers at regular intervals. No further action is necessary for sediment and surface water at the site. Groundwater underlying the site will be addressed as part of Site CG041 (basewide groundwater).

## Site WP002 – Photographic Wastewater Treatment Plant:

The Site WP002 decision document specified no further response action for continued industrial land use and included LUCs. Since Site WP002 is contained wholly within Site LF013, the previously established LUCs for Site WP002 have been transferred to Site LF013, and Site WP002 has been administratively closed.

The final documents for these sites and sites closed prior to this newsletter, that are signed by the Air Force and all regulatory agencies are available for review at the Information Repository at the Yuba County Municipal Library located at 303 2nd Street, Marysville, CA or

# Environmental Cleanup Program



ISSUE 70 – August 2016

by accessing the online Administrative Record at <http://afcec.publicadmin-record.us.af.mil/>.

Keep up-to-date on the status of the Beale AFB site closures with each forthcoming newsletter!

## Restoration Advisory Board Tours and Meetings

You are cordially invited to attend the public RAB meetings and tours. The next RAB tour will be held on September 15, 2016. This tour will be a guided tour of a KC-135 that will return to Beale AFB after 11 years. Beale AFB will be the home of eight KC-135s as part of the 940 Air Refueling Wing.

RAB meetings are held at the One Stop Center for Business and Workforce Development, Second Floor, 1114 Yuba Street, Marysville, CA. The next RAB meeting is scheduled for Thursday, November 17, 2016 from 6:00 to 7:00 p.m.

For more information on the Beale AFB RAB, to be placed on the mailing list, or to inquire about becoming a RAB member, please contact any of the following individuals:

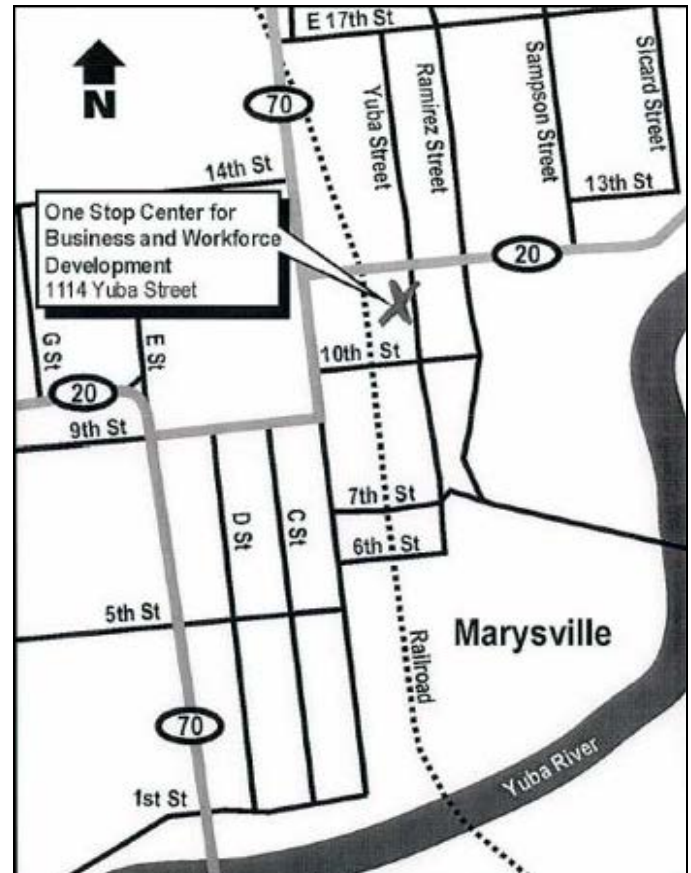
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**Environmental Restoration Program Manager**  
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 (530) 634-2606  
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**Chief, Public Affairs**  
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 (530) 634-8890

For more information on the Beale AFB RAB's upcoming activities, please contact:

**Jill Dunphy**  
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2016 RAB Schedule		
January 21 	February 	March (TBD) 
April 21 	May 	June 16 
July 21 	August 	September 15 
October 	November 17 	December 