



Restoration Advisory Board Update

The Beale Air Force Base (AFB) Environmental Restoration Program (ERP) has been holding its regularly scheduled Restoration Advisory Board (RAB) meetings in person since spring 2022, with record attendance and engaging participation.

The next meeting is scheduled for November 16, 2023, at 6:00 p.m. at the One Stop Center for Business and Workforce Development, located at 1112 Yuba Street in Marysville.

The first meeting of 2024 (and each year thereafter) will be held in February. RAB members unanimously approved this schedule change during the January 2023 RAB meeting. The first meeting of 2024 is currently scheduled for February 15, 2024.

As always, refreshments will be served, and everyone from the community is welcome to attend. We encourage you to bring a friend who is also interested in the environmental cleanup activities at Beale AFB, or may be interested in joining the RAB.

We look forward to seeing you in November!

Environmental Restoration Program Activity Round-up

The ERP at Beale AFB will be busy through the remainder of the 2023 field season and well into the winter.

Field activities scheduled for the fall of this year include installation of a bioreactor at Plume CG041-017; soil vapor monitoring point and groundwater monitoring well installation and soil, soil vapor, and groundwater sampling at Site SS051; and nesting bird surveys at Military Munitions Response Program (MMRP) Site ED631. Additionally, the Groundwater Extraction Treatment System at Site TU002 and the Biosparge System at Plume CG041-018 will both be decommissioned this fall.

The current Five-year Review is well underway; the Draft Final *Beale Air Force Base Third Five-Year Review Report* was submitted to the Central Valley Regional Water Quality Control Board and the California Department of Toxic Substances Control in August 2023 for regulatory review and comment.

A Record of Decision for Site CG044 is in progress and is expected to be finalized in 2024.

Military Munitions Response Program Update: Munitions Terms

During recent RAB meetings, some of the most commonly asked questions have been about munitions items found at Beale AFB. With this interest in mind, we are planning a multi-part MMRP feature in this newsletter about munitions. This issue will focus on common munitions terminology. This is not a complete list of terms related to MMRP sites, but will provide readers with a basic understanding for future newsletter articles and presentations given at RAB meetings. In future issues, we will share descriptions of the types of munitions and munitions debris found at Beale AFB.

- **Artillery ammunition:** Ammunition fired in weapons with bores over 0.60 inch in diameter.
- **Body:** The cylindrical portion of the projectile directly behind the bourrelet and extending to the rotating band.
- **Bourrelet:** A carefully and accurately machined portion of the projectile, located just behind the ogive. It is this portion of the projectile that most nearly conforms to the bore of the weapon. In action, it acts as a forward bearing surface and helps center the projectile in the bore of the weapon.
- **Caliber:** The diameter of the bore of the weapon between opposite lands.
- **Fuze:** A mechanical device to begin the sequencing for detonation of the high explosives within the projectile at the time and place desired.
- **High explosive:** Initiated by a blow or shock, resulting in rapid detonation with a shattering capability. High explosives are substances whose rate of decomposition is so rapid as to preclude their use as propellants, but which bring about a very disruptive action known as detonating substances. High explosives include trinitrotoluene (TNT), picric acid, ammonium picrate (explosive D), nitrostarch explosives, tetryl, mercury fulminate, amatol, lead azide, pentaerythritol tetranitrate (PENT), trimonite, tridite, tetrytol, and pentolite.
- **Igniter assembly:** A mechanism located on the forward end of a rocket motor and consisting of an igniter charge cup and ignition element.
- **Lands:** The raised portions of the rifling of the weapon. The spaces in the lands are called grooves.

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- **Low explosive:** Initiated by a flame or spark, causing relatively slow deflagration that results in a burning propagation of the surrounding medium. Low explosives include black powder, smokeless powder, and compound propellants.
- **Ogive:** The curved portion of the nose of a projectile. The ogive describes an arc whose center lies on a plane perpendicular to the axis of the projectile, with a radius usually expressed in terms of caliber.
- **Projectile:** A missile, either solid or with an explosive, chemical, or inert filler, propelled from a weapon by the force of gases produced by a propelling charge.
- **Rotating band:** A band that causes rotation of the projectile about its axis to give it stability in flight. The rotating band, by engaging the lands and grooves in the bore of the weapon, gives the projectile this rotation.
- **Small arms ammunition:** Ammunition fired in weapons with bores 0.60 inch or less in diameter.

Restoration Advisory Board Tours and Meetings

You are cordially invited to attend the public RAB meetings and tours. **The next RAB meeting is scheduled for November 16, 2023**, from 6:00 p.m. to 7:00 p.m. at the One Stop Center for Business and Workforce Development, Second Floor, 1114 Yuba Street, Marysville, California. **Please stay tuned to your email for updates.**

To find out more about the RAB at Beale AFB, to be placed on the email mailing list, or to inquire about becoming a RAB member, please contact any of the following individuals:

Mr. Darren Rector
Remedial Program Manager, AFCEC/CZOW
 (530) 634-2606
darren.rector.2@us.af.mil

Ms. Michelle Lewis
9 RW/A7I Deputy Director
RAB Co-Chair
 (530) 634-2801
michelle.lewis@us.af.mil

2d Lt Hailey Malay
Public Affairs Officer
 Office of Public Affairs
 (530) 634-8891
hailey.toledo.1@us.af.mil

2023 RAB Schedule			
January 19 	February No RAB Events	March 	April
May 18 	June July August No RAB Events SUMMER		
September 	October 	November 9 	December No RAB Events

