

# Marine Corps Base Camp Lejeune (MCB Camp Lejeune) Restoration Advisory Board (RAB) Meeting Minutes

**MEETING DATE:** March 15, 2017

**LOCATION:** Coastal Carolina Community College, Business Technology Building, Room BT 103, Jacksonville, North Carolina

**ATTENDEES:**

Dave Cleland/NAVFAC Mid-Atlantic	Amanda Todd/RAB Member
Thomas Richard/MCB Camp Lejeune	Michael Curtis/RAB Member
Jennifer Tufts/EPA	Steven Thompson/RAB Member
Randy McElveen/NCDEQ	Dale Weston/RAB Member
Brian Wheat/RAB Member	Betsy Reid/CH2M
Laura Bader/RAB Co-Chair	Matt Louth/CH2M

**FROM:** Betsy Reid/CH2M

**DATE:** April 10, 2017

## I. Welcome and Introductions

Mr. Richard began the meeting and reviewed the agenda.

## II. Update on the Site Unexploded Ordnance (UXO)-29 and Current Path Forward

**Objective:** The purpose of this agenda item is to provide an update on planned Site UXO-29 investigations and the proposed actions going forward.

**Overview:** A presentation was reviewed by Mr. Louth. Three former ranges ranging in operation from 1846-1977 fall within UXO-29: a former Infantry Weapons Demonstration Course, former Artillery Training Area, and former Hand Grenade [Practice] Demonstrator range. In 2013, Military Construction (MILCON) activities were conducted in preparation for a roadway in support of runway expansion at Marine Corps Air Station (MCAS) New River. During this investigation, a 100% geophysical investigation was conducted over 11 acres. Over 1,500 anomalies were investigated and eight munitions and explosives of concern and over 300 munitions debris items were found.

A Preliminary Assessment/Site Inspection (PA/SI) is underway to evaluate the nature and presence of munitions and munitions constituents and whether conditions pose potential risks to human health and the environment. The PA/SI will include a historical records review, site reconnaissance, explosives safety submission (ESS), work plan, field activities, and reporting.

Site reconnaissance of the southern peninsula area was conducted and identified areas of marsh, thick ground vegetation, and deep ravines. Two expended munitions items and an empty ammunition box were found on the ground surface.

Vegetation clearing and surveying transects are being conducted in the northern portion (156 acres) of the site to allow for digital geophysical mapping (DGM) and intrusive investigations. Mag and dig is

ongoing in the southern peninsula (130 acres) and in areas not accessible with DGM equipment. So far, five expended flares have been located in this area.

Surface soil sampling is planned within 2-acre decision units in the northern portion of the site and 35 discrete soil samples are planned throughout the remainder of the site. Samples will be analyzed for explosives residues, perchlorate, and metals. Based on results of the surface soil samples, subsurface soil and/or groundwater sampling may also be conducted.

The ESS was approved and the work plan was finalized in February 2017. Vegetation clearing, surveying transects, and mag and dig was conducted in February and March 2017. Geophysics and soil sampling is currently being conducted. An intrusive anomaly investigation will be conducted in May 2017. If additional subsurface soil or groundwater sampling is required, it will be conducted in summer 2017. The report will be submitted in fall/winter 2017.

A RAB member commented that this area is where Scouts used to camp. The jogging paths and community areas have been closed during this investigation.

### **III. Update on the Site UXO-30 and Current Path Forward**

**Objective:** The purpose of this agenda item is to provide an update on planned Site UXO-30 investigations and the proposed actions going forward.

**Overview:** A presentation was reviewed by Mr. Louth. UXO-30 encompasses 207 acres within northwest portion of MCAS New River. Ranges include overlapping portions of the following: B-6, 50-foot Small Arms Range; B-12, Baffled Pistol Range; and B-14, ABC Warfare Area. Within the B-14, ABC Warfare Area, materials potentially used include chemical warfare training materials (e.g., riot control grenades and chemical agent identification kits). Aerial photos were presented from 1956, 1962, and 1989. The 1956 photo shows a cleared area corresponding to the B-14 location (ABC Warfare Area established via Base Order in 1960). The 1962 photo shows some clearing but no evidence of structures. The 1989 photo shows structures constructed in the southern portion of the site.

Several previous investigations in the area of UXO-30 were summarized as follows:

- The Bachelor Enlisted Quarters (BEQ) MILCON Investigation (2008) covered 16 acres and included collection of surface and subsurface soil, surface water, sediment, and groundwater samples for metals and perchlorate analysis. Metals were detected in soil, groundwater, and surface water above background and North Carolina screening criteria; however, no human health or ecological risks were identified from exposure to site media and MILCON proceeded.
- The Fitness Center MILCON PA/SI (2011) covered 13 acres and included collection of surface and subsurface soil, surface water, sediment, and groundwater samples for metals and perchlorate analysis. Arsenic was detected in soil, surface water, and sediment above background and regulatory screening criteria; however, no human health or ecological risks identified from exposure to site media and MILCON proceeded.
- The UXO-12 and 18 PA/SI (2011) covered the small arms ranges located north of UXO-30 and included collection of surface soil, sediment, and surface water for metals (antimony, arsenic, copper, lead, and zinc) analysis associated with small arms ranges. Arsenic was detected in surface soil, surface water, and sediment above background and regulatory screening criteria; however, no human health or ecological risks were identified from exposure to site media and no further action was recommended.

The UXO 30 PA/SI will include a historical records review, site reconnaissance to identify site features, collection and evaluation of environmental data to assess whether the site has been impacted by

training activities, assessment of human health and ecological risks, and generation of recommendations for future site activities.

The approach in the former Small Arms area is to sample within wooded or grass areas. Surface soil samples will be collected in accessible areas every ½ acre (approximately 160) for metals (antimony, arsenic, copper, lead, and zinc) analysis associated with small arms ranges. Subsurface soil and/or groundwater samples will be collected based on exceedances of soil to groundwater screening criteria or risk screening results from the surface soil samples.

The approach in the B-14, ABC Warfare Area includes conducting 10% geophysics or mag and dig in accessible areas within the 17 acres. 100% of anomalies potentially representing subsurface munitions will be investigated. Surface soil samples will be collected every ½ acre (approximately 29) for explosives residues, perchlorate, metals, and tear gas (CS) and chloroacetophenone (CN) analysis. Subsurface soil and/or groundwater samples will be collected based on exceedances of soil to groundwater screening criteria or risk screening results from the surface soil samples.

The ESS will be submitted in March 2017 and is anticipated to be approved in May 2017. The work plan will be drafted in May 2017 and finalized in July 2017 and field activities will be conducted in summer/fall 2017.

A RAB member asked how much was spent on environmental issues at Camp Lejeune last fiscal year. Mr. Cleland estimated that \$8 million dollars was spent under the Environmental Restoration Program (ERP) last year.

#### **V. RAB Business**

The next RAB meeting is scheduled for June 14, 2017.