

# Descriptions of Proposed Plan and ROD Sites

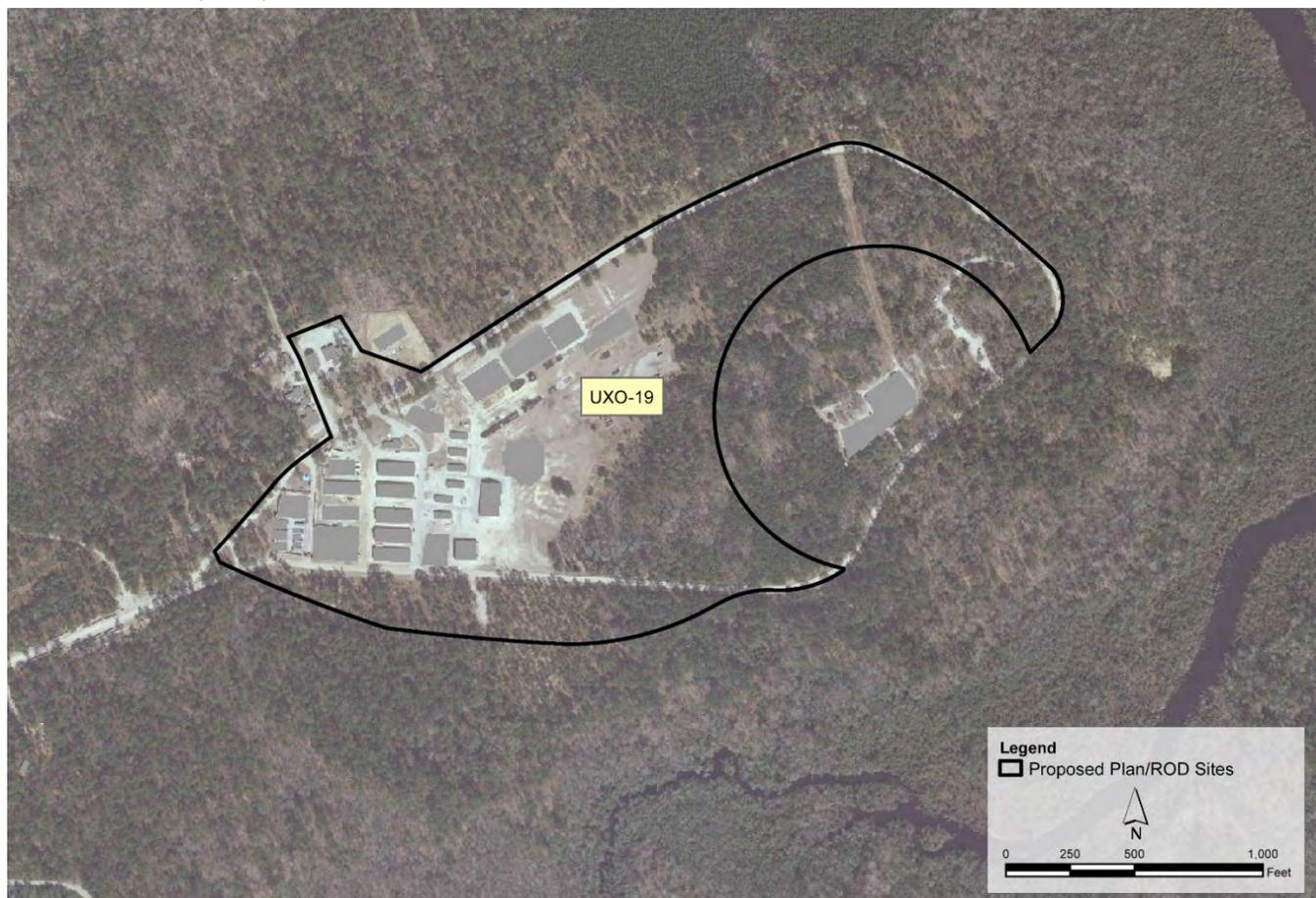
The following subsections discuss the site history, summary of previous investigations, and future activities of the one MMRP site that is in the Proposed Plan and ROD phase of the CERCLA process. Because this site is currently under investigation, the site boundaries encompass the current nature and extent of contamination.

## 6.1 MMRP Proposed Plan/ROD Sites

### 6.1.1 UXO-19 (OU 25)—M-4, Rifle Grenade Range (ASR #2.104), K-22 Practice Hand Grenade Course (ASR #2.111), and M115 Hand Grenade Course (ASR #2.168)

Site UXO-19 is located within the Camp Devil Dog training area. The site initially covered approximately 80 acres; however, a 22-acre area in the eastern portion of the initial site boundary is currently active and used as a Military Operations in Urban Terrain training facility. The current Site UXO-19 boundary, excluding the training facility, covers approximately 64 acres, as shown on **Figure 6-1**. There are eight overlapping ranges within UXO-19 boundaries, three of which were identified for closure under the MMRP. The M-4 Rifle Grenade Range (ASR #2.104) was used between 1950 and 1960. Reported munitions used were M28 and M29 rifle grenades, white phosphorus hand and rifle grenades, pyrotechnics, and demolitions. The K-22 Practice Hand Grenade Course (ASR #2.111) was used between 1950 and 1960 to practice grenade throwing techniques. Facilities included a bunker and foxhole. The M115 Hand Grenade Course (ASR #2.168) was used from 1970 to 1977 for high explosive hand grenades. The range consisted of six throwing pits, six control pits, and a barricade with two observation ports.

FIGURE 6-1  
MMRP Site UXO-19 (OU 25), ASR #2.104, ASR #2.111, and ASR #2.168



Previous investigations are listed in **Table 6-1**.

TABLE 6-1  
 Previous Investigations Summary, MMRP Site UXO-19 (OU 25), ASR #2.104, ASR #2.111, and ASR #2.168

Previous Investigation/Action	Date	Activities
Focused Preliminary Assessment/Site Investigation (CH2M HILL, 2010)	2010	In support of MILCON activities in the vicinity of the former grenade ranges, soil and groundwater sampling, 10 percent DGM of the former range area, 100 percent DGM of the MILCON footprint, and an intrusive MEC investigation were initiated in FY 2009. Samples were analyzed for explosives residues, metals, and perchlorate, and two subsurface soil samples were analyzed for VOCs. No unacceptable risks to human health or the environment were identified in site media. Approximately 4,465 geophysical anomalies were identified during DGM, 4,417 of which were intrusively investigated. 42 items were classified as UXO and detonated on site, and other MEC items were discovered and removed.
Remedial Investigation/ Feasibility Study (CH2M HILL, 2014)	2011-2014	<p>Field activities were conducted in support of MILCON from 2011 to 2013 and included 100 percent DGM and intrusive in the undeveloped areas of the site. Approximately 47,000 geophysical anomalies and 24 saturated responses areas were identified for intrusive investigation. Approximately 450 MEC items were identified and destroyed through controlled detonations, and over 50,000 MPPEH items were identified.</p> <p>Soil and/or groundwater samples were collected following controlled detonation and within a battery burn pit that was discovered on site. Soil results were above screening criteria in two of the detonation locations and within the burn pit. Soil investigation-derived waste was excavated from these locations; confirmation samples were collected; and no unacceptable human health risks remained.</p> <p>Based on the previous investigation activities, no unacceptable risks to human health or ecological receptors are expected from exposure to MC in site media. Potential hazards are associated with exposure to MEC present within developed areas during intrusive activities at any depth and within the undeveloped areas at depths greater than 2 feet bgs. To address these hazards, remedial alternatives evaluated include no action, LUCs, subsurface removal of MEC in undeveloped areas (via excavation, DGM, and intrusive investigation) and LUCs, and subsurface removal of MEC (via excavation and sifting) and LUCs.</p>
Proposed Plan (CH2M HILL, 2015)	2015	A Proposed Plan was issued to solicit public input on the preferred alternative (LUCs) and a public meeting was held. General comments for informational purposes were addressed during the public meeting and no written comments were received.

### 6.1.1.1 Future Activities

A ROD documenting the selected remedy will be completed in FY 2015 followed by a RD (**Schedule 6-1**).

**Schedule 6-1**  
**MMRP Site UXO-19 (OU 25), ASR #2.104, ASR #2.111, and ASR #2.168**  
**IRP & MMRP Site Management Plan FY 2016**  
**MCIEAST-MCB CAMLEJ**

ID	Task Name	Duration	Start	Finish	2016											
					Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan
1	<b>ROD</b>	<b>125 days</b>	<b>Wed 2/18/15</b>	<b>Tue 8/11/15</b>												
2	Draft ROD	51 days	Wed 2/18/15	Wed 4/29/15												
3	Review Period (Navy/Base)	30 days	Thu 4/30/15	Wed 6/10/15												
4	Review Period (USEPA/NCDENR)	30 days	Thu 6/11/15	Wed 7/22/15												
5	Final ROD	14 days	Thu 7/23/15	Tue 8/11/15												
6	<b>RD</b>	<b>134 days</b>	<b>Thu 7/23/15</b>	<b>Tue 1/26/16</b>												
7	Draft RD	60 days	Thu 7/23/15	Wed 10/14/15												
8	Review Period (Navy/Base)	30 days	Thu 10/15/15	Wed 11/25/15												
9	Review Period (USEPA/NCDENR)	30 days	Thu 11/26/15	Wed 1/6/16												
10	Final RD	14 days	Thu 1/7/16	Tue 1/26/16												