FORMER CAMP SAN LUIS OBISPO: SITE DESCRIPTION AND DATA COLLECTION OVERVIEW

DR. DANIEL STEINHURST
Nova Research, Inc.
1900 Elkin Street, Suite 230
Alexandria, VA 22308
(202) 767-3556
dan.steinhurst@nrl.navy.mil

The ESTCP unexploded ordnance (UXO) Classification Study is a multi-year effort to study the implementation of UXO classification technologies and processes in cleanup operations being conducted on real sites under operational conditions in cooperation with regulators and program managers. To build upon the success of the first Study demonstration at the former Camp Sibert, AL (2007), a second demonstration was conducted in 2008–2009 at the former Camp San Luis Obispo (SLO), CA. This was a site with more challenging terrain and topography and a wider mix of targets-of-interest than were seen at former Camp Sibert. Located on the central California coast, the demonstration site was situated to include one former mortar target located on a hillside within the former Camp San Luis Obispo FUDS. Historical records detail a wide variety of munitions usage on the formerly used defense site (FUDS) as a whole with indicated use of 60mm, 81mm, and 4.2-in mortars and 2.36-in rockets within the Study demonstration area.

Data collection was conducted in three phases: (1) site characterization, (2) geophysical data collection, and (3) intrusive investigation/validation. Initial survey results from geophysical sensors were used to define the Study demonstration boundaries and intrusive sampling of small areas was used to support the site use characterization from the historical records. The main portion of the demonstration focused on the collection of high-quality geophysical data with a range of geophysical sensors covering the spectrum from commercially-available to state-of-the-art electromagnetic induction (EMI) sensors currently approaching transition to industry. After geophysical data collection was complete, approximately 2,000 geophysical anomalies were intrusively investigated to provide ground truth as both training data for the data processing demonstrators and as validation data for the Study as a whole.