

MEC Removal Action, Camp Howze, TX

This project was performed as subcontractor for Parsons Engineering with the ultimate customer, USACE, Ft. Worth District. USA's original scope consisted of UXO support to clear 300 acres. After completion of this scope, USA still had over one-third of UXO clearance budget left, which resulted in additional work being performed. The budget savings were achieved in part due to cooperative teamwork among the prime & subcontractor, and efficient field operations. USA supported the investigation of over 1 million anomalies, location of 1,326 live UXO items, completion of 5,681 grids, collection of over 74,554 pounds of munition debris items and over 63,593 pounds of scrap metal. A total of 2,165.6 acres were cleared of MEC. UXO items found included grenades, fuzes, 20mm, 37mm, and 105mm HE projectiles and 2.36" rockets. A recent survey received from Parsons stated "Excellent" rating for overall performance of the project. The Parsons/USA team completed 139,544 work hours with no lost time accident.



MEC Investigation, Bremerton, WA



USA was selected by Bay West, Inc. as a subcontractor to provide MEC investigation at the Naval Ammunition Depot Marine Park (NADM), Kitsaw County Health District (KCHD), and Naval Ammunition Depot (NAD) Park, WA. This investigation was performed under the FUDS program for USACE, Seattle and Omaha Districts. USA identified and removed surface MEC, evaluated potential presence of subsurface MEC, and quantified the associated risks. USA performed digital geophysical survey, DGM data analyses, reacquisition of the selected anomalies, and intrusive investigation of selected anomalies. Upon completion of the project, an After Action Report (AAR) was prepared. A total of 17.56 acres were characterized by DGM and 7.95 acres by mag and flag. USA's Senior Geophysicist and USA's GIS Manager received *Certificates of Appreciation* signed by the USACE Seattle District FUDS Program Manager and the Project Manager for their quality work and dedication.

MEC Services at Vieques Island, Puerto Rico

Within the last 5 years, USA has worked on 27 subcontracts for CH2M Hill under their Navy CLEAN contract on the island of Vieques. These services included surface & subsurface MEC investigation and removal; underwater investigation; UXO avoidance during soil borings & fence construction, MEC disposal, UXO escort for geophysical surveying, and vegetation removal. USA safely disposed of over 1,000 MEC items. This work has been performed at various sites on Vieques, including Red, Blue and Green beaches, various SWMU sites, and locations at the Naval Ammunitions Supply Detachment. USA utilized digital data collection methods by using Personal Data Assistant (PDA) hardware for these tasks. USA developed and engineered in-house software programs that when integrated with geophysical analysis, allowed us to produce dig lists. The data was ultimately integrated into a standard MEC type database and Geographical Information System (GIS) that was used by the prime contractor. This led to a cost savings, as well as eliminating the duplication of data. It also provided a cradle-to-grave approach for each anomaly selected from investigation and final disposal (if required) to close out the anomaly.



Construction Support, Savanna Army Depot, IL



USA was selected by Montgomery Watson Harza (MWH) to perform this construction support during Phase I and II operations for sites 15 and 33 at the Savanna Army Depot Activity (SVDA), Savanna, IL. The ultimate customer for this project was USACE, Louisville District. USA supervised a UXO team providing UXO clearance, excavation, and screening of lead impacted soils. Phase I consisted of large surface debris removal and geophysical transect surveys. Phase II consisted of UXO avoidance support and escort services provided to the various contractors performing the soil excavation activities at sites 15 and 33. During intrusive investigation operations, USA investigated 3,524 anomalies. 6,675 pounds of munitions debris and metal debris were removed and 265 UXO items were safely disposed of during operations. Items recovered included hand grenades, 35 mm, 75 mm, and 155mm projectiles. In addition, 4-inch Stokes Mortars were uncovered.

UXO Support at Aberdeen Proving Ground (APG), MD

Since June 2004, USA has performed UXO support on over 40 work orders at APG (active installation) and Edgewood Areas as subcontractor to General Physics' (GP) BEST II contract with the U.S. Army, Aberdeen Proving Grounds. For example, for the Canal Creek Study Area Potential Source Definition Study work order, USA provided a UXO supervisor to perform UXO avoidance activities to support GP's sampling crew. During intrusive sampling, USA provided a two-man UXO team to perform a surface/subsurface UXO avoidance and identification survey of the access routes and each of the intrusive sampling and Direct Push Technology (DPT) sites. In addition, USA has provided UXO avoidance and clearance support to other prime contractors at APG, including EA Engineering, ARCADIS, and Weston. For their work at APG, two of USA's UXO personnel, received *Letters of Appreciation* from Brigadier General (BG) James Moran, U.S. Army.

Underwater Diving & UXO Avoidance, Bloodsworth Island, MD

CH2M HILL selected USA as the UXO subcontractor for Diving Operations and MEC Avoidance in support of HTRW sampling on the shoreline and in the waters surrounding Bloodsworth Island Range Facility. USA provided all of the qualified personnel, diving equipment, and services to successfully perform the the project. USA collected sediment samples on range boundaries and water samples of background areas using a water-catch device, provided a Ponar Dredge for the collection of background bottom sediment samples outside the range boundaries, collected soil sediment and water run-off samples from Bloodsworth Island, and performed UXO Escort services for U.S. Environmental Protection Agency, NAVFAC, and Naval Air Station Patuxent River personnel in visits to Bloodsworth Island. All aspects of the project, including diving, were completed without incident, ahead of schedule and under budget.



RCWM Scoping and Services Study at Multiple Sites



USA has provided field services assistance with this intrusive investigation including handling of conventional Munitions and Explosives of Concern (MEC) items, and Recovered Chemical Warfare Materials (RCWM) items, and processing of munitions debris. USA's role is primarily the identification of CWM, due to the unique nature of working in a CWM environment and, sampling and analysis tasks. For this effort, USA trained personnel in the proper use of Personnel Decontamination Stations (PDS), Personnel Protective Equipment (Level A), and the use of air monitoring equipment for intrusive investigation operations and sampling. To date, USA has performed work at various locations including Camp Crowder, MO; Brooksfield Army Airfield, FL; Harvard, NE; Camp Sibert, AL, and Spring Valley, D.C. During the performance of these field efforts, anomalies were investigated, and munitions debris was air sampled prior to disposal in the event of CWM contamination.