

**PROJECT HIGHLIGHTS**

- *First Remedial Investigation of a Fuze & Booster Line Conducted*
- *Benefits to Multi-Incremental Sampling are:*
  - *Improves data reliability and to better represent site characteristics*
  - *Enables fewer samples for risk analysis*
  - *Reduces number of samples for lab analysis*
  - *Reduces chance for missed contaminants*
  - *Reduces sampling and processing induced errors (higher than lab error)*
  - *Produces high quality data at a much lower cost*

**RAVENNA ARMY AMMUNITION PLANT (RVAAP)**

RVAAP encompasses approximately 21,000 acres and was used to manufacture explosive material. RVAAP manufactured explosives as well as loaded, assembled and packed a variety of munitions. PIKA personnel have been involved in various environmental remediation (ER) activities at 19 of the 51 Areas of Concern (AOC) sites. They have been involved in providing ER services ranging from initial site assessment and remedial investigation to decontamination and demolition of explosive manufacturing facilities to soil remediation. PIKA personnel have also been involved in managing numerous environmental remediation activities including delivery orders ranging from initial site assessments and remedial investigations, interim removal actions, laboratory analysis, data validation, risk assessment, data analysis, bioremediation to decontamination and demolition of explosive manufacturing facilities and soil remediation. Each task order included a variety of primary tasks, each with distinct start dates and performance-based schedules.

**ENVIRONMENTAL REMEDIATION SERVICES**

- Load Line 11 - Artillery Primers and Fuzes
- First Remedial Investigation of a Fuze and Booster Load Line
- Jenkins Explosive and XRF Field Screening to Optimize Sample Selection
- Data Identified the Need for IRA on Contaminated Soils and Sewers
- Risk Assessment Consistent with OEPA Requirements
- Upper and Lower Cobbs Pond
- RI of Former Sedimentation Pond, now an Aquatic Habitat
- Chrome VI, Nitrates and Explosives - Contaminants of Concern
- Ecological Risk Evaluation Critical
- Field Screening Saved Thousands in Analytical Costs
- Central Burn Pits - Electrical Components, Ordnance Boxes
- Explosives, PCBs, Metals and Organic contaminants of Concern
- Field Screening Optimized Sampling Locations and Analytical Suite
- Site is Proximal to High Quality Sand Creek
- Load Line 6 - Fuze Assembly & Research
- Shock Sensitive Primary Explosives - Mercury Fulminate and Lead Azide
- Firestone Test and Research Chamber
- Shaped Charges, Fragmenting and Armor- Penetrating Research Conducted
- UXO Support Essential for Personnel Safety

