

**Decontamination, Decommission,  
Demilitarization, and Disposal  
Services at Joliet Army Ammunition  
Plant Load Lines**

**JOLIET ARMY AMMUNITION PLANT (JAAP)**

In 1993, the 23,546-acre JAAP, located 40 miles southwest of Chicago was declared excess federal land. JAAP, originally known as the Elwood Ordnance Plant (EOP) and the Kankakee Ordnance Works (KOW), and later as the Joliet Arsenal, was authorized by the federal government in 1940 to produce ammunition and explosives for the U.S. military. Both the EOP and KOW became a training base that supported the Allies' effort. The Elwood facility loaded over 926,000,000 bombs, shells, mines, detonators, fuzes, and boosters, and the Kankakee facility set a national record producing over one billion pounds of TNT. The JAAP Load-Assembly-Packing (LAP) Area, located in Will County, Illinois, covers 22 square miles of an inactive Army munitions facility in Joliet Illinois. The site, which is adjacent to the Manufacturing (MFG) Area, is 10 miles south of Joliet, Illinois. From the early 1940s through 1977, high explosive artillery shells, bombs, mines and small arms ammunition were loaded, assembled and packaged on the site. Other activities included testing of ammunition, washout and renovation of shells, and burning and demolition of explosives.



- Design-Build Drinking Water Treatment System for \$200,000 Less Than "Canned" Treatment System Design.
- Achieved Drinking Water Quality Objectives for Treatment System.
- Completed Project 2 Weeks Ahead of Schedule.



- Decontamination Using High-Pressure Washing and Thermal Decomposition
- Cost Savings to Government by Providing Explosively Contaminated Wood as Dunnage for Future Burn
- 5X Scrap Metal Processed by Mechanical Methods and Recycled at Smelter/Foundry

- PIKA Personnel were Involved in the Abatement of Transite and ACM Pipe Insulation to Facilitate Explosive Disassembly Operations & Control Costs
- Removal of Transite from 4 Load Lines
- Recovery and Disposal of Bulk Explosives, Hydraulic Fluids, PCB Ballasts & Transformers, Peeling Lead Paint Chips, Mercury Switches



- Remote-Detonated, Shape Charges Used to Sever 1X Process Equipment
- Facilitates Safe Disassembly of Melt Pour Vats, Sealed Vessels and Pipe Flanges & Valves
- Thermal Decontamination of Internal Surfaces Using Det Cord



**PROJECT HIGHLIGHTS**

- *Explosive Disassembly of Process Equipment and Piping Using Shaped Charges at Groups 2, 3, 3A and 61*
- *Inspection and Certification of LL3 and Buildings and Covered Walkways*
- *Removal of Various Hazardous Materials*
- *Utilized PDA's for Electronic Field Data Management*