

# Project Summary

## Brownfield Site: Former Foundry

**Client:**

**Product Service and Manufacturing**

**Contact:**

Mr. Michael Westover  
Phone: (414) 384-6780

**Project Manager:**

Mr. Kendrick Ebbott, P.G.,  
CGWP

**Regulatory Status**

Closed with GIS listing,  
Cap Maintenance Plan

**Project Features**

- Expedited Site Investigation with Mobile Laboratory
- Abandoned Container Disposal
- \$450,000 WDCOM Brownfield Grant
- Soil Excavation
- Soil Disposal Permitting
- Foundry Sand Disposal using Vacuum
- Groundwater Assessment
- Groundwater Natural Attenuation
- Off-site Source of Contaminants

**BEFORE**



**AFTER**



**Introduction and Value to Client**

Alpha Terra worked with a private manufacturer to facilitate redevelopment of a bankrupt former foundry in West Milwaukee into a storage facility for custom metal fabrication. The project turned a nearly worthless property into an active facility exceeding \$1,000,000 in valuation.

**Synopsis**

A \$450,000 Brownfield Grant was obtained from the Wisconsin Department of Commerce (WDCOM) to defray costs for the environmental activities. Alpha Terra Science was retained to perform a site investigation and direct remediation activities.

Investigation results indicated the entire property was covered with up to 10 feet of foundry sand fill that contained elevated concentrations of polynuclear aromatic hydrocarbons (PAHs). Elevated lead and chlorinated VOCs were also present in discrete areas, and impacted soil was present at a former heating oil UST.

Alpha Terra Science directed the inventory and proper disposal of drums of residual chemicals and waste materials. Foundry sand from the building roof and grounds were permitted for disposal and hauled to a landfill for beneficial use as daily cover. Excavation and disposal of approximately 1,500 tons of contaminated solid and hazardous waste was completed from three discrete areas.

Nineteen groundwater monitoring wells were installed and sampled, and Alpha Terra Science successfully demonstrated that capping and natural attenuation could address remaining groundwater impacts. Worker exposure to contaminant vapors was demonstrated to be of minimal concern as a potential health issue. Closure was obtained after demonstration that off-site soil and groundwater conditions have likely influenced the subject property.

The project required approximately three years from investigation to closure, including extensive delays for WDNR review.