

Project Profile
Paoli Non-Rail Yard Site

Description:

Location: Paoli, Pennsylvania

EPA Region III Estimated Value: \$8.0 Million

Contract Value: \$6.0 Million

Actual Value: \$4.0 Million

Client: Penn Central Corporation

Major Activities

- Consulting Services and Negotiation
- Site Characterization
- Remedial Engineering and Design
- Remedial Implementation
- Public Interaction

This federal EPA Superfund site is comprised of the Paoli Rail Yard and a 400 acre watershed associated with the Rail Yard property. Other PRPs were ordered to conduct the work on the Rail Yard property. UMC staff has been involved with investigation and remedial actions on the Non-Rail Yard properties. The Non-Rail Yard property includes a number of residential properties as well as three tributaries and two downstream creeks. Initial work for both the residential properties and the streams focused on review of work conducted under EPA's direction by other consultants. This review was followed by a series of negotiations with EPA and the preparation of two work plans: one to

fully characterize the residential properties of concern and another to gather useful and timely information regarding existing condition of stream sediments. Each work plan included a Design Team and Management Plan, a Sampling and Analysis Plan, requirements for Pre-Design Studies, design criteria assumptions, tentative treatment schemes, a Remedial Design Contingency Plan and a project schedule. A Quality Assurance Program Plan and a Site Specific Health and Safety Plan were submitted with each work plan. The work plans were approved and the investigations were conducted.

The residential pre-design investigation included collection of approximately 1300 soil samples at 44 residential properties. The pre-remedial residential investigation identified the residential properties where the arithmetic property-wide average of PCB concentrations exceeded the 2 ppm performance standard set out in the ROD for the Site.

The investigation for the streams included the collection of approximately 650 samples at 163 stream bed and floodplain locations. This investigation identified the locations in the stream beds and the floodplains where PCB concentrations exceeded 10 ppm (an immediate performance standard for the floodplain areas) or 1 ppm (the performance standard for the stream deposition areas).

UMC subsequently submitted the results of the pre-remedial investigations with Remedial Design Workplans (one for the residential properties and another for the streams). A Construction Quality Assurance Plan, a Site Specific Health and Safety Plan, and a Contingency Plan were developed and submitted with each work plan.

The design documents describe the procedures for the removal of soil and sediment with elevated PCB concentrations from each location, the collection of confirmation samples and the restoration of excavated areas. The documents also discuss how excavated soil and sediment will be transported to the Rail Yard Site Property for staging or disposal (depending upon the PCB concentration).

The EPA has approved the design for the residential portion of the remedy, which is currently being implemented. At the identified properties, soil from designated areas that exhibits PCB concentrations greater than 2 ppm is being removed and transported to the Rail Yard Property owned by AMTRAK for disposal.

Additional work for this project included:

- Negotiation of access agreements with property owners;
- Participation with EPA in public meetings explaining each phase of the project;
- Sampling of fish and invertebrates in the streams per EPA's request;
- Negotiations with the Rail Yard Property PRPs related to soil acceptance and use of the Rail Yard;
- Satisfaction of EPA requirements for subcontractors including laboratories.