Demonstration Project
MEW

Project Name: Missouri Electric Works Site (MEW)

Project Location: Cape Girardeau, MO

Owner: MEW Site Trust Fund Donors

Consultant: Sverdrup, Inc.

Time Frame: March-June, 1997

Site Information: Missouri Electric Works previously sold, serviced and remanufactured transformers, electric motors, and electrical equipment. The MEW site includes all areas on and off the MEW property that have been impacted with PCBs above the action limits of 10 ppm from 0 to 4' deep and 100 ppm below 4' deep.

CoCs: PCB (Aroclor 1260)

Soil Characteristics: The MEW site is on 15 to 25 feet of weathered and unweathered loess that sits on Ordovian-aged sedimentary formations. The surficial loess deposits are typically brown, firm, silty clays.

Groundwater: The shallow water-bearing zone occurs between 30 and 60 feet below ground surface (bgs).

Site Dimensions: The MEW property is located on a 6.4-acre tract adjacent to Highway 61 in a commercial/light industrial area. Additional soil is contaminated in adjacent off site areas.

Project Goals: Demonstration of TerraTherm's ISTD process through the application of thermal wells and blankets to achieve a clean-up goal of 2 ppm.

Project Approach: Installation of 12 thermal wells spaced on 5-foot centers. Wells were installed to a depth of 12 feet. Application of two thermal blankets to treat contaminated soil to a depth of 18 inches, and the demonstration of an ex-situ blanket application for stockpiled soil.

Project Staffing: Site personnel consisted of a project manager, a staff engineer, a supervisor, two environmental technicians, two electricians, a health and safety officer, three contract laborers, and a clerical person.

Subcontracting: TESI subcontracted some labor, drilling and electrical services.

Shell ATL Support: Provided technical support throughout the project.

Project Time Line: TESI mobilized to the site in March '97, with site construction beginning during the same month. Thermal treatment lasted from 10-45 days, depending on the thermal configuration for the three different processes, and was completed in June '97. TESI demobilized all personnel and equipment from the site in July '97.

Project Results: All clean-up goals were met and pertinent information was produced for the continued development of the ISTD ex-situ operations.