

PROJECT SNAPSHOT

TCH Treatment of Three Separate Treatment Areas at a Brownfield Site

Location: Syracuse, New York

Client: Pioneer Companies

Contamination: CVOCs

Volume: 16,210 yd³

Goal: Remove DNAPL, and reduce PCE and TCE to <5.6 mg/kg and <2.8 mg/kg, respectively

Duration: 330 days

Heaters: 288

Mass Removed: 86,000 lbs.

WHAT MAKES THIS PROJECT UNIQUE?

A heavily contaminated Brownfields site in Central New York was remediated and redeveloped using a combination of thermal conduction heating (TCH) for DNAPL source removal and Monitored Natural Attenuation for polishing. Removal of the source area allowed rapid redevelopment of the property into valuable commercial properties.

IMPORTANT PROJECT DETAILS

- Approach:** TCH heaters were installed to depths between 23 and 30 ft bgs to heat the target treatment zone (TTZ) to 100°C. 25 Horizontal vapor extraction wells (HVEWs) were installed beneath an insulated vapor cover to ensure pneumatic control and effective extraction of steam and COC vapors above the shallow water table.
- Challenges:** Moderate to high groundwater velocities within the fill and underlying marl required installation of a sheet pile cutoff wall.
- Results:** The performance of the thermal remedy was documented by the collection of samples from 51 locations. All areas met the cleanup standards after thermal treatment. The site is redeveloped and the location of a large home-improvement store and a federal credit union.



DURING



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