

# Active Industrial Site – Northern, New Jersey

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## Technology Used

Triad  
Direct Push Unit  
Direct-Sensing: Membrane  
Interface Probe (MIP)  
EQuIS Database  
3D modeling  
GIS/GPS

## Analysis Performed

VOCs by GC/MS

## MIP Detectors

PID/ELCD

## Matrix of Concern

Soil  
Groundwater

## Primary Contaminants of Concern

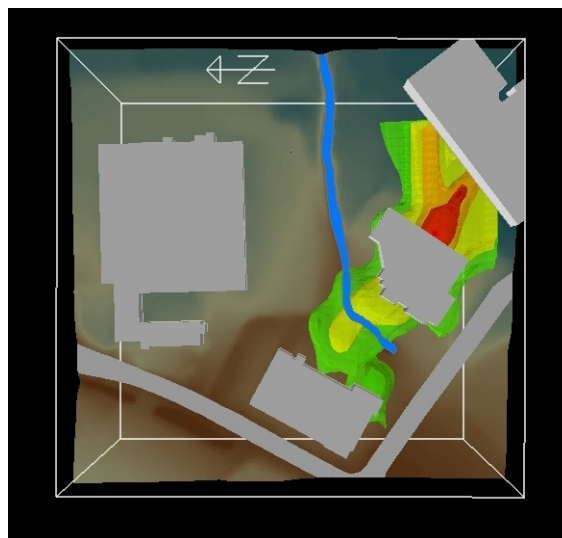
PCE

## Period of Work (2 events)

Two weeks, summer of 2007 and  
spring of 2008

## Summary

MIP Locations: 90  
Total MIP footage: 1336'



## Project Summary

### Site Description

Industrial site located in Northern, New Jersey

### Project Description

Traditional investigation techniques spanning over 15 years failed to delineate a definitive PCE source for a dissolved phase PCE plume in overburden, weathered rock and consolidated rock aquifers at the subject site. S<sub>2</sub>C<sub>2</sub> was contracted to provide technical support for all phases of the investigation using the Triad process: Systematic Planning, Dynamic Work Strategies and Real Time Measurements. After reviewing the historical site information, a decision was made to use the MIP probe to locate and delineate PCE impacts in overburden and to the extent possible within weathered rock at the subject site.

### Project Results

S<sub>2</sub>C<sub>2</sub> was able to rapidly develop a Conceptual Site Model (CSM) for this project by integrating direct sensing tools targeted to the specific constituents of concern. Utilizing real-time field measurements and an adaptive sampling plan, full characterization of the PCE plume was completed in a matter of weeks. S<sub>2</sub>C<sub>2</sub> provided complete integration of historic and new data into an EQuIS database and evaluated all site data using a GIS 3D model of site conditions. Upon completion of the investigation the subject plume was determined to be coming from an off-site source.

*S<sub>2</sub>C<sub>2</sub> inc.*

*Streamlined Site Characterization & Closure*