

Brownfields Redevelopment Site – Newark, New Jersey

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Technology Used

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

Analysis Performed

VOCs by GC/MS

Matrix of Concern

Soil
Groundwater

Primary Contaminants of Concern

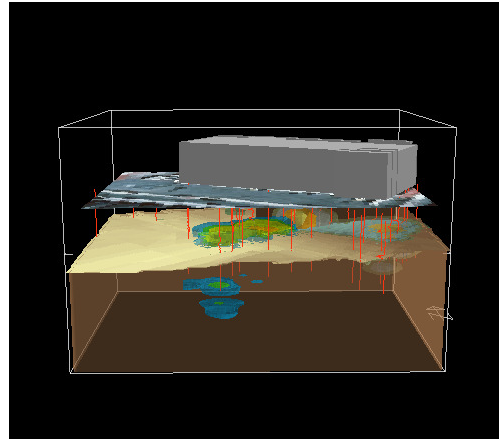
LNAPL
VOCs

Period of Work

Two weeks, Winter 2007

Summary

FFD Locations:	34
MIP Locations:	46
Conductivity Locations:	12
Groundwater Locations:	6
Soil Boring locations:	10



Project Summary

Site Description

Brownfields redevelopment site located in Newark, New Jersey

Project Description

S₂C₂ was contracted to provide TRIAD support services for an investigation of a brownfields redevelopment site in Newark, New Jersey. S₂C₂ provided technical support for all phases of the Triad process: Systematic Planning, Dynamic Work Strategies and Real Time Measurements. All direct-push services, including all direct sensing, and all analytical services were provided by S₂C₂. Multiple direct-push units utilizing Fuel Fluorescent Detector (FFD), Membrane Interface Probe (MIP) and electrical conductivity direct sensing tools to delineate free-phase hydrocarbon impacts as well as dissolved phase chlorinated solvent impacts. S₂C₂ 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.

Project Results

S₂C₂ was able to rapidly develop a Site Conceptual Model (SCM) for this project by integrating direct sensing tools targeted to the specific constituents of concern. An adaptive sampling plan was implemented to fully delineate both free-phase and dissolved phase impacts in a complicated post glacial depositional environment. The final 3D GIS model was used to evaluate clean-up costs for the redevelopment of the property.

S₂C₂ inc.

Streamlined Site Characterization & Closure