

# C<sup>3</sup>

# Case Study:

Ex Situ Soil Vapor Extraction

*Glendale, CA*

## Project Overview

**Location:**  
Glendale, CA

**Duration:**  
3 months

**Contaminants:**  
PCE & BTEX

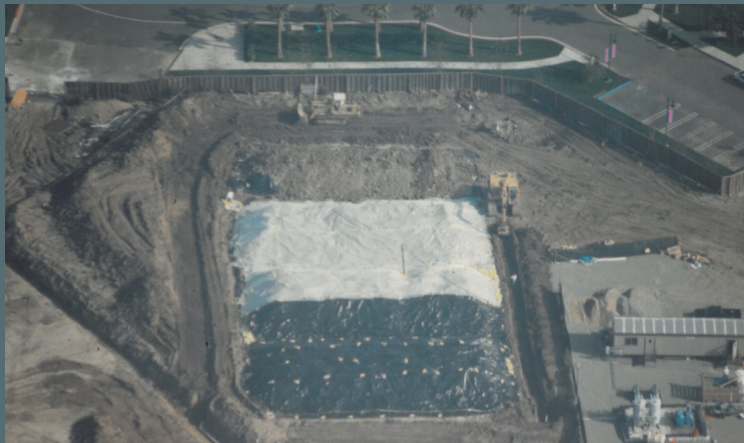
**Off-Gas  
Treatment  
Efficiency:**  
>99.9%



## Site History

2,100 cubic yards of soil impacted by PCE and gasoline range organics were excavated from a former industrial yard. Excavated soils were placed onsite and encased within an impermeable sheath. Vapor and condensate extraction piping was placed throughout this soil remediation network. Initial mean soil concentrations measured 505 mg/kg for PCE and 1,207 mg/kg for BTEX

compounds. Soil vapor extraction was designed to extract >75% of PCE and BTEX compounds from the onsite soil to meet removal objectives.



## Performance Evaluation

Over the course of three months of operation during warm summer months, 83% of the PCE mass and 78% of the BTEX mass was removed (extracted as vapors) from the soil matrix. Resultant contaminant vapors were treated with a 100 scfm C3 Technology off-gas condensation system. Approximately 2,380 pounds of PCE and 5,340 pounds of BTEX compounds were recovered over the course of

the accelerated remedial action. The vapor treatment system complied with strict air quality permitting requirements and removed >99.9% of air toxics from treated vapors.