



## HYDROGEN PEROXIDE TREATMENT AND DUAL PHASE EXTRACTION (DPE) TESTING

### COMMERCIAL TRUCKING TERMINAL INDIANAPOLIS, INDIANA

**Client:** Private Consulting Firm

**Contaminants:** BTEX/ MTBE and PAH's

**Impacted Matrix:** Soil and Ground Water

**Scope of Work:** Modified Advanced Oxidation Technology (mAOT) Treatment of Source Area Soils/ Ground Water and Dual-Phase Extraction (DPE) Pilot Test Design and Facilitation.

**Oxidant:** Hydrogen Peroxide

**Project Specifics:** SE SCIENCES was contracted to provide source area soil and ground water treatment via chemical oxidation methodologies; and also design and facilitate a DPE pilot study in outlying areas of concern.



mAOT injections were implemented over the course of one week utilizing proprietary oxidant/ catalyst mixtures in combination with Subterranean Hydrocarbon Oxidation Circulation (SHOC) in-situ delivery techniques. Geochemical indicator parameters and contaminant concentration levels were monitored at scheduled intervals over the period of 90-days to assess contaminant reduction within the targeted source area (decrease of approximately 67% to 75%).

DPE pilot testing activities were implemented in outlying areas of impact to assess: hydrogeological control, radius of capture, radius of influence, air emission levels, and overall technology efficacy. Pilot testing design, facilitation, interpretation, and construction of results summary letter report were conducted by SE SCIENCES personnel.

**Current Site Status:** Post Closure Monitoring