



Oppenheimer  
Biotechnology Inc.

## Case Study

### Site Description - Trichloroethane (TCE) and Perchloroethylene (PCE) contaminated groundwater.

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**Site Location:** Northeast USA

**Site Description:** An industrial metal fabrication facility in southeast Massachusetts, groundwater contaminated with perchloroethylene (PCE), trichloroethane (TCE), and other industrial solvents.

Groundwater at this facility was contaminated by a surface release of used degreasers. Both overburden and bedrock aquifers were impacted. Assessment of the site indicated that the two are in hydraulic community.

Eight years and over 5 million gallons of traditional pump and treatment remediation had not reduced site contaminant concentrations to the state drinking water standards.

**Contaminant:** An industrial metal fabrication facility in southeast Massachusetts, groundwater contaminated with perchloroethylene (PCE), trichloroethane (TCE), and other industrial solvents.

**Recommended Treatment Method (in-situ):** Thirty-two (32) inoculation points were driven to the bedrock surface and set with 1/2 inch PVC well screen. The points were arranged in a grid pattern from upgradients of the known extent of contamination to the property boundaries. The microbial products were mixed with nutrients, biocatalyst, and injected into the points and the impacted monitoring wells.

**Goal:**

**Outcome:**

