



Case Study

Tetrachloroethene

Industrial Facility

Madison, Wisconsin

Site Overview

A site investigation at this location revealed elevated levels of tetrachloroethene (perc) in the subsurface soils to a depth of 10 feet. The cleanup criterion for this site was established as 1.0 mg/kg. Due to the number of subsurface utilities present at the site and the shallow nature of the contaminants, our patented Direct Injection Delivery System (DID System) was utilized to advance the probe rod into the subsurface by hand on a 3 foot injection matrix.

Project Specifications

- **Contaminant:** Tetrachloroethene
- **Contaminated Media:** Soil only
- **Treatment Area:** 3,240 square feet
Vertical Extent – 1'-10'
Total volume - 1,080 yd³
- **Soil Type:** Stiff Clay – traces of fine silty sand

Project Results

Prior to treating the site with BIOX[®], soil samples were collected and analyzed as a baseline. With the exception of sampling location GP-9 which required three treatment events, the site specific cleanup objective of 1 mg/kg was achieved with a single treatment event within two months. The following table shows the analytical results in mg/kg.

Tetrachloroethene (mg/kg)

Location	Baseline	2 Months	4 Months	12 Months	Reduction
GP-9	6,440	753	35	0.52	100%
GP-15	5.54	0.66	NA	NA	88%
GP-18	6.12	0.11	NA	NA	98%
GP-102	4.00	0.53	NA	NA	87%

The treatment area has been submitted to the State agency as no further action required.

The published paper for this site is available upon request.