

CASE HISTORY®

Work Summary (Site History)

CHS-0018 (Naphthalene, MTBE & BTEX)

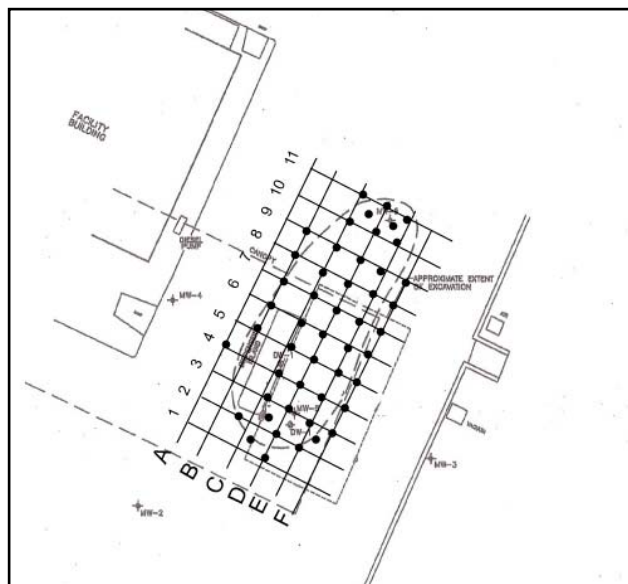
During a Phase II due diligence investigation, a gasoline discharge was discovered near a fuel dispenser island resulting in petroleum contaminated soil and groundwater. Initial remediation included source removal of 196.45 tons of contaminated soil by excavation. Due to residual contamination in soils and groundwater after the excavation process, the *Cool-Ox™* Process, a Technology based upon the controlled production of hydrogen peroxide in-situ, was selected to complete site remediation. This Technology had demonstrated its ability to eradicate mixed contaminants (hydrocarbons with halogens) and seemed ideal at this site. The post remedial monitoring revealed reductions in total BTEX, MTBE, and Naphthalene concentrations to below soil and groundwater cleanup levels..

Project at a Glance

Site 0018 - Site Information

Treatment Area

Type of site	First Coast Energy #1074
Location	Duval County, Florida
Contaminants	Naphthalene, MTBE & BTEX
Work Scope	Inject <i>Cool-Ox™</i> Reagent
Media Treated	Soil & Groundwater
Soil Type	Sand
Groundwater Depth	3-4 fbg
Remedial Objectives	1. Eliminate Soil Sources 2. GW and Soil Remediation



Site 0018 – Application Information

Technology Selected	<i>Cool-Ox™</i> Process
Application Method	DPT Probe Rig
Area Treated	1,000 square Feet
Vertical Interval	4 to 10 feet bgs
Injection Point (IP) Spacing	4 feet
Media Volume Treated	222 cubic yards
Number of Injection Points	49
<i>Cool-Ox™</i> Volume	1,240 gal
<i>Cool-Ox™</i> per IP	25 gal

Current Status

As expected, MTBE, BTEX and Naphthalene concentrations were reduced to non-detect. Because of the significant reductions in contaminant concentrations, the site was placed in Site Rehabilitation Completion Order Status.

CASE HISTORY

CHS-0018 Naphthalene, MTBE & BTEX (Cont.)

Results

Site 0018- Contaminated Data

Date	BTEX	TOTAL NAPH.	MTBE
	MW-5	MW-5	MW-5
Dec-06	39.22	216	71
Jun-07	6.32	5	76
Sep-07	3.22	2.8	66
Dec-07	>0.05	0.04	16
Mar-08	>1.00	>0.05	>2.00

