

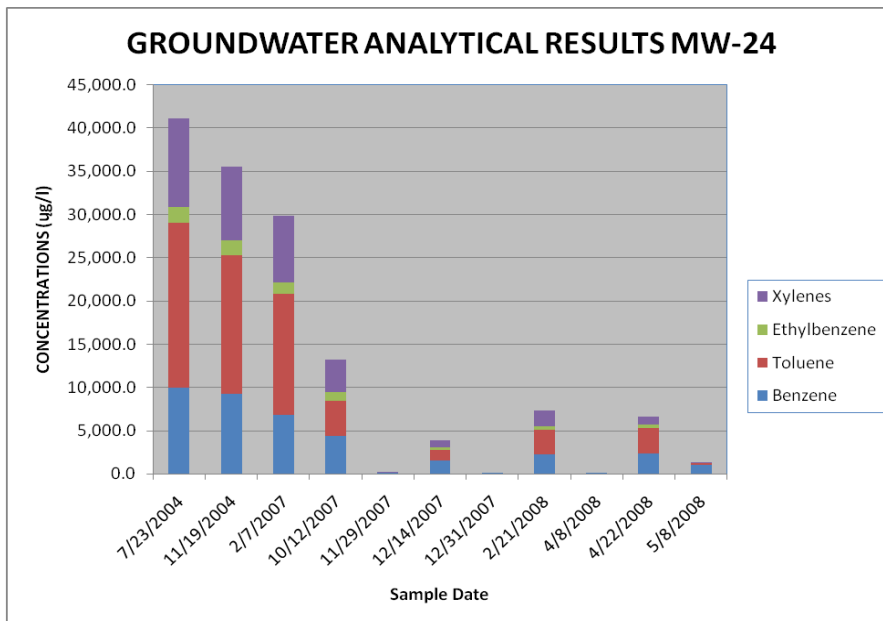
# Gas Station Release Fayette County, GA

This cleanup site was an active petroleum convenience store with a large gasoline release. The contaminant plume was approximately 360 feet by 60 feet with impacts on down-gradient properties. Previous pilot studies indicated multi-phase extraction (MPE), the selected technology, was unsuccessful.



The maximum dissolved-phase benzene concentrations of concern were 18,000 ppb. No free product was detected. Groundwater depth ranged from a few feet to 25 feet below ground surface (bgs). Site lithology was heterogeneous silty-sands and sandy-silts (Piedmont Saprolite).

The treatment goal was to reduce the dissolved benzene constituents to below 5,000 ppb to protect the down-gradient intermittent stream. An In-Situ Chemical Oxidation (ISCO) pilot injection/source area treatment was performed utilizing a mixture of sodium persulfate and hydrogen peroxide (H<sub>2</sub>O<sub>2</sub>) into 25 PVC injection wells. Based on the treatability study findings, Exo Tech performed one full-scale (185 injection wells) ISCO event plus a partial follow-up injection (100 injection wells) at the site.

Confirmatory sampling indicated a significant reduction in the dissolved-phase plume. "No Further Action" status is pending.



Exo Tech injection truck

LEGEND	
	PRE-INJECTION CONTOUR LINE
	POST-INJECTION CONTOUR LINE
(29,000)	PRE-INJECTION BENZENE RESULTS IN ug/L
(68)	POST-INJECTION BENZENE RESULTS IN ug/L



**SITE INFORMATION**

A petroleum release from an active gas station resulted in a plume that has migrated across three properties. Exotech injected twice reducing the plume from 1.8 acres to 0.2 acres

