

The above referenced site was an active maintenance facility formerly operating fuel storage underground storage tanks (USTs). The site was located in the Southern Piedmont with soils consisting of silty-sands and sandy-silts with bedrock at 7 feet. The depth to water was very shallow, at approximately 3 feet below ground surface.

Benzene concentrations of concern were highest at monitoring well MW-4 (9,900 ppb). The In-Situ Chemical Oxidation (ISCO) event consisted of injecting a total of 3,400 pounds of activated sodium persulfate (Klozur®) into a total of 20 PVC injection wells. Chelated iron was used as the activator for the sodium persulfate.

The target goals were to reduce the benzene contamination to 5,000 ppb or lower to protect the down-gradient stream. The nearby stream was approximately 40 feet from the dissolved phase boundary.

After the first injection event, over 85% of the mass concentrations of concern were degraded and all the wells were below the Georgia EPD's benzene target goal. A "No Further Action" designation is expected pending a short monitoring period.



ExoTech Injection Truck



ISCO Injection (Sodium Persulfate)

LEGEND

- PRE-INJECTION 5,000 ug/L CONTOUR LINE
- POST-INJECTION 5,000 ug/L CONTOUR LINE
- (6,400) PRE-INJECTION BENZENE RESULTS IN ug/L
- (150) POST-INJECTION BENZENE RESULTS IN ug/L



SITE INFORMATION

An active D.O.T. maintenance lot with a 3,300 square foot benzene plume was present due to a leaking under ground storage tank. After one injection performed by Exotech the plume was reduced to less than 150 square feet. No further action is pending.

