

HC-2000 Gasoline Bioremediation in Swamp

Location: South Georgia

Client: Transportation Company/Georgia DNR

Contract Amount: \$140,000

PROBLEM

A gasoline tanker rolled over in a swap area in Southern Georgia releasing an estimated 2,000 gallons. The gasoline plume migrated over an one-acre area on a tree farmer's property. Excavation was not an option due to unstable soils and an shallow groundwater table. The Georgia Department of Natural Resources had the transportation company contact Remtech Engineer's to employ its proprietary native bioremediation accelerator HC-2000.

SOLUTION

Three biofence reactors consisting of thirty (30) HC-2000 injection points and a sprinkling system were installed. HC2 was applied every two weeks followed by a one hour watering period. HC2 migrated through the contaminated swamp media via passive dispersion between injection points and intervals. Groundwater and soil samples were collected and analyzed for TPH (GRO) and BTEX.

This project was completed in eighteen (18) weeks. Average site soil Gasoline Recoverable Organic TPH concentrations were reduced 98.7% and average groundwater benzene concentrations reduced by over 84%. 5,520 cy of contaminated media were treated for an estimated \$25/cy.

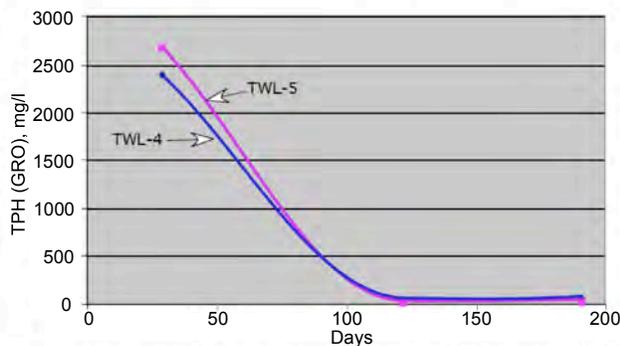
Remtech received a *no further action letter* from the Georgia Department of Natural Resources upon project completion. No damage to site vegetation was observed.



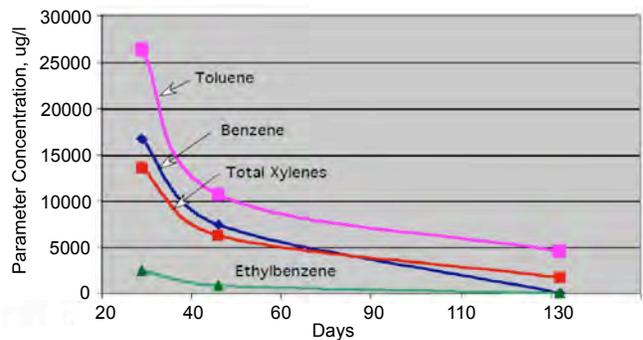
First Bio-Fence



Second Bio-Fence

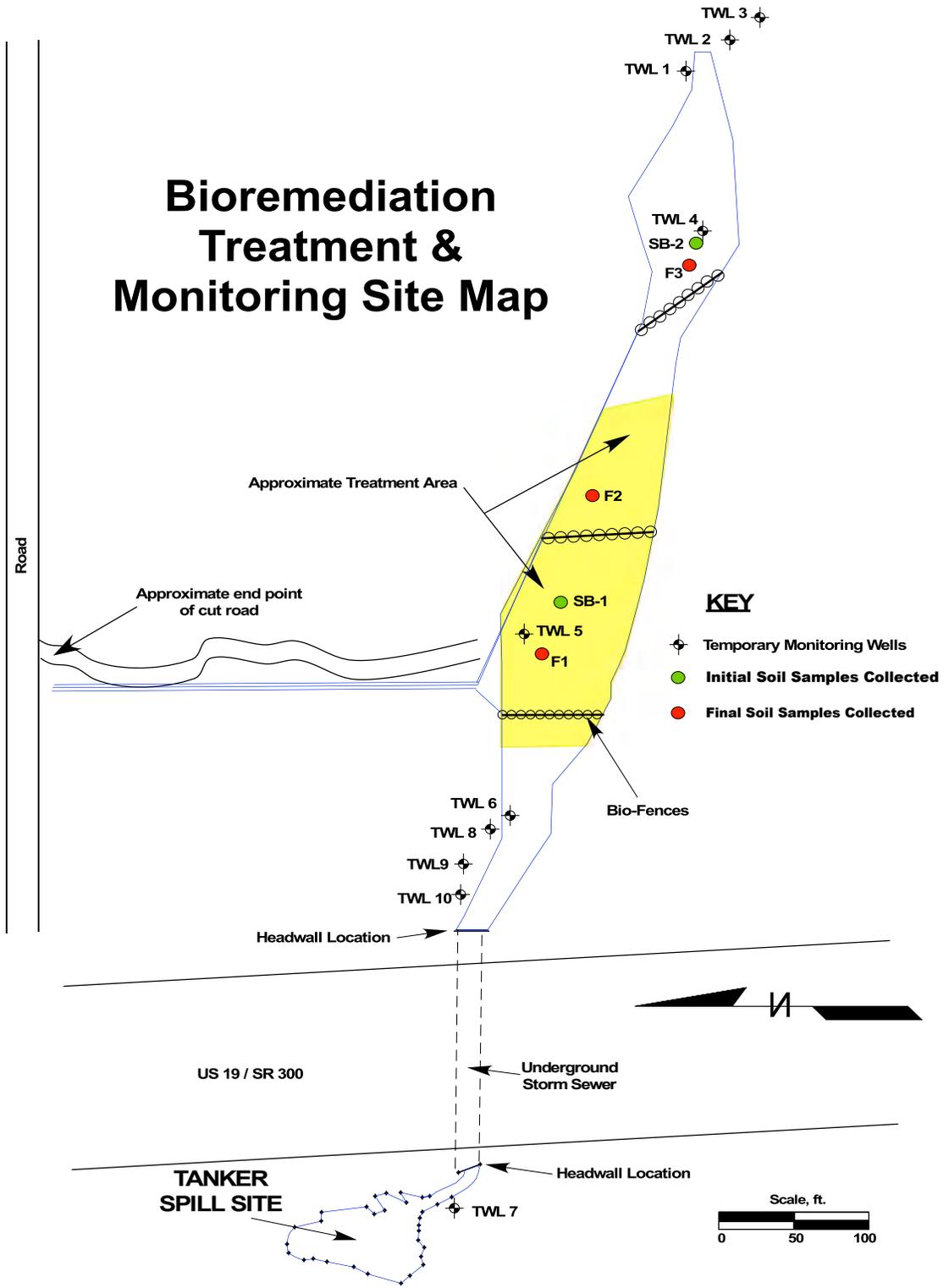


Groundwater Gasoline Recoverable Organics Degradation Curves @ TWL-4 & 5



Groundwater BTEX Degradation Curves at TLW-5

Bioremediation Treatment & Monitoring Site Map



KEY

- ⊕ Temporary Monitoring Wells
- Initial Soil Samples Collected
- Final Soil Samples Collected