UST Gasoline HC-2000 BioSparge Remediation
Location: Chicago, Illinois
Client: Freight Distribution Center
Contract Amount: $20,000

BioSparge Injection System at Freight Terminal

PROBLEM

An underground storage tank pit was contaminated with dissolved gasoline analytes following removal and backfill of a 10,000 gal UST that prevented closure of the site.

SOLUTION

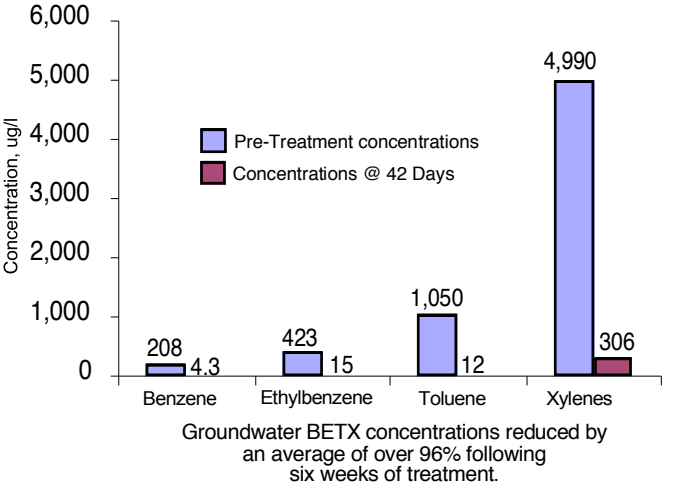
Sixteen (16) biosparge points were driven into groundwater through a pea gravel/colloidal clay matrix. Remtech's native bioremediation accelerator HC-2000 was injected on a weekly basis topically and through the sparge tips. A compact air and HC-2000 injection system was used to pulse air and enzyme into the tank pit.


BioSparge Injection Grid

At the end of a six (6) week treatment period, hetero-trophic plate counts jumped to several million CFU/ml. Groundwater BETX analytes were reduced - 98% for benzene, 96% for ethylbenzene, 99% for toluene, and 94% for total xylenes.

COST/BENEFITS

The tank pit was closed that prevented additional treatment and minimized additional facility operational interuptions.



Groundwater BETX concentrations reduced by an average of over 96% following six weeks of treatment.


BioSparge Lances were Driven with Electric Jackhammer

Remtech Engineers™
Remediation Specialists
200 North Cobb Parkway
Suite 208
Marietta, Georgia 30068
phone: 770-427-7766
fax: 770-427-7001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