

Case Study – BOS 200®

Site: Compressor Station

Contaminant: Condensate (benzene)
(LNAPL/free product present)

Soil Type: Silty Clays

Initial Design Objective: Reduce plume size by about 66% and concentrations in hot zone to 20 to 25 ppm

Injection Cost: \$76,000 (material & labor)

Plume Area (before): approximately 12,000 sq. ft.
(3200 sq. ft. inside building)

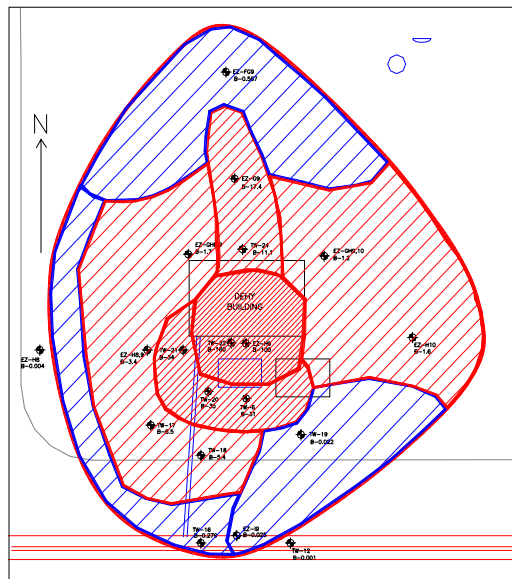
Thickness (2 depths): Shallow - 10 to 20 feet bgs, and
Deep - 24 to 34 feet bgs

Plume Area (after): ~1250 sq. ft. – 90% reduction
(10 months after treatment)

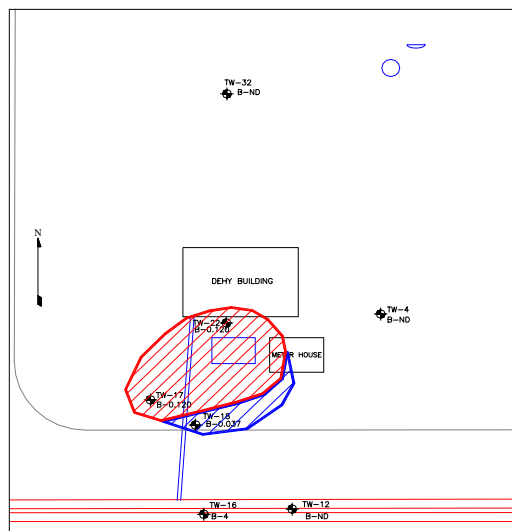
Groundwater: varies from 14 to 16 feet bgs



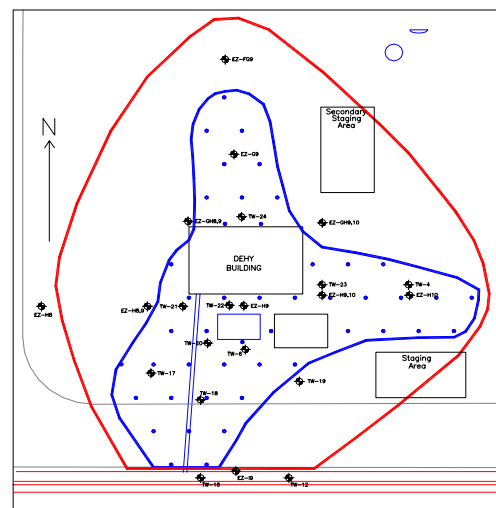
Site photo



Plume Before Treatment



Plume After Treatment



Injection Locations

Benzene Data for Project*		
Locations	Data Before	Data After
TW-4	0.003	ND (0.001)
TW-6	2.9	Removed
TW-12	0.002	ND (0.001)
TW-16	0.279	0.004 (0.001)
TW-17	8.5	0.120
TW-18	5.4	0.037 (Destroyed)
TW-19	0.022	ND (0.001)
TW-20	35	Removed
TW-21	34	Removed
TW-22	156	0.120
TW-24	11.1	Removed
TW-27	NA	ND (0.001)
TW-32	NA	ND (0.001)
TW-33	NA	ND (0.001)

*All numbers shown are in ppm.