

Large Tank Farm Site

PAULSBORO, NJ



Site

100 acre former petroleum and chemical storage terminal

COC's

Primary: Chlorobenzene
Benzene
1,2 Dichloroethane
PCE
TCE

Design Challenges

- dNAPL concentrations of chlorobenzene >400,000 ug/L
- Thick saturated source zone (60-80 ft)
- Back-diffusion from basal clay layer

Full Scale System

- 200 lb per day production
- Ozone generators fed by oxygen concentrators
- 520 scfm of sparge air
- 104 nested sparge locations
- 416 sparge points
- 50 ft radius of influence

Performance

(After 12 months of ozone sparging)

- Mass collected in SVE
VOC ~40,628 lbs (>20 tons)
TPH ~89,960 lbs (~45 tons)
Chlorobenzene 30,110 lbs (~82 lbs/day)
- Ozone injected ~23,000 lbs
- Mass discharge out of source zone decreased 70%



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