State Coalition for Remediation of Drycleaners

Site Profiles - View

Admin

General Information

Site Name and Location:	Parisian Cleaners Orlando, Florida, United States
Description: Historical activity that resulted in contamination.	Active drycleaning facility since 1954. Commercial property. Used petroleum-operated drycleaning machine. No information regarding historic waste generation, management practices, or haulers before 1994.

Contaminants:

Contaminants: Contaminants present and the highest amount detected in both soil and groundwater (please avoid giving ranges).

Contaminant	Conc in GW	Conc. in Soil
1,2,4-trimethylbenzene	365 µg/L	410 µg/kg
1,3,5-trimethylbenzene	120 µg/L	
naphthalene		570 µg/kg
Tetrachloroethene (PCE)	320 µg/L	130 µg/kg
Trichloroethene (TCE)	4.4 µg/L	
xylenes		188 µg/kg

Other Contaminants Present: Indicates what other contaminants were found on-site	The concentrations shown for groundwater contaminants represent direct push data.
Deepest Significant Groundwater Contamination:	5.2 PCE @ 68 ft
Plume Size:	<0.3 acre

Site Hydrology:

Depth to Groundwater:	12.5 ft bgs

Lithology and Subsurface Geology:	Tan to white, very fine-grained sands to 34 ft; Inter-bedded layers of gray to dark gray silts and clays, 34-62 ft.
Conductivity:	
Gradient:	.003ft/ft to .004 ft/ft

Media:

Media:	Groundwater Soil

Remediation Scenario:

Cleanup Goals:	PCE--GW = 3 µg/L; Soil = .03 mg/kg(leachability); TCE--GW = 3 µg/L; Soil = .03 mg/kg(leachability); Napthalene--GW = 20 µg/L; Soil = 1.7mg/kg (leachability); 1,2,4 TMB--GW = 10 µg/L; Soil = .3mg/kg (leachability); 1,3,5 TMB--GW = 10 µg/L; Soil = .3mg/kg (leachability)

Technologies:

Technologies Used:	In Situ: Soil Vapor Extraction
Other technologies used:	
Why the technology was selected:	Significant PCE soil contamination amendable to SVE technology.
Date implemented:	Start-up began-July 9, 2002 Construction begain in February 2002
Final remediation design:	Two vertical SVE wells. One was placed inside building; the other well placed next to building.

Results and Next Steps:

Results to date:	No Futher Action (NFA) for both soils and groundwater. Site Rehabilitation Completion Order(SRCO)issued on 4/27/04.
Next Steps:	

Costs:

Cost for Assessment:	$92,120.30
Cost to Design and Implement:	$72,458
Cost for Operation and Maintenance:	$29,264 = O&M $8,689 = Monitoring
Total Costs for Cleanup:	$202,531

Lessons Learned:

Lessons Learned:	1. Good soil sampling under the building providing good design of SVE system.

Contacts:

Principal Point of Contact:	Judie A. Kean, Project Manager Florida Department of Environmental Protection 850-245-8973 judie.kean@dep.state.fl.us

Site Specific References:

Site Specific References:	

Images:

Images of Site:	

http://www.drycleancoalition.org/profiles/display.cfm?id=102
Profile last updated on Apr 28, 2004