

CASE STUDY: Geo-Seal® is the First Vapor Intrusion Barrier Approved by FL DEP's Drycleaning Solvent Cleanup Program for Effective Vapor Intrusion Mitigation

CVS Pharmacy/Concord Cleaners – Tallahassee, FL

To accommodate a planned expansion, CVS acquired an adjoining vacant building (approximately 3000 ft²) which formerly operated as a commercial dry cleaning facility. Site investigations revealed chlorinated solvent contamination in groundwater beneath the building, including tetrachloroethene (PCE) and trichloroethene (TCE). The site was entered into the Florida Department of Environmental Protection's (FDEP) Drycleaning Solvent Cleanup Program (DSCP). In order to prevent chlorinated contaminant vapor intrusion, Golder Associates designed a mitigation system using the Geo-Seal® Vapor Intrusion Barrier. A soil vapor extraction system and monitoring wells were also installed to effectively treat the subsurface contamination.

This was the first installation approved by the Florida Department of Environmental Protection (FDEP) under the Florida Drycleaner Solvent Cleanup Program (DSCP). The Florida Legislature created the Drycleaning Solvent Cleanup Program in 1994 to provide a source of funding for rehabilitating sites and drinking water supplies contaminated by drycleaning solvents. This was the first such program in the nation.

Project Highlights:

- First vapor barrier approved by the FDEP under the DSCP program
- Installation of 3,000 ft²
- Enhanced chemical resistance over spray-applied asphalt/latex material



Vertical Termination
Preparation



Laying out Geo-Seal BASE
Layer

About the Geo-Seal® Gas Vapor Barrier

Geo-Seal is the ideal blend of chemically resistant HDPE sheet and spray applied membrane technologies, resulting, in the most appropriate gas vapor barrier technology used to eliminate vapor intrusion on Brownfields or environmentally impaired sites. Geo-Seal is a chemically resistant material placed between the subgrade and building foundation to seal off exposure pathways and stop vapor intrusion into buildings. By selecting Geo-Seal, developers can ensure a healthy indoor environment while reducing the cost of site remediation and expediting site construction.