

# CASE STUDY

## REMEDIATION TECHNOLOGIES



**PROJECT:** Sienna Place Homes  
**LOCATION:** Philadelphia, PA  
**SQUARE FT:** 190,000  
**APPLICATOR:** CETCO Contracting Services  
**ENGINEER:** Tetra Tech, Inc. and Pennoni Associates  
**PRODUCTS:** LIQUI D BOOT®  
LIQUI D BOOT® BaseFabric T-60  
LIQUI D BOOT® UltraShield G-1000

### VAPOR MITIGATION CHALLENGES:

A prominent residential developer chose an idle brownfield in Philadelphia, PA for the location of a large town-home development. To mitigate potential vapor intrusion concerns, Pennoni Associates and the general contractor selected the LIQUID BOOT® gas vapor barrier system as a part of their overall remedial design.

### THE SOLUTION:

Originally specified as with a 40-mil HDPE geomembrane, CETCO Contracting Services was able to provide a more viable alternative in CETCO's Liquid Boot system, installing the membrane quicker and for less money than a traditional geomembrane. CETCO Contracting installed the Liquid Boot system, which included T-60 base fabric, the Liquid Boot spray applied barrier and capped the system with G-1000 protection course, all to the underslab of each pad on the housing project. After installation, CETCO Contracting performed rigorous QA/QC procedures, including mil thickness testing and a smoke test, ensuring the membrane was entirely vapor tight. Using CETCO Contracting Services as the LIQUID BOOT® applicator, CETCO was able to provide a complete site solution, solving any potential gas vapor intrusion issues.

### OTHER JOBSITE IMAGES:



Liquid Boot® BaseFabric provides a uniform substrate for which the Liquid Boot® gas vapor membrane is then sprayed.



The spray-application allows for ease of installation and labor savings while providing a gas-tight and seamless barrier.



The installed spray-applied gas vapor membrane attaching to the columns and vertical walls themselves and sealing all penetrations.

CETCO provides a complete range of vapor mitigation and remediation products for soil, water, and sediment.



Remediation Technologies

1001 S. Linwood Avenue • Santa Ana, CA 92705 USA • Ph: 714.384.0111 • [www.cetco.com](http://www.cetco.com)