Prominant developer chooses CETCO vapor barrier for methane protection

A prominant residential developer had selected an idle Brownfield for the site of a large multi-family residential development.

**PROJECT DETAILS**

Sienna Place Homes  
Design Engineer: Tetra Tech, Inc. and Pennoni Associates  
Certified Installer: InterGeo Solutions, LLC  

**LOCATION**  
Philadelphia, Pennsylvania, USA  

**PRODUCTS USED**  
LIQUID BOOT® Spray-Applied Vapor Barrier  

**CHALLENGE:**  
To mitigate potential methane vapor intrusion concerns, Pennoni Associates and the general contractor selected the LIQUID BOOT® vapor barrier as a part of their overall remedial design and to protect 190,000 square feet of indoor space.

**SOLUTION:**  
Originally specified as with a 40-mil HDPE geomembrane, InterGeo Solutions was able to provide a more viable alternative with CETCO’s LIQUID BOOT® vapor barrier, installing the membrane quicker and for less money than a traditional geomembrane. InterGeo Solutions installed LIQUID BOOT® vapor barrier, which also included BaseFabric™ T-60 base layer fabric and UltraShield™ G-1000 protection course material, all to the underslab of each pad on the housing project. After installation, InterGeo Solutions performed rigorous QA/QC procedures, including mil thickness testing and the CETCO-pioneered Smoke Test, ensuring the membrane was entirely vapor tight. Using a CETCO-trained and certified LIQUID BOOT® applicator, CETCO was able to provide a complete site solution, solving any potential gas vapor intrusion issues.

**RESULT:**  
Installation of the LIQUID BOOT® vapor barrier was extremely successful and was able to be installed much quicker than any of the competing products due to it’s benefit of a spray-application and rapid curing time.