

# Spray-applied gas vapor barrier solution for housing development on former landfill site

The Fraternity Meadows development is a specialized community project situated on a former landfill with detectable levels of methane gas in the soil. This project is home to a new multi-family housing structure referred to as Building D.



## PROJECT DETAILS

Fraternity Meadows – Building D

Engineer: Cornerstone  
Environmental Group, LLC

General Contractor:  
Fraternity Meadows, LLC

Certified Installer: EAI, Inc.

## LOCATION

Secaucus, New Jersey

## PRODUCTS USED

LIQUID BOOT® 500  
Gas Vapor Mitigation System  
Geovent™ Gas Venting System

The spray-applied application of the LIQUID BOOT® gas vapor barrier ensured the project be completed quickly, and with the application of CETCO's leading quality assurance and control procedures such as smoke testing, CETCO was able to provide a membrane that was ensured vapor tight even with the number of penetrations and foundation complexities.

### CHALLENGE:

The project was further complicated by numerous penetrations which must be effectively sealed to protect indoor air quality.

### SOLUTION:

CETCO, the engineer and the approved LIQUID BOOT® installer, worked directly with the general contractor to ensure that correct design and installation would allow the project to come in under budget and within the construction schedule. CETCO solutions were chosen based on reputation, design assistance and capability of accommodating a tough construction schedule. CETCO was instrumental in helping the engineer complete the proper ventilation and membrane design. The gas vapor mitigation consisted of installation of GEOVENT™ sub-slab ventilation and 117,000 square feet of the LIQUID BOOT® gas vapor mitigation system.

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**RESULT:**

Installation of the LIQUID BOOT® gas vapor mitigation system was extremely successful and was able to be installed much quicker than any of the competing products due to its benefit of a spray-application and rapid curing time. CETCO products installed by CETCO trained and certified installers provided the building with proven protection against vapor intrusion while also saving the customer time and money.

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UPDATED: SEPTEMBER 2017

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