



HIDDEN LANE LANDFILL SUPERFUND SITE COMMUNITY UPDATE



Sterling, VA

<http://go.usa.gov/3hRQC>

November 2015

INDOOR AIR TESTS COMPLETED

This past spring, EPA completed indoor vapor intrusion (VI) testing at 18 properties near the Hidden Lane Landfill Site. The purpose of the testing was to determine if vapors from the contaminated groundwater plume were getting inside homes.

The results of the tests showed that **no vapors** from the groundwater are entering the homes at this time. Additional testing may be needed in the future to ensure that indoor air continues to be protective of human health.

GROUNDWATER TREATMENT TEST UNDERWAY

In mid-August 2015, EPA began to test a treatment method designed to clean up the trichloroethene (TCE) contamination in the groundwater. This test is part of the ongoing Treatability Study at the Hidden Lane Landfill Site.

EPA injected a nutrient mixture into one of the monitoring wells at the Site to 'feed' naturally-occurring microbes in the groundwater, several of which feed on TCE itself. EPA also augmented these naturally occurring microbes with additional ones (Dehalococcoides) to insure there would be enough of these microbes to test this method.

The microbes ingest and break-down TCE into simpler byproducts to obtain energy, much like we digest food. This process, called bioremediation, can reduce and eliminate TCE from the groundwater over time and has been used successfully at other Superfund sites.

The injections only took about a week to complete but sampling will continue through the first half of 2016 to determine whether this approach can be successful at the Hidden Lane Landfill Site. EPA plans to update the community on the Treatability Study in November - see page 2.

BRIEF SITE HISTORY

1971: The Hidden Lane Landfill is a 25-acre privately owned and operated disposal facility that began accepting solid wastes, including construction and demolition wastes. The facility closed in the mid-1980s.

1989: TCE was first detected in private drinking water wells at some homes west of the Hidden Lane Landfill.

2005: The Loudoun County Department of Health collected 67 samples from private wells in Broad Run Farms. The results showed that 22 homes had TCE in their private wells. The Virginia Department of Environmental Quality installed carbon filtration units in the homes to remove the TCE before it reached the plumbing.

2008: EPA added the Hidden Lane Landfill to the National Priorities List (NPL), making it eligible for federal cleanup under the Superfund program.

2009: EPA began a groundwater investigation to determine the source and extent of TCE contamination. During the investigation, EPA installed 19 monitoring wells.

2010-2011: Test results from the monitoring wells indicated that EPA needed more information and an additional nine monitoring wells were installed, deeper into the groundwater, to better characterize the TCE contamination.

2012: Test results from the deeper monitoring wells show the location, depth and movement of the TCE plume and confirmed that it moves generally north from the landfill in the direction of the Potomac River.

2014: EPA designed and implemented a groundwater treatability study to test at one monitoring well.

PUBLIC MEETING IN NOVEMBER

EPA will hold a public meeting to update the community on the recent groundwater treatment testing, the Feasibility Study and what's next at the Hidden Lane Landfill Site.

The meeting will be held on Tuesday, November 17, 2015 at 7:00 pm at the
Galilee United Methodist Church
45425 Winding Rd, Sterling, VA 20165

(703) 430-2203

For more information about the Hidden Lane Landfill please visit our website <http://go.usa.gov/3hROC>

Contact Us

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