

MARYLAND DEPARTMENT OF THE ENVIRONMENT

Land Management Administration • Oil Control Program

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Drinking Water Well Impact Stansbury Mill Road Groundwater Investigation 3712 Stansbury Mill Road, Phoenix, Maryland *Case No. 2009-0677-BA (Open)*

The Maryland Department of the Environment (MDE), Oil Control Program (OCP) opened *Case No. 2009-0677-BA* on May 4, 2009 in response to the receipt of private well sampling analytical results for 3712 Stansbury Mill Road, which detected methyl tertiary-butyl ether (MTBE) at 14 parts per billion (ppb). MTBE was a fuel additive commonly used to reduce carbon monoxide and ozone levels caused by auto emissions. There is no national regulatory standard for MTBE in drinking water. In 1997, the U.S. Environmental Protection Agency (EPA) issued an advisory for MTBE of 20 to 40 ppb, based on taste and odor. Although the EPA has not established a regulated maximum contaminant level (MCL) for MTBE, the MDE has adopted an action level of 20 ppb.

In May 2009, a confirmatory drinking water sample collected by the MDE-OCP from the 3712 Stansbury Mill Road residence detected MTBE at 10.3 ppb. Based on this detection, MDE expanded sampling to include six properties surrounding the impacted residence. On July 9, 2009, the MDE-OCP collected domestic well samples from 3708, 3710, 3712, 3714, 3720, and 3736 Stansbury Mill Road; MTBE was detected at 22 ppb at the 3712 Stansbury Mill Road residence and at 14 ppb at the 3708 Stansbury Mill Road residence. Since the MTBE detection of 22 ppb exceeded the State's action level, MDE financed the installation of a granular activated carbon (GAC) filtration system on August 3, 2009. During the most recent sampling event conducted at 3712 Stansbury Mill Road on February 1, 2010, MTBE was detected at 5.0 ppb pre-GAC filtration, and was non-detect post filtration. A second radius sampling was conducted in October 2009, which included six additional residences in the vicinity of Stansbury Mill Road (*see table below for all domestic well sampling results*).

MDE-OCP will continue to monitor groundwater conditions in the vicinity of Stansbury Mill Road. Based on the data collected to date, MDE-OCP does not consider the gasoline release at the former Exxon Jacksonville station, located at 14258 Jarrettsville Pike (open case number *2006-0303-BA2*) to be the source of contamination detected in the vicinity of Stansbury Mill Road. MDE will continue to investigate potential sources of this contamination.

Related Cases:

In February 2010, MDE's Controlled Hazardous Substance (CHS) Enforcement Division coordinated an investigation with OCP, after receiving reports of detections of MTBE and carbon tetrachloride in potable wells in the vicinity of Manor Road and Turnberry Court. The MCL for carbon tetrachloride in potable wells is 5 ppb. The MDE-CHS Enforcement Division

financed the installation of GAC filtration systems at the affected homes and is continuing to monitor additional wells in the area. For additional information concerning this investigation, please refer to the following Fact Sheet link:

<http://www.mde.state.md.us/assets/document/Manor%20Road%20factsheet.pdf>

**Drinking Water Sample Results in the Vicinity of Stansbury Mill Road in
Phoenix, Baltimore County, Maryland**

Address	Sample Date	MTBE <i>Action level – 20 ppb</i>	Other constituents
Private Drinking Water Wells			
3712 Stansbury Mill Road <i>GAC installed by MDE on 09/03/2009</i>	04/16/2009	14	ND
	05/06/2009	10.3	Bromoform 0.55 ppb
	07/09/2009	22.0	ND
	10/05/2009	10.0 (pre filter)	ND
	10/05/2009	ND (post filter)	ND
	11/30/2009	11.0 (pre filter)	ND
	11/30/2009	ND (post filter)	ND
	02/01/2010	5.0 (pre filter)	ND
3708 Stansbury Mill Road	02/01/2010	ND (post filter)	ND
	07/09/2009	14.0	ND
3710 Stansbury Mill Road	10/07/2009	8.4	Toluene-57 ppb; chloroform 5.1 ppb
	07/09/2009	ND	Chloroform 0.6 ppb
3714 Stansbury Mill Road	11/30/2009	ND	ND
	07/09/2009	ND	ND
3717 Stansbury Mill Road	11/30/2009	ND	ND
3720 Stansbury Mill Road	10/05/2009	ND	ND
3736 Stansbury Mill Road	07/09/2009	ND	ND
3701 Stansbury Mill Road	10/05/2009	ND	Chloroform 0.7 ppb
3704 Stansbury Mill Road	10/05/2009	ND	ND
3705 Stansbury Mill Road	10/05/2009	ND	ND
14818 Manor Road	10/07/2009	0.7	ND
14831 Jarrettsville Pike	10/07/2009	ND	ND

**Drinking Water Sample Results Collected by MDE's CHS Enforcement Division
in the vicinity of Manor Road**

Address	Sample Date	MTBE <i>Action level – 20 ppb</i>	Carbon tetrachloride <i>MCL 5 ppb</i>
Private Drinking Water Wells			
1 Turnberry Court	02/08/2010	ND	ND
14810 Manor Road	01/04/2010	1.3	6.7
14812 Manor Road	01/15/2010	ND	7.5
14904 Manor Road	02/08/2010	7.0	ND
2 Turnberry Court	02/08/2010	ND	1.7