

**MARYLAND DEPARTMENT OF THE ENVIRONMENT**  
**1800 Washington Boulevard • Baltimore, Maryland 21230-1719**  
**410-537-3442 • 800-633-6101 x 3442 • <http://www.mde.state.md.us>**

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**Land Management Administration – Oil Control Program**

**Drinking Water Well Impact**  
**Fallston Presbyterian Church/Fallston Pre-Kindergarten**  
**600 Fallston Road, Fallston,**  
**Harford County, Maryland**  
**MDE Case No. 2005-0156-HA**

The Maryland Department of the Environment (MDE) case related to the methyl tertiary-butyl ether (MTBE) contamination of the water supply well located on the Fallston Presbyterian Church property, which also houses the Fallston Pre-Kindergarten (Pre-K) at 600 Fallston Road in Harford County, remains open. The Department's Water Supply Program (WSP) and Oil Control Program (OCP) have coordinated the investigation in conjunction with the Harford County Health Department (HCHD).

MTBE is 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 based on taste and odor of 20 to 40 parts per billion (ppb). Although the EPA has not established a regulated Maximum Contaminant Level (MCL) for MTBE, the MDE has adopted an action level of 20 ppb.

**Site Chronology**

- Routine sampling of the Pre-K supply well conducted by HCHD.
  - 1990. MTBE non-detect.
  - 1995. MTBE non-detect.
  - 1996. MTBE non-detect.
  - 1997. MTBE non-detect.
  - 1999. MTBE non-detect.
- Subsequent sampling conducted by MDE-WSP.
  - March 25, 2002. MTBE 8.2 ppb
  - May 8, 2002. MTBE 12.5 ppb.
- May 9, 2002. MDE-WSP contacted the Pre-K to notify them of the detection of MTBE in the drinking water and to determine possible sources of contamination. Because MTBE was below the action level and the facility was using bottled water, no specific recommendations were provided.
- May 23, 2002. MDE-WSP issued a memo to MDE-OCP with a copy to the HCHD regarding MTBE at the Pre-K.
- March 10, 2003. MDE-WSP sample found MTBE at 229 ppb. Tertiary amyl methyl ether (TAME), an unregulated compound, was detected at 8.62 ppb.
- February 10, 2004. MDE-WSP sample found MTBE at 192 ppb; TAME at 6.91 ppb.
- March 10, 2004. MDE-WSP contacted the Pre-K to verify if the facility was still using bottled water for drinking and to notify them of MTBE results of sampling conducted in February 2004.
- March 17, 2004. MTBE at 124 ppb; TAME at 4.2 ppb.
- March 23, 2004. MTBE at 171 ppb; TAME at 6.24 ppb.

- April 2, 2004. A citizen complaint was forwarded to MDE-OCP. The complainant noted that for the past three weeks faucets in the sink at the Fallston Pre-K were shut-off and that antibacterial gel was being supplied at sinks. However, valves remained open in lavatories for purposes of flushing.
- April 6, 2004. Letter from the Church was sent to the Pre-K families and members of the church regarding sampling results of the supply well.
- April 7, 2004. MDE-WSP received a citizen complaint noting that the faucets were turned off and requested hand washing stations and a letter from the Pre-K regarding MTBE detection. WSP staff contacted the Pre-K staff and was informed that a letter was being sent to parents.
- April 8, 2004. MDE-OCP received another citizen complaint that Fallston Pre-K was on bottled water and that the faucets in the sinks were shut-off and liquid sanitizing gel was being provided. Water only being utilized to flush the toilet.
- April 9, 2004. MDE-WSP sent letter notifying the Pre-K of MTBE levels above the Department's action level of 20 ppb and acknowledged that bottled water was continuing to be supplied to the school on a voluntary basis for several years.
- April 19, 2004. Fallston Pre-K installed a carbon filtration system for the removal of MTBE and any other petroleum constituents.
- April 28, 2004. MDE-WSP visit to the Pre-K. Installation of the water treatment system confirmed.
- May 10, 2004. MTBE and TAME non-detect in water samples collected after carbon filtration treatment.
- May 14, 2004. Meeting between MDE-OCP and HCHD concerning MTBE levels in the Pre-K supply well and adjacent property (i.e. Fallston Service Station).
- On June 28, 2004, the MDE-OCP received written notification from the contractor on behalf of the Church that two granular activated carbon (GAC) treatment tanks were installed earlier at the Pre-K.
- July 6, 2004. MTBE and TAME were non-detect in water samples collected after carbon filtration treatment.
- July 26, 2004. MDE-OCP collected samples before (pre-), between (mid-), and after (post-) the water circulated through two GAC treatment tanks.
  - Pre-treatment sample MTBE estimated at 87 ppb
  - Mid-Treatment sample MTBE detected at 7 ppb\*
  - Post treatment sample MTBE non-detect
- August 4, 2004. MDE-OCP verbally notified the Church's contractor of breakthrough (\*) in the carbon treatment system and recommended replacement of the carbon filters. The Department was also informed that a 1,000-gallon heating oil underground storage tank (UST) located on-site would be properly abandoned during the weeks of August 16 – 27, 2004.
- August 10, 2004. MDE-OCP received signed site access agreement from the Church to sample the on-site non-community supply well. The Department also received written confirmation that the Church's contractor was the official point of contact for the improperly abandoned UST and the carbon treatment system on the non-community supply well. A telephone conversation with the Church's contractor confirmed that the carbon tank would be changed out on August 11, 2004.
- Week of August 9, 2004. Pre-K school staff informed the MDE-WSP that the carbon filters were replaced.

- August 16, 2004. MDE-OCP received *Summary Report-August 12, 2004* prepared by the Church's contractor concerning activities completed to date, the status of the project, rationales for the delay in completing the tasks requested by the Department, and clarification on the directives issued by the MDE.
- August 17, 2004. MDE-OCP begins monthly sampling of the water supply well to monitor the performance of the carbon treatment system.
  - MDE-OCP collected samples to verify that the change-out of the carbon tank was effectively working.
  - Water samples collected by the Department will be analyzed for full suite volatile organic compounds (VOCs) using EPA Method 524.2, a very sensitive laboratory method capable of detecting petroleum constituents at very low concentrations.
- August 25, 2004. MDE-OCP letter to the Fallston Church/Pre-K provided an update on the status of the investigation:
  - Monthly sampling of the non-community water supply system to be conducted by the Department;
  - The Church/Pre-K will be responsible for the operation and maintenance of the carbon treatment system;
  - The 1,000-gallon heating oil UST must be properly abandoned; and
  - A geoprobe investigation is required.
- September 7, 2004. MDE-OCP issued Notice of Violation (NV 2005-020) to the Church regarding an improperly abandoned 1,000-gallon UST that had not yet been removed as of August 27, 2004.
  - In accordance with Maryland regulations a UST out of service for more than 180 days must be permanently closed by removal under the oversight of a Maryland-certified UST remover or technician. If removal was not possible due to structural limitations, pre-approval would be required by MDE-OCP to properly clean and abandon the tank in place. The Department required this task be completed by September 30, 2004.
  - A geoprobe investigation must also be completed on-site.
- September 13, 2004. MDE-OCP collected samples to verify that the carbon treatment system is effectively working. Email from the Church's contractor regarding communications on MDE's directives.
- September 16, 2004. Fax from the Church's contractor regarding the operation and maintenance of the carbon treatment system on the non-community supply well servicing the Fallston Pre-K.
- September 22, 2004. MDE-OCP letter to the Church/Pre-K concerning previous groundwater sampling results collected by the Department. No petroleum constituents were detected in post-treatment samples.
  - August 17, 2004
    - Pre-treatment sample           not collected
    - Mid-Treatment sample        MTBE non-detect
    - Post treatment sample        MTBE non-detect
  - September 13, 2004.
    - Pre-treatment sample        MTBE at 49 ppb; tertiary butyl alcohol (TBA) at 19 ppb
    - Mid-Treatment sample        MTBE non-detect
    - Post treatment sample        MTBE non-detect
- September 27, 2004. Letter from the Fallston Pre-K requesting copies of the 08/16/04 (actually collected on 08/17/04) groundwater sampling results from the non-community supply well which were collected by the MDE-OCP.
- October 7, 2004. MDE-OCP visited the site to observe proper abandonment of the 1,000-gallon bare steel UST. Tank was cleaned and abandoned-in-place due to structural limitations. Water was observed entering the UST through a perforation near the base of the tank after the tank was cleaned. MDE-OCP required the copper lines to be sealed.

- October 8, 2004. Letter from MDE-WSP to the Church's contractor responding to his August 12, 2004 letter requesting clarification on the operation of the carbon treatment system for the Fallston Pre-K /Church.
- October 13, 2004. MDE-OCP on-site to observe the installation of three borings by Nutshell Enterprises (Church's environmental consultant). Geoprobe hit refusal at depths of 7 to 8 feet due to shallow bedrock. In an interview, the Department learned of a second drinking water well on-site.
- October 11, 2004. Fax from concerned parents of the Fallston Pre-K to MDE's Secretary concerning the status of the investigation.
- October 18, 2004. MDE-OCP collected groundwater samples from the non-community supply well.
- November 3, 2004. Church's contractor responds to MDE-WSP letter dated 10/8/04.
- November 12, 2004. MDE-OCP received *Summary Report-November 5, 2004* from the Church's contractor requesting an extension for drilling monitoring wells due to limited funds. Report suggested that MTBE levels have decreased in the water supply well since the UST was properly abandoned-in-place.
- November 15, 2004. MDE-OCP received *Subsurface Work Plan - October 27, 2004* prepared by Nutshell Enterprises. The *Work Plan* proposed the following:
  - Installation of two 4-inch monitoring wells; and
  - Sample all three wells on-site including the non-community supply well for full suite VOCs.
- November 16, 2004. MDE-OCP notified Church/Pre-K of groundwater sampling results collected from the non-community supply well.
  - October 18, 2004 sample results.
    - Pre-treatment sample           MTBE at 79 ppb; TBA at 43 ppb
    - \*Mid-Treatment sample       MTBE at 1.1 ppb\* (breakthrough)
    - Post treatment sample        MTBE non-detect
- November 17, 2004. MDE-OCP collected groundwater samples from the non-community water supply well at the Fallston Pre-K.
- November 18, 2004. MDE-OCP approved the *Work Plan-October 27, 2004* contingent upon the following modifications:
  - Installation of the two 4-inch monitoring wells at specific locations;
  - Groundwater samples from monitoring wells must be sampled for VOCs and TPH/DRO and TPH/GRO;
  - Sample the second drinking water well for full suite VOCs using EPA Method 524.2; and
  - To assist with investigation costs associated with the project. The Church would be eligible for reimbursement of certain costs associated with the heating oil tank removal under the State's Cleanup Reimbursement Program.
- November 26, 2004. Pre-K Contractor verbally notified MDE-WSP that the carbon filters' media was replaced
- November 30, 2004. MDE-OCP informed MDE-WSP of breakthrough (\*) in the mid-point of the carbon treatment system. Church/Pre-K to be notified of results verbally and in writing.
  - November 17, 2004 sample results.
    - Pre-treatment sample        MTBE at 120 ppb; TBA at 61 ppb; and TAME at 5 ppb
    - Mid-Treatment sample        MTBE at 4.4 ppb; styrene at 0.5 ppb (breakthrough)
    - Post treatment sample        MTBE non-detect
- December 1, 2004. MDE-OCP sent letter informing Fallston Presbyterian Church of sample results for the carbon treatment system.

- December 1, 2004. Public informational meeting hosted by the Fallston PreK/Church, MDE, and HCHD with concerned parents and residents in the area.
- December 13, 2004. MDE-OCP was notified by the Church of two abandoned wells (1954 & 1983) and one active well at the Church/Pre-K property.
- December 15, 2004. MDE-OCP collected groundwater samples from the non-community water supply well at the Pre-K.
- January 5, 2005. MDE-WSP notified the Church/Pre-K of change to a transient non-community water system designation because the Pre-K does not serve 25 or more customers. HCHD to collect future groundwater samples from the drinking water supply.
- January 25, 2005. MDE-OCP letter to the Church/Pre-K and MDE-WSP of sample results for the non-community supply well.
  - December 15, 2004 sample results:
    - Pre-treatment sample MTBE at 60 ppb; TAME at 2.6 ppb
    - Mid-Treatment sample MTBE non-detect
    - Post treatment sample MTBE non-detect
- January 26, 2005. MDE-OCP agreed to continue non-community supply well sampling until April 2005. Thereafter, HCHD will be responsible for sampling of the system.
- January 28, 2005. MDE-OCP collected groundwater samples from the non-community water supply well at the Pre-K.
- February 8, 2005. MDE received independent sample results from the Pre-K for the carbon treatment system.
  - December 1, 2004 sample results:
    - Mid-Treatment sample MTBE at 7.3 ppb
    - Post treatment sample MTBE non-detect
  - January 3, 2005 sample results:
    - Mid-Treatment sample MTBE at 0.6 ppb
    - Post treatment sample MTBE non-detect
- February 24, 2005. MDE-OCP letter informing the Church/Pre-K and MDE-WSP of sample results for the carbon treatment system.
  - January 28, 2005 sample results:
    - Pre-Treatment sample MTBE at 121 ppb (estimated); TAME at 4.90 ppb
    - Mid-Treatment sample MTBE at 2.48 ppb
    - Post-Treatment sample MTBE non-detect
- March 3, 2005. MDE-OCP collected groundwater samples from the non-community water supply well at the Pre-K.
- March 7, 2005. HCHD letter to the Church requesting sampling results collected by MDE-OCP.
- March 14, 2005. MDE-OCP received independent sample results from the Pre-K for the carbon treatment system collected on March 3, 2005.
  - Mid-Treatment sample MTBE at 4.2 ppb
  - Post-Treatment sample MTBE non-detect
- March 31, 2005. MDE-OCP collected groundwater samples from the non-community water supply well at the Fallston Pre-K.

- April 1, 2005. MDE-OCP letter informing the Church/Pre-K, HCHD, and MDE-WSP of sample results for the transient non-community supply well.
  - March 3, 2005 sample results:
    - Pre-treatment sample MTBE at 143 ppb; TAME at 6.01 ppb
    - Mid-Treatment sample MTBE at 13.1 ppb
    - Post treatment sample MTBE at 0.75 ppb
  
- April 8, 2005. E-mail from the Church requesting explanations about the changes in well status and testing status for the parents.
  
- April 14, 2005. MDE-OCP received independent sample results from the Pre-K for the carbon treatment system collected April 1, 2005. The carbon filters' media was replaced April 6, 2005.
  - Mid-Treatment sample MTBE at 17 ppb
  - Post-Treatment sample MTBE at 0.7 ppb
  
- May 5, 2005. MDE-OCP collected groundwater samples from the non-community water supply well at the Pre-K. Future sampling to be conducted by Harford County Health Department.
  
- May 12, 2005. Letter from Fallston Presbyterian Church requesting:
  - Continued monthly sampling by MDE-OCP; and
  - An update on MDE case no. 9-0816-HA (602 Fallston Road).
  
- June 7, 2005. MDE-OCP letter informing Church/Pre-K, HCHD, and MDE-WSP of sample results for the transient non-community supply well. HCHD will be responsible for future sampling of the system.
  - May 5, 2005 sample results:
    - Pre-treatment sample MTBE at 105 ppb; TAME at 3.03 ppb
    - Mid-Treatment sample MTBE at 17.3 ppb
    - Post treatment sample MTBE at 0.75 ppb
  
- June 30, 2005. HCHD letter to the Church stating that HCHD will now maintain monthly sampling of the non-community water supply well at the Pre-K.
  
- September 21, 2005. HCHD letter to the Church/Pre-K sample results for the transient non-community supply well.
  - August 1, 2005 sample results:
    - Pre-treatment sample MTBE at 9.8 ppb
    - Mid-Treatment sample MTBE at 0.94 ppb
    - Post treatment sample MTBE non-detect
  - September 1, 2005 sample results:
    - Pre-treatment sample MTBE at 14.3 ppb
    - Mid-Treatment sample MTBE at 1.11 ppb
    - Post treatment sample MTBE non-detect
  
- October 24, 2005. HCHD letter to the Church/Pre-K sample results for the transient non-community supply well.
  - October 3, 2005 sample results:
    - Pre-treatment sample MTBE at 23.5 ppb; TAME at 0.54 ppb
    - Mid-Treatment sample MTBE at 4.51 ppb
    - Post treatment sample MTBE at 1.1 ppb
  
- December 2, 2005. HCHD letter to the Church/Pre-K sample results for the transient non-community supply well.
  - November 1, 2005 sample results:
    - Pre-treatment sample MTBE at 61 ppb; TAME at 1.44 ppb
    - Mid-Treatment sample MTBE at 27 ppb
    - Post treatment sample MTBE at 3.82 ppb

- January 30, 2006. MDE-OCP received HCHD letter to the Church/Pre-K (dated January 27, 2006) regarding sampling results for the transient non-community supply well.
  - December 1, 2005 sample results:
    - Pre-treatment sample MTBE at 76.4 ppb; TAME at 2.13 ppb
    - Mid-Treatment sample MTBE at 5.94 ppb
    - Post treatment sample MTBE non-detect
  - January 4, 2006 sample results:
    - Pre-treatment sample MTBE at 38 ppb; TAME at 1.64 ppb
    - Mid-Treatment sample MTBE at 19.9 ppb; TAME at 0.74
    - Post treatment sample MTBE at 3.99 ppb
  
- March 23, 2006. HCHD letter to the Church/Pre-K sample results for the transient non-community supply well.
  - February 1, 2006 sample results:
    - Pre-treatment sample MTBE at 50.8 ppb; TAME at 1.46 ppb
    - Mid-Treatment sample MTBE at 2.42 ppb
    - Post treatment sample MTBE non-detect
  
- March 28, 2006. HCHD letter to the Church/Pre-K sample results for the transient non-community supply well.
  - March 1, 2006 sample results:
    - Pre-treatment sample MTBE at 47.9 ppb; TAME at 1.19 ppb
    - Mid-Treatment sample MTBE at 18.5 ppb
    - Post treatment sample MTBE at 1.26 ppb
  
- May 10, 2006: HCHD letter to the Church/Pre-K, sample results for the transient non-community supply well.
  - April 3, 2006 sample results:
    - Pre-treatment sample MTBE 33.1 ppb; TAME 1.24 ppb
    - Mid-Treatment sample MTBE 16.6 ppb; TAME non-detect
    - Post treatment sample MTBE non-detect; TAME non-detect
  
- June 8, 2006: HCHD letter to the Church/Pre-K, sample results for the transient non-community supply well.
  - May 1, 2006 sample results:
    - Pre-treatment sample MTBE 39.1 ppb; TAME 1.1 ppb
    - Mid-Treatment sample MTBE 14.6 ppb; TAME non-detect
    - Post treatment sample MTBE 1.01 ppb; TAME non-detect
  
- July 17, 2006: HCHD letter to Fallston Presbyterian Church/Pre-K, sample results for the transient non-community supply well.
  - June 1, 2006 sample results:
    - Pre-treatment sample MTBE 12.2 ppb; TAME non-detect
    - Mid-Treatment sample MTBE 1.49 ppb; TAME non-detect
    - Post treatment sample MTBE non-detect; TAME non-detect
  
- August 3, 2006: HCHD letter to the Church/Pre-K, sample results for the transient non-community supply well.
  - July 6, 2006 sample results:
    - Pre-treatment sample MTBE 5.69 ppb; TAME non-detect
    - Mid-Treatment sample MTBE non-detect; TAME non-detect
    - Post treatment sample MTBE non-detect; TAME non-detect
  
- September 29, 2006: HCHD letter to the Church/Pre-K, sample results for the transient non-community supply well.
  - September 5, 2006 sample results:
    - Pre-treatment sample MTBE 8.98 ppb; TAME non-detect

- Mid-Treatment sample MTBE 1.22 ppb; TAME non-detect
  - Post treatment sample MTBE non-detect; TAME non-detect
- October 17, 2006. MDE-OCP received the results of sampling performed at the Church/Pre-K by HCHD.
- October 2, 2006 sample results:
    - Pre-treatment sample MTBE 20.1 ppb; TAME non-detect
    - Mid-Treatment sample MTBE 1.72 ppb; TAME non-detect
    - Post treatment sample MTBE non-detect; TAME non-detect
- November 28, 2006: HCHD letter to the Church/Pre-K, sample results for the transient non-community supply well.
- November 1, 2006 sample results:
    - Pre-treatment sample MTBE 37.5 ppb; TAME 0.75 ppb
    - Mid-Treatment sample MTBE 2.24; TAME non-detect
    - Post treatment sample MTBE non-detect; TAME non-detect
- December 19, 2006: HCHD letter to the Church/Pre-K, sample results for the transient non-community supply well.
- December 4, 2006 sample results:
    - Pre-treatment sample MTBE 83.6 ppb; TAME 2.47 ppb
    - Mid-Treatment sample MTBE 30.8; TAME 0.71 ppb
    - Post treatment sample MTBE 1.37; TAME non-detect
- January 24, 2007: HCHD letter to the Church/Pre-K, sample results for the transient non-community supply well.
- January 2, 2007 sample results:
    - Pre-treatment sample MTBE 30.7 ppb; TAME 0.7 ppb
    - Mid-Treatment sample MTBE 2.4; TAME non-detect
    - Post treatment sample MTBE non-detect; TAME non-detect
- February 28, 2007: HCHD letter to the Church/Pre-K, sample results for the transient non-community supply well.
- February 1, 2007 sample results:
    - Pre-treatment sample MTBE non-detect; TAME non-detect
    - Mid-Treatment sample MTBE 4.82 ppb; TAME non-detect
    - Post treatment sample MTBE non-detect; TAME non-detect
- April 11, 2007: HCHD letter to the Church/Pre-K, sample results for the transient non-community supply well.
- March 1, 2007 sample results:
    - Pre-treatment sample MTBE 63.1 ppb; TAME 1.79 ppb
    - Mid-Treatment sample MTBE 16.1 ppb; TAME non-detect
    - Post treatment sample MTBE 1.24; TAME non-detect
- July 24, 2007: HCHD letter to the Church/Pre-K, sample results for the transient non-community supply well.
- April 2, 2007 sample results:
    - Pre-treatment sample MTBE 37.7 ppb; TAME 0.85 ppb
    - Mid-Treatment sample MTBE 7.31 ppb; TAME non-detect
    - Post treatment sample MTBE non-detect; TAME non-detect
- July 31, 2007: HCHD letter to the Church/Pre-K, sample results for the transient non-community supply well.
- May 2, 2007 sample results:
    - Pre-treatment sample MTBE 27.3 ppb; TAME non-detect
    - Mid-Treatment sample MTBE 1.8 ppb; TAME non-detect
    - Post treatment sample MTBE non-detect; TAME non-detect

- July 31, 2007: HCHD letter to the Church/Pre-K, sample results for the transient non-community supply well.
  - June 4, 2007 sample results:
    - Pre-treatment sample MTBE 21 ppb; TAME 0.56 ppb
    - Mid-Treatment sample MTBE 5.82 ppb; TAME non-detect
    - Post treatment sample MTBE 0.53; TAME non-detect
  
- August 2, 2007: HCHD letter to the Church/Pre-K, sample results for the transient non-community supply well.
  - July 2, 2007 sample results:
    - Pre-treatment sample MTBE 9.12 ppb; TAME non-detect
    - Mid-Treatment sample MTBE 5.9 ppb; TAME non-detect
    - Post treatment sample MTBE 0.56; TAME non-detect
  
- September 26, 2007: HCHD letter to the Church/Pre-K, sample results for the transient non-community supply well.
  - August 2, 2007 sample results:
    - Pre-treatment sample MTBE 7.45 ppb; TAME non-detect
    - Mid-Treatment sample MTBE 4.99 ppb; TAME non-detect
    - Post treatment sample MTBE non-detect; TAME non-detect
  
- October 5, 2007: HCHD letter to the Church/Pre-K, sample results for the transient non-community supply well.
  - September 5, 2007 sample results:
    - Pre-treatment sample MTBE 3.68 ppb; TAME non-detect
    - Mid-Treatment sample MTBE 4.37 ppb; TAME non-detect
    - Post treatment sample MTBE 0.65; TAME non-detect
  
- October 30, 2007. MDE-OCP received sample results for the Church/Pre-K transient non-community supply well. Samples collected by Fallston Service Center, Inc.
  - October 18, 2007 sample results:
    - Pre-treatment sample MTBE 27 ppb; TAME 0.6 ppb
    - Mid-Treatment sample MTBE 6.2 ppb; TAME non-detect
    - Post treatment sample MTBE 0.8 ppb; TAME non-detect
  
- November 29, 2007: HCHD letter to the Church/Pre-K, sample results for the transient non-community supply well.
  - November 1, 2007 sample results:
    - Pre-treatment sample MTBE 22.4 ppb; TAME non-detect
    - Mid-Treatment sample MTBE 8.51 ppb; TAME non-detect
    - Post treatment sample MTBE non-detect; TAME non-detect
  
- January 15, 2008: HCHD letter to the Church/Pre-K, sample results for the transient non-community supply well.
  - December 3, 2007 sample results:
    - Pre-treatment sample MTBE 35.0 ppb; TAME 0.86
    - Mid-Treatment sample MTBE 16.1 ppb; TAME non-detect
    - Post treatment sample MTBE 1.17; TAME non-detect
  
- January 17, 2008: MDE-OCP received sample results for the Church/Pre-K transient non-community supply well. Samples collected by Fallston Service Center, Inc.
  - December 20, 2008 sample results:
    - Pre-treatment sample MTBE 31 ppb; TAME 0.6
    - Mid-Treatment sample MTBE 9.9 ppb; TAME non-detect
    - Post treatment sample MTBE 1.6 ppb; TAME non-detect
  
- January 29, 2008: MDE-OCP contacted the Church/Pre-K regarding detected MTBE levels in the post treatment sample results. The GAC canisters are to be changed.

- January 29, 2008: HCHD letter to the Church/Pre-K, sample results for the transient non-community supply well.
  - January 2, 2008 sample results:
    - Pre-treatment sample MTBE 19.7 ppb; TAME non-detect
    - Mid-Treatment sample MTBE 11.2 ppb; TAME non-detect
    - Post treatment sample MTBE 1.26; TAME non-detect
  
- March 4, 2008: HCHD letter to the Church/Pre-K, sample results for the transient non-community supply well.
  - February 4, 2008 sample results:
    - Pre-treatment sample MTBE 59.8 ppb; TAME 0.87
    - Mid-Treatment sample MTBE 3.04 ppb; TAME non-detect
    - Post treatment sample MTBE non-detect; TAME non-detect
  
- March 28, 2008: HCHD letter to the Church/Pre-K, sample results for the transient non-community supply well.
  - March 3, 2008 sample results:
    - Pre-treatment sample MTBE 27.11, TAME non-detect
    - Mid-Treatment sample MTBE 7.67 ppb; TAME non-detect
    - Post treatment sample MTBE non-detect; TAME non-detect
  
- April 28, 2008: HCHD letter to the Church/Pre-K, sample results for the transient non-community supply well.
  - April 1, 2008 sample results:
    - Pre-treatment sample MTBE 29.8, TAME 0.87
    - Mid-Treatment sample MTBE 11.5 ppb; TAME non-detect
    - Post treatment sample MTBE non-detect; TAME non-detect
  
- June 18, 2008: HCHD letter to the Church/Pre-K, sample results for the transient non-community supply well.
  - May 1, 2008 sample results:
    - Pre-treatment sample MTBE 17.6 ppb, TAME non-detect
    - Mid-Treatment sample MTBE 10.7 ppb; TAME non-detect
    - Post treatment sample MTBE 0.88 ppb; TAME non-detect
  
- August 21, 2008: MDE-OCP received sample results from HCHD for the transient non-community supply well.
  - June 2, 2008 sample results:
    - Pre-treatment sample MTBE 37.6 ppb, TAME 0.66 ppb
    - Mid-Treatment sample MTBE 14.5 ppb; TAME non-detect
    - Post treatment sample MTBE 1.17 ppb; TAME non-detect
  - July 1, 2008 sample results:
    - Pre-treatment sample MTBE 26.6 ppb, TAME non-detect (estimated values)
    - Mid-Treatment sample MTBE 15.1 ppb; TAME non-detect
    - Post treatment sample MTBE 1.26 ppb; TAME non-detect
  
- September 2, 2008: HCHD letter to the Church/Pre-K, sample results for the transient non-community supply well.
  - July 1, 2008 sample results (*results above*).
  
- October 6, 2008: HCHD letter to the Church/Pre-K, sample results for the transient non-community supply well.
  - August 1, 2008 sample results:
    - Pre-treatment sample MTBE 38.9 ppb, TAME 0.74 ppb
    - Mid-Treatment sample MTBE 1.31 ppb; TAME non-detect
    - Post treatment sample MTBE non-detect; TAME non-detect
  
- November 25, 2008: HCHD letter to the Church/Pre-K, sample results for the transient non-community supply well.
  - October 2, 2008 sample results:

- Pre-treatment sample            MTBE 45.9 ppb, TAME 1.35 ppb
  - Mid-Treatment sample            MTBE 16.2 ppb; TAME non-detect
  - Post treatment sample            MTBE 0.99; TAME non-detect
- December 3, 2008: HCHD letter to the Church/Pre-K, sample results for the transient non-community supply well.
    - November 3, 2008 sample results:
      - Pre-treatment sample            MTBE 26.9 ppb, TAME 0.85 ppb
      - Mid-Treatment sample            MTBE 16.9 ppb; TAME non-detect
      - Post treatment sample            MTBE non-detect; TAME non-detect
  - December 22, 2008: HCHD letter to the Church/Pre-K, sample results for the transient non-community supply well.
    - December 1, 2008 sample results:
      - Pre-treatment sample            MTBE 24.6 ppb, TAME non-detect
      - Mid-Treatment sample            MTBE 6.97 ppb; TAME non-detect
      - Post treatment sample            MTBE 0.63 ppb; TAME non-detect
  - January 23, 2009: HCHD letter to the Church/Pre-K, sample results for the transient non-community supply well.
    - January 5, 2009 sample results:
      - Pre-treatment sample            MTBE 40 ppb, TAME 0.69 ppb
      - Mid-Treatment sample            MTBE 7.92 ppb; TAME non-detect
      - Post treatment sample            MTBE 0.53 ppb; TAME non-detect

**Future Activities:**

- Currently, the MDE Oil Control Program is investigating petroleum impacts at the Fallston Service Center formerly an active gasoline retail station with UST systems located at 602 Fallston Road (*Case No. 1989-0816HA*).

**Future Updates:**

- Future updates on this case investigation will be posted at [www.mde.state.md.us](http://www.mde.state.md.us) [at the MDE home page, (select) Land, (select) Program, (select) Oil Control, (select) Remediation Sites].

**Contacts:**

- Maryland Department of the Environment (MDE):
  - Water Supply Program - 410-537-3706
  - Oil Control Program - 410-537-3443
- Harford County Health Department (HCHD):            443-643-0322 and 443-643-0307

**Disclaimer**

The intent of this fact sheet is to provide the reader a summary of site events as they are contained within documents available to MDE. To fully understand the site and surrounding environmental conditions, MDE recommends that the reader review the case file that is available at MDE through the Public Information Act. The inclusion of a person or company's name within this fact sheet is for informational purposes only and should not be considered a conclusion by MDE on liability, involvement in a wrongful act or contribution to environmental damage.