

Pond at Church Hill 2018 Drinking Water Quality Report



Important Information About Your Drinking Water

We're pleased to present to you the Annual Water Quality Report for 2018. This report is designed to inform you about the water quality and services we deliver to you every day. Maryland Environmental Service (MES), an Agency of the State of Maryland, operates the water treatment facility and prepared this report on behalf of the Pond at Church Hill.

The Environmental Protection Agency (EPA) regulates Public Water Systems and the contaminants found in water through the implementation of the Safe Drinking Water Act (SDWA). The SDWA sets regulations and guidelines for how public water systems operate and identifies several hundred drinking water contaminants, establishes monitoring frequencies and limitations. The Maryland Department of the Environment (MDE) is responsible for the enforcement of the SDWA and routinely complete Sanitary Surveys as part of there ongoing inspection and monitoring program. MES provides safe dependable operations of the water system and is dedicated to consistently providing high quality drinking water that meets or exceeds the SDWA standards.

If you have any questions about this report or have questions concerning your water utility, please contact **Jay Janney at 410-729-8350, e-mail jjann@menv.com**.

For More Information:

For the opportunity to ask more questions or participate in decisions that may affect your drinking water quality, please contact Marion Grien with **the Pond at Church Hill at 410-758-8489**.

The Pond at Church Hill water works consists of two drilled wells in the Aquia formation. After the water is pumped out of the well disinfectant is added to protect against microbial contaminants. The Maryland Department of the Environment has performed an assessment of the source water. A copy of the results is available. Call **Maryland Environmental Service at 410-729-8350**

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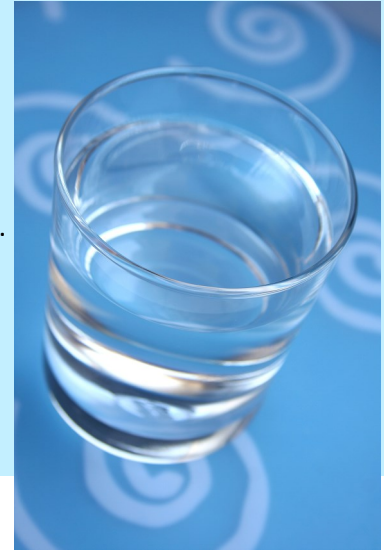
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Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the **Safe Drinking Water Hotline (1-800-426-4791)**.

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Definitions:

- ◆ **Maximum Contaminant Level Goal (MCLG)** - The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.
- ◆ **Maximum Contaminant Level (MCL)** - The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.
- ◆ **Action Level** - The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow
- ◆ **Treatment Technique (TT)** - A required process intended to reduce the level of a contaminant in drinking water
- ◆ **Turbidity** - Relates to a condition where suspended particles are present in the water. Turbidity measurements are a way to describe the level of “cloudiness” of the water.
- ◆ **pCi/l** - Picocuries per liter. A measure of radiation.
- ◆ **ppb** - parts per billion or micrograms per liter



Special points of interest:

The water at the Pond at Church Hill is tested for over 120 different compounds.

The Pond at Church Hill Drinking Water met all of the State and Federal requirements

Drinking Water, including bottled water, may reasonably be expected to contain at least small amounts of some compounds. The presence of these compounds does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the **Environmental Protection Agency's (EPA's) Safe Drinking Water Act Hotline (1-800-426-4791)**

Fluoride Information:

Federal regulations require that fluoride, which occurs naturally in your water supply, not exceed a concentration of 4.0 mg/l (4000 ppb) in drinking water. This is an enforceable standard called a Maximum Contaminant Level (MCL), and it has been established to protect the public health. Exposure to drinking water levels above 4.0 mg/l for many years may result, in some cases, of crippling skeletal fluorosis, which is a serious bone disorder.

Federal law required that we notify you when monitoring indicates that the fluoride in your drinking water exceeds 2.0 mg/l (2000 ppb). This is intended to alert families about dental problems that might affect children under nine years of age. The fluoride concentration of your water exceeds this federal guideline.

Fluoride in children's drinking water at levels of approximately 1 mg/l reduces the number of cavities. However, some children exposed to levels of fluoride greater than about 2.0 mg/l may develop fluorosis. Dental fluorosis, in its moderate and severe forms, is a brown staining and/or pitting of the *permanent* teeth. Because dental fluorosis occurs only when *developing* teeth (before they erupt from the gums) are exposed to elevated levels of fluoride, households without children are not expected to be affected by this level of fluoride. Families with children under the age of nine are encouraged to seek other sources of drinking water for their children to avoid the possibility of staining and pitting.

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Contaminant	Highest Level Allowed (EPA's MCL)	Highest Level Detected	Ideal Goal (EPA's MCLG)
Regulated at the Treatment Plant			
Gross Beta (2017 Testing) Typical source of contaminant: Erosion of natural deposits	50 pCi/l	4.3 pCi/l	0 pCi/l
Fluoride (2016 Testing) Typical Source of Contamination: Additive which promotes strong teeth	4000 ppb	154 ppb (Range: 150 - 154 ppb)	4000 ppb
Barium (2016 Testing) Typical Source of Contamination: Erosion of natural deposits	2000 ppb	180 ppb (Range: 179 ppb - 180 ppb)	2000 ppb
Regulated in the Distribution System			
Chlorine Water additive used to control microbes. * Annual Average of results	4 ppm	0.95 ppm * (Range (0.43 - 1.33))	4 ppm
Total Trihalomethanes (TTHM) (2017 Testing) Typical Source of Contamination: By-product of drinking water chlorination	80 ppb	8.3 ppb	n/a
Haloacetic Acids (HAA5) (2017 Testing) Typical Source of Contamination: By-product of drinking water chlorination	60 ppb	6.6 ppb	n/a
Regulated in the Distribution System			
	Action Level	90th percentile	Ideal Goal
Copper (2017 Testing) Typical Source of Contamination: Corrosion of household plumbing fixtures and systems	1300 ppb	21 ppb	1300 ppb
Lead (2017 Testing) Typical Source of Contamination: Corrosion of household plumbing fixtures and systems	15 ppb	0 ppb	0 ppb
Regulated in the Distribution System			
	MCL	Highest number of positive results in any month	Ideal Goal
Total Coliform Source: Naturally present in the environment	1	3*	0
*MCL was not exceeded in 2018 - Level 1 Assessment was completed see text below for more information.			

The table above lists all the drinking water contaminants that were detected during the 2018 calendar year. The presence of these compounds in the water does not necessarily indicate that the water poses a health risk. Unless otherwise noted, the data presented in the table is from testing done January 1 – December 31, 2018. The State requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year.

Total Coliform Positive:

We routinely monitor for the presence of drinking water contaminants. This monitoring checks for the presence of total coliform bacteria and E. coli bacteria. During September 2018, three (3) drinking water samples collected at the Ponds at Church Hill showed the presence of total coliform. While this did not violate the drinking water limitations, it did trigger a Level 1 Assessment of the water system which identified possible causes for the total coliform detections. As a corrective measure, the system chlorinated both wells to disinfect and sterilize the portion of the water system prior to the water being treated. In addition, a small water leak that was detected during the Level 1 Assessment was fixed in the water plant. After the corrective actions were made there have been no additional total coliform positive results since September 2018 and the problem seems to have been an isolated incident.

Sources of Drinking Water

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases radioactive material, and can pick up substances resulting from the presence of animals or from human

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain compounds in water provided by public water systems. We treat our water according to EPA's regulations. Food and Drug Administration regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Lead Prevention

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. The Pond at Church Hill is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your drinking water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from **the EPA Safe Drinking Water Hotline at 1-800-426-4791** or at <http://www.epa.gov/safewater/lead>.

Important information about Gross Beta Emitters:

Beta emitters are naturally occurring radiations in soil, air and water. These emitters generally occur when certain elements decay or break down in the environment. The emitters enter drinking water through various methods including the erosion of natural deposits. There are no immediate health risk from consuming water that contains gross beta, however some people who drink water containing beta emitters in excess of the MCL over many years may have an increased risk of getting cancer. Currently, the highest level of gross beta detected is well below the treatment technique of 50 pCi/l.

Contaminants That May Be Present in Source Water:

Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife. Pesticides and Herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses. Inorganic Contaminants, such as salts and metals, which can be naturally-occurring or result from urban stormwater runoff, industrial, or domestic wastewater discharges, oil and gas production, mining, or farming. Organic Chemical Contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems. Radioactive Contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.

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