



Consumer Confidence Report Certification

Water Supply System Name: Calvert Manor

PWSID: MD0070206 County: Cecil

Consumer Confidence Report Due to customers and to MDE no later than July 1st; Certification of Delivery Due to MDE no later than October 1st each year.

CCR and Certification are best delivered together by email attachment if possible; "Return Receipt Requested".

I confirm that the Consumer Confidence Report for the year **2016** has been distributed to customers (and appropriate notices of availability have been given) in accordance with COMAR 26.04.01 by July 1, 2017. I further certify that the report is correct and consistent with compliance monitoring data previously submitted to MDE.

Certified by: Name Ann M. Murphy
 Signature [Handwritten Signature]
 Title ADMINISTRATOR
 Phone # 410-658-6555 Date 5/18/17

Specific details on CCR distribution: (Date all that apply)

- 5/19/17 **Date** CCR was delivered to MDE.
- _____ **Date** CCR was distributed by mail.
- 5/19/17 **Date** CCR was distributed by other methods. List methods of delivery Posted throughout building
- Approved electronic delivery plan is on file with MDE. (Check if applicable)
- _____ **Date** a notice of CCR availability was published.
- _____ **Date** good faith efforts were used to reach non-bill paying consumers. Those efforts included the following recommended methods.
 - _____ **Date** of posting the CCR on the Internet at: _____
 - _____ **Date** of mailing the CCR to postal patrons (bulk mail) within the service area. (attach zip codes).
 - _____ **Date** of advertising availability of the CCR in news media (attach copy of announcement).
 - _____ **Date** of publication of CCR in local newspaper (attach copy).
 - _____ **Date** of delivery of multiple copies to single bill addresses serving several persons such as: apartments, businesses, and large private employers.
 - _____ **Date** of delivery to community organizations (attach a list).

- Check violation types addressed:
- A tier 3 public notice is distributed with the CCR.
 - Monitoring violations are addressed in the CCR.
 - MCL violations are addressed in the CCR.
 - CCR Delivery or Adequacy Violations are addressed in the CCR.

Mandatory for systems serving 100,000 or more persons

- _____ **Date** posted CCR on a publicly accessible Internet site. List Internet address: _____
- _____ **Date** CCR delivered to other agencies or additional methods used. (Optional, attach list or description).



Calvert Manor

2017 Annual Drinking Water Quality Report

MD0070206

Is my water safe?

Last year, as in years past, your tap water met all EPA and state drinking water health standards. Calvert Manor is pleased to provide this annual water quality report for calendar year 2016. This report is designed to inform you about the quality water and services we deliver to you every day. Our constant goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water. Calvert Manor routinely monitors for contaminants in your drinking water. We vigilantly safeguard our water supplies and once again we are proud to report that our system has never violated a maximum contaminant level or any other water quality standard.

Do I need to take special precautions?

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/Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Water Drinking Hotline (800-426-4791).

Where does my water come from and what are the potential sources of contamination?

Your drinking water is supplied by two wells in the Sykesville Formation, an unconfined aquifer. The susceptibility analysis for Calvert Manor's water supply is based on a review of the water quality data, potential sources of contamination, aquifer characteristics, and well integrity. For more information on the source of your water, the significant potential sources of contamination, and susceptibility analysis, contact the Maryland Source Water Assessment Program at the Maryland Department of the Environment at (410) 537-3714 or visit on the web at: www.mde.maryland.gov

Why may there be contaminants in my drinking water?

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants 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) Safe Drinking Water Hotline (800-426-4791). 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 activity. Contaminants that may be present in source water include:

1. Microbial contaminants, such as viruses and bacteria that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
2. Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban storm water runoff, industrial, or domestic wastewater discharges, oil and gas production, mining, or farming.
3. Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.
4. 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 storm water runoff, and septic systems.
5. Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities. In order to ensure that tap water is safe to drink, EPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water, which must provide the same protection for public health.

Units of Measurement & Conversions:

NA: Not applicable

ppm: parts per million, or milligrams per liter (mg/L)

pCi/L: picocuries per liter (a measure of radioactivity)

ppb: parts per billion, or micrograms per liter (µg/L)

Important Drinking Water Definitions:

- MCLG:** Maximum Contaminant Level Goal. The level of a contaminant in drinking water below which there is no known or expected risks for safety. MCLG allows for margin of safety.
- MCL:** Maximum Contaminant Level. 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.
- AL:** Action Level. The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
- MRDLG:** Maximum Residual Disinfectant Level Goal. The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbe contaminants.
- MRDL:** Maximum Residual Disinfectant Level. The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbe contaminants.

Water Quality Data Table

The table below lists all of the drinking water contaminants that we detected in your water. The presence of contaminants in the water does not necessarily indicate that the water poses a health risk. The EPA or the State requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of our data, though representative, may be up to five years old.

Contaminant	Date Sampled	MCLG	Action Level (AL)	90 th Percentile	# sites over AL	Units	Violation	Typical Source
Copper	12/31/2013	1.3	1.3	0.2	0	ppm	No	Erosion of natural deposits; leaching from wood preservatives; corrosion of household plumbing systems

Contaminant (units)	Collection Date	MCLG	MCL	Highest Level Detected	Range		Violation	Typical Source
					Low	High		
Disinfectants and Disinfection By-Products:								
Total Trihalomethanes (ppb)	08/13/2014	No goal for the total	80	1.4	1.4	1.4	No	Byproduct of chlorination
Chlorine (ppm)		MRDLG=4	MRDL=4	0.8	0.6	0.8	No	Water additive used to control microbes
Inorganic Contaminants:								
Nitrate as Nitrogen (ppm)		10	10	1	0.9	0.9	No	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits

Lead

If present, elevated levels of lead can cause serious health problems, especially in pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Calvert Manor 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>.

Copper

Copper is an essential nutrient, but some people who drink water containing copper in excess of the action level over a relatively short amount of time could experience gastrointestinal distress. Some people who drink water containing copper in excess of the action level over many years could suffer liver or kidney damage. People with Wilson's disease should consult their personal doctor.

Nitrate

Nitrate in drinking water at levels above 10 ppm is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. If you are caring for an infant, you should ask for advice from your health care provider.

Calvert Manor

For additional information or questions contact:

**Stan Snow
(410) 729-8406**