

2017 WATER QUALITY REPORT FOR THE CASCADE TOWN CENTER WATER SYSTEM PWSID # 0210007

Is my water safe?

Last year, as in years past, your tap water met all U.S. Environmental Protection Agency (EPA) and state drinking water health standards. The Washington County Department of Water Quality vigilantly safeguards its water supplies and once again we are proud to report that our water 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?

The Cascade Town Center Water System utilizes six wells and a spring as the main source for water. The water for this system receives pH adjustment, corrosion control, and chlorination prior to entering the distribution system.

Source water assessment and its availability

The sources of Cascade Town Center's water supply are six wells in unconfined fractured rock aquifers. The Source Water Assessment area was delineated by the WSP using EPA approved methods specifically designed for this source type. Point sources of contamination were investigated within the assessment area from field inspections, contaminant inventory databases, and previous studies. The Maryland Office of Planning's 2000 digital land use map for Washington County was used to identify non-point sources of contamination. Well information and water quality data were also reviewed. An aerial photograph and maps showing potential contaminants sources and land use within the Source Water Assessment area are included in this report.

The Cascade Town Center Water supply may be susceptible to contamination by volatile organic compounds, microbial contaminants such as viruses and bacteria, pesticides and herbicides which may come from a variety of sources such as agriculture and domestic uses, and organic chemical contaminants including synthetic and volatile organic chemicals which are by-products of industrial processes and petroleum production and septic systems.

Why are there 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: microbial contaminants, such as viruses and bacteria, that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife; 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; pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses; 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; and 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.

How can I get involved?

For more information on getting involved, please contact our main office at (240) 313-2600.

Water Quality Data Table

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of contaminants in water provided by public water systems. The table below lists all of the drinking water contaminants that we detected during the calendar year of this report. Although many more contaminants were tested, only those substances listed below were found in your water. All sources of drinking water contain some naturally occurring contaminants. At low levels, these substances are generally not harmful in our drinking water. Removing all contaminants would be extremely expensive, and in most cases, would not provide increased protection of public health. A few naturally occurring minerals may actually improve the taste of drinking water and have nutritional value at low levels. Unless otherwise noted, the data presented in this table is from testing done in the calendar year of the report. 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 vary significantly from year to year, or the system is not considered vulnerable to this type of contamination. As such, some of our data, though representative, may be more than one year old. In this table you will find terms and abbreviations that might not be familiar to you. To help you better understand these terms, we have provided the definitions below the table.

	MCLG or	MCL,	Your	Rang	a	Sample		
<u>Contaminants</u>	MRDLG	MRDL	Water	Low	High	<u>Date</u>	<u>Violation</u>	Typical Source
Disinfectants & Disinfectant B	y-Products							
(There is convincing evidence	that additio	n of a dis	infectant is	necessar	y for co	ntrol of mi	crobial contan	ninants)
Chlorine (ppm)	4	4	0.90	0.60	0.90	2017	No	Water additive used to control microbes.
Inorganic Contaminants								
Haloacitic Acids (HAA5) ppb	NA	60	16.5	16.5	16.5	2017	No	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum
Total Trihalomethanes (TTHM) ppb	NA	80	21.98	21.98	21.98	2017	No	By-product of drinking water disinfection
<u>Contaminants</u>	MCLG	AL	Your Water		nge High	Sample Date	Violation	<u>Typical Source</u>
Inorganic Contaminants								
Nitrate (measured as nitrogen) ppm	10	10	2.0	0.77	1.9	2017	No	Runoff from fertilizer use; leaching from septic tanks, sewage; Erosion of natural deposits
Radioactive Contaminants								
Beta/Photon emitters (pCi/L)	0	50	5.6	5.6	5.6	2015	No	Decay of natural and man-made deposits.
Combined Radium 226/228 (pCi/L)	0	5	1.6	1.6	1.6	2015	No	Erosion of natural deposits

Gross Alpha excluding radon and uranium (pCi/L)	0	15	4.2	4.2	4.2	2015	No	Erosion of natural deposits
Lead and Copper				#Sites over AL	Units			
Copper (ppm)	1.3	1.3	0.21	0	ppm	2017	No	Erosion of natural deposits; Leaching from wood preservation; Corrosion of household plumbing fixtures
Lead (ppb)	0	15	3	0	ppb	2017	No	Corrosion of household plumbing systems; Erosion of natural deposits

Important Definitions

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Term	Definition
ppm	ppm: parts per million, or milligrams per liter (mg/L) or one ounce ir 7,350 gallons of water.
ppb	ppb: parts per billion, or micrograms per liter (μg/L) or one ounce in 7,350,000 gallons of water.
pCi/L	pCi/L: picocuries per liter (a measure of radioactivity)
NA	NA: not applicable
ND	ND: Not detected
NR	NR: Monitoring not required, but recommended.
Important Drinking Water Definitions	
Term	Definition
MCLG	MCLG: Maximum Contaminant Level Goal: 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.
MCL	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.
AVG	Regulatory compliance with some MCLs are based on the running average of monthly samples.
Level 1 Assessment	Study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system
Level 2 Assessment	Very detailed study of the water system to identify potential problems and determine (if possible) why an E. coli MCL violation has occurred and/or why tota coliform bacteria have been found in our water system on multiple occasions.
π	TT: Treatment Technique: A required process intended to reduce the level of a contaminant in drinking water.
AL	AL: Action Level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
Variances and Exemptions	Variances and Exemptions: State or EPA permission not to meet an MCL or a treatment technique under certain conditions.
MRDLG	MRDLG: Maximum residual disinfection 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 microbial contaminants.
MRDL	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 microbial contaminants.
MNR	MNR: Monitored Not Regulated

MPL MPL: State Assigned Maximum Permissible Level

For more information on the Washington County Department of Water Quality, please visit our website at www.washco-md.net.

For more information on the Cascade Town Center Water System Please contact Mr. Kim Bowers at 240-313-2600