

2022 Annual Drinking Water Quality Report Waldorf Community – MD0080049 Charles County, Maryland Prepared by the Department of Public Works Utilities Division

We are pleased to present the Annual Drinking Water Quality Report for the Waldorf Community for the period of January 1, 2022, through December 31, 2022. This report informs you about the quality of the water and services we deliver to you every day. This report is provided in compliance with Federal regulations and is updated annually.

Our constant goal is to provide you with a safe and dependable supply of drinking water. We are committed to protecting water resources, improving the water treatment process, and ensuring the quality of your water meets or exceeds all local, State, and Federal standards and regulations. We are confident the drinking water from the Waldorf system is safe and meets all requirements. A source water assessment was performed by MDE and is available on their website, mde.maryland.gov.

Usted puede obterner esta información en español, llamando al Departamento de Obras Públicas División de Utilidades en 301-609-7400.

The sources of drinking water for the Waldorf system are the Patapsco and Magothy aquifers and the Washington Suburban Sanitary Commission's surface water plant. An aquifer is an underground reservoir or deposit of water that is tapped by drilling wells and pumping the water to the surface for distribution. The earth between the surface and the underground aquifer helps to purify the water, making it easier to treat the water supply before it is pumped into the water distribution system. Charles County also purchases water from the Washington Suburban Sanitary Commission (WSSC) which is blended with the existing Waldorf groundwater wells. The sources of water used by WSSC for its water treatment plants are the Patuxent and Potomac Rivers. The Waldorf system is served by 15 wells.

All sources of drinking water are subject to potential contamination by substances that are naturally occurring or manmade, such as microbes, inorganic or organic chemicals, and radioactive substances. 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 the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPA's Safe Drinking Water Hotline at 1-800-426-4791.

Some people may be more vulnerable to contaminants in drinking water than the general population. The elderly, infants, and immunocompromised persons, such as persons with cancer who are undergoing chemotherapy, persons who have undergone organ transplants, people with Human Immunodeficiency Virus/Acquired Immunodeficiency Syndrome (HIV/AIDS) or other immune system disorders, can be at a higher risk of infection from contaminants. These people should seek advice about drinking water from their healthcare providers. The Environmental Protection Agency/Center for Disease Control (EPA/CDC) guidelines to reduce the risk of infection are available from the Safe Drinking Water Hotline at 1-800-426-4791.

The Department of Public Works, Utilities Division, routinely monitors the Waldorf system for contaminants in your drinking water according to Federal and State laws. The following table shows the results of our monitoring efforts and identifies the year a contaminant was tested. The results of testing for contaminants which are not regulated are listed in the Unregulated Contaminants section. Definitions of key terms are presented below the table.

Charles County purchases some water from WSSC (approximately 3 % on a yearly basis), therefore we are required to provide a link to WSSC's CCR:

 $\hbox{$\stackrel{\cdot}{\text{https://www.wsscwater.com/files/live/sites/wssc/files/water\%20quality/wqr_latest_en.pdf}$

Waldorf System

Contaminant Violation Level Detected Measurement MCLG MCL Major Source in Drint Water
Contaminant Y/N Detected Measurement MCLG MCL Water Disinfectants Chlorine (2022) N 1.1 - 1.2 ppm MRDLG 4 MRDL Disinfectant By - Product HAA5s (Total Haloacetic Acids) (2022) Range - all sources N 0 - 27.5 ppb No goal for the total Highest LRAA 11.5 TTHMs (Total Trihalomethanes) (2022) Range - all sources N 0 - 69.1 ppb No goal for the total Highest LRAA 28.9 Inorganic Contaminants Transic (2022) Range of levels Detected (all sources) N 0 - 6.16 ppb 0 10 wastes Barium Range - all sources (2022) N 0 - 0.327 ppm 2 2 natural deposits seven descriptions of natural deposits seven descriptions natural deposits natural deposi
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(2016) N 0.26 to 0.82 ppb 50 50 Discharge from min Corrosion of househ Lead plumbing systems, ero
Distribution (2020) N 1.3 ppb 0 AL= 15 of natural deposits
Corrosion of househ plumbing system; ero of natural deposits leaching from woo
Distribution (2020) N 0.15 ppm 1.3 AL= 1.3 preservatives Radioactive Contaminants
Beta/proton emitters Range – Decay of natural and r
all sources (2022) N 8.6 – 13.5 PCi/L O 50 made deposits
(226 & 228)
Range – all sources (2022) N 0.8 – 0.9 pCi/L 0 5 Erosion of natural dep
Gross Alpha excluding radon and uranium (2022) N 2.9 – 4.4 pCi/L 0 15 Erosion of natural dep

Radium 226 Range - all sources (2016)	N	ND to 1.2	pCi/L	0	5	Erosion of natural deposits
Radium 228 Range - all sources (2016)	N	ND to 2.4	pCi/L	0	5	Erosion of natural deposits

Unregulated (Contaminant	Monitoring R	ule results (U	CMR4), do	ne in 2018	
	Violation	Range of	Unit			
Contaminant	Y/N	Level Detected	Measurement	MCLG	MCL	Use or Environmental Source
Germanium						
						It is a trace metal found in a
Range		0 to 0.34				variety of sedimentary ore
Average	N	0.02	Ppb	N/A	N/A	deposits.
Manganese						Gray/pink metal used in
						manufacturing iron and steel. It is
Range		1.5 to 39.0				an essential metal and can be
Average	N	16.3	Ppb	N/A	N/A	absorbed in the diet.
HAA5						
_						
Range		0 to 52.1				By-product of drinking water
Average	N	10.04	Ppb	N/A	N/A	chlorination
HAA6Br						
D		0 += 45 00				Decree deset of decoline contact
Range		0 to 15.93	D. I	N1/A	N1/A	By-product of drinking water
Average	N	2.70	Ppb	N/A	N/A	chlorination
HAA9						
Pango		0 to 66.93				By-product of drinking water
Range Average	N	12.4	Ppb	N/A	N/A	chlorination

Definitions of Key Terms

- <u>Action Level</u> (AL) The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a system must follow.
- <u>Maximum Contaminant Level Goal</u> (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.
- <u>Maximum Contaminant Level</u> (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.
- <u>Maximum Residual Disinfectant Level Goal</u> (MRDLG) The level of 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.
- <u>Maximum Residual Disinfection Level</u> (MRDL) The highest level of a disinfectant allowed in drinking water.
 There is convincing evidence that the addition of a disinfectant is necessary for control of microbial contaminants.
- Non-Detects (ND) The laboratory analysis indicates the contaminant is non-detectable.
- Parts per billion (ppb) or Micrograms per liter (μg/L) The equivalent of 1 minute in 2,000 years or a single penny in \$10,000,000.00
- <u>Parts per million</u> (ppm) or <u>Milligrams per liter</u> (mg/L) The equivalent of 1 minute in 2 years or a single penny in \$10,000.00.
- <u>Picocuries per liter</u> (pCi/L) A measure of the radioactivity in water. The equivalent of one penny in \$10,000,000,000.00 or one penny in ten trillion dollars.
- <u>Part per Trillion</u> (PPT) The equivalent of one penny on \$10,000,000,000.00 or one penny in ten trillion dollars.
- Locational Running Annual Average (LRAA) average for the results of TTHMs and HAA5s

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. Charles County Department of Public Works is responsible for providing high-quality drinking water and removing lead pipes but cannot control the variety of materials used in plumbing components

in your home. You share the responsibility for protecting yourself and your family from the lead in your home plumbing. You can take responsibility by identifying and removing lead materials within your home plumbing and taking steps to reduce your family's risk. Before drinking tap water, flush your pipes for several minutes by running your tap, taking a shower, doing laundry or, a load of dishes. You can also use a filter certified by an American National Standards Institute accredited certifier to reduce lead in drinking water. If you are concerned about lead in your water and wish to have your water tested, contact Charles County Utilities at 301-609-7400. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available at http://www.epa.gov/safewater/lead

MCLs are set at very stringent levels. To understand the possible health effects described for many regulated contaminants, a person would have to drink 2 liters of water every day at the MCL level for a lifetime to have a one-in-a-million chance of experiencing adverse health effects from the contaminant.

The presence of some contaminants in drinking water is unavoidable, but we make every effort to keep your drinking water at or below the levels specified by law as being safe for consumption.

PFAS – or per- and polyfluoroalkyl substances – refers to a large group of more than 4,000 human-made chemicals that have been used since the 1940s in a range of products, including stain- and water-resistant fabrics and carpeting, cleaning products, paints, cookware, food packaging, and fire-fighting foams. These uses of PFAS have led to PFAS entering our environment, where they have been measured by several states in soil, surface water, groundwater, and seafood. Some PFAS can last a long time in the environment and in the human body and can accumulate in the food chain.

Beginning in 2020, the Maryland Department of the Environment (MDE) initiated a PFAS monitoring program. PFOA and PFOS are two of the most prevalent PFAS compounds. PFOA concentrations from samples taken from our water system in 2022 were (ND) Non-Detect in parts per trillion (ppt); PFOS concentrations from samples taken from our water system in 2022 were (ND) Non-Detect in ppt (parts per trillion). In March 2023, EPA announced proposed Maximum Contaminant Levels (MCLs) of 4 ppt for PFOA and 4 ppt for PFOS, and a Group Hazard Index for four additional PFAS compounds. Future regulations would require additional monitoring as well as certain actions for systems above the MCLs. EPA will publish the final MCLs and requirements by the end of 2023 or the beginning of 2024. Additional information about PFAS can be found on the MDE website: mde.maryland.gov/PublicHealth/Pages/PFAS-Landing-Page.aspx

While your drinking water meets EPA's standard for arsenic, it does contain low levels of arsenic. EPA's standard balances the current understanding of arsenic's possible health effects against the costs of removing arsenic from drinking water. EPA continues to research the health effects of low levels of arsenic, which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems.

The staff of the Department of Public Works, Utilities Division, works diligently to provide top-quality water and excellent customer service. All customers are urged to protect our valuable water resources and practice conservation to ensure a sustainable water supply for our community. If you have any questions concerning this report or any aspect of your water utility, please contact Sam Simanovsky, Chief of Operations and Maintenance, at 301-609-7400.