

Annual Drinking Water Quality Report

Hollins Mobile Home Park

INTRODUCTION

This Annual Drinking Water Quality Report for calendar year 2021 is designed to provide you with valuable information about your drinking water quality. We are committed to providing you with a safe and dependable supply of drinking water, and we want you to understand the efforts we make to protect your water supply. The quality of your drinking water meets all state and federal requirements administered by the Virginia Department of Health (VDH).

If you have questions about this report, want additional information about any aspect of your drinking water, or want to know how to participate in decisions that may affect the quality of your drinking water, please contact:

Ms. Autumn Deihl - (757) 875-2392

GENERAL INFORMATION

As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and can pick up substances resulting from the presence of animals or from human activity. Substances (referred to as contaminants) in source water may come from septic systems, discharges from domestic or industrial wastewater treatment facilities, agricultural and farming activities, urban stormwater runoff, residential uses, and many other types of activities. Water from surface sources is treated to make it drinkable while groundwater may or may not have any treatment.

All drinking water, including bottled drinking 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 can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (800-426-4791).

Some people may be more vulnerable to contaminants in drinking water than the general population. Immune-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 microbiological contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

SOURCES AND TREATMENT OF YOUR DRINKING WATER

In 2021, your drinking water was purchased from the Western Virginia Water Authority. The Authority's Carvins Cove Water Treatment Plant is the primary source of your water.

SOURCE WATER ASSESSMENTS

A source water assessment for the Western Virginia Water Authority Treatment Plant determined that the Authority's water source may be susceptible to contaminants at varying concentrations and changing hydrologic, hydraulic, and atmospheric conditions that promote migration of contaminants from land use activities of concern within the assessment area. More specific information may be obtained by contacting the water system representative listed above.

QUALITY OF YOUR DRINKING WATER

Your drinking water is routinely monitored according to Federal and State Regulations for a variety of contaminants. The following tables include results of monitoring for the period of January 1, 2021 through December 31, 2021.

Most of the results in the table are from testing done in 2021. However, the state allows us to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of our data, though accurate, is more than one year old. State Regulations require that we test for bacteriological, lead and copper, chlorine residuals, and disinfection byproduct levels within the park distribution system. Other contaminants are monitored by Western Virginia Water Authority at their Carvins Cove Water Treatment Plant.

DEFINITIONS

In the table and elsewhere in this report you will find many terms and abbreviations you might not be familiar with. The following definitions are provided to help you better understand these terms:

Action Level (AL): The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

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.

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 Residual Disinfectant Level (MRDL): 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.

Maximum Residual Disinfectant Level Goal (MRDLG): 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 contamination.

Nephelometric Turbidity Unit (NTU) - A measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

Non-detects (ND): The substance was not found by laboratory analysis.

Parts per billion (ppb) or Micrograms per liter ($\mu\text{g/L}$): One part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

Parts per million (ppm) or Milligrams per liter (mg/L): One part per million corresponds to one minute in two years or a single penny in \$10,000.

Picocuries per liter (pCi/L): A measure of the radioactivity in water.

Treatment Technique (TT): A required process intended to reduce the level of a contaminant in drinking water.

Carvins Cove Water Treatment Plant Water

Inorganic Contaminants							
Contaminant (Unit)	MCLG	MCL	Level Found	Violation	Sample Date	Typical Source of Contamination	
Barium (ppm)	2	2	0.04	No	2021	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits	
Fluoride (ppm)	4	4	0.76	No	2021	Erosion of natural deposits; Water additives which promote strong teeth.	
Radiological Contaminants							
Contaminant (Unit)	MCLG	MCL	Level Found	Violation	Sample Date	Typical Source of Contamination	
Gross Alpha (pCi/L)	0	15	0.7	No	2017	Erosion of natural deposits.	
Gross Beta (pCi/L)	0	50*	1.7	No	2017	Decay of natural and manmade deposits.	
Combined Radium (pCi/L)	0	5	0.7	No	2017	Erosion of natural deposits.	
Total Organic Carbon							
Contaminant (Unit)	MCLG	MCL	Removal Ratio (Range)	Violation	Sample Date	Typical Source of Contamination	
Total Organic Carbon (ppm)	N/A	TT	NA	No	Monthly	Naturally present in the environment.	
Turbidity ¹							
Contaminant (Unit)	MCLG	MCL	Level Found	Lowest Monthly % < 0.3 NTU	Violation	Sample Date	Typical Source of Contamination
Turbidity (NTU)	N/A	TT ²	0.14	100%	NO	2021	Soil run off.
Unregulated Contaminant							
Contaminant (Unit)	MCLG	MCL	Level Found	Violation	Sample Date	Typical Source of Contamination	
Sodium (ppm)	NA	NA	6	NA	2021	Erosion of natural deposits; de-icing salt runoff; water softeners	

* The MCL for beta particles is 4 mrem/yr. EPA considers 50 pCi/L to be the level of concern for beta particles.

¹ Turbidity is a measure of the cloudiness of the water. We monitor it because it is a good indicator of our water quality and the effectiveness of the filtration process.

² Turbidity TT = 1 NTU Max; ≤ 0.3 NTU in at least 95% of all samples tested.

WATER QUALITY RESULTS

Hollins Mobile Home Park

Disinfection Byproducts						
Contaminant (Unit)	MCLG	MCL	Level Found	Violation	Sample Date	Typical Source of Contamination
Total Trihalomethanes (ppb)	N/A	80	50	No	2022	By-product of chlorine disinfection.
Haloacetic acids (ppb)	N/A	60	26	No	2022	By-product of chlorine disinfection.
Disinfection Residual						
Contaminant (Unit)	MRDLG	MRDL	Level Found (Range)	Violation	Sample Date	Typical Source of Contamination
Chlorine (ppm)	4	4	1.0 (0.70 – 1.0)	No	Monthly	Water additive used to control microbes.
Lead and Copper						
Contaminant (Unit)	MCLG	MCL	Level Found	Exceedance	Sample Date	Typical Source of Contamination
Lead (ppb)	0	AL=15	1.97 No samples exceeded the AL	No	2022	Corrosion of household plumbing systems; Erosion of natural deposits.
Copper (ppm)	1.3	AL=1.3	0.02 No samples exceeded the AL	No	2022	Corrosion of household plumbing systems; Erosion of natural deposits.

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. Aqua 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 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 Safe Drinking Water Hotline or at <http://www.epa.gov/safewater/lead>.

Unregulated Contaminant Monitoring *						
Contaminant (Unit)	MCLG	MCL	Level Found	Exceedance	Sample Date	Typical Source of Contamination
TOC (Raw) (ppb)	N/A	N/A	ND - 2510	No	2019	Naturally present in the environment.

*Unregulated contaminants monitoring helps EPA to determine where certain contaminants occur and whether the Agency should consider regulating those contaminants in the future.

RESULTS INFORMATION

We constantly monitor for various contaminants in the water supply to meet all regulatory requirements. The table lists only those contaminants that had some level of detection. Many other contaminants have been analyzed but were not present or were below the detection limits of the lab equipment.

Maximum Contaminant Levels (MCLs) are set at very stringent levels by the U.S. Environmental Protection Agency. In developing the standards, EPA assumes that the average adult drinks 2 liters of water each day throughout a 70-year life span. EPA generally sets MCLs at levels that will result in no adverse health effects for some contaminants or a one-in-ten-thousand to one-in-a-million chance of having the described health effect for other contaminants.

Sodium - There is presently no established standard for sodium in drinking water. An EPA advisory recommends water containing 30 to 60 mg/L should not be used as drinking water due to aesthetics such as taste and color. Water containing more than 20 mg/L should not be used by persons whose physician has placed them on severely restricted sodium diets.

VIOLATION INFORMATION

Requirement to Have a Written Bacteriological Sample Siting Plan

We were issued a violation September 16, 2022 for failing to have a written bacteriological sample siting plan (BSSP) approved by the Commissioner for collecting total coliform samples. We will work with the Virginia Department of Health in the near future to complete this task.

Failure to provide and maintain a Cross Connection Control Program (CCCP)

We were issued a violation September 16, 2022 for failing to provide and maintain a Cross Connection Control Plan (CCCP) approved by the Commissioner. We will work with the Virginia Department of Health in the near future to complete this task.

This Drinking Water Quality Report was prepared by the Hollins Mobile Home Park with the assistance and approval of the Virginia Department of Health. Please call if you have questions.

Signature: _____

Date: _____