

2023 Annual Drinking Water Quality Report

Town of Exmore
PWSID# 3131210

INTRODUCTION

This Annual Drinking Water Quality Report, covering data for calendar year 2023, is designed to inform you about your drinking water quality. Our goal is to provide 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 must meet state and federal requirements administered by the Virginia Department of Health (VDH).

Este informe contiene información importante acerca de su agua potable. Haga que alguien lo traduzca para usted, o hable con alguien que lo entienda.

For information about how you may participate in decisions regarding your water supply you may contact:

Town of Exmore
3305 Main Street
Exmore, VA 23350
(757)-442-3114

GENERAL INFORMATION

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 human activity.

Contaminants that may be present in source water include:

- Microbial contaminants, such as viruses and bacteria, which 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 stormwater runoff, and septic system;
- Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities

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).

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

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 lifespan. 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.

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

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to lessen the risk of infection by cryptosporidium and other microbiological contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

SOURCE OF YOUR DRINKING WATER AND TREATMENT

The Town of Exmore system receives its water from 2 wells. Your water is treated with chlorine to preserve water quality.

The Virginia Department of Health conducted a Source Water Assessment of the Town of Exmore Waterworks in 2018. The wells were determined to be of low susceptibility to contamination using the criteria developed by the state in its approved Source Water Assessment Program. The assessment report consists of maps showing the Source Water Assessment area, an inventory of known Land Use Activities utilized at Land Use Activity Sites in Zone 1, Susceptibility Explanation Chart, and Definitions of Key Terms. The report is available by contacting your waterworks system owner/operator at the phone number or address included in the CCR.

WATER QUALITY RESULTS

Contaminants in your drinking water are routinely monitored according to Federal and State regulations. 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, may be more than one year old. Only the most recent sample results from the prescribed period are reported. 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.

DEFINITIONS

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:

- **Non-detects (ND)** – Lab analysis indicates that the contaminant is not present.
- **Parts per million (ppm) or milligrams per liter (mg/l)** – One part per million corresponds to one minute in 2 years.
- **Parts per billion (ppb) or micrograms per liter (µg/l)** – One part per billion corresponds to one second in nearly 32 years.
- **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 contaminants.
- **Treatment Technique (TT)** – A required process intended to reduce the level of a contaminant in drinking water.
- **Level 1 Assessment** – An evaluation to identify the possible presence of sanitary defects, defects in distribution system coliform monitoring practices, and (when possible) the likely reason that the system triggered the assessment.
- **Level 2 Assessment** – An evaluation to identify the possible presence of sanitary defects, defects in distribution system coliform monitoring practices, and (when possible) the likely reason that the system triggered the assessment in a more comprehensive investigation than a Level 1 assessment.
- **Sanitary Defect** – A defect that could provide a pathway of entry for microbial contamination into the distribution system or that is indicative of a failure or imminent failure in a barrier that is already in place.

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Wells 3, 4 (Entry Point 3) WATER QUALITY RESULTS (Detected Contaminants Only)

Contaminant (units)	MCLG	MCL	Level Found	Range	Violation	Date of Sample	Typical Source of Contamination
Gross Alpha (pCi/L)	0	15	0.5	NA	No	2021	Erosion of natural and man-made deposits
Gross Beta (pCi/L)	0	50*	7.4**	5.2-7.4	No	2021	Erosion of natural deposits

*The MCL for Gross Beta is 4 mrem/year however EPA considers 50 pCi/L to be the level of concern.

**Because the beta particle results were below 50 pCi/L, no testing for individual beta particle constituents was required

DISINFECTION AND DISINFECTION BY-PRODUCTS

CONTAMINANT (units)	MCLG or MRDLG	MCL Or MRDL	Level Detected	Range	Date of Sample	Violation	Typical Source of Contamination
Chlorine (ppm)	4	4	0.04	0.01 – 0.07	2023	No	Water additive used to control microbes

LEAD AND COPPER CONTAMINANTS

CONTAMINANT (units)	MCLG	Action Level	Level Detected	Range	# of samples above AL	Date of Sample	Typical Source of Contamination
Copper (ppm)	1.3	1.3	0.03	ND – 0.074	0	2023	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching of wood preservatives.
Lead (ppb)	0	15	0	NA	0	2023	Corrosion of household plumbing; Erosion of natural deposits

TOTAL COLIFORM BACTERIA MONITORING RESULTS

MCL	MCLG	Number of Positives	Violation	Sample Dates	Major Source of Contamination
1	0	1 of 24	No	2023	Naturally present in the environment

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A note about lead in drinking water: 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. We are 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>.

A note about sodium in drinking water: The (2021) concentration of sodium in your drinking water was 14.6 mg/L. There is no established standard for sodium in drinking water. Water containing more than 270 mg/L should not be used as drinking water by persons whose physician has placed them on a moderately restricted sodium diet. Water containing more than 20 mg/L should not be used as drinking water by persons whose physician has placed them on a severely restricted sodium diet.

VIOLATIONS

The system had a violation in 2023 for failing to collect a raw source water sample following the positive sample in October. This sample has been collected, the sample was negative for total coliforms, and we have returned to compliance.

H Taylor Dukes III Public Utilities Director