

IMPORTANT NOTICE

Consumer Confidence Report

GLENN RIDDLE FARM SERVICE AREA 2023 ANNUAL DRINKING WATER QUALITY REPORT PWSID # 023-0019

INTRODUCTION

The Water & Wastewater Division of the Worcester County Department of Public Works is responsible for the provision of the safest possible drinking water to its customers in the Glenn Riddle Farm Service Area. During the period from January 1 to December 31, 2022, we conducted tests for drinking water contaminants and tested at least once every month for Total Coliform and Fecal Coliform Bacteria as required by Federal and State law. We only detected a few contaminants and they were found to be significantly below established standards.

This brochure is a snapshot of the quality of the water that was provided to you in 2022. Included are details about the source of your water, what your water contains, and how your water compares with the standards established by the Environmental Protection Agency (EPA) and the Maryland Department of the Environment (MDE). If you have any questions about this report or need additional information concerning the drinking water being supplied to you, please call Gary Serman at 410-641-5251, extension 2415, between 7:30 a.m. and 4:00 p.m. any weekday.

OUR WATER IS SAFE, HOWEVER

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer who are 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 risks of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

SOURCE OF WATER

Your water comes from two wells sunk at 380 and 390 feet in an underground source of water called the Manokin Aquifer. Both wells are located near the water plant on Grey's Corner Road, on land owned by the County. The well site is inspected daily by State licensed County personnel. After the water comes out of the well, we adjust its pH and disinfect it to protect you against microbial contaminants. Filtration is used to remove iron from the water. During 2022 the Riddle Farm community was supplied with water from the Ocean Pines water system. A source water assessment was performed by MDE and is available on their web site; www.mde.maryland.gov

INFORMATION

While we do not have regularly scheduled meetings with your community, our personnel are available to answer any questions that you may have or to provide information concerning the operation of the water treatment system. To contact us, you can call Gary Serman at 410-641-5251, extension 2415, or you can write to us at 1000 Shore Lane, Berlin, Maryland 21811.

LEAD

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. Worcester County 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>.

GENERAL

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 the water before we treat it include:

- *Microbial contaminants*, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations and wild life.
- *Inorganic contaminants*, such as salts and metals, which can be naturally-occurring or result from urban stormwater 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.
- *Radioactive contaminants*, which are naturally occurring or be the result of oil and gas production and mining activities.
- *Organic chemical contaminants*, including synthetic and volatile chemicals, which are by-products of industrial processes and petroleum production, and can, also come from gas stations, urban stormwater runoff, and septic systems.

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 regulations establish limits for contaminants in bottled water, which must provide the same protection for public health.

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 EPA's Safe Drinking Water Hotline (800-426-4791).

OCEAN PINES WELLS

PFAS

PFAS –or per- and polyfluoroalkyl substances – refers to a large group of more than 4000 human- made chemicals that have been used since the 1940’s 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 ranged from ND parts per trillion (ppt)– 2.57 ppt; PFOS concentrations ranged from ND ppt – 1.72 ppt,. 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 or Hazard Index. EPA will publish the final MCLs and requirements by the end of 2023 or beginning of 2024. Additional information about PFAS can be found on the MDE website:

mde.maryland.gov/PublicHealth/Pages/PFAS-Landing-Page.aspx

RIDDLE FARM WELLS

PFAS

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RIDDLE FARM WATER QUALITY DATA

The table below lists all the drinking water contaminants that we detected during the 2022 calendar year. The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk. Unless otherwise noted, the data presented in this table is from testing done January 1-December 31, 2022. The state requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Some of the data, though representative of the water quality, is more than one year old.

Terms & abbreviations used below:

- **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 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.
- **Action Level (AL):** the concentration of a contaminant which, when exceeded, triggers treatment or other requirements which a water system must follow.
- **Action Level Goal:** The level of a contaminant in drinking water below which there is no known or expected risk to health. ALGs allow for a margin of safety.
- **Maximum residual disinfectant level goal or 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.
- **Maximum residual disinfectant level or 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.
- **Avg:** Regulatory compliance with some MCLs are based on running average of monthly samples.
- **ppt:** parts per trillion or one ounce in 7,350,000,000 gallons of water, **ppb:** parts per billion or micrograms per liter, or one ounce in 7,350,000 gallons of water • **ppm:** parts per million or milligrams per liter, or one ounce in 7,350 gallons of water • **pCi/l:** picocuries per liter (a measure of radiation)
- **na:** not applicable.
- **ND:** non detected
- **Treatment Technique or TT:** A required process intended to reduce the level of a contaminant in drinking water.
- **Level 1 Assessment:** A level 1 assessment is a 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:** A level 2 assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why E. coli MCL violation has occurred and/ or why total coliform bacteria have been found in our water system on multiple occasions.

TEST RESULTS OF REGULATED CONTAMINANTS DETECTED Riddle Farm Water Plant

LEAD AND COPPER	Date sampled	MCLG	Action Level (AL)	90 th Percentile	# Sites over AL	Units	Violation	Likely source of contamination.
Copper	2021	1.3	1.3	0.098	0	ppm	N	Erosion of natural deposits, leaching from wood preservatives, or corrosion of household plumbing systems.
Lead	2021	0	15	2.0	0	ppb	N	Erosion of natural deposits, or corrosion of household plumbing systems

INORGANIC CONTAMINANTS	Collection date	Highest level detected	Range of levels detected	MCLG	MCL	Units	Violation	LIKELY SOURCE OF CONTAMINATION
Fluoride	2022	0.5	0.5 – 0.5	4	4	ppm	N	Erosion of natural deposits
Barium	2022	0.011	0.011-0.011	2	2	ppm	N	Discharge from drilling waste; discharge from metal refineries; erosion of natural deposits.
Nitrate * (measured as nitrogen)	2022	1	0.77- 0.77	10	10	ppm	N	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits.
DISINFECTANTS AND DISINFECTION BY-PRODUCTS								
Haloacetic Acids (HAA5)	2022	1	ND – 2.1	No goal for the total	60	ppb	N	By-product of drinking water disinfection.
Total Trihalomethanes (TTHM)	2022	8	5.4 – 11.3	No goal for the total	80	ppb	N	By-product of drinking water disinfection
Chlorine	2022	0.7	0.6 – 0.7	MRDLG=4	MRDL=4	ppm	N	Water additive used to control microbes.
PER- and POLYFLUOROALKYL SUBSTANCES (PFAS)	Collection date	Highest level detected	Range of levels detected	Health advisory level	Proposed MCL	Units	Violation	LIKELY SOURCE OF CONTAMINATION
PFOA	2022	ND	ND-ND	70	4	ppt	N	Manufacture of stain and water resistant fabrics' carpeting, cleaning products, food packaging and firefighting foam.
PFOS	2022	ND	ND-ND	70	4	ppt	N	Manufacture of stain and water resistant fabrics' carpeting, cleaning products, food packaging and firefighting foam.

* 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 advice from your health care Provider