

# Town of La Plata 2021 Drinking Water Quality Report



PWSID: 008-0025

## Important Information Concerning Your Drinking Water

We are pleased to present to you the Annual Water Quality Report for 2021. This report is designed to inform you about the water quality and services we deliver to you every day. The Town of La Plata operates the water treatment facility and prepared this report in conjunction with the Maryland Environmental Service.

The Environmental Protection Agency (EPA) regulates Public Water Systems and the contaminants found in water through the implementation of the Safe Drinking Water Act (SDWA). The SDWA sets regulations and guidelines for how public water systems operate and identifies several hundred drinking water contaminants, establishes monitoring frequencies and limitations. The Maryland Department of the Environment (MDE) is responsible for the enforcement of the SDWA and routinely conducts sanitary surveys, inspections and monitoring for all public water systems. The Town of La Plata provides safe dependable operations of the water system and is dedicated to consistently providing high quality drinking water that meets or exceeds the SDWA standards.

If you have any questions about this report or have questions concerning your water utility, please contact **Brent Manuel at 301-934-8421, e-mail [bmanuel@townoflaplata.org](mailto:bmanuel@townoflaplata.org)** or mail at Town of La Plata, P.O. Box 2268, 305 Queen Annes Street, La Plata Maryland 20646

### For More Information:

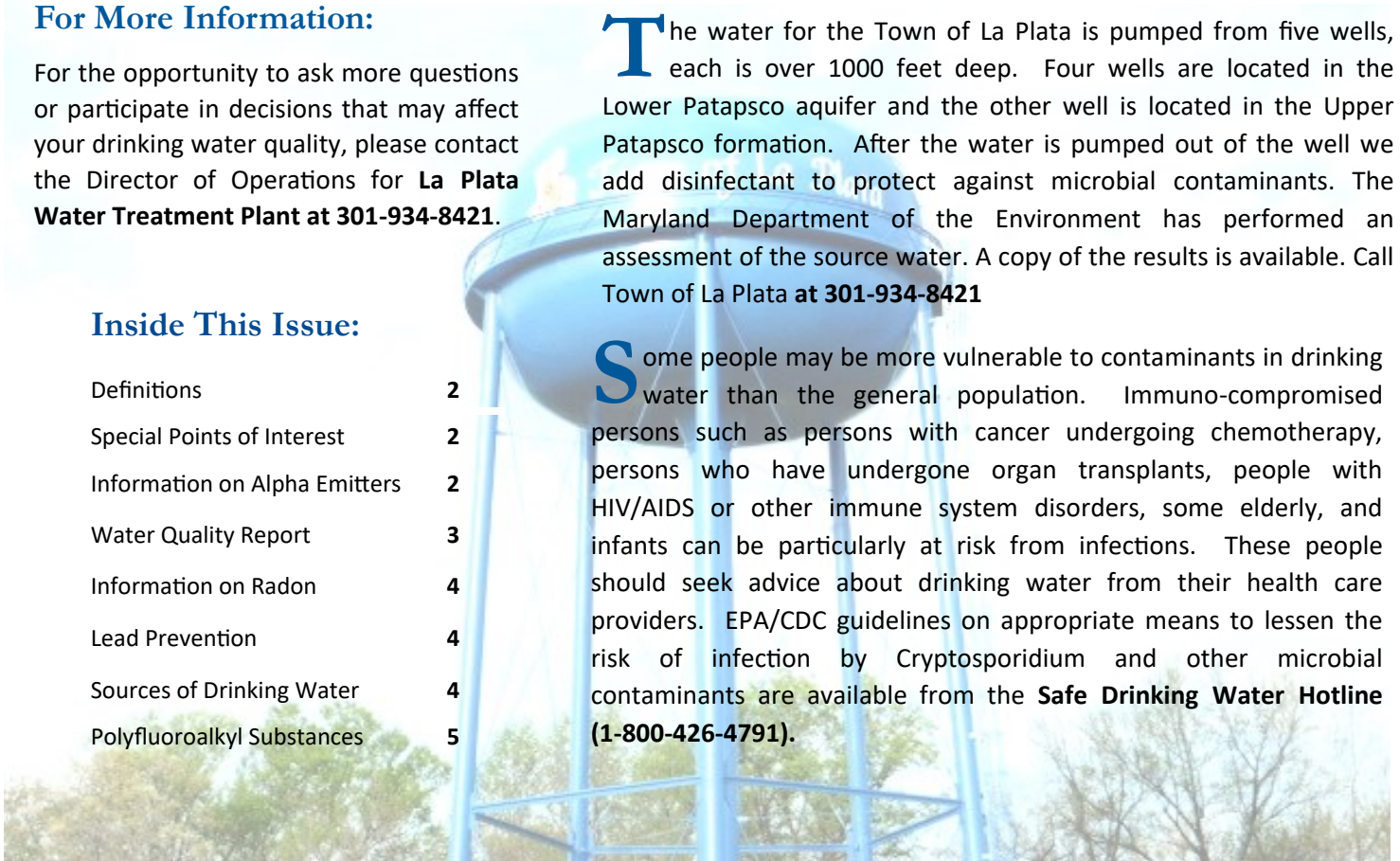
For the opportunity to ask more questions or participate in decisions that may affect your drinking water quality, please contact the Director of Operations for **La Plata Water Treatment Plant at 301-934-8421.**

**T**he water for the Town of La Plata is pumped from five wells, each is over 1000 feet deep. Four wells are located in the Lower Patapsco aquifer and the other well is located in the Upper Patapsco formation. After the water is pumped out of the well we add disinfectant to protect against microbial contaminants. The Maryland Department of the Environment has performed an assessment of the source water. A copy of the results is available. Call Town of La Plata at **301-934-8421**

### Inside This Issue:

Definitions	2
Special Points of Interest	2
Information on Alpha Emitters	2
Water Quality Report	3
Information on Radon	4
Lead Prevention	4
Sources of Drinking Water	4
Polyfluoroalkyl Substances	5

**S**ome 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 to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the **Safe Drinking Water Hotline (1-800-426-4791).**



# Town of La Plata Treated Water Quality Report 2021

## Definitions:

- ◆ **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** - The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
- ◆ **Treatment Technique (TT)** - A required process intended to reduce the level of a contaminant in drinking water.
- ◆ **Turbidity** - Relates to a condition where suspended particles are present in the water. Turbidity measurements are a way to describe the level of “cloudiness” of the water.
- ◆ **NTU - Nephelometric Turbidity Units.** Units of measurement used to report the level of turbidity or “cloudiness” in the water.
- ◆ **pCi/l** - Picocuries per liter. A measure of radiation.
- ◆ **ppb** - Parts per billion or micrograms per liter.
- ◆ **ppm** - Parts per million or milligrams per liter.
- ◆ **ppt** - Parts per trillion or nanograms per liter.

## Special points of interest:

The Town of La Plata Drinking Water met all of the State and Federal requirements. Drinking Water, including bottled water, may reasonably be expected to contain at least small amounts of some compounds. The presence of these compounds 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’s) Safe Drinking Water Act Hotline (1-800-426-4791)**.

## Important information about Gross Alpha Emitters:

Alpha emitters are naturally occurring radiations in soil, air and water. These emitters generally occur when certain elements decay or break down in the environment. The emitters enter drinking water through various methods including the erosion of natural deposits. There are no immediate health risks from consuming water that contains gross alpha, however some people who drink water containing alpha emitters in excess of the MCL over many years may have an increased risk of getting cancer. Currently, the highest level of gross alpha detected is 7.5 pCi/l which is below the 15 pCi/l MCL.

**T**he following table lists all the drinking water contaminants that were detected during the 2021 calendar year. The presence of these compounds in the water does not necessarily indicate that the water poses a health risk. Unless otherwise noted, the data presented in the table is from testing done January 1 – December 31, 2021.

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.

# Town of La Plata Treated Water Quality Report 2021

Contaminant	Highest Level Allowed EPAs MCL	Highest Level Detected	Ideal Goal (EPA's MCLG)
<b>Regulated at the Treatment Plants</b>			
Fluoride (2020 & 2021 Testing)	4000 ppb	900 ppb (Range: 0 to 900 ppb)	4000 ppb
Source: Erosion of natural deposits and discharge from fertilizer and aluminum factories			
Chromium (2019 & 2021 Testing)	100 ppb	2.3 ppb (Range: 0.0 to 2.3 ppb)	100 ppb
Source: Erosion of natural deposits, discharge from steel/pulp mills			
Barium (2019 & 2021 Testing)	2000 ppb	46 ppb (Range: 0.0 to 46 ppb)	2000 ppb
Source: Erosion of natural deposits, discharge from metal refineries			
Gross Alpha (2021 Testing)	15 pCi/l	7.5 pCi/l	0 pCi/l
Source: Erosion of natural deposits			
Combine Radium (226 & 228) (2021 Testing)	5 pCi/l	0.2 pCi/l*	N/A
Sources: Erosion of natural deposits			
<b>Regulated in the Distribution</b>			
Chlorine Water additive used to control microbes *Annual running average	4 ppm	1.20 ppm* (Range: 1.16 to 1.20 ppm)	4 ppm
Total Trihalomethanes (TTHM) (2021 Testing)	80 ppb	45.1 ppb	n/a
Halacetic Acids (HAA5) (2021 Testing)	60 ppb	13.1 ppb	n/a
Typical Source of Contamination: By-product of drinking water disinfection			
<b>Regulated in the Distribution</b>			
	Action Level	90th Percentile	Ideal Goal
Copper (2020 Testing)	1300 ppb	220 ppb	1300 ppb
Typical sources of contaminant: corrosion of household plumbing			
Lead (2020 Testing)	15 ppb	0.0 ppb	0 ppb
Source: Corrosion of household plumbing fixtures and systems			

## Contaminants That May Be Present in Source Water:

Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife. Pesticides and Herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses. 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. 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 systems. Radioactive Contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.

# Sources of Drinking Water

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.

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



## Lead Prevention

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. The Town of La Plata 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>.

## Advanced technology available to consumers

The Town of La Plata has invested in several innovative technologies in order to help conserve our natural resources and to help meet future needs. An Automated Metering Infrastructure (AMI) was installed in August 2012 to automate the Town's water meter reading and billing system. This system allows residents to access their account information over the internet and set alerts to notify them of potential leaks. In addition, the Town now has the ability to detect leaks in system mains to reduce major problems of leaking pipes under Town roadways. To access their usage data, utility customers can create an online account at [laplatamd.watersmart.com](http://laplatamd.watersmart.com).

## Radon

The result of the March 2014 radon sample was 265 pCi/l. Radon is a radioactive gas that you cannot see, taste, or smell. It is found throughout the U.S. Radon can move up through the ground and into a home through cracks and holes in the foundation. Radon can build up to high levels in all types of homes. Radon can also get into indoor air when released from tap water from showering, washing dishes, and other household activities. Compared to radon entering the home through soil, radon entering the home through tap water will in most cases be a small source of radon in indoor air. Radon is a known human carcinogen. Breathing air containing radon can lead to lung cancer. Drinking water containing radon may also cause increased risk of stomach cancer. If you are concerned about radon in your home, test the air in your home. Testing is inexpensive and easy. There are simple ways to fix a radon problem that are not too costly. For additional information, call your state radon program or call EPA's Radon Hotline (800-SOS-RADON).

*If you have any questions about this report or your drinking water, please call Brent Manuel at 301-934-8421 or email your request to [bmanuel@townoflaplata.org](mailto:bmanuel@townoflaplata.org).*

# Town of La Plata Treated Water Quality Report 2021

## Polyfluoroalkyl Substances

PFAS – short for 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.

Currently, there are no federal regulations (i.e. Maximum Contaminant Levels (MCLs)) for PFAS in drinking water. However, the U.S. Environmental Protection Agency (EPA) has issued a Health Advisory Level (HAL) of 70 parts per trillion (ppt) for the sum of PFOA and PFOS concentrations in drinking water. While not an enforceable regulatory standard, when followed, the EPA HAL does provide drinking water customers, even the most sensitive populations, with a margin of protection from lifetime exposure to PFOA and PFOS in drinking water. Beginning in 2020, the Maryland Department of the Environment (MDE) initiated a PFAS monitoring program. *The combined PFOA and PFAS concentration from samples taken from your water system was non-detect or 0 ppt.* MDE anticipates that EPA will establish an MCL for PFOA and PFOS in the near future. This would entail additional monitoring. Additional information about PFAS can be found on the MDE website: [mde.maryland.gov](http://mde.maryland.gov)".

## Water Conservation

Did you know that the average U.S. household uses approximately 400 gallons of water per day or 100 gallons per person per day? Luckily, there are many low-cost and no-cost ways to conserve water. Small changes can make a big difference—try one today and soon it will become second nature.

- ◆ Check for water leaks by the reading your water meter before and after a two hour period when no water is being used in your home. If the reading changes then there is probably a leak in your home.
- ◆ Take a shower! Filling up a bathtub can use up to 70 gallons of water while a shower generally uses 10 to 25 gallons. Taking shorter showers saves even more water.
- ◆ Make sure your washing machine and dishwasher are fully loaded before running.
- ◆ Are you in the market for a new water fixture such as a faucet, showerhead or toilet? Consider a WaterSense labeled fixture and reduce your water use by 30% percent or more versus standard flow fixtures. Visit [www.epa.gov/watersense](http://www.epa.gov/watersense) for more information on water efficiency products and methods.

Source: <http://www.epa.gov/watersense> & <http://eartheasy.com>

