

2022 ANNUAL DRINKING WATER QUALITY REPORT
Town of Astatula
PWS ID: 3355000

THIS REPORT IS BEING MAILED TO EACH CUSTOMER.

We are pleased to present to you this year's Annual Water Quality Report. This report is designed to inform you about the quality water and services we deliver to you every day. Our constant goal is to provide you with a dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water. Our water is obtained from ground water sources and is chlorinated for disinfection purposes.

Our source water is pumped from the Floridan Aquifer, one of the world's most protected sources. The water is treated with chlorine to assure disinfection. The Florida Department of Environmental Protection (FDEP) performed a Source Water Assessment (SWAPP) in 2022 to determine the susceptibility of our water supply to contamination. The analysis was completed to tell how likely it is that our water could become contaminated from landfills, underground or above ground storage tanks, and wastewater disposal areas. A 1000 foot radius circle around each well was used and it was determined by the FDEP that there was no potential sources or contamination. For more information regarding the assessment, please visit the DEP website at <http://www.dep.state.fl.us/swapp>

This report shows our water quality results and what they mean.

If you have any questions about this report or concerning your water utility, please contact Plant Technicians at (352)787-2944. We encourage our valued customers to be informed about their water utility.

TOWN OF ASTATULA routinely monitors for contaminants in your drinking water according to Federal and State laws, rules, and regulations. Except where indicated otherwise, this report is based on the results of our monitoring for the period of January 1st to December 31st 2022.

“As authorized and approved by EPA, the state has reduced monitoring requirements for certain contaminants to less often than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Some of our data (e.g., for organic contaminants), though representative, is more than a year old.”

In the table shown, you may find unfamiliar terms and abbreviations. To help you better understand these terms, we have provided the following definitions:

Maximum Contaminant Level or MCL: The highest level of 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 or 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.

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

Picocuries Per Liter (pCi/L): Measure of the radioactivity in water.

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

Maximum Residual Disinfectant Level (MRDL): The highest level of 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.

Not Applicable (N/A): Does not apply.

“**ND**” means not detected and indicates that the substance was not found by laboratory analysis.

Parts Per Million (ppm) or Milligrams Per Liter (MG/L): One part by weight of analyte to 1 million parts by weight of the water sample.

Parts Per Billion (ppb) or Micrograms Per Liter (ug/l): One part by weight of analyte to 1 billion parts by weight of the water sample.

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. TOWN OF ASTATULA 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>.

“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 materials, and can pick up substances resulting from the presence of animals or from human activity.”

Contaminants that may be present in source water include:

- A. Microbial contaminants, such as viruses and bacteria which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- B. 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.
- C. Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water run-off and residential uses.
- D. 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 storm water runoff, and septic systems.
- E. Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities.

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. The Food and Drug Administration (FDA) 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 the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 1-800-426-4791.

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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 healthcare 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.
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Please call our office if you have any questions.

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Water Quality Test Results

Contaminant and Unit of Measurement	Dates of sampling (mo./yr.)	MCL Violation Y/N	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination
<u>Inorganic Contaminants</u>							
Barium (ppm)	9/2022	N	0.0098	N/A	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Sodium (ppm)	6-9/2022	N	12.3 - 15	N/A	N/A	160	Salt water intrusion, leaching from soil
Fluoride (ppm)	9/2022	N	0.12	N/A	4	4.0	Erosion of natural deposits; discharge from fertilizer and aluminum factories. Water additive which promotes strong teeth when at the optimum level of 0.7 ppm

<u>Stage 2 Disinfectants and Disinfection By-Products</u>							
Contaminant and Unit of Measurement	Dates of sampling (mo./yr.)	MCL Violation Y/N	Level Detected	Range of Results	MCLG or MRDLG	MCL or MRDL	Likely Source of Contamination
Chlorine (ppm)	1-12/2022	N	0.96	0.8-1.9	MRDLG = 4	MRDL = 4.0	Water additive used to control microbes
Total Trihalomethanes (TTHM) (ppb)	9, 12/2022	N	30.09	28.72-30.09	N/A	MCL = 80	By-product of drinking water disinfection
Haloacetic Acids (HAA5) (ppb)	9, 12/2022	N	64.26	8.70-64.26	N/A	MCL = 60	By-product of drinking water disinfection

Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys or central nervous system, and may have an increased risk of getting cancer. Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer.

We have taken the required samples on 12/6/2022. The test results for TTHM HAA5 are in compliance with the Department of Environmental Protection. We collect at two different sites, one of the sites had a slightly elevated HAA5 result so we immediately recollected for analysis and now all samples are below the MCL for Drinking Water Standards, but due to elevated result on the HAA5 we are now required to sample on a Quarterly basis for at least four consecutive quarters or until all results are below the MCL

Contaminant and Unit of Measurement	Dates of sampling (mo./yr.)	AL Violation Y/N	90th Percentile Result	No. of sampling sites exceeding the AL	MCLG	AL (Action Level)	Likely Source of Contamination
<u>Lead and Copper (Tap Water)</u>							
Copper (tap water) (ppm)	7/2022	N	0.070	0	0	1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
	12/2022		0.0855				
Lead (tap water) (ppb)	12/2022	N	0.0010U	1	0	15	Corrosion of household plumbing systems, erosions of natural deposits

Lead in drinking water is rarely the sole cause of lead poisoning, but it can add to a person's total lead exposure. All potential sources of lead in the household should be identified and removed, replaced or reduced.

Infants and children who drink water containing lead in excess of the action level could experience delays in their physical or mental development. Children could show slight deficits in attention span and learning abilities. Adults who drink this water over many years could develop kidney problems or high blood pressure.

We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether our drinking water meets health standards. During the third quarter, sampling results submitted from contracted independent laboratory Eurofins (formerly Flowers Labs) were found to be out of compliance due to lab methodology errors. Due to no fault of Plant Technicians, the operator or the Town of Astatula, DEP rejected the results and informed us to resample due to lab errors. We have done everything within our power to comply with the rules and regulations per DEP and will continue to do so.

During an oversite at the busy time of the year, the results for lead/copper were submitted late to DEP as required by the Safe Drinking Water Standards. There is no impact on the quality of water our customers receive and post no risk to human health. We have established a new system where samples will be collected earlier in the year to ensure all reporting requirements are met.