

## ADDITIONAL HEALTH 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 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 stormwater 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 stormwater runoff, 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 stormwater 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.

## HOW TO REACH US

If you have any questions about this report or concerning your water utility, please contact Andrew Marsian at (407) 263-2378 or visit our website at [www.longwoodfl.org](http://www.longwoodfl.org). The City of Longwood office is open from 8:00 am until 5:00 pm, Monday through Friday.

Customers interested in becoming involved in decisions that may affect the quality of their drinking water may attend regularly scheduled meetings of the City Commission. These meetings occur on the first and third Monday of each month at the City Hall Commission Chambers located at 175 West Warren Avenue.

## SOURCE WATER ASSESSMENT PLAN

The Florida Department of Environmental Protection (FDEP) performed a Source Water Assessment on our system in 2018. The assessment was conducted to provide information about any potential sources of contamination in the vicinity of our wells. There are 5 potential sources of contamination identified for this system with low to moderate susceptibility levels. The assessment results are available on the FDEP Source Water Assessment and Protection Program website at [www.dep.state.fl.us/swapp](http://www.dep.state.fl.us/swapp).

## FOR CUSTOMERS WITH SPECIAL HEALTH CONCERNS

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

## HOW TO READ THE TABLE

The terms used in the water quality summary table and in other parts of this report are defined below.

**Action level (AL)** – the concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.

**Initial Distribution System Evaluation (IDSE)** – an important part of the Stage 2 Disinfection Byproducts Rule (DBPR). The IDSE is a one-time study conducted by water systems to identify distribution system locations with high concentrations of trihalomethanes (THMs) and haloacetic acids (HAAs). Water systems will use results from the IDSE, in conjunction with their Stage 1 DBPR compliance monitoring data, to select compliance monitoring locations for the Stage 2 DBPR.

**Maximum contaminant level or 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 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.

**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.

**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.

**N/A** – not applicable

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

**ppm** – parts per million or milligrams per liter is one part by weight of analyte to one million parts by weight of the water sample.

**ppb** – parts per billion or micrograms per liter is one part by weight of analyte to one billion parts by weight of the water sample.

**pCi/l** – picocuries per liter is a measure of the radioactivity in water

# CITY OF LONGWOOD

## 2018 ANNUAL DRINKING WATER QUALITY REPORT

*Este informe continene información muy importante sobre su agua beber. Tradúscalo ó hable con un amigo quien lo entienda bien.*

We're pleased to present to you this year's Annual Drinking Water Quality Report. This report is designed to inform you about the quality water services we deliver to you every day. Our constant goal is to provide you with a safe and 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. If you have any questions or concerns about the information provided in this report, please feel free to call any of the numbers listed below.

## WHERE YOUR WATER COMES FROM

The water source is ground water which is withdrawn from five wells at a depth of 300 to 500 feet in the City of Longwood. The water is disinfected to destroy microbes and fluoridated for dental health purposes prior to delivery to customers.

## HOW WE ENSURE YOUR DRINKING WATER IS SAFE

The City of Longwood 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 1 to December 31, 2018. 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 are more than one year old but are based on the most recent water analyses performed and are representative of the water quality.

**2018 Water Quality Summary Table – PWS ID NO. 3590202**

<b>Radiological Contaminants</b>							
<b>Contaminant and Unit of Measurement</b>	<b>Dates of sampling (mo/yr)</b>	<b>MCL Violation Y/N</b>	<b>Level Detected<sup>A</sup></b>	<b>Range of Results</b>	<b>MCLG</b>	<b>MCL</b>	<b>Likely Source of Contamination</b>
Alpha emitters (pCi/L)	4/14	N	3.4	1.4 – 3.4	0	15	Erosion of natural deposits
Radium 226 + 228 or combined radium (pCi/L)	4/14	N	1.6	1.2 – 1.6	0	5	Erosion of natural deposits

<b>Inorganic Contaminants</b>							
<b>Contaminant and Unit of Measurement</b>	<b>Dates of sampling (mo/yr)</b>	<b>MCL Violation Y/N</b>	<b>Level Detected<sup>A</sup></b>	<b>Range of Results</b>	<b>MCLG</b>	<b>MCL</b>	<b>Likely Source of Contamination</b>
Barium (ppm)	4/17	N	0.0077	0.0062 – 0.0077	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Fluoride (ppm)	1/1/18-12/31/18	N	0.79	0.59-0.82	4	4	Erosion of natural deposits; discharge from fertilizer and aluminum factories. Water additive which promotes strong teeth when at optimum levels of 0.7.
Sodium (ppm)	4/17	N	18	14 – 18	N/A	160	Salt water intrusion, leaching from soil

<b>Stage 1 Disinfectants and Disinfection By-Products</b>							
<b>Contaminant and Unit of Measurement</b>	<b>Dates of sampling (mo/yr)</b>	<b>MCL Violation Y/N</b>	<b>Level Detected<sup>A</sup></b>	<b>Range of Results</b>	<b>MCLG</b>	<b>MCL</b>	<b>Likely Source of Contamination</b>
Chlorine (ppm)	1/1/18 - 12/31/18	N	2.2	0.3 – 2.2	MRDLG = 4	MRDL = 4.0	Water additive used to control microbes

Stage 2 Disinfectants and Disinfection By-Products							
Contaminant and Unit of Measurement	Dates of sampling (mo/yr)	MCL Violation Y/N	Level Detected <sup>A</sup>	Range of Results	MCLG	MCL	Likely Source of Contamination
HAA5s (Haloacetic acids) (five) (ppb)	1/1/18 - 12/31/18	N	31.38	21.50 - 34.39	N/A	60	By-product of drinking water disinfection
TTHMs (Total trihalomethanes) (ppb)	1/1/18 - 12/31/18	N	66.32 65.075	36.40 – 85.32	N/A	80	By-product of drinking water disinfection

Lead and Copper (Tap Water)							
Contaminant and Unit of Measurement	Dates of sampling (mo./yr.)	AL Violation Y/N	90 <sup>th</sup> Percentile Result	No. of sampling sites exceeding AL	MCLG	AL (Action Level)	Likely Source of Contamination
Copper (tap water) (ppm)	8/17	N	0.14	0 sites > AL	1.3	AL = 1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

Unregulated Contaminants				
Contaminant and Unit of Measurement	Dates of sampling (mo/yr)	Level Detected (average)	Range	Likely Source of Contamination
Bromide (ppm)	08/18	0.024	0.018 – 0.029	Unknown
HAA5 (Haloacetic acids)(five)(ppb)	08/18	21.76	18.457 – 23.349	By-product of drinking water disinfection
HAA6Br (ppb)	08/18	9.100	8.583 – 9.942	By-product of drinking water disinfection
HAA9s (Haloacetic acids)(nine)(ppb)	08/18	30.11	26.9 – 31.84	By-product of drinking water disinfection
Manganese (ppb)	08/18	1.93	1.845 – 2.018	Natural occurrence from soil leaching
Total Organic Carbon (ppm)	08/18	1.30	1.25 – 1.40	Naturally present in the environment

**TABLE NOTES:**

A. Results in the level detected column for radiological and inorganic contaminants are the highest detected level at any sampling point. The result in the level detected column for chlorine, HAA5s, and TTHMs is the highest running annual average, computed quarterly, of the quarterly averages of all samples taken during the year. The range of results is the results (lowest to highest) for the individual Stage 2 samples.

*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. City of Longwood 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>*

*Two samples during 2018 (Raven Ave Lift Station, May; and 900 North St., May) had a TTHM result of 84.57 and 85.32 ppb, respectively, which exceeds the MCL of 80 ppb. However, the system did not incur an MCL violation, because all annual average results at all sites were at or below the MCL. 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 systems, and may have an increased risk of getting cancer.*

*We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not our drinking water meets health standards. We sample for disinfection by-products quarterly. During the 3<sup>rd</sup> week of November 2018 we did not sample for disinfection by-products within the 7-day window specified by the FDEP, and therefore cannot be sure of the quality of our drinking water during that time. We are required to sample during the week specified on our sampling plan. We DID collect samples during the 4<sup>th</sup> quarter 2018, however, they were collected 5 days after our designated week. The results of all samples collected were satisfactory, and we are in compliance with State Rules.*

*The City of Longwood has been monitoring for Total Organic Carbon (TOC) and/or Bromide indicators as part of a study to help the U.S. Environmental Protection Agency (EPA) determine the occurrence in drinking water of unregulated contaminants (UC). At present, no health standards (for example, maximum contaminant levels) have been established for UC. However, we are required to publish the analytical results of our UC monitoring in our annual water quality report. If you would like more information on the EPA's Unregulated Contaminants Monitoring Rule (UCMR), please call the Safe Drinking Water Hotline at (800) 4260-4791.*