

2018 Water Quality Report

Ellore Water System

System #3810003

We're pleased to provide you with this year's Water Quality Report. We want to keep you informed about the water and services we have delivered to you over the past year. Our goal is to provide to you a safe and dependable supply of drinking water. We are committed to ensuring the quality of your water. The source of our water is ground water produced from two active wells.

A Source Water Assessment Plan has been prepared for our system. If you have any questions about this report or concerning your water utility, please contact Mannie Barnes at (803) 897-2821. We want you, our neighbors and valued customers, to be informed about your water utility. Feel free to attend any of our regularly scheduled meetings on the second Tuesday of every month at 6:00 pm at the Water Department office.

This report shows our water quality and what it means. Ellore Water System routinely monitors for constituents in your drinking water according to Federal and State laws. As water travels over the land or underground, it can pick up substances or contaminants such as microbes and chemicals. All drinking water, including bottled drinking water, may be reasonably expected to contain at least small amounts of some constituents. It's important to remember that the presence of these constituents does not necessarily pose a health risk.

The table below shows the results of our monitoring for the period of January 1st to December 31st, 2018. In this table you will find the following terms and abbreviations:

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

Parts per million (ppm) or Milligrams per liter (mg/l) - one part per million corresponds to one minute in two years or a single penny in \$10,000.

Parts per billion (ppb) or **Micrograms per liter** - one part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

Maximum Contaminant Level - The "Maximum Allowed" (MCL) is 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. MCL's are set at very stringent levels. To understand the possible health effects described for many regulated constituents, a person would have to drink 2 liters of water every day at the MCL level for a lifetime to have a one-in-a-million chance of having the described health effect.

Maximum Contaminant Level Goal - The "Goal"(MCLG) is 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.

Non-Detects (ND) - laboratory analysis indicates that the constituent is not present.

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LEAD and COPPER TEST RESULTS							
Contaminant	Violation Y/N	90th percentile	Unit Measurement	MCL G	Action Level	Sites over action level	Likely Source of Contamination
Copper 2018	N	0.18	ppm	1.3	1.3	0	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead 2018	N	2.20	ppb	0	15	0	Corrosion of household plumbing systems; Erosion of natural deposits.

Disinfectants and Disinfection By-Products	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation (Y/N)	Likely Source of Contamination
Total Trihalomethane (TTHM)	2018	LRAA 3	2.68-2.68	No goal for the total	80	ppb	N	By-product of drinking water disinfection
Haloacetic Acids HAA5	2018	LRAA 5	5.12-5.12	No goal for the total	60	ppb	N	By-product of drinking water disinfection
Chlorine	2018	RAA 1.27	0.73-2.08	MRDL 4	MRDLG 4	ppm	N	Water additive used to control microbes

TEST RESULTS								
Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation Y/N	Likely Source of Contamination
Fluoride	2016	0.12	0 – 0.12	4	4.0	ppm	N	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum

Radioactive Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation (Y/N)	Likely Source of Contamination
Combined Radium 226/228	2018	1.01	0.52 – 1.01	0	5	pCi/L	N	Erosion of natural deposits
Beta Photon Emitters	2018	4.45	0 - 4.45	0	50	pCi/L	N	Decay of natural and man-made deposits

Other Substances Monitored in Drinking Water		
NAME	REPORTED LEVEL	RANGE Low - High
Sodium 2016	14 ppm	3.1 – 14

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Violations Table - E. Coli			
Fecal Coliforms and E. Coli are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Microbes in these wastes can cause short-term effects, such as diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, the elderly and those with a compromised immune system.			
Violation Type	Violation Begin	Violation End	Violation Explanation
MONITOR GWR TRIGGERED/ ADDITIONAL, MAJOR	11/09/2017	2018	We failed to collect follow-up samples within 24 hours of learning of the total coliform-positive sample. These needed to be tested for fecal indicators from all sources that were being used at the time the positive sample was collected.

Violations Table – Lead and Copper Rule			
The Lead and Copper Rule protects public health by minimizing lead and copper levels in drinking water, primarily by reducing water corrosivity. Lead and copper enter drinking water mainly from corrosion of lead and copper containing plumbing materials.			
Violation Type	Violation Begin	Violation end	Violation Explanation
Follow-Up or Routine Tap M/R (LCR)	10/01/2013	2018	We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated.

All sources of drinking water are subject to potential contamination by substances that are naturally occurring, or man-made. These substances can be microbes, inorganic or organic chemicals and radioactive substances. All 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 1-800-4264791.

If you have special health needs

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 (800-426-4791).

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 Ellore Water System 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 Safe Drinking Water Hotline or at <http://www.epa.gov/safewater/lead>.

