

## 2023 Water Quality Report Town of Edisto Beach DHEC System # 1510006

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 you with 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 the Floridian Aquifer by nine active wells on Edisto Island.

A Source Water Assessment Plan has been prepared for our system. If you have any questions about this report or concerning your water utility, or if you do not have internet access, please contact Patrick Zemp at (843) 869-2505. 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 Thursday of every month at 6:00 pm at the Town Hall.

This report shows our water quality and what it means. The Town of Edisto Beach routinely monitors 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, 2023. 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.

## Town of Edisto Beach #1510006 Test Results

### COLIFORM BACTERIA\*

Maximum Contaminant Level Goal	Total Coliform Maximum Contaminant Level	Highest No. of Positive Samples	Fecal Coliform or E. Coli Maximum Contaminant Level	Total No. of Positive E. Coli or Fecal Coliform Samples	Violation (Y/N)	Likely Source of Contamination
0	1 positive monthly sample	2,000		0	N	Naturally present in the environment.

\*Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially harmful, waterborne pathogens may be present or that a potential pathway exists through which contamination may enter the drinking water distribution system. We found coliforms indicating the need to look for potential problems in water treatment or distribution. When this occurs, we are required to conduct assessment(s) to identify problems and to correct any problems that were found during these assessments.

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.

During the past year we were required to conduct one (1) Level 1 assessment. One (1) Level 1 assessment was completed. A leak was found in the sodium hypochlorite discharge line. It has been repaired, the system was flushed, and all subsequent samples have been clean.

### LEAD AND COPPER TEST RESULTS

Contaminant	Violation (Y/N)	90 <sup>th</sup> Percentile	Units	MCLG	Action Level	Sites over Action Level	Likely Source of Contamination
Copper (2021)	N	0.17	ppm	1.3	1.3	0	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead (2021)	N	4.70	ppb	0	15	0	Corrosion of household plumbing systems; Erosion of natural deposits.

### REGULATED CONTAMINANTS

Disinfectants and Disinfection By-Products	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation (Y/N)	Likely Source of Contamination
Chlorine	2023	RAA 1.00	1.00 – 1.00	MRDLG = 4	MRDL = 4	ppm	N	Water additive used to control microbes.
Haloacetic Acids (HAAS)	2023	LRAA 3.0	2.90 – 2.90	No goal for the total	60	ppb	N	By-product of drinking water disinfection.
Total Trihalomethanes (TTHM)	2023	LRAA 8.00	8.30 – 8.30	No goal for the total	80	ppb	N	By-product of drinking water disinfection.
Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation (Y/N)	Likely Source of Contamination
Fluoride	2021	0.38	0.38 – 0.38	4	4.0	ppm	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.

Radioactive Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation (Y/N)	Likely Source of Contamination
Gross alpha excluding Radon and Uranium	2021	0.748	0.748-0.748	0	15	pCi/L	N	Erosion of natural deposits.
Unregulated Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation (Y/N)	Likely Source of Contamination
Sodium	2021	180	120 – 180	N/A	N/A	ppm	N	Erosion of natural deposits.

### Violations Table - Consumer Confidence Rule

The Consumer Confidence Rule requires community water systems to prepare and provide to their customers annual consumer confidence reports on the quality of the water delivered by the systems.

Violation Type	Violation Begin	Violation End	Violation Explanation
CCR	07/01/2023	07/28/2023	We failed to provide to you our drinking water customers, an annual report that informs you about the quality of our drinking water and characterizes the risks from exposure to contaminants detected in our drinking water.

### IMPORTANT NOTICE ABOUT YOUR DRINKING WATER Elevated Fluoride Levels Detected in the Town of Edisto Beach System

\*This is an alert about your drinking water and a cosmetic dental problem that might affect children under nine years of age. At low levels, fluoride can help prevent cavities, but children drinking water containing more than 2 milligrams per liter (mg/l) of fluoride may develop cosmetic discoloration of their permanent teeth (dental fluorosis). The drinking water provided by the Town of Edisto Beach has a fluoride concentration of 3.6 mg/l.

Dental fluorosis in its moderate or severe forms may result in brown staining and or pitting of the permanent teeth. This problem occurs only in developing teeth, before they erupt from the gums. Children under nine should be provided with alternative sources of drinking water or water that has been treated to remove the fluoride to avoid possible staining or pitting of their permanent teeth. You may also want to contact your dentist about proper use by young children of fluoride-containing products. Older children and adults may safely drink the water.

Drinking water containing more than 4 mg/l of fluoride (the US Environmental Protection Agency's drinking water standard) can increase your risk of developing bone disease. Your drinking water does not contain more than 4 mg/l of fluoride, but we are required to notify you when we discover that fluoride levels in your drinking water exceed 2 mg/l because of cosmetic dental problems.

Some people who drink water containing fluoride more than the MCL, over many years could get bone disease, including pain and tenderness of the bones. Children may get mottled teeth. South Carolina has a secondary standard of 2.0 ppm.

For more information, please call Patrick Zemp with the Town of Edisto Beach Utilities Department at 843-869-2505. Some home water treatment units are also available to remove fluoride from drinking water. To learn more about available water treatment units, you may call NSF International at 1-877-8-NSF-HELP.\*