

2021 Annual Drinking Water Quality Report

Callahan Water Treatment Plant PWS # 2450146

We are pleased to present to you this year's 2021 Annual Water Quality Report for the *Callahan Water Treatment Plant PWS # 2450146*. This report is designed to inform you about the quality water and services we deliver to you over the past year. 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. Our water source is ground water from two wells drawn from the **Floridan** Aquifer. Because of the excellent quality of our water, the only treatment required is chlorine for disinfection purposes and aeration for odor control.

2021 Source Water Assessment

In 2021 the Department of Environmental Protection performed a Source Water Assessment on our system and search of the data sources indicated 6 potential sources of contamination near our wells with low – moderate risk. The assessment results are available on the DEP Source Water Assessment and Protection Program website at <http://www.dep.state.fl.us/swapp>, or Town Hall 542300 US Hwy One, Callahan, Fl. 32011.

Water Quality Test Results

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

We encourage our valued customers to be informed about their water utility. If you have any questions about this report or concerning your water utility, please contact Michael A. Williams, Director of Public Works, at **904-879-3801**.

The *Callahan Water Treatment Plant* 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, 2021**. Data obtained **before January 1, 2021** and presented in the report are from the most recent testing done in accordance with the laws, rules, and regulations. As authorized and approved by EPA, the State has reduced the 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 results, though representative, is more than one year old.

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

- **Action Level (AL):** *The concentration of a contaminant that, if exceeded, triggers treatment or other requirements that a water system must follow.*
- **Locational Running Annual Average (LRAA):** *the average of sample analytical results for samples taken at a particular monitoring location during the previous four calendar quarters.*
- **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.*
- **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 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.
- **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 (µg/l)** – one part by weight of analyte to 1 billion parts by weight of the water sample.

Inorganic Contaminants

| 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 |
|-------------------------------------|---------------------------|-------------------|----------------|------------------|------|-----|--|
| Barium (ppm) | 08/2021 | N | 0.0402 | 0.0402 | 2 | 2 | Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits |
| Fluoride (ppm) | 08/2021 | N | 0.7900 | 0.7900 | 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 |
| Nickel (ppb) | 08/2021 | N | 2.8 | 2.8 | N/A | 100 | Pollution from mining and refining operations. Natural occurrence in soil |
| Sodium (ppm) | 08/2021 | N | 16.8 | 16.8 | N/A | 160 | Saltwater intrusion, leaching from soil |

Stage 1 Disinfectants and Disinfection By-Products

| Disinfectant or Contaminant and Unit of Measurement | Dates of sampling (mo./yr.) | MCL or MRDL Violation Y/N | Level Detected | Range of Results | MCLG or MRDLG | MCL or MRDL | Likely Source of Contamination |
|---|-----------------------------|---------------------------|----------------|------------------|---------------|-------------|---|
| Chlorine (ppm) | 01/2021-12/2021 | N | 0.7650 | 0.36-1.17 | 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 | Range of Results | MCLG | MCL | Likely Source of Contamination |
|-------------------------------------|---------------------------|---------------------|----------------|------------------|------|-----|---|
| Haloacetic Acids (HAA5) (ppb) | 08/2021 | N | 32 | 29.1-32 | N/A | 60 | By-product of drinking water disinfection |
| Total Trihalomethanes (TTHM) (ppb) | 08/2021 | N | 74.3 | 65.1-74.3 | 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 Exceeded (Y/N) | 90 th Percentile Result | No. of sampling sites exceeding the AL | MCLG | AL (Action Level) | Likely Source of Contamination |
|-------------------------------------|---------------------------|-------------------|------------------------------------|--|------|-------------------|--|
| Copper (tap water) (ppm) | 08/2020 | N | 0.645 | 0 | 1.3 | 1.3 | Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives |
| Lead (tap water) (ppb) | 08/2020 | N | 1.0 | 0 | 0 | 15 | Corrosion of household plumbing systems; erosion of natural deposits |

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 Callahan Water Treatment Plant 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 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.

In our continuing efforts to maintain a safe and dependable water supply it may be necessary to make improvements in your water system. The costs of these improvements may be reflected in the rate structure. Rate adjustments may be necessary in order to address these improvements.

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).

We at the Callahan Water Treatment Plant would like 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, please feel free to call any of the numbers listed.