

2024 Consumer Confidence Report for Public Water System CITY OF FLORENCE

This is your water quality report for January 1 to December 31, 2024

CITY OF FLORENCE provides surface water and ground water from **the Trinity aquifer and purchases surface water from the City of Georgetown lake Georgetown** located in **Williamson County**.

For more information regarding this report contact:

Name Stacey Adams, Public Works Director

Phone (254) 793-2490

Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, favor de llamar al telefono (254) 793-2490.

Definitions and Abbreviations

Definitions and Abbreviations

The following tables contain scientific terms and measures, some of which may require explanation.

Action Level:

The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

Avg:

Regulatory compliance with some MCLs are based on running annual average of monthly samples.

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.

Level 2 Assessment:

A Level 2 assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why an E. coli MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.

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.

MFL

million fibers per liter (a measure of asbestos)

mrem:

millirems per year (a measure of radiation absorbed by the body)

na:

not applicable.

NTU

nephelometric turbidity units (a measure of turbidity)

pCi/L

picocuries per liter (a measure of radioactivity)

Definitions and Abbreviations

| | |
|----------------------------|---|
| ppb: | micrograms per liter or parts per billion |
| ppm: | milligrams per liter or parts per million |
| ppq | parts per quadrillion, or picograms per liter (pg/L) |
| ppt | parts per trillion, or nanograms per liter (ng/L) |
| Treatment Technique or TT: | A required process intended to reduce the level of a contaminant in drinking water. |

Information about your Drinking Water

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.

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 water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPA's Safe Drinking Water Hotline at (800) 426-4791.

Contaminants that may be present in source water include:

- Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- 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.
- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.
- 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.
- 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, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Contaminants may be found in drinking water that may cause taste, color, or odor problems. These types of problems are not necessarily causes for health concerns. For more information on taste, odor, or color of drinking water, please contact the system's business office.

You may be more vulnerable than the general population to certain microbial contaminants, such as *Cryptosporidium*, in drinking water. Infants, some elderly, or immunocompromised persons such as those undergoing chemotherapy for cancer; persons who have undergone organ transplants; those who are undergoing treatment with steroids; and people with HIV/AIDS or other immune system disorders, can be particularly at risk from infections. You should seek advice about drinking water from your physician or health care providers. Additional guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* 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. We are responsible for providing high quality drinking water, but we 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>.

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 your community water system City of Florence has a fluoride concentration of 1.98 mg/L.

Dental fluorosis, in its moderate or severe forms, may result in a 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 the possibility of staining and 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.

For more information, please call **Stacey Adams** of the **City of Florence** at **(254) 793-2490**. Some home water treatment units are also available to remove fluoride from drinking water. To learn more about available home water treatment units, you may call NSF International at 1-877-8-NSF-HELP.

Information about Source Water

CITY OF FLORENCE purchases water from CITY OF GEORGETOWN. CITY OF GEORGETOWN provides purchase surface water from **lake Georgetown** located in **Williamson County**.

2024 Water Quality Test Results tested by the City of Georgetown

Inorganics

| Year | Constituent | High | Low | Average | MCL | MCLG | Units | Violation |
|------|-------------------------|--------|--------|---------|-----|----------|-------|-----------|
| 2024 | Aluminum | 0.0931 | 0.134 | 0.114 | 0.2 | 0.05-0.2 | ppm | N |
| 2024 | Barium | 0.0505 | 0.0352 | 0.043 | 2 | 2 | ppm | N |
| 2024 | Calcium | 102 | 36.3 | 80.650 | NA | NA | ppm | N |
| 2024 | Chromium | < 10 | < 10 | < 10 | 100 | 100 | ppb | N |
| 2024 | Cyanide | 100 | < 10 | 42.700 | 200 | 200 | ppb | N |
| 2024 | Fluoride | 0.9 | 0.2 | 0.550 | 4 | 4 | ppm | N |
| 2024 | Magnesium | 23 | 16.9 | 19.600 | NA | NA | ppm | N |
| 2024 | Manganese | 0.0012 | < .001 | 0.001 | NA | NA | ppm | N |
| 2024 | Nitrate (surface water) | 0.2 | 0.09 | 0.145 | 10 | 10 | ppm | N |
| 2024 | Nitrate (ground water) | 3.12 | 0.12 | 1.620 | 10 | 10 | ppm | N |
| 2024 | Nickel | 0.0039 | 0.001 | 0.002 | NA | NA | ppm | N |
| 2024 | Potassium | 3.64 | 1.37 | 2.000 | NA | NA | ppm | N |
| 2024 | Sodium | 46.1 | 16.5 | 26.850 | NA | NA | ppm | N |

**Synthetic Organic Contaminants, Semivolatile Organic Contaminants,
Pesticides, Herbicides & Carbamates**

| Year | Constituent | High | Low | Average | MCL | MCLG | Units | Violation |
|------|-------------|------|-----|---------|-----|------|-------|-----------|
| 2024 | Atrazine | 0.01 | 0 | 0.05 | 3 | 3 | ppb | N |

Turbidity

| Year | Constituent | High | Low | Average | MCL | MCLG | Units | Violation |
|------|-------------|------|------|---------|-----|------|-------|-----------|
| 2024 | Turbidity | 0.14 | 0.02 | 0.06 | 0.3 | NA | NTU | N |

Total Organic Carbon

| Year | Constituent | High | Low | Average | MCL | MCLG | Units | Violation |
|------|--|------|------|---------|------------------|------|-------|-----------|
| 2024 | Source Water Total Organic Carbon (Surface/Ground) | 3.73 | 3.09 | 3.35 | None established | | ppm | N |
| | | 1.24 | 0.91 | 1.02 | | | ppm | N |
| 2024 | Treated Water Total Organic Carbon (Surface/Ground) | 3.30 | 2.42 | 2.91 | None established | | ppm | N |
| | | 1.05 | 0.86 | 0.99 | | | ppm | N |

Unregulated Contaminants Monitored at Entry Point

| Year | Constituent | High | Low | Average | MCL | MCLG | Units | Violation |
|------|--------------------------|------|-----|---------|------------------|------|-------|-----------|
| 2024 | Dibromochloromethane | 19.4 | 7.4 | 15.2 | None established | | ppb | N |
| 2024 | Chloroform | 16.8 | 2 | 8.72 | None established | | ppb | N |
| 2024 | Bromoform | 12.3 | 2.4 | 6.59 | None established | | ppb | N |
| 2024 | Bromodichloromethane | 21.5 | 4.9 | 14.82 | None established | | ppb | N |
| 2024 | Hardness (surface water) | 175 | 175 | 175 | None established | | mg/L | N |
| 2024 | Hardness (ground water) | 349 | 297 | 282 | None established | | mg/L | N |

Radioactive Contaminants

| Year | Constituent | High | Low | Average | MCL | MCLG | Units | Violation |
|------|-------------|--------|--------|---------|------|------|-------|-----------|
| 2024 | Uranium | 0.0011 | 0.0011 | 0.0011 | 0.03 | 0 | mg/L | n |

TCEQ completed an assessment of your source water, and results indicate that some of our sources are susceptible to certain contaminants. The sampling requirements for your water system is based on this susceptibility and previous sample data. Any detections of these contaminants will be found in this Consumer Confidence Report. For more information on source water assessments and protection efforts at our system contact **Stacey Adams, (254) 793-2490**.

2024 Water Quality Results for City of Florence

| Lead and Copper | Date Sampled | MCLG | Action Level (AL) | 90 th Percentile | # Sites Over AL | Units | Violation | Likely Source of Contamination |
|-----------------|--------------|------|-------------------|-----------------------------|-----------------|-------|-----------|--|
| Copper | 2022 | 1.3 | 1.3 | 0.36 | 0 | ppm | N | Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems |
| Lead | 2022 | 0 | 15 | 2.7 | 1 | ppb | N | Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems |

| Disinfection By-Products | Date Sampled | Highest Level Detected | Range of Individual Samples | MCLG | MCL | Units | Violation | Likely Source of Contamination |
|------------------------------|--------------|------------------------|-----------------------------|-----------------------|-----|-------|-----------|---|
| Haloacetic Acids (HAA5) | 2024 | 22 | 4.7-54.7 | No goal for the total | 60 | ppb | N | By-Product of drinking water disinfection |
| Total Trihalomethanes (TTHM) | 2024 | 77 | 18.6-161 | No goal for the total | 80 | ppb | N | By-Product of drinking water disinfection |

The value in the highest level detected is the highest average of all the TTHM and HAA5 collected at a location over a year

| Inorganic Contaminants | Date Sampled | Highest Level Detected | Range of Individual Samples | MCLG | MCL | Units | Violation | Likely Source of Contamination |
|--------------------------------|--------------|------------------------|-----------------------------|------|-----|-------|-----------|---|
| Arsenic | 2022 | 3.4 | 3.4 – 3.4 | 0 | 10 | Ppb | N | Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes. |
| Barium | 2024 | 0.102 | 0.083-0.102 | 2 | 2 | ppm | N | Discharge of drilling waste; Discharge from metal refineries; Erosion of natural deposits |
| Fluoride | 2024 | 2.41 | 1.53-2.41 | 4 | 4 | ppm | N | Erosion of natural deposits; Water additive to promote strong teeth; Discharge from fertilizer and aluminum factories |
| Nickel | 2021 | 0.0013 | 0.0013 -0.0013 | | | ppm | N | Erosion of natural deposits |
| Nitrate (measured as nitrogen) | 2024 | 0.29 | 0.05-0.29 | 10 | 10 | ppm | N | Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits. |
| Selenium | 05/09/2022 | 10.1 | 10.1 - 10.1 | 50 | 50 | ppb | N | Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mines. |

| Radioactive Contaminants | Date Sampled | Highest Level Detected | Range of Individual Samples | MCLG | MCL | Units | Violation | Likely Source of Contamination |
|---|--------------|------------------------|-----------------------------|------|-----|--------|-----------|---|
| Beta/photon emitters | 2024 | 19.5 | 19.5-19.5 | 0 | 50 | pCi/L* | N | Decay of natural and man-made deposits. |
| Combined Radium 226/228 | 2021 | 3.02 | 3.02 – 3.02 | 0 | 5 | pCi/L | N | Erosion of natural deposits; |
| Gross Alpha excluding radon and uranium | 2021 | 4.6 | 4.6 – 4.6 | 0 | 15 | pCi/L | N | Erosion of natural deposits |

*EPA considers 50 pCi/L to be the level of concern for beta particles

| Disinfectant Residual | Year | Average Level | Range of Levels Detected | MRDL | MRDLG | Units | Violation | Source in Drinking Water |
|-----------------------|------|---------------|--------------------------|------|-------|-------|-----------|---|
| Free Chlorine | 2024 | 1.53 | 0.3-6.9 | 4 | 4 | ppm | N | Water additive used to control microbes |

Violations

| Total Trihalomethanes (TTHM) | | | |
|--|-----------------|---------------|---|
| 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. | | | |
| Violation Type | Violation Begin | Violation End | Violation Explanation |
| FAILURE SUBMIT OEL REPORT FOR TTHM | 01/05/2023 | 9/26/2024 | We failed to submit our operational evaluation level (OEL) report to our regulator. The report is needed to determine best treatment practices necessary to minimize possible future exceedences of TTHM. |