



FAYETTE WATER SUPPLY CORPORATION

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# Consumer Confidence Report 2021

## Annual Drinking Water Quality Report for January 1, 2021 to December 31, 2021

Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, favor de llamar al telefono (979) 968-6475.

**Public Participation Opportunities:** Members are welcome to attend the monthly Board Meetings held every third Monday of the month at 5:30 p.m. Please contact the FWSC office for details.

## Definitions and Abbreviations

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

**Action Level Goal (ALC):** The level of a contaminant in drinking water below which there is no known or expected risk to health. ALGs allow for a margin of safety.

**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)

**ppb:** micrograms per liter or parts per billion - or one ounce in 7,350,000 gallons of water.

**ppm:** milligrams per liter or parts per million - or one ounce in 7,350 gallons of water.

**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 FWSC Office (979) 968-6475.

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>.

## FWSC West: Public Water System (PWS) ID TX 0750022

### Information About Source Water

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 the FWSC Office (979) 968-6475.

Source Water Name	Type of Water	Report Status	Location
3 – West Point	GW	Y	Aquifer: Queen City
4 – Swiss Alp	GW	Y	Aquifer: Jasper
8 - FM 1115	GW	Y	Aquifer: Queen City
7 - Roy Rd/Brewer	GW	Y	Aquifer: Carrizo
10 – Barnes/Hwy 71	GW	Y	Aquifer: Carrizo

### Lead and Copper

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	2021	1.3	1.3	0.164	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.
Lead	2018	0	15	2.4	0	ppb	N	Corrosion of household plumbing systems; Erosion of natural deposits.

### Coliform Bacteria

Maximum Contaminant	Highest No of Coliform Positive	E. coli Maximum Contaminant Level	Total No of Positive E. Coli or Fecal Coliform Samples	Violation	Likely Source of Contamination
0	2	System has a combination of routine and repeat coliform and <i>E.coli</i> positive samples	0	N	Naturally present in the environment.

### 2021 Water Quality Test Results

Disinfection By-Products	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Haloacetic Acids (HAA5)	2021	13	1.2 – 19.5	No goal for the total	60	ppb	N	By-product of drinking water disinfection.
* The value in the Highest Level or Average Detected column is the highest average of all HAA5 sample results collected at a location over a year'								
Total Trihalomethanes (TTHM)	2021	78	6.6 – 115	No goal for the total	80	ppb	N	By-product of drinking water disinfection.
* The value in the Highest Level or Average Detected column is the highest average of all TTHM sample results collected at a location over a year'								

Radioactive Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Beta/photon emitters	2021	10.6	0 – 10.6	0	50	pCi/L	N	Decay of natural and man-made deposits
Combined Radium 226/228	2021	1.5	0 – 1.5	0	5	pCi/L	N	Erosion of natural deposits.
Gross Alpha Excluding Radon & Uranium	2021	4	0 – 4	0	15	pCi/L	N	Erosion of natural deposits.
Uranium	2021	3.3	0 – 3.3	0	30	ug/l	N	Erosion of natural deposits.

Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Arsenic	2021	8	4.9 – 9.9	0	10	ppb	N	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes.

While your drinking water meets EPA standards for arsenic, it does contain low levels of arsenic. EPA's standard balances the current understanding of arsenic's possible health effects against the costs of removing arsenic from drinking water. EPA continues to research the health effects of low levels of arsenic, which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems.

Barium	02/28/2022	0.099	0.009 – 0.099	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Fluoride	04/13/2020	0.39	0.39 – 0.39	4	4.0	ppm	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Nitrate [measured as Nitrogen]	2021	0.07	0 – 0.07	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Selenium	02/28/2020	3.5	3.5 – 3.5	50	50	ppb	N	Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mines

Synthetic organic contaminants including pesticides and herbicides	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Di (2-ethylhexyl) phthalate	2018	15	0 - 15	0	6	ppb	N	Discharge from rubber and chemical factories.

Volatile Organic Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Toluene	2020	0.0006	0 - 0.0006	1	1	ppm	N	Discharge from petroleum factories.

Radioactive Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Beta/photon emitters	2021	10.6	0 - 10.6	0	50	pCi/L*	N	Decay of natural and man-made deposits.

Disinfectant Residual	Year	Average Level	Range of Levels Detected	MRDL	MRDLG	Unit of Measure	Violation	Source in Drinking Water
Chlorine (Free)	2020	1.27	0.00 – 5.0	4	4	ppm	N	Water additive used to control microbes.

Fayette Water Supply Corporation has emergency interconnect agreements with the following systems. The interconnect with FCWCID was used in 2021. The water source for The City of La Grange and the Fayette County Water Control and Improvement District – Monument Hill is ground water. For further information regarding water quality, please feel free to contact them for their Consumer Confidence report.

- City of La Grange (PWS ID TX0750003), 801 W. Lower Line St., La Grange TX 78945 (979) 968-5033 or visit them online: <http://www.cityoflg.com/departments/utilities.php>
- Fayette County Water Control and Improvement District (FCWCID) – Monument Hill (PWS ID TX0750009), 343 State Loop 92, La Grange TX 78945 (979) 968-5514 or visit them online: <http://monumenthillwater.com/home/>

## 2021 Violations

### 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, and people with severely compromised immune systems.

Violation Type	Violation Begin	Violation End	Violation Explanation
MONITOR GWR TRIGGERED/ADDITIONAL, MINOR	11/18/2021	04/05/2022	We failed to collect all the required 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.
MONITOR GWR TRIGGERED/ADDITIONAL, MINOR	12/22/2021	04/05/2022	We failed to collect all the required 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.

Fayette Water Supply Corporation, PWS 0750022, failed to collect the required number of triggered source bacteriological samples for fecal indicator monitoring of the groundwater system during November 2021 and December 2021. This monitoring is required by the Texas Commission on Environmental Quality’s “Drinking Water Standards” and the federal “Safe Drinking Water Act,” Public Law 95-523.

Triggered source samples are used to monitor water quality and indicate if the water is free of fecal indicator bacteria. Following a positive routine total coliform result in our distribution system, our water system is required to submit one triggered source sample for every active groundwater well source. Failure to collect all required triggered source samples is a violation of the monitoring requirements and we are required to notify you of this violation.

#### What should I do?

There is nothing you need to do at this time.

#### What is being done?

FWSC has cleared this violation by taking a raw water sample from our well sites in April 2022.

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.

## Revised Total Coliform Rule (RTCR)

The Revised Total Coliform Rule (RTCR) seeks to prevent waterborne diseases caused by E. coli. E. coli are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Human pathogens in these wastes can cause short-term effects, such as diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a greater health risk for infants, young children,

Violation Type	Violation Begin	Violation End	Violation Explanation
MONITORING, ROUTINE, MINOR (RTCR)	02/01/2021	02/28/2021	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.
MONITORING, ROUTINE, MINOR (RTCR)	11/01/2021	11/30/2021	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.

## IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER Monitoring Requirements Not Met for: FAYETTE WSC WEST

Our system failed to collect every required coliform sample. Although this incident was not an emergency, as our customers, you have a right to know what happened and what we did to correct this situation.

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. During February 2021 (02/01/2021 – 02/28/2021) and November 2021 (11/01/2021 – 11/30/2021) we did not complete all monitoring or testing for coliform bacteria and therefore cannot be sure of the quality of your drinking water during that time.

### What should I do?

There is nothing you need to do at this time. You may continue to drink the water. If a situation arises where the water is no longer safe to drink, we are required to notify you within 24 hours.

### What is being done?

We collected every required coliform sample in March 2021 and December 2021 and are no longer in violation. For more information, please contact Fayette Water Supply Corporation at 979-968-6475 or 200 Bordovsky Road, La Grange, TX 78945.

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.

This notice is being sent to you by FAYETTE WSC WEST

Public water System ID# TX0750022

Date Distributed: April 28, 2022

The reason FWSC received this violation in February 2021 was due to Winter Storm Uri. FWSC did not have water to take the samples. The monitoring and reporting requirements for routine compliance samples in the Texas Administrative Code (TAC) are a minimum standard set by the federal RTCE. The TCEQ is prohibited by rule from offering variances for rules addressing microbial contaminants [30 TAC 290.102(b)(4)]. Therefore, the TCEQ cannot provide a variance for the RTCR monitoring and reporting requirements for February 2021. FWSC took the required samples in March 2021 and this violation has been cleared.

The reason FWSC received this violation was due to not taking enough samples in November 2021. FWSC took 6 samples instead of 7 during the month of November 2021. This was corrected by taking the correct number of samples in December 2021 and the violation has been cleared.

# FWSC East: Public Water System (PWS) ID TX 0750034

## Information About Source Water

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 the FWSC Office (979) 968-6475.

Source Water Name	Type of Water	Report Status	Location
5 - Walhalla	GW	Y	Aquifer: Jasper
6 - Rutersville	GW	Y	Aquifer: Yegua Jackson

## Lead and Copper

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	2021	1.3	1.3	0.359	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems
Lead	2021	0	15	5	1	ppb	N	Corrosion of household plumbing systems; Erosion of natural deposits.

## 2021 Water Quality Test Results

Disinfection By-Products	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Haloacetic Acids (HAA5)	2021	2	1.8 – 1.8	No goal for the total	60	ppb	N	By-product of drinking water disinfection.
* The value in the Highest Level or Average Detected column is the highest average of all HAA5 sample results collected at a location over a year'								
Total Trihalomethanes (TTHM)	2021	14	13.9 – 13.9	No goal for the total	80	ppb	N	By-product of drinking water disinfection.
* The value in the Highest Level or Average Detected column is the highest average of all TTHM sample results collected at a location over a year'								

Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Barium	2021	0.0612	0.0605 – 0.0612	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Fluoride	2021	0.3	0.21 – 0.32	4	4.0	ppm	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Nitrate [measured as Nitrogen]	2018	0.03	0.02 - 0.03	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.

Radioactive Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Beta/photon emitters	2021	17.2	10.1 – 17.2	0	50	pCi/L*	N	Decay of natural and man-made deposits.
*EPA considers 50 pCi/L to be the level of concern for beta particles.								
Combined Radium 226/228	2018	1.96	1.96 – 1.96	0	5	pCi/L	N	Erosion of natural deposits
Gross alpha excluding radon and uranium	2021	3.9	0 – 3.9	0	15	pCi/L	N	Erosion of natural deposits

Synthetic organic contaminants including pesticides and herbicides	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Di (2-ethylhexyl) phthalate	2018	1	0.96 - 0.96	0	6	ppb	N	Discharge from rubber and chemical factories.

Volatile Organic Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Toluene	2018	0.0009	0 - 0.0009	1	1	ppm	N	Discharge from petroleum factories.

Disinfectant Residual	Year	Average Level	Range of Levels Detected	MRDL	MRDLG	Unit of Measure	Violation	Source in Drinking Water
Chlorine (Free)	2021	1.18	0 – 3.8	4	4	ppm	N	Water additive used to control microbes.

Fayette Water Supply Corporation has an emergency interconnect agreement with The City of La Grange that was not used by FWSC during 2021. For further information regarding their water quality, please feel free to contact them for their Consumer Confidence report.

City of La Grange (PWS ID TX0750003), 801 W. Lower Line St., La Grange TX 78945 (979) 968-5033 or visit them online: <http://www.cityoflg.com/departments/utilities.php>

## 2021 Violations

### 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 M/R (LCR)	01/01/2021	07/20/2021	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.

FWSC resolved the Lead and Copper Rule Violation.