## QUALITY REPORT **2020 WATER**

Flatwood System, TX PWS 0670030

July 1, 2021

Staff Water Supply Corporation P.O. Box 421, Ranger, TX 76470

# 2020 Consumer Confidence Report for Public Water System STAFF WSC FLATWOOD AREA

This is your water quality report for January 1 to December 31, 2020

For more information regarding this report contact:

Eastland County. STAFF WSC FLATWOOD AREA provides surface water from Lake Leon located in

Name Staff WSC

Phone 254-647-5133

llamar al telefono (254)647-5133. Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, favor de

#### **Definitions and Abbreviations**

Action Level:

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

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

and/or why total coliform bacteria have been found in our water system on multiple occasions. 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

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 or MCL:

Level 2 Assessment:

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

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.

million fibers per liter (a measure of asbestos)

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

not applicable

nephelometric turbidity units (a measure of turbidity)

picocuries per liter (a measure of radioactivity)

pCi/L OLN na: mrem: MFL

#### **Definitions and Abbreviations**

ppb: micrograms per liter or parts per billion

ppm: milligrams per liter or parts per million

ppm pprt 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

from human activity. 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 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

Hotline at (800) 426-4791 necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPAs Safe Drinking Water Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not

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
- and gas production, mining, or farming 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
- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses
- from gas stations, urban storm water runoff, and septic systems Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come
- 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

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 immunocompromised persons such as those undergoing chemotherapy for cancer; persons who have undergone organ transplants; those who are undergoing treatment with You may be more vulnerable than the general population to certain microbial contaminants, such as Cryptosporidium, in drinking water. Infants, some elderly, or Hotline (800-426-4791)

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 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. 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 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 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

### **Public Participation Opportunities**

contact the office at 254-647-5133. Staff WSC is governed by a board of directors, which meet every second Monday of every month at 6:00 PM at 620 W. Loop 254, Ranger, TX. For more information you may

## Water Loss at the Water Treatment Plant

During the period from January 1, 2019 through December 31, 2019, Eastland County Water Supply District system used an estimated 75,463,000 gallons of water

(approximately 15% of what entered the plant) after it entered the water treatment plant for washing filters and other plant production processes. If you have any

Questions about the water loss figure call 254-647-1320

County Water Supply District located in Eastland County, Eastland, TX Staff WSC FLATWOOD AREA purchases water from CITY OF CARBON. City of Carbon purchases water from CITY OF EASTLAND. CITY OF EASTLAND provides purchased surface water from Lake Leon supplied by Eastland

system contact City of Carbon 254-334-1600. source based on human activities and natural conditions. The system(s) from which we purchase our water received the assessment report. For more information on source water assessments and protection efforts at our TCEQ completed a Source Water Susceptibility for all drinking water systems that own their sources. This report describes the susceptibility and types of constituents that may come into contact with the drinking water

## 2020 Water Quality Test Results City of Carbon, TX PWS 0670015

#### Coliform Bacteria

	7
0	Maximum Contaminant Level Goal
1 positive monthly sample.	Total Coliform  Maximum  Contaminant Level
1	Highest No. of Positive
	Highest No. of Positive Fecal Coliform or E. Coli Total No. of Positive E. Coli Maximum Contaminant Level or Fecal Coliform Samples
0	Total No. of Positive E. Coli or Fecal Coliform Samples
z	Violation
Naturally present in the environment.	Likely Source of Contamination

Lead	Copper	Lead and Copper
2020	2020	Date Sampled
0	11.3	MCLG
15	1.3	Action Level (AL)
3.92	0.416	Action Level (AL) 90th Percentile # Sites Over AL
0	0	# Sites Over AL
ppb	ppm	Units
Z	z	Violation
Corrosion of household plumbing systems; Erosion of natural deposits.	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing	Likely Source of Contamination

Disinfection By-Products	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Haloacetic Acids (HAA5)	2020	42	32 - 41.5	No goal for the total	60	Haloacetic Acids (HAA5)         2020         42         32 - 41.5         No goal for the total         60         ppb	z	By-product of drinking water disinfection.

sample results collected at a location over a year.

ppb		Υ
	ppb	ү дрв

Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Nitrate [measured as Nitrogen]	2020	0.173	0.173 - 0.173	10	10	ppm	z	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.

#### Disinfectant Residual

A blank disinfectant residual table has been added to the CCR template, you will need to add data to the fields. Your data can be taken off the Disinfectant Level Quarterly Operating Reports (DLQOR).

Disinfectant Residual	Year	Average Level	Range of Levels Detected	MRDL	MRDLG	Unit of Measure	Violation (Y/N)	Violation (Y/N) Source in Drinking Water
	2020			4	4			Water additive used to control microbes.

#### **Violations**

Chlorine

Some people who use water containing chlorine well in excess of the MRDL could experience irritating effects to their eyes and nose. Some people who drink water containing chlorine well in excess of the MRDL could experience stomach discomfort.

Violation Type	Violation Begin	Violation End	Violation Explanation
Disinfectant Level Quarterly Operating Report	04/01/2020	06/30/2020	We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be cure of
(DLQOR).	0.10.11.00.00	00/20/2020	we railed 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.

#### **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.

MCL, LRAA 07/01/2020 09/	MCL, LRAA 04/01/2020 06/	Violation Type Violation Begin Viol
09/30/2020 Water samples showed that the amount of this contaminant in our drinking water was above its standard (called a maximum contaminant level and abbreviated MCL) for the period indicated	06/30/2020 Water samples showed that the amount of this contaminant in our drinking water was above its standard (called a maximum contaminant level and abbreviated MCL) for the period indicated	Violation End Violation Explanation
rinking water was above its standard (called a maximum	rinking water was above its standard (called a maximum	

## 2020 Water Quality Test Results

City of Eastland TX PWS 0670002

### Information about Source Water

CITY OF EASTLAND purchases water from EASTLAND COUNTY WATER SUPPLY DISTRICT. EASTLAND COUNTY WATER SUPPLY DISTRICT provides purchased surface water from Lake Leon in Eastland County, Eastland, TX.

TCEQ completed a Source Water Susceptibility for all drinking water systems that own their sources. This report describes the susceptibility and types of constituents that may come into contact with the drinking water source based on human activities and natural conditions. The system(s) from which we purchase our water received the assessment report. For more information on source water assessments and protection efforts at our

Copper	Lead and Copper
2020	Date Sampled
1.3	MCLG
1.3	Action Level (AL)
0.729	90th Percentile
0	# Sites Over AL
ppm	Units
Z	Violation
Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems	Likely Source of Contamination

Disinfection By-Products
Collection Date
Highest Level Detected
Range of Individual Samples
MCLG
MCL
Units
Violation
Likely Source of Contamination

<sup>\*</sup>The value in the Highest Level or Average Detected column is the highest average of all HAAS sample results collected at a location over a year Haloacetic Acids (HAA5) 2020 39 28 - 38.1 No goal for the 60 ppb z 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 Total Trihalomethanes (TTHM) 2020 89 32.4 - 83.1 No goal for the total 80 ppb Z By-product of drinking water disinfection.

Nitrate [measured as Nitrogen]	Inorganic Contaminants
2020	Collection Date
0.0571	Highest Level Detected
0.0571 - 0.0571	Range of Individual Samples
10	MCLG
10	MCL
ppm	Units
Z	Violation
Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.	Likely Source of Contamination

#### **Disinfectant Residual**

A blank disinfectant residual table has been added to the CCR template, you will need to add data to the fields. Your data can be taken off the Disinfectant Level Quarterly Operating Reports (DLQOR).

	Disinfectant Residual
2020	Year
	Average Level
	Range of Levels Detected
4	MRDL
4	MRDLG
	Unit of Measure
	Violation (Y/N)
Water additive used to control microbes.	Unit of Measure Violation (Y/N) Source in Drinking Water

#### 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

LEAD CONSUMER NOTICE (ECR)	Violation Type Vi
12/30/2019	Violation Begin
03/20/2020	Violation End
We failed to provide the results of lead tap water monitoring to the consumers at the location water was tested. These were supposed to be provided no later than 30 days after learning the results.	Violation Explanation

## 2020 Water Quality Test Results

## Eastland County Water Supply District PWS 0670019

Chlorite	Disinfection By-Products Collection Date Highest Level Detected
2020	Collection Date
0.534	Highest Level Detected
0.152-1.39	Range of Individual Samples
0.8	MCLG
1	MCL
ppm	Units
z	Violation
By-product of drinking water disinfection.	Violation Likely Source of Contamination

Haloacetic Acids (HAA5) * 2	2020	30.5	20.6-46.0	No goal for the total	60	ppb	z	By-product of drinking water disinfection.
total				total				
A5)	*	* 2020		30.5	30.5 20.6-46.0	30.5 20.6-46.0 No goal for the total	30.5 20.6-46.0 No goal for the 60 total	30.5 20.6-46.0 No goal for the 60 total

Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Arsenic	2020	0	Below detectable limit	0	10	ppb	z	Runoff natural deposits; Runoff from orchards. Runoff from glass and electronics production wastes.
Barium	2020	0.12	0.12-0.12	2	2	ppm	z	Discharge of drilling wastes; Discharge from metal Refineries; Erosion of natural deposits.
Fluoride	2019	0.117	0.117 - 0.117	4	4.0	ppm	z	Erosion of natural deposits; Water additive which Promotes strong teeth, Discharge from fertilizer and aluminum factories.
Nitrate [measured as Nitrogen]	2019	0.358	0.358-0.358	10	10	ppm	z	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	03/08/2016	4.9	4.9-4.9	0	50	P CI/L *	z	Decay of natural and man-made deposits.

<sup>\*</sup>EPA considers 50 pCi/L to be the level of concern for beta particles.

#### Disinfectant Residual

#### Turbidity

	Level Detected
Lechnique)	Limit (Treatment
	Violation
	Likely Source of Contamination

Information Statement: Turbidity is a measurement of the cloudiness of the water caused by suspended particles. We monitor it because it is a good indicator of water quality and the effectiveness of our filtration system and

#### Total Organic Carbon

Our system uses membrane filtration and is not required to remove TOC in the treatment plant.

#### **Violations**

## **Maximum Contaminant Level of Violations**

## Violations Other Than Maximum Contaminant Levels

Type Date	Monitoring Violation for SWMOR Report
ini	
Explanation	The ECWSD failed to conduct a membrane integrity test in June 2020 on a day when we were required to.
Length	N A
Length Steps Taken to Correct the Violation Health Effects Language	The ECWSD has modified the membrane filtration system to automatically conduct the membrane integrity test when required.
Health Effects Language	Results of regular monitoring are an indicator of whether or not your drinking water is safe. The Eastland County Water Supply District did not complete all of the monitoring and/or reporting for membrane integrity as required, and therefore TCEQ cannot be sure of the safety of your drinking water during that time.

## 2020 Water Quality Test Results

## Staff WSC Flatwood System, TX 0670030

system contact Linda Meroney 254-647-5133. TCEQ completed a Source Water Susceptibility for all drinking water systems that own their sources. This report describes the susceptibility and types of constituents that may come into contact with the drinking water source based on human activities and natural conditions. The system(s) from which we purchase our water received the assessment report. For more information on source water assessments and protection efforts at our

Lead	Copper	Lead and Copper
2020	2020	Date Sampled
0	1.3	MCLG
15	1.3	Action Level (AL)
4.4	0.4	Action Level (AL) 90th Percentile
0	0	# Sites Over AL
ppb	ppm	Units
z	Z	Violation
Corrosion of household plumbing systems; Erosion of natural deposits.	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing	Likely Source of Contamination

Haloacetic Acids (HAA5)     2020     46     31 - 46.9 total     No goal for the total     60     ppb     N     By-product of drinking water disinfection.	Disinfection By-Products	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
2020 46 31 - 46.9 No goal for the 60 ppb N									

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

*The value in the Bighort level of Acc	Total Trihalomethanes (TTHM)
	2020
	86
	37.3 - 104
	No goal for the total
	80
	ppb
	~
	By-product of drinking water disinfection.

value iii tiie rigiiest Level of 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	Violation Likely Source of Contamination
Nitrate [measured as Nitrogen]	2020	0.14	0.14 - 0.14	10	10	ppm	z	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.

#### **Disinfectant Residual**

A blank disinfectant residual table has been added to the CCR template, you will need to add data to the fields. Your data can be taken off the Disinfectant Level Quarterly Operating Reports (DLQOR).

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W
0
2
0
2
1

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Disinfectant Residual	Year	Average Level	Range of Levels Detected	MRDL	MRDLG	Unit of Measure	Violation (Y/N) Source in Drinking Water	Source ir
Chloramines	2020	1.36	0.5-4.0	4	4	Mg/L	z	

#### Violations

otal Trihalomethanes
(MHTT

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	04/04/2020	06/09/2020	We failed to submit our operational evaluation level (OEL) report to our regulator. The report is needed to determine best
MCL, LRAA	04/01/2020	06/30/2020	Water samples showed that the amount of this contaminant in our drinking water was above its standard (called a maximum contaminant level and abbreviated MCL) for the period indicated.
Violations			
MCL, LRAA	07/01/2020	09/30/2020	Water samples showed that the amount of this contaminant in our drinking water was above its standard (called a maximum contaminant level and abbreviated MCL) for the period indicated.

	MCL, LRAA
	07/01/2020
	09/30/2020
contaminant level and abbreviated MCL) for the period indicated.	Water samples showed that the amount of this contaminant in our drinking water was above its standard (called a maximum