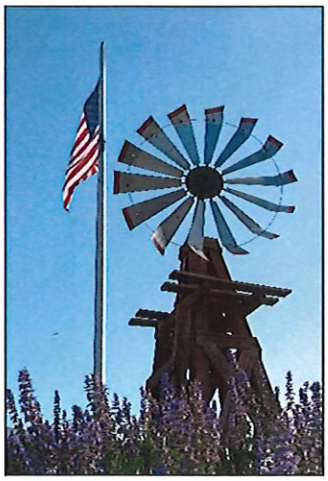
Hickory Creek Special Utility District

HCSUD – PWS ID: 1160062

2021 Annual Drinking Water Quality Report

Reporting for the period of January 1 - December 31, 2021



2021 Annual Drinking Water Quality Report

The attached report is intended to provide you with important information about your drinking water and the efforts made by the water system to provide safe drinking water. For more information regarding this report, please contact Mike Wemhoener, General Manager at 903-568-4760.

En Español - Este reporte incluye información importante sobre el agua para tomar. Para asistencia en Español, favor de llamar al telefono (903) 568-4760.

In addition to this report being posted at hickorycreeksud.com, printed copies are also available in our office.

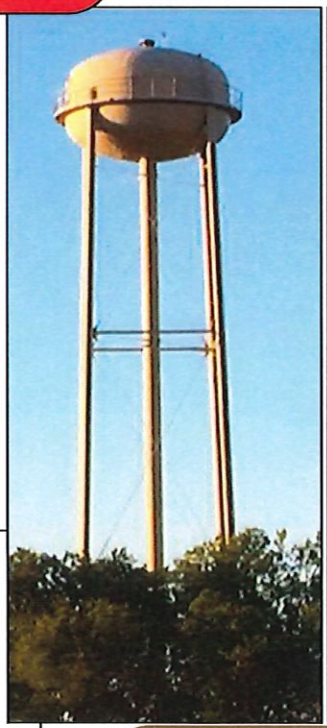
HCSUD Drinking Water Is Regulated.

Reminder... All Payments are due by the 10th of the Month to Avoid a $10 Late Fee. Any unpaid bills are subject to disconnection on the 25th of the month.

IMPORTANT! If you plan on digging, please contact our office for a line locate and allow 48 hours for flagging. Thank you!

VISIT US ONLINE at www.hickorycreeksud.com

- **Register and View Your Account**
- **Online Bill Pay**
- **Sign Up for Water Outages/Leaks Text Messages and/or Emails**
- **Learn About Water Conservation and More!!!**



2022

Board of Directors

Frances Caplinger
903.408.9958

Tammy Cross
903.513.6852

Phillip George
972.342.1134

Brandon Lamm
903.450.3187

Boyd Roberts
972.529.8464

Kevin Richey
214.435.6590

Brad White
903.408.7272

Public Participation Opportunities

Date: 3rd Monday of the Month
Time: 7:00pm
Location: Hickory Creek SUD Office, 101 N. 1st Street, Celeste
Phone: 903-568-4760

To learn more about future public meetings concerning your drinking water or to request to schedule one please call our office.

New Office Hours
8:00 am – 4:00 pm
Monday – Friday

(903) 568-4760
(903) 456-0916 Emergency

101 N. 1St. St. / P.O. Box 540
Celeste, TX, 75423

www.hickorycreeksud.com

2021 Consumer Confidence Report for Public Water System HICKORY CREEK SUD

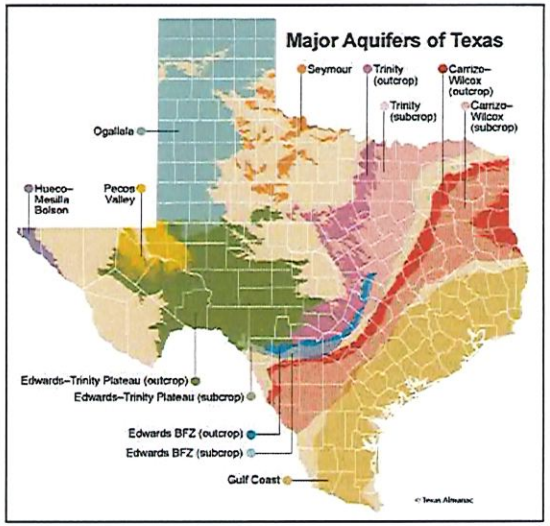
Hickory Creek SUD – Information about Source Water

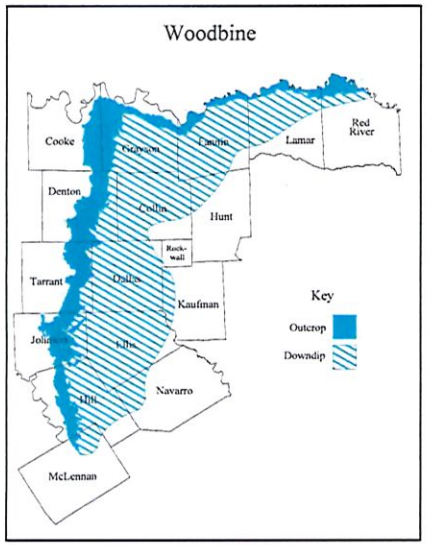
Hickory Creek SUD provides water from the Woodbine and Trinity Aquifer. Hickory Creek SUD (HCSUD) is located in three counties – Collin, Fannin and Hunt.

Source Water Name	Location	Type of Water	Aquifer
Hogeye Well	2470 FM 1566 W, Celeste	Ground Water	Minor-Woodbine / Major-Trinity
Lane Well	4290 FM 1562, Celeste	Ground Water	Minor-Woodbine / Major-Trinity
Prairie Hill Well	8636 FM 1143, Leonard	Ground Water	Minor-Woodbine / Major-Trinity
Sabine Well	6803 CR 1145, Celeste	Ground Water	Minor-Woodbine / Major-Trinity

TRINITY AQUIFER - MAJOR

The Trinity Aquifer consists of basal Cretaceous-age Trinity Group formations extending through 61 counties from the Red River in North Texas to the Hill Country of Central Texas. The aquifer is comprised of the Twin Mountains, Glen Rose, Paluxy, Hosston, and Hensell formations. Where the Glen Rose thins or is absent, the Twin Mountains and Paluxy formations coalesce to form the Antlers Formation. In the south, the Trinity includes the Glen Rose and underlying Travis Peak formations. Water from the Antlers portion is used mainly for irrigation in the outcrop area of North and Central Texas. Elsewhere, water from the Trinity Aquifer is used primarily for municipal and domestic supply.





WOODBINE AQUIFER - MINOR

The Woodbine aquifer consists of the Templeton, the Lewisville, the Red Branch, and the Dexter Members of the Upper Cretaceous Woodbine Formation, and is present in an area that extends from northern McLennan County in the south to the Red River in the north. The aquifer consists of fine to coarse ferruginous sand and sandstone, clay, shale, and sandy shale and some lignite and gypsum. The aquifer is hydraulically connected to overlying alluvium along the Red River. The thickness of the aquifer ranges from a few feet in outcrop areas to about 700 feet near the downdip limit of slightly saline water in Fannin County. Maximum depth to the top of the aquifer is about 2,000 feet below land surface. In downdip areas, the Woodbine aquifer is confined above by shales of the Upper Cretaceous Eagle Ford Group and below by the Buda Formation or the Grayson Marl and the Mainstreet Limestone, all of Cretaceous age.

Recharge to the aquifer is by precipitation that falls on aquifer outcrop areas and by seepage from lakes and streams where there is a downward gradient to the aquifer. Water moves through the aquifer from the outcrop in an east-southeast direction and generally follows the dip of the beds. Water from the aquifer in the outcrop area has an average dissolved-solids concentration of about 550 milligrams per liter; the concentration increases downdip to more than 3,000 milligrams per liter. Locally, the water has objectionable concentrations of iron, sodium, and chloride.

Wells completed in the Woodbine aquifer yield from about 100 to about 700 gallons per minute. A large cone of depression on the potentiometric surface of the aquifer is located near the middle of Grayson County and is the result of withdrawals for public supply. About 16 million gallons per day was withdrawn from the Woodbine aquifer during 1985. The principal use of the water was for public and domestic supply (49 percent), followed by withdrawal for agricultural (primarily irrigation) use (39 percent).

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 EPAs Safe Drinking Water Hotline at (800) 426-4791.

Contaminants that may be present in source water include:

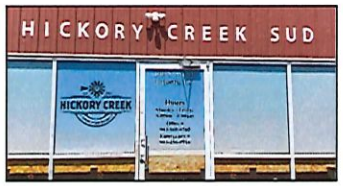
- Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban storm water runoff, industrial 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.

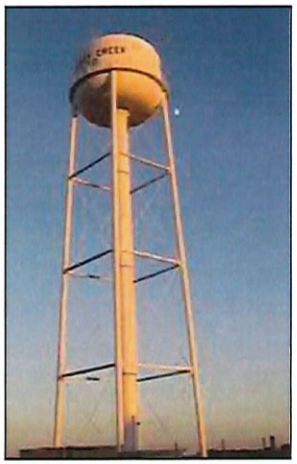


Water Leaks Can Be Costly! Don't Waste It!

	Leak Size	Gallons Per Day	Gallons Per Month	Cubic Feet per Quarter
	A dripping leak consumes:	15 Gallons	450 Gallons	180 Cubic Feet
	A 1/32 in. leak consumes:	264 Gallons	7,920 Gallons	3,168 Cubic Feet
	A 1/16 in. leak consumes:	943 Gallons	28,300 Gallons	11,319 Cubic Feet
	A 1/8 in. leak consumes:	3,806 Gallons	114,200 Gallons	45,681 Cubic Feet
	A ¼ in. leak consumes:	15,226 Gallons	456,800 Gallons	182,721 Cubic Feet
	A 1/2in. leak consumes:	60,900 Gallons	1,827, 000 Gallons	730,800 Cubic Feet

Definitions and Abbreviations – "Information about Source Water Assessments" (Page 5) 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)
	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 Source Water Assessments

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 Mike Wemhoener, General Manager, at 903-568-4760.

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	08/05/2019	1.3	1.3	0.29	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems
Lead	08/05/2019	0	15	1.4	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	15	15.4 - 15.4	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	0.012	0.012 - 0.012	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Fluoride	2021	1.05	1.05 - 1.05	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	0.11	0.0526 - 0.11	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
Combined Radium 226/228	2021	1.5	1.5 - 1.5	0	5	pCi/L	N	Erosion of natural deposits.

Disinfectant Residual

Disinfectant Residual	Year	Average Level	Range of Levels Detected	MRDL	MRDLG	Unit of Measure	Violation (Y/N)	Source in Drinking Water
Chlorine (Free)	2021	1.81	.20 to 5.3	4	4	ppm	N	Water additive used to control microbes.

NO VIOLATIONS FOR 2021