



EAST CENTRAL SPECIAL UTILITY DISTRICT
WATER QUALITY REPORT
JANUARY – DECEMBER 2021
PWS# TX0150138

East Central Special Utility District strives to deliver drinking water of the highest quality, with exceptional value and reliability. This annual Drinking Water Quality Report provides information on the SUD's drinking water as required by the U.S. Environmental Protection Agency (EPA).

There are many opportunities for public participation. East Central SUD meets on every 2nd Thursday of the month. Information on these meetings can be found by visiting www.eastcentralsud.org or by calling us at (210) 649-2383.

Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, favor de llamar al 210-629-2383.

WATER SOURCES

East Central SUD provides service to approximately 7,200 active meters and we receive our drinking water from Canyon Regional Water Authority (Wells Ranch) ground water source from the Carrizo and Wilcox Aquifers located in Guadalupe and Gonzales Counties. Also, ECSUD purchases water from San Antonio Water System ground water source from the Edwards Aquifer located in Bexar County.

The sources of drinking water nationwide (both tap water and bottle water) include rivers, lakes, streams, ponds, reservoirs, springs and wells. As water travels over the surface of 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 the 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, storm water runoff and residential uses.

Organic chemical contaminants, including synthetic and volatile organic chemicals, which are byproducts of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff and septic systems.

Radioactive materials, which can be naturally occurring or 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 must provide the same protection or public health.

Contaminants may be found in drinking water that may cause taste, color, or odor problems. These types of problems are not necessarily a cause for health concerns. For concerns with taste, odor, or color of drinking water, please contact the business office.

SPECIAL NOTICE

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; those 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 at 800-426-4791.

SOURCE WATER ASSESSMENT

The Texas Commission on Environmental Quality (TCEQ) completed an assessment of our source water and results indicate that some of our sources are susceptible to certain contaminants. The sampling requirements for the water system are based on this susceptibility and previous sample data. For more information on source water, please refer to the Source Water Assessment Viewer available at the following URL: <https://www.tceq.texas.gov/gis/swaview>. Further details about sources and source water assessment are available in Drinking Water Watch at the following URL: <http://dww2.tceq.texas.gov/DWW1>

WATER LOSS AUDIT

In the water loss audit submitted to the Texas Water Development Board during the year covered by this report, our system lost an estimated 52,107,808 gallons of water. If you have any questions about the water loss audit, please call Brandon Rohan at (210) 649.2383.

WATER QUALITY REPORT – EAST CENTRAL SPECIAL UTILITY DISTRICT

January – December 2021

Lead and Copper	Date sampled	MCLG	Action level (AL)	90 th Percentile	# Sites Over AL	Units	Violation	Possible Sources of Contamination
Copper	11/12/2019	1.3	1.3	0.079	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.
Lead	11/12/2019	0	15	1.5	0	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	Possible Sources of Contamination
Haloacetic Acids (HAA5)	2021	6	1.1 – 7.9	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 collect at a location over a year.

Disinfection By-Products	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Possible Sources of Contamination
Total Trihalomethanes (TTHM)	2021	31	8 – 31	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 collect at a location over a year

Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Possible Sources of Contamination
Nitrate (measured as Nitrogen)	2021	1	0.18 – 1	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; 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
Free Chlorine	2021	1.76 mg/l	.6 – 2.8 mg/l	4	4	mg/L	N	Water additive used to control microbes

Table Key

AL: Action Level – The concentration of a contaminant which, if exceeded, triggers or other requirements which a water system must follow.	MCL – Maximum Contamination Level – The highest level of a contaminant allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best treatment technology.	pCi/L – picocuries per liter (a measure of radioactivity)
Avg: Regulatory compliance with some MCLs are based on running annual average of monthly samples.	MCLG – Maximum Contamination Level Goal – 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.	ppb – parts per billion or micrograms per liter (ug/L)
Level 1 Assessment: A study of the water system to identify potential problems and determine (if possible) why total coliform bacteria was found.	MRDL – Maximum Residual Disinfectant Level – The highest of a disinfectant allowed in drinking water. There is evidence that addition of a disinfectant helps control microbial contaminants.	ppm – parts per million or milligrams per liter (mg/L)
Level 2 Assessment -A very detailed study of the water system to identify potential problems and determine (if possible) why an Escherichia coli (E.coli) MCL violation has occurred and/or why total coliform bacteria were found on multiple occasions.	MRDLG – Maximum Residual Disinfectant Level Goal. The level of a drinking water disinfectant below which there is no known or expected risk of health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.	ppq – parts per quadrillions or picograms per liter (pg/L)
MFL – Million fibers per liter- a measure of asbestos.	na – not applicable	ppt – parts per trillion or nanograms per liter (ng/L)
mrem – millirems per year – a measure of radiation absorbed by the body.	NTU – nephelometric turbidity units (a measure of turbidity)	TT – Treatment Technique – Is a required process intended to reduce the level of a contaminant in drinking water.

East Central SUD purchases water from Canyon Regional Water Authority (CRWA) from CRWA Wells Ranch Water Treatment Plant which comes from ground water source out of the Carrizo and Wilcox Aquifers located in Guadalupe and Gonzales Counties.

**CANYON REGIONAL WATER AUTHORITY – WELLS RANCH TREATMENT PLANTS
WATER QUALITY DATA FOR YEAR 2021**

Microbiological Contaminant	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Possible Source of Contamination
Total Coliform Bacteria	Absent	Absent or Present	0	MCL: (systems that collect 40 or more samples per month) 5% of monthly samples are positive. (System that collect <40 samples/month – 1 positive monthly sample	N/A	No	Naturally present in the environment
Fecal coliform and E.coli	Absent	Absent or Present	0	0	N/A	No	Human and animal fecal waste
TOC	0	N/A	N/A	TT	Mg/L	No	Naturally present in the environment
Turbidity	N/A	N/A	N/A	TT	NTU	No	Soil runoff, Bacteria, organic material, suspended particles
Inorganic Contaminant	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Possible Source of Contamination
Nitrate (as Nitrogen)	0.18	0 – 0.18	10	10	ppm	No	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits.
Synthetic organic contaminants including pesticides and herbicides	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Possible Source of Contamination
Acrylonitrile	0	0	0	TT	ppb	No	Runoff from herbicide used on row crops
Alachlor	0	0	0	2	ppb	No	Residue of banned herbicide
Atrazine	0	0	3	3	ppb	No	Runoff from herbicide used on row crops
Benzo(a)pyrene (PAH)	0	0	0	200	Nanograms/L	No	Leaching from linings of water
Chlordane	0	0	0	2	ppb	No	Residue of banned termiticide
Dalapon	0	0	200	200	ppb	No	Runoff from herbicide used on rights of way
Di(2-ethylhexyl)adipate	0	0	400	400	ppb	No	Discharge from chemical factories
Di(2-ethylhexyl)phthalate	0	0	0	6	ppb	No	Discharge from rubber and chemical factories
Endrin	0	0	2	2	ppb	No	Residue of banned insecticide
Heptachlor	0	0	0	400	Nanograms/L	No	Residue of banned termiticide
Heptachlor epoxide	0	0	0	200	Nanograms/L	No	Breakdown of heptachlor
Hexachlorobenzene	0	0	0	1	ppb	No	Discharge from metal refineries and agricultural chemical factories
Hexachlorocyclopentadiene	0	0	50	50	ppb	No	Discharge from chemical factories
Methoxychlor	0	0	40	40	ppb	No	Runoff/leaching from insecticide used on fruits, vegetables, alfalfa, livestock
Simazine	0	0	4	4	ppb	No	Herbicide runoff
Toxaphene	0	0	0	3	ppb	No	Runoff/leaching from insecticide used on cotton and cattle

**CANYON REGIONAL WATER AUTHORITY
WATER QUALITY DATA FOR YEAR 2021 (CONTINUED)**

Volatile Organic Contaminants	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Possible Source of Contamination
Benzene	0	0	0	5	ppb	No	Discharge from factories; leaching from gas storage tanks and landfills
Carbon tetrachloride	0	0	0	5	ppb	No	Discharge from chemical plants and other industrial activities
Chlorine	2.73	2.73	MRDLG = 4	MRDL - 4	ppm	No	Water additive used to control microbes
Chlorobenzene	0	0	100	100	ppb	No	Discharge from chemical and agricultural chemical factories
O-Dichlorobenzene	0	0	600	600	ppb	No	Discharge from industrial chemical factories
p-Dichlorobenzene	0	0	75	75	ppb	No	Discharge from industrial chemical factories
1,2-Dichloroethane	0	0	0	5	ppb	No	Discharge from industrial chemical factories
1,1-Dichloroethylene	0	0	7	7	ppb	No	Discharge from industrial chemical factories
Cis-1,2-Dichloroethylene	0	0	70	70	ppb	No	Discharge from industrial chemical factories
Trans - 1,2-Dichloroethylene	0	0	100	100	ppb	No	Discharge from industrial chemical factories
Dichloromethane	0	0	0	5	ppb	No	Discharge from pharmaceutical and chemical factories
1,2-Dichloropropane	0	0	0	5	ppb	No	Discharge from industrial chemical factories
Ethylbenzene	0	0	700	700	ppb	No	Discharge from petroleum refineries
Haloacetic Acids (HAA)	1.1	1.1	N/A	60	ppb	No	By-product of disinfection
Styrene	0	0	100	100	ppb	No	Discharge from rubber and plastic factories; leaching from landfills
Tetrachloroethylene	0	0	0	5	ppb	No	Leaching from PVVC pipes; discharge from factories and dry cleaners
1,2,4-Trichlorobenzene	0	0	70	70	ppb	No	Discharge from textile-finishing factories
1,1,1-Trichloroethane	0	0	200	200	ppb	No	Discharge from metal degreasing sites and other factories
1,1,2-Trichloroethane	0	0	3	5	ppb	No	Discharge from industrial chemical factories
Trichloroethylene	0	0	0	5	ppb	No	Discharge from metal degreasing sites and other factories
TTHM (Total trihalomethanes)	8.2	8.2	0	100/80	ppb	No	By-product of drinking water chlorination
Toluene	0	0	1	1	ppm	No	Discharge from petroleum factories
Vinyl Chloride	0	0	0	2	ppb	No	Leaching from PVC piping; discharge from plastics factories
Xylenes	0	0	10	10	ppm	No	Discharge from petroleum factories; discharge from chemical factories



East Central SUD purchases water from San Antonio Water System (SAWS) which comes from ground water source out of the Edwards Aquifer located in Bexar County.

**SAN ANTONIO WATER SYSTEM
WATER QUALITY DATA FOR YEAR 2021**

Radioactive Contaminates	Concentration Range Found	Units	Maximum Contaminant Level Allowed
Gross Alpha, excl. Radon & Uranium	0 - 4	PCI/L	15 PCI/L
Gross Alpha, Inc. Radon & Uranium	0 - 4.9	PCI/L	No MCL for this contaminate
Combined Radium (-226 & 228)	0 - 1.04	PCI/L	5 PCI/L
Radium – 226	0 - 1.04	PCI/L	5 PCI/L
Combined Uranium	0 - 1.4	UG/L	30 UG/L
Inorganic Contaminants	Concentration Range Found	Units	Maximum Contaminant Level Allowed
Barium	0.071 – 0.0665	MG/L	2 MG/L
Fluoride	0.15 – 0.64	MG/L	4 MG/L
Nitrate	0.7 – 2.51	MG/L	10 MG/L
Copper	0.0037 – 0.0119	MG/L	No MCL for this contaminate
Volatile Organic Contaminants	Concentration Range Found	Units	Maximum Contaminant Level Allowed
Xylenes, Total	0.5 – 0.6	UG/L	10000 UG/L
Secondary and Other Constituents Not Regulated (No MCL for this contaminant)			
Contaminants	Concentration Range Found	Units	Current Maximum Contaminate Level Allowed (MCL)
Alkalinity, Bicarbonate	182 - 355	MG/L	No MCL for Contaminate
Alkalinity, Total	149 - 291	MG/L	No MCL for Contaminate
Calcium	39.7 - 114	MG/L	No MCL for Contaminate
Chloride	17 - 40	MG/L	No MCL for Contaminate
Conductivity @ 25C UMHOS/CM	492 - 996	UMHO/CM	No MCL for Contaminate
Hardness, Total (As CaCO3)	110 - 424	MG/L	No MCL for Contaminate
Magnesium	2.74 - 33.9	MG/L	No MCL for Contaminate
Nickel	0.0013 - 0.0034	MG/L	No MCL for Contaminate
Potassium	1.15 - 5.26	MG/L	No MCL for Contaminate
Sodium	10.5 - 107	MG/L	No MCL for Contaminate
Sulfate	16 - 155	MG/L	No MCL for Contaminate
TDS	281 - 637	MG/L	No MCL for Contaminate
Zinc	0.0071 – 0.0107	MG/L	5 MG/L

NEWSLETTER

East Central Special Utility District has launched a new website. Please visit www.eastcentralsud.org, to subscribe and receive news and alerts via email and text.

We are also excited about the new options you can pay for your monthly water bill.

- **The worry-free way** to pay your water bill. Auto Pay via Web Portal – (Your account balance must be paid off prior to signing up for the Automatic Payment option). Once credit/debit card information is entered to pay a current bill, you can elect to pay your future water bills automatically. There will be options on the payment screen. You will have the option not to store your credit/debit card in the site's secure online vault, to store the credit / debit card information in the secure online vault for future payments, or store your payment information and set up a monthly recurring bill payment (Auto Payment). With the monthly recurring payment selection, the amount of your monthly bill is automatically deducted from the Visa, Mastercard, Discover or American Express card and credited to your utility account on the 10th of each month. You can access the information and set up your account by clicking the green "Pay Your Bill Now" button.
- **Automated Phone Service – (210) 254-1593** - This service is available 24 hours a day. You will need your account number and either a credit or debit card for payment.
- **Automatic Bank Draft (ACH)** – With this service, the amount of your monthly bill is automatically deducted from your bank account and credited to your utility account. There is no set-up fee or charges associated with this method payment. To sign up for automatic bank draft simply download the Direct Payment Authorization form from our website and drop it off or mail it to our office along with a voided check.
- **Payment Drop-Off** – You may pay your bill in person at our business office. We accept cash, check, money orders and debit/credit cards. To avoid longer wait times, please note that Mondays, Friday's and the first day after a holiday are normally very busy.
- **Payment By Mail** – If paying by check or money order through the mail, please send all payments with your payment coupon. To avoid late fees, please mail your payment as soon as possible, as we have seen lengthy delays in the mail.

East Central SUD is pleased to announce the construction for its new headquarters building and warehouse located on Hwy 87. It will include a 5,300 sq. ft headquarters building and a 7300 sq. ft warehouse and yard. Due to the rapid growth in our area, ECSUD currently serve 7,200 connections for an approximate population of 25,000.



One of the many properties of water is its ability to dissolve gases, including air. Sometime the air comes back out of the water in the form of many tiny bubbles, giving the water a temporary milky white appearance. To determine if the white color in the water is due to air, fill a clear glass with water and let it sit for a few minutes. If the white color is due to air, the water will gradually clear from bottom to top. This is completely normal – the water is safe to use.