



## 2020 Annual Drinking Water Quality Report

### City of Thrall Consumer Confidence Report

For inquiries about the water quality or this report, contact Normand Pariseau with the Thrall Water Department at (512) 269-7335. The results of this study are for the past year of 2020 and by regulation must be provided to our customers on an annual basis by July 1, 2021.

**PWS ID Number: TX2460015**

**PWS Name: City of Thrall**

Annual Water Quality Report for the period of January 1st to December 31st, 2020. The source of drinking water used by the City of Thrall is Purchased Surface Water from City of Taylor (PWS #2460004), and Manville Water Supply Company (PWS #2270033). Details about sources and source water assessments are available in Drinking Water Watch at the following URL: <http://dww2.tceq.texas.gov/DWWW/>.

This 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 contact:

The City of Thrall Water Department at (512) 269-7335.

*Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, favor de llamar al telefono (512) 898-5306.*

#### Special Notice Requirement

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, and odor problems. These types of problems are not necessarily causes for health concerns.

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 (800) 426-4791 or at: <http://www.epa.gov/safewater/lead>.

#### 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.

**Information about Source Water Assessments** City of Thrall purchases water from Manville Water Supply Company (source: LCRA- Lake Pflugerville, Travis county) City of Taylor ( Brazos River Authority Granger Lake Region. Brazos River Authority Granger Lake. )

The 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 are based on this susceptibility and previous sample data. Any detections of these contaminants may be found in this Consumer Confidence Report. For more information on source water assessments and protection efforts at our system, contact Normand Pariseau at (512) 269-7335.

**Water Quality Test Results - City of Thrall**

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.

**Action Level Goal (ALG):** 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.

**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.

**MCLG:** Maximum Contaminant Level Goal or 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.

**MCL:** Maximum Contaminant Level is 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.

**MRDLG:** Maximum Residual Disinfectant Level Goal is 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.

**MRDL:** Maximum Residual Disinfectant Level: 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.

**Avg:** Regulatory compliance with some MCLs is based on running annual average of monthly samples.

**MFL:** million fibers per liter (a measure of asbestos)

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

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

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

**ppq:** parts per quadrillion, or picograms per liter (pg/L)

**ppt:** parts per trillion, or nanograms per liter (ng/L)

**pCi/L:** picocuries per liter (a measure of radioactivity)

**Treatment Technique or TT:** A required process intended to reduce the level of a contaminant in drinking water.

**NTU:** nephelometric turbidity units (a measure of turbidity)

**na:** not applicable.

**2020 Water Quality Test Results for City of Thrall**

Lead & Copper	Date Sampled	MCLG	Action Level (AL)	90 <sup>th</sup> Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	07/27/2019	1.3	1.3	0.0467	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.
Lead	07/27/2019	0	15	0.973	0	ppb	N	Corrosion of household plumbing systems; Erosion of natural deposits.
Disinfectants and Disinfection By-Products	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Haloacetic Acids (HAA5)	2020	15	1.5-21	No goal for the total	60	ppb	N	By-product of drinking water disinfection.
Total Trihalomethanes (TTHM)	2020	48	14.7-60.5	No goal for the total	80	ppb	N	By-product of drinking water disinfection.

The City of Thrall used chlorine for sampling in the water system during the period of January 1<sup>st</sup> through December 31<sup>st</sup>, 2019.

Chemical	Average Level of Quarterly Data	Lowest Result	Highest Result	MRDL	MRDLG	Source of Chemical	Likely Source of Contamination
Chlorine	1.79 mg/l	0.61 mg/l	2.35 mg/l	4.0	2.0	Brenntag Southwest	Water additive used to control microbes.

Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Nitrate (measured as Nitrogen)	2020	1	1.36-1.36	10	10	N	ppm	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits

**CITY OF TAYLOR purchases water from BRAZOS RIVER AUTHORITY GRANGER LAKE REGI. BRAZOS RIVER AUTHORITY GRANGER LAKE**

SUBSTANCE (UNIT OF MEASURE)	YEAR SAMPLED	MCL [MRDL]	MCLG [MRDLG]	AMOUNT DETECTED	RANGE LOW-HIGH	AMOUNT DETECTED	RANGE LOW-HIGH	VIOLATION	TYPICAL SOURCE
Barium (ppm)	2020	2	2	NA	NA	0.0446	NA	No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Chloramine (ppm)	2020	4	4	3.9	0.5-3.9	3.4	2.55-3.42	No	Water additive used to control microbes
Fluoride (ppm)	2020	4	4	NA	NA	0.25	0.25 - 0.25	No	Erosion of natural deposits; Water additive that promotes strong teeth; Discharge from fertilizer and aluminum factories
Haloacetic Acids [HAAs] (ppb)	2020	60	NA	21.8	1.4 - 21.8	5.18	ND - 5.18	No	By-product of drinking water disinfection
TTHMs [Total Trihalomethanes] (ppb)	2020	80	NA	56.7	30.1 - 56.7	37.3	4.4 - 37.3	No	By-product of drinking water disinfection
Nitrate (ppm)	2020	10	10	1.1	1.1 - 1.1	0.9	0.9 - 0.9	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Cyanide (ppb)	2020	200	200	NA	NA	80	80-80	No	Discharge from steel/metal factories; Discharge from plastic and fertilizer factories

<b>Atrazine (ppb)</b>	2020	3	3	NA	NA	0.21	0.21 - 0.21	No	Runoff from herbicide used on row crops.
<b>Arsenic (ppm)</b>	2020	0.10	0	NA	NA	0.0023	0.0023 - 0.0023	No	Erosion of natural deposits; runoff from orchards, runoff from glass and electronics production wastes
<b>Radium 228 (pCi/L)</b>	2017	5	0	NA	NA	2.41	2.41 - 2.41	No	Erosion of natural deposits

City of Taylor, Violation Type	Violation Begin	Violation End	Violation Explanation
Routine Monitoring	12/17/2020	3/8/2021	Disinfectant Level Quarterly Operating Report was subsequently submitted late for third quarter 2020. The report was submitted, public notice was made, violation was resolved.

City of Thrall purchases water from Manville Water Supply Company (source: City of Pflugerville).  
Below is a table containing any contaminant detected in the provider's water for the calendar year 2020..

Volatile Organic Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Xylenes	2019	0.0012	0 – 0.0012	10	10	ppm	N	Discharge from petroleum refineries; Discharge from chemical factories.
Inorganic contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Arsenic	2019	2.7	2-2.7	0	10	N	ppb	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics product wastes.
Barium	2019	0.142	0.046-0.142	2	2	N	ppm	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Fluoride	2020	2.52	0.22-2.52	4	4	N	ppm	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum.
Selenium	2019	4.8	0-4.8	50	50	N	ppb	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines.
Nitrite (measured as nitrogen)	2015	.02	<0.01-0.2	1	1	N	ppm	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits

Nitrate levels in water above 10 ppm. is a health risk for infants of less than 6 months of age. High Nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels may rise quickly for short periods of time because of rainfall.

Radioactive Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Beta/Photon emitters	2017	4.4	0-4.4	0	4	N	mrem/yr	Decay of natural and man-made deposits.
Combined Radium 226 & 228	2020	1.8	1.8	0	5	N	pCi/L	Erosion of natural deposits.
Gross Alpha excluding radon and uranium	2020	7.1	7.1	0	15	N	pCi/L	Erosion of natural deposits.