



**2020 DRINKING WATER QUALITY REPORT**  
**Consumer Confidence Report 972-961-4892**

July 2021

Cryptosporidium and Giardia					
Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	Units	Likely Source of Contamination
Cryptosporidium	2020	0	0 - 0	(Oo) Cysts/L	Human and animal fecal waste.
Giardia	2020	0	0 - 0	(Oo) Cysts/L	Human and animal fecal waste.

Lead and Copper							
Lead and Copper	Date Sampled	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	9/5/2019	1.3	0.59	0	ppb	NO	Corrosion of household plumbing systems; erosion of natural deposits.
Lead	9/5/2019	15	1.3	1	ppm	NO	Erosion of natural deposits; leaching from wood preservatives; corrosion of household plumbing systems.

ADDITIONAL HEALTH INFORMATION FOR LEAD: 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. The City of Heath is responsible for providing high quality drinking water, but 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>.

Unregulated Contaminants					
Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	Units	Likely Source of Contamination
Chloroform	2020	14	6.67-14.0	ppb	By-product of drinking water disinfection.
Bromoform	2020	3.1	1.38-3.10	ppb	By-product of drinking water disinfection.
Bromodichloromethane	2020	13	7.91-13.0	ppb	By-product of drinking water disinfection.
Dibromochloromethane	2020	11	6.24-11.0	ppb	By-product of drinking water disinfection.

NOTE: Bromofom, chloroform, bromodichloromethane, and dibromochloromethane are disinfection by-products. There is no maximum contaminant level for these chemicals at the entry point to distribution.

Secondary and Other Constituents Not Regulated					
Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	Units	Likely Source of Contamination
Aluminum	2020	Levels lower than detect level	0 - 0	ppm	Erosion of natural deposits.
Calcium	2020	62.4	58.3 - 62.4	ppm	Abundant naturally occurring element.
Chloride	2020	78.9	23.2 - 78.9	ppm	Abundant naturally occurring element; used in water purification; by-product of oil field activity.
Iron	2020	Levels lower than detect level	0 - 0	ppm	Erosion of natural deposits; iron or steel water delivery equipment or facilities.
Magnesium	2020	9.40	8.83 - 9.40	ppm	Abundant naturally occurring element.
Manganese	2020	0.017	0.012 - 0.017	ppm	Abundant naturally occurring element.
Nickel	2020	0.0068	0.0066 - 0.0068	ppm	Erosion of natural deposits.
pH	2020	8.60	8.04 - 8.60	units	Measure of corrosivity of water.
Silver	2020	Levels lower than detect level	0 - 0	ppm	Erosion of natural deposits.
Sodium	2020	68.5	62.7 - 68.5	ppm	Erosion of natural deposits; by-product of oil field activity.
Sulfate	2020	158	42.0 - 158	ppm	Naturally occurring; common industrial by-product; by-product of oil field activity.
Total Alkalinity as CaCO <sub>3</sub>	2020	107	72.0 - 107	ppm	Naturally occurring soluble mineral salts.
Total Dissolved Solids	2020	504	265 - 504	ppm	Total dissolved mineral constituents in water.
Total Hardness as CaCO <sub>3</sub>	2020	207	106 - 207	ppm	Naturally occurring calcium.
Zinc	2020	Levels lower than detect level	0 - 0	ppm	Moderately abundant naturally occurring element used in the metal industry.

Violations Table								
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					
Lead Consumer Notice	12/30/2019	3/16/2020	City failed to provide the results of lead tap water to the consumers at the location water was tested. They were suppose to be provided no later than 30 days after learning the results.					
Public Notification Rule								
The Public Notification Rule helps to ensure that consumers will always know if there is a problem with their drinking water. These notices immediately alert consumers if there is a serious problem with their drinking water (e.g., a boil water emergency).								
Violation Type	Violation Begin	Violation End	Violation Explanation					
Public Notice Rule Linked to Violation	2/29/2020	4/24/2020	We failed to adequately notify you, our drinking water consumers, about a violation of the drinking water regulations.					

## Heath Drinking Water is Regulated by Federal (EPA) Drinking Water Requirements

This annual Water Quality Report covers the period of January 1 to December 31, 2020. 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. The analysis was made using the data from the most recent U.S. Environmental Protection Agency (EPA) required tests and is presented herein. We hope this information helps you become more knowledgeable about what is in your drinking water.

The sources of drinking water (both tap water and bottled water) may 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.

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.

The TCEQ has completed a Source Water Assessment for all drinking water systems that own their sources. The report describes the susceptibility and types of constituents that may come into contact with your drinking water source based on human activities and natural conditions. The source of drinking water used by the City of Heath is Purchased Surface Water from City of Rockwall through North Texas Municipal Water District (NTMWD) Wylie Water Treatment Plant. The water is obtained from the following Reservoirs: Lavon, Texoma, and Jim Chapman. The system, from which we purchase our water, NTMWD, received the Source Water Assessment report. For more information on source water assessments and protection efforts at our system, contact NTMWD at 972-442-5405. For more information about your sources of water, please refer to the Source Water Assessment Viewer available at the following URL <http://www.tceq.texas.gov/gis/swaviewer>. Further details about sources and source-water assessments are available in Drinking Water Watch at the following URL: <http://dww.tceq.texas.gov/DWW/>. For more information on source water assessments and protection efforts at our system, please contact North Texas Municipal Water District at 972-442-5405.

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 provider. 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.

**En Español** Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, favor de llamar al teléfono (972)-771-6228

### ALL Drinking Water May Contain Contaminants

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. These may cause taste, color or odor problems. The presence of these contaminants or types of problems are not necessarily causes for health concerns or health risks. More information about contaminants and potential health effects can be obtained by calling the EPA's Safe Drinking Water Hotline at (800) 426-4791.

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.

### PUBLIC PARTICIPATION OPPORTUNITIES

To request that an item concerning drinking water be placed on a future City Council agenda for public input, please email [cityhall@heathtx.com](mailto:cityhall@heathtx.com) or call the City Secretary at 972-771-6228. There are no public meetings concerning our drinking water currently scheduled. The City Council meets the second and fourth Tuesdays of each month.

**NTMWD Wylie Water Treatment Plants**  
**Water Quality Data for Year 2020**

Coliform Bacteria									
Maximum Contaminant Level Goal	Total Coliform Maximum Contaminant Level	Highest No. of Positive	Fecal Coliform or E. Coli Maximum Contaminant Level	Total No. of Positive E. Coli or Fecal Coliform Samples	Violation	Likely Source of Contamination			
0	1 positive monthly sample	0	0.0	0	NO	Naturally present in the environment.			
NOTE: Reported monthly tests found no fecal coliform bacteria. Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially harmful, bacteria may be present.									
Regulated Contaminants									
Disinfectants and Disinfection By-Products	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination	
Total Haloacetic Acids (HAA5)	2020	20	14-23	No goal for the total	60	ppb	No	By-product of drinking water disinfection.	
Total Trihalomethanes (TTHM)	2020	33	24.8-36.4	No goal for the total	80	ppb	No	By-product of drinking water disinfection.	
Bromate	2020	8.91	8.91 - 8.91	5	10	ppb	No	By-product of drinking water ozonation.	
NOTE: Not all sample results may have been used for calculating the Highest Level Detected because some results may be part of an evaluation to determine where compliance sampling should occur in the future. TCEQ only requires one sample annually for compliance testing.									
Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination	
Antimony	2020	Levels lower than detect level	0 - 0	6	6	ppb	No	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder; and test addition.	
Arsenic	2020	Levels lower than detect level	0 - 0	0	10	ppb	No	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes.	
Barium	2020	0.061	0.058 - 0.061	2	2	ppm	No	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits.	
Beryllium	2020	Levels lower than detect level	0 - 0	4	4	ppb	No	Discharge from metal refineries and coal-burning factories; discharge from electrical, aerospace, and defense industries.	
Cadmium	2020	Levels lower than detect level	0 - 0	5	5	ppb	No	Corrosion of galvanized pipes; erosion of natural deposits; discharge from metal refineries; runoff from waste batteries and paints.	
Chromium	2020	Levels lower than detect level	0 - 0	100	100	ppb	No	Discharge from steel and pulp mills; erosion of natural deposits.	
Fluoride	2020	0.225	0.218 - 0.225	4	4	ppm	No	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories.	
Mercury	2020	Levels lower than detect level	0 - 0	2	2	ppb	No	Erosion of natural deposits; discharge from refineries and factories; runoff from landfills; runoff from cropland.	
Nitrate (measured as Nitrogen)	2020	0.827	0.266 - 0.827	10	10	ppm	No	Runoff from fertilizer use; leaching from septic tanks; sewage; erosion of natural deposits.	
Selenium	2020	Levels lower than detect level	0 - 0	50	50	ppb	No	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines.	
Thallium	2020	Levels lower than detect level	0 - 0	0.5	2	ppb	No	Discharge from electronics, glass, and leaching from ore-processing sites; drug factories.	
Nitrate Advisory: Nitrate in drinking water at levels above 10 ppm is a health risk for infants of less than six 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 or agricultural activity. If you are caring for an infant you should ask advice from your health care provider.									
Radioactive Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination	
Beta/photon emitters	2018	8.0	8.0 - 8.0	0	50	pCi/L	No	Decay of natural and man-made deposits.	
Gross alpha excluding radon and uranium	2018	Levels lower than detect level	0 - 0	0	15	pCi/L	No	Erosion of natural deposits.	
Radium	2018	Levels lower than detect level	0 - 0	0	5	pCi/L	No	Erosion of natural deposits.	
Synthetic organic contaminants including pesticides and herbicides	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination	
2, 4, 5 - TP (Silvex)	2019	Levels lower than detect level	0 - 0	50	50	ppb	No	Residue of banned herbicide.	
2, 4 - D	2019	Levels lower than detect level	0 - 0	70	70	ppb	No	Runoff from herbicide used on row crops.	
Alachlor	2020	Levels lower than detect level	0 - 0	0	2	ppb	No	Runoff from herbicide used on row crops.	
Aldicarb	2019	Levels lower than detect level	0 - 0	0	3	ppb	No	Runoff from herbicide used on row crops.	
Aldicarb Sulfone	2019	Levels lower than detect level	0 - 0	0	2	ppb	No	Runoff from herbicide used on row crops.	
Aldicarb Sulfoxide	2019	Levels lower than detect level	0 - 0	3	4	ppb	No	Runoff from herbicide used on row crops.	
Atrazine	2020	0.2	0.2 - 0.2	3	3	ppb	No	Runoff from herbicide used on row crops.	
Benzo (a) pyrene	2020	Levels lower than detect level	0 - 0	0	200	ppt	No	Leaching from linings of water storage tanks and distribution lines.	
Carbofuran	2019	Levels lower than detect level	0 - 0	40	40	ppb	No	Leaching of soil fumigant used on rice and alfalfa.	
Chlordane	2020	Levels lower than detect level	0 - 0	0	2	ppb	No	Residue of banned termiticide.	
Dalapon	2019	Levels lower than detect level	0 - 0	200	200	ppb	No	Runoff from herbicide used on rights of way.	
Di (2-ethylhexyl) adipate	2020	Levels lower than detect level	0 - 0	400	400	ppb	No	Discharge from chemical factories.	
Di (2-ethylhexyl) phthalate	2020	0.6	0.6 - 0.6	0	6	ppb	No	Discharge from rubber and chemical factories.	
Dibromochemicalpropane (DBCP)	2019	Levels lower than detect level	0 - 0	0	200	ppt	No	Runoff / leaching from soil fumigant used on soybeans, cotton, pineapples, and orchards.	
Dinoseb	2019	Levels lower than detect level	0 - 0	7	7	ppb	No	Runoff from herbicide used on soybeans and vegetables.	

Endrin	2020	Levels lower than detect level	0 - 0	2	2	ppb	No	Residue of banned insecticide.
Ethylene dibromide	2019	Levels lower than detect level	0 - 0	0	50	ppt	No	Discharge from petroleum refineries.
Heptachlor	2020	Levels lower than detect level	0 - 0	0	400	ppt	No	Residue of banned termiticide.
Heptachlor epoxide	2020	Levels lower than detect level	0 - 0	0	200	ppt	No	Breakdown of heptachlor.
Hexachlorobenzene	2020	Levels lower than detect level	0 - 0	0	1	ppb	No	Discharge from metal refineries and agricultural chemical factories.
Hexachlorocyclopentadiene	2020	Levels lower than detect level	0 - 0	50	50	ppb	No	Discharge from chemical factories.
Lindane	2020	Levels lower than detect level	0 - 0	200	200	ppt	No	Runoff / leaching from insecticide used on cattle, lumber, and gardens.
Methoxychlor	2020	Levels lower than detect level	0 - 0	40	40	ppb	No	Runoff / leaching from insecticide used on fruits, vegetables, alfalfa, and livestock.
Oxamyl [Vydate]	2019	Levels lower than detect level	0 - 0	200	200	ppb	No	Runoff / leaching from insecticide used on apples, potatoes, and tomatoes.
Pentachlorophenol	2019	Levels lower than detect level	0 - 0	0	1	ppb	No	Discharge from wood preserving factories.
Picloram	2019	Levels lower than detect level	0 - 0	4	500	ppb	No	Herbicide runoff.
Simazine	2020	0.08	0.07 - 0.08	4	4	ppb	No	Herbicide runoff.
Toxaphene	2020	Levels lower than detect level	0 - 0	0	3	ppb	No	Runoff / leaching from insecticide used on cotton and cattle.
Volatile Organic Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
1, 1, 1 - Trichloroethane	2020	Levels lower than detect level	0 - 0	200	200	ppb	No	Discharge from metal degreasing sites and other factories.
1, 1, 2 - Trichloroethane	2020	Levels lower than detect level	0 - 0	3	5	ppb	No	Discharge from industrial chemical factories.
1, 1 - Dichloroethylene	2020	Levels lower than detect level	0 - 0	7	7	ppb	No	Discharge from industrial chemical factories.
1, 2, 4 - Trichlorobenzene	2020	Levels lower than detect level	0 - 0	70	70	ppb	No	Discharge from textile-finishing factories.
1, 2 - Dichloroethane	2020	Levels lower than detect level	0 - 0	0	5	ppb	No	Discharge from industrial chemical factories.
1, 2 - Dichloropropane	2020	Levels lower than detect level	0 - 0	0	5	ppb	No	Discharge from industrial chemical factories.
Benzene	2020	Levels lower than detect level	0 - 0	0	5	ppb	No	Discharge from factories; leaching from gas storage tanks and landfills.
Carbon Tetrachloride	2020	Levels lower than detect level	0 - 0	0	5	ppb	No	Discharge from chemical plants and other industrial activities.
Volatile Organic Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Chlorobenzene	2020	Levels lower than detect level	0 - 0	100	100	ppb	No	Discharge from chemical and agricultural chemical factories.
Dichloromethane	2020	Levels lower than detect level	0 - 0	0	5	ppb	No	Discharge from pharmaceutical and chemical factories.
Ethylbenzene	2020	Levels lower than detect level	0 - 0	0	700	ppb	No	Discharge from petroleum refineries.
Styrene	2020	Levels lower than detect level	0 - 0	100	100	ppb	No	Discharge from rubber and plastic factories; leaching from landfills.
Tetrachloroethylene	2020	Levels lower than detect level	0 - 0	0	5	ppb	No	Discharge from factories and dry cleaners.
Toluene	2020	Levels lower than detect level	0 - 0	1	1	ppm	No	Discharge from petroleum factories.
Trichloroethylene	2020	Levels lower than detect level	0 - 0	0	5	ppb	No	Discharge from metal degreasing sites and other factories.
Vinyl Chloride	2020	Levels lower than detect level	0 - 0	0	2	ppb	No	Leaching from PVC piping; discharge from plastics factories.
Xylenes	2020	Levels lower than detect level	0 - 0	10	10	ppm	No	Discharge from petroleum factories; discharge from chemical factories.
cis - 1, 2 - Dichloroethylene	2020	Levels lower than detect level	0 - 0	70	70	ppb	No	Discharge from industrial chemical factories.
o - Dichlorobenzene	2020	Levels lower than detect level	0 - 0	600	600	ppb	No	Discharge from industrial chemical factories.
p - Dichlorobenzene	2020	Levels lower than detect level	0 - 0	75	75	ppb	No	Discharge from industrial chemical factories.
trans - 1, 2 - Dichloroethylene	2020	Levels lower than detect level	0 - 0	100	100	ppb	No	Discharge from industrial chemical factories.
Turbidity								
			Limit (Treatment Technique)	Level Detected	Violation	Likely Source of Contamination		
Highest single measurement			1 NTU	0.31 NTU	No	Soil runoff.		
Lowest monthly percentage (%) meeting limit			0.3 NTU	100.00%	No	Soil runoff.		
NOTE: 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								