### 2017 Consumer Confidence Report for Public Water System for the Town of Westover Hills

This is your water quality report for January 1 to December 31, 2017

Town of Westover Hills provides surface water and ground water from Lake Worth, Eagle Mountain Lake, Lake Bridgeport, Richland Chambers Reservoir located in Tarrant County.

#### **Definitions and Abbreviations**

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.
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 MCLO	G: 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	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 o MRDLG:	r 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)
ppb:	micrograms per liter or parts per billion - or one ounce in 7,350,000 gallons of water.
ppm:	milligrams per liter or parts per million - or one ounce in 7,350 gallons of water.
ррд	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

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.

#### Information about Source Water

Town of Westover Hills purchases water from City of Fort Worth. City of Fort Worth provides purchase surface water from Lake Worth, Eagle Mountain Lake, Lake Bridgeport, Richland Chambers Reservoir located in Tarrant County.

# Abbreviations used In tables

MCL: Maximum Contaminant Level - 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.

MCLG: Maximum Contaminant 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.

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.

MRDLG: Maximum Residual Disinfectant Level Goal - 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.

N/A - not applicable/does not apply

NTU - Nephelometric Turbidity Unit; a measure of water turbidity or clarity

pCi/L - Picocuries per liter; a measure of radioactivity

ppb - Parts per billion or micrograms per liter  $(\mu g/L)$ 

ppm - Parts per million or milligrams per liter (mg/L)

TT: Treatment Technique - a required process intended to reduce the level of a contaminant in drinking water

# **Unregulated Contaminants**

<sup>4</sup> Unregulated contaminants are those for which EPA has not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist EPA in determining the occurrence of unregulated contaminants in drinking water and whether future regulation is warranted.

Contaminant	Measure	MRDL	MRDLG	2017 Level	Range of Detects	Common Sources of Substance
Chloral Hydrate	ppb	Not regulated	0	0.70	0.18 to 0.70	By-product of drinking water disinfection
Bromoform	ppb	Not regulated	0	5.86	1.19 to 5.86	By-products of drinking water
Bromodichloromethane	ppb	Not regulated	0	6.70	3.37 to 6.70	disinfection; not regulated
Chloroform	ppb	Not regulated	0.07	7.96	4.21 to 7.96	individually; included in Total Trihalomethanes
Dibromochloromethane	ppb	Not regulated	0.06	8.30	3.51 to 8.30	Innatomethanes
Dibromoacetic Acid	ppb	Not regulated	N/A	14.7	9.27 to 14.7	
Dichloroacetic Acid	ppb	Not regulated	0	5.93	4.70 to 5.93	By-products of drinking water
Monobromoacetic Acid	ppb	Not regulated	N/A	1.60	1.25 to 1.60	disinfection; not regulated individually; included in Haloacetic
Monochloroacetic Acid	ppb	Not regulated	0.07	0	0	Acids
Trichloroacetic Acid	ppb	Not regulated	0.02	1.60	0 to 1.60	

### Secondary Constituents

These items do not relate to public health but rather to the aesthetic effects. These items are often important to industry.

ltem	Measure	2017 Range	
Bicarbonate	ppm	108 to 144	
Calcium	ppm	37.4 to 50.6	
Chloride	ppm	11.6 to 36.1	
Conductivity	µmhos/cm	299 to 456	
pН	units	7.8 to 8.6	
Magnesium	ppm	2.69 to 7.78	6
Sodium	ppm	9.57 to 25.9	
Sulfate	ppm	24.8 to 34.4	
Total Alkalinity as CaCO <sub>3</sub>	ppm	108 to 145	
Total Dissolved Solids	ppm	116 to 255	
Total Hardness as CaCO,	ppm	113 to 157	
Total Hardness in Grains	grains/gallon	7 to 9	

#### **Emergency Interconnection**

From April 24 to April 25 2017, Fort Worth used the emergency interconnection with the Trinity River Authority of Texas-Tarrant Water Supply Project to supply water to the Centreport portion of the Fort Worth distribution system while repairs were made. The volume of water was subsequently repaid to TRA-TCWSP the next day via the emergency interconnection.

To obtain the TRA-TCWSP water quality data, please contact *(ADD YOUR CONTACT INFO).* 

Fort Worth Water's 2017 water quality data for wholesale customers

# Microorganism testing shows low detections in raw water

Tarrant Regional Water District monitors the raw water at all intake sites for *Cryptosporidium*, *Giardia Lamblia* and viruses. The source is human and animal fecal waste in the watershed.

The 2017 sampling showed low level detections of *Giardia Lamblia*, which is common in surface water. *Cryptosporidium* and viruses were not detected in any of the samples. (The table below indicates when

detections were found in each raw water source. Including the table in your water quality report is not required. )

Viruses are treated through disinfection processes. *Cryptosporidium* and *Giardia Lamblia* are removed through disinfection and/or filtration.

Intake location	Giardia Lamblia	Cryptosporidium	Adenovirus	Enterovirsus
Richland-Chambers Reservoir	Not detected	Not detected	Not detected	Not detected
Cedar Creek Lake	March	Not detected	Not detected	Not detected
Lake Benbrook	May	Not detected	Not detected	Not detected
Eagle Mountain Lake	January	Not detected	Not detected	Not detected
Lake Worth	January	Not detected	Not detected	Not detected
Clearfork of Trinity River	January, February, April, May, June	Not detected	Not detected	Not detected

# TCEQ assesses raw water supplies for susceptibility

Fort Worth uses surface water from Lake Worth, Eagle Mountain Lake, Lake Bridgeport, Richland Chambers Reservoir, Cedar Creek Reservoir, Lake Benbrook and the Clear Fork Trinity River.

Fort Worth owns Lake Worth. The U.S. Army Corps of Engineers is responsible for Benbrook Lake. The other four lakes are owned and operated by Tarrant Regional Water District.

The Texas Commission on Environmental Quality completed an assessment of Fort Worth's source waters. TCEQ classified the risk to our source waters as high for most contaminants.

High susceptibility means there are activities near the source water a or watershed make it very likely that chemical constituents may come into contact with the source water. It does not mean that there are any health risks present.

Tarrant Regional Water District, from which Fort Worth purchases its water, received the assessment reports.

For more information on source water assessments and protection efforts at our system, contact Stacy Walters at 817-392-8203.

Further details about the source-water assessments are available in the Texas Commission on Environmental Quality's Drinking Water Watch database at http://dww2.tceq.texas.gov/DWW/JSP/SWAP.jsp?tinwsys\_is\_number=5802&tinwsys\_st\_code=TX&wsnumber=TX2200012%20%20%20 &DWWState=TX.

Fort Worth Water's 2017 water quality data for wholesale customers

'No Source Water Assessment for your drinking water source(s) has been conducted by the TCEQ for your water system. The report describes the susceptibility and the types of constituents that may come into contact with your drinking water source based on human activities and natural conditions. The information in this assessment allows us to focus our source water protection strategies.'

#### **Coliform Bacteria**

Maximum Contaminant Level Goal	Total Coliform Maximum Contaminant Level		Fecal Coliform or E. Coli Maximum Contaminant Level	Total No. of Positive E. Coli or Fecal Coliform Samples	Likely Source of Contamination
0	1 positive monthly sample.	1	Presence in 5% or less of monthly samples	0	Naturally present in the environment. Sample was contaminated during collection. Immediate resampling results were absent of Fecal Coliform or E. Coli bacteria.

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	09/13/2016	1.3	1.3	0.547	0	ppm	Ν	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.
Lead	09/13/2016	0	15	4.1	0	ppb	Ν	Corrosion of household plumbing systems; Erosion of natural deposits.

#### 2017 Water Quality Test Results

	Disinfection By-Products	Collection Date	Highest Level or Average Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Ī	Haloacetic Acids (HAA5)	2017	11	5.2 - 17.8	No goal for the total	60	ppb	Ν	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)	2017	14	8.4 - 12.3	No goal for the total	80	ppb	Ν	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 or Average Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Nitrate [measured as Nitrogen]	2017	0.276	0.241 - 0.276	10	10	ppm		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
Chloramines	2017	2.855	2.4 to 3.18	4	4	ppm	Ν	Water additive used to control microbes.