

# **TERRANOVA WEST M.U.D.**

## *2020 Drinking Water Quality Report*

### **OUR DRINKING WATER IS SAFE**

The Texas Commission on Environmental Quality (TCEQ), has assessed our system and determined that our water is safe to drink. The analysis was made by using the data in the attached tables. Your water meets federal standards set forth by the United States Environmental Protection Agency USEPA. There may not be health based benefits to purchasing bottled water or point of use devices.

### **En Español**

Este informe contiene información importante acerca de su agua potable. Haga que alguien lo traduzca para usted, o hable con alguien que lo entienda.

### **Where do we get our drinking water?**

Our drinking water is obtained from ground water and surface water sources. The ground water comes from the Gulf Coast Aquifers some 500 to 2,000 feet below ground surface. Surface water is supplied by the North Harris County Regional Water Authority and is treated water from Lake Houston. 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 Howard Wilhite at 281-353-9809.

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 (1-800-426-4791).

### **Special Notice for the ELDERLY, INFANTS, CANCER PATIENTS, people with HIV/AIDS or other immune problems:**

You may be more vulnerable than the general population to certain microbial contaminants, such as Cryptosporidium, in drinking water. Infants, some elderly, or Immuno-compromised 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 provider. Additional guidelines on appropriate means to lessen the risk of infection by Cryptosporidium are available from Safe Drinking Water Hotline (800-426-4791).

### **Contaminants that may be Present in Source Water**

The sources of drinking water (both tap 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. Contaminants that may be present in source water include:

- Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic system, agricultural livestock operations, and wildlife;
- Inorganic contaminants, such as salts and metals, which can be naturally occurring or result from urban stormwater, 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 stormwater 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 stormwater runoff, and septic systems; and
- 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, the USEPA prescribes regulations that limits the amount of certain contaminants in water provided by public water systems. Federal Food and Drug Administration Agency regulations establish limits for contaminants in bottled water that must provide the same protection for public health.

**A portion of our drinking water is delivered by wells from underground aquifers that are protected from many of the sources of contamination described.**

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.

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.

EPA website: [www.epa.gov/safewater](http://www.epa.gov/safewater)

**Public input concerning your water system may be made at regularly scheduled meetings on the third Thursday of each month at 6:00 p.m. at the Terranova West Clubhouse, 17623 Moss Point Drive. You may contact Howard Wilhite @ h2o innovation at 281-353-9809 with any concerns.**



### About the Following Table

The following table contains all of the chemical constituents which have been found in your drinking water for the most recent testing performed in accordance with applicable regulations. USEPA requires water systems to test up to 97 constituents. The constituents detected in your water are listed in the attached table.

### DEFINITIONS

**Maximum Contaminant Level (MCL)** - The highest level of a contaminant in drinking water. MCL's are set as close to the MCLG's as feasible using the best available treatment technology.

**Maximum Contaminant Level Goal (MCLG)** - The level of a contaminant in drinking water below which there is no known or expected health risk. MCLG's allow for a margin of safety.

**Action Level** - The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

**ppm** = parts per million or milligrams per liter (mg/l), one part per million corresponds to one minute in two years or a single penny in \$10,000.

**ppb** = parts per billion or micrograms per liter (mg/l), one part per billion corresponds to one minute in 2,000 years or a single penny in \$10,000,000.

**pCi/l** = pico curies per liter: Measure of radioactivity.

**Maximum Residual Disinfectant Level (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.

## Terranova West Municipal Utility District 2020 Drinking Water Quality Report

Inorganic Contaminants							
Year	Constituent	Highest Detected Level at Any Sampling Point	Range of Detected Levels	MCL	MCLG	Units of Measure	Source of Constituent
2020	Barium	0.0916	0.0916 - 0.0916	2	2	ppm	Erosion of natural deposits.
2020	Fluoride	0.20	0.20 - 0.20	4	4	ppm	Erosion of natural deposits.
2020	Nitrate	1.01	1.01 - 1.01	10	10	ppm	Erosion of natural deposits.
2020	Arsenic	3.3	3.3 - 3.3	10	0	ppb	Erosion of natural deposits.
2019	Nitrite	0.45	0.45 - 0.45	1	1	ppm	Erosion of natural deposits.
2020	Cyanide	90	90 - 90	200	200	ppb	Discharge from steel/metal factories

Organic Contaminants							
Year	Constituent	Highest Detected Level at Any Sampling Point	Range of Detected Levels	MCL	MCLG	Units of Measure	Source of Constituent
2020	Total Trihalomethanes	13.3	7.6 - 13.3	80	n/a	ppb	By-product of drinking water chlorination.
2019	Total Haloacetic Acids	15.4	14.5 - 15.4	60	n/a	ppb	By-product of drinking water chlorination.

Radioactive Contaminants							
Year	Constituent	Highest Detected Level at Any Sampling Point	Range of Detected Levels	MCL	MCLG	Units of Measure	Source of Constituent
2009	Gross Alpha	2.7	2.7-2.7	15	0	pCi/l	Erosion of natural deposits.

Unregulated Contaminants**				
Year	Constituent	Average of All Sampling Points	Range of Detected Levels	Units of Measure
2020	Trichloroacetic Acid	2.15	1.6 - 3.3	ppb
2020	Dichloroacetic Acid	10.275	8.0 - 12.7	ppb
2020	Bromochloroacetic Acid	2.175	1.4 - 2.7	ppb
2020	Chloroform	7.8	6.0 - 10.8	ppb
2020	Bromodichloromethane	2.0	1.3 - 2.8	ppb
2020	Monochloroacetic Acid	2.4	2.0 - 2.7	ppb

\*\*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.

Lead and Copper						
Year	Constituent	The 90th Percentile	Number of Sites Exceeding Action Levels	Action Level	Units of Measure	Source of Constituent
2019	Lead	1.97	0	15	ppb	Corrosion of household plumbing system.
2019	Copper	0.0768	0	1.3	ppm	Corrosion of household plumbing system.

The 90th percentile of the Lead/ Copper analysis means the top 10% (highest sample results) of all samples collected.

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. This water supply 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>.

Disinfectant Residual							
Year	Constituent	Highest Average	Range of Detected Levels	MCL	MCL G	Units of Measure	Source of Constituent
2020	Chlorine Disinfectant	3.08	1.56 - 4.3	4	0	ppm	Disinfectant used to control microbes.

Organic Contaminants							
Year	Constituent	Highest Detected Level at Any Sampling Point	Range of Detected Levels	MCL	MCLG	Units of Measure	Source of Constituent
2020	Atrazine	0.23	0.23 - 0.23	3	3	ppb	Runoff from herbicides used on row crops.
2020	Simazine	0.16	0.16 - 0.16	4	4	ppb	Runoff from herbicides used on row crops.

**During 2020 Terranova West M.U.D. received water from Louetta Road Utility District. The following is the water quality information provided by Louetta Road Utility District:**

Organic Contaminants							
Year	Constituent	Highest Detected Level at Any Sampling Point	Range of Detected Levels	MCL	MCLG	Units of Measure	Source of Constituent
2019	Total Trihalomethanes	6.1	6.1 - 6.1	80	n/a	ppb	By-product of drinking water chlorination.
2020	Total Haloacetic Acid	1.0	1.0 - 1.0	60	n/a	ppb	By-product of drinking water chlorination.

Unregulated Contaminants**				
Year	Constituent	Average of All Sampling Points	Range of Detected Levels	Units of Measure
2019	Chloroform	6.1	6.1 - 6.1	ppb
2017	Bromodichloromethane	1.8	1.8 - 1.8	ppb
2019	Bromochloroacetic Acid	1.3	1.3 - 1.3	ppb
2019	Dichloroacetic Acid	10.8	10.8 - 10.8	ppb
2019	Trichloroacetic Acid	2.0	2.0 - 2.0	ppb
2020	Dibromoacetic Acid	1.0	1.0 - 1.0	ppb

Inorganic Contaminants							
Year	Constituent	Highest Detected Level at Any Sampling Point	Range of Detected Levels	MCL	MCLG	Units of Measure	Source of Constituent
2019	Barium	0.241	0.241-0.241	2	2	ppm	Erosion of natural deposits.
2018	Fluoride	0.74	0.74-0.74	4	4	ppm	Erosion of natural deposits.
2019	Nitrate	0.06	0.06-0.06	10	10	ppm	Erosion of natural deposits.
2017	Cyanide	0.03	0.03-0.03	200	200	ppb	Discharge from steel/metal factories
2019	Arsenic	2.3	2.3-2.3	50	0	ppb	Erosion of natural deposits.
2019	Chromium	11.4	11.4 - 11.4	100	100	ppb	Discharge from steel/metal factories.
2019	Selenium	5.0	5.0 - 5.0	50	50	ppb	Erosion of natural deposits.

\*\*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.

Disinfectant Residual							
Year	Constituent	Highest Average	Range of Detected Levels	MCL	MCLG	Units of Measure	Source of Constituent
2020	Chlorine Disinfectant	2.9	0.51 - 4.2	4	0	ppm	Disinfectant used to control microbes.

Lead and Copper							
Year	Constituent	The 90th Percentile	Number of Sites Exceeding Action Levels	Action Level	Units of Measure	Source of Constituent	
2019	Lead	2.61	1	15	ppb	Corrosion of household plumbing system.	
2019	Copper	0.0153	0	1.3	ppm	Corrosion of household plumbing system.	

The 90th percentile of the Lead/ Copper analysis means the top 10% (highest sample results) of all samples collected.

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. This water supply 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>.

**During 2020 Terranova West M.U.D. received surface water from the North Harris County Regional Water Authority. The following is a compilation of the water quality information provided by the North Harris County Regional Water Authority:**

Inorganic Contaminants							
Year	Constituent	Highest Detected Level at Any Sampling Point	Range of Detected Levels	MCL	MCLG	Units of Measure	Source of Constituent
2020	Barium	0.0640	0.0640 - 0.0640	2	2	ppm	Erosion of natural deposits.
2020	Nitrate	0.12	0.12 - 0.12	10	10	ppm	Erosion of natural deposits.
2020	Fluoride	0.11	0.11 - 0.11	4	4	ppm	Erosion of natural deposits.

Radioactive Contaminants							
Year	Constituent	Highest Detected Level at Any Sampling Point	Range of Detected Levels	MCL	MCLG	Units of Measure	Source of Constituent
2012	Gross Alpha	2.6	2.6 - 2.6	15	0	pCi/l	Erosion of natural deposits.
2018	Combined Radium	1.10	1.10 - 1.10	5	0	pCi/l	Erosion of natural deposits.

Turbidity**							
Year	Constituent	Average of All Sampling Points	Range of Detected Levels	Monthly Limits	Units of Measure	Source of Constituent	
2020	Turbidity	0.21	0.05 - 0.21	0.3	NTU	Soil runoff.	

\*\*Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organism. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea and associated headaches.

Organic Contaminants							
Year	Constituent	Highest Detected Level at Any Sampling Point	Range of Detected Levels	MCL	MCLG	Units of Measure	Source of Constituent
2020	Atrazine	0.61	0.61 - 0.61	3	3	ppb	Runoff from herbicides used on row crops.

### Unregulated Contaminants\*\*

Year	Constituent	Average of All Sampling Points	Range of Detected Levels	Units of Measure
2020	Chloroform	8.5	8.5 - 8.5	ppb
2018	Bromochloroacetic Acid	5.5	5.5 - 5.5	ppb
2018	Dichloroacetic Acid	19.4	19.4 - 19.4	ppb
2016	Monochloroacetic Acid	10.5	10.5 - 10.5	ppb
2016	Trichloroacetic Acid	4.8	4.8 - 4.8	ppb
2020	Bromodichloromethane	1.5	1.5 - 1.5	ppb

\*\*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.

### Organic Contaminants

Year	Constituent	Highest Detected Level at Any Sampling Point	Range of Detected Levels	MCL	MCLG	Units of Measure	Source of Constituent
2016	Total Trihalomethanes	32	32-32	80	n/a	ppb	By-product of drinking water chlorination.
2016	Total Haloacetic Acids	34.7	34.7-34.7	60	n/a	ppb	By-product of drinking water chlorination.

### Consecutive Systems Public Notice

The Texas Commission on Environmental Quality (TCEQ) sets minimum water quality standards for the public drinking water. These standards include enforceable treatment technique requirements for drinking water. Inadequately treated water may contain disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.

The City of Houston (City), PWS ID TX1010013, failed to meet the minimum treatment technique requirements during October, November, and December 2017. Specifically, the City had low disinfectant (Total Chlorine) residuals in more than 5% of the monthly samples for two consecutive months.

**This information is being provided because a portion of the water supplied to you may originate in the City's water system. However, prior to reaching consumers the water is further tested and treated by the North Harris County Regional Water Authority (NHCRWA). In this instance, test results from the NHCRWA during the City's noncompliance period indicate that despite the City's violation, the water provided by the NHCRWA met the chlorine disinfectant residual level requirements.**

Please share this information with all people who drink this water, especially those who may not have received this notice directly (i.e., people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or Distributing copies by hand or mail.

If you have any questions regarding this matter, you may contact Vanessa Chapa, Environmental Compliance Advisor at (281) 578-4268.

**The drinking water produced by Your District exceeds the minimum water quality standards as established by the USEPA.**

**Our water is safe to drink.**