2019 CONSUMER CONFIDENCE REPORT (CCR) Harris County MUD #537

(PWS ID: TX1011741)

Annual Water Quality Report for the period of January 1 to December 31, 2019

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.



Is my water safe?

In order to ensure that tap water is safe to drink, the EPA prescribes regulations that 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. 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. Contaminants that may be present in sources 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, 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.

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 immune-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 and other microbial contaminants are available from the Safe Drinking Water Hotline at (800)426-4791.

ALL drinking water may contain contaminants

When drinking water meets federal standards there may not be any health based benefits to purchasing bottled water or point of use devices. 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).

Information about Unregulated Contaminants

Unregulated contaminants are those for which the 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 regulations are warranted. Many constituents (such as calcium, sodium, or iron) which are often found in drinking water can cause taste, color, and odor problems but are not necessarily causes for health concerns. For more information on taste, odor, or color of drinking water, please contact the systems business office.

En Español

Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, favor de llamar al teléfono (281)807-9500.

In the last water loss audit submitted to the Texas Water Development Board for the time period of Jan-Dec 2019, our system lost an estimated 28,060 gallons of water, which is equivalent to about 0.25% of total gallons purchased. If you have any questions about the water loss audit please call TOPS at 281-807-9500.

Where do we get our drinking water?

The source of drinking water used by Harris County MUD 537 is purchased surface water from the City of Houston. The water comes from the East Water Purification Plant. 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 system(s) from which we purchase our water received the assessment report. For more information on source water assessments and protection efforts at our system, contact TOPS.

Harris County MUD 537 was on interconnect with the City of Houston to supply the drinking water for all of 2019. Attached you will find a table of the regulated contaminants that were detected in 2017 from the City of Houston.

PUBLIC PARTICIPATION OPPORTUNITIES

DATE: BOARD OF DIRECTORS GENERALLY

MEET ON THE SECOND MONDAY OF

EVEN NUMBERED MONTHS.

TIME: 12:00 P.M.

LOCATION: 1980 POST OAK BLVD. SUITE 1380

HOUSTON, TX 77056 PHONE: 281-807-9500

To learn about future public meetings (concerning your drinking water), or to request one be scheduled, please call us or email us at customerservice@topswater.com.

Why is tap water superior to bottled?

- * In most cases manufacturers are not required to stop bottling or alert the public when tests show contamination.
- * Bottled water is largely self-policed and decisions on recalls are often based on cost instead of risk to the public.
- * Though 50% of bottled water is just reprocessed tap water the cost is approximately 2,000 times more.
 - * Chemicals from plastic bottles leach into your drinking water.
- * Drinking tap keeps your local dollars local to improve infrastructure in your area.
- * Drinking tap water can keep up to 35 billion plastic bottles out of landfills annually.

The State of Texas monitors for some contaminants less than once per year because the concentrations of these contaminants do not change frequently.

Regulated Contaminants

Disinfectants and Disinfection By- Products	Collection Date	Your Water	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Total Trihalomethanes (TTHM)	2019	33.2	33.2 – 33.2	No goal for the total	80	ppb	N	By-product of drinking water disinfection.
Haloacetic Acids (HAA5)	2019	9.5	9.5 – 9.5	No goal for the total	60	ppb	N	By-product of drinking water disinfection.
Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Nitrate [measured as Nitrogen]	2019	0.46	0.46 – 0.46	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.

Unregulated Contaminants

Unregulated Contaminants	Collection Date	Your Water	Lowest Level Detected	Highest Level Detected	Units
Chlorodibromomethane	2019	3.4	3.4	3.4	ppb
Chloroform	2019	19.6	19.6	19.6	ppb
Bromodichloromethane	2019	10.2	10.2	10.2	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

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. WEST HARRIS COUNTY MUD 10 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.

Lead/ Copper	Year	MCLG	Action Level	The 90 th Percentile	# of Sites Over AL	Units	Was This a Violation	Likely Source of Contaminant	
Copper	2017	1.3	1.3	0.169	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.	

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 IN PLUMBING MATERIALS.

Maximum Residual Disinfectant Level

Year	Disinfectant	Minimum Level	Average Level	Maximum Level	MRDL	MRDLG	Unit of Measure	Source of Chemical
2019	Chloramine	0.52	1.6	3	4.0	< 4.0	ppm	Disinfectant added to control microbes

TOTAL COLIFORM-NONE DETECTED
FECAL COLIFORM-NONE DETECTED
TURBIDITY — NOT REQUIRED

ORGANIC CONTAMINANTS — NOT TESTED FOR OR NOT DETECTED

UNREGULATED CONTAMINANTS — NOT TESTED FOR OR NOT DETECTED

E.COLI - NONE DETECTED

Abbreviations and Definitions

PPQ - parts per quadrillion, or picograms per liter

NTU - Nephelometric Turbidity Units

MFL - million fibers per liter (a measure of asbestos)

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

PPM - parts per million, or milligrams per liter (mg/L) **PPB** - parts per billion, or micrograms per liter (ug/L)

PPT - parts per trillion, or nanograms per liter

Maximum Residual Disinfectant Level Goal (MRDLG) – 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 contamination.

Maximum Residual Disinfectant level(MRDL) –The highest level of disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant in necessary for control of microbial contaminants.

Maximum Contaminant Level (MCL) – The highest permissible level of a contaminant in drinking water. MCLs are set as close to the MCLGs 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. MCLGs allow for a margin of safety.

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

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 contaminant in drinking water below which there is not known or expected risk to health. ALGs allow for a margin of safety.

MREM/year- millirems per year (a measure of radiation absorbed by the body)

NA - not applicable

Maximum Residual Disinfectant level (MRDL) — The highest level of 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 (MRDLG) – 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 contamination.

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.

If a water system has performed additional monitoring which indicates the presence of other contaminants in the finished water, TCEQ recommends that systems find out if EPA has proposed a National Primary Drinking Water Regulation or issued a health advisory for that contaminant by calling the Safe Drinking Water Hotline (800-426-4791). TCEQ considers detects above a proposed MCL or health advisory level to indicate possible health concerns. To learn more about your water, please refer to the Source Water Assessment Viewer available at the following URL: <a href="http://gis3.tceq.state.tx.us/swav/Controller/index.jsp?wtrsrc="http://gis3.tceq.state.tx.u

City of Houston – EP101

Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Barium	2019	0.0226	0.0226 - 0.0226	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Cyanide	2019	10	10 - 10	200	200	ppb	N	Discharge from steel/metal factories; Discharge from plastic and fertilizer factories.
Fluoride	2019	0.12	0.12 - 0.12	4	4	ppm	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Organic Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Atrazine	2019	0.1	0.10 - 0.10	3	3	ppb	N	Runoff from herbicides used on row crops.

City of Houston - EP055 Katy Addicks

Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Organic Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Runoff from herbicide used on row crops.

Year: 2019

Katy Addicks (EP055) Spring Branch(EP082) EWPP 3 (EP101)

Monitored at Water Plants

Monitor ca ac													
CONTAMINANT	MCL	MCLG	EP055		EF	EP101	MIN	AVG	MAX				
				1	2	3	4						
ARSENIC (MG/L)	0.01	0	N/A	ND	0.0053	ND	ND	ND	ND	0.0011	0.0053		
ATRAZINE (UG/L)	3	3	ND	0.12	N/A	N/A	N/A	0.1	ND	0.0733	0.12		
BARIUM (MG/L)	2	2	N/A	0.037	N/A	N/A	N/A	0.0226	0.0226	0.0298	0.037		
CYANIDE (MG/L)	0.2	0.2	N/A	0.06	N/A	N/A	N/A	0.01	0.01	0.035	0.06		
FLUORIDE (MG/L)	4	4	N/A	0.27	N/A	N/A	N/A	0.12	0.12	0.195	0.27		
NITRATE (MG/L)	10	10	ND	0.68	N/A	N/A	N/A	0.22	ND	0.3	0.68		
SIMAZINE (UG/L)	4	4	ND	0.16	N/A	N/A	N/A	ND	ND	0.0533	0.16		

Secondary Standards

CONTAMINANT	SCL	EP055	EP082	EP101	MIN	AVG	MAX
ALUMINUM (MG/L)	0.2	N/A	0.0227	0.0285	0.0227	0.0256	0.0285
CHLORIDE (MG/L)	250	N/A	25	16	16	20.5	25
FLUORIDE (MG/L)	2	N/A	0.27	0.12	0.12	0.195	0.27
IRON (MG/L)	0.3	N/A	0.011	ND	ND	0.0055	0.011
MANGANESE (MG/L)	0.05	N/A	0.0049	ND	ND	0.0024	0.0049
PH (SU)	8.5	N/A	7.7	8.3	7.7	8	8.3
SULFATE (MG/L)	250	N/A	35	31	31	33	35
TDS (MG/L)	500	N/A	184	138	138	161	184
ZINC (MG/L)	5	N/A	0.015	ND	ND	0.0075	0.015

EWPP3

Lowest Monthly Percentage of Samples ≤ 0.3 NTU: 0.96 Yearly Maximum [NTU]: 0.52

Yearly Maximum [NTU]: Jan Feb Mar Apr May Nov Dec 186 166 186 180 186 180 186 186 180 180 186 0.16 0.16 0.14 0.12 0.11 0.14 0.11 0.11 0.1 0.11 0.12 0.10 0.52 0.18 0.26 0.24 0.25 0.18 0.33 0.30 0.20 0.18 0.17 0.19 100% 100% 96% 100% 100% 100% 100% 100% 100% 100% 100% 100%

City of Houston - EP082 Spring Branch

Month

of Monthly Turbidity Samples

Average Turbidity [NTU]

Max Turbidity Reading [NTU]

% ≤ 0.3 NTU

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Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Arsenic	2019	0.0053	0.0053 - 0.0053	0	10	ppb	N	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes.
Atrazine	2019	0.12	0.12 - 0.12	3	3	ppb	N	Runoff from herbicides used on row crops.
Simazine	2019	0.16	0.16 - 0.16	4	4	ppb	N	Herbicide runoff
Fluoride	2019	0.027	0.027 - 0.027	4	4	ppm	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Cyanide	2019	60	60 - 60	200	200	ppb	N	Discharge from steel/metal factories; Discharge from plastic and fertilizer factories.
Barium	2019	0.037	0.037 - 0.037	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Lead/ Copper	Year	MCLG	Action Level	The 90 th Percen tile	# of Sites Over AL	Units	Was This a Violation	Likely Source of Contaminant
Copper	2019	0.0027	1.3	0.169	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.