

# City of Hilshire Village

## 2016 Drinking Water Quality Report

DEAR CUSTOMER:

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.

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.

Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care provider. EPA/CDC 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.

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 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>.

The source of drinking water used by City of Hilshire Village is purchased water from the City of Houston. 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 contaminants 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 Bob Ring, Severn Trent Services.

For more information about your sources of water, please refer to the Source Water Assessment Viewer available at the following: <http://www.tceq.texas.gov/gis/swview>

Further details about sources and source water assessments are available in Drinking Water Watch at the following URL: <http://dww2.tceq.texas.gov/DWWW/>

The sources of drinking water (both tap water and bottled water) generally 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 contaminants that may be present in source water:

1) Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and 2) 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. 3) Pesticides and herbicides, which may come from a variety of sources such

as agriculture, urban stormwater runoff, and residential uses. 4) 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. 5) Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining 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.

Many constituents (such as calcium, sodium, or iron) which are often found in drinking water can cause taste, color, and odor problems. The taste and odor constituents are called secondary constituents and are regulated by the State of Texas, not the EPA. These constituents are not causes for health concern. Therefore, secondaries are not required to be reported in this document but they may greatly affect the appearance and taste of your water. The pages that follow list all of the federally regulated or monitored contaminants which have been found in your drinking water. The U.S. EPA requires water systems to test for up to 97 contaminants.

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 district's operator, Severn Trent Services.

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).

Public input concerning the water system may be made at regularly scheduled meetings, generally held at 6:00 PM on 2nd & 4th Tuesday of the month at City Hall, 8301 Westview, Houston, Texas 77055. You may also contact Bob Ring, Severn Trent Services, at 832-886-0611 with any concerns or questions you may have regarding this report.

Este reporte incluye informacion importante sobre el agua para tomar. Si tiene preguntas o discusiones sobre este reporte en espanol, favor de llamar al tel. (281) 579-4507 para hablar con una persona bilingue en espanol.

### **Definitions & Abbreviations:**

**Maximum Contaminant Level Goal (MCLG):** 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 Contaminant Level (MCL):** The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to MCLGs as feasible using the best available treatment technology.

**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 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.

**Action Level (AL):** The concentration of a contaminant, which, if exceeded, triggers treatment or other requirements that a water system must follow.

**Parts per million (ppm):** The equivalent of milligrams per liter (mg/l) is analogous to 1 minute in 2 years.

**Parts per billion (ppb):** The equivalent of micrograms per liter (µg/l) is analogous to 1 second in 32 years.

**Picocuries per liter (pCi/L):** A measure of radioactivity.

**N/A:** Not applicable.

**NTU:** Nephelometric Turbidity Units.



Substance	Unit of Measure	Year	MCL	Average Level Detected	Minimum - Maximum Level Detected	MCLG	In Compliance	Typical Sources
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**Unregulated Contaminants**

Dibromochloromethane	ppb	2016	N/A	1.25	0 - 2.5	N/A	Yes	By-product of drinking water disinfection.
Chloroform	ppb	2016	N/A	22.2	17.1 - 32	N/A	Yes	By-product of drinking water disinfection.
Bromodichloromethane	ppb	2016	N/A	6.18	3.6 - 8	N/A	Yes	By-product of drinking water disinfection.

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.

**Inorganic Contaminants (Regulated at the Water Plant)**

Nitrate	ppm	2016	10	1.03	1.03 - 1.03	10	Yes	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits.
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**Disinfectant Byproducts**

Haloacetic Acids (HAA5)	ppb	2016	60	12.35	7.5 - 16.3	0	Yes	By-product of drinking water disinfection.
Total Trihalomethanes	ppb	2016	80	29	22.8 - 38.4	0	Yes	By-product of drinking water disinfection.

Substance	Unit of Measure	Year	MRDL	Average Level Detected	Minimum - Maximum Level Detected	MRDLG	In Compliance	Typical Sources
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**Maximum Residual Disinfectant Level**

Chlorine Residual	ppm	2016	4.0	1.48	0.95 - 1.92	4.0	Yes	Water additive used to control microbes.
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Substance	Unit of Measure	Year	90th Percentile Value	EPA Action Level	Number of Results above Action Level	MCLG	In Compliance	Typical Sources
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**Lead and Copper (Regulated at Customers Tap)**

Lead	ppb	2016	16.4	15	3	0	No	Corrosion of household plumbing systems; erosion of natural deposits.
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Infants and young children are typically more vulnerable to lead in drinking water than the general population. It is possible that lead levels at your home may be higher than at the homes in the community as a result of materials used in your home's plumbing. If you are concerned about elevated lead levels in your home's water, you may wish to have your water tested and flush your tap for 30 seconds to two minutes before using tap water. Additional information is available from the Safe Drinking Water Hotline at (800) 426-4791.

Copper	ppm	2016	0.9	1.3	1	1.3	Yes	Corrosion of household plumbing systems, erosion of natural deposits; leaching from wood preservatives.
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**VIOLATIONS**

**Violation Type**

**Duration**

INITIAL/FOLLOW-UP/ROUTING SOWT M/R

04/01/2016 to 12/31/2016

**Health Effects**

The Lead and Copper Rule protects public health by minimizing lead and copper in drinking water, primarily by reducing water corrosivity. Lead and copper enter drinking water mainly from corrosion of lead and copper containing plumbing materials.

**Explanation**

We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated.

**Steps to Correct**

All required sampling has been performed and results submitted to the TCEQ.

OCCT/SOWT RECOMMENDATION/STUDY (LCR)

03/31/2016 to 12/31/2016

**Health Effects**

The Lead and Copper Rule protects public health by minimizing lead and copper in drinking water, primarily by reducing water corrosivity. Lead and copper enter drinking water mainly from corrosion of lead and copper containing plumbing materials.

**Explanation**

we failed to propose treatment to our regulator in response to results that indicate our water needs treatment to reduce lead and/or copper levels.

**Steps to Correct**

Treatment recommendation was submitted after the due date to the TCEQ as a result of increased sampling that was performed on both the source water and in the distribution system.

WATER QUALITY PARAMETER M/R (LCR)

07/01/2016 to 12/31/2016

**Health Effects**

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.

**Explanation**

We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated.

**Steps to Correct**

All water quality parameter samples were collected as required and results were submitted to the TCEQ with a corrosion control study

Public Notification Rule

03/31/2016 to 10/5/2016

**Health Effects**

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).

**Explanation**

We failed to adequately notify you, our drinking water consumers, about a violation of the drinking water regulations.

**Steps to Correct**

Public notices were distributed to all residents after the due date. The process for this reporting has been reviewed and procedures have been put in place to prevent this from happening in the future.



**Our Water Supply System Received Water From  
City of Houston  
Water Quality Results are Listed Below**

Substance	Unit of Measure	Year	MCL	Average Level Detected	Minimum - Maximum Level Detected	MCLG	In Compliance	Typical Sources
<b>Radioactive Contaminants (Regulated at the Water Plant)</b>								
Combined Radium	pCi/L	2015	5	2.32	1.5 - 3.2	0	Yes	Erosion of natural deposits.
Uranium	pCi/L	2015	30	3.57	1.4 - 7.8	0	Yes	Erosion of natural deposits.
Gross Alpha	pCi/L	2015	15	7.56	3 - 10.4	0	Yes	Erosion of natural deposits.
Gross Beta	pCi/L	2015	50	4.93	4.6 - 5.6	0	Yes	Decay of natural and man-made deposits.
<b>Synthetic Organic Contaminants Including Pesticides and Herbicides</b>								
Di(2-ethylhexyl)phthalate	ppb	2016	6	0.38	0 - 0.75	6	Yes	Discharge from rubber and chemical factories.
Simazine	ppb	2016	4	0.09	0 - 0.13	4	Yes	Herbicide runoff.
Atrazine	ppb	2016	3	0.27	0 - 0.77	3	Yes	Runoff from herbicide used on row crops.
<b>Volatile Organic Contaminants</b>								
Xylenes	ppm	2016	10	0.0011	0 - 0.0022	10	Yes	Discharge from petroleum factories.
<b>Unregulated Contaminants</b>								
Dibromochloromethane	ppb	2016	N/A	1.56	0 - 3	N/A	Yes	By-product of drinking water disinfection.
Metolachlor	ppm	2016	N/A	0.000146	0 - 0.00023	N/A	Yes	Broad spectrum herbicide used for general weed control in non-crop areas; widely used on crops such as corn, cotton, peanuts, grass for seed production, nurseries, hedgerows/fencerows, and landscape plantings.
Chloroform	ppb	2016	N/A	15.46	0 - 34	N/A	Yes	By-product of drinking water disinfection.
Bromoform	ppb	2016	N/A	0.64	0 - 2.2	N/A	Yes	By-product of drinking water disinfection.
Bromodichloromethane	ppb	2016	N/A	4.79	0 - 9.2	N/A	Yes	By-product of drinking water disinfection.
1,2,3-Trichloropropane	ppm	2016	N/A	0.00006	0.00006 - 0.00006	N/A	Yes	
<p>Availability of Unregulated Contaminant Monitoring Rule Data (UCMR)            We participated in gathering data under the UCMR in order to assist EPA in determining the occurrence of possible drinking water contaminants. If any unregulated contaminants were detected, they are shown in the tables elsewhere in this report. This data may also be found on EPA's web site at <a href="http://www.epa.gov/safewater/data/ncod.html">http://www.epa.gov/safewater/data/ncod.html</a>, or you can call the Safe Drinking Water Hotline at 1-800-426-4791</p> <p>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.</p>								
<b>Inorganic Contaminants (Regulated at the Water Plant)</b>								
Nitrate	ppm	2016	10	0.21	0 - 0.81	10	Yes	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits.
Fluoride	ppm	2016	4	0.33	0 - 0.76	4	Yes	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories.
Cyanide	ppb	2016	200	14	0 - 40	200	Yes	Discharge from plastic and fertilizer factories; discharge from steel/metal factories.
Arsenic	ppb	2016	10	3.01	0 - 9.2	0	Yes	Erosion of natural deposits; runoff from orchards; runoff from glass, and electronics production wastes.
Barium	ppm	2016	2	0.19	0.0403 - 0.4	2	Yes	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits.
Selenium	ppb	2016	50	4.74	0 - 9.4	50	Yes	Erosion of natural deposits.



Substance	Unit of Measure	Year	MCL	Average Level Detected	Minimum - Maximum Level Detected	MCLG	In Compliance	Typical Sources
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**Turbidity**

Turbidity	NTU	2016	1	0.41	0.07 - 0.74	N/A	Yes	Soil runoff.
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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 organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea and associated headaches.