Annual Drinking Water Quality Report

TX1010007 CITY OF DEER PARK

Annual Water Quality Report for the period of January 1 to December 31, 2015

This report is intended to provide you with important information about your drin king water and the efforts made by the water system to provide safe drinking w ater.

For more information regarding this report contact:

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CITY OF DEER PARK is Purchased Surface Water

Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, favor de llamar al telefono (281) 478-7254 (Al Garces).

Sources of 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 su rface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pickup substances resulting fro m 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 doe s not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPAs S afe 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 wil dlife.

- Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban storm water runoff, industrial or domestic wastewater d ischarges, 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, an d 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 syst ems. 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 conc erns. 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 i mmunocompromised persons such as those undergoing chemotherapy for cancer; persons who have undergone organ transplants; those who are undergoing tre atment with steroids; and people with HIV/AIDS or other immune system disorders, can be particularly at risk from infections. You should seek advice about drinki ng water from your physician or health care providers Additional guidelines on appropriate means to lessen the risk of infection by Cryptosporidium are available f rom 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 t he 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 flu shing 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 w ater 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 Assessments

A Source Water Susceptibility Assessment for your drinking water source(s) is currently being updated by the Texas Commission on Environmental Quality. This information describes the susceptibility and typ es of constituents that may come into contact with your drinking water source based on human activities and natural conditions. The information contained in the assessment allows us to focus source water pr otection strategies.

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/swaview

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

Source Water Name		Type of Water	Report Status	Location
UNTREATED SW FROM S1010013B THR U	CC FROM TX1010013 CITY O F HOUSTON	SW	Y	COASTAL WATER AUTHORITY- Lynchburg Reservoir

The TCEQ completed an assessment of your source water and results indicate that some of your sources are susceptible to certain contaminants. The sampling requirements for your water system are based on this susceptibility and previous sample data. Any detection of these contaminants may be found in this Consumer Confident Report. For more information on source water assessments and protection efforts at our system, contact Carl Stevens at 281-478-7204.

Deer Park gets surface water from the Trinity River via Lake Livingston. This water is purchased from the City of Houston through the Coastal Water Authority. The City of Houston provides an assessment bimonthly of the water that comes from the reservoir, located north of Lynchburg Landing. Besides surface water, the City of Deer Park maintains three (3) wells on standby. These wells would be used on an emergency basis if the raw water supply should be interrupted for any reason. These wells draw from the Gulf Coast Aquifer.

There are many opportunities available to learn more about the City of Deer Park, Public Works, and water quality. For questions or concerns about water quality, call 281-478-7204. To request a speaker for your group, call 281-478-7253. The Public Works Department is part of city government. City Council meets the first and third Tuesday each month in the Council Chambers at City Hall located at 710 East San Augustine at 7:30 P.M.

Lead and Copper

Definitions:

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

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	08/28/2013	1.3	1.3	0.18	0	ppm	Ν	Erosion of natural deposits; Leaching from woo d preservatives; Corrosion of household plumbing systems.
Lead	08/28/2013	0	15	1.32	1	ppb	Ν	Corrosion of household plumbing systems; Ero- ion of natural deposits.

Water Quality Test Results

Definitions:	The following tables contain scientific terms and measures, some of which may require explanation.
Avg:	Regulatory compliance with some MCLs are based on running annual average of monthly samples.
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 t echnology.
Maximum Contaminant Level Goal or 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 residual disinfectant level or 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 micro bial contaminants.
Maximum residual disinfectant level goal or 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 disi nfectants to control microbial contaminants.
MFL	million fibers per liter (a measure of asbestos)
na:	not applicable.
NTU	nephelometric turbidity units (a measure of turbidity)
pCi/L	picocuries per liter (a measure of radioactivity)

Water Quality Test Results

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.
ppt	parts per trillion, or nanograms per liter (ng/L)
ррд	parts per quadrillion, or picograms per liter (pg/L)

Regulated Contaminants

Disinfectants and Disinfecti on By-Products	Collection Date	Highest Level Detec ted	Range of Levels Det ected	MCLG	М	ICL	Units	Violation	Likely Source of Contamination
Haloacetic Acids (HAA5)*	2015	28	6.3 - 55	No goal for the to tal	60		ppb	N	By-product of drinking water disinfection.
Total Trihalomethanes (TT HM)	2015	19	12.4 - 29	No goal for the to tal	80		ppb	N	By-product of drinking water disinfection.
Inorganic Contaminants	Collection Date	Highest Level Detec ted	Range of Levels Det ected	MCLG	М	ICL	Units	Violation	Likely Source of Contamination
Barium	01/12/2011	0.0325	0.0312 - 0.0325	2	2		ppm	N	Discharge of drilling wastes; Discharge from met al refineries; Erosion of natural deposits.
Cyanide	12/15/2014	100	100 - 100	200	200		ррb	N	Discharge from plastic and fertilizer factories; Dis charge from steel/metal factories.
Fluoride	05/01/2014	0.32	0.3 - 0.32	4	4.0		ppm	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Nitrate [measured as Nitrog en]	2015	1	0.57 - 0.64	10	10		ppm	N	Runoff from fertilizer use; Leaching from septic ta nks, sewage; Erosion of natural deposits.
Nitrite [measured as Nitrog en]	2015	0.02	0.02 - 0.02	1	1		ppm	N	Runoff from fertilizer use; Leaching from septic ta nks, sewage; Erosion of natural deposits.
Radioactive Contaminants	Collection Date	Highest Level Detec ted	Range of Levels Det ected	MCLG	М	ICL	Units	Violation	Likely Source of Contamination
Beta/photon emitters	01/12/2011	5	0 - 5	0	50		pCi/L*	N	Decay of natural and man-made deposits.

*EPA considers 50 pCi/L to be the level of concern for beta particles.

Combined Radium 226/228	01/12/2011	1	1 - 1	0	5	pCi/L	Ν	Erosion of natural deposits.
Synthetic organic contamin ants including pesticides a nd herbicides	Collection Date	Highest Level Detec ted	Range of Levels Det ected	MCLG	MCL	Units	Violation	Likely Source of Contamination

Atrazine	2015	0.13	0.11 - 0.13	3	3	ppb	N	Runoff from herbicide used on row crops.
Di (2-ethylhexyl) phthalate	2015	8	0 - 7.5	0	6	ppb	N	Discharge from rubber and chemical factories.

Turbidity

	Limit (Treatment Techniqu e)	Level Detected	Violation	Likely Source of Contamination
Highest single measurement	1 NTU	0.31 NTU	Ν	Soil runoff.
Lowest monthly % meeting limit	0.3 NTU	100%	N	Soil runoff.

Information Statement: 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 our filt ration

Total Organic Carbon

The percentage of Total Organic Carbon (TOC) removal was measured each month and the system met all TOC removal requirements set, unless a TOC violation is noted in the violations section.

Disinfection Residual Table

Disinfectant	Year	Average L evel	Minimum Le vel	Maximum L evel	MRDL	MRDLG	Unit of Meas ure	Violation (Y/ N)	Likely Source of Contamination
Chloramines	2015	2.8	0.6	3.5	4.0	4.0	ppm	N	Water additive used to control microbes.

Violations Table

Consumer Confidence Rule							
The Consumer Confidence Rule requires community water systems to prepare and provide to their customers annual consumer confidence reports on the quality of the water delivered by the systems.							
Violation Type	Violation Begin	Violation End	Violation Explanation				
CCR REPORT	07/01/2014	06/22/2015	We failed to provide to you, our drinking water customers, an annual report that informs you about the quality of our drinking water and characterizes the risks from exposure to contaminants detected in our drinking water. The report was made available in the correct timeframe, but the URL address was not a direct link to the report.				