

2015 DRINKING WATER QUALITY REPORT

CITY OF JERSEY VILLAGE

TX1010016



Your Drinking Water Is Safe

It is the highest priority of the City of Jersey Village to provide you and your family with a dependable supply of safe drinking water. The Texas Commission on Environmental Quality (TCEQ) has assessed the quality of the water we provide our customers. The analysis was made by using the data from the most recent U.S. Environmental Protection Agency (EPA) required tests and is presented in the attached pages. We hope this information helps you become more knowledgeable about what is in your drinking water. This report is sent to you pursuant to EPA regulations and the Safe Drinking Water Act and will be sent to you each year.

Where Do We Get Our Water?

Our Drinking water is obtained from both groundwater and surface water sources. Our groundwater comes from the Gulf Coast Aquifer, Evangeline aquifer, and the surface water comes from the City of Houston. The Texas Commission on Environmental Quality 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 are based on this susceptibility and previous sample data. Any detection of

these contaminants will be found in this Consumer Confidence report. For more information on source water assessments and protection efforts contact Kevin Hagerich Director of Public Works at (713)466-2107.

En Espanol:

Este informe incluye informacion importante sobre el agua potable. Si tiene preguntas o comentarios sobre este informe en espanol, favor de llamar at tel. (713) 466-2133 para hablar con una persona bilingue en espanol.

Public Participation Opportunities

Date: Monday – Friday

Time: 8:00AM – 5:00PM

Location: 16327 Lakeview Dr.

To learn about future public meetings (concerning your drinking water), or to request to schedule one please call us.

Water Loss

In the water loss audit submitted to the Texas Water Development Board for the time period of January – December 2014 our system lost an estimated 32,189,803 gallons of water. If you have any questions about the water loss audit please call Public Works at 713-466-2107.

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 immune – compromised persons such as those undergoing chemotherapy for cancer; those who have undergone organ

transplants, those who have 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 the **Safe Drinking Water Hotline (800) 426-4791.**

ALL Drinking Water May Contain Contaminants

Since your 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 Environmental Protection Agency's **Safe Drinking Water Hotline (800-426-4791).**

About The Following Pages

The pages that follow list all of the federally regulated or monitored constituents which have been found in your drinking water.

Secondary Constituents

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 concerns. Therefore, secondary's are not required to be reported in this document but they may greatly affect the appearance and taste of your water.

Definitions:

Maximum Contaminant Level

(MCL) – The highest permissible level of a contaminant in drinking water. MCL 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.

Maximum Residual Disinfection Level

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

Maximum Residual Disinfection Level Goal

(MRDLG) – The level of drinking water

disinfectant below which there is known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contamination.

(TT) – A required process intended to reduce the level of a contaminant in the drinking water.

Action Level

(AL) – 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

ppb – Parts per billion or micrograms per liter

ppt – Parts per trillion or nanograms per liter

ppq – Parts per quadrillion-picograms per liter

UG/L – Micrograms per liter

PCI/L – Picocuries per liter (a measure of radioactivity)

NTU – Nephelometric Turbidity Units

MFL – Million fibers per liter (a measure of asbestos)

Na – not applicable

Regulated Contaminants

Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Arsenic	2015	2.8	2.8 - 2.8	0	10	ppb	N	Erosion of natural deposits; Runoff from orchards; Runoff from glass electronics production wastes.
Barium	2015	0.176	.176 - .176	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Fluoride	2015	0.52	.52 - .52	4	4	ppm	N	Erosion of natural deposits; water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Nitrate [measured as Nitrogen]	2015	0.47	0.05 - 0.47	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.

Radioactive Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Beta / photon emitters	2015	8	8 - 8	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.								
Gross alpha excluding radon and uranium	7/7/1905	11.4	2 - 11.4	0	15	pCi/L	N	Erosion of natural deposits.
Uranium	2015	13.7	13.7 - 13.7	0	30	ug/l	N	Erosion of natural deposits.

Disinfection

Disinfection	Average	Lowest Residual	Highest Residual	MRDL	MRDLG	Units	Source of Chemical
Chloramine	0.83	0.4	2.54	4	4	ppm	Added to control microbes

Coliform Bacteria

Contaminant	Highest # of Positive	# of Months in Violation	MCL	MCLG	Source of Contaminant
Total Coliform Bacteria	1*	0	More than one sample in a month with a detection	0	Naturally present in the environment.

* 1 positive sample in one month: repeat sample did not show positive

Lead and Copper

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	2013	1.3	1.3	0.094	0	ppm	N	Erosion of natural deposits; Leaching from
Lead	2013	0	15	3.37	0	ppb	N	Corrosion of Household plumbing systems; Erosion of natural deposits.

Lead and Copper

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	2013	1.3	1.3	0.094	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.
Lead	2013	0	15	3.37	0	ppb	N	Corrosion of Household plumbing systems; Erosion of natural deposits.

Year: 2015

Acres Homes (EP003), Jersey Village (EP054)
EWPP 3 (EP101) NEWPP(EP141)

Regulated Contaminants

CONTAMINANT	MCL	MCLG	SCL	Acres Homes	Jersey Village	EWPP 3	NEWPP	MIN	AVERAGE	MAX
Atrazine (µg/L)	3	3	n/a	0.13	0.13	n/a	ND	ND	0.09	0.13
Barium (mg/L)	2	2	n/a	0.064	0.0483	0.0468	0.0658	0.05	0.06	0.0658
Cyanide (mg/L)	0.2	0.2	n/a	ND	ND	0.06	ND	ND	0.015	0.06
Fluoride (mg/L)	4	4	2	0.26	0.18	0.23	ND	ND	0.17	0.26
Nitrate (mg/L)	10	10	n/a	0.23	0.85	0.29	0.21	0.21	0.40	0.85
Simazine (µg/L)	4	4	n/a	0.08	ND	n/a	ND	ND	0.03	0.08
Xylenes (µg/L)	10	10	n/a	n/a	0.0006	n/a	n/a	n/a	n/a	0.0006

Unregulated Contaminants & Secondary Standards

CONTAMINANT	SCL	MCLG	Acres Homes	Jersey Village	EWPP 3	NEWPP	MIN	AVERAGE	MAX
[VOC] Bromodichloromethane (µg/L)	n/a	0	5.1	ND	11	3	ND	4.8	11
Chloride (mg/L)	250	n/a	31	26	23	24	23	26.0	31
[VOC] Chloroform (µg/L)	n/a	0	14	ND	ND	18	ND	8.0	18
[VOC] Dibromochloromethane (µg/L)	n/a	0	1.5	ND	1.9	ND	ND	1.1	1.9
Iron (µg/L)	300	n/a	ND	18	18	ND	ND	9	18
Manganese (mg/L)	0.05	n/a	0.0045	0.0154	0.0106	0.046	0.0045	0.019	0.046
pH (SU)	6.5-8.5	n/a	8.1	7.8	6.9	8.6	6.9	7.9	8.6
Sulfate (mg/L)	250	n/a	32	36	38	7	7	28.3	38
Total Dissolved Solids (mg/L)	500	n/a	219	196	218	122	122	188.8	219
Aluminum (mg/L)	n/a	n/a	0.0647	ND	ND	ND	ND	0.016	0.0647
Bicarbonate (mg/L)	n/a	n/a	129	90	134	66	66	104.8	134
Calcium (mg/L)	n/a	n/a	42.9	40.8	49.7	15.8	15.8	37.3	49.7
Magnesium (mg/L)	n/a	n/a	3.78	3.16	3.91	2.05	2.05	3.2	3.91
Nickel (mg/L)	n/a	n/a	0.0023	0.0027	0.0026	0.0012	0.0012	0.002	0.003
Potassium (mg/L)	n/a	n/a	5.06	4.68	5.45	3.11	3.11	4.6	5.45
Silver (mg/l)	n/a	n/a	0.01	ND	ND	ND	ND	0.003	0.01
Sodium (mg/L)	n/a	n/a	25.9	16.8	16.7	21.9	16.7	20.3	21.9
Total alkalinity as CaCO3 (mg/L)	n/a	n/a	106	74	110	54	54	86.0	110
Total hardness as CaCO3 by calculation (mg/L)	n/a	n/a	123	115	140	47.9	115	106.5	140

Definitions

MCL - Maximum Contaminant Level

MCLG - Maximum Contaminant Level Goal

SCL - Secondary Contaminant Level - represents reasonable goals for drinking water quality & provides a guideline for public water suppliers

Regulated Contaminants- Contaminants detected at this entry point that have an enforceable MCL

Unregulated Contaminants & Secondary Standards - Contaminants detected at this entry point that do not have an enforceable MCL, but may have an MCLG or SCL

n/a - Not applicable

EWPP3 & NEWPP Combined															
Lowest Monthly Percentage of Samples < 0.3 NTU:		100.0%													
Yearly Maximum [NTU]:		0.28													
		Jun-15													
EWPP3															
Lowest Monthly Percentage of Samples < 0.3 NTU:		100%	Month (2015)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Yearly Maximum [NTU]:		0.28	# of Monthly Turbidity Samples	186	168	186	180	186	180	186	186	180	186	180	186
		Jun-15	# of samples above 0.3 NTU	0	0	0	0	0	0	0	0	0	0	0	0
			Average Turbidity [NTU]	0.09	0.11	0.1	0.09	0.1	0.12	0.12	0.09	0.05	0.05	0.06	0.11
			Max Turbidity Reading [NTU]	0.14	0.26	0.21	0.15	0.21	0.28	0.21	0.16	0.09	0.08	0.10	0.24
NEWPP															
Lowest Monthly Percentage of Samples < 0.3 NTU:		100.0%	Month (2015)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Yearly Maximum [NTU]:		0.22	# of Monthly Turbidity Samples	186	168	186	180	186	180	186	186	180	186	180	186
		Sep-15	# of samples above 0.3 NTU	0	0	0	0	0	0	0	0	0	0	0	0
			Average Turbidity [NTU]	0.07	0.06	0.08	0.10	0.09	0.09	0.09	0.10	0.09	0.09	0.06	0.07
			Max Turbidity Reading [NTU]	0.08	0.09	0.13	0.12	0.14	0.12	0.12	0.14	0.22	0.12	0.10	0.09