Annual Drinking Water Quality Report

TX0810001

CITY OF FAIRFIELD

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 drinking water and the efforts made by the water system to provide safe drinking water.

For more information regarding this report contact:

Jefferey D. Looney, City Administrator

903-389-2633

CITY OF FAIRFIELD is Ground Water

Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, favor de llamar al telefono (_903-389-2633

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 surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pickup substances resulting from 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 does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPAs Safe 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 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, and 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 systems. 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 concerns. 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 immunocompromised persons such as those undergoing chemotherapy for cancer; persons 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 providers Additional guidelines on appropriate means to lessen the risk of infection by Cryptosporidium are available from 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 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.

Information about Source Water Assessments

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 detections 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 [Clyde Woods, (903)-389-2633]

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 types 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 protection strategies.

For more information about your sources of water, please refer to the Source Water Assessment Viewer available at the following URL: http://gis3.tceq.state.tx.us/swav/Controller/index.jsp?wtrsrc=

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

Source Water Name		Type of Water	Report Status	Location
3 - WATSON LN / PLANT 3	WATSON LN PLANT 3	GW	A	Wilcox
5 - CLARK ST	CLARK ST	GW	Α	Wilcox
6 - PARK AVE (FEEDS LOVE ST PLANT 2)	PARK AVE (FEEDS LOVE ST	GW	A	Wilcox
8 - E HWY 84 (IVY)	E HWY 84 (IVY)	GW	A	Wilcox

2015 Regulated Contaminants Detected

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	07/31/2014	1.3	1.3	0.16	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.

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 technology.

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 microbial

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 disinfectants 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)

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.

Water Quality Test Results

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

Regulated Contaminants

2015 2015 Collection Date	Highest Level Detected 8 11 Highest Level Detected	Range of Levels Detected 7.8 - 7.8 10.6 - 10.6	MCLG No goal for the total No goal for the total	60 80	Units	Violation N	By-product of drinking water disinfection.
2015 Collection Date	11 Highest Level	10,6 - 10.6	total No goal for the			N	By-product of drinking water disinfection.
Collection Date	Highest Level			80			
		D CI :			ppb	N	By-product of drinking water disinfection.
03/10/2010		Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
03/10/2010	0.0319	0.0293 - 0.0319	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
03/10/2010	0.166	0 - 0.166	100	100	ppb	N	Discharge from steel and pulp mills; Erosion of natural deposits.
06/30/2014	0.212	0.17 - 0.212	4	4.0	ppm	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
2015	0.065	0.053 - 0.065	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
2015	1.5	1.5 - 1.5	0	5	pCi/L	N	Erosion of natural deposits.
Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
2015	0.5	0 - 0.5	0	6	ppb	N	Discharge from rubber and chemical factories.
2015	1.17	0.60-1.99	4	4	ppm	N	
Co	2015 Dilection Date 2015 Dilection Date 2015	03/10/2010	03/10/2010 0.166 0 - 0.166 06/30/2014 0.212 0.17 - 0.212 2015 0.065 0.053 - 0.065 ollection Date Highest Level Detected Range of Levels Detected 2015 1.5 1.5 - 1.5 ollection Date Highest Level Detected Range of Levels Detected 2015 0.5 0 - 0.5	03/10/2010 0.166 0 - 0.166 100 06/30/2014 0.212 0.17 - 0.212 4 2015 0.065 0.053 - 0.065 10 ollection Date Highest Level Detected Range of Levels Detected MCLG 2015 1.5 1.5 - 1.5 0 ollection Date Highest Level Detected Range of Levels Detected MCLG 2015 0.5 0 - 0.5 0	03/10/2010 0.166 0 - 0.166 100 100 06/30/2014 0.212 0.17 - 0.212 4 4.0 2015 0.065 0.053 - 0.065 10 10 ollection Date Highest Level Detected Range of Levels Detected MCLG MCL 2015 1.5 1.5 - 1.5 0 5 ollection Date Highest Level Detected Range of Levels Detected MCLG MCL 2015 0.5 0 - 0.5 0 6	03/10/2010 0.166 0 - 0.166 100 100 ppb 06/30/2014 0.212 0.17 - 0.212 4 4.0 ppm 2015 0.065 0.053 - 0.065 10 10 ppm ollection Date Highest Level Detected Range of Levels Detected MCLG MCL Units 2015 1.5 1.5 - 1.5 0 5 pCi/L ollection Date Highest Level Detected Range of Levels Detected MCLG MCL Units 2015 0.5 0 - 0.5 0 6 ppb	03/10/2010 0.166 0 - 0.166 100 100 ppb N 06/30/2014 0.212 0.17 - 0.212 4 4.0 ppm N 2015 0.065 0.053 - 0.065 10 10 ppm N ollection Date Highest Level Detected Range of Levels Detected MCLG MCL Units Violation 2015 1.5 1.5 - 1.5 0 5 pCi/L N ollection Date Highest Level Detected Range of Levels Detected MCLG MCL Units Violation 2015 0.5 0 - 0.5 0 6 ppb N

Violations Table

Lead and Copper Rule									
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 materials.									
Violation Type	Violation Begin	Violation End	Violation Explanation						
LEAD CONSUMER NOTICE (LCR)	12/30/2014	03/02/2015	We failed to provide the results of lead tap water monitoring to the consumers at the location water was tested. These were supposed to be provided no later than 30 days after learning the results.						

In the water loss audit submitted to the Texas Water Development Board for the time period of January – December 2015, our system had a 15% water loss. If you have any questions about our water loss audit please call City Hall at (903) 389-2633.

The City of Fairfield is committed to providing superior water quality to our customers. Our well trained staff is caring and qualified to process your water needs. We ask that you help our environment by protecting our limited and valuable water resources.

If you have any questions or concerns feel free to contact City hall at (903) 389-2633.

Sincerely,

Jeffery D. Looney, MPA City Administrator Jeffeng D. Looney

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CITY OF FAIRFIELD BOYD UNIT

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CITY OF FAIRFIELD BOYD UNIT is Ground Water

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Source Water Name		Type of Water	Report Status	Location
2 - NE OF WTP	NE OF WTP	GW	Active	Wilcox
3 - SE OF WTP	SE OF WTP	GW	Active	Wilcox

2015 **Regulated Contaminants Detected**

Lead and Copper

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Copper	07/30/2014	1.3	1.3	0.2	0	ppm	N	Erosion of a preservative systems.	natural deposits; Leaching from wood s; Corrosion of household plumbing
Lead	07/30/2014	0	15	1.8	0	ppb	N	Corrosion of natural d	f household plumbing systems; Erosic posits.

Water Quality Test Results

Definitions:

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control microbial contaminants.

MFL

million fibers per liter (a measure of asbestos)

na:

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NTU

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pCi/L

picocuries per liter (a measure of radioactivity)

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ppt parts per trillion, or nanograms per liter (ng/L)

ppq parts per quadrillion, or picograms per liter (pg/L)

Regulated Contaminants

Disinfectants and Disinfection By-Products	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination	
Haloacetic Acids (HAA5)*	2015	9	9.1 - 9.1	No goal for the total	60	ppb	N	By-product of drinking water disinfection.	
Total Trihalomethanes (TTHM)	2015	26	26.1 - 26.1	No goal for the total	80	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	
Barium	2015	0.026	0.026 - 0.026	2	2	ppm	N	Discharge of drilling wastes; Discharge from refineries; Erosion of natural deposits.	n metal
Fluoride	2015	0.268	0.268 - 0.268	4	4.0	ppm	N	Erosion of natural deposits; Water additive v promotes strong teeth; Discharge from fertili aluminum factories.	which izer and
Nitrate [measured as Nitrogeu]	2015	0.034	0.034 - 0.034	10	10	ppm	N	Runoff from fertilizer use; Leaching from se tanks, sewage; Erosion of natural deposits.	ptic
Radioactive Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination	
Combined Radium 226/228	2015	1.5	1.5 - 1.5	0	5	pCi/L	N	Erosion of natural deposits.	
Chlorine	2015	1.20	.30-3.20	4	4	Ppm	N		

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Violations Table

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Jeffery D. Looney, MPA City Administrator