# CITY OF ORCHARD 2012 Annual Drinking Water Quality Report

TX0790037

CITY OF ORCHARD

Annual Water Quality Report for the period of January 1 to December 31, 2012

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:

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Este reporte incluye información importante sobre el agua para tomar. Para asistanse en Española, favor de llamar al telefono (979) 478-6893.

CITY OF ORCHARD is Ground Water

## PUBLIC PARTICIPATION OPPORTUNITIES

<u>DATE:</u> City Council Meetings  $2^{nd}$  Monday of Each Month

TIME: 6:30 pm LOCATION: City Hall

9714 Kibler

(979) 478-6893

PHONE:

### **Sources of Drinking Water**

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. 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

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 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

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
- and gas production, mining, or farming 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
- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses

- from gas stations, urban storm water runoff, and septic systems. Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come
- Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities

regulations establish limits for contaminants in bottled water which must provide the same protection for public health. 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

information on taste, odor, or color of drinking water, please contact the system's business office 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

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 Hotline (800-426-4791). 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 immunocompromised persons such as those undergoing chemotherapy for cancer; persons who have undergone organ transplants; those who are undergoing treatment with You may be more vulnerable than the general population to certain microbial contaminants, such as Cryptosporidium, in drinking water. Infants, some elderly, or

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 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 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 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

contained in the assessment allows us to focus source water protection strategies. 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 A Source Water Susceptibility Assessment for your drinking water source(s) is currently being updated by the Texas Commission on Environmental Quality. This information

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

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

			its Detected	Regulated Contaminants Detected	2012 Regu	2		
Disinfectant used to control microbes	ppm	4	4	2.9	1.0	2.14	Chlorine	2012
chemical	measure	MKDEG	MKUL	level	Minimum level Maximum	Average level	Disinfectant	Year
Samo	Gulf Coast	Active		GW	9921 GALVESTON RD (W OF 1)	9921 GALVE	2 - 9921 GALVESTON RD (W OF 1)	2 - 9921 GALVES
	Gulf Coast	Active		GW	STON RD	9921 GALVESTON RD	TON RD	1 - 9921 GALVESTON RD
	Location	Report Status		Type of Water			n	Source Water Name

Definitions: Regulatory compliance with some MCLs are based on running annual average of monthly samples. The following tables contain scientific terms and measures, some of which may require explanation.

Avg:

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 residual disinfectant level or MRDL: 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

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

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.

million fibers per liter (a measure of asbestos)

MFL

na:

Maximum residual disinfectant level goal or MRDLG:

not applicable.

nephelometric turbidity units (a measure of turbidity)

picocuries per liter (a measure of radioactivity)

micrograms per liter or parts per billion - or one ounce in 7,350,000 gallons of water.

milligrams per liter or parts per million - or one ounce in 7,350 gallons of water.

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

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

ppt ppm: ppb: pCi/L OLN

#### **Regulated Contaminants**

Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Arsenic	2012	3.6	3.6 - 3.6	0	10	ppb	z	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes.
Barium	2012	0.219	0.219 - 0.219	2	2	ppm	z	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Fluoride	2012	0.16	0.16 - 0.16	4	4.0	ppm	Z	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Nitrate [measured as Nitrogen]	2012	0.45	0.45 - 0.45	10	10	ppm	Z	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Selenium	2012	3.1	3.1 - 3.1	50	50	ppb	z	Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mines.
Radioactive Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Gross Alpha Compliance	08/02/2010	3.4	3.4 - 3.4	0	15	pCi/L	Z	Erosion of natural deposits.

#### 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	Copper	Lead and Copper Da
08/05/2009	08/05/2009	Date Sampled
.00188	.1	MCLG
15	1.3	Action Level (AL) 90th Percentile # Sites Over AL
90%	90%	90th Percentile
0	0	# Sites Over AL
MG/L	MG/L	Units
z	z	Violation
Corrosion of household plumbing systems; Erosion of natural deposits.	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.	Likely Source of Contamination

#### **Violations Table**

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Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially-harmful, bacteria may be present. Coliforms were found in more samples than allowed and this was a

warning of potential problems.			
Violation Type	Violation Begin	Violation End	Violation Explanation
MONITORING (TCR), ROUTINE MAJOR	03/01/2012	03/31/2012	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. Out test was made on February 29, 2012.