Annual Drinking Water Quality Report Tx0790037-CITY OF ORCHARD

Annual Water Quality Report for the period of January 1 to December 31, 2013. For more information regarding this report contact:

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.

JEROME SUPAK 979-478-6893

Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, favor de llamar al telefono 979-478-6893.

CITY OF ORCHARD is Ground Water

Sources of Drinking Water

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 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

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, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does 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
- discharges, oil 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
- contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also, come - Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.- Organic chemical from gas stations, urban storm water runoff, and septic systems
- 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. 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

concerns. For more 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

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

available from the Safe Drinking Water Hotline (800-426-4791). drinking water from your physician or health care providers. Additional guidelines on appropriate means to lessen the risk of infection by Cryptosporidium are

Hotline or at http://www.epa.gov/safewater/lead 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 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 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 materials and components associated with service lines and home plumbing. We are responsible for providing high quality drinking water, but we cannot control 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

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ACTIVE GULF COAST ACTIVE GULF COAST

Information about Source Water Assessments

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WOLGEN	Asbestos		
LOW	Cyanide		
HIGH	Metals		
нсн	Microbial	ACCEPTANT CONTRACTOR (CONTRACTOR CONTRACTOR	
HOH	Minerals	System S	
GEIN MOT HEITH HEITH HEITH MOT MOT	Minerals Radiochemical	System Susceptibility Summa	
WOL	Disinfection Byproduct		
HIGH	Volatile Organic Chemicals		
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MEDIUM	Other	erdda sy'n w'n i ddigwynnol cygrunol i pylinia Glyddinol (1970)	

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HIGH	Metals	- MATERIAL PROGRAMMENT OF THE STATE OF THE S	
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MEDIUM		amary	
Low	Disinfection Volatile Organic Byproduct Chemicals		
нисн	Volatile Organic Chemicals		
MEDIUM LOW HIGH HIGH MEDIUM	Drinking Water Contaminant Candidate	amary	
MEDIUM	Other	and the control of th	

constituents may come into contact with the source water. It does not mean that there are any health risks present. "High" susceptibility means there are activities near the source water and the natural conditions of the aquifer or watershed make it very likely that chemical

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

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

2013 Regulated Contaminants Detected

Water Quality Test Results

ppt ppm: ppb: pCi/L UTU MFL Avg: na: Maximum residual disinfectant level goal or MRDLG: Maximum residual disinfectant level or MRDL: Maximum Contaminant Level Goal or MCLG: Maximum Contaminant Level or MCL: Definitions: parts per trillion, or nanograms per liter (ng/L) milligrams per liter or parts per million - or one ounce in 7,350 gallons of water. micrograms per liter or parts per billion - or one ounce in 7,350,000 gallons of water. picocuries per liter (a measure of radioactivity) not applicable. 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. nephelometric turbidity units (a measure of turbidity) million fibers per liter (a measure of asbestos) 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 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 contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology. 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.

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

Inorganic Contaminants	Collection	Highest Level	Range of Levels	MCLG	MCE.	Units	Violation	MCLG MCL Units Violation Likely Source of Contamination
Gante Contaminants	Date	Detected	Detected					
Arsenic	04/12/2012	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	04/12/2012	0.219	0.219 - 0.219	2	2	ppm	Z	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Fluoride	04/12/2012	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]	2013	0.47	0.47 - 0.47	10	10	ppm	z	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Selenium	04/12/2012	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	MCL	Units	Violation	Units Violation Likely Source of Contamination
Combined Radium 226/228	2013	3.1	3.1 - 3.1	0	v	pCi/L	z	Erosion of natural deposits.
Gross alpha excluding radon and uranium	2013	3.1	3.1 - 3.1	0	15	pCi/L	z	Erosion of natural deposits.

01-01-20 <u>02</u> 12-31-2010	0 <u>1-01-2002</u> 12-31-2010	01-01-2002 12-31-2010	01-01-2002 12-31-2010	01-01-2002 12-31-2010	<u>01-01-2002</u> 12-31-2010	MP Begin Date	
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	.00262	.00188				Measure	PBCU Sample Summary Results
	MG/L	MOL		MG/L	мол	Units	ıry Results
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		08-05-2009			08-05-2009	Last Sample Date	

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Disinfectant Average level Minimum level Maxim	Maximum level		MRDL	1RDL MRDLG

PUBLIC PARTICIPATION OPPORTUNITIES

DATE: City Council Meetings
2nd Monday of Each Month
TIME: 6:30 pm
LOCATION: City Hall
9714 Kibler
PHONE: (979) 478-6893