Information Required in All Consumer Consumer Confidence Report: **Confidence Reports**

Public Water System Name: City of Orchard
Year this report covers: 2 0 1 1
Public Water System ID Number: 7 9 0 0 3 7
979-478-6893
(Your public water system's telephone number)
For more information regarding this report contact:
Name: Merry Sue Hajdik
Phone: 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 (telephone number for assistance in Spanish).

some elderly, or immunocompromised persons such as those undergoing chemotherapy for cancer; those who have undergone organ transplants; infections. You should seek advice about drinking water from your physician or health care provider. Additional guidelines on appropriate means to those who are undergoing treatment with steroids; and people with HIV/AIDS or other immune system disorders can be particularly at risk from lessen the risk of infection by Cryptosporidium are available from the Safe Drinking Water Hotline at (800) 426-4791. You may be more vulnerable than the general population to certain microbial contaminants, such as Cryptosporidium, in drinking water. Infants,

Consumer Confidence Reports Consumer Confidence Report: Information Required in All

drinking water. 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

obtained by calling the EPAs Safe Drinking Water Hotline at (800) 426-4791. contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of

substances resulting from the presence of animals or from human activity. over the surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pickup The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels

Contaminants that may be present in source water include:

- operations, and wildlife Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock
- wastewater 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
- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses
- production, and can also come 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
- Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities

health 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

protection for public health public water systems. Food and Drug Administration regulations establish limits for contaminants in bottled water that must provide the same In order to ensure that tap water is safe to drink, the EPA prescribes regulations that limit the amount of certain contaminants in water provided by

Consumer Confidence Reports Consumer Confidence Report: Information Required in All

Definitions

health. MCLGs allow for a margin of safety. Maximum Contaminant Level Goal or MCLG: The level of a contaminant in drinking water below which there is no known or expected risk to

feasible using the best available treatment technology. 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

health. MRDLGs do not reflect the benefits of the use of disinfectants to control 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

addition of a disinfectant is necessary for control of microbial contaminants. Maximum residual disinfectant level or MRDL: The highest level of a disinfectant allowed in drinking water. There is convincing evidence that

MFL: million fibers per liter (a measure of asbestos)

mrem/year: millirems per year (a measure of radiation absorbed by the body)

na: not applicable

NTU: nephelometric turbidity units (a measure of turbidity)

pCi/L: picocuries per liter (a measure of radioactivity)

ppb: micrograms per liter (μ g/L) or parts per billion - or one ounce in 7,350,000 gallons of water

ppm: parts per million, or milligrams per liter (mg/L)

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

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

primarily from materials and components associated with service lines and home plumbing. If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is

City of Orchard

(name of public water system)

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/ 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, 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 is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water

2011 Annual Drinking Water Quality Report

Consumer Confidence Report (CCR)

PWS ID Number: TX0790037

PWS Name: CITY OF ORCHARD

Annual Water Quality Report for the period of January 1 to December 31, 2011

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.

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.

For more information regarding this report contact:

Name Metry Sue Hydib)
Phone 979-478-6893

Este informe contiene información muy importante sobre el agua que usted bebe Tradúzcalo ó hable con alguien que lo entienda bien.

Special Notice

Required Language for ALL Community Public Water Systems

Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

minimize exposure is available from the Safe http://www.epa.gov/safewater/lead Drinking Water Hotline or at testing methods, and steps you can take to tested. Information on lead in drinking water your water, you may wish to have your water or cooking. If you are concerned about lead in to 2 minutes before using water for drinking exposure by flushing your tap for 30 seconds of materials used in plumbing components. When your water has been sitting for several hours, drinking water is primarily from materials and pregnant women and young children. Lead in serious health problems, especially for you can minimize the potential for lead home plumbing. We cannot control the variety components associated with service lines and If present, elevated levels of lead can cause

CITY OF ORCHARD is Ground Water

The source of drinking water used

by

Information on Sources of 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 Contaminants that may be present in source

- Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and 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
- 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.

Information about Secondary Contaminants

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

Water Quality Test Results

Or Maximum Contaminant Level Goal Maximum Contaminant Level or MCL:

Maximum residual disinfectant level goal or MRDLG:

Maximum residual disinfectant level

Avg:

: mdd

:qdd

na:

Definitions:

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.

The level of a drinking water disinfectant below which there is no known or expected risk to health. disinfectants to control microbial contaminants. 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. MRDLGs do not reflect the benefits of the use of

Regulatory compliance with some MCLs are based on running annual average of monthly samples.

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.

not applicable.

The following tables contain scientific terms and measures, some of which may require explanation.

Regulated Contaminants Detected

Coliform Bacteria

_									
Likely Source of Contamination					Naturally present in the environment.				
Violation					Z				
Total No. of	Positive E. Coli or	Fecal Coliform	Samples	-	0				
Fecal Coliform or E.	Coli Maximum	Contaminant Level							
Highest No. of	Positive				There were no	TCR detections	for this system	in this CCR	
		Contaminant	Level		1 positive	monthly sample.			
Maximum	רבים הפים בים	GOAL			o				
	Total Coliform Highest No. of Fecal Coliform or E. Total No. of	Level Total Coliform Highest No. of Fecal Coliform or E. Positive Coli Maximum	Total Coliform Highest No. of Fecal Coliform or E. Total No. of Maximum Positive Coli Maximum Contaminant Level Fecal Coliform	Total Coliform Highest No. of Fecal Coliform or E. Total No. of Maximum Positive Coli Maximum Positive Contaminant Level Contaminant Level Samples	Total Coliform Highest No. of Fecal Coliform or E. Total No. of Maximum Contaminant Level Contaminant Level Samples	Total Coliform Highest No. of Pecal Coliform or B. Total No. of Positive Positive Contaminant Level Contaminant Level Samples There were no Total No. of Position Violation Coliform Contaminant Level Samples Total No. of Position Violation Viola	Total Coliform Highest No. of Recal Coliform or E. Total No. of Positive Contaminant Level Contaminant Level Samples I positive There were no monthly sample. TCR detections	Total Coliform Highest No. of Pecal Coliform or B. Total No. of Positive Bositive Contaminant Level Contaminant Level Contaminant Level Samples I positive There were no monthly sample. TCR detections for this system	Total Coliform Highest No. of Fecal Coliform or B. Total No. of Positive E. Coli or Contaminant Level Samples I positive There were no monthly sample. TCR detections in this CCR.

TCEQ recently completed a review of Public Notice violations that were historically present in our database. This review was done at the request of the Environmental Protection Agency and was triggered by the TCEQ migration to the Safe Drinking Water Information System (SDWIS). Following EPA guidelines TCEQ returned to compliance many PN violations that had existed, but may have not been reported on a prior year CCR. We strongly encourage you to check Drinking Water Watch (http://dww.tceq.texas.gov/DWW/) for the current status of any violations displayed on this page.

Total Coliform

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

Regulated Contaminants

Date Detected Detected 08/02/2010 Levels lower 0 - 0 No goal for 60 p than detect level	Disinfectants and	Collection	Highest Level	Highest Level Range of Levels	MCLG	MCL	Units	V:	olation
08/02/2010 Levels lower 0 - 0 No goal for 60 than detect the total	Disinfection By- Products		Detected	Detected		MCL	Units		Violation Likely Source of Contamination
08/02/2010 Levels lower 0 - 0 No goal for 60 than detect level									
than detect the total	Haloacetic Acids	08/02/2010	Levels lower	0 - 0	No goal for	60	daa		N
TEVET	(HAA5) *		than detect		the total		7		
			Tevel						

Not all sample results may have been used for calculating the Highest Level Detected because some results may be part of an evaluation to determine where compliance sampling should occur in the future

Total Trihalomethanes 08/02/2010 Levels lower (TThm)* OBTITUTE Devel Detected because some results may have been used for calculating the Highest Level Detected because some results may be part of an evaluation to		
lse some	Not all sample result	Total Trihalomethanes (TThm) *
lse some	s may have b	08/02/2010
lse some	een used for	Levels lower than detect level
lse some	calculating t	0 - 0
lse some	he Highest I	No goal for the total
lse some	level Detecte	80
N By-product of drinking water chlorination.	d because s	dqq
By-product of drinking water chlorination.	ome resul	N
	ts may be part of an evaluation to	product of corination.

determine where compliance sampling should occur in the future

Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Antimony	08/02/2006	Levels lower than detect level	0 - 0	6	6	qđđ	N	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder; test addition.
Arsenic	08/02/2006	2.9	2.9 - 2.9	0	10	qđđ	N	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes.
Barium	08/02/2006	0.193	0.193 - 0.193	N	N	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Beryllium	08/02/2006	Levels lower than detect level	0 - 0	4.	44.	ppb	Z	Discharge from metal refineries and coalburning factories; Discharge from electrical, aerospace, and defense
Cadmium	08/02/2006	Levels lower than detect level	0 - 0	υ	σ	qđđ	N	Corrosion of galvanized pipes; Erosion of natural deposits; Discharge from metal refineries; runoff from waste batteries
Chromium	08/02/2006	Levels lower than detect level	0 - 0	100	100	dqq	Z	Discharge from steel and pulp mills; Erosion of natural deposits.
Fluoride	05/04/2009	0.12	0.12 - 0.12	4	4.0	mďď	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum

Nitrate [measured as 2010 0.46 0.46 - 0.46 10 10 ppm N Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.	Mercury	08/02/2006	Levels lower than detect level	0 - 0	N	N	dđđ	Z	Erosion of natural deposits; Discharge from refineries and factories; Runoff from landfills; Runoff from cropland.
	litrate [measured as litrogen]	2010	0.46	0.46 - 0.46	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.

Nitrate Advisory - Nitrate in drinking water at levels above 10 ppm is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. If you are caring for an infant you should ask advice from your health care provider.

	Atrazine	Alachlor	2,4-D	2,4,5-TP (Silvex)	Synthetic organic contaminants including pesticides	Gross alpha excluding radon and uranium	Beta/photon emitters	Radioactive Contaminants	Thallium	Selenium
	08/02/2010	08/02/2010	2010	2010	Collection Date	08/02/2010	08/02/2010	Collection Date	08/02/2006	08/02/2006
level	Levels lower	Levels lower than detect level	Levels lower than detect level	Levels lower than detect level	Highest Level Detected	3.4	Levels lower than detect level	Highest Level Detected	Levels lower than detect level	Levels lower than detect level
	0 - 0	0 - 0	0 - 0	0 - 0	Range of Levels Detected	3.4 - 3.4	0 - 0	Range of Levels Detected	0 - 0	0 - 0
	ω	0	70	50	MCLG	0	0	MCLG	0.5	50
	ω	N	70	50	MCL	15	4	MCL	2	50
	ppb	qđđ	ppb	ppb	Units	pCi/L	mrem/yr	Units	qđđ	dqq
	N	N	N	N	Violation	N	N	Violation	N	N
	Runoff from herbicide used on row crops.	Runoff from herbicide used on row crops.	Runoff from herbicide used on row crops.	Residue of banned herbicide.	Likely Source of Contamination	Erosion of natural deposits.	Decay of natural and man-made deposits.	Likely Source of Contamination	Discharge from electronics, glass, and Leaching from ore-processing sites; drug factories.	Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mines.

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Hexachlorocyclopentad 08	Hexachlorobenzene 08	Heptachlor epoxide 08	Heptachlor 08	Ethylene dibromide	Endrin 0	Dinoseb	Dibromochloropropane (DBCP)	Di (2-ethylhexyl) 0 phthalate	Di (2-ethylhexyl) 0 adipate	Dalapon	Chlordane	Carbofuran	Benzo(a)pyrene
08/02/2010	08/02/2010	08/02/2010	08/02/2010	2010	08/02/2010	2010	2010	08/02/2010	08/02/2010	2010	08/02/2010	2010	08/02/2010
Levels lower than detect level	Levels lower than detect level	Levels lower than detect level	Levels lower than detect level	Levels lower than detect level	Levels lower than detect level	Levels lower than detect level	Levels lower than detect level	Levels lower than detect level	Levels lower than detect level	Levels lower than detect level	Levels lower than detect level	Levels lower than detect level	Levels lower than detect level
0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0
50	0	0	0	0	2	7	0	0	400	200	0	40	0
50	1	200	400	50	N	7	0	Q	400	200	ю	40	200
dqq	qdd	ppt	ppt	ppt	ppb	ddd	tdđ	ppb	ppb	ppb	qđđ	qdđ	ppt
N	N	N	N	N	N	N	N	N	N	N	N	N	N
Discharge from chemical factories.	Discharge from metal refineries and agricultural chemical factories.	Breakdown of heptachlor.	Residue of banned termiticide.	Discharge from petroleum refineries.	Residue of banned insecticide.	Runoff from herbicide used on soybeans and vegetables.	Runoff/leaching from soil fumigant used on soybeans, cotton, pineapples, and orchards.	Discharge from rubber and chemical factories.	Discharge from chemical factories.	Runoff from herbicide used on rights of way.	Residue of banned termiticide.	Leaching of soil fumigant used on rice and alfalfa.	Leaching from linings of water storage tanks and distribution lines.

Discharge factories.	N	qđđ	σ	0	0 - 0	Levels lower than detect level	05/04/2009	1,2-Dichloropropane
	z	ddd	σ	0	0 - 0	Levels lower than detect level	05/04/2009	1,2-Dichloroethane
4	z	ppb	70	70	0 - 0	Levels lower than detect level	05/04/2009	1,2,4- Trichlorobenzene
4	z	ddd	7	7	0 - 0	Levels lower than detect level	05/04/2009	1,1-Dichloroethylene
	Z	qdd	ഗ	ω	0 - 0	Levels lower than detect level	05/04/2009	1,1,2-Trichloroethane
4	Z	dqq	200	200	0 - 0	Levels lower than detect level	05/04/2009	1,1,1-Trichloroethane
Violation	Viol	Units	MCL	MCLG	Range of Levels Detected	Highest Level Detected	Collection Date	Volatile Organic Contaminants
Z		qđđ	ω	0	0 - 0	Levels lower than detect level	08/02/2010	Toxaphene
Z		dqq	4	4	0 - 0	Levels lower than detect level	08/02/2010	Simazine
N		qdd	500	500	0 - 0	Levels lower than detect level	2010	Picloram
N		dqq	1	0	0 - 0	Levels lower than detect level	2010	Pentachlorophenol
И		dqq	200	200	0 - 0	Levels lower than detect level	2010	Oxamyl [Vydate]
z		ppb	40	40	0 - 0	Levels lower than detect level	08/02/2010	Methoxychlor
N		ppt	200	200	0 - 0	Levels lower than detect level	08/02/2010	Lindane

p-Dichlorobenzene	o-Dichlorobenzene	cis-1,2- Dichloroethylene	Xylenes	Vinyl Chloride	Trichloroethylene	Toluene	Tetrachloroethylene	Styrene	Ethylbenzene	Dichloromethane	Chlorobenzene	Carbon Tetrachloride	Benzene
05/04/2009	05/04/2009	05/04/2009	05/04/2009	08/02/2010	05/04/2009	05/04/2009	05/04/2009	05/04/2009	05/04/2009	05/04/2009	05/04/2009	05/04/2009	05/04/2009
Levels lower than detect level	Levels lower than detect level	Levels lower than detect level	Levels lower than detect level	Levels lower than detect level	Levels lower than detect level	Levels lower than detect level	Levels lower than detect level	Levels lower than detect level	Levels lower than detect level	Levels lower than detect level	Levels lower than detect level	Levels lower than detect level	Levels lower than detect level
0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0
75	600	70	10	0	0	1	0	100	700	0	100	0	0
75	600	70	10	22	ഗ	1	ហ	100	700	ഗ	100	ហ	v
qdđ	qdđ	qdđ	mďď	dqq	dqq	ppm	qdd	dqq	ppb	ppb	qđđ	qdd	qđđ
N	N	N	N	N	N	N	N	N	N	N	N	N	N
Discharge from industrial chemical factories.	Discharge from industrial chemical factories.	Discharge from industrial chemical factories.	Discharge from petroleum factories; Discharge from chemical factories.	Leaching from PVC piping; Discharge from plastics factories.	Discharge from metal degreasing sites and other factories.	Discharge from petroleum factories.	Discharge from factories and dry cleaners.	Discharge from rubber and plastic factories; Leaching from landfills.	Discharge from petroleum refineries.	Discharge from pharmaceutical and chemical factories.	Discharge from chemical and agricultural chemical factories.	Discharge from chemical plants and other industrial activities.	Discharge from factories; Leaching from gas storage tanks and landfills.

trans-1,2- Dicholoroethylene	
05/04/2009	
Levels lower than detect level	
0 - 0	
100	
100	
qđđ	
N	
Discharge from industrial chemical factories.	

Report Generated: 06/18/2012

Information about Source Water Assessments

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

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:

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