

Annual Drinking Water Quality Report

TX0700007

CITY OF PALMER

Annual Water Quality Report for the period of January 1 to December 31, 2014

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.

CITY OF PALMER is Purchased Surface Water

For more information regarding this report contact:

City of Palmer

(972)449-3160

Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, favor de llamar al telefono (972)449-3160

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 EPA's 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 Charles Slovak

A 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://www.tceq.texas.gov/gis/swaview>

Further details about sources and source-water assessments are available in Drinking Water Watch at the following URL: <http://dww.tceq.state.tx.us/DWW/>

Source Water Name	Type of Water	Report Status	
SW FROM ROCKETT SUD	CC FROM TX0700033 ROCKETT	SW	Active

Location

The source of drinking water used by ROCKETT SUD is Purchased Surface Water from Robert W. Sokoll WTP (Cedar Creek, Richland Chambers Reservoirs) City of Midlothian (Joe Pool) City of Waxahachie (Lake Waxahachie, Lake Bardwell)

2014 Regulated Contaminants Detected

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

Disinfectant	Year	Average Level	Minimum Level	Maximum Level	MRDL	MRDLG	Unit of Measure	Violation (Y/N)	Likely Source of Contamination
Total	2014	2.79	1.32	3.6	=4	=4	ppm	N	Water additive used to control microbes.

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation (Y/N)	Likely Source of Contamination
Copper	12-31-2010	0.538	1.3	90%	10	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.

Lead	12-31-2010	4.22	15	90%	17	ppb	N	Corrosion of household plumbing systems; Erosion of natural deposits.
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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)*	2014	15	9.6 - 22.6	No goal for the total	60	ppb	N	By-product of drinking water disinfection.
Total Trihalomethanes (TTHM)	2014	31	22.5 - 47.6	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
Nitrate [measured as Nitrogen]	2014	0.318	0.318 - 0.318	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.

Purchased Surface Water from ROCKETT SUD

2014 Regulated Contaminants Detected

Coliform Bacteria

Maximum Contaminant Level Goal	Total Coliform Maximum Contaminant Level	Highest No. of Positive	Fecal Coliform or E. Coli Maximum Contaminant Level	Total No. of Positive E. Coli or Fecal Coliform Samples	Violation	Likely Source of Contamination
0	1 positive monthly sample.	1		0	N	Naturally present in the environment.

Data from City of Midlothian

Disinfectants and	Collection Date	Highest Level	Range of Levels	MCLG	MCL	Units	Violation	Likely Source of Contamination
Chlorite	2014	0.43	0 - 0.43	0.43	1	ppm	N	By-product of drinking water disinfection.
Haloacetic Acids (HAA5)*	2014	22	16.3 - 32.9	No goal for the	60	ppb	N	By-product of drinking water disinfection.
Total Trihalomethanes	2014	44	32.6 - 54.1	No goal for the	80	ppb	N	By-product of drinking water disinfection.
Inorganic Contaminants	Collection Date	Highest Level	Range of Levels	MCLG	MCL	Units	Violation	Likely Source of Contamination
Arsenic	2014	2	1.3 - 1.5	0	10	ppb	N	Erosion of natural deposits; Runoff from orchards;
Barium	2014	0.055	0.04 - 0.055	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal
Chromium	2014	4.5	3.9 - 4.5	100	100	ppb	N	Discharge from steel and pulp mills; Erosion of
Cyanide	2014	118	30.3 - 118	200	200	ppb	N	Discharge from plastic and fertilizer factories;
Fluoride	2014	0.4	0.361 - 0.426	4	4.0	ppm	N	Erosion of natural deposits; Water additive which
Nitrate [measured as	2014	0.362	0.174 - 0.362	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic
Nitrite [measured as	09/16/2013	0.0515	0.0515 - 0.0515	1	1	ppm	N	Runoff from fertilizer use; Leaching from septic
Thallium	2014	0.28	0.21 - 0.28	0.5	2	ppb	N	Discharge from electronics, glass, and Leaching
Combined Radium 226/228	01/25/2011	1	1 - 1	0	5	pCi/L	N	Erosion of natural deposits.
Synthetic organic	Collection Date	Highest Level	Range of Levels	MCLG	MCL	Units	Violation	Likely Source of Contamination

Atrazine	2014	0.4	0.13 - 0.4	3	3	ppb	N	Runoff from herbicide used on row crops.
Simazine	2014	0.35	0 - 0.35	4	4	ppb	N	Herbicide runoff.
		Limit (Treatment)	Level Detected	Violation		Likely Source of Contamination		
Highest single measurement		1 NTU	0.39 NTU	N		Soil runoff.		
Lowest monthly % meeting limit		0.3 NTU	97%	N		Soil runoff.		

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.

Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
09/28/2012	1.3	1.3	0.0963	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.
09/28/2012	0	15	2.4	0	ppb	N	Corrosion of household plumbing systems; Erosion of natural deposits.

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)*	2014	38	26.8 - 47.5	No goal for the total	60	ppb	N	By-product of drinking water disinfection.
Total Trihalomethanes (TTHM)	2014	94	71.75 - 113.9	No goal for the total	80	ppb	Y	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
Nitrate [measured as Nitrogen]	2014	0.137	0.137 - 0.137	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.

Violations Table

Consumer Confidence Rule			
The Consumer Confidence Rule requires community water systems to prepare and provide to their customers annual consumer confidence reports on the quality of the water delivered by the systems.			
Violation Type	Violation Begin	Violation End	Violation Explanation
CCR ADEQUACY/AVAILABILITY/CONTENT	07/01/2014	2014	We failed to provide to you, our drinking water customers, an annual report that adequately informed you about the quality of our drinking water and the risks from exposure to contaminants detected in our drinking water.