



# 2012 Drinking Water Quality Report

## RRA - PRESTON SHORES WATER SYSTEM

Red River Authority of Texas

P. O. Box 240

Wichita Falls, Texas 76307-0240

(866) 723-8697

## OUR DRINKING WATER MEETS OR EXCEEDS ALL FEDERAL (EPA) DRINKING WATER REQUIREMENTS

This report is a summary of the quality of the water we provide our customers. The analysis was made by using the data from the most recent U.S. Environmental Protection Agency (EPA) required tests and is presented in the attached pages. We hope this information helps you become more knowledgeable about what's in your drinking water.

### En Espanol

Este reporte incluye informacion importante sobre el agua para tomar. Para obtener una copia de esta informacion traducir al Espanol, favor de llamar al telefono (866) 723-8697.

### Special Notice for the ELDERLY, INFANTS, CANCER PATIENTS, people with HIV/AIDS or other immune problems:

Some people may be more vulnerable to contaminants in drinking water than the general population. 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/Centers for Disease Control and Prevention (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 at (800) 426-4791.

### WHERE DO WE GET OUR DRINKING WATER?

The **RRA-Preston Shores Water System** utilizes surface water from Lake Texoma as its sole source supply. Raw lake water is treated at the Authority's treatment facilities located in the Preston Shores sub-division in Grayson County, Texas. Texas Commission on Environmental Quality (TCEQ) has completed and provided the Authority a Source Water Susceptibility Assessment for your drinking water source(s). This report 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 this assessment will allow us to focus our source water protection activities. For more information on source water assessments and protection efforts for our system contact Henry C. Wied at (866) 723-8697.

### ALL DRINKING WATER MAY CONTAIN CONTAMINANTS

When drinking water meets federal standards there may not be any health based benefits to purchasing bottled water or point of use devices. 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 Environmental Protection Agency's Safe Drinking Water Hotline at (800) 426-4791.

**PUBLIC PARTICIPATION  
OPPORTUNITIES**

The Authority’s Board of Directors regularly meets on the third Wednesday of January, April, July, and September of each year. Specific times and locations of these and/or any special meetings can be obtained by contacting the Authority at (866) 723-8697.

For more information about the water quality of your water system, public participation programs, water conservation programs, and/or general operations policies, call (866) 723-8697 or e-mail the Authority at: [info@rra.dst.tx.us](mailto:info@rra.dst.tx.us). For service requests or reporting leaks during normal business hours, call your District Manager, Ms. Patti Neely or Mr. Jerry Ford at (903) 786-9303. For after hour **emergencies** call (940) 636-8243 or (940) 867-8552.

**SYSTEM INFORMATION**

The Red River Authority of Texas owns and operates 29 registered public water supply systems through its Utility Division. The Utility Division maintains over 2,150 miles of transmission lines, two surface water treatment plants, 49 pumping facilities and serves approximately 10,000 customers residing in a 15 county area of the Red River Basin. The Utility Division is subdivided into geographical districts for proper management, maintenance, and financial accounting of individual systems.

The **RRA-Preston Shores Water System** is one of the water systems operated by the Utility Division’s District 22. In 2012, the system served 714 active connections with an average water use of 160 gallons per day per connection. The primary use of the water was seasonal/recreational and rural domestic. No major capital improvements items were scheduled for 2012.

The Authority has upgraded the Utility Division’s Water Conservation and Drought Contingency Plan. Information on the plan is available on the Authority’s web page at [www.rra.dst.tx.us](http://www.rra.dst.tx.us) or can be obtained by calling (866) 723-8697.

**DEFINITIONS:**

**Maximum Contaminant Level (MCL) –**

The highest level of a contaminant in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

**Maximum Contaminant Level Goal (MCLG) –**

The level of a contaminant in drinking water below which there is no known or expected health risk. MCLGs allow for a margin of safety.

**Maximum Residual Disinfectant Level (MRDL) –**

The highest level of 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 (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 contamination.

**Treatment Technique (TT) –**

A required process intended to reduce the level of a contaminant in drinking water.

**Action Level (AL) –**

The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

**NTU** – Nephelometric Turbidity Units

**MFL** – million fibers per liter

**pCi/l** – picocuries per liter (a measure of radioactivity)

**ppm** – parts per million, or milligrams per liter (mg/l)

**ppb** – parts per billion, or micrograms per liter (ug/l)

**ppt** – parts per trillion, or nanograms per liter

**ppq** – parts per quadrillion, or picograms per liter

**SECONDARY CONSTITUENTS**

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

**ABOUT THE FOLLOWING TABLES**

U.S. EPA requires water systems to test up to 97 constituents. The attached tables contain all of the federally regulated or monitored constituents which have been found in your drinking water.

**Turbidity**

Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.						
Year	Contaminant	Highest Single Measurement	Lowest Monthly % of Samples Meeting Limits	Turbidity Limits	Unit of Measure	Source of Contaminant
2012	Turbidity	0.3	100.00	0.3	NTU	Soil Runoff

**Maximum Residual Disinfectant Level**

Year	Disinfectant	Average Level	Minimum Level	Maximum Level	MRDL	MRDLG	Unit of Measure	Source of Chemical
2012	Chloramine	2.78	2.09	3.34	4.0	<4.0	ppm	Disinfectant used to control microbes.

## Inorganic Contaminants

Year	Contaminant	Highest Level	Range of Levels	MCLG	MCL	Units	Violation	Source of Contaminant
2009	Barium	0.129	0.129-0.129	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
2012	Fluoride	0.3	0.26-0.26	4	4	ppm	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
2012	Nitrate	0.24	0.24-0.24	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.

## Radioactive Contaminants

Year	Contaminant	Highest Level	Range of Levels	MCLG	MCL	Units	Violation	Source of Contaminant
2009	Gross beta	5.4	5.4-5.4	0	50	pCi/L	N	Decay of natural and man-made deposits.
2009	Gross Alpha	2.9	2.9-2.9	0	15	pCi/L	N	Erosion of natural deposits.

## Disinfection Byproducts

Year	Contaminant	Highest Level	Range of Levels	MCLG	MCL	Units	Violation	Source of Contaminant
2012	Total Haloacetic Acids	46	31.6-47.7	No goal	60	ppb	N	Byproduct of drinking water disinfection.
2012	Total Trihalomethanes	90	69.1-88.4	No goal	80	ppb	Y	Byproduct of drinking water disinfection.

## Lead and Copper

Year	Contaminant	The 90 <sup>th</sup> Percentile	Number of Sites Exceeding Action Level	Action Level	Unit of Measure	Source of Contaminant
2009	Lead	1.83	0	15	ppb	Corrosion of household plumbing systems; Erosion of natural deposits.
2009	Copper	0.277	0	1.3	ppm	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives.

## Additional Health Information for Lead

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. This water supply is responsible for providing high quality drinking water, but 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>.

Public Notification Rule			
The Public Notification Rule helps to ensure that consumers will always know if there is a problem with their drinking water. These notices immediately alert consumers if there is a serious problem with their drinking water (e.g., a boil water emergency).			
Violation Type	Violation Begin	Violation End	Violation Explanation
Public Notice Rule Linked to Violation	08/03/2012	03/18/2013	We failed to adequately notify you, our drinking water consumers, about a violation of the drinking water regulations.
Public Notice Rule Linked to Violation	12/11/2012	12/18/2012	We failed to adequately notify you, our drinking water consumers, about a violation of the drinking water regulations.

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RETURN SERVICE REQUESTED

**Total Coliform** - REPORTED MONTHLY TESTS FOUND NO COLIFORM BACTERIA

**Fecal Coliform** - REPORTED MONTHLY TESTS FOUND NO FECAL COLIFORM BACTERIA.

**Violations**

<b>Violation Type</b>	<b>Health Effects</b>	<b>Duration</b>	<b>Explanation</b>	<b>Steps to Correct</b>
MCL Violation - Total Trihalomethanes (TTHM)	Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer.	1/1/2012 to 3/31/2012	TTHM levels were recorded at 89 ppb exceeding the MCL.	Engineer looking at alternative solutions.
MCL Violation - Total Trihalomethanes (TTHM)	Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer.	4/1/2012 to 6/30/2012	TTHM levels were recorded at 86 ppb exceeding the MCL.	Engineer looking at alternative solutions.
MCL Violation - Total Trihalomethanes (TTHM)	Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer.	7/1/2012 to 9/30/2012	TTHM levels were recorded at 83 ppb exceeding the MCL.	Engineer looking at alternative solutions.