1999 Drinking Water Quality Report

RRA - BOX COMMUNITY WATER SYSTEM
Red River Authority of Texas
900 8th Street, Suite 520
Wichita Falls, Texas 76301
940/723-8697

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.

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

Some people may be more vulnerable to contaminates 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 (800/426-4791).

En Espanol

Este reporte incluye informacion importante sobre el aqua para tomar. Para obtener una copia de esta informacion traducir al Espanol, favor de llamar al telefono 940/723–8697.

Where do we get our drinking water?

The RRA-Box Water System utilizes ground water from the alluvium formation purchased from the City of Vernon. The Texas Natural Conservation Commission (TNRCC) will be reviewing all of Texas' drinking water sources. The source water assessment process will be completed in three years. It is important to protect your drinking water by protecting your water source.

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 (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 940/723-8697.

For more information about the water quality of your water system, public participation programs, water conservation programs and/or general operations policies, call 940/723-8697 or e-mail the Authority at: info@rra.dst.tx.us. For service requests or reporting leaks after normal business hours, contact your District Manager, Mr. Mark Koch at 940/552-9420 or Mr. Jeff Christopher at 940/684-1400.

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, 65 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-Box Water System is one of the water systems operated by the Utility Division's District 13. In 1999, the system served 50 active connections with an average water use of 596 gallons per day per connection. The primary use of the water was rural domestic. No major capital improvement items were scheduled for 1999.

The Authority has upgraded the Utility Division's Water Conservation and Drought Contingency Plan. Information on the plan will be available on the Authority's web page at www.rrra.dst.tx.us or can be obtained by calling 940/723-8697.

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.

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

Action Level - 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

About The Attached Table

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

Inorganics

Year	Constituent	Highest Level at Any Sampling Point	Range of Detected Levels	MCL	MCLG	Unit of Measure	Source of Constituent
1999	Barium	0.27	0.2700-0.2700	2	2	ppm	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
1999	Fluoride	0.4	0.4000-0.4000	4	4	ppm	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
1999	Nitrate	15.69	15.6900-15.6900	10	10	ppm	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
1999	Selenium	2.1	2.1000-2.1000	50	50	ppb	Erosion of natural deposits.

Unregulated Contaminants

Year	Constituent	Average of All Sampling Points	Range of Detected Levels	Reason for Monitoring
1999-1999	Bromoform	2.3	2.3000-2.3000	Unregulated contaminant monitoring helps EPA to determine where certain contaminants occur and whether it needs to regulate those contaminants.
1999-1999	Chlorodibromomethane	1	1.0000-1.0000	Unregulated contaminant monitoring helps EPA to determine where certain contaminants occur and whether it needs to regulate those contaminants.

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.

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Lead and Copper

Year	Constituent	The 90th Percentile	Number of Sites Exceeding Action Level	Action Level	Unit of Measure	Source of Constituent
1997	Lead	3.4000	0	15	ppb	Corrosion of household plumbing systems; Erosion of natural deposits.
1997	Copper	0.1650	0	1.3	ppm	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives.

Violation Table

Violation	Explanation	Health Effects	Length	Steps to Correct
MCL-NITRATE	Nitrate levels were recorded at 15.69 ppm exceeding the MCL.	Infants below the age of six months who drink water containing nitrate in excess of the MCL could become seriously ill, and, if untreated, may die. Symptoms include shortness of breath and blue baby syndrome.	1/26/79 to Present	Alternate water sources and nitrate removal treatment techniques are currently under study by the Authority.

Nitrate

(Above 5 mg/l, but below the MCL)

Nitrate in drinking water at levels above 10 ppm is a health risk for infants less than six months of age. High nitrate levels in drinking water can cause blue baby syndrome. If you are caring for an infant you should seek advice from your health care provider.