



# 2005 Drinking Water Quality Report

## **RRA - DODSON WATER SYSTEM**

**Red River Authority of Texas**

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### **OUR DRINKING WATER IS REGULATED**

by the Texas Commission on Environmental Quality (TCEQ) and they have determined that certain water quality issues exist which prevent our water from meeting all of the requirements as stated in the Federal Drinking Water Standards. Each issue is listed in this report as a violation and we are working closely with the TCEQ to achieve solutions.

#### **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.

#### **En Espanol**

Este reporte incluye informacion importante sobre el agua para tomar. Si tiene preguntas o discusiones sobre este reporte en espanol, favor de llamar al tel. (940) 723-8697 par hablar con una persona bilingue en espanol.

#### **WHERE DO WE GET OUR DRINKING WATER?**

The **RRA-Dodson Water System** utilizes ground water from the Ogallala formation. The ground water is produced through Authority owned wells located in Collingsworth County, Texas. The Texas Commission on Environmental Quality (TCEQ) has completed 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 (940) 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 (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](mailto:info@rra.dst.tx.us). For service requests or reporting leaks after normal business hours, contact your District Manager, Mr. Michael Cook at (806) 205-0879 or Mr. Walt Rice at (806) 664-8385.

## **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-Dodson Water System** is one of the water systems operated by the Utility Division's District 16. In 2005, the system served 93 active connections with an average water use of 493 gallons per day per connection.

The primary use of the water was rural domestic. No major capital improvement items were scheduled for 2005.

The Authority maintains a Water Conservation and Drought Contingency Plan for the Utility Division. 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 (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.

### **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 (a measure of asbestos)

**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 cause 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 table contains all of the federally regulated or monitored constituents which have been found in your drinking water.

### Inorganic Contaminants

Year or Range	Contaminant	Average Level	Minimum Level	Maximum Level	MCL	MCLG	Unit of Measure	Source of Contaminant
2005	Barium	0.135	0.135	0.135	2	2	ppm	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
2005	Chromium	2.1	2.1	2.1	100	100	ppb	Discharge from steel and pulp mills; erosion of natural deposits.
2005	Fluoride	0.38	0.38	0.38	4	4	ppm	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
2005	Nitrate	10.64	8.68	12.8	10	10	ppm	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
2005	Gross beta emitters	4.1	4.1	4.1	50	0	pCi/L	Decay of natural and manmade deposits.
2005	Gross alpha	1.9	1.9	1.9	15	0	pCi/L	Erosion of natural deposits.

### Organic Contaminants - TESTING WAIVED, NOT REPORTED, OR NONE DETECTED

#### Maximum Residual Disinfectant

Year	Disinfectant	Average Level	Minimum Level	Maximum Level	MRDL	MRDLG	Unit of Measure	Source of Disinfectant
2005	Chlorine Residual, Free	1.28	0.8	2	4	4	ppm	Disinfectant used to control microbes.

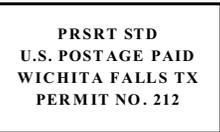
#### Disinfection Byproducts

Year	Contaminant	Average Level	Minimum Level	Maximum Level	MCL	Unit of Measure	Source of Contaminant
2004	Total Haloacetic Acids	1	1	1	60	ppb	Byproduct of drinking water disinfection.
2004	Total Trihalomethanes	5.4	5.4	5.4	80	ppb	Byproduct of drinking water disinfection.

#### Unregulated Contaminants

Bromoform, chloroform, dichlorobromomethane, and dibromochloromethane are disinfection byproducts. There is no maximum contaminant level for these chemicals at the entry point to distribution.

Year	Contaminant	Average Level	Minimum Level	Maximum Level	Unit of Measure	Source of Contaminant
2002	Bromoform	0.6	0.6	0.6	ppb	Byproduct of drinking water disinfection.
2002	Dibromochloromethane	0.7	0.7	0.7	ppb	Byproduct of drinking water disinfection.



RETURN SERVICE REQUESTED

**Turbidity - NOT REQUIRED**

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

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

**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
1999	Copper	0.122	0	1.3	ppm	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives.
1999	Lead	3.5	0	15	ppb	Corrosion of household plumbing systems; Erosion of natural deposits.

**VIOLATIONS**

Violation Type	Health Effects	Duration	Explanation	Steps to Correct
<b>MCL VIOLATION - NITRATE</b>	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.	01/1/2005 to 3/31/2005	Nitrate levels were recorded at 12.80 ppm, exceeding the MCL.	Alternative water sources and nitrate removal treatment techniques are currently under study by the Authority. Bottled water is provided to qualified persons.
<b>MCL VIOLATION - NITRATE</b>	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.	07/1/2005 to 9/30/2005	Nitrate levels were recorded at 12.20 ppm, exceeding the MCL.	Alternative water sources and nitrate removal treatment techniques are currently under study by the Authority. Bottled water is provided to qualified persons.
<b>MCL VIOLATION - NITRATE</b>	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.	10/1/2005 to 12/31/2005	Nitrate levels were recorded at 12.20 ppm, exceeding the MCL.	Alternative water sources and nitrate removal treatment techniques are currently under study by the Authority. Bottled water is provided to qualified persons.