

2010 Annual Drinking

Water Quality Report

(Consumer Confidence Report)

ANGELINA COUNTY FWSD 1

Phone Number: 936-639-3255

SPECIAL NOTICE

Required language for ALL community public water supplies:

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; those 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 your physician or health care provider. Additional guidelines appropriate means to lessen the risk of infection by Cryptosporidium are available from the Safe Drinking Water Hotline at (800) 426-4791.

Public Participation Opportunities

Date: July 12, 2011

Time: 4:00PM – 5:30 PM

Location: 210 Lufkin Avenue (ANRA Central Offices)

Phone Number: (936) 632-7795

To learn about future public meetings (concerning your drinking water), or to request to schedule one, please call us.

OUR DRINKING WATER IS REGULATED

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.

Source 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.

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.

En Español

Este informe incluye información importante sobre el agua potable. Si tiene preguntas o comentarios sobre este informe en español, favor de llamar al tel. (800)_282 - 5634 -para hablar con una persona bilingüe en español.

Where do we get our drinking water?

The source of drinking water used by ANGELINA COUNTY FWSD 1 is Purchased Ground Water. 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. Some of this source water assessment information is available on Texas Drinking Water Watch at <http://dww.tceq.state.tx.us/DWW/>. For more information on source water assessments and protection efforts at our system, please contact us.

ALL drinking water may contain contaminants

When drinking water meets federal standards there may not be any health 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 EPA's Safe Drinking Water Hotline (1-800-426-4791).

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

Required 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>.

Abbreviations

- 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
- ppt - parts per trillion, or nanograms per liter
- ppq - parts per quadrillion, or picograms per liter

Definitions

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 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 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.
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.
mrem:	millirems per year (a measure of radiation absorbed by the body)
ppb:	micrograms per liter or parts per billion - or one ounce in 7,350,000 gallons of water.
na:	not applicable.
Avg:	Regulatory compliance with some MCLs are based on running annual average of monthly samples.
ppm:	milligrams per liter or parts per million - or one ounce in 7,350 gallons of water.

Inorganic Contaminants

Year (Range)	Contaminant	Average Level	Min. Level	Max. Level	Mcl	Mclg	Unit Of Measure	Source Of Contaminant
2008	Fluoride	0.26	0.26	0.26	4	4	ppm	Erosion Of Natural Deposits; Water Additive Which Promotes Strong Teeth; Discharge From Fertilizer And Aluminum Factories.

Organic Contaminants TESTING WAIVED, NOT REPORTED, OR NONE DETECTED

Maximum Residual Disinfectant Level

Systems Must Complete And Submit Disinfection Data On The Disinfection Level Quarterly Operating Report (Dlqor). On The Ccr Report, The System Must Provide Disinfectant Type, Minimum And Average Levels.

Year	Disinfectant	Average Level	Min. Level	Max. Level	Mrdl	Mrdlg	Unit Of Measure	Source Of Chemical
2009	Chlorine Residual, Free	2.81	1.00	5.68	4.0	<4.0	ppm	Disinfectant Used To Control Microbes.

Disinfection Byproducts

Year	Contaminant	Average Level	Min. Level	Max. Level	Mcl	Unit Of Measure	Source Of Contaminant
2009	Total Haloacetic Acids	24.6	24.6	24.6	60	ppb	Byproduct Of Drinking Water Disinfection.
2009	Total Trihalomethanes	51.2	51.2	51.2	80	ppb	Byproduct Of Drinking Water Disinfection.

Unregulated Initial Distribution System Evaluation For Disinfection Byproducts

This Evaluation Is Sampling Required By Epa To Determine The Range Of Total Trihalomethane And Haloacetic Acid In The System For Future Regulations. The Samples Are Not Used For Compliance, And May Have Been Collected Under Non-Standard Conditions. Epa Also Requires The Data To Be Reported Here.

Year Or Range	Contaminant	Average Level	Min. Level	Max. Level	Mcl	Unit Of Measure	Source Of Contaminant
2007	Total Haloacetic Acids	16.9	15.1	18.4	NA	ppb	Byproduct Of Drinking Water Disinfection.
2007	Total Trihalomethanes	42.2	38.7	49.6	NA	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 Or Range	Contaminant	Average Level	Min. Level	Max. Level	Unit Of Measure	Source Of Contaminant
2008	Chloroform	8.9	8.9	8.9	ppb	Byproduct Of Drinking Water Disinfection.
2008	Bromodichloromethane	7.6	7.6	7.6	ppb	Byproduct Of Drinking Water Disinfection.
2008	Dibromochloromethane	4.4	4.4	4.4	ppb	Byproduct Of Drinking Water Disinfection.

LEAD AND COPPER

Year	Contaminant	The 90 th Percentile	Number Of Sites Exceeding Action Levels	Action Level	Unit Of Measure	Source Of Contaminant
2009	Lead	5.3	0	15	ppb	Corrosion Of Household Plumbing Systems; Erosion Of Natural Deposits.
2009	Copper	0.581	0	1.3	ppm	Corrosion Of Household Plumbing Systems; Erosion Of Natural Deposits; Leaching From Wood Preservatives.

REQUIRED 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.](http://www.epa.gov/safewater/lead)”

TURBIDITY NOT REQUIRED

TOTAL COLIFORM REPORTED MONTHLY TESTS FOUND NO COLIFORM BACTERIA.

FECAL COLIFORM REPORTED MONTHLY TESTS FOUND NO FECAL COLIFORM BACTERIA

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Secondary And Other Constituents Not Regulated

(No Associated Adverse Health Effects)

Year Or Range	Constituent	Average Level	Min. Level	Max. Level	Secondary Limit	Unit Of Measure	Source Of Constituent
2008	Bicarbonate	234	234	234	NA	ppm	Corrosion Of Carbonate Rocks Such As Limestone.
2008	Chloride	23	23	23	300	ppm	Abundant Naturally Occurring Element; Used In Water Purification; Byproduct Of Oil Field Activity
2008	Ph	7.6	7.6	7.6	>7.0	units	Measure Of Corrosivity Of Water.
2008	Sulfate	65	65	65	300	ppm	Naturally Occurring; Common Industrial Byproduct; Byproduct Of Oil Field Activity.
2008	Total Alkalinity As Caco3	192	192	192	NA	ppm	Naturally Occurring Soluble Mineral Salts.
2008	Total Dissolved Solids	352	352	352	1000	ppm	Total Dissolved Mineral Constituents In Water.

Regulated Contaminants

2010 Regulated Contaminants Detected

Disinfectants and Disinfection By-Products	Collection Date	Highest Single Sample	Range of Levels Detected	MCL G	MCL	Units	Violation	Likely Source of Contamination
Haloacetic Acids (HAA5)*	2010	17.4	17.4 - 17.4	No goal for the total	60	ppb	N	By-product of drinking water chlorination.

Total Trihalomethanes (TThm)*	2010	57.9	57.9 - 57.9	No goal for the total	80	ppb	N	By-product of drinking water chlorination.
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