



# Consumer Confidence Report 2010

## Drinking Water Quality Report For The CITY OF BASTROP

Water & Wastewater Department  
512-332-8960  
James Miller, Director

Visit our Website at  
[www.cityofbastrop.org](http://www.cityofbastrop.org) to  
view this report and other  
information about our City.

### Public Participation Opportunities

The Water Department is part of the Bastrop City Government. You are invited to attend City Council meetings on the 2<sup>nd</sup> & 4<sup>th</sup> Tuesday of every month. Regular sessions begin at 6:00 p.m. in the Council Chambers, 1311 Chestnut Street. Contact the City Secretary at (512) 332-8800 for details.

*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. (512) 332-8960 para hablar con una persona bilingue español.*



### SPECIAL NOTICE

You may be more vulnerable than the general population to certain microbial contaminants, such as *Cryptosporidium*, in drinking water. Infants, some elderly or immuno-compromised persons such as those undergoing chemotherapy for cancer; 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 from your physician or health care provider. Additional guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* are available from the Safe Drinking Water Hotline (1-800-426-4791).

### Our Drinking Water Is Regulated

**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.

### SOURCE OF DRINKING WATER

The sources of drinking water (both tap 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 pick up substances resulting from the presence of animals or from human activity. Contaminants that may be present in source water **before treatment** 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.



**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 atleast 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).

## Where Do We Get Our Drinking Water?

The source of drinking water used by the city of Bastrop is GROUNDWATER. 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.

### 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.

The tables below list all of the federally regulated or monitored contaminants which have been found in your drinking water. The U.S. EPA requires water systems to test for up to 97 contaminants.



### 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 (ug/l)  
 ppt - parts per trillion, or nanograms per liter  
 ppq - parts per quadrillion, or picograms per liter



## 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>.

### DEFINITIONS

*The following tables contain scientific terms and measures, some of which may require explanation.*

- 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 and microbial contaminants.
- Maximum Residual Disinfectant Level Goal (MRDLG)** - The level of 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.
- Avg** - Regulatory compliance with some MCL's are based on running annual average of monthly samples.

### LEAD and COPPER

Year (Range)	Contaminant	The 90 <sup>th</sup> Percentile	Number of Sites Exceeding Action Level	Action Level	Unit of Measure	Source of Contaminant
2009	Lead	1.6	0	15	ppb	Corrosion of household plumbing systems; erosion of natural deposits.
2009	Copper	0.951	0	1.3	ppm	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservations.

### Disinfection Byproducts

### REGULATED CONTAMINANTS

Collection Date	Contaminant	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Unit of Measure	Likely Source of Contamination
2010	Total Haloacetic Acids	23.6	1.5 - 23.6	No Goal for the Total	60	ppb	Byproduct of drinking water chlorination.
2010	Total Trihalomethanes	95.8	8.3 - 95.8	No Goal for the Total	80	ppb	Byproduct of drinking water chlorination.

### INORGANIC CONTAMINANTS

Collection Date	Contaminant	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Unit of Measure	Likely Source of Contamination
05/14/2008	Barium	.11	.11 - .11	2	2	ppm	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits.
01/13/2009	Fluoride	1.19	1.19 - 1.19	4	4	ppm	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories.
2010	Nitrate	2.5	1.85 - 2.5	10	10	ppm	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits.

### RADIOACTIVE CONTAMINANTS

Collection Date	Contaminant	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Unit of Measure	Likely Source of Contamination
2010	Beta/Photon Emitters	5.3	5.1 - 5.3	0	4	pCi/L	Decay of natural and man-made deposits.

### MAXIMUM RESIDUAL DISINFECTANT LEVEL

Year	Contaminant	Average Level	Minimum Level	Maximum Level	MRDL	MRDLG	Unit of Measure	Source of Contaminant
2010	Chlorine Residual, Free	1.01	.50	2.55	4	<4	ppm	Disinfectant used to control microbes.

**Organic Contaminants:** Testing Waived, Not Reported, or None Detected.

**Turbidity:** Not Required.

**Total Coliform:** Reported Monthly Tests Found NO COLIFORM BACTERIA

**Fecal Coliform:** Reported Monthly Tests Found NO FECAL COLIFORM BACTERIA.

### 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	Contaminant	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Unit of Measure	Likely Source of Contaminant
2010	Total Haloacetic Acids	23.6	1.5 - 23.6	No Goal for the total	60	ppb	Byproduct of drinking water disinfection.
2010	Total Trihalomethanes	95.8	8.3 - 95.8	No Goal for the total	80	ppb	Byproduct of drinking water disinfection.

### Unregulated Contaminants

NOT REPORTED OR NONE DETECTED

### SECONDARY and OTHER CONSTITUENTS NOT REGULATED

(No associated adverse health effects)

Year (Range)	Constituents	Average Level	Minimum Level	Maximum Level	Limit	Unit of Measure	Source of Constituents
2009 - 2008	Bicarbonate	245	224	265	NA	ppm	Corrosion of carbonate rocks such as limestone.
2008 - 2005	Calcium	84.1	78.6	89.6	NA	ppm	Abundant naturally occurring element.
2009 - 2008	Chloride	51	44	57	300	ppm	Abundant naturally occurring element; used in water purification; byproduct of oil field activity.
2008 - 2005	Copper	0.014	0.008	0.021	1	ppm	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives.
2008 - 2005	Magnesium	17.3	16.4	18.1	NA	ppm	Abundant naturally occurring element.
2008 - 2005	Manganese	0.0043	0	0.0086	.05	ppb	Abundant naturally occurring element.
2008 - 2005	Nickel	0.002	0.001	0.002	NA	Ppm	Erosion of natural deposits.
2009 - 2008	pH	7.1	7	7.2	>7.0	Units	Measure of corrosivity of water.
2008 - 2005	Sodium	26	24	28	NA	ppm	Erosion of natural deposits; byproduct of oil field activity.

2009 – 2008	Sulfate	52	49	54	300	ppm	Naturally occurring; common industrial byproduct; byproduct of oil field activity.
2009 – 2008	Total Alkalinity as CaCO3	201	184	217	NA	ppm	Naturally occurring soluble mineral salts.
2009 – 2008	Total Dissolved Solids	380	374	385	1000	ppm	Total dissolved mineral constituents in water.
2008 - 2005	Total Hardness as CaCO3	281	264	298	NA	ppm	Naturally occurring calcium.



**PWS ID#: TX0110001**  
**2010 CONSUMER CONFIDENCE REPORT**

**CONTACT US**

Account Information/Billing Questions	512-332-8830
Report Water Main Breaks/Sewer Stops (24 hours)	512-332-8960
Water Quality Inquiries/Complaints	512-332-8960

**VISIT US**

Customer Service Office  
1311 Chestnut Street  
Bastrop, Texas 78602  
Monday – Friday 7:00 a.m. to 4:00 p.m.

**OR**

Water & Wastewater Department  
300 Water Street  
Bastrop, Texas 78602  
Monday – Friday 7:00 a.m. to 4:00 p.m.

**City of Bastrop**  
Water & Wastewater Department  
P.O. Box 427  
Bastrop, Texas 78602

