

**The City of Manning Water System  
2010 Annual Drinking Water Quality Report  
System # 1410002**

We're pleased to present to you this year's Annual Quality Water Report. This report is designed to inform you about the quality water and services we deliver to you every day. Our constant goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water. Our water source is the Middenforf Aquifer. We produce your drinking water from four active wells. If you have any questions about this report or concerning your water utility, please contact Rubin Hardy at (803) 435-8477 extn 70. We want our valued customers to be informed about their water utility. If you want to learn more, please attend any of our regularly scheduled meetings. They are held at 6:30 pm, on the third Monday of each month at City Hall. Our Source Water Assessment Plan is available for your review at [www.scdhec.gov/water/html/srcwtr.html](http://www.scdhec.gov/water/html/srcwtr.html). If you do not have internet access, please contact Rubin Hardy at (803)435-8477 extn 70 to make arrangements to review this document.

The City of Manning routinely monitors for constituents in your drinking water according to Federal and State laws. This table shows the results of our monitoring for the period of January 1<sup>st</sup> to December 31<sup>st</sup>, 2010. As water travels over the land or underground, it can pick up substances or contaminants such as microbes, inorganic and organic chemicals, and radioactive substances. All drinking water, including bottled drinking water, may be reasonably expected to contain at least small amounts of some constituents. It's important to remember that the presence of these constituents does not necessarily pose a health risk.

In this table you will find many terms and abbreviations you might not be familiar with. To help you better understand these terms we've provided the following definitions:

*Non-Detects (ND)* - laboratory analysis indicates that the constituent is not present.

*Parts per million (ppm) or Milligrams per liter (mg/l)* - one part per million corresponds to one minute in two years or a single penny in \$10,000.

*Parts per billion (ppb) or Micrograms per liter* - one part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

*Parts per trillion (ppt) or Nanograms per liter (nanograms/l)* - one part per trillion corresponds to one minute in 2,000,000 years, or a single penny in \$10,000,000,000.

*Action Level* - the concentration of a contaminant that, if exceeded, triggers treatment or other requirements that a water system must follow.

*Maximum Contaminant Level (MCL)* - (mandatory language) The "Maximum Allowed" (MCL) is 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 Contaminant Level Goal (MCLG)* -The "Goal" (MCLG) is 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 Residual Disinfectant Level (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.

*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 contaminants.

<b>TEST RESULTS</b>						
Contaminant	Violation Y/N	Level Detected	Unit Measurement	MCLG	MCL	Likely Source of Contamination
<b>Inorganic Contaminants</b>						
Fluoride* (2008)	N	1 Range: 0.28-1	ppm	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Nitrate (as Nitrogen) (2010)	N	0.065 Range 0 – 0.065	ppm	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
<b>Lead and Copper</b>						
Contaminant	Violation Y/N	90 <sup>th</sup> percentile	Unit Measurement	Action Level	Sites over action level	Likely Source of Contamination

Copper (2009)	N	0.031	ppm	1.3	0	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.
Lead (2009)	N	2	ppb	15	0	Corrosion of household plumbing systems, erosion of natural deposits
<b>Disinfectant &amp; Disinfectant By-Products</b>						
Chlorine (2010)	N	0.23 Range: 0.21-0.24	ppm	MRDL: 4	MRDLG: 4	Water additive used to control microbes
<b>Radioactive Contaminants</b>						
Combined Radium 226/228 (2008)	N	0.8 Range: 0.8-0.8	pCi/L	0	5	Erosion of natural deposits
Gross alpha excludng radon and uranium (2008)	N	0.9 Range: 0.9-0.9	pCi/L	0	15	Erosion of natural deposits

<b>Violation Table</b>			
<b>Disinfectants and Disinfection Byproducts Rule 2</b>			
The Stage 2 DBP rule builds upon earlier rules that addressed disinfection byproducts to improve your drinking water quality and provide additional public health protection from disinfection byproducts.			
Violation Type	Violation Begin	Violation End	Violation Explanation
FAILURE SUBMIT IDSE/SUBPT V PLAN (DBP2)	7/2/10	1/16/11	We failed to submit our initial distribution system evaluation (IDSE) report our regulator. The IDSE report is needed to determine the best locations to use for sampling disinfection byproducts.

*\*Fluoride.* Some people who drink water containing fluoride in excess of the MCL over many years could get bone disease, including pain and tenderness of the bones. Children may get mottled teeth. South Carolina has a secondary standard of 2.0ppm

We're proud that your drinking water meets or exceeds all Federal and State requirements. We have learned through our monitoring and testing that some constituents have been detected. The EPA has determined that your water IS SAFE at these levels.

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. The City of Manning 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 drinking 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>.

All sources of drinking water are subject to potential contamination by substances that are naturally occurring or man made. These substances can be microbes, inorganic or organic chemicals and radioactive substances. All 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 the 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 1-800-426-4791.

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/CDC guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbiological contaminants are available from the Safe Drinking Water Hotline 1-800-426-4791.