

2012 Annual Drinking Water Report

Town of Burgaw, NC

PWS ID# 04-71-010

We are pleased to present to you the 2012 Annual Drinking Water Quality Report. This report is a record of last year's water quality. Included are details about from where your water comes, what it contains, and how it compares to standards set by regulatory agencies. 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 and to provide you with this information.

What EPA Wants You to Know

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).

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 (800-426-4791).

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 pick up 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; and radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

When You Turn on Your Tap, Consider the Source—

The Town of Burgaw supplies your drinking water from four "deep" wells, not surface water. These wells are not susceptible to the runoff drainage issues listed in the proceeding paragraphs. These wells withdraw water from the Black Creek Aquifer. They supply about 500,000 gallons of drinking water each day. The Town treats this water with sodium hypochlorite 15% liquid chlorine, with no less than 0.2mg/l at the point of use as required by NCDENR.

Source Water Assessment Program (SWAP) Results

The North Carolina Department of Environment and Natural Resources (DENR), Public Water Supply (PWS) Section, Source Water Assessment Program (SWAP) conducted assessments for all drinking water sources across North Carolina. The purpose of the assessments was to determine the susceptibility of each drinking water source (well or surface water intake) to Potential Contaminant Sources (PCSs). The results of the assessment are available in SWAP Assessment Reports that include maps, background information and a relative susceptibility rating of Higher, Moderate or Lower.

The relative susceptibility rating of each source for the Town of Burgaw was determined by combining the contaminant rating (number and location of PCSs within the assessment area) and the inherent vulnerability rating (i.e.,

characteristics or existing conditions of the well or watershed and its delineated assessment area.). The assessment findings are summarized in the table below:

Source Name	Susceptibility Rating	SWAP Report Date
Ashe St. well	Moderate	March 15, 2005
S. Smith well	Moderate	March 15, 2005
N. Smith well	Moderate	March 15, 2005
Wright St. well	Moderate	March 15, 2005

The complete SWAP Assessment report for the Town of Burgaw may be viewed on the Web at: www.ncwater.org/pws/swap. Please note that because SWAP results and reports are periodically updated by the PWS Section, the results available on this web site may differ from the results that were available at the time this CCR was prepared. To obtain a printed copy of this report, please mail a written request to: Source Water Assessment Program – Report Request, 1634 Mail Service Center, Raleigh NC 27699-1634, or email request to swap@ncdenr.gov. Please indicate your system name, PWSID, and provide your name, mailing address and phone number. If you have any questions about the SWAP report please contact the Source Water Assessment staff by phone at 919-707-9098.

It is important to understand that a susceptibility rating of “higher” does not imply poor water quality, only the systems’ potential to become contaminated by PCS’s in the assessment area

Violations that Your Water System Received for the Report Year 2012

The Town is proud to report that your water system has had no violations and that your drinking water meets or exceeds all Federal and State standards

We routinely monitor for over 150 contaminants in your drinking water according to Federal and State laws. The presence of contaminants does not necessarily indicate that water poses a health risk. The EPA or the State requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Some of the data, though representative of the water quality, is more than one year old.

We also conduct testing for Lead & Copper every three years. 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 Town of Burgaw 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 thirty seconds to two 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 State Drinking Water Hotline or at <http://www.epa.gov/safewater/lead>.

Unregulated contaminants are those for which EPA has not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist EPA in determining the occurrence of unregulated contaminants in drinking water and whether future regulation is warranted.

Microbiological Substances					
Substance (units)	MCL Violation Y/N	Your Water	MCLG	MCL	Likely Source
Total Coli form Bacteria (presence or absence)	N	0	0	One monthly positive	Naturally present in the environment

Inorganic Substances							
Substance (units)	Sample Date	MCL Violation Yes/No	Your Water AVG.	Range Low – High	MCLG	MCL	Likely Source
Fluoride (ppm)	12/07/09	No	1.47	1.1 - 1.7	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories.

Lead and Copper Substances						
Substance (units)	Sample Date	Your Water	# of sites found above the AL	MCLG	MCL	Likely Source
Copper (ppm) (90 th percentile)	Aug 2010	0.150	0	1.3	AL = 1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead (ppb) (90 th percentile)	Aug 2010	.004	0	0	AL = .015	Corrosion of household plumbing systems; erosion of natural deposits

Radiological Substances						
Substance (units)	Sample Date	Your Water AVG.	Range Low - High	MCLG	MCL	Likely Source of Contamination
Alpha emitters (pCi/l)	2004 Quarterly Composite	N/D	Not Detected	0	15	Erosion of natural deposits
Gross Beta (pCi/l)	2004 Quarterly Composite	7	4-10	0	50	Decay of natural and man-made deposits

Disinfection By-Product Contaminants						
Substance (units)	MCL/MRDL Violation Yes/No	Your Water AVG.	Range Low - High	MCLG	MCL	Likely Source of Contamination
TTHM (ppb) [Total Trihalomethanes]	No	74	25-158	N/A	80	By-product of drinking water chlorination
HAA5 (ppb) [Total Halo acetic Acids]	No	15	0-31	N/A	60	By-product of drinking water disinfection
Chlorine (ppm)	No	0.62	0.06-2.2	MRDLG = 4	MRDL = 4	Water additive used to control microbes

For TTHM: *Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer.*

Secondary Contaminants, required by the NC Public Water Supply Section, are substances that affect the taste, odor, and/or color of drinking water. These aesthetic contaminants normally do not have any health effects and normally do not affect the safety of your water.

Water Characteristics Contaminants				
Contaminant (units)	Sample Date	Your Water (AVG)	Range (Low – High)	Secondary MCL
Sodium (ppm)	01/12/10	156	15-300	N/A

Important Drinking Water Definitions

Not-Applicable (N/A) – Information not applicable/not required for that particular water system or for that particular rule.

Non-Detects (ND) - laboratory analysis indicates that the contaminant is not present at the level of detection set for the particular methodology used.

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.

Action Level (AL) -the concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

Treatment Technique (TT) - A treatment technique is a required process intended to reduce the level of a contaminant in drinking water.

Maximum Residual Disinfection Level Goal – The “Level” (MRDLG) 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 Disinfection Level – The “Highest Level” (MRDL) of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Maximum Contaminant Level - 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 - 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.

Extra Note: MCL’s are set at very stringent levels. To understand the possible health effects described for many regulated constituents, a person would have to drink 2 liters of water every day at the MCL level for a lifetime to have a one-in-a-million chance of having the described health effect.

“This is an equal opportunity program. Discrimination is prohibited by Federal Law. Complaints of discrimination may be filed with the USDA, Director, Office of Civil rights, 1400 Independence Ave.,S.W., Washington, DC 20250-9410.”

What If I Have Any Questions?

If you have any questions about this report or concerning your water, please contact the Public Works Director at 259-2901. We want our valued customers to be informed about their water utility.

Thank you