

April 1, 2011

**2010 ANNUAL DRINKING WATER QUALITY REPORT
FRANKLIN COUNTY PUBLIC UTILITIES
PWDS ID # 02-35-030**

We are pleased to provide you with this year's Annual Water Quality Report. This report is a snapshot 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 providing you with this information because informed customers are our best allies.

If you have any questions about this report or concerning your water, please contact Bryce Mendenhall at 919-556-6177. 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. The meetings are held in the Commissioners Room on the second floor of the Franklin County Administrative Office, 113 Market Street, Louisburg N.C., on the first and third Monday of each month.

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 (1-800-426-4791).

“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. Franklin County Public Utilities 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>.”

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised persons such as persons with 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).

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, 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

At the present, Franklin County Public Utilities has two water sources. We purchase potable water from the Town of Louisburg and the City of Henderson. Raw water from Louisburg comes from Tar River. Henderson supplies us with water from Kerr Lake, which is a surface supply. All tests are run by Louisburg and Henderson except TThm, a by-product of drinking water chlorination, Copper, Lead and monthly Bacteria which are run by Franklin County. We are pleased to report that our drinking water is safe and meets all federal and state requirements.

Louisburg, Henderson and Franklin County routinely monitor for contaminants in your drinking water according to Federal and State Laws. 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 contaminants. It is important to remember that the presence of these contaminants does not necessarily pose a health risk.

At this time, the Town of Franklinton is no longer an active supplier of water to Franklin County.

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 Franklin County Public Utilities was determined by combining the contaminant rating (number and location 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 below.

Susceptibility of Sources to Potential Contaminant Sources (PCSs)

Franklinton:

Source Name	Susceptibility Rating	SWAP Report Date
Taylor Creek	Lower	March 2007
Cedar Creek	Moderate	March 2007

Louisburg:

Source Name	Susceptibility Rating	SWAP Report Date
Tar River	Higher	March, 2005

Henderson:

Source Name	Susceptibility Rating	SWAP Report Date
Kerr Lake	Moderate	February, 2010

The complete SWAP Assessment report for Franklin County may be viewed on the Web at: <http://www.deh.enr.state.nc.us/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@ncmail.net. 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 919-715-2633.

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.

What If I Have Any Questions Or Would Like to Become More Involved

Should you have any questions about this report or concerning your water utility, please contact Bryce Mendenhall, Director of Franklin County Public Utilities. Our mailing address and Administrative Office location is 1630 US Hwy 1, Youngsville, North Carolina, 27596. Our phone number is 919-556-6177. Our fax number is 919-556-6709. Mr. Mendenhall’s email address is bmendenhall@franklincountync.us.

Results of Cryptosporidium Monitoring

Cryptosporidium is a microbial pathogen found in surface water throughout the U.S. Although filtration removes cryptosporidium, the most commonly-used filtration methods cannot guarantee 100 percent removal. Our monitoring indicates the presence of the organisms in our source water and / or finished water. Current test methods do not allow us to determine if the organisms are dead or if they are capable of causing disease. Ingestion of cryptosporidium may cause cryptosporidiosis, an abdominal infection. Symptoms of infection include nausea, diarrhea, and abdominal cramps. Most healthy individuals can overcome the disease within a few weeks. However, immune-compromised people are at greater risk of developing life-threatening illness. We encourage immune-compromised individuals to consult their doctor regarding appropriate precautions to take to avoid infection. Cryptosporidium must be ingested to cause disease, and it may spread through means other than drinking water.

Water Quality Data Table of Detected Contaminants

We routinely monitor for over 150 contaminants in your drinking water according to Federal and State laws. The table below lists all the drinking water contaminants that we detected in the last round of sampling for the particular contaminant group. The presence of contaminants does not necessarily indicate that water poses a health risk. **Unless otherwise noted, the data presented in this table is from testing done January 1, 2010 through December 31, 2010.**

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.

In this table you will find many terms and abbreviations that you might not be familiar with. To help you better understand these terms we have provided the following 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 constituent is not present.

Parts per Million (ppm) or Milligrams per liter (mg/l) – one part 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.

Parts per quadrillion (ppq) or one penny in \$10,000,000,000,000.

Picocuries per liter (pCi/L) – picouries per liter is a measure of the radioactivity in water.

Millirems per year (mrem/yr) – measure of radiation absorbed by the body.

Million Fibers per Liter (MFL0 – million fibers per liter is a measure of the presence of asbestos fibers that are longer than 10 micrometers.

Nephelometric Turbidity Unit (NTU) – nephelometric turbidity unit is a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

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

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

Maximum Contaminant Level – (mandatory language) – The “Maximum Allowed” (MCL) is the highest level of a contaminant is allowed in drinking water. MCL’s are set as close to the MCLGs as feasible using the best available treatment technology.

Maximum Contaminant Level Goal – (mandatory language) – The ‘Goal’ (MCLG) is the level of a contaminant in drinking water below which there is no known expected risk to health. MCLGs allow for a margin safety.

.....

The Town of Louisburg routinely monitors for contaminants in your drinking water according to Federal and State laws. This table shows the results of the Louisburg Water Plant for the period of January 1st to December 31st, 2010.

Contaminants	MCLG Or MRDLG	MCL, TT, OR MRDL	Your Water	Range Low/High	Sample Date	Violation	Typical Source
--------------	---------------	------------------	------------	----------------	-------------	-----------	----------------

Disinfectants & Disinfectant By-Products

(The is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants)

Haloacetic Acids (HAA5)(ppb)	N / A	60	33.66	18.6 (L) 48.9 (H)	2010	No	By product of drinking water chlorination
TTHM's(Total Trihalomethanes) (ppb)	N/ A	80	53.46	24.8 (L) 103.9 (H)	2010	No	By product of drinking water disinfection
Total Organic Carbon (% Removal)	N/A	TT	1.29	N / A	2010	No	Naturally present in the environment
Chlorine (as Cl2)	4	4	1.28	.52 (L)	2010	No	Water

(ppm)				1.94 (H)			additive used to control microbes
-------	--	--	--	----------	--	--	-----------------------------------

Contaminants	MCLG Or MRDLG	MCL, TT, OR MRDL	Your Water	Range Low/High	Sample Date	Violation	Typical Source
--------------	---------------	------------------	------------	----------------	-------------	-----------	----------------

Inorganic Contaminants

Barium (ppm)	2	2	.021	N/A		2010	No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Fluoride (ppm)	4	4	1.16	N/A		2010	No	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
Sodium		MPL	19	N/A		2010	No	Erosion of natural deposits; Leaching

Contaminants	MCLG Or MRDLG	MCL, TT, OR MRDL	Your Water	Range Low/High	Sample Date	Violation	Typical Source
--------------	---------------	------------------	------------	----------------	-------------	-----------	----------------

Microbiological Contaminants

Total Coliform (positive samples/month)	0	1	0	NA	2010	No	Naturally present in the environment
--	---	---	---	----	------	----	--------------------------------------

Turbidity (NTU)	NA	.03	100	NA	2010	NO	Soil runoff
-----------------	----	-----	-----	----	------	----	-------------

100% of the samples were below the TT value of 0.3. A value less than 95% constitutes a TT violation. The highest single measurement was 0.16. Any measurement in excess of 1 is a violation unless otherwise approved by the state.

Synthetic Organic Contaminants Including Pesticides and Herbicides

Di (2-ethylhexyl) adipate (ppb)	400	400	1.67	NA	2010	No	Discharge from chemical factories
----------------------------------	-----	-----	------	----	------	----	-----------------------------------

Contaminants	MCLG	AL	Your Water	Sample Date	# Samples Exceeding AL	Exceeds AL	Typical Source
--------------	------	----	------------	-------------	------------------------	------------	----------------

Inorganic Contaminants

Copper-action level at consumer taps (ppm)	1.3	1.3	.081	2009	0	No	Corrosion of household plumbing systems; Erosion of natural deposits
Lead-action level at consumer taps (ppb)	0	15	5	2009	0	No	Corrosion of household plumbing systems; Erosion of natural deposits

Undetected Contaminants

The following contaminants were monitored for , but not detected, in your water.

Contaminants	MCLG or MRDLG	MCL or MRDL	Your Water	Violation	Typical Source
Sulfate (ppm)	MNR	MNR	ND	No	

The Town of Franklinton routinely monitors for contaminants in your drinking water according to Federal and State Laws. This table shows the results of the Franklinton's Water Plant for the period of January 1st to December 31st, 2010.

Microbiological Contaminants

Contaminant (Units)	MCL Violation		MCLG	MCL	Likely Source of Contamination
	Y/N	Your Water			
Total Coli form Bacteria (presence or absence)	N	Absent	0	One positive sample	Naturally present in the environment
Fecal Coli form or E. coli (presence or absence)	N	Absent	0	0 (Note: The MCL is exceeded if a routine sample	Human and animal fecal waste

				and repeat sample are total coli form positive, and one is also fecal coli form or E. coli positive)	
--	--	--	--	--	--

Turbidity-Systems with population <10,000

Contaminant (Units)	MCL Violation Y/N	Your Water	MCLG	MCL	Likely Source of Contamination
Turbidity (NTU)	N	.10 ----- 100%	NA	TT= 1 NTU TT = Percentage of samples < 0.3 NTU	Soil runoff

**Turbidity is a measure of the cloudiness of the water. We monitor it because it a good indicator of the effectiveness of our filtration system. The turbidity rule requires that 95% or more of the monthly samples must be less than or equal to 0.3 NTU.

Unregulated Inorganic Contaminant

Contaminant (units)	Sample Date	Your Water	Range: Low/High	Secondary MCL
Sulfate(ppm)	2/2010	51.1	N/A	250

Synthetic Organic Chemical (SOC) Contaminants Including Pesticides and Herbicides

NO SOC'S WERE DETECTED

Asbestos Contaminant

Contaminant (units)	Sample Date	MCL Violation Y/N	Your Water	Range Low High	MCLG	MCL	Likely Source of Contamination
Total Asbestos (MFL)	3/2003	N	.2	N/A	7	7	Decay of asbestos cement water mains; erosion of natural deposits

Lead and Copper Contaminants

Contaminant (units)	Sample Date	Your Water	# of sites found above the AL	MCLG	MCL	Likely Source of Contamination
Copper(ppm) (90 th percentile)	9/2010	.274	0	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead(ppb) 90 th percentile	9/2010	N/A	0	0	AL=15	Corrosion of household plumbing systems, erosion of natural deposits

Disinfection By-Product Precursor Contaminants

Contaminants (units)	TT Violation Y/N	Your Water(RAA Removal Ratio)	Range Monthly Removal ratio Low/High	MCLG	MCL	Likely Source of Contamination	Compliance Method (Step 1 or ACC#)
Total Organic Carbon (Removal ratio) (TOC)- TREATED	N	1.16	.94 (L) 1.31 (H)	N/A	TT	Naturally present in the environment	Step 1

STEP 1 TOC Removal Requirements			
Source Water TOC (mg/L)		Source Water Alkalinity	
		MG/L as CaCO3 (in percentages)	
		0-60	>60-120
> 2.0 – 4.0		35.0	25.0
>4.0 – 8.0		45.0	35.0
> 8.0		50.0	40.0

Disinfectants and Disinfection By-Products Contaminants

Contaminant (units)	MCL/MRDL Violation(Y/N)	Your Water(avg)	Range Low High	MCLG	MCL	Likely Source of Contamination
TTHM(ppb) (Total Trihalomethanes)	N	64	34(L) 80(H)	N/A	80	By-product of drinking water chlorination
HAA5 (ppb) (Total Haloacetic Acids)	N	38	16(L) 39(H)	N/A	60	By-product of drinking water disinfection
Chlorine(ppm)	N	.50	.21(L) 1.34(H)	MRDLG=4	MRDL=4	Water additive used to control microbes

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	Secondary MCL
Sodium(ppm)	2/2010	33.9	N/A
pH	2/2010	7.6	6.5 to 8.5

** Range Low/High: N/A

The City of Henderson routinely monitors for contaminants in your drinking water according to Federal and State Laws. This table shows the results of the Henderson's Water Plant for the period of January 1st to December 31st, 2010.

Sampling Results

Regulated Substances							
Substance (Unit of Measure)	Year Sampled	MCL (MRDL)	MCLG (MRDLG)	Amount Detected	Range Low-High	Violation	Typical Source
Chlorine (ppm)	2010	(4)	(4)	.95	0.20-1.63	No	Water additive used to control microbes
Fluoride (ppm)	2010	4	4	1.03	0.86-1.20	No	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
Halo acetic Acids (HAA)	2010	60	NA	21.4	13-31	No	By-product of drinking water disinfection
TTHMs (Total Trihalomethanes) (ppb)	2010	80	NA	47.8	31.70	No	Naturally present in the environment
Total Organic Carbon (TOC) (ppm)	2010	TT	NA	1.10	1.00-1.22	No	Naturally present in the environment
Turbidity (NTU)	2010	TT=1 NTU	NA	.11	0.01-0.11	No	Soil runoff

Turbidity (Lowest monthly percent of samples meeting limit)	2009	TT=1 NTU	NA	100	N/A	No	Soil runoff
---	------	----------	----	-----	-----	----	-------------

Tap water samples were collected for lead and copper analyses from sample sites throughout the community

Substance (Unit of Measure)	Year Sampled	AL	MCLG	Amount Detected (90 th % tile)	Sites above AL/Total Sites	Violation	Typical Source
Copper (ppm)	2008	1.3	1.3	0.147	0/30	no	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives

Secondary Substances

Substance (Unit of Measure)	Year Sampled	MCL	MCLG	Amount Detected	Range Low-High	Violation No	Typical Source
Sulfate (ppm)	2010	250	NA	21.7	21.7-21.7	No	Runoff/leaching from natural deposits; Industrial wastes

Unregulated Substances

Substance (Unit of Measure)	Year Sampled	Amount Detected	Range Low – High	Typical Source
Sodium (ppm)	2010	14.5	14.5 – 14.5	Naturally present in the environment

Initial Distribution System Evaluation

Substance (Unit of Measure)	Year Sampled	Amount Detected	Range Low-High	Typical Source
Haloacetic Acids (HAA) (ppb)	2009	23.9	ND-61	By-product of drinking water disinfection
TTHMs (Total Trihalomethanes)	2009	71.3	26-165	By-product of drinking water disinfection

* Turbidity is a measure of the cloudiness of water. We monitor it because it is a good indicator of the effectiveness of our filtration system. The turbidity rule requires that 95 percent or more of the monthly samples must be less than or equal to 0.3 NTU.

Franklin County Test Results 2010

Franklin County Public Utilities routinely monitors for contaminants in your drinking water according to Federal and State laws. This table shows the results for the period of January 1st to December 31st, 2010.

Contaminant	Violation Y/N	Level Detected	Unit of Measure	MCG/L	MCL	Likely Source of Contamination
Copper (Tested every 3 years)	N	Last tested 2008	mg/l	1.3	Al=1.3	Corrosion of household plumbing systems; Erosion of natural deposits; leaching from wood preservatives
Lead (Tested every 3 years)	N	Last tested 2008	mg/l	.015	Al=15	Corrosion of household plumbing systems; Erosion of natural deposits; leaching from wood preservatives
TTHM (Tested quarterly)	N	0.062	mg/l	.080	.080	By-product of drinking water chlorination
HAA	N	0.032	mg/l	0.60	.60	By-product of drinking water chlorination
Bacteria (Tested monthly)	Y					

During routine sampling in the month of September 2010, two samples indicated the presence of coliform bacteria. As required, Franklin County Public Utilities took repeat samples for each site and an additional 14 samples throughout the water system in addition to issuing a boil water advisory. The next day, after all follow up samples tested negative for the presence of any forms of bacteria, the boil water advisory was lifted. We feel the samples showing the presence of coliform bacteria were false positives due to operator error and have subsequently updated the County's sample collection procedures. We apologize for any inconveniences that this may have caused but please understand that the precautionary measures taken were put in place to protect the interest of all our customers.

Infants and young children are typically more vulnerable to lead in drinking water than the general population. It is possible that lead levels at your home may be higher than at other homes in the community as a result of materials used in your home's plumbing. If you are concerned about the elevated lead levels in your home's water, you may wish to have your water tested and flush your tap for thirty seconds to two minutes before using the water. Additional information is available from the Safe Drinking Water Hotline (1-800-246-4791).

We have learned through our monitoring and testing that some contaminants have been detected, however, the EPA has determined that your was IS SAFE at these levels.

All sources of drinking water are subject to potential contamination by substances that are naturally occurring or manmade. These substances can be microbes, inorganic or organic chemicals and radioactive 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 described for many regulated constituents, a person would have to drink two 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.

Nitrates- As a precaution, we always notify physicians and health care providers in the area if there is ever a higher than normal level of nitrates in the water supply.

Lead- Lead in drinking water is rarely the sole cause of lead poisoning, but it can add to a person's total lead exposure. All potential sources of lead in the household should be identified and removed, replaced or reduced.

Thank you for allowing us to continue providing your family with clean, quality water this year. In order to maintain a safe and dependable water supply, we sometimes need to make improvements that will benefit all our customers. The improvements are sometimes reflected as rate structure adjustments. Thank you for your understanding.

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 systems 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 guideline on appropriate means to lessen the risk of infection by cryptosporidium and other microbiological contaminants are available for the Safe Drinking Water Hotline (1-800-426-4791).

Franklin County Public Utilities employees work around the clock to provide top quality water to every tap we serve. We ask that all of our customers help us to protect our water sources, which are the heart of our community, our way of life, and our children's future.

Please feel free to give us a call at 919-556-6177, if you have any questions.

Bryce Mendenhall
Director
Franklin County Public Utilities

