

# **“2010” Annual Drinking Water Quality Report**

## **“Town of Yadkinville”**

PWS ID# “02-99-015”

We are pleased to present to you this year's Annual Drinking 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 <Shane Walker Water Treatment Plant ORC> at <(336) 463-2716>.... 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 Board Meetings. They are held at <Yadkinville Town Hall, 213 Van Buren St. Yadkinville, NC 27055 on the first Monday of the month, at 7:00 pm >.**

### **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).

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. [Name of Utility] 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>.

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 Yadkinville utilizes a conventional surface water treatment plant to supply water to its customers. Water is pumped from the South Deep Creek into the Town's off Stream Reservoir, then from there back to the Water Treatment Plant located at 2820 Highway 601 South, Yadkinville, NC 27055. At the present time, the water plant is permitted by the State of North Carolina to treat no more than 1.67 million gallons per day (MGD).**

**This reservoir will ensure that the Town of Yadkinville will have an adequate water supply during drought conditions. The reservoir will also ensure a clean water supply in the event that South Deep Creek were to be contaminated for any reason.**

### **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 Yadkinville Water System 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:

#### Susceptibility of Sources to Potential Contaminant Sources (PCSs)

Source Name	Susceptibility Rating	SWAP Report Date
South Deep Creek	Moderate	March 2005

The complete SWAP Assessment report for The Town of Yadkinville may be viewed on the Web at: <http://swap.deh.enr.state.nc.us/swap/>. 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. If you are unable to access your SWAP report on the web, you may mail a written request for a printed copy to: Source Water Assessment Program – Report Request, 1634 Mail Service Center, Raleigh, NC 27699-1634, or email requests 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.

### **Violations that Your Water System Received for the Report Year**

The Town of Yadkinville received a violation for Total Trihalomethanes in July 2010. The allowable limit is 0.080 mg/l. The Town’s results were 0.10 mg/l. This did not put the running annual average in violation. See Disinfectants and Disinfectant By-Products section. A better flushing program has been put into effect. We have started using automatic flushers to insure a better flushing period. The town washes, cleans, and disinfects both fresh water storage tanks once a year.

## 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 through December 31, 2010.** 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.

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.

### 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 (ug/L)* - 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 Picograms per liter (picograms/L)* - One part per quadrillion corresponds to one minute in 2,000,000,000 years or one penny in \$10,000,000,000,000.

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

*Million Fibers per Liter (MFL)* - 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 (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 (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 Disinfection 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 Contaminant Level (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 Contaminant Level Goal (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.

Extra Note: MCLs 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.

**Microbiological Contaminants**

Contaminant (units)	MCL Violation Y/N	Your Water	MCLG	MCL	Likely Source of Contamination
Total Coliform Bacteria (presence or absence)	N	0	0	one positive monthly sample	Naturally present in the environment
Fecal Coliform or E. coli (presence or absence)	N	0	0	0 (Note: The MCL is exceeded if a routine sample and repeat sample are total coliform positive, and one is also fecal coliform or E. coli positive)	Human and animal fecal waste

**Turbidity\* - Systems with population >10,000**

Contaminant (units)	MCL Violation Y/N	Your Water	MCLG	MCL	Likely Source of Contamination
Turbidity (NTU)	N	0.064	N/A	TT = 1 NTU	Soil runoff
		100%	95%	TT = percentage of samples ≤ 0.3 NTU	

\* Turbidity is a measure of the cloudiness of the water. We monitor it because it is 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.

**Inorganic Contaminants**

Contaminant (units)	Sample Date	MCL Violation Y/N	Your Water	Range		MCLG	MCL	Likely Source of Contamination
				Low	High			
Antimony (ppb)	4-8-10	N	Non detect			6	6	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder
Arsenic (ppb)	4-8-10	N	Non detect			0	10	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
Barium (ppm)	4-8-10	N	Non detect			2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Beryllium (ppb)	4-8-10	N	Non detect			4	4	Discharge from metal refineries and coal-burning factories; discharge from electrical, aerospace, and defense industries
Cadmium (ppb)	4-8-10	N	Non detect			5	5	Corrosion of galvanized pipes; erosion of natural deposits; discharge from metal refineries; runoff from waste batteries and paints
Chromium (ppb)	4-8-10	N	Non detect			100	100	Discharge from steel and pulp mills; erosion of natural deposits
Cyanide (ppb)	4-8-10	N	Non detect			200	200	Discharge from steel/metal factories; discharge from plastic and fertilizer factories
Fluoride (ppm)	4-8-10	N	0.94			4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Mercury (inorganic) (ppb)	4-8-10	N	Non detect			2	2	Erosion of natural deposits; discharge from refineries and factories; runoff from landfills; runoff from cropland
Selenium (ppb)	4-8-10	N	Non detect			50	50	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines
Thallium (ppb)	4-8-10	N	Non detect			0.5	2	Leaching from ore-processing sites; discharge from electronics, glass, and drug factories

### Nitrate/Nitrite Contaminants

Contaminants	Sample Date	MCL Violation Y/N	Your Water	MCL		
Nitrate	3-4-10	N	1.0	10.0mg/l		
Nitrite	3-4-10	N	ND	1.0mg/l		

### Synthetic Organic Chemical (SOC) Contaminants Including Pesticides and Herbicides “Test every 3 years”

Contaminant (units)	Sample Date	MCL Violation Y/N	Your Water	Range		MCLG	MCL	Likely Source of Contamination
				Low	High			
2,4-D (ppb)	10-7-10	N	Non detect			70	70	Runoff from herbicide used on row crops
2,4,5-TP (Silvex) (ppb)	10-7-10	N	Non detect			50	50	Residue of banned herbicide
Alachlor (ppb)	10-7-10	N	Non detect			0	2	Runoff from herbicide used on row crops
Atrazine (ppb)	10-7-10	N	Non detect			3	3	Runoff from herbicide used on row crops
Benzo(a)pyrene (PAH) (ppt)	10-7-10	N	Non detect			0	200	Leaching from linings of water storage tanks and distribution lines
Carbofuran (ppb)	10-7-10	N	Non detect			40	40	Leaching of soil fumigant used on rice and alfalfa
Chlordane (ppb)	10-7-10	N	Non detect			0	2	Residue of banned termiticide
Dalapon (ppb)	10-7-10	N	Non detect			200	200	Runoff from herbicide used on rights of way
Di(2-ethylhexyl) adipate (ppb)	10-7-10	N	Non detect			400	400	Discharge from chemical factories
Di(2-ethylhexyl) phthalate (ppb)	10-7-10	N	Non detect			0	6	Discharge from rubber and chemical factories
DBCP [Dibromochloropropane] (ppt)	10-7-10	N	Non detect			0	200	Runoff/leaching from soil fumigant used on soybeans, cotton, pineapples, and orchards
Dinoseb (ppb)	10-7-10	N	Non detect			7	7	Runoff from herbicide used on soybeans and vegetables
Endrin (ppb)	10-7-10	N	Non detect			2	2	Residue of banned insecticide
EDB [Ethylene dibromide] (ppt)	10-7-10	N	Non detect			0	50	Discharge from petroleum refineries
Heptachlor (ppt)	10-7-10	N	Non detect			0	400	Residue of banned pesticide
Heptachlor epoxide (ppt)	10-7-10	N	Non detect			0	200	Breakdown of heptachlor
Hexachlorobenzene (ppb)	10-7-10	N	Non detect			0	1	Discharge from metal refineries and agricultural chemical factories
Hexachlorocyclopentadiene (ppb)	10-7-10	N	Non detect			50	50	Discharge from chemical factories
Lindane (ppt)	10-7-10	N	Non detect			200	200	Runoff/leaching from insecticide used on cattle, lumber, gardens
Methoxychlor (ppb)	10-7-10	N	Non detect			40	40	Runoff/leaching from insecticide used on fruits, vegetables, alfalfa, livestock
Oxamyl [Vydate] (ppb)	10-7-10	N	Non detect			200	200	Runoff/leaching from insecticide used on apples, potatoes and tomatoes
PCBs [Polychlorinated biphenyls] (ppt)	10-7-10	N	Non detect			0	500	Runoff from landfills; discharge of waste chemicals
Pentachlorophenol (ppb)	10-7-10	N	Non detect			0	1	Discharge from wood preserving factories
Picloram (ppb)	10-7-10	N	Non detect			500	500	Herbicide runoff
Simazine (ppb)	10-7-10	N	Non detect			4	4	Herbicide runoff
Toxaphene (ppb)	10-7-10	N	Non detect			0	3	Runoff/leaching from insecticide used on cotton and cattle

### Unregulated SOC Contaminants Including Pesticides and Herbicides

Contaminant (units)	Sample Date	Your Water	Range	
			Low	High
Aldicard (ppb)	10-7-10	N		
Aldicard Sulfone (ppb)	10-7-10	N		
Aldicard Sulfoxide (ppb)	10-7-10	N		
Aldrin (ppb)	10-7-10	N		
Butachlor (ppb)	10-7-10	N		
Carbaryl (ppb)	10-7-10	N		
Dicamba (ppb)	10-7-10	N		
Dieldrin (ppb)	10-7-10	N		
3-Hydroxycarbofuran (ppb)	10-7-10	N		
Methomyl (ppb)	10-7-10	N		
Metolachlor (ppb)	10-7-10	N		
Metribuzin (ppb)	10-7-10	N		
Propachlor (ppb)	10-7-10	N		

### Volatile Organic Chemical (VOC) Contaminants

Contaminant (units)	Sample Date	MCL Violation Y/N	Your Water	Range		MCLG	MCL	Likely Source of Contamination
				Low	High			
Benzene (ppb)	4-8-10	N	Non detect			0	5	Discharge from factories; leaching from gas storage tanks and landfills
Carbon tetrachloride (ppb)	4-8-10	N	Non detect			0	5	Discharge from chemical plants and other industrial activities
Chlorobenzene (ppb)	4-8-10	N	Non detect			100	100	Discharge from chemical and agricultural chemical factories
o-Dichlorobenzene (ppb)	4-8-10	N	Non detect			600	600	Discharge from industrial chemical factories
p-Dichlorobenzene (ppb)	4-8-10	N	Non detect			75	75	Discharge from industrial chemical factories
1,2 – Dichloroethane (ppb)	4-8-10	N	Non detect			0	5	Discharge from industrial chemical factories
1,1 – Dichloroethylene (ppb)	4-8-10	N	Non detect			7	7	Discharge from industrial chemical factories
cis-1,2-Dichloroethylene (ppb)	4-8-10	N	Non detect			70	70	Discharge from industrial chemical factories
trans-1,2-Dichloroethylene (ppb)	4-8-10	N	Non detect			100	100	Discharge from industrial chemical factories
Dichloromethane (ppb)	4-8-10	N	Non detect			0	5	Discharge from pharmaceutical and chemical factories
1,2-Dichloropropane (ppb)	4-8-10	N	Non detect			0	5	Discharge from industrial chemical factories
Ethylbenzene (ppb)	4-8-10	N	Non detect			700	700	Discharge from petroleum refineries
Styrene (ppb)	4-8-10	N	Non detect			100	100	Discharge from rubber and plastic factories; leaching from landfills
Tetrachloroethylene (ppb)	4-8-10	N	Non detect			0	5	Discharge from factories and dry cleaners
1,2,4 – Trichlorobenzene (ppb)	4-8-10	N	Non detect			70	70	Discharge from textile-finishing factories
1,1,1 – Trichloroethane (ppb)	4-8-10	N	Non detect			200	200	Discharge from metal degreasing sites and other factories

1,1,2 –Trichloroethane (ppb)	4-8-10	N	Non detect		3	5	Discharge from industrial chemical factories
Trichloroethylene (ppb)	4-8-10	N	Non detect		0	5	Discharge from metal degreasing sites and other factories
Toluene (ppm)	4-8-10	N	Non detect		1	1	Discharge from petroleum factories
Vinyl Chloride (ppb)	4-8-10	N	Non detect		0	2	Leaching from PVC piping; discharge from plastics factories
Xylenes (Total) (ppm)	4-8-10	N	Non detect		10	10	Discharge from petroleum factories; discharge from chemical factories

### Unregulated VOC Contaminants

Contaminant (units)	Sample Date	Your Water	Range	
			Low	High
Chloroform (ppb)	4-8-10	Non Detect		
Bromodichloromethane (ppb)	4-8-10	Non Detect		
Bromoform (ppb)	4-8-10	Non Detect		
Chlorodibromomethane (ppb)	4-8-10	Non Detect		
Bromobenzene (ppb)	4-8-10	Non Detect		
Bromochloromethane (ppb)	4-8-10	Non Detect		
Bromomethane (ppb)	4-8-10	Non Detect		
n-Butylbenzene (ppb)	4-8-10	Non Detect		
sec-Butylbenzene (ppb)	4-8-10	Non Detect		
tert-Butylbenzene (ppb)	4-8-10	Non Detect		
Chloroethane (ppb)	4-8-10	Non Detect		
Chloromethane (ppb)	4-8-10	Non Detect		
o-Chlorotoluene (ppb)	4-8-10	Non Detect		
p-Chlorotoluene (ppb)	4-8-10	Non Detect		
Dibromomethane (ppb)	4-8-10	Non Detect		
m-Dichlorobenzene (ppb)	4-8-10	Non Detect		
Dichlorodifluoromethane (ppb)	4-8-10	Non Detect		
1,1-Dichloroethane (ppb)	4-8-10	Non Detect		
1,3-Dichloropropane (ppb)	4-8-10	Non Detect		
2,2-Dichloropropane (ppb)	4-8-10	Non Detect		
1,1-Dichloropropene (ppb)	4-8-10	Non Detect		
1,3-Dichloropropene (ppb)	4-8-10	Non Detect		
Fluorotrichloromethane (ppb)	4-8-10	Non Detect		
Hexachlorobutadiene (ppb)	4-8-10	Non Detect		
Isopropylbenzene (ppb)	4-8-10	Non Detect		
p-Isopropyltoluene (ppb)	4-8-10	Non Detect		
Naphthalene (ppb)	4-8-10	Non Detect		

n-Propylbenzene (ppb)	4-8-10	Non Detect	
1,1,1,2-Tetrachloroethane (ppb)	4-8-10	Non Detect	
1,1,2,2-Tetrachloroethane (ppb)	4-8-10	Non Detect	
1,2,3-Trichlorobenzene (ppb)	4-8-10	Non Detect	
1,2,3-Trichloropropane (ppb)	4-8-10	Non Detect	
1,2,4-Trimethylbenzene (ppb)	4-8-10	Non Detect	
1,3,5-Trimethylbenzene (ppb)	4-8-10	Non Detect	

### Asbestos Contaminant

Contaminant (units)	Sample Date	MCL Violation Y/N	Your Water	Range		MCLG	MCL	Likely Source of Contamination
				Low	High			
Total Asbestos (MFL)	6-5-08	N	Non Detect			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 <sup>th</sup> percentile)	7-12-10	.020	0	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead (ppb) (90 <sup>th</sup> percentile)	7-12-10	Non Detect	0	0	AL=15	Corrosion of household plumbing systems, erosion of natural deposits

### Radioactive Contaminants

Contaminant (units)	Sample Date	MCL Violation Y/N	Your Water	MCLG	MCL	Likely Source of Contamination
Alpha emitters (pCi/L)	6-5-08	N	0.80	0	15	Erosion of natural deposits
Beta/photon emitters (pCi/L)	6-5-08	N	Non Detect	0	50 *	Decay of natural and man-made deposits
Combined radium (pCi/L)	6-5-08	N	0.86	0	5	Erosion of natural deposits
Uranium (pCi/L)	6-5-08	N	Non Detect	0	20.1	Erosion of natural deposits

\* Note: The MCL for beta particles is 4 mrem/year. EPA considers 50 pCi/L to be the level of concern for beta particles.

Contaminant (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	1.33	0.91-1.75	N/A	TT	Naturally present in the environment	Step I



### Disinfectants and Disinfection Byproducts 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	0.0635	0.023-0.10	N/A	.08	By-product of drinking water chlorination
HAA5 (ppb) [Total Haloacetic Acids]	N	0.022	.010-0.033	N/A	.06	By-product of drinking water disinfection
Chlorine (ppm)	N	1.51	0.97-2.0	MRDLG = 4	MRDL = 4	Water additive used to control microbes

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	Range Low/High	Secondary MCL
Iron (ppm)	4-8-10	Non Detect	N/A	0.3
Manganese (ppm)	4-8-10	Non Detect	N/A	0.05
Nickel (ppm)	4-8-10	Non Detect	N/A	N/A
Sodium (ppm)	4-8-10	10.0	N/A	N/A
pH	4-8-10	7.2	N/A	6.5 to 8.5

### Cryptosporidium

*Our system is currently monitoring for Cryptosporidium and have not found any levels yet.*

*Cryptosporidium is a microbial parasite which is found in surface water throughout the U.S. Although Cryptosporidium can be removed by filtration, the most commonly used filtration methods cannot guarantee 100 percent removal. Our monitoring of our source water and/or finished water indicate the presence of these organisms. Current test methods do not enable us to determine if the organisms are dead or if they are capable of causing disease. Symptoms of infection include nausea, diarrhea, and abdominal cramps. Most healthy individuals are able to overcome the disease within a few weeks. However, immuno-compromised people have more difficulty and are at greater risk of developing severe, life-threatening illness. Immuno-compromised individuals are encouraged to consult their doctor regarding appropriate precautions to take to prevent infection. Cryptosporidium must be ingested for it to cause disease, and it may be spread through means other than drinking water.*

### Radon

*Our system monitored for Radon and found levels of < Non Detectable on 6-5-08 >.*

*Radon is a radioactive gas that you cannot see, taste, or smell. It is found throughout the United States. Radon comes from the natural (radioactive) breakdown of uranium in soil, rock, and water and gets into the air you breathe. Radon can move up through the ground and into a home through cracks and holes in the foundation. Radon can build up to high levels in all types of homes. Radon can also get into indoor air when released from tap water from showering, washing dishes, and other household activities. Compared to radon entering the home through soil, radon entering the home through tap water will in most cases be a small source of radon in indoor air. Radon is a known human carcinogen. Breathing air containing radon can lead to lung cancer. Drinking water containing radon may also cause increased risk of stomach cancer. If you are concerned about radon in your home, test the air in your home. Testing is inexpensive and easy. Fix your home if the level of radon in your air is 4 picocuries per liter of air (pCi/L) or higher. There are simple ways to fix a radon problem that aren't too costly. For additional information, call your State radon program or call EPA's Radon Hotline (800-SOS-RADON).*

# Consumer Confidence Report Certification Form

Water System Name: Town of Yadkinville

PWS ID#: 0 2 - 9 9 - 0 1 5 Report Year: 2010 Population Served: 5001

The community water system (CWS) named above hereby confirms that all provisions under 40 CFR parts 141 and 142 requiring the development of, distribution of, and notification of a consumer confidence report have been executed. Further, the CWS certifies the information contained in the report is correct and consistent with the compliance monitoring data previously submitted to the primacy agency by their NC certified laboratory.

Certified by: Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_

Phone #: \_\_\_\_\_ Date: \_\_\_\_\_

Check methods used and complete:

\_\_\_ Systems serving 100,000 or more persons must post the CCR on a publicly-accessible Internet site which is www. \_\_\_\_\_

\_\_\_ Systems serving 10,000 or more persons must distribute the CCR by mail or direct delivery.  
Date Delivered: \_\_\_\_\_ and specify direct delivery methods: \_\_\_\_\_

\_\_\_ Systems serving less than 10,000 persons but more than 500 persons must either distribute the CCR by mail or direct delivery. Date Delivered: \_\_\_\_\_ and specify direct delivery method: \_\_\_\_\_

**OR** (mailing waiver option of the CCR itself) (*Voided if using CCR for Tier III Public Notification!*)

\_\_\_ notify by "direct means" that the CCR is not being mailed, but it will be published in what newspaper(s) and when (attach copy of notice)  
Date Delivered: \_\_\_\_\_ and specify "direct means" of delivery of the notice: \_\_\_\_\_

\_\_\_ and the complete CCR was printed in the local newspaper(s)

\_\_\_ and a copy of the CCR was made available upon request

\_\_\_ Systems serving 500 or fewer persons must either distribute the CCR by mail or direct delivery.  
Date Delivered: \_\_\_\_\_ and specify direct delivery methods: \_\_\_\_\_

**OR** (mailing waiver option of the CCR itself) (*Voided if using CCR for Tier III Public Notification!*)

\_\_\_ notify by "direct means" that the CCR is not being mailed, but how a copy may be obtained (attach copy of notice)  
Date Delivered: \_\_\_\_\_ and specify "direct means" of delivery of the notice: \_\_\_\_\_

\_\_\_ and a copy of the CCR was made available upon request

\_\_\_ "Good faith" efforts (in addition to the above required methods) were used to reach non-bill paying consumers such as industry employees, apartment tenants, etc. Those extra efforts included the following methods:

\_\_\_ posting the CCR on the Internet at www. \_\_\_\_\_

\_\_\_ mailing the CCR to postal patrons within the service area

\_\_\_ advertising the availability of the CCR in news media (attach copy of announcement)

\_\_\_ publication of the CCR in local newspaper (attach copy)

\_\_\_ posting the CCR in public places such as:(attach list if needed) \_\_\_\_\_

\_\_\_ delivery of multiple copies to single bill addresses serving several persons such as: apartments, businesses, and large private employers

\_\_\_ delivery to community organizations such as: (attach list if needed) \_\_\_\_\_

Note: For the mailing waiver option, the Direct Means allowed are a letter, a bill stuffer, a door hanger, or a postcard dedicated to the CCR. The notice may not be on the water bill itself as the only means of notify

4/2008