

“2008” 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 meetings. They are held at Yadkinville Town Hall, 213 Van Buren Street, Yadkinville, N.C. 27055 on the first Monday of the month, at 7:00 p.m.**

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. The Town of Yadkinville 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 South Deep Creek into the Town's Water Treatment Plant located at 2820 Highway 601 South, Yadkinville, N.C. 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).

In order to treat more than the permitted 1.67 MGD, the state of North Carolina has mandated that the town construct an off-stream reservoir. 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.

The reservoir is currently under construction and forecasted to be completed Fall 2009.

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 Town of Yadkinville 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	Inherent Vulnerability Rating	Contaminant Rating	Susceptibility Rating	SWAP Report Date
South Deep Creek	Higher	Lower	Moderate	March 30, 2009
Emergency Well #1	Higher	Lower	Moderate	March 30, 2009

The complete SWAP Assessment report for 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 did not receive any violations during the year of 2008.

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, (year).** 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 <i>E. coli</i> positive)	Human and animal fecal waste

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	5% of monthly samples are positive	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 <i>E. coli</i> 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	0.27	N/A	TT = 1 NTU	Soil runoff
		100%	95%	TT = percentage of samples \leq 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)	4-3-08	N	Non-detect			6	6	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder
Arsenic (ppb)	4-3-08	N	Non-detect			0	10	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
Barium (ppm)	4-3-08	N	Non-detect			2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Beryllium (ppb)	4-3-08	N	Non-detect			4	4	Discharge from metal refineries and coal-burning factories; discharge from electrical, aerospace, and defense industries
Cadmium (ppb)	4-3-08	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)	4-3-08	N	Non-detect			100	100	Discharge from steel and pulp mills; erosion of natural deposits
Cyanide (ppb)	4-3-08	N	Non-detect			200	200	Discharge from steel/metal factories; discharge from plastic and fertilizer factories
Fluoride (ppm)	4-3-08	N	0.455	0.27	1.16	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Mercury (inorganic) (ppb)	4-3-08	N	Non-detect			2	2	Erosion of natural deposits; discharge from refineries and factories; runoff from landfills; runoff from cropland
Selenium (ppb)	4-3-08	N	Non-detect			50	50	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines
Thallium (ppb)	4-3-08	N	Non-detect			0.5	2	Leaching from ore-processing sites; discharge from electronics, glass, and drug factories

While your drinking water meets EPA's standard for arsenic, it does contain low levels of arsenic. EPA's standard balances the current understanding of arsenic's possible health effects against the costs of removing arsenic from drinking water. EPA continues to research the health effects of low levels of arsenic, which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems.

Nitrate/Nitrite Contaminants

Contaminant (units)	MCL Violation Y/N	Your Water	Range		MCLG	MCL	Likely Source of Contamination
			Low	High			
Nitrate (as Nitrogen) (ppm)	N	Non-detect		N/A	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Nitrite (as Nitrogen) (ppm)	N	Non-detect		N/A	1	1	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits

Nitrate in drinking water at levels above 10 ppm is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. If you are caring for an infant you should ask advice from your health care provider.

Unregulated Inorganic Contaminants

Contaminant (units)	Sample Date	Your Water	Range		Secondary MCL
			Low	High	
Sulfate (ppm)	4-3-08	Non-detect			250

Synthetic Organic Chemical (SOC) Contaminants Including Pesticides and Herbicides

Contaminant (units)	Sample Date	MCL Violation Y/N	Your Water	Range		MCLG	MCL	Likely Source of Contamination
				Low	High			
2,4-D (ppb)	9-10-07	N	Non-detect			70	70	Runoff from herbicide used on row crops
2,4,5-TP (Silvex) (ppb)	9-10-07	N	Non-detect			50	50	Residue of banned herbicide
Alachlor (ppb)	9-10-07	N	Non-detect			0	2	Runoff from herbicide used on row crops
Atrazine (ppb)	9-10-07	N	Non-detect			3	3	Runoff from herbicide used on row crops
Benzo(a)pyrene (PAH) (ppt)	9-10-07	N	Non-detect			0	200	Leaching from linings of water storage tanks and distribution lines
Carbofuran (ppb)	9-10-07	N	Non-detect			40	40	Leaching of soil fumigant used on rice and alfalfa
Chlordane (ppb)	9-10-07	N	Non-detect			0	2	Residue of banned termiticide
Dalapon (ppb)	9-10-07	N	Non-detect			200	200	Runoff from herbicide used on rights of way
Di(2-ethylhexyl) adipate (ppb)	9-10-07	N	Non-detect			400	400	Discharge from chemical factories
Di(2-ethylhexyl) phthalate (ppb)	9-10-07	N	Non-detect			0	6	Discharge from rubber and chemical factories
DBCP [Dibromochloropropane] (ppt)	9-10-07	N	Non-detect			0	200	Runoff/leaching from soil fumigant used on soybeans, cotton, pineapples, and orchards
Dinoseb (ppb)	9-10-07	N	Non-detect			7	7	Runoff from herbicide used on soybeans and vegetables
Endrin (ppb)	9-10-07	N	Non-detect			2	2	Residue of banned insecticide
EDB [Ethylene dibromide] (ppt)	9-10-07	N	Non-detect			0	50	Discharge from petroleum refineries
Heptachlor (ppt)	9-10-07	N	Non-detect			0	400	Residue of banned pesticide
Heptachlor epoxide (ppt)	9-10-07	N	Non-detect			0	200	Breakdown of heptachlor
Hexachlorobenzene (ppb)	9-10-07	N	Non-detect			0	1	Discharge from metal refineries and agricultural chemical factories
Hexachlorocyclopentadiene (ppb)	9-10-07	N	Non-detect			50	50	Discharge from chemical factories
Lindane (ppt)	9-10-07	N	Non-detect			200	200	Runoff/leaching from insecticide used on cattle, lumber, gardens
Methoxychlor (ppb)	9-10-07	N	Non-detect			40	40	Runoff/leaching from insecticide used on fruits, vegetables, alfalfa, livestock
Oxamyl [Vydate] (ppb)	9-10-07	N	Non-detect			200	200	Runoff/leaching from insecticide used on apples, potatoes and tomatoes
PCBs [Polychlorinated biphenyls] (ppt)	9-10-07	N	Non-detect			0	500	Runoff from landfills; discharge of waste chemicals
Pentachlorophenol (ppb)	9-10-07	N	Non-detect			0	1	Discharge from wood preserving factories
Picloram (ppb)	9-10-07	N	Non-detect			500	500	Herbicide runoff
Simazine (ppb)	9-10-07	N	Non-detect			4	4	Herbicide runoff
Toxaphene (ppb)	9-10-07	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)	9-10-07	Non-detect		
Aldicard Sulfone (ppb)	9-10-07	Non-detect		
Aldicard Sulfoxide (ppb)	9-10-07	Non-detect		
Aldrin (ppb)	9-10-07	Non-detect		
Butachlor (ppb)	9-10-07	Non-detect		
Carbaryl (ppb)	9-10-07	Non-detect		
Dicamba (ppb)	9-10-07	Non-detect		
Dieldrin (ppb)	9-10-07	Non-detect		
3-Hydroxycarbofuran (ppb)	9-10-07	Non-detect		
Methomyl (ppb)	9-10-07	Non-detect		
Metolachlor (ppb)	9-10-07	Non-detect		
Metribuzin (ppb)	9-10-07	Non-detect		
Propachlor (ppb)	9-10-07	Non-detect		

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)	4-3-08	N	Non-detect			0	5	Discharge from factories; leaching from gas storage tanks and landfills
Carbon tetrachloride (ppb)	4-3-08	N	Non-detect			0	5	Discharge from chemical plants and other industrial activities
Chlorobenzene (ppb)	4-3-08	N	Non-detect			100	100	Discharge from chemical and agricultural chemical factories
o-Dichlorobenzene (ppb)	4-3-08	N	Non-detect			600	600	Discharge from industrial chemical factories
p-Dichlorobenzene (ppb)	4-3-08	N	Non-detect			75	75	Discharge from industrial chemical factories
1,2 – Dichloroethane (ppb)	4-3-08	N	Non-detect			0	5	Discharge from industrial chemical factories
1,1 – Dichloroethylene (ppb)	4-3-08	N	Non-detect			7	7	Discharge from industrial chemical factories
cis-1,2-Dichloroethylene (ppb)	4-3-08	N	Non-detect			70	70	Discharge from industrial chemical factories
trans-1,2-Dichloroethylene (ppb)	4-3-08	N	Non-detect			100	100	Discharge from industrial chemical factories
Dichloromethane (ppb)	4-3-08	N	Non-detect			0	5	Discharge from pharmaceutical and chemical factories
1,2-Dichloropropane (ppb)	4-3-08	N	Non-detect			0	5	Discharge from industrial chemical factories
Ethylbenzene (ppb)	4-3-08	N	Non-detect			700	700	Discharge from petroleum refineries
Styrene (ppb)	4-3-08	N	Non-detect			100	100	Discharge from rubber and plastic factories; leaching from landfills
Tetrachloroethylene (ppb)	4-3-08	N	Non-detect			0	5	Discharge from factories and dry cleaners
1,2,4 –Trichlorobenzene (ppb)	4-3-08	N	Non-detect			70	70	Discharge from textile-finishing factories
1,1,1 – Trichloroethane (ppb)	4-3-08	N	Non-detect			200	200	Discharge from metal degreasing sites and other factories

1,1,2 –Trichloroethane (ppb)	4-3-08	N	Non-detect		3	5	Discharge from industrial chemical factories
Trichloroethylene (ppb)	4-3-08	N	Non-detect		0	5	Discharge from metal degreasing sites and other factories
Toluene (ppm)	4-3-08	N	Non-detect		1	1	Discharge from petroleum factories
Vinyl Chloride (ppb)	4-3-08	N	Non-detect		0	2	Leaching from PVC piping; discharge from plastics factories
Xylenes (Total) (ppm)	4-3-08	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)	4-3-08	Non-detect		
Bromodichloromethane (ppb)	4-3-08	Non-detect		
Bromoform (ppb)	4-3-08	Non-detect		
Chlorodibromomethane (ppb)	4-3-08	Non-detect		
Bromobenzene (ppb)	4-3-08	Non-detect		
Bromochloromethane (ppb)	4-3-08	Non-detect		
Bromomethane (ppb)	4-3-08	Non-detect		
n-Butylbenzene (ppb)	4-3-08	Non-detect		
sec-Butylbenzene (ppb)	4-3-08	Non-detect		
tert-Butylbenzene (ppb)	4-3-08	Non-detect		
Chloroethane (ppb)	4-3-08	Non-detect		
Chloromethane (ppb)	4-3-08	Non-detect		
o-Chlorotoluene (ppb)	4-3-08	Non-detect		
p-Chlorotoluene (ppb)	4-3-08	Non-detect		
Dibromomethane (ppb)	4-3-08	Non-detect		
m-Dichlorobenzene (ppb)	4-3-08	Non-detect		
Dichlorodifluoromethane (ppb)	4-3-08	Non-detect		
1,1-Dichloroethane (ppb)	4-3-08	Non-detect		
1,3-Dichloropropane (ppb)	4-3-08	Non-detect		
2,2-Dichloropropane (ppb)	4-3-08	Non-detect		
1,1-Dichloropropene (ppb)	4-3-08	Non-detect		
1,3-Dichloropropene (ppb)	4-3-08	Non-detect		
Fluorotrichloromethane (ppb)	4-3-08	Non-detect		
Hexachlorobutadiene (ppb)	4-3-08	Non-detect		
Isopropylbenzene (ppb)	4-3-08	Non-detect		
p-Isopropyltoluene (ppb)	4-3-08	Non-detect		
Naphthalene (ppb)	4-3-08	Non-detect		

n-Propylbenzene (ppb)	4-3-08	Non-detect	
1,1,1,2-Tetrachloroethane (ppb)	4-3-08	Non-detect	
1,1,2,2-Tetrachloroethane (ppb)	4-3-08	Non-detect	
1,2,3-Trichlorobenzene (ppb)	4-3-08	Non-detect	
1,2,3-Trichloropropane (ppb)	4-3-08	Non-detect	
1,2,4-Trimethylbenzene (ppb)	4-3-08	Non-detect	
1,3,5-Trimethylbenzene (ppb)	4-3-08	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 th percentile)	7-8-08	Non-detect	0	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead (ppb) (90 th percentile)	7-8-08	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	1.27	0.91 - 1.50	N/A	TT	Naturally present in the environment	

Disinfectants and Disinfection Byproducts Contaminants

Contaminant (units)	MCL/MRDL Violation Y/N	Your Water (AVG)	Range		MCLG	MCL	Likely Source of Contamination
			Low	High			
*TTHM (ppb) [Total Trihalomethanes]	N	0.0575	0.038	0.091	N/A	80	By-product of drinking water chlorination
*HAA5 (ppb) [Total Haloacetic Acids]	N	0.02425	.012	0.043	N/A	60	By-product of drinking water disinfection
Chlorine (ppm)	N	0.85	0.30	1.53	MRDLG = 4	MRDL = 4	Water additive used to control microbes

*TTHM's and HAA5's are based on an "Running Annual Average".

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	Range Low/High	Secondary MCL
Iron (ppm)	4-3-08	Non-detect	N/A	0.3
Manganese (ppm)	4-3-08	0.010	N/A	0.05
Nickel (ppm)	4-3-08	Non-detect	N/A	N/A
Sodium (ppm)	4-3-08	10.6	N/A	N/A
pH	4-3-08	7.51	N/A	6.5 to 8.5

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: 2008 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 notification.