



CITY OF UNION



2006 CONSUMER CONFIDENCE REPORT

Water Quality Results

System ID # 4410001

The sampling data shows that the water provided to *City of Union* customers met the Safe Drinking Water Act regulation.

A total of 84 **regulated** health effect contaminants, including pesticides and metals, were analyzed in our source water. Critical contaminants are analyzed on a **frequent basis**. Seventy-five (75) regulated contaminants were **not** detected through analyses. The nine (9) contaminants (including unregulated contaminants) that were detected during the sampling period of 2006 are listed below.

Regulated Substances Detected in Finished Drinking Water

Substance	MCL	MCLG	Range	HDL	VIOLATION	Source	Yr. Of Analysis
Chlorine	4 ppm	4 ppm	0.93 – 1.47 ppm	1.26 ppm (RAA)	NO	Disinfection	2006
Fluoride*	2 ppm	4 ppm	N/A	0.91 ppm	NO	Erosion of natural deposits; water additive which promotes strong teeth	2006
Haloacetic Acids (HAAs)**	60.0 ppb	N/A	9.6- 57.2 ppb	27.0 ppb (RAA)	NO	Byproduct of chlorination	2006
Nitrate	10 ppm	10 ppm	N/A	0.460 ppm	NO	Runoff from fertilizer use; leaching from septic tanks, sewage, erosion of natural deposits	2006
Total Organic Carbon***	TT	N/A	36.0% - 51.8% (Removal)	41.3 % (Level Found)***	NO	Naturally present in the environment	2006
Turbidity	TT	N/A	N/A	0.08 ntu 100 % ****	NO	Soil Runoff	2006
Total Trihalomethane (TTHM)	80 ppb	N/A	12.6-78.8 ppb	30.0 ppb (RAA)	NO	Byproduct of chlorination	2006

* EPA's MCL for fluoride is 4 ppm; however, our state has set a lower MCL to better protect human health.

** Quarterly sampling results for multiple sampling sites

***35% removal required. 100% of all samples met Total Organic Carbon requirements. Samples are taken monthly.

****100 % of all samples met turbidity requirements

Lead and Copper Compliance

Substance	MCL	MCLG	90 th Percentile	Source	Year Of Analysis
LEAD	15 ppb	0	2.1 ppb*	Corrosion of home piping	2004
COPPER	1.3 ppm	1.3 ppm	0.0470 ppm*	Corrosion of home piping	2004



* **NO** site tested exceeded the action level for copper. * **NO** site tested exceeded the action level for lead.

The abbreviations used above are defined as:

Action Level = The concentration of a contaminant that triggers treatment or other requirements that a water system must follow.

Action Levels are reported at the 90th percentile to homes at greatest risk.

HDL = Highest Detected Level

MCL = Maximum Contaminant Level – The highest level of the contaminant that is allowed by the current regulations

MCLG = Maximum Contaminant Level Goal – The level of a contaminant in drinking water below which there is no known or expected health risk

N/A = Not applicable or data not available

N/D = Not detected

NTU = Nephelometric Turbidity Units: a measure of the clarity of water. An excess of 5 NTU is just noticeable to the average person.

PCS = Potential Contaminant Source

pCi/L = Picocuries per liter is a measure of the radioactivity in water

ppb = parts per billion (Corresponds to 1 minute in 2,000 years, or a single penny in \$10,000,000).

ppm = parts per million (Corresponds to 1 minute in 2 years, or a single penny in \$10,000)

RAA = Running Annual Average

TT = Treatment Technique – a required process intended to reduce the level of a contaminant in drinking water

What if I have questions about my water or this report?

If you would like more information about your water quality, the water treatment process, or information in this report, please contact *Arnold Franklin* at 864-429-1707.



Information about Drinking Water Quality

1. All sources of drinking water are subject to potential contamination by substances that are naturally occurring or man made. These substances can be microbes, inorganics or organic chemicals and radioactive substances. All drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants **does not** necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's (EPAs) Safe Drinking Water Hotline at 1-800-426-4791.
2. 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/Centers for Disease Control guidelines on appropriate means to lessen the risk of infection by cryptosporidium are available from the Safe Drinking Water Hotline at 1-800-426-4791.
3. 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 stormwater 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 stormwater 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 stormwater runoff and septic systems.
 - Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities.

What is the source of my water?

The raw water source for the *City of Union* is the Broad River.

We encourage you to do your part to protect this precious water supply.

How is my water treated?

The City uses the Environmental Protection Agency and SCDHEC approved methodologies for making sure your water meets all health requirements. The water is chemically treated to remove solids and other harmful contaminants and to kill disease-producing organisms. The water is then filtered to further enhance the clarity and to remove small particles and microbials such as giardia and cryptosporidium. Additional chemicals are added to stabilize the water and inhibit corrosion in the pipeline distribution systems.

This Water Quality Report is for the calendar year 2006. The information in this report was assembled from various sources such as (1) our own laboratory data, (2) commercial laboratory results and (3) the South Carolina Department of Health and Environmental Control (SCDHEC) laboratory results.

What did the City of Union do to improve your system in 2006?

The Source Water Assessment Plan is available for your review on the internet www.scdhec.net/water/html/srcwtr.html.

If you don't have internet access, call the City of Union Water Plant @ 864-429-1707 for a copy for your review.

Flushed and tested fire hydrants on the City's distribution system.

Replaced chlorine disinfection system with Sodium Hypochlorite System at the Water Plant.

Several water lines were replaced within the distribution system.

The City of Union along with SC DHEC tests the water for a wide range of contaminants constantly, to ensure that you and your family have plenty of clean, safe drinking water. We will continue to provide these safeguards now – and in the future.

Sincerely,



Mayor E. Bruce Morgan

The *Union City Council* meets the third Tuesday of each month @ 6:30 p.m. Public comments are welcome.