

***Annual Drinking Water Quality Report for 2008***  
***Village of Cuba***  
***17 East Main St. Cuba, New York 14727***  
***(Public Water Supply ID#0200317)***

## **INTRODUCTION**

To comply with State regulations, Village of Cuba, will be annually issuing a report describing the quality of your drinking water. The purpose of this report is to raise your understanding of drinking water and awareness of the need to protect our drinking water sources. Last year, your tap water met all State drinking water health standards. We are proud to report that our system did not violate a maximum contaminant level or any other water quality standard. This report provides an overview of last year's water quality. Included are details about where your water comes from, what it contains, and how it compares to State standards.

If you have any questions about this report or concerning your drinking water, please contact Rick Hall, Superintendent of Public Works/Chief Water Operator, (585)968-2487. We want you to be informed about your drinking water. If you want to learn more, please attend any of our regularly scheduled village board meetings. The meetings are held on the second Monday of every month at the Village Board Room located in the Village Hall at 17 East Main Street beginning at 7 p.m...

## **WHERE DOES OUR WATER COME FROM?**

In general, 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 activities. Contaminants that may be present in source water include: microbial contaminants; inorganic contaminants; pesticides and herbicides; organic chemical contaminants; and radioactive contaminants. In order to ensure that tap water is safe to drink, the State and the EPA prescribe regulations which limit the amount of certain contaminants in water provided by public water systems. The State Health Department's and the FDA's regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Our water system serves approximately 1,800 people through a little more than 800 connections. Our water source is groundwater drawn from two 70-foot deep drilled wells which are located at the end of Champlain Street and in Chamberlain Park. The water is pretreated with 12.5% Sodium Hypochlorite prior to distribution. Strict regimens of chlorine residual samples are taken daily to insure proper disinfection.

The New York State Department of Health has completed a Source Water Assessment for this system, based on available information. Possible and actual threats to the source of drinking water for this system were evaluated. The Source Water Assessment includes a susceptibility rating based on the risk posed by each potential source of contamination and how easily contaminants can move through the subsurface to the wells. The susceptibility rating is an estimate of the potential for contamination of the source water, it does not mean that the water delivered to consumers is, or will become contaminated. Please refer to the section in this Annual Water Quality Report (AWQR) entitled "**Are There Contaminants In Our Drinking Water?**" for a list of the contaminants for which the water

has been tested and the test results. The source water assessments provide managers with additional information for protecting source waters into the future.

The water for this system comes from two (2) drilled wells. The Source Water Assessment has rated the wells as having high susceptibility to contamination from nitrates, petroleum products, pesticides, industrial solvents and other industrial contaminants. These rating are due primarily to the close proximity of the wells to a federally regulated Toxic Release Inventory (TRI) facility (Deming Electroplating Corporation). The fact that the wells draw water from an unconfined aquifer also contributes to the susceptibility ratings.

Please note that while the Source Water Assessment rated the two wells as having high susceptibility to bacteria, the water is disinfected before it is delivered to your home to ensure the finished water meets New York State drinking water standards for bacterial contamination.

A copy of the Source Water Assessment, including a map of the assessment area, can be obtained by calling (585) 968-2487.

### ARE THERE CONTAMINANTS IN OUR DRINKING WATER?

As the State regulations require, we routinely test your drinking water for numerous contaminants. These contaminants may include: total coliform, turbidity, inorganic compounds, nitrate, nitrite, lead and copper, volatile organic compounds, total trihalomethanes, haloacetic acids, radiological and synthetic organic compounds. The table presented below depicts which compounds were detected in your drinking water. The State allows us to test for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of our data, though representative, are more than one year old.

It should be noted that all drinking water, including bottled drinking water, may be reasonably 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 EPA's Safe Drinking Water Hotline (800-426-4791) or the Allegany County Health Department at (585)268-9250.

Table of Detected Contaminants							
Contaminant	Violation Yes/No	Date of Sample	Level Detected (Avg/Max) (Range)	Unit Measure -ment	MCLG	Regulatory Limit (MCL, TT or AL)	Likely Source of Contamination
<i>Microbiological Contaminants:</i>							
<b>Total Coliform &amp; Escherichia Coliform</b>	<b>None Detected</b>	<b>Twice Monthly</b>	<b>0</b>	<b>MG/L</b>	<b>0</b>	<b>0</b>	<b><u>Sample Location</u> Champlain Well Bi-Cenn. Well</b>
<i>Inorganic Contaminants:</i>							
Nitrate	NO	Dec. 2007	0.89	MG/L	10	10	<b><u>Sample Location</u> Champlain Well</b>
Nitrate	NO	Dec. 2007	1	MG/L	10	10	<b><u>Sample Location</u> Bi-Centennial well</b>
<i>Radiological Contaminants:</i>							
<b>Radium 228</b>	<b>NO</b>	<b>Quarterly (Co-mingled)</b>	<b>0.505</b>	<b>pCi/L</b>		<b>1.0</b>	<b><u>Sample Location</u> Champlain Well</b>



Radium 228	NO	Quarterly (Co-mingled)	0.0322	pCi/L	1.0	<u>Sample Location</u> Bi-Centennial Well
------------	----	---------------------------	--------	-------	-----	--

Volatile Contaminants:

<u>Trihalomethanes</u>					<u>Sample Location</u>
					Cuba/Rushford
Bromodichloromethanes			<0.5	ug/l	Middle High School
Bromoform			<0.5	ug/l	
Chloroform			<0.5	ug/l	
Dibromochloromethane			<0.5	ug/l	
Total Trihalomethane Concentration			<0.5	ug/l	

<u>Haloacetic Acids</u>					<u>Sample Location</u>
					Cuba/Rushford
					Middle High School
Dibromoacetic Acid			<1	ug/l	
Dichloroacetic Acid			<1	ug/l	
Monobromoacetic Acid			<1	ug/l	
Monochloroacetic Acid			<2	ug/l	
Trichloroacetic			<1	ug/l	
Total Haloacetic Acid Concentration			<2	ug/l	

NOTE: Nitrate was not sampled in 2008 but will be sampled in 2009.

**Definitions:**

**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.

**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.

**Maximum Residual Disinfectant 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 Residual Disinfectant 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 contamination.

**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 required process intended to reduce the level of a contaminant in drinking water.

**Non-Detects (ND):** Laboratory analysis indicates that the constituent is not present.

**Milligrams per liter (mg/l):** Corresponds to one part of liquid in one million parts of liquid (parts per million - ppm).

**Micrograms per liter (ug/l):** Corresponds to one part of liquid in one billion parts of liquid (parts per billion - ppb).

**Nanograms per liter (ng/l):** Corresponds to one part of liquid to one trillion parts of liquid (parts per trillion - ppt).

**Picograms per liter (pg/l):** Corresponds to one part per of liquid to one quadrillion parts of liquid (parts per quadrillion – ppq).

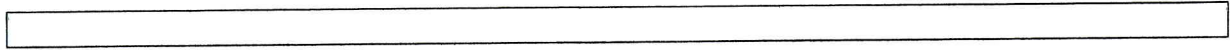
**Picocuries per liter (pCi/L):** A measure of the radioactivity in water.

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

**Million Fibers per Liter (MFL):** A measure of the presence of asbestos fibers that are longer than 10 micrometers.

## **WHAT DOES THIS INFORMATION MEAN?**

As you can see by the table, our system had no violations. We have learned through our testing that some contaminants have been detected; however, these contaminants were detected below the level allowed by the State.



## **IS OUR WATER SYSTEM MEETING OTHER RULES THAT GOVERN OPERATIONS?**

We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not your drinking water meets health standards. During 2008, we “did not test” for (Nitrate(s)), and therefore will be conducting this test in 2009.

## **DO I NEED TO TAKE SPECIAL PRECAUTIONS?**

Although our drinking water met or exceeded state and federal regulations, some people may be more vulnerable to disease causing microorganisms or pathogens 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 from their health care provider about their drinking water. EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium, Giardia and other microbial pathogens are available from the Safe Drinking Water Hotline (800-426-4791).

## **WHY SAVE WATER AND HOW TO AVOID WASTING IT?**

Although our system has an adequate amount of water to meet present and future demands, there are a number of reasons why it is important to conserve water:

- ◆ Saving water saves energy and some of the costs associated with both of these necessities of life;
- ◆ Saving water reduces the cost of energy required to pump water and the need to construct costly new wells, pumping systems and water towers; and
- ◆ Saving water lessens the strain on the water system during a dry spell or drought, helping to avoid severe water use restrictions so that essential fire fighting needs are met.

You can play a role in conserving water by becoming conscious of the amount of water your household is using, and by looking for ways to use less whenever you can. It is not hard to conserve water. Conservation tips include:

- ◆ Automatic dishwashers use 15 gallons for every cycle, regardless of how many dishes are loaded. So get a run for your money and load it to capacity.
- ◆ Turn off the tap when brushing your teeth.
- ◆ Check every faucet in your home for leaks. Just a slow drip can waste 15 to 20 gallons a day. Fix it and you can save almost 6,000 gallons per year.

- ◆ Check your toilets for leaks by putting a few drops of food coloring in the tank, watch for a few minutes to see if the color shows up in the bowl. It is not uncommon to lose up to 100 gallons a day from one of these otherwise invisible toilet leaks. Fix it and you save more than 30,000 gallons a year.

## **CLOSING**

Thank you for allowing us to continue to provide your family with quality drinking water this year. In order to maintain a safe and dependable water supply we sometimes need to make improvements that will benefit all of our customers. The costs of these improvements may be reflected in the rate structure. Rate adjustments may be necessary in order to address these improvements. We ask that all our customers help us protect our water sources, which are the heart of our community. Please call our office if you have questions.