

***Annual Drinking Water Quality Report for 2014
Village of Brocton
34 West Main Street
Brocton, NY 14716
Phone (716)792-4169
(Public Water Supply ID# NY0600353)***

INTRODUCTION

To comply with State regulations the Village of Brocton 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, we conducted tests for over 50 contaminants. We did detect some of those contaminants but all except one were below either the Action Level or Maximum Contaminant Level. The one contaminant detected above the Maximum Contaminant Level was Coliform bacteria from a sample collected on 12/2/14. Five additional samples were subsequently collected and NO Coliform bacteria were detected in any of the repeat samples. It should be noted that NO E. coli, associated with human and animal waste, was detected in any of the samples collected. The probable source of the Coliform bacteria on 12/2/14 was likely from a contaminated faucet or sample bottle.

Our water system also experienced an emergency on 2/12/14 when a major leak occurred in a 12 inch water main between the treatment plant and the village. After locating the leak the village water operators were unable to isolate it to make repairs, so water service to the entire Village had to be shut off in order to fix it. Subsequently, the leak was fixed by the end of the day on 2/12/14. The village was placed on a boil water order by the Health Department until two consecutive rounds of water samples were found to be satisfactory for human consumption. The Boil water order was lifted on 2/14/14.

This report provides an overview of all 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 Greg Borst, Chief Operator, at 792-9933. James Horlacher and E. Mark Snyder are also licensed operators that assist with the operation of the plant. 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 first and third Wednesdays of each month, @ 7:00pm at the Village Hall. The phone number of the Village Clerk's Office is 792-4169.

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 2000 people through 705 residential, and 18 commercial service connections and bulk sale connections with the Town of Portland and the Department of Corrections. Our water source is a surface water reservoir whose main source of water is Slippery Rock Creek. We produce an average of 300,000 gallons of water each day. The water is filtered to remove sediment and other contaminants, and then disinfected prior to distribution for added safety.

The New York State Department of Health has evaluated this water supplies susceptibility to contamination under the Source Water Assessment Program (SWAP). Their findings are summarized in the paragraph below. It is important to stress that these assessments were created using available information and only estimate the

potential for source water contamination. It does not indicate that any contamination has or will occur. This water supply provides treatment and regular monitoring to ensure that the water that is delivered to consumers meets all applicable standards. This assessment found an elevated susceptibility to contamination for both the Burr and Slippery Rock Reservoirs. The amount of pasture in the assessment area results in a high potential for protozoa contamination. There is also a high density of sanitary wastewater discharges in the Slippery Rock watershed, which results in elevated susceptibility for nearly all contaminant categories. However, the total amount of wastewater discharged to surface water in either reservoir area is not high enough to considerably raise the potential for contamination. There are no noteworthy contamination threats associated with other discrete contaminant sources. Finally, it should be noted that the hydrologic characteristics (e.g. basin shape & flushing rates) generally make reservoirs highly sensitive to existing and new sources for phosphorus and microbial contamination.

ARE THERE CONTAMINANTS IN OUR DRINKING WATER

As the State regulations require, we routinely test your drinking water for numerous contaminants. These contaminants include: Halo acetic acids, total coliform, turbidity, inorganic compounds, nitrate, nitrite, lead and copper, volatile organic compounds, total trihalomethanes, and synthetic organic compounds including pesticides and herbicides. 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 Chautauqua County Health Department at 716-753-4481.

Table of Detected Contaminants

Contaminant	Violation	Date of Sample	Level Detected	Unit Measure -ment	Regulatory Limit (MCL/AL)	MCLG	Likely Source of Contamination
MICROBIOLOGICAL CONTAMINANTS							
Turbidity(1)	No	12/4/14	0.14 NTU	NTU	TT=<1.0 NTU	N/A	Soil Run-off
Turbidity(1)	No	December (2014)	100% <0.3	NTU	TT=95% of samples <0.3NTU	N/A	Soil Run-off
Distribution Turbidity(1)	No	February (2014)	0.19	NTU	MCL>5 NTU	N/A	Soil Run-off
Total Coliform	No	12/2/14	1 positive sample	N/A	MCL=2 or more positive samples in 1 month	0	Naturally present in the environment
INORGANIC CONTAMINANTS							
Lead (2)	No	6/18/14	4.00; Range ND-9.00	ug/l	15 (AL)	0	Corrosion of household plumbing systems; Erosion of natural Deposits
Copper (3)	No	6/18/14	0.105; Range 0.017-0.251	mg/l	1.3(AL)	1.3	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives
Barium	No	2/5/14	0.038	mg/l	2.0(MCL)	2	Discharge of drilling wastes; discharge from metal refineries; erosion or natural deposits
Nitrate	No	2/12/14	0.295	mg/l	10(MCL)	10	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
STAGE 2 DISINFECTION BYPRODUCTS (SEWER PLANT)							
Haloacetic Acids	No	Quarterly (2014)	Ave.=19.5 Range 7.49-31.1	ug/l	60(MCL)	N/A	By-products of drinking water chlorination.
Trihalomethanes	No	Quarterly	Ave.=35.6	ug/l	80(MCL)	N/A	By-products of drinking water chlorination.

		(2014)	Range 13.6-64.6				TTHM's are formed when source water contains large amounts of organic matter.
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STAGE 2 DISINFECTION BYPRODUCTS (BLOOD STREET)

Haloacetic Acids	No	Quarterly (2014)	Ave.=13.2 Range 6.3-21.9	ug/l	60(MCL)	N/A	By-products of drinking water chlorination.
Trihalomethanes	No	Quarterly (2014)	Ave.=28.3 Range 11.1-54.6	ug/l	80(MCL)	N/A	By-products of drinking water chlorination. TTHM's are formed when source water contains large amounts of organic matter.

DISINFECTANT

Chlorine residual	No	Daily (2014)	Ave.=0.66 Range 0.05-1.1	mg/l	4.0(MCL)	N/A	Water additive used to control microbes.
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Notes:

1 - 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. Our highest single turbidity measurement for the year occurred on 12/4/14(0.14 NTU). State regulations require that turbidity must always be less than or equal to 1.0 NTU. The regulations require that 95% of the turbidity samples collected have measurements below 0.3 NTU. Although December 2014 was the month when we had the fewest measurements meeting the treatment technique for turbidity, the levels recorded were within the acceptable range allowed and did not constitute a treatment technique violation. Distribution Turbidity is a measure of the cloudiness of the water found in the distribution system. We monitor it because it is a good indicator of water quality. High turbidity can hinder the effectiveness of disinfectants. Our highest average monthly distribution turbidity measurement detected during the year (0.19 NTU) occurred in February 2014. This value is below the State's maximum contaminant level (5 NTU).

2- The level presented represents the 90th percentile of the 10 sites tested. A percentile is a value on a scale of 100 that indicates the percent of a distribution that is equal to or below it. The 90th percentile is equal to or greater than 90% of the Lead values detected at your water system. In this case 10 samples were collected at your water systems and the 90th percentile value was 4.0 ug/l. The action level for Lead was not exceeded at any of the sites tested.

3-The level presented represents the 90th percentile of the 10 samples collected. The 90th percentile value for Copper was 0.105 mg/l. The action level for Copper was not exceeded at any of the sites tested.

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.

Nephelometric Turbidity Unit (NTU): A measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

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).

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?

During 2014, our system was in compliance with applicable State drinking water operating, monitoring and reporting requirements.

DO I NEED TO TAKE SPECIAL PRECAUTIONS?

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).

INFORMATION FOR NON-ENGLISH SPEAKING RESIDENTS

Spanish

[Este informe contiene información muy importante sobre su agua beber. Tradúzcalo ó hable con alguien que lo entienda bien.](#)

French

[Ce rapport contient des informations importantes sur votre eau potable. Traduisez-le ou parlez en avec quelqu'un qui le comprend bien.](#)

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 up 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

The Brocton Water Treatment Facility now services the Village of Brocton, Lakeview Shock incarceration Prison and several water districts for the Town of Portland.

Our customer base has grown to over 5,000 and continues to grow. In the summer months we are sometimes called on to provide water to an area normally served by the City of Dunkirk due to the inability to provide adequate volume and due to a pump pit failure we have been providing water to that area on a regular basis for the last few months consecutively.

The Brocton Treatment Plant and main transmission line were constructed in the 1930's. Several areas of single point of failure potential have been identified. After 4 years of preparation, we are ready to bid on the necessary upgrades to ensure continued service of quality water to our customers. We are waiting for the State of New York to approve our tentative contract with Lakeview Shock Prison. This agreement is vital to our financing strategy and has been in place since August 2012 however it has yet received final approval.

Plans are also completed to replace the main transmission line. This project will bid separately to assure the affordability of the entire upgrade. We are also reviewing the regional water system currently proposed by Chadwick Bay. This may be a long term solution, but at this time we feel our continued production of water is in the best interest of our community.

Mayor David L. Hazelton
& Village Board of Trustees