



Oneida Area 2011 Annual Water Quality Report

Oneida Water Department
109 N. Main Street, Oneida NY 13421
Visit us on the web at Oneidacity.com

City of Oneida Water Department Profile

Oneida's Florence Creek Water System was constructed in 1926. In early 1980, the City's current water treatment plant was completed to provide filtration to the City's upland supply, for the first time correcting problems of taste, odor and color.

Today the City of Oneida Water Department serves almost 21,000 people and provides an average daily water supply of 2.2 million gallons (2.2 MGD). The Water Department employs 17 individuals who treat, monitor, maintain, construct, and distribute water through more than 80.8 miles of mains in the two counties, three cities, five towns, and four villages. This water supply has become a regional asset through the cooperation of the municipal leaders and dedicated employees.

Communities Served by Oneida Water			
Public Water Supply	Identification Number	POPULATION (2010 census)	Water Consumption (gallons-2011)
City of Oneida	NY2602381	10,654	355,773,000
Sherrill Kenwood Water District	NY3202419	3,250	59,623,000
Village of Vernon	NY3202412	1,272	114,933,000
Town of Stockbridge	NY2602379	1,093	33,520,000
Transmission Main *	NY2602381	924	24,515,000
Village of Oneida Castle	NY2602381	648	13,729,000
Taberg Water District	NY3202409	449	12,324,000
Village of Wampsville	NY2602382	543	16,869,000
Durhamville Water District	NY3230025	499	14,400,000
Prospect Street Water District	NY3230026	460	7,496,000
Sconodoo Highbridge WD	NY3233159	54	1,072,000
Town of Verona WD	NY3203517	1,001	145,847,000
Rte 365 WD	NY3230037	280	
Marble Hill WD	NY3230058	20	
Total Metered Sales/ Total Population		21,147	800,646,000
			Clear Water Flow
			1,027,914,000
			Unaccounted Water
			227,268,000

* Includes portions of the Town of Annsville, City of Rome, and Town of Verona

Water Supply

The City of Oneida starts with a high quality surface water source from Glenmore Reservoir on Florence Creek, which is located twenty miles north of the City in the Town of Annsville, Oneida County. The dam impounds water from a 13.8 square mile watershed on the edge of the Tug Hill Plateau. The watershed is mainly forestlands with approximately half being State Reforestation. The 378-foot long and 45-foot high dam, constructed in 1926 in this rural location, provides water storage to buffer seasonal water demands as well as dry weather supply. The reservoir holds 299 million gallons of water. The City owns the 500-acre site on which the reservoir and dam are located. Last year, our system did not experience any restriction of our water source.

Water Treatment

The City of Oneida reservoir and watershed receive regular inspections. While no contamination has been observed, treatment is required to ensure safe water is entering the distribution system.

Situated one-half mile down stream from the dam is the City's Water Treatment Plant. This conventional flocculation/sedimentation facility with a production capacity of 4 million gallons a day (4 MGD) was completed in 1980. The plant includes a rapid mix basin, flocculation facilities, (2) contact basins, (4) dual media filters, and a clear-well tank.

After the process of chemical addition, contact and filtration- microorganisms, including some that can cause disease (pathogens) may still be found in filtered water. Chlorination equipment is utilized to provide sufficient chlorine to kill any pathogens that may be present and to provide a chlorine residual in the water entering the distribution system. In order to inhibit corrosion of our distribution pipes we introduce zinc orthophosphate into the distribution system. This compound provides a thin protective coating to our pipes.

Grade 1A and IIA operators operate the plant, 365 days a year. An onsite laboratory is utilized by personnel for chemical testing for daily operation of the plant.

Distribution

A 20" cast iron main transports the water from the clearwell tank into the City. A pump station at Lake Street increases the capacity of the 20-mile pipeline from 2.8 MGD to 3.5 MGD with one pump operating. The water is distributed through a network of 80.8 miles of cast iron, asbestos cement and ductile iron water main throughout the City.

Baker and Clark Tanks provide distribution storage. These two domed concrete storage tanks have a combined capacity of 15 million gallons and are used to balance pressure in the distribution system and to ensure an adequate water supply for fire protection. A chlorination facility is located at the site to further treat all water leaving the tanks.

Drinking Water

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 EPA's Safe Drinking Water Hotline (1-800-426-4791).

Who should 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 (1-800-426-4791).

Source Water Assessment

The New York State Department of Health (NYSDOH) has evaluated Glenmore Reservoir's susceptibility to contamination under the Source Water Assessment Program (SWAP), and 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. Elevated susceptibility ratings do not mean that source water contamination has or will occur for this public water system (PWS). This PWS provides treatment and regular monitoring to ensure the water delivered to consumers meets all applicable drinking water standards.

The assessment area for this drinking water source contains no discrete potential contaminant sources, and only the protozoa land covers contaminate prevalence ratings is greater than low. This rating is attributed to the percentage of pasture land cover used in the analysis, without regard for the actual percentage of such pasture land actively being used for agricultural livestock. This results in this reservoir being assigned a high susceptibility to protozoa, despite the relative absence of such land actually being used for livestock purposes within the watershed. However, the high mobility of microbial contaminants in all such reservoirs results in this drinking water intake being assigned medium – high susceptibility ratings for enteric bacteria and viruses. Furthermore, all open reservoirs are deemed highly susceptible to water quality problems caused by phosphorus additions.

Lead

Federal Law requires water suppliers to notify their customers about the risks of Lead. 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 City of Oneida 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>.

Sources of drinking water

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.

Leaking toilets are the most common cause of high water bills.

There are a number of signs that a toilet needs some repairs, but many toilets leak without noticeable indications of trouble.

Here are some of the obvious signs of a leaking toilet:

- If you have to jiggle the handle to make a toilet stop running.
- Any sounds coming from a toilet that is not being used are sure signs of leaks.
- If you can see water trickling down the sides of the toilet bowl long after it's been flushed.
- If a toilet turns the water on for 15 seconds or so without you touching the handle (otherwise known as the phantom flusher).

Leaky Toilet Test

Here is a test to see if you have a leaking toilet:

Add food coloring to the toilet tank (not the toilet bowl)

Do not flush for 30 minutes. If the water in the toilet bowl changes color, you have a leaking toilet.

Water Conservation & Money Saving Ideas

Although our area is very fortunate to have access to a water supply which more than meets our demands, conservation efforts by both the city and the consumer are prudent in deterring increasing costs. As a consumer you can participate in this water conservation effort. The following are some ideas, which can be directly applied to your individual homes:

1. Use water-saving, flow-restricting shower heads and low flow faucets (aerators);
2. Repair dripping faucets and toilets that seem to flush by themselves;
3. Replace your toilet with a low flush model or place a brick in your tank to reduce the volume used on each flush;
4. Water your garden and lawn only when necessary. Remember that a layer of mulch in the flower beds and garden is not only aesthetically pleasing but will help retain moisture;
5. When washing your car don't let the hose run continuously;
6. When brushing your teeth, shaving or shampooing avoid running the water unnecessarily; and
7. 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.

Water Quality through Testing - *How do you know its safe?*

The City of Oneida routinely monitors for contaminants in your drinking water according to Federal and State laws. These contaminants include: total Coliform, turbidity, inorganic compounds, nitrate, nitrite, lead and copper, volatile organic compounds, total trihalomethanes, synthetic organic compounds, Cryptosporidium, and Giardia. In all, the City is required to test for over 125 contaminants. The table presented below depicts the compounds that were detected in your drinking water for the period of January 1st to December 31st, 2011. 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.

Table of Detected Contaminants							
Contaminant	Violation Yes/No	Date of Sample	Level Detected (Average/Maximum) (Range)	Unit Measurement	MCLG/MRDLG	Regulatory Limit (MCL, MRDL, MRDLG, TT or AL)	Likely Source of Contamination
Source Water from Glenmore Reservoir							
Total Organic Carbon	No	Monthly	4.4 ² 2.8-5.5	mg/l	N/A	TT	Naturally present in the environment
Finished Water							
Turbidity (EP) ¹	No	4/15/11	0.30	NTU	N/A	TT < 1.0 NTU	Soil Runoff
Turbidity (EP) ¹	No	8/2011	100 %	NTU	N/A	TT = 95% of samples < 0.3 NTU	Soil Runoff
Total Organic Carbon	No	Monthly	1.6 ² 1.0-2.2	mg/l	N/A	TT	Naturally present in the environment
Inorganics							
Nitrate	No	2/23/11	0.18	mg/l	10	MCL = 10	Runoff from fertilizer use; Erosion of natural deposits.
pH	No	Continuous	6.8 – 7.5	Std. Units	N/A	N/A	Naturally occurring
Calcium	No	2/23/11	8.57	mg/l	N/A	N/A	Naturally occurring
Manganese	No	2/23/11	29	ug/l	N/A	MCL = 300	Naturally occurring; Indicative of landfill contamination.
Copper (EP)	No	2/23/11	10.7	ug/l	1,300	AL = 1,300	Corrosion of household plumbing systems; Erosion of natural deposits; leaching from wood preservatives.
Nickel	No	2/23/11	0.6	ug/l	N/A	N/A	Erosion of natural deposits
Sodium	No	2/23/11	4.86	mg/l	N/A	(see health effects)	Naturally occurring; Road salt.
Zinc	No	2/23/11	0.360	mg/l	N/A	MCL = 5	Naturally occurring; Mining waste.

Table of Detected Contaminants

Contaminant	Violation Yes/No	Date of Sample	Level Detected (Average/Maximum) (Range)	Unit Measurement	MCLG/MRDLG	Regulatory Limit (MCL, MRDL, MRDLG, TT or AL)	Likely Source of Contamination
Copper	No	6/09	230 ³ 31-300	ug/l	1,300	AL = 1,300	Corrosion of household plumbing systems; Erosion of natural deposits; leaching from wood preservatives.
Lead	No	6/09	1.6 ⁴ ND- 6.3	ug/l	0	AL = 15	Corrosion of household plumbing systems; Erosion of natural deposits.
Chloride	No	2/23/11	2.11	mg/l	N/A	MCL = 250	Naturally occurring or indicative of road salt contamination.
Sulfate	No	2/23/11	10.5	mg/l	N/A	MCL = 250	Naturally occurring
Barium	No	2/23/11	6.4	ug/l	2,000	MCL = 2,000	Erosion of natural deposits.
Odor	No	2/23/11	2	Units	3	N/A	Organic or inorganic pollutants originating from municipal and industrial waste discharges; natural sources.
Alkalinity as CaCO3	No	2/23/11	32	mg/l	N/A	N/A	Naturally occurring
Total Dissolved Solids	No	2/23/11	66	mg/l	N/A	N/A	Naturally occurring

Disinfection By products

Total Trihalomethanes (TTHMs – chloroform, bromodichloromethane, dibromochloromethane and bromoform)	No	2,5,8,11/ 2011	50 ⁶ 9-102	ug/l	N/A	MCL = 80	By-product of drinking water chlorination needed to kill harmful organisms. TTHMs are formed when source water contains large amounts of organic matter.
Haloacetic Acids (mono-, di-, and trichloroacetic acid, and mono- and dibromoacetic acid)	No	2,5,8,11/ 2011	51 ⁶ 8.5 – 55	ug/l	N/A	MCL = 60	By-product of drinking water disinfection needed to kill harmful organisms.
Chlorine Residual	No	Contin- uous	1.3 ⁷ 0.8-2.0	mg/l	N/A	MRDL = 4	Water additive used to control microbes.

In the table above, you will find many terms and abbreviations you might not be familiar with. To help you better understand these terms we've provided the following definitions:

Action Level (AL) - The concentration of a contaminant, which, if exceeded, triggers treatment, or other requirements, which a water system must follow.

Entry Point (EP) - A representative sampling location after the last point of treatment but before the first consumer connection

Haloacetic Acids (HAA5): mono-, di-, and trichloroacetic acid, and mono- and dibromoacetic acid

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 Contaminant Level (MCL): The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLG as possible.

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.

Milligrams per liter (mg/l) – corresponds to one part of liquid in one million parts of liquid (parts per million - ppm).

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.

Non-Detects (ND) - laboratory analysis indicates that the constituent is not present.

Parts per billion (ppb) or Micrograms per liter (ug/l) - one part per billion corresponds to one part of liquid in one billion parts of liquid.

Total Trihalomethanes (TTHMs) – chloroform, bromodichloromethane, dibromochloromethane and bromoform

Treatment Technique (TT) – A required process intended to reduce the level of a contaminant in drinking water.

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 4/15/11 (0.30 NTU). State regulations require that turbidity must always be below 5 NTU which were met during the year. The regulations require that 95% of the turbidity samples collected have measurements below 0.5 NTU. Although August 2011 was the month with the lowest quality water leaving the plant (0.14 NTU monthly average), all samples were within the acceptable range allowed and did not constitute a treatment technique violation.

2 – This level represents the annual average and range of values calculated from sample results.

3 – The level presented represents the 90th percentile of the 30 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 copper values detected at your water system. In this case, thirty samples were collected at your water system and the 90th percentile value was the twenty seventh highest value (230 ug/l). The action level for copper was not exceeded at any of the sites tested.

4 – The level presented represents the 90th percentile of the 30 sites tested. Health Effects - Infants and children who drink water containing lead in excess of the action level could experience delays in their physical or mental development. Children could show slight deficits in attention span and learning disabilities. Adults who drink this water over many years could develop kidney problems or high blood pressure. The action level for lead was not exceeded at any of the sites tested.

6 – This level represents the highest annual quarterly running average calculated from Stage 1 data collected.

7- This level represents the annual average calculated from the clearwell outlet.

Cryptosporidiosis and Giardiasis

New York State law requires water suppliers to notify their customers about the risks of cryptosporidiosis and giardiasis. Cryptosporidiosis and giardiasis are intestinal illnesses caused by microscopic parasites. Cryptosporidiosis can be very serious for people with weak immune systems, such as chemotherapy, dialysis or transplant patients, and people with Crohn's disease or HIV infection. People with weakened immune systems should discuss with their health care providers the need to take extra precautions such as boiling water, using certified bottle water or a specially approved home filter. Individuals who think they may have cryptosporidiosis or giardiasis should contact their health care provider immediately.

For additional information on cryptosporidiosis and giardiasis, please contact Madison County Health Department @ 366-2526.

Giardia

Giardia is a microbial pathogen present in varying concentrations in many surface waters and groundwater under the influence of surface water. Giardia is removed/inactivated through a combination of filtration and disinfection or by disinfection. During 2009, as part of our routine sampling, 12 samples of Glenmore Reservoir source water were collected and analyzed for Giardia cysts. Of these samples, one was confirmed positive. Therefore, our testing indicates the presence of Giardia in our source water. Current test methods do not allow us to determine if the organisms are dead or if they are capable of causing disease. Ingestion of Giardia may cause giardiasis, an intestinal illness. People exposed to Giardia may experience mild or severe diarrhea, or in some instances no symptoms at all. Fever is rarely present. Occasionally, some individuals will have chronic diarrhea over several weeks or a month, with significant weight loss. Giardiasis can be treated with anti-parasitic medication. Individuals with weakened immune systems should consult with their health care providers about what steps would best reduce their risks of becoming infected with Giardiasis. Individuals who think that they may have been exposed to Giardiasis should contact their health care providers immediately. The Giardia parasite is passed in the feces of an infected person or animal and may contaminate water or food. Person to person transmission may also occur in day care centers or other settings where hand washing practices are poor.

City of Oneida, Village of Oneida Castle and Wampsville and Marble Hill Section
City of Oneida & Village of Oneida Castle – PWS ID# NY2602381
Village of Wampsville – PWS ID# NY2602382
Marble Hill Water District – PWS ID#3230058
109 N. Main Street Oneida, NY 13421

2011 Water Rates

	Per 1,000 gals.	Per 100 cuft.
Minimum Charge	\$17.34	\$17.34
0 to 150,000 gals. (20,000 cuft)	\$3.672	\$2.754
Over 150,000 gals. (20,000 cuft.)	\$2.448	\$1.836

The median household in Oneida uses on average 17 00 cuft per quarter for \$64.16 or 51,000 gallons per year or \$256.64 a year. Rate Tables are available in the Water Department Office.

Meter Reading & Billing

The City of Oneida Water Department issues bills quarterly to over 4,200 customers. The bills are based on meter readings obtained at each home and business. The meters are read electronically outside of the home by a special gun that retrieves a reading from the water meter located in the basement. These readings are downloaded to the computer to calculate consumption and issue bills. Meters throughout the system are periodically replaced to insure accurate readings.

Major Modifications

The water distribution system was improved in 2011 with the construction of 2,728 feet of new main. Projects included the replacement of the water main on a portion of Cedar Street, Linden Street, and Mott Street. The lead service line replacement program was continued in 2011 with the replacement of 2 lead services in the City of Oneida.

Projects planned for 2012 include the installation of water main on East Sixth Street in Oneida Castle, connection of main on Deerfield Drive and replacement of main on a portion of Williams Street.

Are there contaminants in our drinking water?

As the State regulations require, and in addition to overall Oneida sample results (see results in City of Oneida Report) the City of Oneida also routinely tests your drinking water at local districts for total coliform, free chlorine, and asbestos as required. The table presented below depicts which compounds were detected in your drinking water.

Table of Detected Contaminants							
Contaminant	Violation Yes/No	Date of Sample	Level Detected (Avg/Max) (Range)	Unit Measurement	MCLG / MRDLG	Regulatory Limit (MCL, MRDL, TT or AL)	Likely Source of Contamination
Microbiological Contaminants – Sample Monthly – None Detected							
Chlorine Residual (Oneida)	No	Daily / Monthly	0.6 ⁽¹⁾ (range = 0.1 – 1.3)	mg/l	N/A	MRDL = 4 ⁽²⁾	Water additive used to control microbes.
Chlorine Residual (Wampsville)			0.6 ⁽¹⁾ (range = 0.1 - 0.9)				
Chlorine Residual (Marble Hill)			0.4 ⁽¹⁾ (range = 0.2 - 1.5)				
Turbidity (Distribution) ³	No	Daily	100 %	NTU	N/A	TT =< 5 NTU	Soil Runoff
See City of Oneida AWQR for additional sample information - Physical Parameters, Radioactive Contaminants, Inorganic Contaminants, Synthetic Organic Contaminants, Principal Organic Contaminants, Lead and Copper							

- Notes:
- 1 - The levels presented represent the average and range of the levels reported on the microbiological sampling reports.
 - 2 - Value presented represents the Maximum Residual Disinfectant Level (MRDL) which is a level of disinfectant added for water treatment that may not be exceeded at the consumer's tap without an unacceptable possibility of adverse health effects. MRDLs are currently not regulated but in the future they will be enforceable in the same manner as MCLs.
 - 3- Turbidity is measured on a daily basis in the distribution system. All levels recorded during 2011 were within the acceptable range allowed.

Additional Information

If you have any questions about this report or concerning your water utility, please contact Arthur Smolinski, Water Superintendent at 363-1490. (Email Asmolinski@oneidacity.com) 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 Water Board meetings. They are held on the second Tuesday of each month in the Water Department Office in City Hall, 109 North Main Street, Oneida, at 4:00 PM.

Town of Stockbridge Water District Section

Stockbridge Water District – PWS ID# NY2602379

PO BOX 95 Munnsville NY 13409

Introduction

Last year, our samples demonstrated that contaminants were below the levels allowed by the State. If you have any questions about this report or concerning your drinking water, please contact Alex Stepanski, Town Supervisor, at 315-495-6752 or Dan Greene, Water Superintendent at 315-829-8102. We want you to be informed about your drinking water. If you want to learn more, please attend any of our regularly scheduled Town Board meetings - contact us for dates and times.

Water District Water Rates for Retail Customers

Residential Customers	Per 1000 gallons
First 8,000 gallons.	\$26.40
Over 8,000 gallons	\$3.30

Where does our water come from?

The Town of Stockbridge purchases 100% of its water from the City of Oneida. Our water systems serve approximately 1,061 people through 724 service connections.

Are there contaminants in our drinking water?

As the State regulations require, the City of Oneida routinely tests your drinking water total coliform and free chlorine as required. The table presented below depicts which compounds were detected in your drinking water.

Table of Detected Contaminants							
Contaminant	Violation Yes/No	Date of Sample	Level Detected (Average/Maximum) (Range)	Unit Measurement	MCLG/MRDLG	Regulatory Limit (MCL, MRDL, MRDLG, TT or AL)	Likely Source of Contamination
Microbiological Contaminants – Sample Monthly							
Total Coliform	Yes	8/3/2011 8/4/2011	Positive	n/a	0	Any Positive Sample	Naturally present in the environment.
Chlorine Residual	No	Daily / Monthly	0.4 ⁽¹⁾ (range = 0.1 – 1.2)	mg/l	N/A	MRDL = 4 ⁽²⁾	Water additive used to control microbes.
See City of Oneida AWQR for additional sample information - Physical Parameters, Radioactive Contaminants, Inorganic Contaminants, Synthetic Organic Contaminants, Principal Organic Contaminants, Lead and Copper							

Notes:

1 - The levels presented represent the average and range of the levels reported on the microbiological sampling reports.

2 - Value presented represents the Maximum Residual Disinfectant Level (MRDL) which is a level of disinfectant added for water treatment that may not be exceeded at the consumer's tap without an unacceptable possibility of adverse health effects. MRDLs are currently not regulated but in the future they will be enforceable in the same manner as MCLs.

What does this information mean?

A water sample collected August 3, 2011 indicated the presence of coliform bacteria. A follow-up sample collected August 4, 2011 was also positive for total coliform. The system was flushed and the chlorine levels were increased. The water system was placed on a Boil Water Order until two days of samples were negative for total coliform. The problem has been corrected and sample results since August have been negative. The potential adverse health effects are Coliform are bacteria that are naturally present in the environment and are used as an indicator that other, potentially-harmful, bacteria may be present. Coliforms were found in more samples than allowed and this was a warning of potential problems.

Major Modifications

No Major modifications to the system were completed in 2011.

Is our water system meeting other rules that govern operations?

During 2011, our system was in general compliance with applicable State drinking water operating, monitoring and reporting requirements.

Closing

Please call Stockbridge Water Superintendent if you have questions at 315-829-8102 or Madison County Health at 315-366-2526.

(See City of Oneida Report for additional sampling, treatment and water source information).

Annual Drinking Water Quality Report for 2011

Sherrill-Kenwood Water District

377 Sherrill Road, Sherrill, NY 13461
(Public Water Supply ID# NY3202419)

INTRODUCTION

To comply with State regulations, the Sherrill-Kenwood Water District, will be annually issuing a report describing the quality of your drinking water. If you have any questions about this report, or if you have problems or questions concerning your drinking water, please contact Christopher Dunn at (315) 363-2440. We want you to be informed about your drinking water. If you want to learn more, please visit our offices at 377 Sherrill Road or please attend any of our regularly scheduled water board meetings. The meetings are held on the second Wednesday of each month at 8:30 am at the City Offices on Sherrill Road.

Sherrill-Kenwood Water District Water Board

Sidney Thirumulpad
Michael Holmes – Secretary

Gordon Silsby
Christopher Dunn – Superintendent

Charles Vallee
Fred Johnson – Maintenance Mech.

WHERE DOES OUR WATER COME FROM?

Our water system serves a population of over 3,250 people through 1,300 metered service connections. The Sherrill-Kenwood Water District purchases 100% of its water from the City of Oneida through a 14-inch cast iron water main. The water is received at a pump station on West Hamilton Ave. The pump station is used to control the water level in a two million gallon concrete tank located on Marble Hill off East Hamilton Ave. The chlorine residual is boosted at our pump house by injection of a sodium hypochlorite solution prior to distribution to our customers.

In 2011, 59,623,000 gallons of water were consumed by customers serviced by the Sherrill-Kenwood Water District.

The Sherrill-Kenwood Water District distribution system consists of approximately 35 miles of 6, 8, 10 and 12-inch water mains. From the pump house a 14-inch water main which reduces to a 12-inch water main carries water to the two million gallon storage tank on Betsinger Rd. and East Hamilton Ave. There are two water mains (12 and 8-inch) which feed Kenwood. There are 168 fire hydrants in the system.

SYSTEM MODIFICATIONS

In 2011, the Sherrill-Kenwood Water District did not perform any Capital Improvements in the system.

WATER RATES FOR RETAIL CUSTOMERS

The District bills retail customers every two months. Residential customers pay a customer charge of \$8.50 per billing period (\$51.00/year) and \$3.15 per 100 cubic feet for all water consumption each billing period. The average household uses 1500 cubic feet for \$55.75 per billing period or 9000 cubic feet for \$334.50 per year. 100 cubic feet of water equals 750 gallons of water.

ARE THERE CONTAMINANTS IN OUR DRINKING WATER?

In addition to the City of Oneida sample results (see attached), the Sherrill-Kenwood Water District routinely tests your drinking water for coliform bacteria, disinfection byproducts and disinfection residuals. The table presented below depicts which compounds were detected in your drinking water. 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 Oneida County Health Department at 315-798-5064.

Table of Detected Contaminants							
Contaminant	Violation Yes/No	Date of Sample	Level Detected (Avg/Max) (Range)	Unit Measurement	MCLG / MRDLG	Regulatory Limit (MCL, MRDL, TT or AL)	Likely Source of Contamination
Disinfectants							
Chlorine Residual	No	Daily / Monthly	0.58 ⁽¹⁾ (range = 0.3 – 1.0)	mg/l	N/A	MRDL = 4 ⁽²⁾	Water additive used to control microbes.
Disinfection Byproducts (See also City of Oneida AWQR)							
Haloacetic Acids (mono-, di-, and trichloroacetic acid, and mono- and dibromoacetic acid)	No	Quarterly	44 ⁽³⁾ (range = 20 – 68)	ug/l	N/A	MCL = 60	By-product of drinking water disinfection needed to kill harmful organisms.
Total Trihalomethanes (TTHMs – chloroform, bromodichloromethane, dibromochloromethane and bromoform)	No	Quarterly	42 ⁽³⁾ (range = 15 – 75)	ug/l	N/A	MCL = 80	By-product of drinking water chlorination needed to kill harmful organisms. TTHMs are formed when source water contains large amounts of organic matter.
See City of Oneida AWQR for additional sample information - Physical Parameters, Radioactive Contaminants, Inorganic Contaminants, Synthetic Organic Contaminants, Principal Organic Contaminants, Lead and Copper							

Notes:

- 1 - The levels presented represent the average and range of the levels reported on the microbiological sampling reports.
- 2 - Value presented represents the Maximum Residual Disinfectant Level (MRDL) which is a level of disinfectant added for water treatment that may not be exceeded at the consumer's tap without an unacceptable possibility of adverse health effects. MRDLs are currently not regulated but in the future they will be enforceable in the same manner as MCLs.
- 3 - This level represents the average and range of results of quarterly sampling.

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?

Last year our system was in general compliance with applicable State drinking water operating, monitoring and reporting requirements.

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 at 315-363-2440 or the Oneida County Health Department at 315-798-5064.

(See City of Oneida Report for additional sampling, treatment and water source information).

Annual Drinking Water Quality Report for 2011

Taberg WD #1 & 75

PO Box 262 – Taberg, NY 13471
(Public Water Supply ID#NY3230037)

INTRODUCTION

To comply with State regulations, the Taberg Water Districts #1 & 75 will be annually issuing a report describing the quality of your drinking water. If you have any questions about this report or concerning your drinking water, please contact Terrie Conover, Water Operator, at 315- 336-4870. We want you to be informed about your drinking water. If you want to learn more, please attend any of our regularly scheduled Town Board meetings. The meetings are held on the 2nd Thursday of each month at 7 PM at the Annsville Town Hall (Main Street, Taberg).

WHERE DOES OUR WATER COME FROM?

The Taberg Water Districts #1 & 75 purchase 100% of its water from the City of Oneida. Our water systems serve approximately 540 people through 197 service connections. (See the City of Oneida Report for additional information on where our water comes from).

ARE THERE CONTAMINANTS IN OUR DRINKING WATER?

In addition to the City of Oneida sample results (see attached), the Taberg Water District Water System routinely tests your drinking water for coliform bacteria and disinfection residuals. The table presented below depicts which compounds were detected in your drinking water. 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 Oneida County Health Department at 315-798-5064.

Table of Detected Contaminants							
Contaminant	Violation Yes/No	Date of Sample	Level Detected (Avg/Max) (Range)	Unit Measurement	MCLG / MRDLG	Regulatory Limit (MCL, MRDL, TT or AL)	Likely Source of Contamination
Inorganics							
Asbestos	No	12/09	0.09	MFL ⁽¹⁾	7	MCL = 7	Decay of asbestos cement water mains; Erosion of natural deposits.
Disinfectants (See also City of Oneida AWQR)							
Chlorine Residual for Taberg WD #1 & #75	No	Daily / Monthly	0.7 ⁽²⁾ (range = 0.2 – 1.2)	mg/l	N/A	MRDL = 4 ⁽³⁾	Water additive used to control microbes.
Disinfection Byproducts (See also City of Oneida AWQR)							
Haloacetic Acids (mono-, di-, and trichloroacetic acid, and mono- and dibromoacetic acid)	No	9/08	42 ⁽³⁾ (range = 38 & 46)	ug/l	N/A	MCL = 60	By-product of drinking water disinfection needed to kill harmful organisms.
Total Trihalomethanes (TTHMs – chloroform, bromodichloromethane, dibromochloromethane and bromoform)	No	9/08	51 ⁽³⁾ (range = 26 & 76)	ug/l	N/A	MCL = 80	By-product of drinking water chlorination needed to kill harmful organisms. TTHMs are formed when source water contains large amounts of organic matter.
See City of Oneida AWQR for additional sample information - Physical Parameters, Radioactive Contaminants, Inorganic Contaminants, Synthetic Organic Contaminants, Principal Organic Contaminants, Lead and Copper							

Notes:

- 1 - Million Fibers per Liter (MFL) – million fibers per liter is a measure of the presence of asbestos fibers that are longer than 10 micrometers.
- 2 - The levels presented represent the average and range of the levels reported on the microbiological sampling reports
- 3 - Value presented represents the Maximum Residual Disinfectant Level (MRDL) which is a level of disinfectant added for water treatment that may not be exceeded at the consumer's tap without an unacceptable possibility of adverse health effects. MRDLs are currently not regulated but in the future they will be enforceable in the same manner as MCLs.
- 4 - Value presented represents the average and results of two samples collected for the Stage 2 Disinfection Byproducts sampling done by the City of Oneida.

WHAT DOES THIS INFORMATION MEAN?

We have learned through our testing that some contaminants have been detected; however, most of these contaminants were detected below the level allowed by the State.

IS OUR WATER SYSTEM MEETING OTHER RULES THAT GOVERN OPERATIONS?

Last year, our system was in compliance with applicable State drinking water operating, monitoring and reporting requirements. You may recall, a water main break occurred on November 8, 2011 resulting in a Boil Water Order for our system. The break was repaired and samples collected, indicating the water was in compliance. Our water system was returned to normal operations by November 11, 2011. We will continue to do our best to ensure that you have adequate water pressure and quantity at all times. Unfortunately, we can't control the occurrence of water main breaks. But we will respond as quickly as we can should any problems occur in the future. Please contact us immediately if you experience problems with your water service.

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 at 315- 336-4870.

See Attached City of Oneida Report for additional sampling, treatment and water source information.

Annual Drinking Water Quality Report for 2011
Prospect Street Water District (Town of Vernon) – PWS ID# NY3230026
Sconondoa-Highbridge Water District (Town of Vernon) – PWS ID# NY3233159
PO BOX 643 Vernon, NY 13476

INTRODUCTION

To comply with State regulations, the Town of Vernon will be annually issuing a report describing the quality of your drinking water. If you have any questions about this report or concerning your drinking water, please contact Myron Thurston, Town Supervisor, at 315-829-2422 or Arthur Smolinski, of the City of Oneida Water Department at 315-363-1490. We want you to be informed about your drinking water. If you want to learn more, please attend any of our regularly scheduled Town Board meetings - contact us for dates and times.

WHERE DOES OUR WATER COME FROM?

The Town of Vernon purchases 100% of its water from the City of Oneida for the Prospect Street and Sconondoa-Highbridge Water Districts. Our water systems serve approximately 460 people through 162 service connections (PSWD) and 53 people through 20 service connections (SHWD).

ARE THERE CONTAMINANTS IN OUR DRINKING WATER?

In addition to the City of Oneida sample results (see attached), the Town of Vernon (Prospect Street / Sconondoa-Highbridge Water District) routinely tests your drinking water for coliform bacteria and disinfection residuals. The table presented below depicts which compounds were detected in your drinking water. 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 Oneida County Health Department at 315-798-5064.

Table of Detected Contaminants							
Contaminant	Violation Yes/No	Date of Sample	Level Detected (Avg/Max) (Range)	Unit Measurement	MCLG / MRDLG	Regulatory Limit (MCL, MRDL, TT or AL)	Likely Source of Contamination
Disinfection By-Products (See Table 17 of Part 5) (See also City of Oneida AWQR)							
Chlorine Residual (Prospect Street)	No	Daily / Monthly	0.4 ⁽¹⁾ (range = 0.1 - 0.6)	mg/l	N/A	MRDL = 4 ⁽²⁾	Water additive used to control microbes.
See City of Oneida AWQR for additional sample information - Physical Parameters, Radioactive Contaminants, Inorganic Contaminants, Synthetic Organic Contaminants, Principal Organic Contaminants, Lead and Copper							

Notes:

- 1 - The levels presented represent the average and range of the levels reported on the microbiological sampling reports.
- 2 - Value presented represents the Maximum Residual Disinfectant Level (MRDL) which is a level of disinfectant added for water treatment that may not be exceeded at the consumer's tap without an unacceptable possibility of adverse health effects. MRDLs are currently not regulated but in the future they will be enforceable in the same manner as MCLs.

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?

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

CLOSING

Please call our office if you have questions at 315-829-2422 or the Oneida County Health Department at 315-798-5064.

(See City of Oneida Report for additional sampling, treatment and water source information).

Annual Drinking Water Quality Report for 2011
Village of Vernon WD
P.O. Box 1137, Vernon, NY 13476
(Public Water Supply ID#NY3202412)

INTRODUCTION

To comply with State regulations, the Village of Vernon will be annually issuing a report describing the quality of your drinking water. If you have any questions about this report or concerning your drinking water, please contact Henry Badgley, Water Operator, (315) 829-2038. 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 third Monday of each month at 7:30 PM at the Village Hall on Ruth Street.

WHERE DOES OUR WATER COME FROM?

The Village of Vernon purchases 100% of its water from the City of Oneida. The chlorine residual is boosted at our pump house on Route 5 by injection of a sodium hypochlorite solution prior to distribution to our customers. Any water not consumed by our customers is then stored in a 250,000-gallon elevated steel storage tank located on Judson Drive. Our water system serves a population of 1500 through 600 metered service connections.

ARE THERE CONTAMINANTS IN OUR DRINKING WATER?

In addition to the City of Oneida sample results (see attached), the Village of Vernon routinely tests your drinking water for coliform bacteria, disinfection byproducts and disinfection residuals. The table presented below depicts which compounds were detected in your drinking water. 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 Oneida County Health Department at 315-798-5064.

Table of Detected Contaminants							
Contaminant	Violation Yes/No	Date of Sample	Level Detected (Avg/Max) (Range)	Unit Measurement	MCLG / MRDLG	Regulatory Limit (MCL, MRDL, TT or AL)	Likely Source of Contamination
Disinfectants							
Chlorine Residual	No	Daily / Monthly	0.35 ⁽¹⁾ (range = 0.3 - 0.4)	mg/l	N/A	MRDL = 4 ⁽²⁾	Water additive used to control microbes.
Disinfection Byproducts (See also City of Oneida AWQR)							
Haloacetic Acids (mono-, di-, and trichloroacetic acid, and mono- and dibromoacetic acid)	No	Quarterly	6.4 ⁽³⁾ (range = ND - 31)	ug/l	N/A	MCL = 60	By-product of drinking water disinfection needed to kill harmful organisms.
Total Trihalomethanes (TTHMs - chloroform, bromodichloromethane, dibromochloromethane and bromoform)	No	Quarterly	51 ⁽³⁾ (range = 32 - 80)	ug/l	N/A	MCL = 80	By-product of drinking water chlorination needed to kill harmful organisms. TTHMs are formed when source water contains large amounts of organic matter.
See City of Oneida AWQR for additional sample information - Physical Parameters, Radioactive Contaminants, Inorganic Contaminants, Synthetic Organic Contaminants, Principal Organic Contaminants, Lead and Copper							

Notes:

- 1 - The levels presented represent the average and range of the levels reported on the microbiological sampling reports.
- 2 - Value presented represents the Maximum Residual Disinfectant Level (MRDL) which is a level of disinfectant added for water treatment that may not be exceeded at the consumer's tap without an unacceptable possibility of adverse health effects. MRDLs are currently not regulated but in the future they will be enforceable in the same manner as MCLs.
- 3 - This level represents the average and range of results of quarterly sampling.

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 New York State requirements.

IS OUR WATER SYSTEM MEETING OTHER RULES THAT GOVERN OPERATIONS?

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

CLOSING

Please call our office if you have questions at 315-829-2038 or the Oneida County Health Department at 315-798-5064.

(See City of Oneida Report for additional sampling, treatment and water source information).

Annual Drinking Water Quality Report for 2011
Town of Verona Water Districts
6600 Germany Road - Durhamville, NY 13054

Verona WD (Public Water Supply ID#NY3203517)
Durhamville WD (Public Water Supply ID#NY3230025)
Route 365/Sconondoa Rd/Snyder Rd WD (Public Water Supply ID#NY3230037)

INTRODUCTION

To comply with State regulations, the Town of Verona water department (Verona WD, Durhamville WD, Route 365/Sconondoa Rd/Snyder Rd WD), will be annually issuing a report describing the quality of your drinking water. If you have any questions about this report or concerning your drinking water, please contact Timothy Dodge, Water Operator, at 315-363-6880. We want you to be informed about your drinking water. If you want to learn more, please attend any of our regularly scheduled Town Board meetings. The meetings are held on the first Monday of each month at 7:30PM at the Verona Town Hall, 6600 Germany Road, Durhamville, NY.

WHERE DOES OUR WATER COME FROM?

The Town of Verona purchases 100% of its water from the City of Oneida for the Verona WD, Durhamville WD, and Route 365/Sconondoa Rd/Snyder Rd WD. Our water systems serve populations as follows -

- Verona WD - approximately 1050 people through 404 service connections
- Durhamville WD - 512 people through 197 service connections
- Route 365/Sconondoa Rd/Snyder Rd WD – 295 residents through 129 service connections (plus the Turning Stone / Oneida Nation properties)

ARE THERE CONTAMINANTS IN OUR DRINKING WATER?

As the State regulations require, the Town of Verona routinely tests your drinking water total coliform, free chlorine, and asbestos as required. The table presented below depicts which compounds were detected in your drinking water. 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 Oneida County Health Department at 315-798-5064.

Table of Detected Contaminants							
Contaminant	Violation Yes/No	Date of Sample	Level Detected (Avg/Max) (Range)	Unit Measurement	MCLG / MRDLG	Regulatory Limit (MCL, MRDL, TT or AL)	Likely Source of Contamination
Disinfection By-Products (See Table 17 of Part 5) (See also City of Oneida AWQR)							
Chlorine Residual (Durhamville)	No	Daily / Monthly	0.53 ⁽¹⁾ (range = 0.39 - 0.88)	mg/l	N/A	MRDL = 4 ⁽²⁾	Water additive used to control microbes.
Chlorine Residual (Rte. 365)			0.66 ⁽¹⁾ (range = 0.46 - 0.87)				
Chlorine Residual (Verona)			0.45 ⁽¹⁾ (range = 0.3 - 0.71)				
Disinfection Byproducts (See also City of Oneida AWQR)							
Haloacetic Acids (mono-, di-, and trichloroacetic acid, and mono- and dibromoacetic acid)	No	Durhamville – 9/2008	43.5 ⁽³⁾ (range = 36 - 51)	ug/l	N/A	MCL = 60	By-product of drinking water disinfection needed to kill harmful organisms.
		Rte. 365 – 9/2008	47.5 ⁽³⁾ (range = 40 - 55)				
		Verona – 9/2008	24.3 ⁽³⁾ (range = 1.1 - 59)				
Total Trihalomethanes (TTHMs – chloroform, dibromochloromethane, dibromochloromethane and bromoform)	No	Durhamville – 9/2008	65 ⁽³⁾ (range = 54 - 76)	ug/l	N/A	MCL = 80	By-product of drinking water chlorination needed to kill harmful organisms. TTHMs are formed when source water contains large amounts of organic matter.
		Rte. 365 – 9/2008	62.5 ⁽³⁾ (range = 57 - 68)				
		Verona – 9/2008	45 ⁽³⁾ (range = 23 - 70)				
See City of Oneida AWQR for additional sample information - Physical Parameters, Radioactive Contaminants, Inorganic Contaminants, Synthetic Organic Contaminants, Principal Organic Contaminants, Lead and Copper							

Notes:

- 1 - The levels presented represent the average and range of the levels reported on the microbiological sampling reports.
- 2 - Value presented represents the Maximum Residual Disinfectant Level (MRDL) which is a level of disinfectant added for water treatment that may not be exceeded at the consumer's tap without an unacceptable possibility of adverse health effects. MRDLs are currently not regulated but in the future they will be enforceable in the same manner as MCLs.
- 3 - This level represents the average and range of results of special sampling conducted in 2008 – Stage 2 Disinfection Byproduct Rule.

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?

Last year, our system was in general compliance with applicable State drinking water operating, monitoring and reporting requirements. We are required to collect samples for Coliform bacteria on a monthly basis. In each water system, we failed to collect the required Coliform samples in March 2011 and therefore cannot be sure of the quality of your drinking water.

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 at 315-363-6880 or the Oneida County Health Department at 315-798-5064.

(See City of Oneida Report for additional sampling, treatment and water source information).