

## Consumer Confidence Report Certificate of Delivery 2014

### BARRE TOWN WATER SYSTEM

I Carl Rogers hereby certify that the **Consumer Confidence Report** for calendar year 2014 has been distributed to all customers served by the above water system by mail or an alternative direct delivery method specified below and “good faith” efforts were used to reach non-bill paying consumers. Further, I certify that the information in the report is correct and consistent with the compliance monitoring data previously submitted to the Vermont Drinking Water and Groundwater Protection Division. Any intentional deception or misinformation represented in this report could be cited as a violation of U.S. EPA Safe Drinking Water Act of 1996.

Date CCR Distributed: 6-19-15

Delivery Methods Used:

X Mail            X Electronic Delivery            X Alternative direct delivery method(s) list below:

Hard Copies of the Report are available at the Town Clerk’s Office

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Good faith efforts were used to reach non-bill paying consumers. Those efforts included the following methods:

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Consecutive Water Systems only:

X Wholesaler CCR was included when distributing our CCR to customers. (A copy of the wholesaler’s CCR does not need to be included when sending the certification to the Division if the wholesaler is a Vermont Public Water System)

I certify, as the Administrative Contact or the water system Owner that the Consumer Confidence Report has been provided to all customers.

Signed \_\_\_\_\_ Print Carl Rogers

Title Town Manager

Phone # 802-479-9331 Date \_\_\_\_\_

Return to: Department of Environmental Conservation Drinking Water and Groundwater Protection Division One National Life Drive - Main 2 Montpelier, VT 05620-3521	Date received
<p align="center"><b>Include a copy of your CCR when submitting this CCR Certification of Delivery form</b></p>	

# BARRE TOWN WATER SYSTEM – VT0005566

## Consumer Confidence Report – 2014

This report is a snapshot of the quality of the water that we provided in 2014. Included are the details about where your water comes from, what it contains, and how it compares to Environmental Protection Agency (EPA) and state standards. We are committed to providing you with information because informed customers are our best allies. This report is designed to inform you about the quality water and services we deliver to you every day. To learn more, please attend any of our regularly scheduled meetings which are held:

Each Tuesday Evening starting at 7:00 P.M. at the Barre Town Offices, 149 Websterville Rd, Websterville, VT.

The person who can answer questions about this report is: Town Engineer, Harry Hinrichsen

Telephone: 802-479-2595 and/ or Email: hhinrichsen@barretown.org

### Water Source Information

Your water comes from

Source Name	Source Water Type
WELL 1	Groundwater
BARRE CITY - DIX RESERVOIR	Surface Water
GRANITEVILLE SOURCES	Ground Water under the Influence of Surface Water

The State of Vermont Water Supply Rule requires Public Community Water Systems to develop a Source Protection Plan. This plan delineates a source protection area for our system and identifies potential and actual sources of contamination. Please contact us if you are interested in reviewing the plan.

### Drinking Water Contaminants

The sources of drinking water (both tap water and bottled water) include surface water (streams, lakes) and ground water (wells, springs). As water travels over the land's surface or through the ground, it dissolves naturally-occurring minerals. It also picks up substances resulting from the presence of animals and human activity. Some "contaminants" may be harmful. Others, such as iron and sulfur, are not harmful. Public water systems treat water to remove contaminants, if any are present.

In order to ensure that your water is safe to drink, we test it regularly according to regulations established by the U.S. Environmental Protection Agency and the State of Vermont. These regulations limit the amount of various contaminants:

*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*, may come from a variety of sources such as storm water run-off, agriculture, and residential users.

*Radioactive contaminants*, which can be naturally occurring or the result of mining activity

*Organic contaminants*, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and also come from gas stations, urban storm water run-off, and septic systems.

### Water Quality Data

The table below lists all the drinking water contaminants that we detected during the past year. It also includes the date and results of any contaminants that we detected within the past five years if tested less than once a year. The presence of these contaminants in the water does not necessarily show that the water poses a health risk.

**Terms and abbreviations** - In this table you may find terms you might not be familiar with. To help you better understand these terms we have provided the following definitions:

**Maximum Contamination Level Goal (MCLG):** The “Goal” is the level of a contaminant in drinking water below which there is no known or expected risk to human health. MCLG’s allow for a margin of safety.

**Maximum Contamination Level (MCL):** The “Maximum Allowed” MCL is the highest level of a contaminant that is allowed in drinking water. MCL’s are set as close to the MCLG’s as feasible using the best available treatment technology.

**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 disinfectants in controlling microbial contaminants.

**Maximum Residual Disinfectant Level (MRDL):** The highest level of a disinfectant allowed in drinking water. Addition a disinfectant may help control microbial contaminants.

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

**90th Percentile:** Ninety percent of the samples are below the action level. (Nine of ten sites sampled were at or below this level).

**Treatment Technique (TT):** A process aimed to reduce the level of a contaminant in drinking water.

**Parts per million (ppm) or Milligrams per liter (mg/l):** (one penny in ten thousand dollars)

**Parts per billion (ppb) or Micrograms per liter (µg/l):** (one penny in ten million dollars)

**Picocuries per liter (pCi/L):** a measure of radioactivity in water

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

**Locational Running Annual Average (LRAA):** The average of sample analytical results for samples taken at a particular monitoring location during four consecutive calendar quarters.

**Running Annual Average (RAA):** The average of 4 consecutive quarters (when on quarterly monitoring); values in table represent the highest RAA for the year.

**Detected Contaminants BARRE TOWN WATER SYSTEM**

*\*NEW inclusion for 2014 CCRs – Disinfection Residual\**

*To be completed by the water system: Water Systems who chlorinated at any time during the year must report the RAA and range of chlorine residual detections. Values used to determine the RAA and range should be collected from the reported chlorine residual values taken at the time when routine coliform samples were collected (e.g. the RAA for a system which chlorinates and whose monitoring schedule requires one coliform sample per month, will be the average of 12 chlorine residual values; a system whose monitoring schedule requires two coliform sample per month, will be the average of 24 chlorine residual values). This table can be deleted if the water system did not chlorinate at any time during the year.*

Microbiological	Result	MCL	MCLG	Typical Source
No Detected Results were Found in the Calendar Year of 2014				

Chemical Contaminants	Collection Date	Highest Value	Range	Unit	MCL	MCLG	Typical Source
Barium	01/23/2014	0.022	0.022 - 0.022	ppm	2	2	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Methyl Tert-Butyl Ether (MTBE)	02/13/2014	1.1	1.1 - 1.1	ppb			
Nitrate	01/23/2014	1.4	1.4 - 1.4	ppm	10	10	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits

Radionuclides	Collection Date	Highest Value	Range	Unit	MCL	MCLG	Typical Source
Combined Radium	01/23/2014	0.672	0.672 - 0.672	pCi/L	5	0	Erosion of natural deposits
Radium-226	01/23/2014	0.064	0.064 - 0.064	pCi/L	5	0	Erosion of natural deposits
Radium-228	01/23/2014	0.608	0.608 - 0.608	pCi/L	5	0	Erosion of natural deposits

Disinfection ByProducts	Monitoring Period	LRAA	Range	Unit	MCL	MCLG	Typical Source
Total Haloacetic Acids (HAA5)	2014	16	0 - 31.6	ppb	60	0	By-product of drinking water disinfection
Total Trihalomethanes	2014	36	15.7 - 59.1	ppb	80	0	By-product of drinking water chlorination

Lead and Copper	Date	90 <sup>th</sup> Percentile	95 <sup>th</sup> Percentile	Range	Unit	AL	Sites Over AL	Typical Source
Copper	2011 to 2013	0.48	0.74	0.03 - 0.99	ppm	1.3	0	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives
Lead	2011 to 2013	2	3	0 - 3	ppb	15	0	Corrosion of household plumbing systems; Erosion of natural deposits

### Violation(s) that occurred during the year

*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 our drinking water meets health standards. The below table lists any drinking water violations we incurred during 2014. A failure to perform required monitoring means we cannot be sure of the quality of our water during that time.*

Type	Category	Analyte	Compliance Period
No Violations Occurred in the Calendar Year 2014			

### Additional information (including steps taken to correct any violations listed above)

### Health information regarding drinking water

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

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 Safe Drinking Water Hotline.

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. BARRE TOWN WATER SYSTEM 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 drinking 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>.

**Public Notice - Permit to Operate Issued October 1, 2013:** The Water System is required to notify all users of the following compliance schedule contained in the Permit to Operate issued by the State of Vermont Agency of Natural Resources:

1. On or before January 1, 2014, the Permittee shall submit an electronic copy of an O&M Manual for review and approval by the Secretary.
2. On or before November 1, 2013, the Permittee shall submit an improvement plan to the Secretary, identifying how the Water System intends to establish a physical separation/air gap and eliminate the cross connection hazard at the Adams Granite service connection served by both the Water System and a domestic on-site well.
3. On or before December 1, 2013, the Permittee shall color code all fire hydrants that are unable to meet the hydraulic requirements of the Rule and submit written notice to the local fire department as to the limitations of these hydrants.
4. On or before December 1, 2013, the Permittee shall replace the storage tank access hatch gaskets on the Waterman Street water storage tank in order to ensure a water tight seal and protect the sanitary quality of the water within the tank.
5. On or before December 1, 2013, the Permittee shall take all necessary repairs to the Waterman Hill water storage tank in order to ensure a water tight seal between the roof of the storage tank and the access riser.

**Public Notice - Uncorrected Significant Deficiencies:** The system is required to inform the public of any significant deficiencies identified during a sanitary survey conducted by the Drinking Water and Groundwater Protection Division that have not yet been corrected. For more information please refer to the schedule for compliance in the system’s Operating Permit.

Date Identified	Deficiency	Facility
07/21/2010	Inadequate Cross-Connection Controls (Storage Bypass)	DISTRIBUTION SYSTEM

*To be completed by the Water System:*

The Adams Granite Facility has installed a segment of pipe in their shop area to resolve the issue of providing an air gap between their on-site well water source and the Town’s incoming water line. The purpose of the air gap is to prevent the possibility of a cross connection between the two water sources and back-feed to the Town’s system and other customers.

**Distribution information**

*Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place and distributing copies by hand or mail.*