**Rutland City Water Treatment Division**

**2013 Report to Consumers on Water Quality**

This report is a snapshot of the quality of the water that we provided in 2013. 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.

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.

The person who can answer questions about this report is Scott Taggart at 802-773-0379 or email at rutwater@gmail.com.

### Water Source Information

**Your water comes from**

<table>
<thead>
<tr>
<th>Source Name</th>
<th>Source Water Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mendon Brook</td>
<td>Surface Water</td>
</tr>
</tbody>
</table>

### 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.

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

### 2013 Water Quality Test Results

The table below lists all drinking water contaminants detected during the past year. It also includes the date and results of any contaminants 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.

- **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 Table

<table>
<thead>
<tr>
<th>Contaminant</th>
<th>MCL</th>
<th>Action Level (AL)</th>
<th>90th Percentile</th>
<th>Maximum Residual Disinfectant Level Goal (MRDLG)</th>
<th>Maximum Residual Disinfectant Level (MRDL)</th>
<th>Treatment Technique (TT)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Microbial contaminants</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Inorganic contaminants</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Pesticides and herbicides</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Radioactive contaminants</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Organic contaminants</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

This report is a snapshot of the quality of the water that we provided in 2013. 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.

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.

The person who can answer questions about this report is Scott Taggart at 802-773-0379 or email at rutwater@gmail.com.
Key To Table
AL = Action Level
CDS = Compliance Data System
MCL = Maximum Contaminant Level
MCLG = Maximum Contaminant Level Goal
MFL = million fibers per liter
NTU = Nephelometric Turbidity Units
mrem/year = milligrams per year (a measure of radiation absorbed by the body)

Residential properties: heating fuels and most have on site septic systems.
Hotels, motels, restaurants: heating fuels and cleaning chemicals used.
Pico ski area: a threat if there was an accidental spill of a fossil fuel or a sewage problem.
Vermont state highway garage: this location stores a large amount of de-icing materials used on the highways in the area.

Potential Sources of Contamination
Route 4: a major highway that runs through the watershed, it is very heavily traveled highway with many trucks traveling through carrying many different products.
Alpine pipeline: the sewer line running along route 4 carrying sewage from the businesses and some residential properties located in our watershed. The sewage line is now accepting sewage from Killington Mountain Resort.
Vermont state highway garage: this location stores a large amount of de-icing materials used on the highways in the area.
Pico ski area: a threat if there was an accidental spill of a fossil fuel or a sewage problem.
Hotels, motels, restaurants: heating fuels and cleaning chemicals used.
Residential properties: heating fuels and most have on site septic systems.
Unregulated Contaminants
During testing, performed once each year, our water showed a radon level of less than 3.0 picocuries per liter (pic/l). The U.S. Environmental Protection Agency (EPA) is preparing a regulation which will specify a Maximum Contaminant Level for radon. Radon is a radioactive gas that occurs naturally in ground water and is released from water into the air during household use. At high exposure levels it can cause lung cancer. Radon readings in our water are low and should not cause concern.

Required Additional Health Information

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. Rutland City Water Department 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 – Temporary Operating Permit Issued March, 16, 2011:

1. The Rutland City Water Department Water System (the Water System), a public water system under the laws of the State of Vermont, was recently reissued a Temporary Operating Permit. October 1, 2013 Comply with Stage 2 DBP Rule MCLs

Once the DBP Reduction Implementation Plan above has been employed, the Water System must demonstrate compliance with the established Stage 1 and Stage 2 DBP Rule MCLs by the beginning of the Stage 2 Compliance Monitoring, October 1, 2013.

Note: “Rutland City Water Department established compliance with DBP MCLs prior to October 31, 2013 and continues to monitor as specified under Stage 2 of the Disinfection Byproduct Rule.”

The Water System is following through on specific requirements of the Drinking Water and Groundwater Protection Division to eliminate all potential sanitary hazards and provide for future system durability and reliability. In accordance with the Vermont Water Supply Rule, the Division has requested the timely resolution of all water system deficiencies. To obtain more specific information regarding these necessary public drinking water improvements, please call Jeffrey Wennberg of Rutland City Water Department Water System at (802) 773-1813.

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 Temporary Operating Permit.

<table>
<thead>
<tr>
<th>Date Identified</th>
<th>Deficiency</th>
<th>Facility</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Significant Deficiencies</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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.