2018 Annual Drinking Water Quality Report
Montville Water Supply
Montville, CT
PWSID# CT0864011

We're pleased to present to you our Annual Drinking Water Quality Report, also known as the Consumer Confidence Report. This report, a requirement of the 1996 amendments to the Safe Drinking Water Act, is designed to inform you about the quality water and services we deliver to you every day. Our constant goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water.

Water Source
Our water is purchased from the Groton Utilities Water Treatment Plant. This facility uses surface water and filters the water prior to distribution. Groton Utilities also uses chlorine dioxide to oxidize and remove manganese from our drinking water. Our system serves an estimated population of 1140 residents and maintains 456 service connections.

Our regularly scheduled meetings are held on the first Monday of every month at the Montville Town Hall at 6:00 pm. If you have any questions about this report or concerning your water system, please contact Jon Lilly at mailing address 83 Pink Row, Uncasville, CT 06382. We want our valued customers to be informed about their water system.

Source Water Protection
Source water is untreated water from streams, rivers, lakes, or underground aquifers that is used to supply public drinking water. Preventing drinking water contamination at the source makes good public health sense, good economic sense, and good environmental sense. You can be aware of the challenges of keeping drinking water safe and take an active role in protecting drinking water. There are lots of ways that you can get involved in drinking water protection activities to prevent the contamination of the ground water source. Dispose properly of household chemicals, help clean up the watershed that is the source of your community's water, attend public meetings to ensure that the community's need for safe drinking water is considered in making decisions about land use. Contact our office for more information on source water protection, or contact the Environmental Protection Agency (EPA) at 1.800.426.4791. You may also find information on EPA’s website at http://cfpub.epa.gov/safewater/sourcewater/.

A source water assessment report was recently completed by the Connecticut Department of Public Health, Drinking Water Division. The completed Assessment report is available for access on the Drinking Water Division’s web site: http://www.ct.gov/dph/cwp/view.asp?a=3139&q=398262&dphNav_GID=1824. The assessment found that this public drinking water source has a low susceptibility to potential sources of contamination. Additional source water assessment information can be found at the Environmental Protection Agency’s website: http://cfpub.epa.gov/safewater/sourcewater/.

Water Quality
Montville Water Supply and Groton Utilities routinely monitors for contaminants in your drinking water according to Federal and State laws. The following table shows any detection resulting from our monitoring for the period of January 1st to December 31st, 2018. It's important to remember that the presence of these contaminants does not necessarily pose a health risk.

The sources of drinking water include rivers, lakes, ponds and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and radioactive material and can pick up substances resulting from human or animal activity. All sources of drinking water are subject to potential
contamination by substances that are naturally occurring, or manmade. Contaminants that may be present in source water include:

**Microbial contaminants**, such as viruses and bacteria, may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife. **Inorganic contaminants**, such as salts and metals, 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 agriculture, urban storm water runoff, and residential uses. **Organic chemical contaminants**, including synthetic and volatile organic chemicals, are by-products of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff, and septic systems. **Radioactive contaminants** can be naturally-occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, U.S. Environmental Protection Agency (EPA) prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. U.S. Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

The table below lists all of the drinking water contaminants that were detected throughout water quality monitoring and testing. The presence of contaminants in the water does not necessarily indicate that the water poses a health risk.

### TEST RESULTS

Unless otherwise noted, testing was done in 2018

<table>
<thead>
<tr>
<th>Contaminant</th>
<th>Violation Y/N</th>
<th>Level Detected</th>
<th>Unit Measurement</th>
<th>MCLG</th>
<th>MCL</th>
<th>Likely Source of Contamination</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Microbiological Contaminants</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Coliform Bacteria (2018)</td>
<td>N</td>
<td>Absent</td>
<td>Highest monthly # of positive samples</td>
<td>Absent</td>
<td>1 positive</td>
<td>Naturally present in the environment</td>
</tr>
<tr>
<td>Turbidity (3/20/18)</td>
<td>N</td>
<td>0.75</td>
<td>ntu</td>
<td>n/a</td>
<td>TT</td>
<td>Soil runoff</td>
</tr>
<tr>
<td><strong>Inorganic Contaminants</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Copper* (2017)</td>
<td>N</td>
<td>0.07</td>
<td>ppm</td>
<td>1.3</td>
<td>AL = 1.3</td>
<td>Corrosion of household plumbing systems</td>
</tr>
<tr>
<td>Lead* (2017)</td>
<td>N</td>
<td>ND</td>
<td>ppb</td>
<td>0</td>
<td>AL = 15</td>
<td>Corrosion of household plumbing systems</td>
</tr>
<tr>
<td>Nitrate [as Nitrogen] (2018)</td>
<td>N</td>
<td>0.088</td>
<td>ppm</td>
<td>10</td>
<td>10</td>
<td>Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits</td>
</tr>
</tbody>
</table>

* = Reported results are the 90th percentile value (the value that 90% of all samples are less than). Of the ten samples collected for Lead, we had only one sample that detected Lead, which was found to be 1.3ppb. All samples for Lead and Copper were below their respective action levels.

### Disinfection By-Products

| Chlorine Residual (2018) | N | RAA: 1.02 (0.5-1.46) | ppm | MRDLG = 4 | MRDL = 4 | Water additive used to control microbes |
| HAA5 [Total Haloacetic Acids] (2018) | N | RAA: 28.15 (25.6-31.0) | ppb | 0 | 60 | By-product of drinking water chlorination |
| TTHM [Total Trihalomethanes] (2018) | N | RAA: 65.33 (51.6-82.7) | ppb | 0 | 80 | By-product of drinking water chlorination |

**Note:** The state allows us to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Not all contaminants are tested for every year due to monitoring waivers and therefore we must use the most recent round of sampling. Some of our data is more than one year old, however, is limited to no older than 5 years.

**Units:**

*Parts per million (ppm) or Milligrams per liter (mg/l) - one part per million corresponds to one minute in two years or a single penny in
Copper is an essential nutrient, but some people who drink water containing copper in excess of the action level over a relatively short amount of time could experience gastrointestinal distress. Some people who drink water containing copper in excess of the action level over many years could develop kidney problems or high blood pressure.

**Health Effects Statement:**
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 abilities. Adults who drink this water over many years could develop kidney problems or high blood pressure.

**Copper - Major Sources in Drinking Water:** Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives.

**Fluoride:** Fluoride levels must be maintained between 1.0 ppm to 1.46 ppm. Fluoridation of water is practiced to reduce the incidence of tooth decay. Children on low or restricted sodium diets may take into account their sodium intake from the drinking water. If you have been placed on a sodium restricted diet, please inform your physician that your water contained approximately 28 mg/L of sodium as a result of fluoridation treatment.

**Total Trihalomethanes (TTHM) and Haloacetic Acids (HAA5):** Formed as a by-product of drinking water chlorination. This chemical reaction occurs when chlorine combines with naturally occurring organic matter in water. 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. TTHM/HAA5 goal allow for a margin of safety.

**Turbidity:** Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.

**Important Information**

Since our system chlorinates its water, we are required to report our annual average for chlorine residual. Chlorine residual was found to be 1.02 ppm, with a range of 0.5 ppm to 1.46 ppm.
The Groton Utilities (water supplier) detected a range of sodium from 27-30mg/L. Because we exceeded the 28 mg/L threshold. To Our Water Customers: If you have been placed on a sodium-restricted diet, please inform your physician that our water contains 30 mg/L of sodium.

All 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 Environmental Protection Agency’s Safe Drinking Water Hotline at 1-800-426-4791.

For most people, the health benefits of drinking plenty of water outweigh any possible health risk from these contaminants. However, 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/Center of Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbiological contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

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. We are 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 thirty (30) seconds to two (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.

We at Montville Water Supply, work hard to provide top quality water to every tap. Water is a limited resource, so it is vital that we all work together to maintain it and use it wisely. We ask that all our customers help us to protect and preserve our drinking water resources, which are the heart of our community, our way of life and our children’s future. Please contact us with any questions. Thank you for working together for safe drinking water.