

2017 CONSUMER CONFIDENCE REPORT
Centre of New England – New London Turnpike System
Coventry, RI
PWSID# RI2980453

We are very pleased to provide you with this year's Consumer Confidence Report. This report provides you with information on the water and services that we delivered to you in 2017. Included are details about where your water comes from, what it contains, and how it compares to standards set by regulatory agencies.

We want our valued customers to be informed about their water utility. There are no regularly scheduled meetings, therefore; if after reviewing this report you have any questions, or would like to know more about the Centre of New England – New London Turnpike System, please call Matt McGowan at 401-274-0300.

The Quality of Your Drinking Water

Our goal is to provide you with a safe and dependable supply of drinking water. We are committed to ensuring the quality of your water.

The Source of Your Drinking Water

We purchase our water from the Kent County Water Authority.

The RI Department of Health, in cooperation with other state and federal agencies, has assessed the threats to Centre of New England – New London Turnpike System water supply sources. The assessment considered the intensity of development, the presence of businesses and facilities that use, store or generate potential contaminants, how easily contaminants may move through the soils in the Source Water Protection Area (SWPA), and the sampling history of the water.

Our monitoring program continues to assure that the water delivered to your home is safe to drink. The complete Source Water Assessment Report is available from Centre of New England – New London Turnpike System or the Department of Health at (401) 222-6867.

Why Are There Contaminants in My 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 Environmental Protection Agency's (EPA) Safe Drinking Water Hotline (800-426-4791).

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

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 activity:

- **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 stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- **Pesticides and herbicides**, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.
- **Organic chemical contaminants**, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.
- **Radioactive contaminants**, which can be naturally occurring or the result of oil and gas production and mining activities.

Water Quality Test Results

The following table lists all of the drinking water contaminants that were detected through our water quality monitoring and testing. The presence of contaminants in the water does not necessarily indicate that the water poses a health risk. Unless otherwise noted, the data presented in this table is from the January – December 2017 monitoring period. For those contaminants that are monitored less frequently the most recent test results are listed.

Maximum Contaminant Levels (MCL's) are set at very stringent levels. The Maximum Contaminant Level Goal (MCLG) is set at a level where no health effects would be expected, and the MCL is set as close to that as possible, considering available technology and cost of treatment. A person would have to drink 2 liters of water every day, as recommended by

health professionals, at the MCL level for a lifetime to have a one-in-a-million chance of having the described health effect.

2017 TEST RESULTS For KENT COUNTY WATER AUTHORITY						
Contaminants	Violation Y/N	Level Detected (Range)	Unit Measurement	MCLG	MCL	Likely Source of Contamination
Microbiological Contaminants						
Total Coliform Bacteria (2017)	N	1% (0.125-1.0%)	Monthly Max %	0%	Presence of Coliform bacteria in >5% of monthly samples	Naturally present in the environment
Total Organic Carbon (2017)	N	1.62 (1.54-1.78)	ppm	n/a	TT	Naturally present in the environment
Turbidity (2017)	N	0.22 (0.02-0.22)	NTU	n/a	TT	Soil runoff
Radioactive Contaminants						
Combined Radium – 226/228 (2017)	N	1.2 (0.0-1.2)	pCi/L	0	5	Naturally occurring radioactivity in bedrock.
Inorganic Contaminants						
Barium (2017)	N	0.015 (0.004-0.015)	ppm	2	2	Erosion of natural deposits
Chromium (2014)	N	5.0 (0.24-5.0)	ppb	100	100	Discharge from steel and pulp mills; erosion of natural deposits
Copper * * (2017)	N	0.012	ppm	1.3	AL=1.3	Corrosion of household plumbing systems
Fluoride (2017)	N	0.74 (0.22-0.86)	ppm	4	4	Erosion of natural deposits.
Lead ** (2017)	N	1.9	ppb	0	AL=15	Corrosion of household plumbing systems
Nitrate (as Nitrogen) (2017)	N	3.29 (0.22-3.29)	ppm	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; Erosion of natural deposits
Synthetic Organic Contaminants including Pesticides and Herbicides						
Di(2-ethylhexyl)-phthalate (2017)	N	1.0 (0.0-1.0)	ppb	0	6	Discharge from rubber and chemical factories
Volatile Contaminants						
Chlorine (2017)	N	RAA = 0.56 (0.43-0.67)	ppm	MRDLG = 4	MRDL = 4	Water additive used to control microbes
Total Haloacetic Acids (HAA5) (2017)	N	RAA*** = 22 (11.6-25.1)	ppb	0	60	By-product of drinking water chlorination
Total Trihalomethanes (TTHM) (2017)	N	RAA*** = 73 (33-87.5)	ppb	0	80	By-product of drinking water chlorination

* *E.coli* are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Microbes in these wastes can cause short-term effects, such as diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, some of the elderly, and people with severely compromised immune systems.

**All sampling results represented at the 90th Percentile. For Copper, 0 of 31 samples were above the action level. For Lead, 0 of 31 samples were above the action level.

***RAA: Running Annual Average, is the average of all monthly or quarterly samples for the last year at all sample locations.

ND = Not Detected

2017 TEST RESULTS FOR CENTRE OF NEW ENGLAND – NEW LONDON TURNPIKE SYSTEM

Contaminants	Violation Y/N	Level Detected (Range)	Unit Measurement	MCLG	MCL	Likely Source of Contamination
Microbiological Contaminants						
Total Coliform Bacteria (December 2017)	N	Present (2 Positive)	Highest monthly # of positive samples	0 positive	1 positive	Naturally present in the environment
Fecal Coliform and/or <i>E.coli</i> (December 2017)	Y	Present (1 Positive)	n/a	0	a routine sample and repeat sample are total coliform positive, and one is also fecal coliform or <i>E. coli</i> positive	Human and animal fecal waste
Inorganic Contaminants						
Copper* (2017)	N	0.016	ppm	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead* (2017)	N	0.0	ppb	0	AL=15	Corrosion of household plumbing systems, erosion of natural deposits
*All sampling results represented at the 90 th Percentile. All 21 samples for Lead and Copper were found to be below their respective Action Levels.						
Volatile Contaminants						
Chlorine (2017)	N	RAA = 0.3 (0.18-0.51)	ppm	MRDLG = 4	MRDL = 4	Water additive used to control microbes
Total Haloacetic Acids (HAA5) (2017)	N	RAA** = 20.8 (16.6-26.6)	ppb	0	60	By-product of drinking water chlorination
Total Trihalomethanes (TTHM) (2017)	Y	RAA** = 79.8 (59-96.1)	ppb	0	80	By-product of drinking water chlorination

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 \$10,000.

Parts per billion (ppb) or Micrograms per liter (ug/L) - One part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

Picocuries per liter (pCi/L) - Picocuries per liter is a measure of the radioactivity in water.

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

Maximum Contaminant Level (MCL) -The MCL is the highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

Maximum Contaminant Level Goal (MCLG) - The MCLG is 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.

Violations

Total Trihalomethanes (TTHM) MCL Violation

TTHMs are formed as a by-product of drinking water chlorination. This chemical reaction occurs when chlorine combines with naturally occurring organic matter in water. Water tests were done on your drinking water this summer, when TTHM are thought to be at their highest. The results of these samples revealed the Locational Running Annual Average (LRAA) levels for TTHM in excess of the MCL of 80 ppb. We are in the process of exploring the various options to reduce TTHM in your water supply. Some people who drink water containing TTHM in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer.

E.coli MCL (RTCR) Violation

In December 2017, our water testing results were positive for the presence of fecal coliform bacteria and/or *E. coli*. A "Boil Water Order" was immediately issued. To resolve this problem, we chlorinated the distribution system. Public notification was posted or distributed to all concerned residents. Fecal coliforms and *E. coli* are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Microbes in these wastes can cause short-term effects, such as diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, and people with severely compromised immune systems. Coliforms were found in more samples than allowed and this was a warning of potential problems. Subsequent tests have been negative for fecal coliform and *E. Coli* bacteria.

State Monitoring Violation for E.coli (TCR)

In 2017, Our system failed to collect follow up samples from our approved upstream and downstream locations within 24 hours following an EC+ routine sample collected on 12/21/2017. Samples were collected from a non-approved location.

We will comply with the testing requirements in compliance with the RIDOH DWQ's regulation. Subsequent tests have been negative for fecal coliform and *E. Coli* bacteria.

Public Notification Rule Linked to Violation

In 2017, Our system failed to notify all our residents of an E.coli MCL violation within the required 24-hour period. Our system failed to submit public notification to its customers and a copy of the public notice and certification to the Rhode Island Department of Health's Center for Drinking Water Quality within the allotted time. A copy of the public notice and a certification was submitted to the Center for Drinking Water Quality on January 4, 2018, and we have been found to be in full compliance with this order.

Failure to Notify other PWS Violation (GWR)

In 2017, Our system failed to notify our wholesale system of an E.coli MCL violation within the required 24-hour period. Since this violation, we have notified them and submitted all required paperwork to the RIDOH DWQ on December 28, 2017; we have been found to be in full compliance with this order.

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/Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Water Drinking 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. Rockville Mill Community 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 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 Centre of New England - New London Turnpike System work to provide top quality water to every tap. We encourage all of our customers to conserve and use water efficiently and remind you to help us protect our water sources, which are the heart of our community, our way of life and our children's future. Please do not hesitate to call our office with any questions.