

**Consumer Confidence Report – 2022  
Covering Calendar Year – 2021**

This brochure is a snapshot of the quality of the water that we provided last year. 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. If you would like to learn more about our decision-making processes that affect drinking water quality, please call JONATHAN GERHARD at 401-782-0637.

Our drinking water is supplied from another water system through a Consecutive Connection (CC). To find out more about our drinking water sources and additional chemical sampling results, please contact our office at the number provided below. Your water comes from:

Source Name	Source Water Type
No other sources to display.	

Buyer Name	Seller Name
NARRAGANSETT WATER DEPT-NORTH END	NORTH KINGSTOWN TOWN OF

We purchase water for this area of the North End (PWSID# RI1858429) water system from the Town of North Kingstown. In 2021 North Kingstown Water operated ten (10) municipal wells, which draw water from the Hunt-Annaquatucket-Pettaquamscutt (HAP) aquifer system. The HAP aquifer system has been designated a "Sole Source Aquifer" by the US Environmental Protection Agency (USEPA), meaning that there is no alternative source of drinking water available.

The RI Department of Health and URI Cooperative Extension, in cooperation with other state and federal agencies, has assessed the threats to North Kingstown's 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. The monitoring program continues to assure that the water delivered to your home is safe to drink. In our community's case, the assessment found that North Kingstown's sources are at LOW RISK of contamination. This does NOT mean that the water cannot become contaminated. Protection efforts are necessary to assure continued water quality. The complete Source Water Assessment Report is available from the Town of North Kingstown or the Department of Health at (401) 222-6867

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as those 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 microbial contaminants are available from the Safe Drinking Water Hotline (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 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 (800-426-4791).

The sources of drinking water (both tap water and bottled water) included 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.

Contaminants that may be present in sources water before we treat it include: Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, 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, which 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.

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

Our water system is required to test a minimum of 5 samples per month in accordance with the Total Coliform Rule for microbiological contaminants. Coliform bacteria are usually harmless, but their presence in water can be an indication of disease-causing bacteria. When coliform bacteria are found, special follow-up tests are done to determine if harmful bacteria are present in the water supply. If this limit is exceeded, the water supplier must notify the public.

Water Quality Data

The following tables list all of the drinking water contaminants which were detected during the 2021 calendar year. The presence of these contaminants does not necessarily indicate the water poses a health risk. Unless noted, the data presented in this table is from the testing done January 1- December 31, 2021. The state requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Some of the data, though representative of the water quality, is more than one year old. **Our water system makes every effort to provide you with safe drinking water.**

Terms & Abbreviations

**Maximum Contaminant 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. MCLGs allow for a margin of safety.  
**Maximum Contaminant Level (MCL):** the "Maximum Allowed" 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.  
**Secondary Maximum Contaminant Level (SMCL):** recommended level for a contaminant that is not regulated and has no MCL.  
**Action Level (AL):** the concentration of a contaminant that, if exceeded, triggers treatment or other requirements.  
**Treatment Technique (TT):** a required process intended to reduce levels of a contaminant in drinking water.

**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 contaminants.

**Non-Detects (ND):** lab analysis indicates that the contaminant is not present.

**Parts per Million (ppm)** or milligrams per liter (mg/l)

**Parts per Billion (ppb)** or micrograms per liter (µg/l)

**Picocuries per Liter (pCi/L):** a measure of the radioactivity in water.

**Millirems per Year (mrem/yr):** measure of radiation absorbed by the body.

**Monitoring Period Average (MPA):** An average of sample results obtained during a defined time frame, common examples of monitoring periods are monthly, quarterly and yearly.

**Nephelometric Turbidity Unit (NTU):** a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person. Turbidity is not regulated for groundwater systems.

**Running Annual Average (RAA):** an average of sample results obtained over the most current 12 months and used to determine compliance with MCLs.

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

### Testing Results for: NARRAGANSETT WATER DEPT-NORTH END

Microbiological	Result	MCL	MCLG	Typical Source	Violation
No detected results were found in the Calendar Year of 2021					

Regulated Contaminants	Collection Date	Highest Value	Range (low/high)	Unit	MCL	MCLG	Typical Source	Violation
No detected results were found in the past five years.								

Disinfection Byproducts	Sample Point	Monitoring Period	Highest LRAA	Range (low/high)	Unit	MCL	MCLG	Typical Source	Violation
TOTAL HALOACETIC ACIDS (HAA5)	ROGERS CORPORATION	2021	3.4	0 - 2.1	ppb	60	0	Byproduct of drinking water disinfection	No
TTHM	ROGERS CORPORATION	2021	5.6	0-7.7	ppb	80	0	Byproduct of drinking water disinfection	No

Lead and Copper	Monitoring Period	90 <sup>th</sup> Percentile	Range (low/high)	Unit	AL	Sites Over AL	Typical Source
COPPER, FREE	2019 - 2021	0.16	0.014 - 0.2	ppm	1.3	0	Corrosion of household plumbing systems
LEAD	2019 - 2021	0	0 - 27	ppb	15	1	Corrosion of household plumbing systems

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. Your 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>.

Distribution Disinfectant Residual Level	Monitoring Period	Highest MPA	RAA	Units	MRDL	MRDLG	Violation
Monthly Average	2021	0.3400	0.18	MG/L	4	4	No

During the 2021 calendar year, we had the below noted violation(s) of drinking water regulations.

Federal Compliance Period	Analyte	Comments
No Violations Occurred in the Calendar Year of 2021		

Additional Required Health Effects Language:

Infants and children are typically more vulnerable to lead in drinking water than the general population. It is possible that lead levels at your home may be higher than at other homes in the community as a result of materials used in your home's plumbing. If you are concerned about elevated lead levels in your home's water, you may wish to have your water tested and flush your tap for 30 seconds to 2 minutes before using tap water. Additional information is available from the Safe Drinking Water Hotline (800-426-4791).

There are no additional required health effects violation notices.

Some or all of our drinking water is supplied from another water system. The table below lists all of the drinking water contaminants, which were detected during the 2021 calendar year from the water systems that we purchase drinking water from.

Regulated Contaminants	Collection Date	Water System	Highest Value	Range (low/high)	Unit	MCL	MCLG	Typical Source	Violation
BARIUM	3/30/2020	NORTH KINGSTOWN TOWN OF	0.015	0.006 - 0.015	ppm	2	2	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits	No
CADMIUM	3/30/2020	NORTH KINGSTOWN TOWN OF	4	0 - 4	ppb	5	5	Corrosion of galvanized pipes; Erosion of natural deposits; Discharge from metal refineries; Runoff from waste batteries and paints	No
CHROMIUM	4/21/2020	NORTH KINGSTOWN TOWN OF	2	0 - 2	ppb	100	100	Discharge from steel and pulp mills	No
NITRATE-NITRITE	9/15/2021	NORTH KINGSTOWN TOWN OF	4.29	0 - 4.29	ppm	10	10	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits	No
PER FLUOROCTANE SULFONIC ACID (PFOS)	4/11/2019	NORTH KINGSTOWN TOWN OF	6.32	0 - 6.32	NG/L	70		Surfactant or emulsifier; used in fire-fighting foam, circuit board etching acids, alkaline cleaners, floor polish, and as a pesticide active ingredient for insect bait traps; U.S. manufacture of PFOS phased out in 2002; however, PFOS still generated incidentally	No
PER FLUOROCTANOIC ACID (PFOA)	4/11/2019	NORTH KINGSTOWN TOWN OF	14.4	0 - 14.4	NG/L	70		Perfluorinated aliphatic carboxylic acid; used for its emulsifier and surfactant properties in or as fluoropolymers, fire-fighting foams, cleaners, cosmetics, greases and lubricants, paints, polishes, adhesives and photographic films.	No
PERFLUORO HEPTANOIC ACID (PFHPA)	4/11/2019	NORTH KINGSTOWN TOWN OF	4.67	0 - 4.67	NG/L	70		Manmade chemical; used in products to make them stain, grease, heat and water resistant	No

**Please Note: Because of sampling schedules, results may be older than 1 year.**

During the 2021 calendar year, the water systems that we purchase water from had the below noted violation(s) of drinking water regulations.

Water System	Type	Category	Analyte	Compliance Period
No Violations Occurred in the North Kingstown water system in the Calendar Year of 2021				

Additional Required Health Effects Notices:

Some PFAS compounds have been shown to cause development toxicity, immunological toxicity, and effects on cholesterol metabolism, particularly PFOA, PFOS, PFHxS, PFHpA, PFNA, and PFDA. The toxicity of other PFAS compounds is currently not well understood, although they remain in the blood for shorter periods of time. Rhode Island is in the process of developing regulations for PFAS in drinking water.