

NARRAGANSETT WATER DEPT-NORTH END RI1858429 (Source of Supply- North Kingstown)

Consumer Confidence Report – 2021

Covering Calendar Year – 2020

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 above. 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. The Town of North Kingstown draws its water from eleven (11) municipal wells, which draw water from the Hunt Annaquatucket-Pettaquamscutt (HAP) aquifer system. Average daily water use in 2016 was approximately 2.86 million gallons per day. The HAP aquifer system has been designated a "Sole Source Aquifer" by the US Environmental Protection Agency (USEPA), meaning there is no alternative source of drinking water.

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 2020 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, 2020. 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
No Detected Results were Found in the Calendar Year of 2020				

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

Disinfection Byproducts	Sample Point	Monitoring Period	Highest LRAA	Range (low/high)	Unit	MCL	MCLG	Violation	Typical Source
TOTAL HALOACETIC ACIDS (HAA5)	DEWAL INDUSTRIES	2020	4	0 - 6.5	ppb	60	0	No	Byproduct of drinking water disinfection
TTHM	DEWAL INDUSTRIES	2020	15	2.42 - 15.1	ppb	80	0	No	Byproduct of drinking water disinfection

Lead and Copper	Monitoring Period	90 th Percentile	Range (low/high)	Unit	AL	Sites Over AL	Typical Source
COPPER, FREE	2017 - 2019	0.347	0.0261 - 0.582	ppm	1.3	0	Corrosion of household plumbing systems
LEAD	2017 - 2019	4.8	0 - 8	ppb	15	0	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>.

Maximum Disinfection Level	MPA	MPA Units	RAA	RAA Units
2020 - 2020	0.3200	MG/L	0.2	MG/L

During the 2020 calendar year, we had the below noted violation(s) of drinking water regulations.

Federal Compliance Period	Analyte	Comments
7/1/2020	CONSUMER CONFIDENCE RULE	Failed to deliver Consumer Confidence Report to the state or consumers on time

Additional Required Health Effects Language:

Some people who drink water containing trihalomethanes 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.

There are no additional required health effects violation notices.

The Narragansett Water Department North End water system area supplied with water purchased from North Kingstown violated a drinking water standard over the past year. Although this was not an emergency, as our customers, you have the right to know what happened and what we did to correct the situation.
The Narragansett Water Department is required to deliver a Consumer Confidence Report to our customers and the state prior July 1 each year. We delivered the 2020 CCR covering calendar year 2019 to our customers prior to July 1, 2020 as required, but the CCR was not delivered to the state at the same time. We delivered the 2020 CCR to the state on July 9, 2020 upon recognition of this oversight and have taken corrective action to assure that future reports are delivered to all parties on time as required.

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 2020 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
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
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
CHROMIUM	4/21/2020	NORTH KINGSTOWN TOWN OF	2	0 - 2	ppb	100	100	Discharge from steel and pulp mills
NITRATE	9/1/2020	NORTH KINGSTOWN TOWN OF	4.62	0 - 4.62	ppm	10	5	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
PENTACHLOROPHENOL	9/1/2020	NORTH KINGSTOWN TOWN OF	0.14	0 - 0.14	ppb	1	0	Discharge from wood preserving factories
PERFLUOROCTANE 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
PERFLUOROCTANOIC 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.
PERFLUOROHEPTANOIC ACID (PFHPA)	4/11/2019	NORTH KINGSTOWN TOWN OF	4.67	0 - 4.67				Manmade chemical; used in products to make them stain, grease, heat and water resistant

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

During the 2020 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
NORTH KINGSTOWN TOWN OF	Failed to conduct groundwater monitoring for coliform	Monitoring	E. COLI	8/25/2020
NORTH KINGSTOWN TOWN OF	Failed to monitor/report as required for chlorine or disinfection by-products	Monitoring	DBPs	1/1/2020 - 12/31/2020

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.

There are no additional required health effects violation notices.