



Reliable Water For Our Communities

# 2020 Water Quality Report



Este informe contiene información muy importante sobre su agua potable. Para leer este informe en español, visite [NMBWater.com](http://NMBWater.com) o llame al (305) 654-7137 para solicitar una copia en español

Rapò sila gen infomasyon ki enpòtan sou dlo potab ou bwè a. Pou ou ka li yon kopi rapò sa an kreyòl, le nan [NMBWater.com](http://NMBWater.com) oubien rele (305) 654-7137 pou ou kapab mande yon kopi an kreyòl

**Water System ID: 4131618**

# Message from the City of North Miami Beach

The City of North Miami Beach (NMB) owns and operates the Norwood Water Treatment Plant, which processes ground water from both the Biscayne and Floridan aquifers. A series of 20 production wells ranging in depth from approximately 60 to 1,250 feet extract up to 25 million gallons per day. This water is then passed through one of three treatment processes, lime softening, nanofiltration, or reverse osmosis. Once the water is treated, it then travels through our distribution system to homes and businesses.

We have taken great steps to improve our services and with great pride we are pleased to announce the NMB Water 2020 Annual Quality Report, also known as the Consumer Confidence report. This annual report provides information on the quality of water delivered to our customers between January 1, 2020 thru December 31, 2020. Our drinking water meets all federal and state requirements.

After reviewing this report, you will have a better understanding of how our utility professionals are working every day to improve water quality and to protect our precious water resources. We have developed an extensive program of improvements in infrastructure. Our current Capital Improvement Project plan includes an investment of about \$100 million dollars in our infrastructure which will help us continue to provide reliable service and high-quality water to our customers.

The NMB Water professionals have been working extremely hard throughout the pandemic to make sure our customers have potable water when they need it the most. Through the water demand increase and the CDC guidelines, we kept our customers and our professionals safe. Special thanks to the Public Utilities Commission, which acts as an advisory committee to the City's Mayor and Council regarding decisions on water utility rates, expansions and expenditures. We are committed to providing our customers with the highest quality water at a reasonable cost. We hope you use this report as a tool to learn more about the water you use daily.

Please contact us at **(305) 654-7137** or visit us online at **NMBWater.com** with any questions or concerns you may have about your water services.

Sincerely,

**Arthur H. Sorey III**  
City Manager  
City of North Miami Beach

**Samuel Zamacona, E.I.**  
Interim Director  
NMB Water





**We are pleased to present our 2020 Annual Water Quality Report. This report includes detailed information on the quality of water delivered to our customers between January 1, 2020 and December 31, 2020. On the following pages you will learn how our water quality met or surpassed all state and federal regulatory requirements in 2020.**

NMB Water professionals work around the clock to provide customers in northeastern Miami-Dade County with the best-tasting and highest-quality drinking water available.

The information shared in this report was prepared in accordance with the U.S. Environmental Protection Agency's regulations and the Safe Drinking Water Act. Reviewing this report will provide you with a better understanding of how our utility professionals continually improve the water-treatment process and protect our water sources.

Thank you for reviewing this important document. If you have any questions or concerns, please do not hesitate to contact us. Visit us online at [NMBWater.com](https://nmbwater.com) or call us at **(305) 654-7137**.

## **Source Water Assessment and Protection Program**

In 2020, the Florida Department of Environmental Protection (DEP) performed a Source Water Assessment on our system. The assessment was conducted to provide information about any potential sources of contamination in the vicinity of our wells. There are 12 potential sources of contamination identified for this system with low susceptibility levels. The assessment results are available on the DEP SWAPP website at <https://fldep.dep.state.fl.us/swapp/> or by contacting the Water Quality Manager at (305) 770-5125.

## **Sampling and Analysis**

NMB Water's staff collects and analyzes drinking water samples for numerous contaminants on an hourly, daily, monthly and annual basis. NMB Water's laboratory is state certified for the analysis in microbiology and ensures that the water delivered to our customers is of the highest quality possible. Water samples from 66 locations throughout the water service are tested twice per month. NMB Water is required to monitor for numerous of possible contaminants.

A summary of detected contaminants is listed on the table provided in this report. Our results are well within the regulatory standards set by the Florida Department of Environmental Protection (FDEP).



# Water Quality Data

The table in this report lists all the drinking water contaminants we detected during the 2020 calendar year. The presence of these 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 testing done January 1 through 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.



## Terms & Abbreviations

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

**LRAA** - Locational Running Annual Average - The average of sample analytical results for samples taken at a particular monitoring location during the previous four calendar quarters

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

**MCLG** - Maximum Contaminant Level Goal - 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

**MRDL** - Maximum Residual Disinfectant Level - The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for the control of microbial contaminants

**MRDLG** - Maximum Residual Disinfectant Level Goal - 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

**N/A** - Not Applicable

**RAA** - Running Annual Average

**ppm** - Parts per million or Milligrams per liter (mg/L) - one part by weight of analyte to 1 million parts by weight of the water sample

**ppb** - Parts per billion or Micrograms per liter (µg/L) - one part by weight of analyte to 1 billion parts by weight of the water sample

### Inorganic Contaminants

Contaminant and Unit of Measurement	Dates of Sampling (mo./yr)	MCL Violation (Y/N)	MCLG	MCL	Level Detected	Range of Results	Likely Source of Contamination
Fluoride (ppm)	01/01/2020 - 12/31/2020	N	4	4.0	0.88	0.16 - 0.88	Erosion of natural deposits; discharge from fertilizer and aluminum factories. Water additive which promotes strong teeth when at optimum level of 0.7 ppm
Barium (ppm)	02/2020	N	2	2	0.0030	0.0030	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Sodium (ppm)	02/2020	N	N/A	160	33	33	Salt water intrusion, leaching from soil
Arsenic (ppb)	02/2020	N	0	10	0.44	0.44	Erosion of natural deposits; runoff from orchards; runoff from glass and electronic production wastes

### Stage 1 Disinfectants and Disinfection Byproducts

For chloramines, the level detected is the highest running annual average (RAA), computed quarterly, of monthly averages of all samples collected. The range of results is the range of results of all the individual samples collected during the past year.

Contaminant and Unit of Measurement	Dates of Sampling (mo./yr)	MCL or MRDL Violation (Y/N)	MRDLG	MRDL	Level Detected	Range of Results	Likely Source of Contamination
Chlorine and Chloramines (ppm)	01/01/2020 - 12/31/2020	N	4	4.0	3.4	0.6 - 4.0	Water additive used to control microbes

### Stage 2 Disinfectants and Disinfection Byproducts

Contaminant and Unit of Measurement	Dates of Sampling (mo./yr)	MCL Violation (Y/N)	MCLG	MCL	Level Detected	Range of Results	Likely Source of Contamination
Haloacetic Acids (HAA5) (ppb) (a)	02/2020, 05/2020, 08/2020, 11/2020	N	N/A	60	13.5	6.9 - 14.8	By-product of drinking water disinfection
Total Trihalomethanes (TTHM) (ppb) (a)	02/2020, 05/2020, 08/2020, 11/2020	N	N/A	80	18.9	5.4 - 15.6	By-product of drinking water disinfection

### Lead and Copper (Tap Water)

Contaminant and Unit of Measurement	Dates of Sampling (mo./yr)	AL Exceeded (Y/N)	MCLG	AL (Action Level)	90th Percentile Result	No. of sampling sites exceeding AL	Likely Source of Contamination
Copper (tap water) (ppm) (b)	06/2018	N	1.3	AL = 1.3	0.06	0 (No homes exceeding AL)	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead (tap water) (ppb) (b)	06/2018	N	0	AL = 15	2.1	1 home out of 55 exceeded AL	Corrosion of household plumbing systems; erosion of natural deposits.

### Legend

(a) A total of 2 samples per quarter was collected under Stage 2 D/DBP Rule for Total Trihalomethanes and Haloacetic Acids 5, the highest LRAA (locational Running Annual Average) level detected and the range of individual results reported.

(b) 90th percentile value reported. If the 90th percentile value does not exceed the AL (less than 10% of the homes have levels above the AL), the system is in compliance and uses the prescribed corrosion control measures. Lead and copper monitoring is reduced from annually to once every three years approved by the Florida Department of Health, last available data is from year 2018.

## About Lead

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. NMB Water 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: [epa.gov/safewater/lead](https://www.epa.gov/safewater/lead).

## Public Participation

NMB Water promotes water conservation and education through community outreach. We partner with local schools and participate in community events to encourage conservation. To learn more about water conservation and education, visit our conservation page at [NMBWater.com](https://www.nmbwater.com).

We encourage our customers to be informed about their water utility. You can learn more about plans for the utility by attending monthly meetings of the Public Utilities Commission. Public Utilities Commission meetings are normally held the second Wednesday of each month in the North Miami Beach City Hall, second floor, Commission Chambers, 17011 NE 19th Avenue, at 6 p.m. Please call (305) 948-2967 (ext. 7975) to confirm.

## About Contaminants

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.

Contaminants that may be present in source water include:

**(A) Microbial contaminants**, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

**(B) 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.

**(C) Pesticides and herbicides**, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.

**(D) 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.

**(E) Radioactive contaminants**, which 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, the EPA prescribes regulations, which limit the

amount of certain contaminants in water provided by public water systems. The Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water, which must provide the same protection for public health. 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 (800) 426-4791**.

## Vulnerable Populations

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 the Safe Drinking Water Hotline (800) 426-4791.



**Safe Drinking  
Water Hotline  
(800) 426-4791**





## Contact Us

For questions about this report, call the Water Quality Manager at (305) 654-7137. To learn more about NMB Water, visit us on our website at [NMBWater.com](http://NMBWater.com).

**NMB Water**  
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