



Town of Ocean Isle Beach Water Quality Report 2021

PWS ID # 04-10-035

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

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemo-therapy, 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).

The Town of Ocean Isle Beach purchases water from the county. County water comes from two sources, the Cape Fear River and groundwater from the Castle Hayne Aquifer. The Northwest Water Treatment Plant in Leland treats the water from the Cape Fear River. Their second source is utilized by the 211 Water Treatment Plant in Southport. Fourteen (14) different groundwater wells are tapped into the Castle Hayne Aquifer approximately 175 ft. below the ground's surface

We are pleased to present to you this year's Annual Water Report. This

report 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. Our water source is the Northeast Cape Fear River above Lock and Dam #1 at the Kings Bluff Pumping Station and Castle Hayne Aquifer. We are pleased to report that our drinking water is safe and meets Federal and State requirements. We have a source water protection plan available from our office that provides more information, such as potential sources of contamination. If you have any questions about this report or concerning your water utility, please contact Adam Sellers, Utility Systems Superintendent, at (910) 579-2166 or by fax at (910) 579-8804. We want our valued customers to be informed about their water quality.

The NC Water Assessment Program (SWAP)

The North Carolina Department of Environment and Natural Resources (DENR), Public Water Supply (PWS) Section, Source Water Assessment Program (SWAP) conducted assessments for all drinking water sources across North Carolina. The purpose of the assessments was to determine the susceptibility of each drinking water source (well or surface water intake) to Potential Contaminant Sources (PCSs). The results of the assessment are available in SWAP Assessment Reports that include maps, background information and a relative susceptibility rating of Higher, Moderate, or Lower.

The relative susceptibility rating of each source for Town of Ocean Isle Beach was determined by combining the contaminant rating (number and location of PCSs within the assessment area) and the inherent vulnerability rating (i.e., characteristics or existing conditions of the well or watershed and its delineated assessment area). The assessment findings are summarized in the table below:

Susceptibility of Sources to Potential Contaminant Sources (PCSs)

Source Name	Susceptibility Rating	SWAP Report Date
Cape Fear River	Moderate	September 10, 2020
Well # 1,2,15,16,17	Lower	September 10, 2020
Well # 3,11,12,12A,18,19	Moderate	September 10, 2020
Well # 5,6A	Higher	September 10, 2020

The complete SWAP Assessment Report for the Town of Ocean Isle Beach (Brunswick County) Water System may be viewed on the Web at: <http://www.ncwater.org/?page=600> Note that because SWAP results are periodically updated by the PWS Section, the results available on this web site may differ from the results that were available at the time this CCR was prepared. If you are unable to access your SWAP report on the web, you may mail a written request for a printed copy to: Source Water Assessment Program-Report Request, 1634 Mail Service Center, Raleigh, NC 27699-1634, or email request to swap@ncdenr.gov. Please indicated your system name, number, and provide your name, mailing address and phone number. If you have any questions about the SWAP report please contact the Source Water Assessment staff by phone at (919) 707-9098.

It is important to understand that a susceptibility rating of "higher" does not imply poor water quality, only the system's potential to become contaminated by PCSs in the assessment area.

Sources of Drinking Water

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.

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

Lead and Copper

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. Ocean Isle Beach 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>.

Town of Ocean Isle Beach “Consumer Confidence Report Data” Water Quality Results For 2021

We routinely monitor for contaminants in your drinking water according to Federal and State laws. The table below lists the results drinking water contaminants that we detected in the last round of sampling for the particular contaminant group. The presence of contaminants does not necessarily indicate that water poses a health risk. **Unless otherwise noted, the data presented in this table is from testing done January 1 through December 31, 2021.** The EPA or 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.

Listed below are the results of water quality sampling performed for Ocean Isle Beach from January 1, 2021, to December 31, 2021. Questions and Comments contact; Adam Sellers, Utility Systems Superintendent, 910-579-2166.

Microbiological						
Contaminants (units)	EPA's MCL	MCLG	Level Detected	Unit Measurement	Violation Y/N	Source of Contaminant
Total Coliform Bacteria (presence or absence)	5% of Monthly samples are positive	0	ND		N	Naturally present in the environment
Asbestos (12-20-2021)	Non-Regulated	7 MFL	ND <0.2	MFL	N	Decay of asbestos cement water mains; erosion deposits

Lead and Copper	MCL Action Level			# of Samples above the AL		
Lead (PPM) 90 th percentile (9-30-20)	0.015ppm	0ppm	90% of samples are 0.0000	0	N	Corrosion of household plumbing; erosion deposits
Copper 90 th percentile (9-30-20)	1.3ppm	1.3ppm	90% of samples are <0.115	0	N	Corrosion of household plumbing; erosion deposits

ORGANIC CHEMICALS	EPA's MCL		Average		Range			
			B01	B02	Low	High		
Total Trihalomethanes 3-4-2021, 6-2-2021, 9-1-2021, 12-1-2021	80ppb	N/A	38 ppb	41 ppb	0.025	0.057	N	By-product of drinking water chlorination
Total Haloacetic Acids 3-4-21, 6-2-2021, 9-1-2021, 12-1-2021	60ppb	N/A	22 ppb	21 ppb	0.011	0.029	N	By-product of drinking water chlorination

Disinfectant Residuals Summary							
	Year Sampled	MRDL Violation Y/N	Your Water (highest RAA)	Range Low - High	MRDLG	MRDL	Likely Source of Contamination
Chlorine (ppm)	2021	N	1.00	0.04 - 2.4	4	4.0	Water additive used to control microbes
Chloramines (ppm)	2021	N	2.38	1.4 - 3.3	4	4.0	Water additive used to control microbes

Terms & abbreviations used below:

- **Maximum Contaminant Level Goal (MCLG):** 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.
- **Maximum Contaminant Level (MCL):** 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.
- **Action Level (AL):** the concentration of a contaminant which, when exceeded, triggers N/A: not applicable • **nd:** not detectable at testing limit • **ppb:** parts per billion or micrograms per liter • **ppm:** treatment or other requirements which a water system parts per million or milligrams per liter • **pCi/l:** Pico-curies must follow. per liter (a measure of radiation) • **MFL :** Million fibers per liter is a measure of the presence of asbestos fibers that are longer than 10 micrometer
- **Maximum Residual Disinfection Level (MRDL)** – The highest level of disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.
- **Maximum Residual Disinfection 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.

Please note that the Town of Ocean Isle Beach purchases water from Brunswick County Public Utilities. For a complete view of Brunswick Counties’ Water Quality Report please visit their website at

http://www.brunswickcountync.gov/Portals/0/bcfiles/Water_Report_2021_Final.pdf

Please visit our web page for water conservation information and a copy of this report. www.oibgov.com

<i>The Town is proud to report that our drinking water meets or exceeds all Federal and State standards.</i>	The Public Utilities Department would like to let you know that we are here to serve you with any of your water needs 24 hours a day. If you plan to dig you will need to contact the NC 811 ONE CALL service for locates. If you have questions about this report or any water quality issues, please contact our office at (910) 579-2166; we will be glad to work with you to solve any water issues. For after-hours emergencies, call (910)547-3351 for assistance.
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