



The Town of Manteo 2015 Annual Drinking Water Consumer Quality Report Town of Manteo Water System PWS ID# 04-28-020

We are pleased to present to you this year's Annual Consumer Quality Report. This report is a snapshot of last year's water quality. Included are details about the source of your water, what it contains, and how it compares to standards set by regulatory agencies.

The water that is used by this system is purchased from the Dare County Water Department located at the Skyco Water Treatment Facility. The Town of Manteo controls the water distribution system that delivers the water to your house.

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 believe informed customers are our best allies.

What EPA Wants You to Know

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 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).

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 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 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 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 agriculture, urban storm water 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 storm water runoff, and septic systems; and 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, 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.

Source Water Assessment Program (SWAP) Results

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 the Manteo 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 above and to the right: (*see arrow*)

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.

Source Name	Susceptibility Rating
Skyco Well #2,4,5,6, 10,13	Lower
Skyco Well #7	Moderate

The complete SWAP Assessment report for the Town of Manteo may be viewed on the Web at:

www.ncwater.org/pws/swap.

Note that because SWAP results and reports 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 requests to swap@ncdenr.gov. Please indicate 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.

Help Protect Your Source Water

Protection of drinking water is everyone's responsibility. You can help protect your community's drinking water source(s) in several ways: (examples: dispose of chemicals properly; take used motor oil to a recycling center, volunteer in your community to participate in group efforts to protect your source, etc.).

Sampling Results:

DRINKING WATER: (7/1/14 — 6/30/15)

We routinely monitor for over 150 contaminants in our drinking water according to Federal and State laws. These tables list all the drinking water contaminants that we detect-ed 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. 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.

Important Drinking Water Definitions:

Non-Detects (ND) - Laboratory analysis indicates that the contaminant is not present at the level of detection set for the particular methodology used.

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.

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 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 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 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.

Maximum Residual Disinfection 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.

Locational Running Annual Average (LRAA) - The average of sample analytical results for samples taken at a particular monitoring location during the previous four calendar quarters under the Stage 2 Disinfectants and Disinfection Byproducts Rule.

Stage 2 Disinfection Byproduct Compliance - Based upon Locational Running Annual Average (LRAA)							
Disinfection Byproduct	Year Sampled	MCL Violation Y/N	Your Water Highest LRAA	Range Low High	MCLG	MCL	Likely Source of Contamination
TTHM (ppb)	7/1/14—6/30/15	N	80	30—120	N/A	80	Byproduct of drinking water disinfection.
Location B01	See above	Y	77	30—110			
Location B02	See above	Y	80	30—120			
HAA5 (ppb)	7/1/14—6/30/15	N	20	7—30	N/A	60	Byproduct of drinking water disinfection.
Location B01	See above	N	20	10—30			
Location B02	See above	N	19	7—30			

The Town of Manteo is now collecting Stage 2 samples on a quarterly basis after sample results came back above the MCL at both locations taken September 2014.

Some people who drink water containing trihalomethanes (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.

Disinfectant Residuals Summary							
Contaminant (units)	Year Sampled	MCL Violation Y/N	Your Water Highest RAA	Range Low High	MRDLG	MRDL	Likely Source of Contamination
Chlorine (ppm)	7/1/14—6/30/15	N	.22	.01 — .62	4	4	Water additive used to control microbes.

Microbiological Contaminants					
Contaminant (units)	MCL Violation Y/N	Your	MCLG	MCL	Likely Source of Contamination
Total Coliform Bacteria	N	Absent	0	one positive monthly sam-	Naturally present in the environment

Lead and Copper Contaminants						
Contaminant (units)	Sample Date	Your Water	# of sites found above the AL	Likely Source of Contamination	MCLG	MCL
Copper (ppm) (90th percentile)	SEP 2014	.18	0	Corrosion of household plumbing systems, erosion of natural deposits	1.3	AL=1.3
Lead (ppb) (90th percentile)	SEP 2014	8	1	Corrosion of household plumbing systems, erosion of natural deposits	15	AL=15

If you have any questions about this report or concerning your water or sewer utilities, please contact us at **(252) 473-2133**.

www.townofmanteo.com