

NAVAL STATION NORFOLK & NSA HAMPTON ROADS, HEADQUARTERS COMPLEX NORFOLK, VIRGINIA 2020 CONSUMER CONFIDENCE REPORT



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For additional information:

City of Norfolk Division of Water Quality 757-441-5678 http://www.norfolk.gov/ utilities/quality/default.asp

Virginia Department of Health 757-683-2000 http://www.vdh.virginia.gov/ drinking-water/

USEPA Safe Drinking Water Hotline 800-426-4791 http://www.epa.gov/ safewater/

NSN/NSA HR HQ Complex Public Works Department Environmental 757-341-0523/757-836-1862

The source of NSN/NSA's drinking water includes eight reservoirs, two rivers, and four deep wells.



Naval Station Norfolk and Naval Support Activity Hampton Roads, Headquarters Complex (NSN & NSA HR HQ Complex) are committed to providing you drinking water that is safe and reliable. NSN & NSA HR HQ Complex believe that providing you with accurate information about your water is the best way to assure that your water is safe. There were no drinking water violations to report for 2020.

Each year, the Consumer Confidence Report (CCR) is required to be distributed by July 1st of the current year. This CCR is a snapshot of the quality of your drinking water in 2020. The purpose of this annual report is to advise consumers of where their water comes from, provide water quality data, advance greater understanding of drinking water, and heighten awareness to conserve water resources.

NSN & NSA HR HQ COMPLEX SOURCE WATER

NSN & NSA HR HQ Complex purchase drinking water from the City of Norfolk. Norfolk's primary water supply comes from eight reservoirs located in Norfolk as well as Suffolk/Isle of Wight County. Additionally, water sources include the Blackwater, and Nottoway Rivers and four deep wells located in Suffolk. From the reservoirs, water is pumped through pipes to the 37th Street Treatment Plant which is located in Norfolk. Water treatment chemicals are added to the water, causing small solid particles to clump together and sink to the bottom of a settling basin. The water is then filtered to remove bacteria, algae, and other impurities. Finally, the water is disinfected with chloramines to kill any remaining bacteria. The 37th Street Water Treatment Plant provides state of the art treatment technology and surpasses all state and federal water quality standards and regulations. In addition to the over 230 substances that are tested at the 37th Street Treatment Plant, Naval Station staff routinely monitors for bacteriological pathogens, disinfection byproducts, lead, and copper in order to meet federal and state regulations and to ensure the highest water quality possible.

ABOUT 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. Substances (referred to as contaminants) in source water may come from septic systems, discharges from domestic or industrial wastewater treatment facilities, agricultural and farming activities, urban storm water runoff, residential uses, and many other types of activities. Water from surface sources is treated while groundwater may or may not receive any treatment.

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 may 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 may come from gas stations, urban storm water runoff, and septic systems.

Radioactive contaminants, which may be naturally occurring, or the result of oil and gas production and mining activities.

In addition to these contaminants, all lakes and streams contain algae, which are microscopic plants that can cause taste and odor problems in drinking water. All 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 (EPA) Safe Drinking Water Hotline (800-426-4791).

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ABOUT DRINKING WATER (continued)

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. The Food and Drug Administration (FDA) establishes limits for contaminants in bottled water, which must provide the same protection for public health.

Who needs to take special precautions?

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune systems 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/Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the EPA's Safe Drinking Water Hotline (800-426-4791). Kidney dialysis patients should consult with their health care providers or dialysis centers in order to take special precautions when using chloraminated water.

Fish owners should be sure chloramines are removed from the water before it is used in aquariums or ponds. Many pet stores sell water conditioners for chloraminated water.

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. The primary source of Lead in drinking water is materials and components associated with service lines and home plumbing. NSN & NSA HR HQ Complex are responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components in buildings. 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 or until it becomes cold or reaches a steady temperature before using water for drinking or cooking. If you have questions about your water, please contact NSN/NSA HR Environmental at 757-341-0523/757-836-1862. 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.

DEFINITIONS AND ABBREVIATIONS

Contaminants in your drinking water are routinely monitored according to Federal and State regulations. The table on the following pages shows the results of monitoring for 2020. In the tables and elsewhere in this report you may find many terms and abbreviations which you are not familiar. The following definitions are provided to help you better understand these terms:

- Action Level (AL) The concentration of a contaminant that, if exceeded in more than 10 percent of samples collected during any monitoring period, triggers treatment or other requirements which a water system must follow. For lead and copper monitoring, compliance is based on the 90th percentile value.
- Level 1 Assessment A Level 1 assessment is a study of the waterworks to identify potential problems and determine, if possible, why total coliform bacteria have been found in our waterworks.
- Level 2 Assessment A level 2 assessment is a very detailed study of the waterworks to identify potential problems and determine, if possible, why
 an *E. Coli* PMCL violation has occurred and why total coliform bacteria have been found in our waterworks on multiple occasions.
- Maximum Contaminant Level (MCL) The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to 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 Disinfectant Level (MRDL) The highest level of a disinfectant allowed in drinking water based on running annual average. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants. For chlorine and chloramines, a waterworks is in compliance with the MRDL when the running annual average of monthly averages of samples taken in the distribution system, computed quarterly, is less than or equal to the MRDL.
- 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 contamination.
- NA Not applicable
- Nephelometric Turbidity Unit (NTU) A measure of the clarity, or cloudiness, of water. Turbidity in excess of 5 NTU is just noticeable to the average person. Turbidity is monitored because it is a good indicator of the effectiveness of the filtration system.
- Non-detection (ND) Laboratory analysis indicates that the contaminant is not present.
- Picocuries per liter (pCi/L) A measure of the radioactivity in water.
- Parts per million (ppm) or Milligrams per liter (mg/L) A measurement of the amount of contaminant per unit of water. A part per million is one cent in \$10,000 or one minute in two years.
- Parts per billion (ppb) or Micrograms per liter (ug/L) A measurement of the amount of contaminant per unit of water. A part per billion is like one cent in \$10,000,000 or one minute in 2,000 years.
- Secondary Maximum Contaminant Level (SMCL) Non-enforceable standard that is established for aesthetic considerations
- Treatment Technique (TT) A required process intended to reduce the level of a contaminant in drinking water.

WATER QUALITY DATA

The tables below list only those contaminants that were present in your drinking water at levels detectable by laboratory equipment. Unless otherwise noted, the data presented in these tables is from testing done in 2020. We are required to monitor for certain contaminants less than once per year because the concentrations of these contaminants are less likely to change. The presence of contaminants in the water does not necessarily indicate that the water poses a health risk. The EPA sets the Maximum Contaminant Levels (MCLs) and the Maximum Contaminant Level Goals (MCLGs) as listed in the tables. The Regulated Substances Table and the Unregulated Substances Table are provided for your information and as required by the Consumer Confidence Rule.

2020 Consumer Confidence Report Naval Station Norfolk/Naval Support Activity Hampton Roads Page 3 June 2021 2020 WATER QUALITY TABLE

Populated Subst													
Regulated Substa	ances	Unit	MCLO	G MC	CL.	Highest Level	Averag	e Level	Rai	ıge	Meets EF Standard		Possible Source of Contamination
Atrazine		ppb	3	з		0.07	N	D	ND -	0.07	Yes		Agricultural Runoff
Barium		ppm	2	2	!	0.05	0.	03	0.03 -	- 0.05	Yes		Erosion of natural deposits
luoride		ppm	4	4		0.7 ¹	0	.6	0.1	-0.9	Yes		Added for the prevention of tooth decay
Gross Beta		pCi/L	0	50)2	3	;	3	;	3	Yes		Erosion of natural deposits
Nitrate as Nitrogen ppm		10	10		0.28	0.	0.16 0.04		-0.28	Yes		Erosion of natural deposits—runoff	
Highest monthly	average f	for calenda	ar year ² E	EPA consid	ers 50 pC	i/L to be the	e level of	concern fo	or Beta p	articles			
			EPA	Limits			Your Dri	n king Wa	ter				
-EAD AND COPP AT INSTALLATI TAP)		Units	MCLG	AL	Sample	es Above A	L 90 th	PERCENTI	LE	Meets El Standare)escri	ption/Typical Sources of Contaminants
ead (2019 data)		ppb	0	15	2	2 of 30		3		Yes			of household plumbing Erosion of natural deposits
Copper (2019 data	a)	ppm	1.3	1.3	() of 30		0.195		Yes		Corrosion of household plumbing systems; Erosion of natural deposits	
* Naval Station No vill be in 2022.	orfolk is o	n a triennia	al monitor	ing schedu	le for Lea	d and Copp	er. The f	requency	of sampl	ing is once	every thre	e yea	rs. The next sampling even
licrobiological contaminants		Unit		MCLO	;	MCL		Repor Leve		Meets EP Standard			Possible Source of Contamination
						E0(0.2% Yes			Naturally present in the environment	
otal Coliform	% 0	of positive s	samples	0	Sa	5% of mo amples are		0.2%	o D	Yes	Na	turally	present in the environmen
Total Coliform E. Coli	# of	f positive s	amples	0		amples are *	positive	0		Yes	Hu	man a	and animal fecal waste
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Additional Information*	Unit	Average Level	Range			
Alkalinity	ppm	26	13-39			
Ammonia	ppm	0.1	ND-0.9			
Hardness	ppm	42 ¹	28-61			
Silica	ppm	5	3-6			
*The substances listed above are not regulated by the EPA: however, this information is provided as a service to our customers. ¹ Norfolk's water						

*The substances listed above are not regulated by the EPA; however, this information is provided as a service to our customers. 1 Norfolk's water averages in the range between soft and slightly hard. This means there is enough hardness for soaps and detergents to work properly, yet not too much to interfere with most industrial applications. To find grains per gallon, divide ppm value by 17.

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Unregulated Contaminant Monitoring Rule 4 (UCMR4)	Unit	Reference Concentration	Highest Level	Average Level	Range	Likely Source
Manganese	ppb	300	12.3	7.2	3.8-12.3	Natural in the environment
Bromochloroacetic Acid	ppb	NA	2.91	1.44	ND-2.91	Drinking water disinfectant by- product
Bromodichloroacetic Acid	ppb	NA	5.10	2.00	ND-5.10	Drinking water disinfectant by- product
Chlorodibromoacetic Acid	ppb	NA	0.548	0.29	ND-0.548	Drinking water disinfectant by- product
Dibromoacetic Acid	ppb	60	0.374	0.03	ND-0.374	Drinking water disinfectant by- product
Dichloroacetic Acid	ppb	60	28.0	8.73	ND-28.0	Drinking water disinfectant by- product
Monobromoacetic Acid	ppb	60	0.325	0.03	ND-0.325	Drinking water disinfectant by- product
Monochloroacetic Acid	ppb	60	ND	ND	ND-ND	Drinking water disinfectant by- product
Tribromoacetic Acid	ppb	NA	ND	ND	ND-ND	Drinking water disinfectant by- product
Trichloroacetic Acid	ppb	60	21.8	9.43	ND-21.8	Drinking water disinfectant by- product

UCMR Reference Concentration = The reference concentrations are based on publicly-available health information found in the following EPA resources: 2018 Edition of the Drinking Water Standards and Health Advisories Tables [i.e., Health advisories (HA)], the CCL 4 Contaminant Information Sheets [i.e., Health Reference Levels (HRLs)], and the Human Health Benchmark for Pesticides (i.e., HHBPs). The primary sources of the health information used to derive the guideline values in the resources referenced above are peer-reviewed assessments from EPA or other governmental agencies. The reference concentrations are subject to change as new health assessments are completed. Reference Concentrations are not legally enforceable federal standards.

Unregulated Contaminant Monitoring Rule: EPA uses the Unregulated Contaminant Monitoring (UCM) program to collect data for contaminants suspected to be present in drinking water, but that do not have health-based standards set under the Safe Drinking Water Act (SDWA). Every five years EPA reviews the list of contaminants and selects no more than 30 for a nationwide drinking water survey to provide occurrence data for potential future regulation. The final sampling for UCMR4 occurred in August 2020. For more information on the UCMR program, visit EPA online at: https://www.epa.gov/dwucmr/fourth-unregulated-contaminant-monitoring-rule

Secondary and Unregulated Monitored Substances	Unit	SMCL	Highest Level	Average Level	Range	Likely Source
Aluminum	ppm	0.20	0.05	0.02	0.01-0.05	Erosion of natural deposits; also from use of chemicals at water treatment plant
Chloride	ppm	250	21	16	12-21	Natural in environment
Foaming Agents	ppb	500	13	7	5-13	Natural in the environment
Iron	ppm	0.30	0.04	ND	ND-0.04	Natural in environment
pH (acidity)	pH units	6.5-8.5	7.7 ¹	7.7	7.4-7.9	Adjusted during water treatment process
Sodium	ppm	n/a ²	22	14	10-22	Natural in environment; also from use of chemicals at water treatment plant
Sulfate	ppm	250	34	27	24-34	Natural in environment; also from use of chemicals at water treatment plant
Total Dissolved Solids	ppm	500	120	83	39-120	Natural in environment
Zinc	ppm	5	0.46	0.20	0.01-0.46	Natural in environment; also from use of chemicals at water treatment plant

¹ Highest monthly average for calendar year ² For physician-prescribed "no salt diets" a limit of 20 ppm is suggested.

VIOLATIONS AND EXCEEDANCES

There were no drinking water violations to report for 2020.

QUESTIONS Please contact NSN Environmental staff at 757-341-0431 and NSA HR HQ Complex Environmental staff at 757-953-5657 if you have any questions regarding this report. To access this report electronically, please visit the Commander, Navy Region Mid-Atlantic website at: <u>http://www.cnic.navy.mil/regions/cnrma/om/environmental_support/water_quality_information.html</u>