

Oakwood Hills Water System

PWS ID: NC0363151

Annual Water Quality Report 2018

Message from Catherine Heigel, President

Dear Customers.

Carolina Water Service, Inc. of North Carolina is the contract operator of your water system. I am pleased to share your Annual Water Quality Report for 2018. This report is designed to inform you of the quality of water we delivered to you over the past year.

As your community water utility, we fully appreciate our role in the local community and are committed to providing safe, reliable and cost-effective service to you. All of our employees share in this commitment and strive to serve you with integrity and professionalism.

We are proud to share this report which provides water quality testing results through December 2018. We continually work to supply water that meets or exceeds all federal and state water quality regulations.

Our dedicated local team of water quality experts is working in the community everyday ensuring that you, our customer, are our top priority and that we are providing high quality service that protects the environment and benefits our communities - now and in the years to come.

Best regards,

Cotherine E Heigel

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www.carolinawaterservicenc.com

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Source of Drinking Water

Your water is purchased from the Town of Southern Pines. which draws surface water from Drowning Creek.

Water Conservation

Please be reminded that our water systems in North Carolina are always in some stage of either voluntary or mandatory water conservation restriction. restrictions may vary weekly due to drought conditions and are dictated by a system established by the North Carolina Utilities Commission in an order dated May 23, 2008. The customers are encouraged to keep informed of current restrictions by visiting www.carolinawaterservicenc.com and clicking on the "Community Drought Status" link on the front page or call our customer service at (800) 525-

Help Protect our Resources

Help put a stop to the more than 1 trillion gallons of water lost annually nationwide due to household leaks. These easy to fix leaks waste the average family the amount of water used to fill a backyard swimming pool each year. Plumbing leaks can run up your family's water bill an extra 10 percent or more, but chasing down these water and money wasting culprits is as easy as 1-2-3. Simply check, twist, and replace your way to fewer leaks and more water savings:

- ⇒ Check for silent leaks in the toilet with a few drops of food coloring in the tank, and check your sprinkler system for winter damage.
- ⇒ Twist faucet valves; tighten pipe connections; and secure your hose to the spigot. For additional savings, twist a WaterSense labeled aerator onto each bathroom faucet to save water without noticing a difference in flow. They can save a household more than 500 gallons each year-equivalent to the amount water used to shower 180 times!
- ⇒ Replace old plumbing fixtures and irrigation controllers that are wasting water with WaterSense labeled models that are independently certified to use 20 percent less water and perform well.

For more information visit www.epa.gov/watersense.

We ask that all our customers help us protect our water sources which are the heart of our community, our way of life and our children's future.

Este informe contiene información muy importante sobre su agua beber. Tradúzcalo ó hable con alguien que lo entienda bien.

EPA Wants You To Know

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.

What measures are in place to ensure water is safe to drink?

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 place: provide the same protection for public health.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some . Put strainers in sink drains to catch food scraps / solids The presence of contaminants does not contaminants. 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).

Special notice from EPA for the elderly, infants, cancer patients and people with HIV/AIDS or other immune system problems

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised persons such as persons with cancer persons chemotherapy, undergoing 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).

Information Concerning Lead in Water

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. Carolina Water Service, Inc. of North Carolina 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

www.epa.gov/safewater/lead.

Water that remains stationary within your home plumbing for extended periods of time can leach lead out of pipes joined with lead-containing solder as well as brass fixtures or galvanized pipes. Flushing fixtures has been found to be an effective means of reducing lead levels. The flushing process could take from 30 seconds to 2 minutes or longer until it becomes cold or reaches a steady temperature. Faucets, fittings, and valves, including those advertised as "lead-free," may contribute lead to drinking water. Consumers should be aware of this when choosing fixtures and take appropriate precautions. Visit the NSF Web site at www.nsf.org to learn more about lead-containing plumbing fixtures.

Drain Disposal Information

Sewer overflows and backups can cause health hazards, damage home interiors, and threaten the environment. A common cause is sewer pipes blocked by grease, which gets into the sewer from household drains. Grease sticks to the insides of pipes. Over time, the grease can build up and block the entire pipe. Help solve the grease problem by keeping this material out of the sewer system in the first

- Never pour grease down sink drains or into toilets. Scrape grease into a can or trash.
- for disposal.

Prescription Medication and Hazardous Waste

Household products such as paints, cleaners, oils, and pesticides, are considered to be household hazardous Prescription and over-the-counter drugs poured down the sink or flushed down the toilet can pass through the wastewater treatment system and enter rivers and lakes (or leach into the ground and seep into groundwater in a septic system). Follow the directions for proper disposal Do not flush hazardous waste or procedures. prescription and over-the-counter drugs down the toilet or drain. They may flow downstream to serve as sources for community drinking water supplies. Many communities offer a variety of options for conveniently and safely managing these items. For more information, visit the EPA website at: www.epa.gov/hw/household-hazardous-waste-

The Safe Drinking Water Act was passed in 1974 due to congressional concerns about organic chemical contaminants in drinking water and the inefficient manner by which states supervised and monitored drinking water supplies. Congress' aim was to assure that all citizens served by public water systems would be provided high quality water. As a result, the EPA set enforceable standards for health-related drinking water contaminants. The Act also established programs to protect underground sources of drinking water from contamination.

Understanding This Report In order to help you understand this report, we want you to understand a few terms and abbreviations that are contained in it.

Action level (AL)	The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.
EPA	Environmental Protection Agency.
Maximum Contaminant Level (MCL)	The highest level of a contaminant that is allowed in drinking water. MCL's are set as close to the MCLG's as feasible using the best available treatment technology.
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 health. MCLG's allow for a margin of safety.
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.
Not applicable (N/A)	Not applicable.
Not Detected (ND)	This means not detected and indicates that the substance was not found by laboratory analysis.
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.
Picocuries per liter (pCi/L)	A measure of radioactivity in the water.
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.
Running Annual Average (RAA)	Calculated running annual average of all contaminant levels detected.

Source Water Assessment Program (SWAP)

susceptibility of each drinking water source (well or surface Assessment staff by phone at 919-707-9098. water intake) to Potential Contaminant Sources (PCSs). The results of the assessment are available in SWAP Assessment Reports that include maps, background system's potential to become contaminated by PCSs in the information and a relative susceptibility rating of Higher, assessment area. Moderate or Lower.

The relative susceptibility rating of each source for Monitoring Your Water Oakwood Hills and the Town of Southern Pines was We routinely monitor for determined by combining the contaminant rating (number drinking water according to 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.). summarized in the table below:

Susceptibility of Sources to Potential Contaminant Sources (PCSs)

Source Name	Susceptibility Rating	SWAP Report Date		
Wells + Drowning Creek	Moderate	9/13/2017		

The complete SWAP Assessment report for Oakwood Hills and the Town of Southern Pines may be viewed on the Web at: www.ncwater.org/?page=600. 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, The North Carolina Department of Environmental Quality 1634 Mail Service Center, Raleigh, NC 27699-1634, or (DEQ), Public Water Supply (PWS) Section, Source Water email requests to swap@ncdenr.gov. Please indicate your Assessment Program (SWAP) conducted assessments for system name, number, and provide your name, mailing all drinking water sources across North Carolina. The address and phone number. If you have any questions purpose of the assessments was to determine the about the SWAP report please contact the Source Water It is important to understand that a susceptibility rating of "higher" does not imply poor water quality, only the

We routinely monitor for over 150 contaminants in your drinking water according to Federal and State laws. The tables below list all the drinking water contaminants that we detected in the last round of sampling for each particular contaminant group. The presence of contaminants does The assessment findings are 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, 2018. The EPA and the State allow 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.

If You Have Questions Or Want To Get Involved

Carolina Water Service, Inc. of North Carolina does not hold regular public meetings. If you have any questions about this report or concerning your water, or would like a company representative to attend an upcoming association meeting, homeowners please Customer Service at 1-800-525-7990.

	als Summ	ary										
Contaminant (units)	Year Sample	ed Vio	RDL ation //N	Your Water (highest R		Ra Low	nge High	MRDI	G MRDL	Likely Source of Contamination		
Chlorine (ppm)	2018	N		1.22		0.04	-2.95	4	4.0	Water additive used to control microbes		
Chloramines (ppm)	2018		N	2.67		1.91-3.2		4	4	Water additive used to control microbes		
Stage 2 Disinfection	Byprodu	ct Con	nplia	nce - Bas	ed u	pon Lo	cational l	Runnin	g Annual A	Iverage (LRAA)		
Disinfection Byproduct	year Sampled		CL ation '/N	Your Water (highest LRAA)		Range Low High		MCL	G MCL	Likely Source of Contamination		
THM (ppb) B01	2018		N	33.50		16.00	0-55.00	N/A	80	Byproduct of drinking water disinfection		
TMH (ppb) B02	2018		N	36.25		16.00	0-57.00	N/A	80	Byproduct of drinking water disinfection		
HAA5 (ppb) B01	2018		N	39.00		29.0	0-46.00	N/A	60	Byproduct of drinking water disinfection		
HAA5 (ppb) B02	2018		N	41.00		30.0	0-48.00	N/A	60	Byproduct of drinking water disinfection		
ead and Copper C	ontaminar	its										
Contaminant (units)	Sample Date	Your Water	sit	umber of es found ove the AL	M	CLG	AL		Lil	ely Source of Contamination		
Copper (ppm) 90 th percentile)	2017	0.114		0		1.3	AL=	1.3		orrosion of household plumbing systems; osion of natural deposits.		
Compound & Unit Regul		wed by ulation	ed by Contaminant Level Goal		nt	Maximum Detected by Southern Pines			Range High - Lov	Major Source of Compound		
licrobiological Contam		ICL)	_	(MGLG)					wary thro	ugh December 2018		
ilcrobiological Contain		1 NTU		N/A			0.18	Jai	0.18 - 0.02			
urbidity, NTU*	perce samp	T = ntage o les <0.3 ITU	f	N/A		1	00%					
f the filter treatment syst	of the cloudine em. The turbi n (TOC)	ess of th	e wate requi	er. The Tov res that 95	wn m % or	more o	Turbidit	onthly	samples m	good indicator of the effectiveness just be below 0.3 NTU. ugh December 2018		
		TT		N/A		1	.16***		1.31 - 0.93	Naturally present in the envi- ronment		
**Running Annual Avera otal Organic Carbon (TO Removal Ratio – Treated					(00)	as the	method	used t	to comply of	with disinfectants/disinfection by		
**Running Annual Avera total Organic Carbon (TC temoval Ratio – Treated Vater he water system used th	DC) ne removal of	Total O	ganic	: Carbon (T : removal ra	atio i	s requi	red to be	great	ci ulali i.c).		
*Running Annual Avera otal Organic Carbon (TC temoval Ratio – Treated later he water system used the roduct treatment technic	DC) ne removal of ue requireme	Total On nts. The	ganic TOC	Carbon (T removal ra	atio i	s requi	red to be			ugh December 2018		
**Running Annual Avera total Organic Carbon (TC temoval Ratio – Treated Vater he water system used the roduct treatment technic norganic Contaminant	ne removal of ue requireme s	Total Onts. The	rganic TOC	c Carbon (T removal ra	atio i	s requi	1.0			ugh December 2018 Water additive which promote		
**Running Annual Avera lotal Organic Carbon (TC temoval Ratio – Treated Vater he water system used the roduct treatment technic norganic Contaminant fluoride, mg/l	ne removal of ue requireme s	nts. The	rganio TOC	removal ra	atio i	s requi	red to be	Jar	1.0 - 0.7	ugh December 2018 Water additive which promote strong teeth; erosion of natura deposits; discharge from ferti-		
Total Organic Carbon **Running Annual Avera Fotal Organic Carbon (TC Removal Ratio – Treated Vater The water system used the product treatment technic Inorganic Contaminant Fluoride, mg/l Synthetic Organic Chen Hexachlorocyclo-pentadic	ne removal of uue requiremess	nts. The	rganio TOC	removal ra	atio i		red to be	Jar	1.0 - 0.7	Ugh December 2018 Water additive which promote strong teeth; erosion of natura deposits; discharge from fertilizer and aluminum factories ugh December 2018		

and abdominal cramps. Most healthy individuals can overcome the disease within a few weeks. However, immuno-compromised people, infants and small children, and the elderly are at greater risk of developing life-threatening illness. We encourage immunocompromised individuals to consult their doctor regarding appropriate precautions to take to avoid infection. Cryptosporidium must be ingested to cause disease, and it may be spread through means other than drinking water.