The City of Florence Has Never Violated Drinking Water Standards for Lead.

Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. A high level of lead in drinking water can cause health problems, particularly in children. That's why SCDHEC works to ensure that public water systems adhere to drinking water quality standards and regulations. Lead is rarely in drinking water when it leaves the treatment plant; however it can seep into the water from old plumbing along the way.



Where Your Water Comes From

The City of Florence relies on groundwater as its primary supply source. Groundwater flow within the Crouch Branch aquifers. The City provides drinking water for approximately 82,735 people, including 29,624 residences and more than 3,628 businesses. Approximately 70% of Florence's drinking water is provided by the groundwater well system. The City of Florence also operates the Pee Dee River Regional Surface Water Plant. This plant, which utilizes the Pee Dee River as its source provides approximately 30% of Florence's water supply. "It is our obligation to provide a safe reliable clean source of drinking water to our customers", said Randy Osterman, City Manager of the City of Florence.

Florence City Council

Florence City Council governs and sets policies to manage funding for public utilities, and City staff follows necessary protocol to ensure the city's compliance with all federal and state regulatory requirements. City Council meets the second Monday each month in Council Chambers at the City Center. The City Center is located at 324 West Evans St. in Florence, S.C. Customers and the public are encouraged to attend these meetings.

If You Have Special Health Concerns

Some people may be more vulnerable to substances in drinking water than the general population. Immuno-compromised persons, such as persons undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly individuals and infants can be particularly at risk due to infections. These people should seek advice about drinking water from their healthcare providers. The Environmental Protection Agency (EPA) and the Centers for Disease Control (CDC) provide guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbiological substances. Further information is available from the Safe Drinking Water Hotline at 1-800-426-4791.

About This Report

This report is designed to inform customers about water quality and to increase customer understanding of drinking water and how it is treated. The technical language, terms, descriptions, definitions, precautionary statements and scientific data contained in this report were prescribed by federal authorities and laws. The South Carolina Department of Health and Environmental Control (SCDHEC) validated the sampling results listed.

For more information about contaminants and potential health effects, you may call the EPA's Safe Drinking Water Hotline at 1-800-426-4791. For more information about this report please contact Michael Hemingway at (843) 665-3236.

What's In Your Drinking Water

All sources of drinking water are subject to potential contamination by substances that are naturally occurring or manmade. These substances can be microbes, inorganic or organic chemicals and radioactive substances. All drinking water, including bottled water, may contain at least minor traces of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk.

A source water assessment report has been prepared for the City of Florence water system. The report may be reviewed by contacting Malcolm Cook at (843) 665-3236.



2020 Water Quality Report

The City of Florence is once again ecstatic to report that the drinking water supplied to our citizens and customers throughout the 2020 calendar year was of the highest quality and exceeded all state and health safety standards.

The City of Florence is pleased to present the 2020 Annual Water Quality Report. City staff works diligently to provide exceptional water service that meets customer expectations and fulfills all state and federal regulatory compliance. "The importance of fresh, clean and safe drinking water can't be overemphasized," said City Manager, Randy Osterman. "We are pleased our monitoring results confirm our continuing effort to provide reliable service to our customers."

For more information, if needed, contact Michael Hemingway, City of Florence Utilities Director at (843) 665-3236.

The sampling data collected by the City of Florence is scientifically analyzed and confirmed by SCDHEC.

The 2020 annual report provides results of the challenging testing completed January 1, 2020 through December 31, 2020. The city is committed to producing the highest quality of water promoting a quality of life enjoyable for everyone. The sampling data is presented in a table included in this report.



2020 City of Florence Water Quality Report



Committed To Water Quality Excellence



www.cityofflorence.com

Fluoride

Fluoride is a naturally occurring element that helps prevent tooth decay. To maintain an acceptable level of fluoride a small amount of fluoride is added during the water treatment process, as recommended by the American Medical Association (AMA) and the American Dental Association (ADA).

Table Definitions

- HAA5 Halo acetic Acids
- TTHM Total Trihalomethanes
- MCLG Maximum Contaminant Level Goal. The level of contaminant in drinking water below which there is no known or expected health risk. MCLGs provide a margin of safety.
- MCL Maximum Contaminant Level. 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.
- Non-Detected. No measurable level of a substance or contaminant detected.
- PPB Parts Per Billion. The equivalent of one penny in \$10,000,000 or one minute in 2,000 years.
- 90th Of all samples analyzed, 90 percent were at or below the detection level.

Action Level. The concentration of a contaminant that, if exceeded, triggers treatment or other require-

- AL that, if exceeded, triggers treatment or other requirements, which a water system must follow.
- DBPR Disinfectant Byproduct Rule
- PPM Parts Per Million. The equivalent of one penny in \$10,000 or one minute in two years.
- MRDL Maximum Residual Disinfectant Level. Highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of disinfectant is necessary for control of microbial contaminants.
- MRDLG Maximum Residual Disinfectant Level Goal. Level of drinking water disinfectant below which there is no known risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.
- NTU Nephelometric Turbidity Unit. Units of measure to indicate water clarity.
- TT Treatment Technique. Required process intended to reduce the level of a contaminant in drinking water.
- LRAA Locational Running Annual Average.

2020 Water Quality Sampling Results

The following table shows actual sampling results for substances detected in the Florence water systems for the period Jan. 1 to Dec. 31, 2020, compared with state and federal health and safety standards for those substances.

Conta	minant	Violation	Level Detected	Measurement Unit	MCLG	MCL	Likely Source of Contamination
Co Ra 20 (da	ombined adium 015,2016,20 ata)	No)18	1.26 ND—1.26 (Range	piCi/L)	NA	5	Erosion of natural deposits
Be Er 4 1 20 (d:	eta/photon mitters (MC mrem/yr) 015,2016,20 ata)	L = No)18	7.58 ND—7.58 (Range	piCi/L)	NA	50** piCi/L	Decay of natural and man-made deposits
Fl	uoride	No	0.10	PPM	4	4	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories
Le (2	ead 018 Data)	No	90th Percentile 5.	0 PPB	0	AL=15	Corrosion of household plumbing systems; erosion of natural deposits
Co (2	opper 018 Data)	No	90th Percentile 0.5	1 PPM	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
So	odium	No	27.0	PPM	N/A	N/A	Corrosion of household plumbing systems; erosion of natural deposits
Ni	trate/Nitrite	No	ND – 0.95 <i>(Range</i>) PPM	10	10	Runoff from fertilizer; leaching from septic tanks, sewage; erosion of natural deposits
H/ St	AA5* age 2 DBP	R No	Max LRAA : 13.0 ND - 15.6/ <i>(Range</i>	PPB) PPB	0	60	By-product of drinking water chlorination
TT St	ſHM* age 2 DBP	R No	Max LRAA : 51.0 ND - 63.1 <i>(Range</i>	e) PPB	0	80	By-product of drinking water chlorination

*Compliance is based on LRAA, not on individual samples. **EPA consider 50 piCi/L to be a level of concern for beta particles.

Pee Dee I	River Sur	face Water P	lant Data					
Contaminant	Violation	Highest Single Sample		Measurement Unit		Lowest Monthly Percentage Meeting Standard		
Turbidity	bidity No 0.15		.15	NTU		100%		
Additiona	Iditional Surface Water Plant Data							
Contaminant	Violation	Level Detected	Measurement Unit	MRDLG	MRDL	Likely Source of Contamination		
Chlorine	No	RAA: 0.83		4	4	Treatment Technique		
TOC	No	1.3—- 3.1 (Range	e) PPM			Decay of naturally occurring organic matter		
TOC Removal	No	RAA Ratio: 1.40	Dimensionless	RAA Ratio Standard>1.0		Treatment Technique		

The Fourth Unregulated Contaminant Monitoring Rule (UCMR4)

DATA FOR CY2020 ONLY PWSCode

Data Run Date 3/17/2021

SC2110001 units of measure µg/L or ppb

Row Labels	Count of Result- BelowMRL Min of ResultMeasure	Max of Result- Measure	Average of ResultMeasure	Unregulated contaminants monitoring helps EPA to
AM1				determine when certain contaminants occur and
1-butanol	24			whether the EPA should consider regulating those
2-methoxyethanol	24			contaminants in the future.
2-propen-1-ol	24			
alpha- hexachlorocyclohexane	24			What is the Unregulated Contaminant Monitoring Rule?
butylated hydroxyanisole	24			
chlorpyrifos	24			The 1996 amendments to the Safe Drinking Water Act
dimethipin	24			(SDWA) require that once every five year, the U.S.
ethoprop	24			Environmental Protection Agency (EPA) issue a new list of
germanium	24			no more than 30 unregulated contaminants to be
manganese	24	0.541	10.7 3.44665217	4 monitored by public water systems (PWSs). The UMCR
o-toluidine	24			provides EPA and other interested parties with scientifically
oxyfluorfen	24			valid data on the occurrence of contaminants in drinking
profenofos	24			water.
quinoline	24			
tebuconazole	24			UCMR 4 monitoring occurred from 2018-2020 and includes
total permethrin	24			monitoring for a total of 30 chemical contaminants: 10
tribufos	24			cyanotoxins (nine cyanotoxins and one cyanotoxin group)
AM2				and 20 additional contaminants (two metals, eight
bromide	4	23.4	27.7 25.5	5 pesticides plus one pesticide manufacturing byproduct,
HAA5	32	0	23.45 10.66	8 three bromide halo acetic acid (HAA) disinfection
HAA6Br	32	0	7.243 3.0837812	5 byproducts groups, three alcohols, and three semi volatile
HAA9	32	0	28.93 13.6582187	organic chemicals (SVOCs). The City of Florence monitoring
total organic carbon	4	3820	6030 4852.	5 was conducted during the 2020 year.
AM3				
anatoxin-a	8			How can I learn more?
cylindrospermopsin	8			General information is available on the UCMR web page or
total microcystin	8			by calling the Safe Drinking Water Hotline at 800-426-4791