15A NCAC 18C .0102 is amended pursuant to G.S. 150B-21.5(a)(2), (4), and (5) as follows:

3 15A NCAC 18C .0102 **DEFINITIONS** 4 (a) The definitions contained in G.S. 130A-2, G.S. 130A-290, and G.S. 130A-313 are hereby incorporated by 5 reference including any subsequent amendments and editions. Copies of this material are available for inspection 6 and may be obtained from the Department of Environment, Health, and Natural Resources, Division of 7 Environmental Health, Public Water Supply Section, P.O. Box 29536, Raleigh, North Carolina 27626 0536 at no 8 charge. Copies are available for public inspection at the principal address of the Division of Water Resources at 512 9 North Salisbury Street, Raleigh NC 27604-1170; 1634 Mail Service Center, Raleigh NC 27699-1634; or at the 10 website of the Division at www.ncwater.org. (b) The definitions contained in 40 C.F.R. 141.2 are hereby incorporated by reference including any subsequent 11 12 amendments and editions except the following definitions are not adopted: 13 (1)"Disinfection", "Disinfection;" 14 (2)"Maximum containment level", level;" 15 "Person", "Person;" (3) 16 (4) "Public Water System", System;" and 17 "Supplier of water". water." (5)18 This material is available for inspection at the Department of Environment, Health, and Natural Resources, Division 19 of Environmental Health, 1330 Saint Mary's Street, Raleigh, North Carolina. Non members may obtain copies from 20 the American Water Works Association, Information Services, 6666 West Quincy Avenue, Denver, Colorado 80235 21 at a cost of fifteen dollars (\$15.00) up to 20 pages and thirty cents (\$0.30) per page for each additional page. Copies 22 are available for public inspection as set forth in Rule 18C .0102 of this Section. In addition, copies of governing 23 federal regulations may be obtained from the Environmental Protection Agency's (USEPA) homepage at 24 http://water.epa.gov/lawsregs/rulesregs/sdwa/index.cfm or from the USEPA's Drinking Water Hotline at 1-800-426-25 4791. 26 (c) In addition to the definitions incorporated by reference, reference as set forth in Paragraph (a), the following 27 definitions shall apply to this Subchapter: 28 (1)"Act" means the North Carolina Drinking Water Act. 29 (2) "Class I reservoir" means a reservoir from which water flows by gravity or is pumped directly to a 30 treatment plant or to a small intervening storage basin and thence to a treatment plant. 31 (3) "Class II reservoir" means a reservoir from which the water flows by gravity or is pumped to a 32 Class I reservoir prior to final entrance to a water treatment plant. 33 (4) "Class III reservoir" is means an impoundment used for electric power generation, flood control, 34 and similar purposes, and which also that serves as a source of raw water for a community water 35 system. 36 (5) "Cross-connection" means:

1		(A) any physical connection between a potable water supply system and any other piping
2		system, sewer fixture, container, or device, whereby water or other liquids, mixtures, or
3		substances may flow into or enter the potable water supply system;
4		(B) any potable water supply outlet which is submerged or is designed or intended to be
5		submerged in non-potable water or in any source of contamination or; <u>;or</u>
6		(C) an air gap, providing a space between the potable water pipe outlet and the flood level
7		rim of a receiving vessel of less than twice the diameter of the potable water pipe.
8	(6)	"Community Water System intake" means the structure at the head of a conduit into which water
9		is diverted from a stream or reservoir for transmission to water treatment facilities.
10	(7)	"Disinfection" means a process which that inactivates pathogenic organisms in water.
11	(8)	"Fecal Coliform" means bacteria consistently found in the intestine of man humans and other
12		warm blooded animals which that are not normally disease producing but serve as indicators of
13		recent fecal contamination. They are members of the Family Enterobacteriaceae, Genus
14		Escherichia, Species Coli.
15	(9)	"Mobile Home Park" means a site or tract of land where spaces are provided for lease or rental
16		only to mobile home occupants.
17	(10)	"Mobile home subdivision" means a subdivided site or tract of land in which lots are sold for use
18		by mobile home occupants.
19	(11)	"Non-potable water supply" means waters not approved for drinking or other household uses.
20	(12)	"Potable water supply" means water which is approved for drinking or other household uses.
21	(13)	"Raw water" means surface water or groundwater which that because of bacteriological quality,
22		chemical quality, turbidity, color, or mineral content makes it unsatisfactory as a source for a
23		community water system without treatment.
24	(14)	"Raw water reservoir" means a natural or artificial impoundment used for the primary purpose of
25		storing raw water to be subsequently treated for use as a source for a community water system.
26	(15)	"Service connection" means a piped connection from a water main for the purpose of conveying
27		water to a building or onto a premise for human use.
28	(16)	"Water supply product" means any chemical or substance added to a public water system in
29		conjunction with a treatment technique or material used in construction of a public water system.
30		The term includes any material used in the manufacture of public water system components,
31		appurtenances, any pipe, storage tank or valve which that comes in contact with water intended for
32		use in a public water system.
33		
34	History Note:	Authority G.S. 130A-311 through 130A-327; P.L. 93-523; 40 C.F.R. 141.2;
35		Eff. January 1, 1977;
36		Readopted Eff. December 5, 1977;
37		Amended Eff. <u>April 1, 2014;</u> July 1, 1994; August 1, 1991; January 1, 1991; September 1, 1990.

15A NCAC 18C .0201 is amended pursuant to G.S. 150B-21.5(a)(2)&(4) as follows:

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3	15A NCAC 18C .0201 SURFACE SUPPLIES FOR PUBLIC WATER SYSTEMS
4	(a) A surface supply may be used for a community or a non-transient, non-community water system with
5	disinfection and without filtration if it complies with the provisions of this Section and Rule .2005 of thi
6	Subchapter.
7	(b) Such water supply shall be derived from uninhabited wooded areas.
8	(c) The entire watershed shall be either owned or controlled by the person supplying the water or be under the
9	control of the federal or state government; however, no such new water supply shall be created except where the
10	water system owner shall own in its entirety the watershed from which the water will be obtained.
11	(d) The water after disinfection shall be of potable quality as determined by bacteriological and chemical test
12	performed by a certified laboratory. The presence of contaminants shall not exceed the limits set forth in Section
13	.1500 of this Subchapter.
14	(e) The water source shall have an WS-I a WS-I classification as established by the Environmental Management
15	Commission and shall meet the quality standards for that classification, codified in 15A NCAC -2B which are
16	hereby incorporated by reference including any subsequent amendments and editions. Copies of this material are
17	available for inspection and may be obtained from the Department of Environment, Health, and Natural Resources
18	Division of Environmental Health, Public Water Supply Section, P.O. Box 29536, Raleigh, North Carolina 27626
19	0536 at no charge. 2B. Copies are available for public inspection as set forth in Rule 18C .0102 of this Subchapter.
20	
21	History Note: Authority G.S. 130A-315; 130A-318; P.L. 93-523;
22	Eff. January 1, 1977;
23	Readopted Eff. December 5, 1977;
24	Amended Eff. <u>April 1, 2014; J</u> uly 1, 1994; February 1, 1987; September 1, 1979.

15A NCAC 18C .0202 is amended pursuant to G.S. 150B-21.5(a)(2)&(4) as follows:

3 15A NCAC 18C .0202 **REMOVAL OF DISSOLVED MATTER AND SUSPENDED MATTER** 4 Any surface water which that is to receive treatment for removal of dissolved matter or suspended matter in order to 5 be used for a public water system shall be obtained from a source which that meets the WS-I, WS-II, WS-IV, WS-IV 6 or WS-V stream classification standards established by the Environmental Management Commission codified in 7 15A NCAC 2B which are hereby incorporated by reference including any subsequent amendments and editions. 8 Copies of this material are available for inspection and may be obtained from the Department of Environment, 9 Health, and Natural Resources, Division of Environmental Health, Public Water Supply Section, P.O. Box 29536, 10 Raleigh, North Carolina 27626 0536 at no charge. 2B. Copies are available for public inspection as set forth in Rule 11 <u>18C .0102 of this Subchapter</u>. The source shall be protected from <u>potential</u> sources of pollution as determined by a 12 sanitary survey of the watershed made by an authorized representative of the Department. The source supply shall 13 be sufficient in capacity to satisfy the anticipated needs of the users for the period of design. 14 15 Authority G.S. 130A-315; 130A-318; P.L. 93-523; History Note: 16 *Eff. January 1, 1977;* 17 Readopted Eff. December 5, 1977; 18 Amended Eff. April 1, 2014; July 1, 1994; September 1, 1990; February 1, 1987; September 1, 1979. 19

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15A NCAC 18C .0302 is amended pursuant to G.S. 150B-21.5(a)(2)&(4) as follows:

- 3 15A NCAC 18C .0302 **SUBMITTALS** 4 (a) All plans, specifications, reports reports, or other data shall be submitted in triplicate for review by the Public 5 Water Supply Section, Division of Environmental Health, P.O. Box 29536, Raleigh, North Carolina 6 27626-0536. Water Resources at 512 N Salisbury Street, Room 1304A, Raleigh NC 27604-1170, or 1634 Mail 7 Service Center, Raleigh NC 27699-1634. 8 (b) Engineering plans shall consist of legible prints having black, blue, or brown lines on a white background 9 suitable for microfilming. The engineering plans shall not be more than 36 inches wide and 48 inches long and not 10 be less than 11 inches wide and 17 inches long. 11 (c) An applicant subject to G.S. 143-355(l) shall submit three copies of the adopted Local Water Supply Plan. If 12 information required in the Engineer's Report or the Water System Management Plan is included in an adopted 13 Local Water Supply Plan, a submittal to the Department may incorporate this information by referencing the 14 location in the adopted Local Water Supply Plan. 15 (d) Existing systems that have previously submitted an Engineer's Report and a Water System Management Plan in 16 accordance with Rule .0307 of this Section shall document any changes either as revised reports and plans or 17 addendums. 18 19 History Note: Authority G.S. 130A-315; 130A-317; P.L. 93-523; 20 *Eff. January 1, 1977;* 21 Readopted Eff. December 5, 1977; 22 Amended Eff. July 1, 1994; December 1, 1991; September 1, 1990; June 30, 1980; September 1, 23 1979: 24 Temporary Amendment Eff. October 1, 1999;
- 25 Amended Eff. <u>April 1, 2014;</u> August 1, 2000.

15A NCAC 18C .0401 is amended pursuant to G.S. 150B-21.5(a)(2) as follows:

3 15A NCAC 18C .0401 MINIMUM REQUIREMENTS

4 The design criteria given in this Section are the minimum requirements for approval of plans and specifications by 5 the Division of Environmental Health, Department of Environment, Health, and Natural Resources. Department. 6 The Department provides supplemental criteria for design of water systems in 15A NCAC 18C .0500 .. 1000. Rules 7 .0500-.1000 of this Subchapter. 8 9 Authority G.S. 130A-315; 130A-317; P.L. 93-523; History Note: 10 *Eff. January 1, 1977;* Readopted Eff. December 5, 1977.1977; 11 Amended Eff. April 1, 2014; July 1, 1994; September 1, 1979. 12

15A NCAC 18C .0402 is amended pursuant to G.S. 150B-21.5(a)(2)&(4) as follows:

3 15A NCAC 18C .0402 WATER SUPPLY WELLS

- 4 (a) Well Construction. The construction of water supply wells shall conform to well construction regulations and
- 5 standards of the Division of Environmental Management, N.C. Water Resources, Department of Environment,
- 6 Health, Environment and Natural Resources, codified in 15A NCAC 2C which are hereby incorporated by reference
- 7 including any subsequent amendments and editions. Copies of this material are available for inspection and may be
- 8 obtained from the Department of Environment, Health, and Natural Resources, Division of Environmental Health,
- 9 Public Water Supply Section, P.O. Box 29536, Raleigh, North Carolina 27626 0536 at no charge. 2C. Copies are
- 10 available for public inspection as set forth in Rule 18C .0102 of this Subchapter.
- 11 (b) Upper Terminal of Well. The well casing shall neither terminate below ground nor in a pit. The pump pedestal
- 12 for above ground pumps of every water supply well shall project not less than six inches above the concrete floor of
- 13 the well house, or the concrete slab surrounding the well. The well casing shall project at least one inch above the
- 14 pump pedestal. For submersible pumps the casing shall project at least six inches above the concrete floor or slab
- 15 surrounding the well head.
- 16 (c) Sanitary Seal. The upper terminal of the well casing shall be sealed watertight with the exception of a vent pipe
- 17 or vent tube having a downward-directed, screened opening.
- 18 (d) Concrete Slab or Well House Floor. Every water supply well shall have a continuous bond concrete slab or well
- house concrete floor extending at least three feet horizontally around the outside of the well casing. Minimumthickness for the concrete slab or floor shall be four inches.
- (e) Sample Tap and Waste Discharge Pipe. Faucets or spigots shall be provided for sampling both raw water prior
 to treatment and treated water prior to delivery to the first customer. Sample spigots shall not be threaded for hose
 connection. Threaded hose bibs shall be equipped with anti-siphon devices. A water sample tap and piping
 arrangement for discharge of water to waste shall be provided.
- (f) Physical Security and Well Protection. A water supply well shall be secured against unauthorized access and
 protected from the weather. One of the following structures shall be provided:
- 27 (1) Well house. A well house shall be constructed as follows:
- 28 (A) Structures shall comply with applicable provisions of state and local building
 29 codes;
- 30 (B) Drainage drainage shall be provided by floor drain, wall drain, or slope to door;
- 31 (C) Access access into the structure shall be a doorway with minimum dimensions of 36
 32 inches wide and 80 inches high; and
- 33 (D) The the structure shall have adequate space for the use and maintenance of the piping and
 34 appurtenances. If treatment is provided at the well, the provisions of Rule .0404(a) of
 35 this Section shall apply: apply: and
- 36 (E) The the structure shall be secured with lock and key.
- 37 (2) Prefabricated structures. A prefabricated structure shall be constructed as follows:

	(A) <u>A well head a well-head cover shall be hinged and constructed so that it can be lifted by</u>	у
	one person;	
	(B) <u>A locking a locking mechanism shall be provided; and</u>	
	(C) Permanent permanent fastening to the slab (such as with bolts) shall not be permitted.	
(3)	Fencing and temperature protection. Fencing and temperature protection shall be constructed as	.S
	follows:	
	(A) The the fence height shall be a minimum of six feet;	
	(B) The the fence shall be constructed of chain link with locked access;	
	(C) The the fence shall enclose the well; well, hydropneumatic tank, and associated	d
	equipment;	
	(D) Access <u>access</u> shall be provided for maintenance and operation; and	
	(E) The the well, piping, treatment equipment, and electrical controls shall be protected	d
	against freezing. Wrapping with insulation is acceptable for appurtenances such as the	e
	air vent, meter, valves, and sample taps provided they are visible and accessible	÷.
	Insulation shall be jacketed.	
(g) Yield:		
(1)	Wells shall be tested for yield and drawdown. A report or log of at least a 24-hour drawdown tes	st
	to determine yield shall be submitted to the Division of Environmental Health Water Resources	S
	for each well.	
(2)	Wells shall be located so that the drawdown of any well will shall not interfere with the required	d
	yield of another well.	
(3)	The combined yield of all wells of a water system shall provide in 12 hours pumping time the	e
	average daily demand as determined in Rule .0409 of this Section.	
(4)	The capacity of the permanent pump to be installed in each well shall not exceed the yield of the	e
	well as determined by the drawdown test.	
(5)	A residential community water system using well water as its source of supply and designed to	0
	serve 50 or more connections shall provide at least two wells. A travel trailer park or campground	d
	designed to serve 100 or more connections shall provide at least two wells. In lieu of a second	d
	well, another approved water supply source may be accepted.	
(6)	A totalizing meter shall be installed in the piping system from each well.	
(h) Initial Disir	nfection of Water Supply Well. All new wells, and wells that have been repaired or reconditioned	d
shall be cleaned	l of foreign substances such as soil, grease, and oil, and then shall be disinfected. A representative	e
sample or samp	bles of the water (free of chlorine) shall be collected and submitted to a certified laboratory fo	r
-		
-		e
free of bacteriol	ogical contamination.	
	(g) Yield: (1) (2) (3) (4) (5) (6) (h) Initial Disinsitian the cleaned shall be cleaned shall be cleaned sample or sample acteriological until bacteriological	 one person; (B) A locking a locking mechanism shall be provided; and (C) Permanent permanent fastening to the slab (such as with bolts) shall not be permitted. (3) Fencing and temperature protection. Fencing and temperature protection shall be constructed a follows: (A) The the fence height shall be a minimum of six feet; (B) The the fence shall be constructed of chain link with locked access; (C) The the fence shall be constructed of chain link with locked access; (C) The the fence shall be provided for maintenance and operation; and (E) The the well, piping, treatment equipment, and electrical controls shall be protecter against freezing. Wrapping with insulation is acceptable for appurtenances such as th air vent, meter, valves, and sample taps provided they are visible and accessible Insulation shall be jacketed. (g) Yield: (1) Wells shall be tested for yield and drawdown. A report or log of at least a 24-hour drawdown test to determine yield shall be submitted to the Division of Environmental Health Water Resource for each well. (2) Wells shall be located so that the drawdown of any well will shall not interfere with the requires yield of another well. (3) The combined yield of all wells of a water system shall provide in 12 hours pumping time th average daily demand as determined in Rule .0409 of this Section. (4) The capacity of the permanent pump to be installed in each well shall not exceed the yield of the well as determined by the drawdown test. (5) A residential community water system using well water as its source of supply and designed to serve 50 or more connections shall provide at least two wells. In lieu of a second well, another approved water supply source may be accepted.

1 (i) Initial Chemical Analyses. A representative sample of water from every new water supply well shall be 2 collected and submitted for chemical analyses to the Division of Laboratory Services or to a certified laboratory. 3 The results of the analysis shall demonstrate the water is treatable to meet water quality standards in Section .1500 4 of this Subchapter and needed treatment shall be provided before the well is placed into service. 5 (j) Continuous Disinfection. Continuous application of chlorine or chlorine, hypochlorite solution, or some 6 other approved and equally efficient disinfectant shall be provided for all well water supplies introduced on or after 7 January 1, 1972. Equipment for determining residual chlorine concentration in the water shall be included in the 8 plans and specifications. 9 10 History Note: Authority G.S. 130A-315; 130A-317; P.L. 93-523; Eff. January 1, 1977; 11 12 Readopted Eff. December 5, 1977; 13 Amended Eff. April 1, 2014; July 1, 1994; September 1, 1990; January 1, 1986; March 31, 1980.

15A NCAC 18C .0405 is amended pursuant to G.S. 150B-21.5(a)(2)&(4) as follows:

2 3 15A NCAC 18C .0405 STORAGE OF FINISHED WATER 4 (a) Ground Level Storage 5 (1)Finished Water Ground Storage Tank. Finished water ground storage tanks shall be provided with 6 a light-proof and insect-proof cover of concrete, steel steel, or equivalent material approved by the 7 Division. The construction joints between side walls and the covers of concrete tanks or 8 reservoirs shall be above ground level and above flood level; except that clearwells constructed 9 below filters may be excepted from this requirement when total design, including waterproof 10 joints, gives equal protection. protection from flooding. 11 (2)Access Manholes. The access manholes for finished water ground storage tanks or reservoirs shall 12 be framed at least four inches above the tank or reservoir covers at the opening and shall be fitted 13 with solid covers of materials that overlap the framed openings and extend down around the 14 frames at least two inches. The covers for the openings shall be hinged at one side and fitted with 15 a locking device. 16 (3) Tanks or Reservoirs. The tanks Venting. Finished water ground storage tanks or reservoirs shall 17 have vents with screened, downward directed openings. The vent and screen shall be of corrosion 18 resistant material. 19 (4) Overflow. The overflow pipes for finished water ground storage tanks or reservoirs shall not be 20 connected directly to sewers or storm drains. Screens or other devices to prevent access by 21 rodents, insects, etc. shall be provided in the overflow pipe. 22 (5) Inlets and Outlets. Water supply inlets and outlets of finished water ground storage tanks and 23 reservoirs shall be located and designed to provide circulation of the water and to meet the CT 24 requirements in Section .2000 of this Subchapter. Baffles shall be constructed where necessary to 25 provide thorough circulation of the water. 26 (6) Drain Valves. All finished water ground storage tanks and reservoirs shall be equipped with drain 27 valves. 28 (b) Elevated Storage Tanks: 29 Standards. The specifications for elevated tanks, stand-pipes, towers, paints, coatings, coatings, (1)30 and other appurtenances shall meet the appropriate ANSI/AWWA Standards D 100 84 and D 31 101-53(R86) of the American Water Works Association, Inc., which Inc. that are hereby 32 incorporated by reference including any subsequent amendments and editions. This material is 33 available for inspection at the Department of Environment, Health, and Natural Resources, 34 Division of Environmental Health, 1330 Saint Mary's Street, Raleigh, North Carolina. Nonmembers may obtain copies from the American Water Works Association, 6666 W. Quincy 35 36 Avenue, Denver, Colorado 80235 at a cost of eighteen dollars and fifty cents (\$18.50) for D-100-

1		84 and nine dollars (\$9.00) for D 101 53(R86). Copies are available for public inspection as set
2		forth in Rule 18C .0102 of this Subchapter.
3	(2)	Elevation of Storage Tanks. The elevation of storage tanks shall be sufficient to produce a
4		designed minimum distribution system pressure of 20 pounds per square inch at peak demand (fire
5		flow) and 30 pounds per square inch during peak flow.
6	(3)	Drain. Elevated storage tanks shall be equipped with drain valves.
7	(c) Hydropneur	natic Storage Tanks (Pressure Tanks)
8	(1)	Use of Pressure Tanks. Where well yields and pumping capacities are sufficient, hydropneumatic
9		(pressure) tanks may be used to control pumps, stabilize pressures pressures, and provide a
10		minimum of storage. Pressure tanks shall have the capacity to maintain a minimum pressure of 30
11		pounds per square inch throughout periods of peak flow. Pressure tanks shall not be considered
12		acceptable for meeting total storage requirements for water systems of over 300 connections,
13		except as provided in Paragraph (d) of this Rule.
14	(2)	Corrosion Control. Pressure tanks shall be galvanized after fabrication, provided with
15		an ANSI/NSF approved liner or coating coated in accordance with Rule .1537 of this Subchapter.
16	(3)	Required Parts. Pressure tanks shall have access manholes, bottom drains, pressure gauges, and
17		properly sized safety and vacuum relief valves.
18	(4)	Controls. Automatic pressure, pressure and start-stop controls for operation of pumps shall be
19		provided.
20	(5)	Hydropneumatic Storage Tanks. Hydropneumatic storage tanks shall conform to the construction
21		requirements for pressure vessels adopted by the North Carolina Department of Labor and
22		codified in 13 NCAC 13 which that is hereby incorporated by reference including any subsequent
23		amendments and editions. Copies of the rules are available for inspection at the Department of
24		Environment, Health, and Natural Resources, Division of Environmental Health, 1330 Saint
25		Mary's Street, Raleigh, North Carolina. Copies may be obtained from the Boiler and Pressure
26		Vessel Division, North Carolina Department of Labor, 4 West Edenton Street, Raleigh, N.C.
27		27601 at a cost of fifteen dollars (\$15.00). Copies are available for public inspection as set forth in
28		Rule 18C .0102 of this Subchapter.
29	(6)	Appurtenances to hydropneumatic storage tanks such as valves, drains, gauges, sight tubes, safety
30		devices, air-water volume controls, and chemical feed lines shall be protected against freezing.
31	(d) High Yield	Aquifers:
32	(1)	Equipment. In lieu of providing elevated storage for systems over 300 connections in areas where
33		aquifers are known to produce high yields, e.g., 400-500 gpm from an eight-inch well, a system of
34		extra well pumping capacity, auxiliary power generating equipment, hydropneumatic tanks,
35		controls, alarms alarms, and monitoring systems may be provided. The design and installation of
36		such system shall assure that reliable, continuous service is provided.

1	(2)	Auxiliary Power. Such a system shall have an adequate number of wells equipped with sufficient
2		pumping capacity so that the required flow rate can may be maintained with the single largest
3		capacity well and pump out of operation. Auxiliary power generating equipment shall be provided
4		for each well sufficient to operate the pump, lights, controls, chemical feeders, alarms, and
5		other electrical equipment as may be necessary.
6	(3)	Pump Control. Hydropneumatic tanks designed in accordance with Paragraph (c) of this Rule and
7		Section .0800 of this Subchapter shall be provided to maintain pressure and control the pump
8		operation.
9	(4)	Alarm System. An alarm system shall be provided which that will send a visual or audible signal
10		to a constantly monitored location so that the water system operator will be advised of a primary
11		power failure.
12		
13	History Note:	Authority G.S. 130A-315; 130A-317; P.L. 93-523;
14		Eff. January 1, 1977;
15		Readopted Eff. December 5, 1977;
16		Amended Eff. <u>April 1, 2014; J</u> uly 1, 1994; September 1, 1990; October 1, 1986; June 30, 1980.

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15A NCAC 18C .0406 is amended pursuant to G.S. 150B-21.5(a)(2)&(4) as follows:

3 15A NCAC 18C .0406 DISTRIBUTION SYSTEMS

4 (a) Water Pipe Materials. Distribution mains shall be cast iron, ductile iron, asbestos-cement, reinforced 5 concrete, plastic plastic, or other material designed for potable water system service and shall be the appropriate 6 AWWA standards, section C, or NSF Standards No. 14 and No. 15 that is hereby incorporated by reference 7 including any subsequent amendments and editions. 15, which is adopted by reference in accordance with G.S. 8 150B 14(c) or approved equal standards. Copies of AWWA standards are available from the American Water 9 Works Association, 6666 W. Quincy Avenue, Denver, Colorado 80235. Copies of NSF standards are available from 10 the National Sanitation Foundation, NSF Building, Ann Arbor, Michigan 48105. Copies are available for public 11 inspection at the principal address of the Division. Copies are available for public inspection as set forth in Rule 18C 12 .0102 of this Subchapter. The pressure rating class of the pipe shall be in excess of the maximum design pressure 13 within that section of the water distribution system. The quality of pipe to be used shall be stated in the project 14 specifications. 15 (b) Cross-Connections 16 No potable water supply shall be connected by any means whatever to another source of water (1)17 supply or to a storage facility unless such connection has been previously approved by 18 the **Division**. Department. No connection shall be made to any plumbing system that does not 19 comply with the North Carolina State Building Code, volume II, or any applicable local plumbing 20 code. 21 (2) No person shall introduce any water into the distribution system of a public water supply through 22 any means other than from a source of supply duly approved by the Department or its 23 representatives, or make a physical connection between an approved supply and unapproved 24 supply unless authorized in an emergency by the Department or its representative. 25 (3) In cases where storage capacity is used only for non-potable purposes and there is installed either 26 an elevated or ground tank or a ground reservoir, the following precautions shall be taken: 27 (A) When the reservoir or elevated tank is filled from a supply other than a public water 28 supply and the public water supply is used as a supplemental supply, the pipeline from 29 the public water supply shall be installed in such a manner that the water will be 30 discharged over the top or rim of the reservoir or elevated tank. There shall be a 31 complete physical break between the outlet end of the fill pipe and the top or overflow

33 (B) When the elevated tank or ground storage reservoir reservoir or tank is filled entirely by
34 water from a public water supply:

rim of the tank or reservoir of at least twice the inside diameter of the inlet pipe.

35 (i) If a covered ground reservoir or covered elevated storage tank is used, an
36 approved reduced pressure back-flow preventor or an approved double check
37 valve assembly may be used. The back-flow prevention device shall be installed

1		in such a manner as to afford adequate protection and shall be easily accessible
2		and shall protection, be easily accessible, and include all necessary pressure
3		gauges and drains for testing. Gate valves shall be installed in the line at both
4		ends of the back-flow prevention device.
5		(ii) If an uncovered ground reservoir or uncovered elevated storage tank is used, a
6		complete physical break shall be provided between the reservoir or elevated tank
7		and the public supply. The physical break between the inlet pipe and the top or
8		overflow rim of the reservoir shall be at least twice the diameter of the inlet
9		pipe.
10	(4)	All cross-connections between potable water supplies and non-potable or unprotected
11		supplies which that are not specifically covered in the categories in this Paragraph will be
12		considered as special problems and the protective devices required will shall be determined by the
13		Department on the basis of the degree of health hazard involved.
14	(5)	Persons desiring to install non-potable water supplies in conjunction with a public water supply
15		shall submit to the public water supply section, Division of Environmental Health, detailed plans
16		and specifications in triplicate showing the non-potable water supply and its relation to the potable
17		water supply. supply to the Department in accordance with Rule .0302(a) of this Subchapter.
18	(6)	Any such interconnection to a potable water system is subject to the approval of the water supplier
19		and shall not be made until authorized by the water supplier in addition to the Department.
20	(7)	No person shall fill special use tanks or tankers containing pesticides, fertilizers, other
21		toxic chemicals <u>chemicals</u> , or their residues from a public water system except at a location
22		equipped with an over-the-rim free discharge of water or an approved <u>a</u> reduced pressure backflow
23		preventer properly installed on the public water supply. supply that has been approved by the
24		Department. No supplier of water shall permit the filling of such special use containers tanks or
25		tankers except at locations so equipped.
26		
27	History Note:	Authority G.S. 130A-315; 130A-317; P.L. 93-523;
28		Eff. January 1, 1977;
29		Readopted Eff. December 5, 1977;
30		Amended Eff. <u>April 1, 2014;</u> September 1, 1990; December 1, 1988; June 30, 1980.

15A NCAC 18C .0706 is amended pursuant to G.S. 150B-21.5(a)(2) as follows:

3	15A NCAC 18C .0706	SEDIMENTATION BASIN

- 4 (a) Inlets. Inlets to sedimentation basins shall be designed to dissipate inlet velocities before the diffusion walls or
 5 before other entrance arrangements designed to provide uniform flow across the basins.
- 6 (b) Detention Period. A theoretical detention period of four hours shall be considered to be a minimum standard
- 7 unless evidence, acceptable to the Division of Environmental Health, Water Resources, is presented to support
- 8 approval of a lower period of detention.
- 9 (c) Bottom of Basin. The bottom of the basin shall be adequately sloped and provided with drain valve or valves 10 for ready removal of sludge.
- 11 (d) Outlet. Sedimentation basin outlets shall consist of submerged weirs or orifices. The equivalent rate of flow
- 12 over or through the outlet device should not exceed 20,000 gallons per day per foot of equivalent weir length.
- 13 (e) Overflow. The sedimentation <u>Sedimentation</u> basins shall be equipped with an overflow pipe or pipes to limit the
- 14 maximum water level over the filters and to prevent flooding above the walls of filters and basins.
- 15
- 16 History Note: Authority G.S. 130A-315; 130A-317; P.L. 93-523;
- 17 *Eff. January 1, 1977;*
- 18 Readopted Eff. December 5, 1977.1977;
- 19 <u>Amended Eff. April 1, 2014.</u>

15A NCAC 18C .0715 is amended pursuant to G.S. 150B-21.5(a)(2)&(4) as follows:

3	15A NCAC 18C .0715 OTHER DESIGN STANDARDS
4	In evaluation of water systems or water system design features not addressed in this Section, the Department shall
5	consider standards from the American Water Works Association or Recommended Standards for Water Works of 10
6	states and Ontario. A copy of the American Water Works Association standards is available for inspection at the
7	Public Water Supply Section, 1330 St. Mary's Street, Raleigh, North Carolina. Non members may obtain a set of
8	he standards from the American Water Works Association, 6666 W. Quincy Avenue, Denver, Colorado 80235 at a
9	cost of six hundred and ten dollars (\$610.00). Ontario, that is hereby incorporated by reference including any
10	subsequent amendments and editions. Copies are available for public inspection as set forth in Rule 18C .0102 of
11	his Subchapter.
12	A copy of the Recommended Standards for Water Works for 10 States and Ontario is available for inspection at the
13	Public Water Supply Section, 1330 Saint Mary's Street, Raleigh, North Carolina. Copies of these standards may be
14	obtained from Health Education Services, P.O. Box 7126, Albany, New York 12224 at a cost of eight dollars and
15	Fifty cents (\$8.50) each (including postage). Prices may vary for multiple copies because of postage. Prepayment is
16	required by the vendor.
17	
18	History Note: Authority G.S. 130A-315; 130A-317; P.L. 93-523;
19	Eff. July 1, 1994.<u>1994;</u>

20 <u>Amended Eff. April 1, 2014.</u>

15A NCAC 18C .0802 is amended pursuant to G.S. 150B-21.5(a)(2)&(4) as follows:

3 15A NCAC 18C .0802 CAPACITIES: DETERMINING PEAK DEMAND

4 (a) The following charts, charts shall be used to determine the peak demand for residential communities, mobile

5 home parks, and campgrounds: campground, residential community, and mobile home park water systems:

PEAK DEMAND FOR CAMPGROUND WATER SYSTEMS

(Number of Connections vs Gallons per Minute)



Number of Connections



Gallons Per Minute



Amended Eff. April 1, 2014; July 1, 1994; June 30, 1980.

- 1 2
- 15A NCAC 18C .0805 is amended pursuant to G.S. 150B-21.5(a)(2)&(4) as follows:
- 3 15A NCAC 18C .0805 CAPACITIES: ELEVATED STORAGE
- 4 (a) Where feasible, elevated storage capacity shall meet the requirements of the ISO Commercial Risk Services,
- 5 Inc. Fire Suppression Rating Schedule which that are hereby incorporated by reference including any subsequent
- 6 amendments and editions. This material is available for inspection at the Department of Environment, Health, and
- 7 Natural Resources, Division of Environmental Health, 1330 St. Mary's Street, Raleigh, North Carolina. Copies may
- 8 be obtained from ISO Commercial Risk Services, Incorporated, Accounting Division, 7 World Trade Center, New
- 9 York, New York 10048 at a cost of forty dollars (\$40.00) per copy. Copies are available for public inspection as set
- 10 forth in Rule 18C .0102 of this Subchapter.
- (b) The elevated storage <u>capacity</u> for a municipality shall be sufficient to minimize the effect of fluctuating
 demand plus and provide a reserve for fire protection, but not be less than 75,000 gallons in capacity.
- 13 (c) The combined elevated and ground storage <u>capacity</u> of the finished water for community and non-transient, non-
- 14 community water systems shall be a minimum of one-half day's supply of the average annual daily demand.
- 15

- 16 History Note: Authority G.S. 130A-315; 130A-317; P.L. 93-523;
 - Eff. January 1, 1978;
- 18 Amended Eff. <u>April 1, 2014; July 1, 1994</u>.

15A NCAC 18C .0907 is amended pursuant to G.S. 150B-21.5(a)(2)&(4) as follows:

3	15A NCAC 18C .0907	VALVES

4 (a) Valves should be installed on all branches from feeder mains mains, and between mains and hydrants according
 5 to the following schedule:

- 6 (1) three valves at x (crosses),
- 7 (2) two valves at T's (tees), and
- 8 (3) one valve on single hydrant branch.

9 (b) All valves installed in water distribution systems should shall meet the appropriate AWWA Standards C 500-71 (adopted in 1971), C 504-74 (adopted in 1974), and C 507-73 (adopted in 1973) of the American Water 10 11 Works Association, Inc., that are incorporated by reference including any subsequent amendments or editions. Inc., 12 or approved equal standards. Copies of AWWA standards are available from the American Water Works 13 Association, 6666 W. Quincy Avenue, Denver, Colorado 80235, at a cost of one hundred forty dollars (\$140.00) 14 per complete set for non members or seventy dollars (\$70.00) for members. Copies are available for public 15 inspection at the principal address of the Public Water Supply Section, Division of Environmental Health. Copies 16 are available for public inspection as set forth in Rule 18C .0102 of this Subchapter. Further, all All valves must be 17 installed in such a manner as to be readily accessible, preferably, the use of an appropriate valve box and cover. 18 19 History Note: Authority G.S. 130A-315; 130A-317; P.L. 93-523; 20 *Eff. January 1, 1977;* 21 Readopted Eff. December 5, 1977;

22 Amended Eff. <u>April 1, 2014;</u> March 31, 1980.

15A NCAC 18C .1204 is amended pursuant to G.S. 150B-21.5(a)(2) as follows:

3 15A NCAC 18C .1204 FISHING

(a) Fishing shall not be permitted on any Class I or Class II public water supply reservoir without a resolution
granting permission by the Commission for Public Health. In order to obtain permission, a written application shall
be submitted by the owner of the water supply to the Commission for Public Health. Permission shall not be issued
until an investigation has been made by an authorized representative of the Division of Environmental Health Water
<u>Resources</u> and a determination made that fishing in the reservoir will shall not adversely affect the water quality.

9 (b) The application requesting permission to fish in any reservoir shall be accompanied by sufficient evidence (such 10 as ordinances adopted by the applicant) to insure that the following requirements will shall be enforced by the 11 applicant:

- 12 (1) Fishing will shall be permitted only from boats owned or controlled by the applicant. Boats will at 13 all times be under the supervision and jurisdiction of a responsible representative of the applicant. 14 Bank fishing may be permitted in restricted supervised areas with proper sanitation facilities 15 when specifically included as a specific, listed activity and approved by the Commission for 16 Public Health.
- A sufficient number of wardens and watershed inspectors will shall be employed at all times to
 insure that no acts of urination, defecation defecation, or other acts which would defile the water
 supply are committed by any person while fishing in the public water supply reservoir.
- 20(3)A fishing dock, or docks, will dock shall be provided or controlled by the applicant for the purpose21of docking fishing boats. No boat shall enter or leave the reservoir except from a ramp owned or22controlled by the applicant.

23		
24	History Note:	Authority G.S. 130A-315; 130A-320; P.L. 93-523;
25		Eff. January 1, 1977;
26		Readopted Eff. December 5, 1977;
27		Amended Eff. September 1, 1979;
28		Transferred and Recodified from 10 NCAC 10D .1303 Eff. April 4, 1990;
29		Amended Eff. <u>April 1, 2014;</u> September 1, 1990.

- 1 2
- 15A NCAC 18C .1406 is amended pursuant to G.S. 150B-21.5(a)(2)&(4) as follows:
- 3 15A NCAC 18C .1406 CONTROL OF TREATMENT PROCESS
- 4 (a) The treatment process shall result in the adjustment of fluoride ion (F) (F-) in the treated water to 1.0 mg/liter.
- 5 (b) A water treatment plant operator, having qualifications acceptable to the controlling health agencies, operator
- 6 certified under 15A NCAC 18D shall conduct the necessary chemical analyses and supervise application of the
 7 fluoride.
- 8 (c) An adequate number of samples <u>Samples</u> shall be collected and analyzed from points before and after 9 fluoridation and from one or more points in the distribution system. The minimum number of control tests <u>required</u> 10 and the number of check samples to be collected and submitted to the <u>Division of Laboratory Services</u> <u>North</u> 11 <u>Carolina State Laboratory of Public Health for analysis</u> shall be determined by the <u>controlling health agencies in</u>
- 12 each instance. Department in conjunction with the State Health Director, based on guidance from the Center for
- 13 Disease Control, and considering recommendations from the local health department and the supplier of water.
- (d) The fluoride content of the water shall be determined in accordance with methods in Rule .1508 of thisSubchapter.
- 16 (e) Accurate records of the amount of fluoride applied to the water and the results of all fluoride analyses shall be
- 17 recorded on forms approved by the Department and submitted to the Department weekly.
- 18 (f) The manufacturer shall submit a certified copy of the chemical analysis of the product offered for sale. Test for
- 19 the purity of the chemical shall include the U.S. Pharmacopoeia tests for heavy metals which are incorporated by
- 20 reference including any subsequent amendments or editions. A copy is available for inspection at the Department of
- 21 Environment, Health, and Natural Resources, Division of Environmental Health, Public Water Supply Section, 1330
- 22 Saint Mary's Street, Raleigh, North Carolina. Copies may be obtained from the Division of Consumers Union of
- 23 U.S., Incorporated, 101 Truman Avenue, Yonkers, New York 10703 at a cost of thirty nine dollars and ninety five
- 24 cents (\$39.95). Any fluoridation product used by a water system shall meet the requirements of Rule .1537 of this
- 25 <u>Subchapter.</u>
- 26
- 27 History Note: Authority <u>G.S. 90A-29;</u> G.S. 130A-316;
- 28 *Eff. February 1, 1976;*
- 29 Readopted Eff. December 5, 1977;
- 30 Amended Eff. <u>April 1, 2014; July 1, 1994; September 1, 1990; December 17, 1979.</u>

- 15A NCAC 18C .1505 is amended pursuant to G.S. 150B-21.5(a)(2)&(4) as follows:
- 3 TURBIDITY SAMPLING AND ANALYSIS 15A NCAC 18C .1505 4 The requirements of this Rule shall apply only to public water systems that use water obtained in whole or in part 5 from surface sources. The provisions of 40 C.F.R. 141.22 are hereby incorporated by reference including any 6 subsequent amendments and editions. This material is available for inspection at the Department of Environment 7 and Natural Resources, Division of Environmental Health, 2728 Capital Boulevard, Raleigh, North Carolina. 8 Copies may be obtained from the Environmental Protection Agency's (USEPA) Drinking Water Hotline at 1 800-9 426 4791 or from EPA's homepage at http://www.epa.gov/OGWDW/. Copies are available for public inspection as 10 set forth in Rule 18C .0102 of this Subchapter. Any dates set forth in the federal rule shall be applicable. 11

12	History Note:	Authority G.S. 130A-315; P.L. 93-523; 40 C.F.R. 141;
13		Eff. September 1, 1979;
14		Amended Eff. March 31, 1981; December 19, 1979;
15		Transferred and Recodified from 10 NCAC 10D .1623 Eff. April 4, 1990;
16		Amended Eff. <u>April 1, 2014;</u> August 1, 2002; January 1, 1991; September 1, 1990.

15A NCAC 18C .1506 is amended pursuant to G.S. 150B-21.5(a)(2)&(4) as follows:

_		
3	15A NCAC 18	C .1506 MAXIMUM CONTAMINANT LEVELS FOR TURBIDITY
4	The requirement	ts of this Rule shall apply to public water systems that use water obtained in whole or in part from
5	surface water s	ources. The provisions of 40 C.F.R. 141.13 are hereby incorporated by reference including any
6	subsequent ame	endments and editions. This material is available for inspection at the Department of Environment
7	and Natural Re	esources, Division of Environmental Health, 2728 Capital Boulevard, Raleigh, North Carolina.
8	Copies may be	obtained from the Environmental Protection Agency's (USEPA) Drinking Water Hotline at 1-800-
9	4 26 4791 or fre	m EPA's homepage at http://www.epa.gov/OGWDW/. Copies are available for public inspection as
10	set forth in Rule	e 18C .0102 of this Subchapter. Any dates set forth in the federal rule shall be applicable.
11		
12	History Note:	Authority G.S. 130A-315; P.L. 93-523; 40 C.F.R. 141;
13		Eff. September 1, 1979;
14		Transferred and Recodified from 10 NCAC 10D .1614 Eff. April 4, 1990;
15		Amended Eff. <u>April 1, 2014; A</u> ugust 1, 2002; January 1, 1991; September 1, 1990.

15A NCAC 18C .1507 is amended pursuant to G.S. 150B-21.5(a)(2)&(4) as follows:

15A NCAC 18C .1507

3 CORROSION CONTROL AND LEAD AND COPPER MONITORING

- 4 (a) Control and adjustment of pH shall be provided for community water systems having water with a pH below
- 5 6.5; such control and adjustment to be approved by the Department. Most waters are corrosive in varying degrees at
- 6 pH 6.5 and slightly above above, and such waters may have pH adjustment.
- 7 (b) The provisions of 40 C.F.R. 141.42 are hereby incorporated by reference including any subsequent amendments
- 8 and editions. This material is available for inspection at the Department of Environment, Health, and Natural
- 9 Resources, Division of Environmental Health, 1330 Saint Mary's Street, Raleigh, North Carolina. Non members
- 10 may obtain copies from the American Water Works Association, Information Services, 6666 West Quincy Avenue,
- 11 Denver, Colorado 80235 at a cost of fifteen dollars (\$15.00) up to 20 pages and thirty cents (\$0.30) per page for
- 12 each additional page. Copies are available for public inspection as set forth in Rule 18C .0102 of this Subchapter.
- 13 (c) The provisions of 40 C.F.R. 141, Subpart I - Control of Lead and Copper are hereby incorporated by reference
- 14 including any subsequent amendments and editions. This material is available for inspection at the Department of
- 15 Environment, Health, and Natural Resources, Division of Environmental Health, 1330 Saint Mary's Street, Raleigh,
- 16 North Carolina. Non members may obtain copies from the American Water Works Association, Information
- 17 Services, 6666 West Quincy Avenue, Denver Colorado 80235 at a cost of fifteen dollars (\$15.00) up to 20 pages and
- 18 thirty cents (\$0.30) per page for each additional page. Copies are available for public inspection as set forth in Rule
- 19 18C .0102 of this Subchapter.
- 20 (d) Travel trailer parks, campgrounds, and marina slips that are community water systems as defined by G.S. 130A-
- 21 313(10), but do not serve 25 or more of the same persons more than six months per year, shall be exempt from 22 the provisions of this Rule.
- 23

24	History Note:	Authority G.S. 130A-315; P.L. 93-523; 40 C.F.R. 141;
25		Eff. September 1, 1979;
26		Amended Eff. October 1, 1982; February 27, 1982;
27		Transferred and Recodified from 10 NCAC 10D .1621 Eff. April 4, 1990;

28 Amended Eff. April 1, 2014; July 1, 1994; October 1, 1992; December 1, 1991.

- 1
- 15A NCAC 18C .1508 is amended pursuant to G.S. 150B-21.5(a)(2)&(4) as follows:
- 2 3 15A NCAC 18C .1508 **INORGANIC CHEMICAL SAMPLING AND ANALYSIS** 4 The provisions of 40 C.F.R. 141.23 are hereby incorporated by reference including any subsequent amendments and 5 editions. This material is available for inspection at the Department of Environment, Health, and Natural Resources, 6 Division of Environmental Health, 1330 Saint Mary's Street, Raleigh, North Carolina. Non members may obtain 7 copies from the American Water Works Association, Information Services, 6666 West Quincy Avenue, Denver, 8 Colorado 80235 at a cost of fifteen dollars (\$15.00) up to 20 pages and thirty cents (\$0.30) per page for each 9 additional page. Copies are available for public inspection as set forth in Rule 18C .0102 of this Subchapter. In 10 addition, two or more water systems that are adjacent and are owned or operated by the same supplier of water and 11 that together serve 15 or more service connections or 25 or more persons shall conform to the following sampling schedule. A water supplier shall submit samples every three years from each section of the water system 12 13 supplied from a separate source. Travel trailer parks, campgrounds, and marina slips that are community water 14 systems as defined by G.S. 130A 313(10), but do not serve 25 or more of the same people more than six months per 15 year shall monitor as specified for transient non community water systems. schedule: 16 a water supplier shall submit samples every three years from each section of the water system (a) 17 supplied from a separate source, and 18 travel trailer parks, campgrounds, and marina slips that are community water systems as defined (b) 19 by G.S. 130A-313(10), but do not serve 25 or more of the same people more than six months per 20 year shall monitor as specified for transient non-community water systems. 21 22 Authority G.S. 130A-315; P.L. 93-523; 40 C.F.R. 141; History Note: 23 Eff. September 1, 1979; 24 Amended Eff. March 1, 1989; February 1, 1987; October 1, 1986; April 1, 1983; 25 Transferred and Recodified from 10 NCAC 10D .1625 Eff. April 4, 1990; Amended Eff. April 1, 2014; July 1, 1994; April 1, 1992; December 1, 1991. 26

15A NCAC 18C .1509 is amended pursuant to G.S. 150B-21.5(a)(2)&(4) as follows:

3 15A NCAC 18C .1509 SPECIAL MONITORING FOR SODIUM

4 (a) Suppliers of water for community water systems shall collect and analyze one sample per plant at the entry point 5 of the distribution system for the determination of sodium concentration levels. Samples must be collected and 6 analyzed annually for systems utilizing surface water sources in whole or in part, and at least every three years for 7 systems utilizing solely ground water sources. The minimum number of samples required to be taken by the system 8 shall be based on the number of treatment plants used by the system, except that multiple wells drawing raw water 9 from a single aquifer may, with Department approval, be considered one treatment plant for determining the 10 minimum number of samples. The supplier of water may be required by the Department to collect and analyze 11 water samples for sodium more frequently in locations where the sodium content is variable.

(b) The supplier of water Suppliers of water for community water systems shall report to the Department the results of the analyses for sodium within the first 10 days of the month following the month in which the sample results were received or within the first 10 days following the end of the required monitoring period as stipulated by the Department, whichever is first. If more than annual sampling is required required, the supplier shall report the average sodium concentration within 10 days of the month following the month in which the analytical results of the last sample used for the annual average was received.

(c) The Department shall notify appropriate local health officials of the sodium levels found in community watersystems.

20 (d) Analyses conducted to determine compliance with this Rule shall be made in accordance with methods adopted 21 by the United States Environmental Protection Agency and codified as 40 C.F.R. 141.41(d) which that are hereby 22 incorporated by reference including any subsequent amendments and editions. This material is available for 23 inspection at the Department of Environment, Health, and Natural Resources, Division of Environmental Health, 24 1330 Saint Mary's Street, Raleigh, North Carolina. Non members may obtain copies from the American Water 25 Works Association, Information Services, 6666 West Quincy Avenue, Denver, Colorado 80235 at a cost of fifteen 26 dollars (\$15.00) up to 20 pages and thirty cents (\$0.30) per page for each additional page. Copies are available for 27 public inspection as set forth in Rule 18C .0102 of this Subchapter. 28 (e) Travel trailer parks, campgrounds, and marina slips that are community water systems as defined by G.S. 130A-

- 313(10), but do not serve 25 or more of the same persons more than six months per year shall be exempt from the
 provisions of this Rule.
- 31

History Note: Authority G.S. 130A-315; P.L. 93-523; 40 C.F.R. 141;
 Eff. February 27, 1982;
 Transferred and Recodified from 10 NCAC 10D .1636 Eff. April 4, 1990;
 Amended Eff. <u>April 1, 2014;</u> July 1, 1994; September 1, 1990.

- 1 2
- 15A NCAC 18C .1510 is amended pursuant to G.S. 150B-21.5(a)(2)&(4) as follows:

4		
3	15A NCAC 18	C .1510 MAXIMUM CONTAMINANT LEVELS FOR INORGANIC CHEMICALS
4	(a) The provisi	ions of 40 C.F.R. 141.11 are hereby incorporated by reference, reference including any subsequent
5	amendments an	d editions, except the maximum contaminant level for arsenic shall be regulated as set forth in
6	Paragraph (c) of	f this Rule. This material is available for inspection at the Department of Environment and Natural
7	Resources, Divi	ision of Environmental Health, 2728 Capital Boulevard, Raleigh, North Carolina. Copies may be
8	obtained from the	he Environmental Protection Agency's (USEPA) Drinking Water Hotline at 1-800-426-4791 or from
9	USEPA's home	page at http://www.epa.gov/safewater. Copies are available for public inspection as set forth in Rule
10	18C .0102 of this Subchapter.	
11	(b) The provisions of 40 C.F.R. 141.62 are hereby incorporated by reference including any subsequent amendments	
12	and editions. T	his material is available for inspection at the Department of Environment and Natural Resources,
13	Division of Env	ironmental Health, 2728 Capital Boulevard, Raleigh, North Carolina. Copies may be obtained from
14	the Environmer	ntal Protection Agency's (USEPA) Drinking Water Hotline at 1 800 426 4791 or from USEPA's
15	homepage at <u>ht</u>	tp://www.epa.gov/safewater. Copies are available for public inspection as set forth in Rule 18C
16	.0102 of this Su	bchapter.
17	(c) Effective January 1, 2002, the maximum contaminant level for arsenic applies to community and non-transient	
18	non-community	water systems are as follows:
19	(1)	The maximum contaminant level for arsenic is 0.010 milligrams per liter, until such time as the
20		USEPA revises the standard to a level lower than 0.010 milligrams per liter at which time the
21		more stringent level shall apply.
22	(2)	Sampling, analytical requirements, and compliance calculations for arsenic shall be conducted as
23		specified for the contaminants in 15A NCAC 18C .1508. Rule .1508 of this Subchapter.
24	(3)	Certified laboratories must report quantifiable results down to at least 0.005 milligrams
25		per liter. liter for arsenic compliance samples effective January 1, 2002.
26	(4)	Water systems with arsenic in excess of the maximum contaminant level from the latest
27		compliance sample must submit by January 1, 2005 a compliance schedule to the Division of
28		Environmental Health, Public Water Supply Section stating the alternative solution that has been
29		selected, the actions to be taken, and the deadline for those actions in order to meet the revised
30		standard by the compliance date. The system must be in compliance with the MCL by January 23,
31		2006. In the interim period, the water system shall provide public notice pursuant to 15A NCAC
32		18C .1523. Exceedence of the maximum contaminant level shall be reported in the Consumer
33		Confidence Report pursuant to 15A NCAC 18C .1538.
34		
35	History Note:	Authority G.S. 130A-315; P.L. 93-523; 40 C.F.R. 141;
36		Eff. September 1, 1979;
37		Amended Eff. October 1, 1986; October 1, 1982; April 1, 1982; March 31, 1981;

1	Transferred and Recodified from 10 NCAC 10D .1616 Eff. April 4, 1990;
2	Amended Eff. April 1, 1992;
3	Temporary Amendment Eff. January 1, 2002;
4	Amended Eff. <u>April 1, 2014;</u> April 1, 2003.

- 1
- 15A NCAC 18C .1515 is amended pursuant to G.S. 150B-21.5(a)(2)&(4) as follows:
- 2 3 15A NCAC 18C .1515 ORGANIC CHEMICALS OTHER THAN TTHM, SAMPLING AND ANALYSIS 4 (a) The requirements of this Rule shall apply to community and non-transient non-community water systems. The 5 provisions of 40 C.F.R. 141.24 are hereby incorporated by reference including any subsequent amendments and 6 editions. This material is available for inspection at the Department of Environment and Natural Resources, Division 7 of Environmental Health, 2728 Capital Boulevard, Raleigh, North Carolina. Copies may be obtained from the 8 Environmental Protection Agency's (USEPA) Drinking Water Hotline at 1 800 426 4791 or from EPA's homepage 9 at http://www.epa.gov/OGWDW/. Copies are available for public inspection as set forth in Rule 18C .0102 of this 10 Subchapter. Any dates set forth in the federal rule shall be applicable. 11 (b) If the result of an analysis made pursuant to Paragraph (a) of this Rule indicates that the level of any 12 contaminant listed in 15A NCAC 18C .1517 Rule 18C .1517 of this Subchapter exceeds the maximum contaminant 13 level, the supplier of water shall report to the Department within 48 hours and initiate three additional analyses 14 within one month. 15 16 Authority G.S. 130A-315; P.L. 93-523; 40 C.F.R. 141; History Note: 17 Eff. September 1, 1979; 18 Amended Eff. November 1, 1989; December 1, 1988; June 1, 1988; October 1, 1982; 19 Transferred and Recodified from 10 NCAC 10D .1624 Eff. April 4, 1990; 20 Amended Eff. April 1, 2014; August 1, 2002; April 1, 1992; December 1, 1991; September 1,
- 21

1990.

1 15A NCAC 18C .1516 is amended pursuant to G.S. 150B-21.5(a)(2)&(4) as follows:

2			
3	15A NCAC 18C	.1516 SPECIAL MONITORING FOR INORGANIC AND ORGANIC CHEMICALS	
4	(a) The provision	s of 40 C.F.R. 141.40 are hereby incorporated by reference including any subsequent amendments	
5	and editions, exc	ept that 40 C.F.R. 141.40(n)(10) is not adopted. This material is available for inspection at the	
6	Department of Er	wironment, Health, and Natural Resources, Division of Environmental Health, 1330 Saint Mary's	
7	Street, Raleigh, N	lorth Carolina. Non members may obtain copies from the American Water Works Association,	
8	Information Servi	ces, 6666 West Quincy Avenue, Denver, Colorado 80235 at a cost of fifteen dollars (\$15.00) up to	
9	20 pages and thir	y cents (\$0.30) per page for each additional page. Copies are available for public inspection as set	
10	forth in Rule 18C	.0102 of this Subchapter.	
11	(b) To comply w	with the monitoring requirements of this Rule Rule, a community water system or non-transient,	
12	non-community v	vater system serving fewer than 150 service connections shall take a single water sample to be	
13	analyzed for inorg	anic and organic chemicals.	
14	(c) Travel trailer	parks, campgrounds, and marina slips that are community water systems as defined by G.S. 130A-	
15	313(10), but do n	313(10), but do not serve 25 or more of the same persons more than six months per year shall be exempt from the	
16	provisions of this	Rule.	
17			
18	History Note:	Authority <u>G.S. 130A-313;</u> G.S. 130A-315; P.L. 93-523; 40 C.F.R. 141;	
19		Eff. June 1, 1988;	
20		Amended Eff. November 1, 1989;	
21		Transferred and Recodified from 10 NCAC 10D .1638 Eff. April 4, 1990;	

22 Amended Eff. <u>April 1, 2014; July 1, 1994; April 1, 1992; December 1, 1991; August 1, 1990.</u>

15A NCAC 18C .1517 is amended pursuant to G.S. 150B-21.5(a)(2)&(4) as follows:

3	15A NCAC 180	C.1517 MAXIMUM CONTAMINANT LEVELS FOR ORGANIC CHEMICALS
4	The provisions of	of 40 C.F.R. 141.12 are hereby incorporated by reference including any subsequent amendments and
5	editions. Howe	ver, the maximum contaminant level for total trihalomethanes shall apply to all community water
6	systems and nor	n-transient, non-community water systems systems, regardless of population which population, that
7	add a disinfecta	int (oxidant) to the water in any part of the drinking water treatment process. This material is
8	available for i	nspection at the Department of Environment, Health, and Natural Resources, Division of
9	Environmental l	Health, 1330 Saint Mary's Street, Raleigh, North Carolina. Non members may obtain copies from
10	the American W	ater Works Association, Information Services, 6666 West Quincy Avenue, Denver, Colorado 80235
11	at a cost of fifte	en dollars (\$15.00) up to 20 pages and thirty cents (\$0.30) per page for each additional page. Copies
12	are available for	public inspection as set forth in Rule 18C .0102 of this Subchapter.
13		
14	History Note:	Authority G.S. 130A-315; P.L. 93-523; 40 C.F.R. 141;
15		Eff. September 1, 1979;
16		Amended Eff. September 30, 1980;
17		Transferred and Recodified from 10 NCAC 10D .1615 Eff. April 4, 1990;

18 Amended Eff. <u>April 1, 2014; April 1, 1992; August 1, 1990</u>.

15A NCAC 18C .1519 is amended pursuant to G.S. 150B-21.5(a)(2)&(4) as follows:

- 3 15A NCAC 18C .1519 MONITORING FREQUENCY FOR RADIOACTIVITY 4 (a) The requirements of this Rule shall apply to community water systems. The provisions of 40 C.F.R. 141.26 are 5 hereby incorporated by reference including any subsequent amendments and editions. This material is available for 6 inspection at the Department of Environment and Natural Resources, Division of Environmental Health, 2728 7 Capital Boulevard, Raleigh, North Carolina. Copies may be obtained from the Environmental Protection Agency's 8 (USEPA) Drinking Water Hotline at 1 800 426 4791 or from EPA's homepage at 9 http://www.epa.gov/OGWDW/. Copies are available for public inspection as set forth in Rule 18C .0102 of this 10 Subchapter. Any dates set forth in the federal rule shall be applicable. 11 (b) An adjacent water system as defined in G.S. 130A 315(b2)shall 130A-315(b2) shall conform to the following 12 sampling schedule as set in paragraph (c) rather than the schedule set forth in 40 C.F.R. 141.26(a) and (b). A water 13 supplier shall take samples for gross alpha particle activity, radium 226, radium 228, and uranium, and for 14 man made radioactivity from the water system when the Secretary determines that the system is in an area subject to 15 radiological contamination. When the sampling is required, a water supplier shall submit samples every four years 16 from each section of the water system supplied from a separate source. 17 (c) When the Secretary determines that the system is in an area subject to radiological contamination, a water 18 supplier shall take samples for the following contaminants: 19 (1)gross alpha particle activity; 20 (2)radium-226; 21 (3) radium-228; 22 (4) uranium; and 23 (5) man-made radioactivity from the water system. 24 When the sampling is required, a water supplier shall submit samples every four years from each section of the 25 water system supplied from a separate source. 26 (c) (d) Travel trailer parks, campgrounds, and marina slips that are community water systems as defined by G.S. 27 130A-313(10), but do not serve 25 or more of the same persons more than six months per year shall monitor the 28 same as required by adjacent systems in Paragraph (b) of this Rule. 29 30 Authority G.S. 130A-313; G.S. 130A-315; P.L. 93-523; 40 C.F.R. 141; History Note: 31 Eff. September 1, 1979; 32 Amended Eff. March 1, 1989; September 9, 1980; December 19, 1979; 33 Transferred and Recodified from 10 NCAC 10D .1627 Eff. April 4, 1990;
- 34 Amended Eff. <u>April 1, 2014;</u> August 1, 2002; July 1, 1994.

15A NCAC 18C .1520 is amended pursuant to G.S. 150B-21.5(a)(2)&(4) as follows:

- 3 15A NCAC 18C .1520 MAXIMUM CONTAMINANT LEVELS FOR RADIONUCLIDES
- 4 The provisions of 40 C.F.R. 141.66 are hereby incorporated by reference including any subsequent amendments and
- 5 editions. This material is available for inspection at the Department of Environment and Natural Resources,
- 6 Division of Environmental Health, 2728 Capital Boulevard, Raleigh, North Carolina. Copies may be obtained from
- 7 the Environmental Protection Agency's (USEPA) Drinking Water Hotline at 1 800 426 4791 or from EPA's
- 8 homepage at http://www.epa.gov/OGWDW/. Copies are available for public inspection as set forth in Rule 18C
- 9 <u>.0102 of this Subchapter.</u>
- 10

11 History Note: Authority G.S. 130A-315; P.L. 93-523; 40 C.F.R. 141;

- 12 *Eff. September 1, 1979;*
- 13 Transferred and Recodified from 10 NCAC 10D .1617 Eff. April 4, 1990;
- 14 Amended Eff. <u>April 1, 2014;</u> August 1, 2002; July 1, 1994.
15A NCAC 18C .1521 is amended pursuant to G.S. 150B-21.5(a)(2)&(4) as follows:

- 3 15A NCAC 18C .1521 MAXIMUM CONTAMINANT LEVEL GOALS FOR RADIONUCLIDES
- 4 The provisions of 40 C.F.R. 141.55 are hereby incorporated by reference including any subsequent amendments and
- 5 editions. This material is available for inspection at the Department of Environment and Natural Resources,
- 6 Division of Environmental Health, 2728 Capital Boulevard, Raleigh, North Carolina. Copies may be obtained from
- 7 the Environmental Protection Agency's (USEPA) Drinking Water Hotline at 1 800 426 4791 or from EPA's
- 8 homepage at http://www.epa.gov/OGWDW/. Copies are available for public inspection as set forth in Rule 18C
- 9 <u>.0102 of this Subchapter.</u>
- 10

11 History Note: Authority G.S. 130A-315; P.L. 93-523; 40 C.F.R. 141;

- 12 *Eff. September 1, 1979;*
- 13 Transferred and Recodified from 10 NCAC 10D .1618 Eff. April 4, 1990;
- 14 Amended Eff. <u>April 1, 2014;</u> August 1, 2002; July 1, 1994.

15

15A NCAC 18C .1522 is amended pursuant to G.S. 150B-21.5(a)(2)&(4) as follows:

3 15A NCAC 18C .1522 ANALYTICAL METHODS FOR RADIOACTIVITY

4	The provisions	of 40 C.F.R. 141.25 are hereby incorporated by reference including any subsequent amendments and
5	editions. This	material is available for inspection at the Department of Environment and Natural Resources,
6	Division of En	vironmental Health, 2728 Capital Boulevard, Raleigh, North Carolina. Copies may be obtained from
7	the Environme	ntal Protection Agency's (USEPA) Drinking Water Hotline at 1 800 426 4791 or from EPA's
8	homepage at <u>h</u>	ttp://www.epa.gov/OGWDW/- Copies are available for public inspection as set forth in Rule 18C
9	.0102 of this Su	bchapter.
10		
11	History Note:	Authority G.S. 130A-315; P.L. 93-523; 40 C.F.R. 141;
12		Eff. September 1, 1979;
13		Amended Eff. March 31, 1981; March 31, 1980;
14		Transferred and Recodified from 10 NCAC 10D .1626 Eff. April 4, 1990;

Amended Eff. April 1, 2014; August 1, 2002; September 1, 1990.

- 1 2
- 15A NCAC 18C .1523 is amended pursuant to G.S. 150B-21.5(a)(2)&(4) as follows:
- 3 15A NCAC 18C .1523 PUBLIC NOTIFICATIO

15A NCAC 18C .1523 PUBLIC NOTIFICATION REQUIREMENTS 4 (a) The provisions of 40 C.F.R. 141.32 are hereby incorporated by reference including any subsequent amendments 5 and editions, except that multi-lingual notice shall be given if 30 percent or more of the consumers served by the 6 system are non-English speaking. This material is available for inspection at the Department of Environment and 7 Natural Resources, Division of Environmental Health, 2728 Capital Boulevard, Raleigh, North Carolina. Copies 8 may be obtained from the Environmental Protection Agency's (USEPA) Drinking Water Hotline at 1 800 426 4791 9 or from EPA's homepage at http://www.epa.gov/OGWDW/. Copies are available for public inspection as set forth in 10 Rule 18C .0102 of this Subchapter. 11 (b) The provisions of 40 C.F.R. 141, Subpart Q – Public Notification of Drinking Water Violations are hereby 12 incorporated by reference including any subsequent amendments and editions. This material is available for 13 inspection at the Department of Environment and Natural Resources, Division of Environmental Health, 2728 14 Capital Boulevard, Raleigh, North Carolina. Copies may be obtained from the Environmental Protection Agency's 15 (USEPA) Drinking Water Hotline at 1 800 426 4791 or from EPA's homepage 16 at http://www.epa.gov/OGWDW/. Copies are available for public inspection as set forth in Rule 18C .0102 of this 17 Subchapter. 18 (c) Special notification for distribution system samples. The requirements of this Paragraph shall be additional to 19 the public notice requirements in Paragraphs (a) and (b) of this Rule and to the reporting requirements contained in 20 Rule .1525 of this Subchapter. When a distribution sample is taken on property not owned or controlled by the 21 supplier of water, the supplier of water shall notify the person authorizing the sample if any individual water sample 22 exceeds an action level, MCL or MRDL maximum contaminant level, or maximum residual disinfectant level

established in this Subchapter, or if any individual sample is positive for coliform bacteria. The supplier of water
shall give notice to the person authorizing the sample in a format provided by the Department, as follows:

- (1) For a contaminant listed as Tier 1 in Appendix A to 40 C.F.R. 141, Subpart Q, notice shall be
 provided by telephone by telephone within 24 hours of receipt of analytical results and shall be
 followed by written notice by mail or direct delivery within 48 hours of receipt. The written
 notice shall include the analytical results and appropriate health effects language.
- 29 (2) For a contaminant listed as Tier 2 or Tier 3 in Appendix A to 40 C.F.R. 141, Subpart Q, notice
 30 shall be provided within 48 hours of receipt of analytical results. Written notice shall be provided
 31 by mail or direct delivery to the person authorizing the sample and shall include the analytical
 32 results and appropriate health effects language.
- 33 (3) The supplier of water shall submit a copy of the written notice and certification of delivery to the
 34 Department within 10 days of completing notification.

The person authorizing the sample may waive the notification required by this Paragraph. The waiver shall be documented in writing and signed by the authorizing person. The waiver is valid for five years and is renewable.

37

1	History Note:	Authority G.S. 130A-315; P.L. 93-523; 40 C.F.R. 141;
2		Eff. January 1, 1990;
3		Transferred and Recodified from 10 NCAC 10D .1642 Eff. April 4, 1990;
4		Amended Eff. <u>April 1, 2014;</u> October 1, 2006; August 1, 2002; April 1, 1992; December 1, 1991;
5		January 1, 1991; October 1, 1990.

15A NCAC 18C .1525 is amended pursuant to G.S. 150B-21.5(a)(2)&(4) as follows:

3 15A NCAC 18C .1525 REPORTING REQUIREMENTS

4 (a) The requirements of this Rule shall apply to all public water systems. The provisions of 40 C.F.R. 141.31 are 5 hereby incorporated by reference including any subsequent amendments and editions. This material is available for 6 inspection at the Department of Environment and Natural Resources, Division of Environmental Health, 2728 7 Capital Boulevard, Raleigh, North Carolina. Copies may be obtained from the Environmental Protection Agency's 8 (USEPA) Drinking Water Hotline at 1 800 426 4791 or from EPA's homepage at 9 http://www.epa.gov/OGWDW/. Copies are available for public inspection as set forth in Rule 18C .0102 of this 10 Subchapter. Any dates set forth in the federal rule shall be applicable. 11 (b) When a certified laboratory analyzes a compliance sample for a supplier of water, the certified laboratory shall 12 report the results to both the Department and to the supplier of water or his designated representative within the 13 required periods as set forth in 40 C.F.R. 141.31. The laboratory reporting to the State Department shall include 14 analytical results for any MCL maximum contaminant level exceedence within the timeframes applicable to the 15 system owner. Reporting shall be in a format, to include electronic reporting, provided by the Department and 16 shall contain all required information. be filled out completely. Should a certified laboratory fail to properly report a 17 compliance sample result, it shall be the responsibility of the supplier of water to report results to the Department as 18 required by this Rule. 19 20 History Note: Authority G.S. 130A-315; 40 C.F.R 141; 21 Eff. September 1, 1979; 22 Amended Eff. February 1, 1987; October 1, 1984; March 31, 1981; March 31, 1980; 23 Transferred and Recodified from 10 NCAC 10D .1631 Eff. April 4, 1990;

24 Amended Eff. <u>April 1, 2014; August 1, 2002; January 1, 1991.</u>

15A NCAC 18C .1526 is amended pursuant to G.S. 150B-21.5(a)(2)&(4) as follows:

3 15A NCAC 18C .1526 RECORD MAINTENANCE

4	The provisions	of 40 C.F.R. 141.33 are hereby incorporated by reference including any subsequent amendments and
5	editions. This	material is available for inspection at the Department of Environment and Natural Resources,
6	Division of Env	rironmental Health, 2728 Capital Boulevard, Raleigh, North Carolina. Copies may be obtained from
7	the Environme	ntal Protection Agency's (USEPA) Drinking Water Hotline at 1 800 426 4791 or from EPA's
8	homepage at ht	tp://www.epa.gov/OGWDW/. Copies are available for public inspection as set forth in Rule 18C
9	.0102 of this Su	bchapter.
10		
11	History Note:	Authority G.S. 130A-315; P.L. 93-523; 40 C.F.R. 141;
12		Eff. September 1, 1979;
13		Transferred and Recodified from 10 NCAC 10D .1632 Eff. April 4, 1990;
14		Amended Eff. <u>April 1, 2014; August 1, 2002</u> .

15A NCAC 18C .1534 is amended pursuant to G.S. 150B-21.5(a)(2)&(4) as follows:

3

15A NCAC 18C .1534 **COLIFORM SAMPLING**

4 (a) The provisions of 40 C.F.R. 141.21 are hereby incorporated by reference including any subsequent amendments

5 and editions. This material is available for inspection at the Department of Environment, Health, and Natural

6 Resources, Division of Environmental Health, 1330 Saint Mary's Street, Raleigh, North Carolina. Non members

7 may obtain copies from the American Water Works Association, Information Services, 666 West Quincy Avenue,

8 Denver, Colorado 80235 at a cost of fifteen dollars (\$15.00) up to 20 pages and thirty cents (\$0.30) per page for

9 each additional page. Copies are available for public inspection as set forth in Rule 18C .0102 of this Subchapter.

- 10 The provisions are incorporated with the following exceptions:
- 11 (1)The the provision of 40 C.F.R. 141.21(a)(2) concerning the reduction of monitoring frequency for 12 community water systems serving 25 to 1,000 persons is not adopted;
- 13 (2)The the provision of 40 C.F.R. 141.21(b)(3) concerning collection of large volume repeat samples 14 in containers of any size is not adopted; and
- 15 The the provision of 40 C.F.R. 141.21(c)(2) concerning waiver of the 24-hour limit for (3) 16 re-sampling is not adopted.

17 (b) An adjacent water system shall submit samples monthly from each section of the water system supplied from a

18 separate source. The minimum number of samples each month per section is based on the population served by the

- 19 section and shall be determined by the table in 40 C.F.R. 141.21(a)(2).
- 20 21

History Note: Authority G.S. 130A-315; P.L. 93-523; 40 C.F.R. 141.21;

- 22 *Eff. January 1, 1991;*
- 23 Amended Eff. April 1, 2014; February 1, 1992.

1	
2	

15A NCAC 18C .1536 is amended pursuant to G.S. 150B-21.5(a)(2)&(4) as follows:				
	15A NCAC 18C .1536 is amended	pursuant to G.S.	. 150B-21.5(a)(2)&(4)	as follows:

3 15A NCAC 18C .1536 TREATMENT TECHNIQUES

4	The provisions of 40 C.F.R. 141. Subpart K are hereby incorporated by reference including any subsequent
5	amendments and editions. This material is available for inspection at the Department of Environment, Health, and
6	Natural Resources, Division of Environmental Health, 1330 Saint Mary's Street, Raleigh, North Carolina.
7	Non members may obtain copies from the American Water Works Association, Information Services, 6666 West
8	Quincy Avenue, Denver, Colorado 80235 at a cost of fifteen dollars (\$15.00) up to 20 pages and thirty cents (\$0.30)

9 per page for each additional page. Copies are available for public inspection as set forth in Rule 18C .0102 of this

- 10 <u>Subchapter.</u>
- 11

12 History Note: Authority G.S. 130A-315; P.L. 93-523; 40 C.F.R. 141;

- 13 *Eff. April 1*, 1992.<u>1992;</u>
- 14 <u>Amended Eff. April 1, 2014.</u>

15A NCAC 18C .1537 is amended pursuant to G.S. 150B-21.5(a)(2)&(4) as follows:

3 15A NCAC 18C .1537 DRINKING WATER ADDITIVES

4 (a) The standards set forth in American National Standards Institute/NSF International, codified at ANSI/NSF 5 Standard 60 and ANSI/NSF Standard 61, are hereby incorporated by reference including any subsequent 6 amendments and editions. This material is available for inspection at the Department of Environment, Health, and 7 Natural Resources, Division of Environmental Health, 1330 Saint Mary's Street, Raleigh, North Carolina. Copies of 8 ANSI/NSF 60: Drinking Water Treatment Chemicals Health Effects or ANSI/NSF 61: Drinking Water System 9 Components Health Effects may be obtained at a cost of forty five dollars (\$45.00) each from NSF International 10 from their web site., P. O. Box 130140, Ann Arbor, Michigan 48113 0140. Copies are available for public 11 inspection as set forth in Rule 18C .0102 of this Subchapter. 12 (b) A water supply product used in a public water system shall meet the standards incorporated by reference in 13 Paragraph (a) of this Rule. A product certified by an organization having a third-party certification program 14 accredited by the American National Standards Institute to test and certify such products is acceptable for use in a 15 public water system. 16 (c) A supplier of water shall maintain a list of all water supply products used in a public water system for inspection 17 by the Department. Prior to using a product not previously listed, a supplier of water shall either determine the 18 product is certified as required by Paragraph (b) of this Rule or notify the Department of the type, name and 19 manufacturer of a product. 20 (d) A supplier of water shall not willfully introduce or permit the introduction of a water supply product into a 21 public water system which does not meet the requirements of this Rule. 22 23 History Note: Authority G.S. 103A 315; 130A-315; P.L. 93-523; 24 Eff. July 1, 1994.1994;

25

Amended Eff. April 1, 2014.

- 1 2
- 15A NCAC 18C .1538 is amended pursuant to G.S. 150B-21.5(a)(2)&(4) as follows:

3	15A NCAC 18C	.1538	CONSUME	R CONFIDE	ENCE RI	EPORT				
4	(a) The provisi	ions of 4	0 C.F.R. 141	, Subpart O	- Consu	mer Confide	ence Reports	are hereb	y incorp	orated by
5	reference includ	ing any	subsequent an	mendments a	and edition	ons. This m	aterial is av	ailable for	inspecti	ion at the
6	Department of H	Environme	ent and Natur	al Resources	, Divisic	n of Enviro	nmental Hea	lth, 2728 (Capital I	Boulevard,
7	Raleigh, North (Carolina	Copies may	be obtain fre	om the E	nvironmenta	1 Protection	Agency's (USEPA)	Drinking
8	Water Hotline	at 18	300 426 4791	or from	EPA's	Consumer	Confidence	-Report-	Rule	homepage
9	at <u>http://www.ep</u>	<u>a.gov/saf</u>	ewater/ccr1.ht	<u>ml.</u> Copies an	re availal	ole for public	c inspection a	is set forth	in Rule	18C .0102
10	of this Subchapte	er.								
11	(b) Travel trailer	r parks, ca	ampgrounds, a	and marina sl	ips that a	re communi	ty water syste	ms as defin	ned by G	i.S. 130A-
12	313(10), but do	not serve	25 or more of	f the same pe	ersons mo	ore than six	months per y	ear shall b	e exemp	t from the
13	provisions of this	s Rule.								
14										
15	History Note:	Authorit	ty <u>G.S. 130A-3</u>	<u>813;</u> G.S. 130	A-315; P	.L. 93-523; 4	40 C.F.R. 141	!;		
16		Eff. Aug	ust 1, 2000.<u>20</u>	<u>)00;</u>						
17		Amende	d Eff. April 1,	2014.						

15A NCAC 18C .1605 is amended pursuant to G.S. 150B-21.5(a)(2) as follows:

2		
3	15A NCAC 18	C .1605 PUBLIC HEARINGS ON VARIANCES AND SCHEDULES
4	(a) Before a v	ariance or a schedule proposed by the Secretary pursuant to Rule .1604 of this Section may take
5	effect, the Secr	etary shall provide notice and opportunity for public hearing on the variance or schedule. Such
6	notice may cov	er the granting of more than one variance, and a hearing held pursuant to such notice shall include
7	each of the varia	ances covered by that notice.
8	(b) Public notic	e of an opportunity for hearing on a variance or schedule shall be circulated in a manner designed to
9	inform intereste	d and potentially interested persons of the proposed variance or schedule and shall include at least
10	the following: tl	he following miminum requirements:
11	(1)	Posting posting of a notice in the principal post office of each municipality or area served by the
12		public water system, and publishing of a notice in a newspaper or newspapers of general
13		circulation in the area served by the public water system; and
14	(2)	Mailing mailing of a notice to the Public Water Supply Section, Division of Environmental
15		Health-Water Resources and to other appropriate state or local agencies at the Department's
16		discretion; and
17	(3)	Such such notice shall include a summary of the proposed variance or schedule and shall inform
18		interested persons that they may request a public hearing on the proposed variance or schedule.
19	(c) Requests for	r hearing may be submitted by any interested person. Frivolous or insubstantial requests for hearing
20	may be denied	by the Secretary. Requests must shall be submitted to the Secretary within 30 days after issuance of
21	the public notice	e provided for in <u>Paragraph</u> (b) of this Rule. Such requests shall include the following information:
22	(1)	the name, address and telephone number of the individual, organization or other entity requesting
23		a hearing;
24	(2)	a brief statement of the interest of the person individual, organization or other entity making the
25		request in the proposed variance or schedule and of information that the-requesting
26		person requestor intends to submit at such hearing; and
27	(3)	the signature of the individual making the request or if the request is made on behalf of an
28		organization or other entity, the signature of a responsible official of the organization or other
29		entity.
30	(d) Any hearing	ng held pursuant to a request submitted by an interested person individual, organization or other
31	entity or on th	e Secretary's own motion shall be conducted in the manner set forth in G.S. 150B-22 through
32	150B-37.	
33		
34	History Note:	Authority G.S. 130A-315; 130A-321; P.L. 93-523; 40 C.F.R. 142;
35		Eff. September 1, 1979;
36		Transferred and Recodified from 10 NCAC 10D .2505 Eff. April 4, 1990;
37		Amended Eff. <u>April 1, 2014; S</u> eptember 1, 1991.

- 1 15A NCAC 18C .1607 is amended pursuant to G.S. 150B-21.5(a)(2)&(4) as follows:
- 2

3 15A NCAC 18C .1607 VARIANCES AND EXEMPTIONS FOR CHEMICALS, LEAD AND COPPER, 4 AND RADIONUCLIDES

- 5 (a) The provisions of 40 C.F.R. 142.62 are hereby incorporated by reference including any subsequent amendments 6 and editions. This material is available for inspection at the Department of Environment and Natural Resources, 7 Division of Environmental Health, 2728 Capital Boulevard, Raleigh, North Carolina. Copies may be obtained from 8 the Environmental Protection Agency's (USEPA) Drinking Water Hotline at 1 800 426 4791 or from EPA's 9 homepage at http://www.epa.gov/OGWDW/. Copies are available for public inspection as set forth in Rule 18C 10 .0102 of this Subchapter. 11 (b) The provisions of 40 C.F.R. 142.65 are hereby incorporated by reference including any subsequent amendments 12 and editions. This material is available for inspection at the Department of Environment and Natural Resources, 13 Division of Environmental Health, 2728 Capital Boulevard, Raleigh, North Carolina. Copies may be obtained from
- 14 the Environmental Protection Agency's (USEPA) Drinking Water Hotline at 1 800 426 4791 or from EPA's
- 15 homepage at http://www.epa.gov/OGWDW/. Copies are available for public inspection as set forth in Rule 18C
- 16 <u>.0102 of this Subchapter.</u>
- 17

- 19 *Eff. June 1, 1988;*
- 20 Transferred and Recodified from 10 NCAC 10D .2514 Eff. April 4, 1990;
- 21 Amended Eff. <u>April 1, 2014;</u> August 1, 2002; October 1, 1992.

15A NCAC 18C .1612 is amended pursuant to G.S. 150B-21.5(a)(2) as follows:

2 3 15A NCAC 18C .1612 PUBLIC HEARINGS ON EXEMPTION SCHEDULES 4 (a) Before a schedule proposed by the Secretary pursuant to Rule .1611 of this Section may take effect, the 5 Secretary shall provide notice and opportunity for public hearing on the schedule. Such notice may cover the 6 proposal of more than one such schedule and a hearing held pursuant to such notice shall include each of the 7 schedules covered by the notice. 8 (b) Public notice of an opportunity for hearing on an exemption schedule shall be circulated in a manner designed to 9 inform interested and potentially interested persons of the proposed schedule, and shall include at least the 10 following: the following mimimum requirements: 11 (1)Posting posting of a notice in the principal post office of each municipality or area served by the 12 public water system, and publishing a notice in the newspaper or newspapers of general 13 circulation in the area served by the public water system; 14 (2) Mailing mailing of a notice to the Public Water Supply Section, Division of Environmental 15 Health-Water Resources and to other appropriate state or local agencies at the Secretary's 16 discretion; and 17 Such such notices shall include a summary of the proposed schedule and shall inform interested (3) 18 persons that they may request a public hearing on the proposed schedule. 19 (c) Requests for hearing may be submitted by any interested person. Frivolous or insubstantial requests for hearing 20 may be denied by the Secretary. Requests must shall be submitted to the Secretary within 30 days after issuance of 21 the public notices provided for in <u>Paragraph</u> (b) of this Rule. Such requests shall include the following information: 22 (1)the name, address and telephone number of the individual, organization or other entity requesting 23 a hearing; 24 (2)a brief statement of the interest of the person individual, organization or other entity making the 25 request in the proposed schedule and of information that the requesting person requestor intends to 26 submit at such hearing; and 27 the signature of the individual making the request, or, if the request is made on behalf of an (3) 28 organization or other entity, the signature of a responsible official of the organization or other 29 entity. 30 (d) Any hearing held pursuant to a request submitted by an interested person individual, organization or other entity 31 or on the Secretary's own motion shall be conducted in the manner set forth in G.S. 150B-22 through 150B-37. 32 33 History Note: Authority G.S. 130A-315; 130A-321; P.L. 93-523; 40 C.F.R. 142; 34 Eff. September 1, 1979; 35 Transferred and Recodified from 10 NCAC 10D .2510 Eff. April 4, 1990; 36 Amended Eff. April 1, 2014; December 1, 1991.

1	15A NCAC 18C	.1701 is repealed pursuant to G.S. 150B-21.5(b)(1) as follows:
2		
3	15A NCAC 18C	.1701 PURPOSE
4		
5	History Note:	Authority S.L. 1971, Ch. 909, as amended by S.L. 1973, Ch. 232;
6		S.L. 1977, Ch. 677;
7		Eff. June 30, 1978.<u>1</u>978;
8		<u>Repealed Eff. April 1, 2014.</u>

1	15A NCAC 180	.1702 is repealed pursuant to G.S. 150B-21.5(b)(1) as follows:
2		
3	15A NCAC 180	.1702 GRANT COMMITMENTS FROM CURRENT ALLOCATION
4		
5	History Note:	Authority S.L. 1977, Ch. 677;
6		Eff. June 30, 1978.<u>1</u>978;
7		<u>Repealed Eff. April 1, 2014.</u>

1	15A NCAC 18C .1703 is repealed pursuant to G.S. 150B-21.5(b)(1) as follows:								
2									
3	15A NCAC 180	C .1703	COUNTY	ALLOCATIONS	COMMITTED	BEFORE	STATEWIDE		
4	ALLOCATION								
5									
6	History Note:	Author	ity S.L. 1977, C	Th. 677;					
7		Eff. Jur	1e 30, 1978.<u>197</u>	7 <u>8;</u>					
8		<u>Repeal</u>	ed Eff. April 1,	<u>2014.</u>					

1	15A NCAC 18C	.1704 is repealed pursuant to G.S. 150B-21.5(b)(1) as follows:
2		
3	15A NCAC 180	2.1704 REFERENCE RULE
4		
5	History Note:	Authority G.S. S.L. 1971, Ch. 909, as amended by S.L. 1973, Ch. 232;
6		S.L. 1977, Ch. 677;
7		Eff. June 30, 1978.<u>1978.</u>
8		<u>Repealed Eff. April 1, 2014.</u>

1 15A NCAC 18C .1906 is amended pursuant to G.S. 150B-21.5(a)(2) as follows:

2				
3	15A NCAC 18C	.1906	CONSI	DERATIONS IN ASSESSING ADMINISTRATIVE PENALTIES
4	In determining th	ne amour	nt of the	assessment, the Department or its delegates shall consider the following criteria
5	and shall cite whi	ch provi	sions the	provisions that are applicable:
6	(1)	nature o	of the vio	plation and the degree and extent of the harm, including but not limited to the
7		followin	ıg:	
8		(a)	for a vi	olation of the North Carolina Drinking Water Act, Article 10 of Chapter 130A,
9			and the	rules adopted thereunder: Rules in this Subchapter:
10			(i)	type of violation,
11			(ii)	type of contaminant involved,
12			(iii)	duration,
13 14			(iv)	cause (whether resulting from a negligent, reckless or intentional act <u>act</u> , or omission),
15			(v)	potential effect on public health and the environment,
16			(vi)	effectiveness of responsive measures taken by the violator,
17			(vii)	damage to private property, and
18			(viii)	size of the water system and population exposed;
19		(b)	for a vie	plation of an order issued under the North Carolina Drinking Water Act, Article
20			10 of Cl	hapter 130A:
21			(i)	subject matter of order; <u>order</u> ,
22			(ii)	duration; duration,
23			(iii)	cause (whether resulting from a negligent, reckless or intentional act act,
24				or omission); <u>omission),</u>
25			(iv)	type of violation, if any; <u>any,</u>
26			(v)	potential effect on public health and the environment; environment, and
27			(vi)	effectiveness of responsive measures taken by violator;
28		(c)	for refu	sing to allow an authorized representative of the Commission for Public Health,
29			any loc	al board of health, or the Department of Environment, Health, and Natural
30			Resourc	es a right of entry as provided for in G.S. 130A-17:
31			(i)	type of other violation, if any,
32			(ii)	duration of refusal, and
33			(iii)	potential effect on public health and the environment;
34		(d)	for failu	re to give adequate public notice as required by G.S. 130A-324:
35			(i)	inadequacy of type of notice,
36			(ii)	misleading in nature,
37			(iii)	delay in providing notice, and

1		(iv) potential effect on public health from failure to give adequate notice;
2	(2)	cost of rectifying any damage; and
3	(3)	the violator's previous record in complying or not complying with the North Carolina Drinking
4		Water Act, Article 10 of Chapter 130A and the regulations adopted thereunder. Rules in this
5		Subchapter.
6		
7	History Note:	Authority G.S. 130A-22(f); G.S. 130A-17; G.S. 130A-324;
8		Eff. September 1, 1979;
9		Amended Eff. <u>April 1, 2014;</u> October 1, 1984.

15A NCAC 18C .2002 is amended pursuant to G.S. 150B-21.5(a)(2)&(4) as follows:

3 15A NCAC 18C .2002 DISINFECTION

4 The provisions of 40 C.F.R. 141.72 are hereby adopted by reference in accordance with G.S. 150B-21.6 including 5 subsequent amendments and editions. This material is available for inspection at the Department of Environment 6 and Natural Resources, Division of Environmental Health, 2728 Capital Boulevard, Raleigh, North Carolina. Copies 7 are available for public inspection as set forth in Rule 18C .0102 of this Subchapter. These provisions are adopted 8 with the following exceptions: 9 Water entering the distribution system. In 40 C.F.R. 141.72 (a)(2), $\frac{(a)(3)}{(a)(3)}$ (a)(3), and (b)(2), "0.2 (1)10 mg/l" of residual disinfectant concentration shall be replaced with "0.2 mg/l measured as free 11 chlorine when chlorine is the singular applied disinfectant and 1.0 mg/l measured as total chlorine 12 when ammonia and chlorine are applied disinfectants". disinfectants." 13 (2)Water in the distribution system at Coliform Sampling Sites. coliform sampling sites. In 40 14 C.F.R. 141.72(a)(4) and (b)(3), "undetectable" shall be replaced with "less than 0.2 mg/1 measured 15 as free chlorine when chlorine is the singular applied disinfectant and less than 1.0 mg/l measured 16 as total chlorine when ammonia and chlorine are applied disinfectants". disinfectants." 17 Water in the distribution system at Maximum Residence Time Sites. maximum residence time (3) 18 sites. For samples collected at maximum residence time sites or at other locations with high water 19 age as required by 15A NCAC 18C .1302(a)(2), Rule 18C .1302(a)(2) of this Subchapter, residual 20 disinfectant concentrations shall be at detectable levels as set forth and calculated in 40 C.F.R. 21 141.72(a)(4) and (b)(3). 22 23 History Note: Authority G.S. 130A-315; P.L. 93-523; 40 C.F.R. 141.72; 24 *Eff. January 1, 1991;* 25 Amended Eff. April 1, 2014; October 1, 2009.

- 1 2
- 15A NCAC 18C .2003 is amended pursuant to G.S. 150B-21.5(a)(2)&(4) as follows:
- 3 15A NCAC 18C .2003 FILTER BACKWASH RECYCLING RULE

4 (a) The requirements of this Rule shall apply to a public water system that uses a surface water source or a 5 groundwater source under the direct influence of surface water. The provisions of 40 C.F.R. 141.73 are hereby 6 incorporated by reference including any subsequent amendments and editions. This material is available for 7 inspection at the Department of Environment and Natural Resources, Division of Environmental Health, 2728 8 Capital Boulevard, Raleigh, North Carolina. Copies may be obtained from the Environmental Protection Agency's 9 (USEPA) Drinking Water Hotline at 1 800 426 4791 or from EPA's homepage at 10 http://www.epa.gov/OGWDW/. Copies are available for public inspection as set forth in Rule 18C .0102 of this 11 Subchapter. Any dates set forth in the federal rule shall be applicable. 12 (b) The requirements of this Rule shall apply to a public water system that uses a surface water source or a 13 groundwater source under the direct influence of surface water, water; uses direct or conventional 14 filtration processes processes; and recycles spent filter backwash water, sludge thickener supernatant, or liquids 15 from dewatering processes. The provisions of 40 C.F.R. 141.76 are hereby incorporated by reference including any 16 subsequent amendments and editions. This material is available for inspection at the Department of Environment 17 and Natural Resources, Division of Environmental Health, 2728 Capital Boulevard, Raleigh, North Carolina. 18 Copies may be obtained from the Environmental Protection Agency's (USEPA) Drinking Water Hotline at 1-800-19 426 4791 or from EPA's homepage at http://www.epa.gov/OGWDW/. Copies are available for public inspection as 20 set forth in Rule 18C .0102 of this Subchapter. Any dates set forth in the federal rule shall be applicable. 21 22

23

Authority G.S. 130A-315; P.L. 93-523; 40 C.F.R. 141.73; 40 C.F.R. 141.76; History Note:

- *Eff. January 1, 1991;*
- 24 Amended Eff. April 1, 2014; August 1, 2002.

15A NCAC 18C .2004 is amended pursuant to G.S. 150B-21.5(a)(2)&(4) as follows:

3 15A NCAC 18C .2004 ANALYTICAL AND MONITORING REQUIREMENTS

The provisions of 40 C.F.R. 141.74 are hereby adopted by reference in accordance with G.S. 150B-21.6 including
subsequent amendments and editions. This material is available for inspection at the Department of Environment
and Natural Resources, Division of Environmental Health, 2728 Capital Boulevard, Raleigh, North Carolina. Copies
are available for public inspection as set forth in Rule 18C .0102 of this Subchapter. These provisions are adopted
with the following exceptions:
(1) The residual disinfectant concentration of the water entering the distribution system shall be
monitored continuously, and the lowest value shall be recorded each day, except that if there is a

- 10 monitored continuously, and the lowest value shall be recorded each day, except that if there is a 11 failure in the continuous monitoring equipment, grab sampling every four hours may be conducted 12 in lieu of continuously monitoring, but for no more than five working days following the failure of 13 the equipment. Systems serving 3,300 or fewer persons may take grab samples in lieu of 14 providing continuous monitoring on an ongoing basis at the frequency of every four hours that 15 water is being treated.
- 16 (2) In 40 C.F.R. 141.74, "0.2 mg/l" of residual disinfectant concentration shall be replaced with "0.2
 17 mg/l measured as free chlorine when chlorine is the singular applied disinfectant and 1.0 mg/l
 18 measured as total chlorine when ammonia and chlorine are applied disinfectants". disinfectants."

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History Note: Authority G.S. 130A-315; P.L. 93-523; 40 C.F.R. 141.74;

Eff. January 1, 1991;

22 Amended Eff. <u>April 1, 2014;</u> October 1, 2009.

15A NCAC 18C .2006 is amended pursuant to G.S. 150B-21.5(a)(2)&(4) as follows:

3 15A NCAC 18C .2006 REPORTING AND RECORD KEEPING REQUIREMENTS

- 4 The provisions of 40 C.F.R. 141.75 are hereby adopted by reference in accordance with G.S. 150B-21.6 including
- 5 subsequent amendments and editions. This material is available for inspection at the Department of Environment
- 6 and Natural Resources, Division of Environmental Health, 2728 Capital Boulevard, Raleigh, North Carolina. Copies
- 7 <u>are available for public inspection as set forth in Rule 18C .0102 of this Subchapter.</u> These provisions are adopted
- 8 with the following exception: In 40 C.F.R. 141.75, "0.2 mg/l" of residual disinfectant concentration shall be
- 9 replaced with "0.2 mg/l measured as free chlorine when chlorine is the singular applied disinfectant and 1.0 mg/l
- 10 measured as total chlorine when ammonia and chlorine are applied disinfectants". disinfectants."
- 11

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- 12 History Note: Authority G.S. 130A-315; P.L. 93-523; 40 C.F.R. 141.75;
 - *Eff. January 1, 1991;*
- 14 Amended Eff. <u>April 1, 2014;</u> October 1, 2009.

15A NCAC 18C .2007 is amended pursuant to G.S. 150B-21.5(a)(2)&(4) as follows:

3 15A NCAC 18C .2007 ENHANCED FILTRATION AND DISINFECTION

4 (a) Public water systems shall respond to the State Department in writing to significant deficiencies outlined in

- 5 sanitary survey reports no later than 45 days after receipt of the report, indicating how and on what schedule the
- 6 system will address significant deficiencies noted in the survey.
- 7 (b) Public water systems shall take necessary steps to address significant deficiencies identified in sanitary survey
- 8 reports if such deficiencies are within the control of the public water system and its governing body.
- 9 (c) Sanitary survey means an onsite review by the State Department of the water source (identifying sources of
- contamination using results of source water assessments where available), facilities, equipment, operation,
 maintenance, and monitoring compliance of a public water system to evaluate the adequacy of the system, its
 sources and operations and the distribution of safe drinking water.
- 13 (d) A significant Significant deficiency is means a defect in a system's design, operation, or maintenance, as well as

14 any failures or malfunctions of its treatment, storage, or distribution system, that is causing or has the potential to

15 cause the introduction of contamination into water delivered to customers.

- 16 (e) When a public water system is required to conduct a comprehensive performance evaluation (CPE) pursuant to
- 17 this Subchapter, the CPE shall include: assessment of water treatment plant performance, evaluation of major unit
- 18 processes, identification and prioritization of performance limiting factors, assessment of the applicability of
- 19 comprehensive technical assistance, and a written CPE report.
- 20

21

(2) evaluation of major unit processes;

22 (3) identification and prioritization of performance limiting factors;

23 (4) assessment of the applicability of comprehensive technical assistance; and

assessment of water treatment plant performance;

24 (5) a written CPE report.

(1)

The public water system shall participate in a comprehensive technical assistance (CTA) activity when the Department determines, based on the CPE results, there is a potential for improved water treatment performance and the public water system is able to receive and implement technical assistance. During the CTA phase, the public water system shall use the CPE results to identify and systematically address factors limiting performance of its water treatment plant; further, the public water system shall implement process control priority-setting techniques, and maintain long-term involvement in training staff and administrators.

(f) The provisions of 40 C.F.R. 141, Subpart P - Enhanced Filtration and Disinfection - (Systems Serving 10,000 or
More People) People), and Subpart T - Enhanced Filtration and Disinfection - (Systems Serving Fewer than 10,000
People) and the provisions of 40 C.F.R. 141, Subpart W- Enhanced Treatment for *Cryptosporidium* are hereby
incorporated by reference including any subsequent amendments and editions. This material is available for
inspection at the Department of Environment and Natural Resources, Division of Environmental Health, 2728
Capital Boulevard, Raleigh, North Carolina. Copies may be obtained from the Environmental Protection Agency's
(USEPA) Drinking Water Hotline at 1 800 426 4791 or from EPA's webpage at

1	http://www.epa.g	ov/ogwdw/regs.html. Copies are available for public inspection as set forth in Rule 18C .0102 of
2	this Subchapter.	
3		
4	History Note:	Authority G.S. 130A-315; P.L. 93-523; 40 C.F.R. 141
5		Eff. August 1, 2000;
6		Amended Eff. April 1, 2014; October 1, 2009; November 1, 2005.

15A NCAC 18C .2008 is amended pursuant to G.S. 150B-21.5(a)(2)&(4) as follows:

3 15A NCAC 18C .2008 DISINFECTANTS AND DISINFECTION BYPRODUCTS

4 (a) The provisions of 40 C.F.R. 141.53 are hereby incorporated by reference including any subsequent amendments 5 and editions. This material is available for inspection at the Department of Environment and Natural Resources, Division of Environmental Health, 2728 Capital Boulevard, Raleigh, North Carolina. Copies may be obtained from 6 7 the Environmental Protection Agency's (USEPA) Drinking Water Hotline at 1 800 426 4791 or from EPA's 8 webpage at http://www.epa.gov/ogwdw/regs.html. Copies are available for public inspection as set forth in Rule 9 18C .0102 of this Subchapter. 10 (b) The provisions of 40 C.F.R. 141.54 are hereby incorporated by reference including any subsequent amendments 11 and editions. This material is available for inspection at the Department of Environment and Natural Resources, 12 Division of Environmental Health, 2728 Capital Boulevard, Raleigh, North Carolina. Copies may be obtained from 13 the Environmental Protection Agency's (USEPA) Drinking Water Hotline at 1 800 426 4791 or from EPA's 14 webpage at http://www.epa.gov/ogwdw/regs.html. Copies are available for public inspection as set forth in Rule 15 18C .0102 of this Subchapter. 16 (c) The provisions of 40 C.F.R. 141.64 are hereby incorporated by reference including any subsequent amendments 17 and editions. This material is available for inspection at the Department of Environment and Natural Resources, 18 Division of Environmental Health, 2728 Capital Boulevard, Raleigh, North Carolina. Copies may be obtained from 19 the Environmental Protection Agency's (USEPA) Drinking Water Hotline at 1 800 426 4791 or from EPA's 20 webpage at http://www.epa.gov/ogwdw/regs.html. Copies are available for public inspection as set forth in Rule 21 18C .0102 of this Subchapter. 22 (d) The provisions of 40 C.F.R. 141.65 are hereby incorporated by reference including any subsequent amendments 23 and editions. This material is available for inspection at the Department of Environment and Natural Resources, 24 Division of Environmental Health, 2728 Capital Boulevard, Raleigh, North Carolina. Copies may be obtained from 25 the Environmental Protection Agency's (USEPA) Drinking Water Hotline at 1 800 426 4791 or from EPA's 26 webpage at http://www.epa.gov/ogwdw/regs.html. Copies are available for public inspection as set forth in Rule 27 18C .0102 of this Subchapter.

- (e) The provisions of 40 C.F.R. 141, Subpart L- Disinfectant Residuals, Disinfection Byproducts, and Disinfection
 Byproduct Precursors Precursors, and the provisions of 40 C.F.R. 141, Subparts U-Initial Distribution System
 Evaluations and Subpart V Stage 2 Disinfection Byproducts Requirements are hereby incorporated by reference
 including any subsequent amendments and editions. This material is available for inspection at the Department of
 Environment and Natural Resources, Division of Environmental Health, 2728 Capital Boulevard, Raleigh, North
 Carolina. Copies may be obtained from the Environmental Protection Agency's (USEPA) Drinking Water Hotline
- 34 at 1 800 426 4791 or from EPA's webpage at http://www.epa.gov/ogwdw/regs.html. Copies are available for public
- 35 inspection as set forth in Rule 18C .0102 of this Subchapter.

(f) Travel trailer parks, campgrounds, and marina slips that are community water systems as defined by G.S. 130A313(10), but do not serve 25 or more of the same persons more than six months per year shall be regulated as
transient non-community water systems for the purpose of this Rule.

History Note: Authority <u>*G.S.* 130A-313</u>; *G.S.* 130A-315; *P.L.* 93-525; 40 *C.F.R.* 141;

Eff. August 1, 2000;

Amended Eff. <u>April 1, 2014;</u> October 1, 2009; August 1, 2002.

15A NCAC 18C .2102 is amended pursuant to G.S. 150B-21.5(a)(2) as follows:

2		
3	15A NCAC 18	C.2102 APPLICATION FOR PERMIT
4	(a) An applicat	ion for the issuance or renewal of an operating permit for a community water system shall be made
5	on forms provid	ed by the Department. An application shall include the following information:
6	(1)	Name name and identification number of the community water system;
7	(2)	Name, address name, address, and social security number or tax identification number of the
8		supplier of water;
9	(3)	Name, address name, address, and certification number of the certified operator in responsible
10		charge of the community water system;
11	(4)	Name name of each certified laboratory which provides analyses of water samples; and
12	(5)	Population population served by the community water system.
13	(b) The fee for	issuance or renewal of an operating permit is set forth in G.S. 130A-328.
14	(c) Payment sh	all be made by check, payable to the Department of Environment, Health, Environment and Natural
15	Resources and s	hall accompany the application.
16	(d) Application	s for operating permits shall not be processed prior to the receipt of the required fees.
17	(e) An operatin	g permit shall be renewed annually.
18	(f) The suppli	er of water who holds a current operating permit shall inform the Department of any change of
19	address or trans	fer of ownership within 30 days of the change.
20		
21	History Note:	Filed as a Temporary Adoption Eff. January 22, 1992 for a Period of 180 Days to Expire on July
22		19, 1992;
23		Authority G.S. 130A-328;
24		Eff. April 1, 1992;

25 Amended Eff. <u>April 1, 2014;</u> July 1, 1993.

2

3 15A NCAC 18C .2202 GROUND WATER RULE

4 The provisions of 40 C.F.R. 141, Subpart S – Ground Water Rule are hereby incorporated by reference 5 including any subsequent amendments and editions. This material is available for inspection at the 6 Department of Environment and Natural Resources, Division of Environmental Health, 2728 Capital 7 Boulevard, Raleigh, North Carolina. Copies obtained from the Environmental Protections Agency's 8 (USEPA) Drinking Water Hotline at 1 800 426 4791 or from EPA's web page at 9 http://www.epa.gov/ogwdw/regs.html. Copies are available for public inspection as set forth in Rule 18C 10 .0102 of this Subchapter. The provisions are incorporated with the following exceptions: 11 (1)Fecal indicator for source water monitoring. When systems are required to conduct 12 triggered source water monitoring or assessment source water monitoring under 40 C.F.R. 13 141.402 (a) and (b) respectively, any of the following three fecal indicators can be used: E. 14 coli, enterococci enterococci, or coliphage. 15 (2)Corrective Action Alternatives. Ground water systems that are required to implement corrective action in accordance with 40 C.F.R. 141.403(a)(6) must determine that 16 17 alternatives (a)(6)(i), $\frac{(a)(6)(ii)}{(a)(6)(ii)}$ (a)(6)(ii), and (a)(6)(iii) are not feasible before implementing 18 alternative (a)(6)(iv). The rationale for selection of alternative (a)(6)(iv) must be 19 documented in accordance with 15A NCAC 18C .0307(b)(10). Rule 18C .0307(b)(10) of 20 this Subchapter. 21 (3) Assessment Source Water Monitoring. The Department shall use information from the 22 Public Water Supply Section's database and from its Source Water Assessment Program to 23 identify sources subject to assessment source water monitoring. Systems notified by the 24 Department must commence assessment source water monitoring for the

- sources <u>identified</u>. <u>identified by January 1, 2010</u>. The system shall conduct assessment
 source water monitoring for any source that receives physical or chemical treatment and
 possesses any one of the following characteristics:
- (a) Any source subject to the requirements of G.S. 130A-317(b) and applicable
 rules <u>Rules in this Subchapter</u> for which the public water system did not receive
 approval from the Department for construction or alteration.
- 31(b)Source is deemed by the Source Water Assessment Program to have a Higher32Inherent Vulnerability Rating and the system has historical total or fecal coliform33MCL violations during the compliance periods between January 1, 2005 and34December 31, 2008.
- 35 (c) Source is deemed by the Source Water Assessment Program to have a Higher
 36 Inherent Vulnerability Rating and the system has total or fecal coliform monitoring

1		violations cited for more than 25 percent of the compliance periods between
2		January 1, 2005 and December 31, 2008.
3		Any system shall perform assessment source water monitoring as directed by the
4		Department in response to deficiencies identified by a sanitary survey that are related to
5		source or treatment. Assessment source water monitoring shall be conducted in accordance
6		with the requirements specified in 40 C.F.R. 141.402(b)(1) through (6) using any of the
7		following three fecal indicators: E. coli, enterococci or coliphage.
8	<u>(4)</u>	Any system shall perform assessment source water monitoring as directed by the
9		Department in response to deficiencies identified by a sanitary survey that are related to
10		source or treatment. Assessment source water monitoring shall be conducted in accordance
11		with the requirements specified in 40 C.F.R. 141.402(b)(1) through (6) using any of the
12		following three fecal indicators: E. coli, enterococci, or coliphage.
13		
14	History Note:	Authority G.S. 130A-315; <u>G.S. 130A-317;</u> P.L. 93-523; 40 C.F.R. 141 Subpart S;
15		Eff. October 1, 2009. 2009;
16		Amended Eff. April 1, 2014.