# GENERAL ASSEMBLY OF NORTH CAROLINA SESSION 2009

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### HOUSE BILL 374\* PROPOSED SENATE COMMITTEE SUBSTITUTE H374-PCS80504-SB-80

Short Title: Improve Upper Neuse Basin Water Quality.

(Public)

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Sponsors:

Referred to:

## March 4, 2009

1	A BILL TO BE ENTITLED
2	AN ACT TO PROTECT AND RESTORE WATER QUALITY AND QUANTITY IN THE
3	UPPER NEUSE RIVER BASIN, FALLS LAKE, AND OTHER DRINKING WATER
4	SUPPLY RESERVOIRS BY DIRECTING THE ENVIRONMENTAL MANAGEMENT
5	COMMISSION TO PROVIDE CREDIT TO LOCAL GOVERNMENTS,
6	LANDOWNERS, AND OTHERS WHO REDUCE WATER POLLUTION IN THE
7	UPPER NEUSE RIVER BASIN BEFORE PERMANENT RULES ARE ADOPTED AND
8	TO MODIFY THE NUTRIENT MANAGEMENT STRATEGY AND ADOPT A
9	SEDIMENTATION STRATEGY FOR CERTAIN DRINKING WATER SUPPLY
10	RESERVOIRS.
11	Whereas, that portion of the Neuse River Basin that is upstream of the Falls Dam
12	and that includes Falls Lake is often referred to as the Upper Neuse River Basin; and
13	Whereas, the nine drinking water supply reservoirs in the Upper Neuse River Basin
14	provide water for drinking, sanitation, food processing, cooling, industrial processing, and other
15	essential uses for the citizens of Orange, Person, Durham, Granville, and Wake Counties; and
16	Whereas, the General Assembly enacted S.L. 1997-458, the Clean Water
17	Responsibility and Environmentally Sound Policy Act, to protect and restore the waters of the
18	State in 1997; and
19	Whereas, the General Assembly enacted S.L. 2005-190, the Clean Lakes Act, to
20	protect and restore the drinking water supply reservoirs of the State in 2005; and
21	Whereas, the North Carolina Division of Water Quality in the Department of
22	Environment and Natural Resources listed Falls Lake in the Upper Neuse River Basin as
23	impaired waters in 2008, and the U.S. Environmental Protection Agency also classifies Falls
24	Lake as impaired waters due to nutrients and turbidity; and
25	Whereas, the quality and quantity of the water in the nine drinking water supply
26	reservoirs in the Upper Neuse River Basin are essential to public health, environmental quality,
27	and the economic vitality of the region; and
28	Whereas, the North Carolina Environmental Management Commission may not
29	develop a nutrient management strategy and rules to implement the nutrient management
30	strategy for the Upper Neuse River Basin by July 1, 2009, as required by law; and
31	Whereas, delayed development of a nutrient management strategy and rules to
32	implement the nutrient management strategy threatens the quality and quantity of drinking
33	water supply reservoirs in the Upper Neuse River Basin; Now, therefore,
34	The General Assembly of North Carolina enacts:



**SECTION 1.(a)** Definition. – For purposes of this section, the term "Upper Neuse 1 2 River Basin" is that portion of the Neuse River Basin upstream of the Falls Dam, including 3 Falls Lake. 4 **SECTION 1.(b)** Credit for Early Adoption. – The Environmental Management 5 Commission shall encourage local governments, landowners, and others to develop, adopt, and implement policies and practices to reduce the runoff and discharge of nitrogen, phosphorus, 6 7 sediment, and other pollutants into the surface waters and drinking water supply reservoirs in 8 the Upper Neuse River Basin before it adopts permanent rules to implement the nutrient 9 management strategy and the turbidity strategy for Upper Falls Lake. The Environmental 10 Management Commission shall, in its permanent rules, provide credit for the early implementation of the nutrient management strategy for the Upper Neuse River Basin and the 11 12 turbidity strategy for Falls Lake to local governments, landowners, and others who implement 13 policies and practices after January 1, 2007, to reduce runoff and discharge of nitrogen, 14 phosphorus, and sediment in the Upper Neuse River Basin. 15 **SECTION 1.(c)** Reports. – The Environmental Management Commission shall 16 report its progress in implementing this section to the Environmental Review Commission as 17 part of each quarterly report it makes pursuant to G.S. 143B-282(b). 18 SECTION 2.(a) Section 3 of S.L. 2005-190, as amended by Section 31 of S.L. 19 2006-259, reads as rewritten: 20 "SECTION 3.(a) Applicability of section to certain reservoirs. – This section applies 21 only to drinking water supply reservoirs that meet all of the following criteria as of 1 July 2005: 22 The reservoir serves a population greater than 300,000 persons. (1)23 (2)The Environmental Management Commission has classified all or any part 24 of the water in the reservoir as a nutrient sensitive water (NSW). 25 Water quality monitoring data indicates that water quality in the reservoir (3)26 violates the chlorophyll A standard. 27 (4) The Division of Water Quality of the Department of Environment and 28 Natural Resources has not prepared or updated a calibrated nutrient response 29 model for the reservoir since 1 July 2002. 30 "SECTION 3.(b) Temporary limitation on increased nutrient loading. - If the 31 Environmental Management Commission determines either that water quality in all or in any 32 part of a drinking water supply reservoir to which this section applies does not meet current 33 water quality standards or that it is likely that water quality will not meet water quality 34 standards at any time prior to 1 July 2010, the Commission shall not make any new or 35 increased nutrient loading allocation to any person who is required to obtain a permit under 36 G.S. 143-215 for an individual wastewater discharge directly or indirectly into that reservoir. 37 This limitation on new or increased nutrient loading allocation shall not be construed to 38 prohibit a person who holds a permit for a wastewater discharge into a drinking water supply 39 reservoir from purchasing a nutrient loading allocation from another person who holds a permit 40 for a wastewater discharge into the same drinking water supply reservoir. This subsection 41 expires with respect to a drinking water supply reservoir when permanent rules adopted by the 42 Commission to implement the nutrient management strategy for that reservoir become 43 effective. 44 "SECTION 3.(c) Nutrient management strategy. – The Environmental Management 45 Commission shall develop a nutrient management strategy for drinking water supply reservoirs to which this section applies by 1 July 2009.15 January 2011. The nutrient management 46 47 strategy shall be based on a calibrated nutrient response model that meets the requirement of 48 G.S. 143-215.1(c5). The nutrient management strategy shall include specific mandatory 49 measures to achieve the reduction goals. The Commission shall consider the cost of the 50 proposed measures in relation to the effectiveness of the measures. In developing the nutrient

50 proposed measures in relation to the effectiveness of the measures. In developing the nutrient 51 management strategy, the Commission shall consider the effectiveness of measures previously

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implemented in the watershed and the cost of the proposed measures in relation to their 1 2 effectiveness. These measures could include, but are not limited to, buffers, erosion and 3 sedimentation control requirements, post-construction stormwater management, agricultural 4 nutrient reduction measures, the addition of nutrient removal treatment processes to point source permitted wastewater treatment plants, the removal of point source discharging 5 wastewater treatments through regionalization and conversion to non-discharge treatment 6 7 technologies, measures to address nutrient inputs from on-site wastewater treatment systems, 8 control of atmospheric deposition, allowing the sale and purchase of nutrient offsets, allowing 9 trading of nutrient loading allocations and credits for nutrient reductions, and any other measures that the Commission determines to be necessary to meet the nutrient reduction goals. 10 To the extent that one or more other State programs already mandate any of these measures, the 11 12 nutrient management strategy shall incorporate the mandated measures and any extension of 13 those measures and any additional measures that may be necessary to achieve the nutrient 14 reduction goals. In making a nutrient loading allocation to a permit holder, the Commission shall, to the extent allowed by federal and State law, give consideration to all voluntary efforts 15 16 taken by the permit holder to protect water quality prior to the development of the nutrient 17 management strategy.

18 "SECTION 3.(d) Eligibility under the Clean Water Revolving Loan and Grant Act. – 19 The definitions set out in G.S. 159G-3 apply to this subsection. The operator of a wastewater 20 treatment works that is owned by an agency of the State may apply for a loan or grant under 21 Chapter 159G of the General Statutes on the same basis as any other applicant if the operator is 22 a local government unit and if the local government unit operates the wastewater treatment 23 works pursuant to a contract with the State agency that contemplates that the local government 24 unit will eventually acquire ownership of the wastewater treatment works.

25 "SECTION 3.(e) Implementation; rulemaking. – The Environmental Management 26 Commission shall adopt permanent rules to implement the nutrient management strategies 27 required by this section by <u>1 July 2009.15 January 2011</u>. The rules shall require that reductions 28 in nutrient loading from all sources begin no later than five years after the rules become 29 effective. The rules shall require that stormwater management programs to reduce nutrient 30 loading from new development be implemented no later than 30 months after the rules become 31 effective.

"SECTION 3.(f) Reports. – The Environmental Management Commission shall report its
 progress in implementing this section to the Environmental Review Commission as a part of
 each quarterly report it makes pursuant to G.S. 143B-282(b)."

35 **SECTION 2.(b)** S.L. 2005-190, as amended by Section 31 of S.L. 2006-259, is 36 amended by adding four new subsections to read:

37 "SECTION 3.(g) Compensatory mitigation for riparian buffer loss; nutrient offset 38 purchases. - Compensatory mitigation for riparian buffer loss in the watershed of a drinking 39 water supply to which this section applies must be performed in the watershed of the drinking 40 water supply. The Environmental Management Commission may further limit the area in which 41 compensatory mitigation for riparian buffer loss must be performed in the watershed of a 42 drinking water supply to which this section applies. Any nutrient offset purchased to offset 43 loading in the watershed of a drinking water supply to which this section applies may only be 44 obtained from an offset project located in the watershed of the drinking water supply. The 45 Environmental Management Commission may further limit the area from which nutrient offsets 46 may be obtained in the watershed of a drinking water supply to which this section applies.

47 "SECTION 3.(h) Additional standards for land-disturbing activities in the water
48 supply watershed. – For purposes of this section, "land-disturbing activity" does not include
49 the land-disturbing activities set out in G.S. 113A-52.01. In addition to any other requirements
50 of State, federal, and local law, land-disturbing activity in the watershed of the water supply

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1 2	reservoir to which this section applies shall meet all of the following de sedimentation and erosion control:	esign standards for	
3	(1) Erosion and sedimentation control measures, structures, a	nd devices shall be	
4	planned, designed, and constructed to provide protection		
5	the 25-year storm that produces the maximum peak		
6	calculated according to procedures set out in the United	_	
7	of Agriculture Soil Conservation Service's "National		
8	Manual for Conservation Practices" or according to proc		
9	any other agency of the State or the United States	or any generally	
10	recognized organization or association.		
11	(2) Sediment basins shall be planned, designed, and construct		
12	will have a settling efficiency of at least seventy perc		
13	40-micron size soil particle transported into the basin by		
14	two-year storm that produces the maximum peak rate of r	unoff as calculated	
15	according to procedures in the United States Department	of Agriculture Soil	
16	Conservation Service's "National Engineering Fig	eld Manual for	
17	Conservation Practices" or according to procedures ado	pted by any other	
18	agency of the State or the United States or any gen	nerally recognized	
19	organization or association.		
20	(3) Newly constructed open channels shall be planne	d, designed, and	
21	constructed with side slopes no steeper than two horizont	al to one vertical if	
22	a vegetative cover is used for stabilization unless soil	conditions permit	
23	steeper slopes or where the slopes are stabilized by	using mechanical	
24	devices, structural devices, or other acceptable ditch liner	s. In any event, the	
25	angle for side slopes shall be sufficient to restrain accelera	ted erosion.	
26	(4) For an area of land-disturbing activity where grading a	ctivities have been	
27	completed, temporary or permanent ground cover suf	ficient to restrain	
28	erosion shall be provided as soon as practicable, but in	no case later than	
29	seven days after completion of grading. For an area	of land-disturbing	
30	activity where grading activities have not been completed.		
31	cover shall be provided as follows:	1 1 2	
32	a. For an area with no slope, temporary ground cove	r shall be provided	
33	for the area if it has not been disturbed for a period	of 14 days.	
34	b. For an area of moderate slope, temporary grou	nd cover shall be	
35	provided for the area if it has not been disturbed		
36	days. For purposes of this subdivision, "moderat		
37	inclined area, the inclination of which is less that	n or equal to three	
38	units of horizontal distance to one unit of vertical c	listance.	
39	c. For an area of steep slope, temporary ground cove	r shall be provided	
40	for the area if it has not been disturbed for a per	_	
41	For purposes of this subdivision, "steep slope"	•	
42	area, the inclination of which is greater than three	units of horizontal	
43	distance to one unit of vertical distance.		
44	"SECTION 3.(i) For purposes of this section, "land-disturbing activity	" does not include	
45	the land-disturbing activities set out in G.S. 113A-52.01. No later than Dece		
46	Sedimentation Control Commission shall adopt rules for the control of erosion and		
47	sedimentation resulting from land-disturbing activities in the watershed of the water supply		
48	reservoir to which this section applies. In developing the rules, the Commission shall consider		
49	the standards established pursuant to Section 3(h), as enacted by Section 2(b) of this act.		
50	"SECTION 3.(j) The Department of Environment and Natural Resource	ces, in consultation	

50 "**SECTION 3.(j**) The Department of Environment and Natural Resources, in consultation 51 with the Environmental Management Commission, shall identify improvements needed in the

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design, operation, and siting of septic tank systems in order to reduce excess nutrient loading 1 2 from septic tank systems in the watershed of a drinking water supply to which this section 3 applies. The Department shall report its findings and recommendations for specific changes to 4 standards adopted by the Commission for Public Health pursuant to G.S. 130A-355 to the 5 Commission for Public Health and to the Environmental Review Commission no later than 6 March 1, 2010." 7 **SECTION 3.** Concurrent with the permanent rule making required by Section 3 of 8 S.L. 2005-190, as amended by Section 31 of S.L. 2006-259 and Section 2(a) of this act, and 9 pursuant to G.S. 143-215.8B, the Environmental Management Commission shall adopt 10 temporary rules. The Commission shall adopt the temporary rules required by this section by

11 January 15, 2011.

SECTION 4. Section 3(h) of S.L. 2005-190, as enacted by Section 2(b) of this act, becomes effective January 1, 2010, applies to land-disturbing activities begun on or after January 1, 2010, and expires on the date that rules adopted pursuant to Section 3(i) of S.L. 2005-190, as enacted by Section 2(b) of this act, become effective. The remaining sections of this act are effective when they become law.