## GENERAL ASSEMBLY OF NORTH CAROLINA SESSION 2023

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## **HOUSE BILL 571**

	Short Title:	Discharge of Highly Treated Wastewater. (Pub	olic)				
	Sponsors:Representatives Arp, Brody, D. Hall, and Crutchfield (Primary Sponsors).For a complete list of sponsors, refer to the North Carolina General Assembly web site.						
	Referred to: Energy and Public Utilities, if favorable, Rules, Calendar, and Operations of House						
	April 6, 2023						
1 2 3 4	SYSTEM	A BILL TO BE ENTITLED TO AUTHORIZE DISCHARGES FROM WASTEWATER TREATME IS THAT MEET SPECIFIED EFFLUENT LIMITATIONS TO CERTA E WATERS.					
5	The General A	Assembly of North Carolina enacts:					
6	SH	ECTION 1.(a) G.S. 143-215.1 is amended by adding a new subsection to read:	:				
7	" <u>(c8)</u> <u>Pe</u>	ermitted Discharges of Highly Treated Domestic Wastewater. –					
8	<u>(1</u> )						
9		the Department shall authorize permitted discharges of highly trea					
10		domestic wastewater to surface waters of the State, including wetlan					
11 12		perennial streams, and unnamed tributaries of named and classified streat where the 7Q10 flow or 30Q2 flow of the receiving waterbody is estimated					
12		be low flow or zero flow, as determined by the United States Geolog					
13		Survey, from wastewater treatment systems capable of meeting the follow					
15		water quality-based effluent limitations:	Π <u></u>				
16		<u>a.</u> <u>Biological oxygen demand (BOD<sub>5</sub>), 5mg/L.</u>					
17		b. NH <sub>3</sub> , 0.5mg/L monthly average, 1.0 mg/L daily maximum.					
18							
19			aily				
20		maximum.					
21		e. Fecal coliforms, 14 colonies/100mL.					
22		<u>e.</u> <u>Fecal coliforms, 14 colonies/100mL.</u> <u>f.</u> <u>Dissolved oxygen, 6mg/L, or 1mg/L more than the BC</u>	<u>)D5</u>				
23		concentration.					
24		g. <u>Turbidity, 1 Nephelometric Turbidity Units.</u>					
25		<u>h.</u> <u>Total suspended solids, 5mg/L monthly average.</u>					
26		i. <u>Nitrate, 1mg/L monthly average.</u>					
27	<u>(2</u> )	) In addition to the requirements set forth in subdivision (1) of this subsection	ion,				
28		only the following requirements shall apply to wastewater discharges to	) be				
29		authorized pursuant to this subsection:					
30		a. No discharge shall be permitted to classified shellfish waters					
31		outstanding resource waters. Discharges to unnamed tributaries					
32		classified shellfish waters, however, shall be authorized in complia	nce				
33		with the requirements of this section.					



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	<u>b.</u>	The limitation of flow	for any wastewater discharge shall be no more
	_	than one-tenth of the	flow generated by the one-year, 24-hour storm
			ge area and calculated using the rational method.
			shall be used to calculate the peak runoff for the
			cipitation event in cubic foot per second. The
		•	be divided by 10 and multiplied by 646,272 to
		-	allons per day of allowable discharge at the point
		studied.	anons per day or anowable disentinge at the point
	<u>c.</u>		nited based on the ability of the receiving waters
	<u>v.</u>		the proposed flow, as demonstrated by being
			ne-tenth of the flow using the rational method.
	<u>d.</u>		be directed to buffer systems that utilize
	<u>u.</u>		logies to function as a buffer between the
			eiving waters. Buffer systems shall:
			of the following: (i) high-rate infiltration basins
			ngineered materials to achieve high rates of
			hich engineered materials shall have an ASTM
			a clean washed coarse grained sand; (ii)
			ee surface wetlands having a hydraulic residence
			ays; and (iii) other suitable technologies that
			sical or hydraulic residence time buffer, or both,
			scharge and the receiving waters.
			areas that are 50 feet upland of the receiving
			lands at a non-erosive velocity equal to or less
		-	er second through an appropriately designed
			ater, or other applicable designs, that meet the
			practice for professional engineers for such
		devices.	
			sequent outfall to the receiving stream so that no
			outfall exceeds 1 cubic foot per second based on
			ily flow of the discharge. Discharges from buffer
			be allowed to be placed at increments along a
		stream or rece	iving waters at a distance of no less than 50 linear
		<u>feet.</u>	
<u>(3)</u>	<u>For p</u>	-	on, the following definitions apply:
	<u>a.</u>	<u>7Q10 flow. – A meth</u>	od to calculate the minimum average flow of a
		receiving water for a	period of seven consecutive days that has an
		average recurrence of	
	<u>b.</u>	<u>30Q2 flow. – A meth</u>	od to calculate the minimum average flow of a
		receiving water for a p	period of 30 consecutive days that has an average
		requirrence of once in	
		recurrence of once in	<u>two years.</u>
	<u>c.</u>		
	<u>c.</u>	Highly treated dome	estic wastewater Wastewater effluent from
	<u>c.</u>	Highly treated dome treatment systems the	estic wastewater. – Wastewater effluent from nat receive flows from sources of domestic
	<u>c.</u>	Highly treated dome treatment systems the	estic wastewater. – Wastewater effluent from nat receive flows from sources of domestic the effluent standards as set forth in subdivision
	<u>c.</u> <u>d.</u>	Highly treated dome treatment systems the wastewater that meet (1) of this subsection.	estic wastewater. – Wastewater effluent from nat receive flows from sources of domestic the effluent standards as set forth in subdivision
		Highly treated dome treatment systems the wastewater that meet (1) of this subsection. Rational method. – 7	estic wastewater. – Wastewater effluent from nat receive flows from sources of domestic the effluent standards as set forth in subdivision The method of computing storm drainage flow
		Highly treated dome treatment systems the wastewater that meet (1) of this subsection. Rational method. – T rates (Q) by use of	estic wastewater. – Wastewater effluent from nat receive flows from sources of domestic the effluent standards as set forth in subdivision The method of computing storm drainage flow the formula $Q = CIA$ . For purposes of this
		Highly treated dome treatment systems the wastewater that meet (1) of this subsection. Rational method. – 7 rates (Q) by use of sub-subdivision, the f	estic wastewater. – Wastewater effluent from nat receive flows from sources of domestic the effluent standards as set forth in subdivision

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1	2. <u>I. – The rainfall intensity for the one-year, 24-hour</u>
2	precipitation event given by the National Oceanic and
3	Atmospheric Administration through its online precipitation
	data server or other appropriate sources in units of inches per
	<u>hour.</u>
	3. <u>A. – The catchment area tributary to the point being studied as</u>
	further defined using methodologies that meet the standard of
	practice for such work, including, but not limited to web-based
	data and tools provided by the United States Geological Survey
	or by other analysis using topographic data that follows the
	standard of practice for such work by licensed professional
	engineers in units of acres.
	(4) Once an applicant has submitted data to demonstrate the proposed discharge
	will meet the requirements of subdivisions (1) and (2) of this subsection,
	signed and sealed by a professional engineer licensed in accordance with the
	provisions of Chapter 89C of the General Statutes, the application shall be
	deemed complete for the purposes of review by the Department."
	<b>SECTION 1.(b)</b> If rules are required in order to implement the requirements of this
	act, the Department of Environmental Quality shall adopt temporary rules no later than 60 days
	after this act becomes law. Any temporary rules adopted in accordance with this section shall
	remain in effect until permanent rules that replace the temporary rules become effective. Rules
	adopted pursuant to this section shall not, however, impose additional requirements on permitting
	of the discharge of highly treated domestic wastewater over that established under
	G.S. 143-215.1(c8), as enacted by subsection (a) of this section.
	<b>SECTION 2.</b> This act is effective when it becomes law. G.S. 143-215.1(c8), as
	enacted by Section 1 of this act, applies to permits for new or expanded wastewater discharge
	facilities issued on or after that date.