

1 15A NCAC 13B .0830 is amended with changes as published in 33:04 NCR 404 as follows:

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3 **15A NCAC 13B .0830 INCORPORATION BY REFERENCE**

4 (a) All Sections of the Code of Federal Regulations (CFR) cited in this Section are hereby incorporated by reference,  
5 including subsequent amendments or ~~additions.~~ additions, and may be obtained free of charge at  
6 <https://www.gpo.gov/fdsys/>.

7 ~~Copies of Federal statutes,~~ US Environmental Protection Agency (EPA) and American Society for Testing  
8 Materials (ASTM) test methods and procedures, and other published standards referenced in this Section are hereby  
9 incorporated by reference, including subsequent amendments or additions.

10 (c) Copies of all material incorporated by reference in this Section are available for inspection free of charge at the  
11 Department of Environmental Quality ~~Environment and Natural Resources~~, Division of Waste Management, Solid  
12 Waste Section, 217 West Jones Street, Raleigh, N.C. 27603 or the Division's website at  
13 <https://deq.nc.gov/about/divisions/waste-management>. ~~401 Oberlin Road, Raleigh, N.C. 27699 1646.~~

14 ~~(d) Material incorporated by reference in the Federal Register may be obtained at Government Institutes, 15200 NBN~~  
15 ~~Way, Blue Ridge Summit, PA 17214 at a cost of one thousand five hundred sixty seven dollars and fifty cents~~  
16 ~~(\$1,567.50). Federal Register materials are codified once a year and may be obtained at the above address for a cost~~  
17 ~~of: 40 CFR 190 259 thirty nine dollars and seventy five cents (\$39.75), 40 CFR 425 699 sixty dollars and seventy~~  
18 ~~five cents (\$60.75) or at <http://www.gpoaccess.gov/cfr>.~~

19  
20 *History Note: Authority G.S. 130A-291.1;*

21 *Eff. October 1, 2009;*

22 *Pursuant to G.S. 150B-21.3A, rule is necessary without substantive public interest Eff. June 24,*  
23 *~~2017.~~ 2017:*

24 *Amended Eff. ~~January~~ February 1, 2019.*

1 15A NCAC 13B .0831 is readopted with changes as published in 33:04 NCR 404 as follows:

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3 **15A NCAC 13B .0831 DEFINITIONS**

4 In addition to the terms defined in G.S. 130A-290, as used in this Section the following terms are defined as follows:  
5 ~~have the following meanings:~~

- 6 (1) "Agronomic rates" ~~are defined as~~ means those rates that provide the nitrogen and other nutrient  
7 needs of the crop based on available realistic yield expectations (RYE) established for a soil series  
8 through published Cooperative Extension Service bulletins, Natural Resources Conservation  
9 Service ~~publications~~ publications, or county soil surveys, but do not overload the soil with nutrients  
10 or other constituents ~~which that~~ which may eventually leach to groundwater, limit crop growth, or degrade  
11 ~~adversely impact~~ soil quality.
- 12 (2) "Annual septage application rate" means the maximum amount, in gallons, of septage that ~~can~~ may  
13 be applied to a unit area of land during a 365-day period.
- 14 (3) ~~"CFR" means Code of Federal Regulations.~~
- 15 (4) ~~"Department" means Department as defined in G.S. 143-212.~~
- 16 (5) ~~"Division" means the Division of Waste Management in the Department. All rules cited in this~~  
17 ~~Section, under the authority of the Division, may be obtained at 401 Oberlin Road, Raleigh, North~~  
18 ~~Carolina 27604, or at the Division's web page at www.wastenotne.org.~~
- 19 (6)(3) "Land application" ~~shall mean~~ means the spraying or spreading of septage onto the land surface; the  
20 injection of septage below the land surface; or the incorporation of septage into the soil so that the  
21 septage ~~can condition~~ conditions the soil or ~~fertilize~~ fertilizes crops or vegetation grown in the soil.
- 22 (7)(4) "Licensed Geologist" means licensed geologist as defined in G.S. 89E-3. ~~an individual who is~~  
23 ~~licensed to practice geology in accordance with G.S. 89E.~~
- 24 (5) "Licensed Soil Scientist" means licensed soil scientist as defined in G.S. 89F-3.
- 25 (8)(6) "Nutrient Management Plan" means a plan to define the management requirements and nutrient  
26 needs of crops to be grown on a septage land application site, including the amount, sources,  
27 ~~placement~~ placement, and timing of nutrient applications to maximize the nutrient uptake of the  
28 crop. Plan implementation shall protect the environment and maintain crop productivity.
- 29 (9)(7) "Place of business" means place of business as defined in G.S. 130A-334. ~~any store, warehouse,~~  
30 ~~manufacturing establishment, place of amusement or recreation, service station, food handling~~  
31 ~~establishment, office, or any other place where people work or are served.~~
- 32 (10)(8) "Place of public assembly" means place of public assembly as defined in G.S. 130A-334. ~~any~~  
33 ~~fairground, auditorium, stadium, church, campground, theater, school, or any other place where~~  
34 ~~people gather or congregate.~~
- 35 (11)(9) "Professional Engineer" means professional engineer as defined in G.S. 89C-3. ~~an individual who~~  
36 ~~is licensed to practice engineering in accordance with G.S. 89C.~~

- (12)(10) "Residence" means residence as defined in G.S. 130A-334. ~~any habitable home, hotel, motel, summer camp, labor work camp, mobile home, dwelling unit in a multiple family structure, or any other place where people reside.~~
- (13)(11) "Rock" means the consolidated or partially consolidated mineral matter or aggregate, including bedrock or weathered rock, not exhibiting the properties of soil.
- (14)(12) "Seasonal High Water Table" or "SHWT" ~~is~~ means the highest level of the saturated zone in the soil during a year with normal rainfall. to which the soil is saturated, as SHWT may be determined in the field through identification of redoximorphic features in the soil profile, monitoring of the water table elevation, or modeling of predicted groundwater elevations. profile including low chroma mottling. This does not include temporary perched conditions. Alternatively, the SHWT can also be determined from water level measurements or via soil/groundwater modeling.
- (15)(13) "Septage" means septage as defined in G.S. [130A-290(a)(32).] ~~130A-290(a)(32) and also shall include washings from the interior of septage handling containers, including pumper trucks.~~
- (16)(14)(13) "Septage Management Facility" means land, personnel, and equipment used in the management of septage, including ~~but not limited to,~~ septage management firms as defined in G.S. 130A-290(a)(33), septage detention and treatment facilities, and septage land application sites.
- (17)(15)(14) "Soil" means the unconsolidated mineral and organic material of the land surface. It consists of sand, silt, and clay minerals and variable amounts of organic materials.
- (18) "Soil Scientist" ~~means an individual who is licensed to practice soil science in accordance with G.S. 89F.~~
- (19)(16)(15) "Soil textural classes" means soil classification based upon size distribution of mineral particles in the fine-earth fraction less than two millimeters in diameter. The fine-earth fraction includes sand (2.0 – 0.05 mm in size), silt (0.05 mm – 0.002 mm), and clay (less than 0.002 mm in size) particles. The specific textural classes ~~are~~ shall be defined as follows:
- (a) "Sand" means soil material that contains 85 percent or more of sand; the percentage of silt plus 1.5 times the percentage of clay less than 15;
  - (b) "Loamy sand" means soil material that contains at the upper limit 70 to 91 percent sand, and the percentage silt plus 1.5 times the percentage of clay is not less than 15.45; at the lower limit contains not less than 70 to 85 percent sand, and the percentage of silt plus twice the percentage of clay is less than 30;
  - (c) "Sandy loam" means soil material that contains either:
    - (i) 7 to 20 percent clay, 52 percent or more sand, and the percentage of silt plus twice the percentage of clay exceeds 30; 30, and contains 52 percent or more sand; or
    - (ii) less than 7 percent clay, less than 50 percent silt, and more than 43 percent sand;
  - (d) "Loam" means soil material that contains 7 to 27 percent clay, 28 to 50 percent silt, and 52 percent or less sand;
  - (e) "Silt loam" means soil material that contains either:

- 1 (i) 50 percent or more silt and 12 to 27 percent clay; or
- 2 (ii) contains 50 to 80 percent silt and less than 12 percent clay;
- 3 (f) "Silt" means soil material that contains 80 percent or more silt and less than 12 percent
- 4 clay;
- 5 (g) "Sandy clay loam" means soil material that contains 20 to 35 percent clay, clay and less
- 6 than 28 percent silt, and more than 45 percent sand;
- 7 (h) "Clay loam" means soil material that contains 27 to 40 percent clay and more than 20 to
- 8 46 percent sand;
- 9 (i) "Silty clay loam" means solid material that contains 27 to 40 percent clay and 20 percent
- 10 or less sand;
- 11 (j) "Sandy clay" means soil material that contains 35 percent or more clay and 45 percent or
- 12 more sand;
- 13 (k) "Silty clay" means soil material that contains 40 percent or more clay and 40 percent or
- 14 more silt; and
- 15 (l) "Clay" means soil material that contains 45 percent or less sand, sand and less than 40
- 16 percent silt.
- 17 ~~(20) "Technical specialist" means an individual designated by the Soil and Water Conservation~~
- 18 ~~Commission, pursuant to rules adopted by that Commission, to certify animal waste management~~
- 19 ~~plans.~~
- 20 ~~(21)~~ ~~(47)~~ ~~(16)~~ "Treatment of septage" means the preparation of septage for final use or disposal.
- 21 Treatment ~~may include~~ includes, but is not limited to, thickening, stabilization, and dewatering of
- 22 septage. Treatment ~~does~~ shall not include storage of septage.
- 23 Definitions in 40 CFR 503.9(d), (g), (h), (j), (k), (l), (r), (t), (u), (v), (w), (bb), and in 40 CFR 503.11(a), ~~(b)~~, (c), (d),
- 24 (f), (g), ~~(h)~~, ~~(i)~~, (i), (k), (l), (m), (n) are incorporated by reference including subsequent amendments and editions.
- 25 ~~Copies of the Code of Federal Regulations may be obtained from the Solid Waste Section at no cost.~~
- 26
- 27 *History Note: Authority G.S. 130A-291.1;*
- 28 *Eff. October 1, 2009; 2009;*
- 29 *Readopted Eff. ~~January~~ February 1, 2019.*

1 15A NCAC 13B .0832 is readopted with changes as published in 33:04 NCR 404 as follows:

2  
3 **15A NCAC 13B .0832 GENERAL PROVISIONS**

4 (a) General permitting requirements.

- 5 (1) No person shall manage septage, or any part of septage, or operate a Septage Management Firm  
6 without first obtaining a permit from the Division as required under G.S. 130A-291.1(c);
- 7 (2) The permit requirement of G.S. 130A-291.1(c) applies to persons who remove septage, and other  
8 waste materials or spent media from wastewater systems permitted by the Department of Health and  
9 Human Services, Division of Environmental Health, under the authority of Article 11, Chapter 130A  
10 of the North Carolina General Statutes;
- 11 (3) The permit requirement of G.S. 130A-291.1(c) applies to persons who manage septage generated  
12 from properties ~~which that~~ they own, ~~lease lease~~, or manage as part of a business, ~~including but not~~  
13 ~~limited to~~ such as mobile homes, mobile home parks, restaurants, and other residential and  
14 commercial property;
- 15 (4) The Division may deny a permit ~~application~~, application in accordance with G.S. 130A-295.3(c);
- 16 (5) The Division may require an applicant to demonstrate substantial compliance in accordance with  
17 G.S. 130A-294(b2)(2);
- 18 (6) ~~All conditions for permits~~ Permits issued in accordance with this Section shall be followed;
- 19 (7) Where specified in this Section, permit applications or specific portions of applications shall be  
20 prepared ~~by a qualified environmental professional~~ in accordance with Rule .0202(a)(3) of this  
21 Subchapter; and
- 22 (8) Initial septage land application site and detention and treatment facility permits shall be ~~issued~~ valid  
23 for a maximum of one year. Subsequent permits [may] shall be valid for [up to] five years. The  
24 Division may issue a subsequent permit for less than five years based on any of the following factors:  
25 Renewal permits shall be issued for five years if the facility has not had a major violation and records  
26 have been maintained in accordance with this Section.
- 27 (A) the duration of the landowner authorization or wastewater treatment plant authorization;  
28 (B) the compliance history of the operator;  
29 (C) if any of the information for the permit application was received after the due date; or  
30 (D) to allow the due date for a subsequent permit application to be the same date as the septage  
31 firm permit application due date.

32 (b) Portable sanitation permitting provisions.

- 33 (1) A mobile or modular office that meets the criteria of G.S. 130A-291.2 shall be considered a chemical  
34 or portable toilet as defined in G.S. 130A-290(a)(1c). Leaks or overflows of the A storage tank at a  
35 mobile or modular office shall not release septage onto the ground. ~~be considered illegal land~~  
36 ~~application.~~ The office occupant and owner and the lessee of the mobile or modular office shall be

considered to be the responsible ~~party~~ parties and ~~shall~~ will be subject to the requirements of Paragraph (a) of this Rule.

- (2) No person shall rent or lease portable toilet(s) or contract or subcontract to rent or lease portable toilet(s) ~~to another person~~ or manage or dispose of waste from portable toilet(s), regardless of ownership of the ~~toilet(s)~~ toilet(s), unless that person is permitted to operate a septage management firm.
- (3) Placement of a chemical or portable toilet as defined in G.S. 130A-290(a)(1c) for potential use in North Carolina shall be considered operation of a septage management firm ~~which~~ that requires a permit.

(c) Recreational vehicle waste provisions.

- (1) Domestic septage from a recreational vehicle shall be managed in accordance with this Section or shall flow directly into a wastewater treatment system permitted by the Department of Environmental Quality ~~Environment and Natural Resources~~.
- (2) Wastewater from recreational vehicles that are tied down, blocked up, or that are not ~~relocated,~~ ~~relocated on a regular basis,~~ and that are not connected to an approved wastewater system shall be managed in accordance with Article 11, Chapter 130A of the NC General Statutes.
- (3) Recreational vehicle dump stations that do not discharge directly to a wastewater treatment system permitted by the Department of Environmental Quality ~~Environment and Natural Resources~~ shall be permitted as a septage detention and treatment facility in accordance with Rule .0836 of this Section.

(d) Alternate septage management method limitations.

- (1) Grease septage, or any part of grease septage, shall not be introduced or reintroduced into a grease trap, interceptor, separator, or other appurtenance used for the purpose of removing cooking oils, fats, grease, and food debris from the waste flow generated from food handling, preparation, and cleanup unless the Division has received written approval from the wastewater treatment plant operator or the onsite wastewater system permitting authority that reintroduction is acceptable.
- (2) Septage, or any part of septage, shall not be reintroduced into an onsite wastewater system unless approved pursuant to G.S. 130A-343(c).
- (3) Septage, or any part of septage, shall not be placed in containers at restaurants designated for yellow grease.
- (4) Septage, or any part of septage, shall not be disposed of in a municipal solid waste landfill unless the waste passes the ~~paint filter test~~ Paint Filter Liquids Test as defined by EPA S.W. 846 Test Method 9095B which can be accessed at no cost at <https://www.epa.gov/hw-sw846>, and the landfill receiving the waste has provided the Division written documentation that the specific material will be accepted.
- (5) Septage, or any part of septage, shall not be disposed of in a dumpster unless the waste passes the Paint Filter Liquids Test ~~as defined by EPA S.W. 846 [Test] Method 9095B which can be accessed~~

1 ~~at no cost at~~ <http://www.epa.gov/osw/hazard/testmethods/sw846/online/index.htm>,  
2 ~~[https://www.epa.gov/hw-26-sw846,]~~ and the landfill receiving the waste is a properly permitted  
3 municipal solid waste landfill, in accordance with Section .1600 of this Subchapter. Subchapter, and  
4 the landfill operator has provided the Division written documentation that the specific material will  
5 be accepted.

6 (6) Septage, or any part of septage, managed through subsurface disposal shall be considered a  
7 treatment facility and shall require a permit in accordance with this Section and G.S. 130A-343.

8 (7) Facilities receiving septage, or any part of septage, for composting shall be permitted in accordance  
9 with Section .1400 of this Subchapter.

10 (c) All ~~training~~, training to meet the requirements of G.S. 130A-291.3(a) and ~~(b), must (b) shall~~ be pre-approved by  
11 the Division. Approval by the Division shall be based on whether the training is in accordance with the Rules in this  
12 Section.

13 (f) Waste from holding tanks not otherwise addressed in this Section, and from wastewater systems pumped more  
14 often than every 30 days, shall not be considered domestic septage and shall not be land applied at a permitted septage  
15 land application site.

16 (g) Inspection and entry. The permit holder of a septage management firm or facility shall allow a representative of  
17 the Division to:

18 (1) ~~Enter~~ enter the permit holder's premises where a regulated facility or activity is located or conducted;

19 (2) ~~Access~~ access and copy any records required in accordance with this Section or conditions of the  
20 permit;

21 (3) ~~Inspect~~ inspect any facilities, equipment (including monitoring and control equipment), ~~practices~~  
22 practices, or operations regulated by the Division;

23 (4) ~~Sample~~ sample or monitor for the purposes of assuring permit compliance or as otherwise authorized  
24 by the Federal Clean Water Act or the North Carolina Solid Waste Management Act, any substances,  
25 ~~parameters~~ parameters, or soils at any location; and

26 (5) ~~Photograph~~ photograph for the purpose of documenting times of compliance or noncompliance at  
27 septage management facilities or to require the permit holder to make such photos for the Division.

28 (h) Washings from the interior of septage handling containers such as pump trucks shall be managed as septage.  
29 Failure of a person to follow a requirement in any rule set forth in this Section or the taking of any action prohibited  
30 by any rule in this Section shall constitute a violation of that rule.

31  
32 *History Note:* Authority G.S. 130A-291.1, 130A-291.2, 130A-295.3(c), 130A-335;

33 *Eff. October 1, 2009;*

34 *Amended Eff. January 1, 2014. 2014:*

35 *Readopted Eff. January February 1, 2019.*

1 15A NCAC 13B .0833 is readopted with changes as published in 33:04 NCR 404 as follows:

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3 **15A NCAC 13B .0833 SEPTAGE MANAGEMENT FIRM PERMITS**

4 (a) Septage management firm names ~~must~~ shall be distinguishable upon the records of the Division from the name of  
5 other septage management firms, limited liability companies, non-profit corporations, business corporations, limited  
6 partnerships, sole proprietors, general ~~partners~~ partners, and limited liability partnerships operating in North Carolina.  
7 Naming preference shall be given to companies that are listed as incorporated with the NC Secretary of State's office.

8 (b) A person who has not operated a septage management firm during the previous calendar year shall obtain four  
9 hours of new operator training from the Division prior to receiving a permit to operate a septage management firm.

10 (c) To apply for a permit, a person proposing to operate a septage management firm shall submit the following  
11 information to the Division by January 1 of each year:

- 12 (1) ~~Owner's~~ owner's name, ~~address~~ address, and phone number;
- 13 (2) ~~Business~~ business name, ~~address~~ address, and phone number;
- 14 (3) ~~Operator~~ operator name, ~~address~~ address, and phone number, if different from owner;
- 15 (4) ~~Permit~~ permit number, if existing firm;
- 16 (5) ~~Type(s)~~ type(s) of septage handled, and the quantity pumped the previous 12 months, if in operation;
- 17 (6) ~~Number~~ number of pumper trucks;
- 18 (7) ~~Capacity~~ capacity and type of septage handled by each pumper truck;
- 19 (8) ~~Vehicle~~ vehicle license and serial numbers of each pumper truck;
- 20 (9) ~~Counties~~ counties in which the firm operates;
- 21 (10) ~~Disposal~~ disposal method(s) for septage;
- 22 (11) ~~Permit~~ permit number for each septage land application site to be used;
- 23 (12) ~~Permit~~ permit number for each septage detention and treatment facility to be used;
- 24 (13) ~~Technical~~ any other information that the Division may request that is pertinent to the operation of a  
25 septage management ~~firm;~~ firm if it is necessary to determine compliance with the Rules of this  
26 Section;
- 27 (14) ~~Written~~ written authorization on official letterhead or a notarized wastewater treatment plant  
28 authorization form shall be submitted from an individual responsible for the operation of each  
29 wastewater treatment plant used for disposal indicating:
  - 30 (A) ~~Type(s)~~ type(s) of septage ~~which can~~ that may be discharged at the plant;
  - 31 (B) ~~Where~~ where septage, including grease septage, ~~can~~ may be discharged at the plant or in  
32 the collection system;
  - 33 (C) ~~Geographic~~ geographic area from which septage will be accepted; and
  - 34 (D) ~~Duration~~ duration of ~~authorization;~~ authorization;
- 35 (15) ~~The~~ the appropriate annual permit fee in accordance with G.S. 130A-291.1(e); and
- 36 (16) ~~The~~ the date, location, number of hours, and provider of annual septage management firm training  
37 required in accordance with G.S. 130A-291.3(a).



(d) Persons that operate a septage land application site or a septage treatment and detention facility, but do not pump septage, shall submit the following information to the Division by January 1 of each year to apply for a permit:

- (1) ~~Facility~~ facility name, address, phone number, and county;
- (2) ~~Owner's~~ owner's name, ~~address~~ address, and phone number;
- (3) ~~Operator~~ operator name, ~~address~~ address, and phone number, if different from owner;
- (4) ~~Permit~~ permit number, if existing firm;
- (5) ~~Type(s)~~ type(s) of septage managed;
- (6) ~~Facility~~ facility types and their permit numbers;
- (7) ~~The~~ the name and permit number of all permitted septage management firms using the facility;
- (8) ~~The~~ the date, location, number of hours, and provider of annual training in accordance with G.S. 130A-291.3(b); and
- (9) ~~The~~ the appropriate annual permit fee in accordance with G.S. 130A-291.1(e1).

(e) A septage management firm permit shall not be issued unless the applicant has submitted to the Division written documentation of authorized access to dispose or otherwise manage septage, or any part of septage, at a wastewater treatment plant, a permitted septage land application site, a permitted septage treatment facility, or other ~~appropriately~~ permitted solid waste management facility. Documentation from each plant, site, or other facility shall include the types and amount of septage ~~which~~ that may be discharged.

(f) Septage management firm permits shall not be issued until all parts of the application have been completed.

(g) Prior to the issuance of a septage management firm permit to firms that pump septage, all pumper trucks for the firm shall be inspected and approved by the Division for compliance with Rule .0844 of this Section. A septage management firm permit shall not be issued to firms that pump septage until its pumper truck(s) have been inspected and approved.

(h) ~~Permits are non-transferable.~~ shall not be transferable.

(i) Septage management firm permits ~~are issued for up to one calendar year.~~ Permits issued on or after January 1 shall be effective until December 31 of that calendar year.

*History Note:* Authority G.S. 130A-291.1;

*Eff. November 1, 2009. 2009;*

*Readopted Eff. January/February 1, 2019.*

1 15A NCAC 13B .0835 is readopted with changes as published in 33:04 NCR 404 as follows:

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3 **15A NCAC 13B .0835 SEPTAGE LAND APPLICATION SITE PERMITS**

4 (a) No person shall establish, or allow to be established upon any real property owned, operated, leased, or controlled  
5 by that person, established on his land, a septage management facility ~~to, to~~ treat, manage, store, or dispose of septage,  
6 or any component of septage, unless a permit has been obtained from the Division. Disposal of septage by trenching  
7 or burial is prohibited under the rules of this Section. Septage shall not be disposed of by trenching or burial.

8 (b) Any person that has not operated as a septage land application site during the previous calendar year shall receive  
9 at least three hours of new land application site operator training from the Division prior to receiving a permit to  
10 operate a septage land application site.

11 (c) To apply for a permit for a septage land application site, the following information shall be submitted to the  
12 Division:

13 (1) ~~Location of the site;~~

14 (2)(1) ~~Name,~~ name, address, and phone number of:

15 (A) the applicant;

16 (B) the land owner landowner or the owner's landowner's legal representative in control of the  
17 site; and

18 (C) the proposed operator;

19 (2) location of the site;

20 (3) ~~Written~~ written authorization to operate a septage land application site signed by each landowner (if  
21 other than the permit holder) or ~~his~~ the landowner's legal representative;

22 (4) ~~Types~~ types of septage (~~as defined in G.S. [130A-290]~~ 130A-290) and the proposed annual volume  
23 of each type of septage proposed for land application per acre, based on the nutrient management  
24 plan submitted in accordance with Subparagraph (c)(12) of this Rule; ~~submitted.~~

25 (5) ~~Substances~~ substances other than septage previously disposed of at this location, and the amounts  
26 of those substances;

27 (6) ~~Aerial~~ aerial photography extending for a distance of at least 2500 feet in all directions from the  
28 site, with site property boundaries depicted; ~~accurately depicted.~~ Photograph scale shall be 1" = 400  
29 feet or less;

30 (7) ~~Alternative~~ alternative plan for the detention or disposal of septage, during ~~adverse weather~~  
31 ~~conditions;~~ conditions that cause the site to be unavailable for [use;] use, such as adverse weather  
32 conditions;

33 (8) ~~Treatment~~ treatment method for each type of septage to be discharged and the permit number of any  
34 treatment facilities;

35 (9) ~~Vicinity~~ vicinity map (county road map) showing the site location;

36 (10) ~~A~~ a written report that documents compliance with Rule .0837 of this Section including: ~~Section,~~  
37 including, but not limited to the following: If required by G.S. 89F, G.S. 89C [89C,] and G.S. 89E,

a licensed soil scientist, professional engineer, or licensed geologist shall prepare these documents. [Note: The North Carolina Board of Licensing of Soil Scientists, Board of Examiners for Engineers and Surveyors [Surveyors,] and the Board of Licensing of Geologists has determined, via letters dated November 16, 2009, March 11, 2010 [2010,] and January 7, 2010, that preparation of documents pursuant to this Paragraph constitutes soil science, practicing engineering, or geology under G.S. 89F, G.S. 89C [89C,] and G.S. 89E.]

- (A) A ~~a~~ representative soils analysis (~~i.e., such as the Standard Soil Fertility Analysis, Analysis~~), conducted within the last six months, on each proposed field of each proposed land application site. The ~~Standard Soil Fertility Analysis~~ representative soils analysis shall ~~[include:] include~~ ~~shall include, but is not necessarily limited to:~~ acidity, base saturation (by calculation), calcium, cation exchange capacity, exchangeable sodium percentage (by calculation), magnesium, manganese, percent humic matter, pH, phosphorus, potassium, and ~~sodium; sodium~~, and may include additional analyses;
- (B) A ~~a~~ total metal analysis for each proposed field shall be conducted for arsenic, cadmium, copper, lead, nickel, selenium, and zinc. A North Carolina Department of Agriculture & Consumer Services (~~NCDA & CS~~)(~~NCSA&CS~~) mehlich-3 extraction ~~is shall be~~ an acceptable substitute for a total metal analysis. Mercury shall be sampled if the applicant proposes to land apply domestic or industrial or commercial treatment plant septage, or if warranted by previous site use;
- (C) ~~Field~~ field description of soil profile(s), based on examinations of excavation pits and auger borings, within four feet of the land surface or to bedrock describing the following parameters by individual diagnostic horizons: thickness of the horizon; texture; color and other diagnostic features; structure; internal drainage; depth, thickness, and type of restrictive horizon(s); and presence or absence and depth of evidence of any seasonal high water table. Applicants may be required to dig pits when necessary for proper evaluation of the soils at the site;
- (D) A ~~a~~ soil ~~map~~, scale 1" = 400 feet or less, map delineating major soil mapping units within each proposed land application site and showing all physical features, location of pits and auger borings, ~~applicable setbacks,~~ setbacks required in accordance with this Section, legends, scale, and a north arrow;
- (E) ~~If~~ if the annual application rate is proposed to exceed 125,000 gallons per acre per year, ~~year~~ field descriptions to a depth of six ~~feet~~ feet, shall be required; and
- (F) Global Positioning System (GPS) data compatible with the Division's ~~Department's~~ datalogger shall be provided for proposed sites 30 acres or more in size.

If required by G.S. 89F, G.S. 89C, and G.S. 89E, a licensed soil scientist, professional engineer, or licensed geologist shall prepare these documents. [Note: The North Carolina Board of Licensing of Soil Scientists, Board of Examiners for Engineers and Surveyors, and the Board of Licensing of

Geologists has determined, via letters dated November 16, 2009, March 11, 2010, and January 7, 2010, that preparation of documents pursuant to this Paragraph constitutes soil science, practicing engineering, or geology under G.S. 89F, G.S. 89C, and G.S. 89E.]

- (11) ~~Applicants~~ applicants proposing to land apply 200,000 gallons per acre per year or more shall provide a plan for monitoring soil moisture levels and the depth to seasonal wetness to determine when land application ~~can~~ may occur without impacting ~~ground-water~~ groundwater or hydraulic overloading. The plan shall include recommendations concerning annual and instantaneous loading rates of liquids, solids, other wastewater ~~constituents~~ constituents, and amendments based on in-situ measurement of saturated hydraulic conductivity in the most restrictive horizon. If required by G.S. 89C, G.S. ~~89F~~ 89E, and G.S. 89E, a professional engineer, licensed soil ~~scientist~~ scientist, or licensed geologist shall prepare these documents. [Note: The North Carolina Board of Examiners for Engineers and Surveyors, Board of Licensing of Soil ~~Scientists~~ Scientists, and the Board of Licensing of Geologists has determined, via letters dated March 11, 2010, November 16, ~~2009~~ 2009, and January 7, 2010, that preparation of documents pursuant to this Paragraph constitutes practicing engineering, soil ~~science~~ science, or ~~geology~~ geology under G.S. 89C, G.S. ~~89F~~ 89E, and G.S. 89E.]
- (12) ~~Nutrient management plan, prepared by a Technical Specialist, including at least a nutrient management plan prepared by an environmental professional that shall include the following: the following:~~
- (A) ~~Crops~~ crops that will be planted on the site, including cover crops, and where each crop will be planted. Crop planting locations shall be depicted on an aerial photograph or on a plat ~~map; map~~ (scale 1" = 400 feet or less);
  - (B) ~~Nitrogen~~ nitrogen needs of the crops based on the realistic yield expectations for the soils on the site, and crop management practices proposed;
  - (C) ~~Crop~~ crop stand density required to meet the realistic yield expectations for the proposed crop;
  - (D) ~~Approximate~~ approximate crop planting times and the seeding or sprigging rates for crops to be established;
  - (E) ~~Crop~~ crop harvest frequency appropriate for the proposed realistic yield expectations and nitrogen needs, and approximate crop harvest times;
  - (F) ~~Approximate~~ approximate monthly discharge rate to match the nitrogen needs and potential uptake of the crop;
  - (G) ~~Sites~~ sites proposed to receive more than 50,000 gallons per acre per year of ~~domestic septage, or domestic or industrial or commercial treatment plant septage~~ domestic or grease septage that has been treated to remove solids, fats, oils, and grease shall include nitrogen carry over when determining annual application rates;
  - (H) ~~Weed~~ weed control recommendations;
  - (I) ~~Crop~~ crop use or removal;

- (J) ~~Results~~ results from at least four samples of treated septage if the application is proposing an increased application rate for the land application of septage treated to reduce nutrients; and
- (K) ~~the signature of the site operator. A Technical Specialist is not required for nutrient management plans for subsequent applications that do not contain changes that would affect nutrient uptake; and~~
- (L) ~~All nutrient management plans shall bear the signature of the site operator.~~
- For the purposes of this Rule, an environmental professional means a person who has received a post-secondary degree from a college or university [baccalaureate or post graduate degree from a university] and has training and experience in or related to agronomic principles utilized to manage wastewater. Preparation by an environmental professional shall not be required for nutrient management plans for renewal applications that do not contain changes that would affect nutrient uptake.
- (13) ~~Application~~ application rates for sites proposed to receive treated septage shall be determined based on the most limiting nutrient;
- (14) ~~Erosion~~ erosion and runoff management plan showing:
- (A) ~~Buffer~~ buffer locations and widths based on the direction and amount of slope adjacent to the land application site;
- (B) ~~Vegetation~~ vegetation type and stand density in the buffer areas; and
- (C) ~~Buffer~~ buffer maintenance fertility requirements.
- (15) ~~Proposed~~ proposed land application ~~method, method;~~
- (16) ~~Proposed~~ proposed distribution plan if required in Paragraph (e) of Rule .0837 of this Section;
- (17) ~~Sites~~ sites proposing to use spray irrigation as a land application method shall include:
- (A) ~~The~~ the location of all fixed irrigation heads or the location of traveling gun irrigation lanes;
- (B) ~~Irrigation~~ irrigation head spacing and traveling gun lane spacing shall be determined based on standards in NC Cooperative Extension Documents AG-553-6 and AG-553-7 which are hereby incorporated by reference including subsequent amendments and additions; [additions,] or other similar publications;
- (C) ~~The~~ the size of all spray nozzles;
- (D) ~~System~~ system operating pressure at the irrigation head;
- (E) ~~Calculation~~ calculation of the wettable acres vs. permitted acreage;
- (F) ~~Calibration~~ calibration methods and frequency; and
- (G) ~~Irrigation~~ irrigation system operation and maintenance plan.
- (18) ~~Demonstration~~ [demonstration] documentation from the Department of Natural and Cultural Resources from the appropriate State or Federal Government agency that the land application site complies with ~~Paragraph (g) of Rule .0837~~ Rule .0837(g) of this Section if any part of the site specified for land application is not agricultural land;

- (19) ~~The~~ the date, location, number of hours, and provider of annual septage land application site operator training required in accordance with G.S. 130A-291.3(b);
- (20) ~~Technical~~ any other information ~~that the Division may request that is~~ pertinent to the suitability of the proposed ~~site; if it is necessary to determine compliance with this Section;~~
- (21) ~~An~~ an applicant who proposes to land apply ~~septage~~ septage, as defined in G.S. 130A-290, on a public contact site, shall provide the Division evidence of ~~adequate~~ public notice and the applicant shall have ~~successfully~~ completed the Land Application of Residuals ~~and Biosolids~~ Course and maintain a Land Application of Residuals Certificate ~~given~~ issued by the Department of ~~Environmental Quality; Environment and Natural Resources; and~~
- (22) ~~An~~ an applicant who proposes to land apply ~~commercial/industrial~~ industrial or commercial treatment plant septage or domestic treatment plant ~~septage~~ septage, as defined in G.S. 130A-290, shall have ~~successfully~~ completed the Land Application of Residuals ~~and Biosolids~~ Course and maintain a Land Application of Residuals Certificate ~~given~~ issued by the Department of ~~Environmental Quality; Environment and Natural Resources; and~~
- (23) ~~An~~ an applicant who proposes to land apply ~~septage~~ septage, as defined in G.S. 130A-290, in excess of 50,000 gallons per acre per year shall provide the Division with evidence of ~~adequate~~ public notice which shall at a minimum be publication ~~with a local news organization, in a local newspaper,~~ and shall have ~~successfully~~ completed the Land Application of Residuals ~~and Biosolids~~ Course and maintain a Land Application of Residuals Certificate issued by the Department of ~~Environmental Quality; and [Quality.] Environment and Natural Resources.~~
- (24) an approval letter from the unit of local government having zoning authority over the area where the facility is to be located stating that the proposed facility meets all of the requirements of the local zoning ordinance, or that the site is not zoned.
- (d) ~~The Division shall not issue a permit to land apply septage at a rate~~ Application rates for septage in excess of 50,000 gallons per acre per year ~~and permits or a permit~~ to land apply ~~domestic treatment plant septage domestic,~~ or industrial or commercial treatment plant septage ~~shall not be granted to persons who have not demonstrated that they can properly~~ until the applicant has operated ~~operate~~ a septage land application site in accordance with this Section for at least a 12 month period.
- (e) Applications for permits issued in accordance with this Rule shall be submitted to the Division of Waste Management, Solid Waste Section, 1646 Mail Service Center, Raleigh NC 27699-1646. Applications for permits will not be reviewed until all parts of the application have been completed and submitted to the Division.
- (f) Applications for permits ~~for sites or treatment methods which~~ that do not meet the standards in accordance with this Section shall be denied.
- (g) Applications for renewal permits issued in accordance with this Rule shall be submitted to the Division at least 90 days prior to the expiration date of the permit. The Division shall notify permit holders of facility permit expiration dates 120 days prior to permit expiration.
- (h) Applications for permit modification shall be required for the following changes:

- 1           (1)     ~~Permitted~~ permitted area or field boundaries;
- 2           (2)     ~~Property~~ property ownership;
- 3           (3)     ~~Annual~~ annual application rates;
- 4           (4)     ~~Receiver~~ receiver crop; or
- 5           (5)     ~~Types~~ types of septage discharged.
- 6       (i) Applications for renewal permits submitted in accordance with Paragraph (g) of this Rule and applications for
- 7       permit modifications shall not be required to resubmit the information required in Subparagraphs (c)(6), (8), (9), (10),
- 8       (16), (17), and (18) unless changes are made in those plans.
- 9       (j) Septage land application site permits ~~are~~ shall not ~~be~~ transferable.
- 10      (k) ~~Maximum permit~~ Permit duration ~~including renewals~~ is shall be five years, in accordance with Rule .0832(a)(8)
- 11      of this Section.
- 12      ~~(l) Issuance of a permit does not relieve the permit holder of the responsibility of obtaining applicable zoning~~
- 13      ~~approvals prior to operation of the site.~~

14

15     *History Note:     Authority G.S. 130A-291.1;*

16                         *Eff. April 1, 2010; 2010;*

17                         *Readopted Eff. January/February 1, 2019.*

1 15A NCAC 13B .0836 is readopted with changes as published in 33:04 NCR 404 as follows:

2  
3 **15A NCAC 13B .0836 SEPTAGE DETENTION AND TREATMENT FACILITY PERMITS**

4 (a) ~~No person, shall establish on his land, No person shall establish,~~ or allow to be established upon any real property  
5 owned, operated, leased, or controlled by that person, on his land, a septage detention and treatment facility, unless a  
6 permit ~~for the facility~~ has been obtained from the Division or the facility is operating in accordance with a NPDES  
7 permit issued by the NC Division of Water Resources. Quality.

8 (b) Septage detention and treatment facilities shall be designed, located, constructed, and operated in accordance with  
9 the standards specified in Rule .0841 of this Section.

10 (c) To apply for a permit to operate for a septage detention or [and] treatment facility the applicant shall submit the  
11 following information to the Division:

12 (1) ~~Name, name,~~ address, and phone number of

13 (A) the applicant;

14 (B) the landowner ~~land owner~~ or the ~~owner's~~ landowner's legal representative in control of the  
15 site; and

16 (C) the proposed operator;

17 (2) ~~Location~~ location of the facility;

18 (3) ~~Vicinity~~ vicinity map or county road map showing the site location;

19 (4) ~~Types~~ types of septage to be stored or treated;

20 (5) ~~A~~ a description of the facility including the size, number, and type of structures to be used at the site  
21 and construction materials to be used;

22 (6) ~~An~~ an explanation of the methods for discharge into and removal from the detention or treatment  
23 facility, the methods for treating leaks or spills at the site, and methods for odor control;

24 (7) ~~Septage~~ septage land application site permit number and the name of any wastewater treatment  
25 plant(s) where the septage will be disposed;

26 (8) ~~Written~~ written documentation of ~~acceptable~~ approved locations to manage any solid or liquid  
27 wastes generated at a treatment facility;

28 (9) ~~An~~ an aerial photograph, extending for a distance of at least 1,000 feet in all directions from the site  
29 property ~~lines; lines, scale 1" = 400 feet or less;~~

30 (10) ~~Written~~ written authorization to operate a septage detention or treatment facility signed by each  
31 landowner (if other than the permit holder) or ~~his~~ the landowner's legal representative; and

32 (11) ~~Technical~~ any other information that the Division may request that is pertinent to the suitability of  
33 the proposed ~~facility.~~ facility if it is necessary to determine compliance with this Section; and

34 (12) an approval letter from the unit of local government having zoning authority over the area where  
35 the facility is to be located, stating that the proposed facility meets all of the requirements of the  
36 local zoning ordinance, or that the site is not zoned.



(d) Treatment of septage shall include aerobic or anaerobic digestion, dewatering or thickening, pressing, centrifuging, the use of organisms or enzymes, and pathogen reduction methods or vector attraction reduction methods other than lime stabilization. To apply for a permit to construct a septage treatment facility and obtain an interim permit to operate the [facility] facility, for a period not to exceed 12 months, plans and specifications shall be submitted. If required by G.S. 89C, a professional engineer shall prepare these documents. [Note: The North Carolina Board of Examiners for Engineers and Surveyors has determined, via letter and resolution dated March 11, 2010, that preparation of engineering design documents pursuant to this Paragraph constitutes practicing engineering under G.S. 89C.]

(e) Treatment shall [include] include, but not be limited to, aerobic or anaerobic digestion, dewatering or thickening, pressing, centrifuging, the use of organisms or enzymes, and pathogen reduction methods or vector attraction reduction methods other than lime stabilization. To apply for a permit to operate a septage treatment facility, plans and specifications shall be submitted. If required by G.S. 89C, a professional engineer shall prepare these documents. The plans shall include the information set forth in Paragraph (c) of this Rule and the following: In addition to the requirements of Paragraph (e) of this Rule, the plans [required by Paragraph (d) of this Rule] shall include:

- (1) Site site plan at a scale appropriate to show the detail of the facility, but in no case greater than 100 feet per inch;
- (2) Engineering engineering plans for the entire system, including treatment, storage, and disposal equipment, and containment structures;
- (3) Detail [detailed] drawings [that] shall be at a scale appropriate to show pumps, tanks, valves, controls, meters, pipes, and other items critical to the operation of the [facility. facility; As-built drawings shall be submitted if the facility construction is not consistent with the initial drawings:]
- (4) An an operation and maintenance manual signed by the applicant outlining information and instruction on how the facility is to be operated, equipment maintenance, minimization of odors, required safety and personnel training, and an outline of reports to be submitted to the Division. Contingency plans shall be included to address at least equipment failure, human error, inclement weather, and spill and leak cleanup; and
- (5) A a quality assurance plan signed by the applicant for the process and final product if treatment involves meeting pathogen reduction or vector attraction reduction standards.
- (6) compliance history for the facility showing no unresolved violations of Federal, State, or local laws, rules, regulations, or ordinances; and
- (7) certification that the construction of the treatment facility is complete and consistent with the plans submitted in accordance with this Paragraph;

[Note: The North Carolina Board of Examiners for Engineers and Surveyors has determined, via letter and resolution dated March 11, 2010, that preparation of engineering design documents pursuant to this Paragraph constitutes practicing engineering under G.S. 89C.]

(f) A permit to operate a septage treatment facility shall be issued pending receipt of the following:

- (1) ~~Certification [certification] that the construction of the treatment facility is complete and consistent with the plans approved as part of the permit to construct;~~
- (2) ~~An [an] updated operation and maintenance manual, including all the information required in Subparagraph (c)(4) of this Rule;~~
- (3) ~~As built [as built] drawings if facility construction is not consistent with the approved plans;~~
- (4) ~~Operation [operation] and maintenance manuals and quality assurance plans signed by the applicant;~~  
~~and~~
- (5) ~~Acceptable compliance history for the facility. [facility showing no unresolved violations of Federal, State, or local laws, rules, regulations, or ordinances.]~~

~~(f)(g)~~ A permit ~~to operate for~~ a new septage detention ~~or a septage and~~ treatment facility shall not be issued until the proposed site has been approved by the Division. Approval by the Division shall be based on whether the facility is in accordance with the Rules of this Section.

~~(g)(h)~~ Operation of a new septage detention or a new septage treatment facility shall not commence until the facility has been inspected by the Division and found to be consistent with the permit application.

~~(h)(i)~~ A permit to operate a treatment facility shall not be issued until the facility has been inspected by the Division and found to be consistent with the permit application and operation has been found to be consistent with the operation and maintenance manual.

~~(i)(j)~~ Application packages for permit renewals for septage treatment facilities shall include:

- (1) ~~Updated drawings~~ updated drawings, if there are changes to the ~~facility;~~ facility;
- (2) ~~Updated site plans~~ updated site plans, (if required as part of original submittal) if there are changes to the ~~initial site plan;~~ plan;
- (3) ~~A revised~~ updated operation and maintenance manual, if there are changes to the operation and maintenance manual; and
- (4) ~~A revised~~ updated quality assurance plan, if there are changes to the quality assurance plan. ~~plan for the process and final product if treatment involves meeting pathogen reduction or vector attraction reduction standards.~~

~~(j)(k)~~ Engineering plans and specifications for marina detention tanks that do not meet the minimum setbacks in ~~.0841(m)~~ Rule .0841(m) of this Section or are located below grade shall be submitted. If required by G.S. 89C, a professional engineer shall prepare these documents. [Note: The North Carolina Board of Examiners for Engineers and Surveyors has determined, via letter and resolution dated March 11, 2010, that preparation of engineering design documents pursuant to this Paragraph constitutes practicing engineering under G.S. 89C.] The facilities shall be certified to be constructed in substantial compliance with the plans and ~~specifications.~~ specifications submitted in accordance with this Rule. If required by G.S. 89C, a professional engineer shall certify this compliance. [Note: The North Carolina Board of Examiners for Engineers and Surveyors has determined, via letter and resolution dated March 11, 2010, that preparation of engineering design documents pursuant to this Paragraph constitutes practicing engineering under G.S. 89C.]

1 ~~(k)(4)~~ Parts of detention and treatment facilities located below grade and lagoons shall be certified to be constructed  
2 in substantial compliance with the plans and specifications submitted in accordance with this Rule. specifications. If  
3 required by G.S. 89C, a professional engineer shall certify this compliance. [the construction.] [Note: The North  
4 Carolina Board of Examiners for Engineers and Surveyors has determined, via letter and resolution dated March 11,  
5 2010, that preparation of engineering design documents pursuant to this Paragraph constitutes practicing engineering  
6 under G.S. 89C.]

7 ~~(l)(m)~~ Applications shall be submitted to the Division of Waste Management, Solid Waste Section, 1646 Mail Service  
8 Center, Raleigh NC 27699-1646. Applications for permits will not be reviewed until all parts of the application have  
9 been completed and submitted to the Division.

10 ~~(m)(n)~~ Applications for renewal permits shall be ~~made~~ submitted to the Division at least 90 days prior to the expiration  
11 of the permit. The Division ~~will~~ shall notify permit holders of facility permit expiration dates 120 days prior to permit  
12 expiration.

13 ~~(n)(o)~~ Applications for renewal permits submitted in accordance with Paragraphs (i) and (m) Paragraph (j) [and (n)]  
14 of this Rule and applications for permit modifications shall not be required to resubmit the information required in  
15 Subparagraphs (c)(3) and (9), and Paragraph (d) of this Rule unless changes are made in those plans.

16 ~~(o)(p)~~ Septage detention and treatment facility permits ~~are~~ shall not ~~be~~ transferable.

17 ~~(p)(q)~~ ~~Maximum permit~~ Permit duration ~~including renewals is~~ shall be five years. in accordance with Rule .0832(a)(8)  
18 of this Section.

19 ~~(q)(r)~~ Applications for permit modifications shall be required for the following changes: ~~changes in:~~

- 20 (1) ~~Property~~ property ownership;
- 21 (2) ~~Treatment~~ treatment methods;
- 22 (3) ~~Types~~ types of septage to be stored or treated; or
- 23 (4) ~~Size~~ size and number of treatment or storage structures.

24 ~~(r)(s)~~ Applications for facilities ~~which that~~ do not meet the standards set forth in this Section shall be denied.

25 ~~(s)(t)~~ An application requesting reduced setbacks in accordance with Rule .0841(m)(7) of this Section shall include a  
26 letter from the appropriate local zoning ~~office,~~ office approving proposed reduced setbacks.

27 ~~(u)~~ ~~Issuance of a permit does not relieve the permit holder of the responsibility of obtaining applicable zoning~~  
28 ~~approvals prior to operation of the facility.~~

30 *History Note: Authority G.S. 130A-291.1;*

31 *Eff. April 1, 2010. 2010;*

32 *Readopted Eff. January/February 1, 2019.*

1 15A NCAC 13B .0837 is readopted with changes as published in 33:04 NCR 404 as follows:

2  
3 **15A NCAC 13B .0837 LOCATION OF SEPTAGE LAND APPLICATION SITES**

4 (a) Soil characteristics (Morphology) ~~which that~~ shall be evaluated are as follows:

5 (1) Texture – The relative proportions of the sand, silt, and clay sized mineral particles in the fine-earth  
6 fraction of the soil are referred to as soil texture. The texture of the different horizons of soils shall  
7 be classified into three general groups and 12 soil textural classes based upon the relative proportions  
8 of sand, silt, and clay sized mineral particles.

9 (A) Soil Group I – Sandy Texture Soils: The sandy group includes the sand and loamy sand  
10 textural classes.

11 (B) Soil Group II – Coarse Loamy and Fine Loamy Texture Soils: The coarse loamy and fine  
12 loamy group includes sandy loam, loam, silt, silt loam, sandy clay loam, clay loam, and  
13 silty clay loam textural classes.

14 (C) Soil Group III – Clayey Texture Soils: The clayey group includes sandy clay, silty clay,  
15 and clay textural classes.

16 (2) The soil textural class shall be determined in the field by hand texturing samples of each soil horizon  
17 in the soil profile using the following criteria:

18 (A) Sand: Sand has a gritty feel, does not stain the fingers, and does not form a ribbon or ball  
19 when wet or moist;

20 (B) Loamy Sand: Loamy sand has a gritty feel, stains the fingers, forms a weak ball, and cannot  
21 be handled without breaking;

22 (C) Sandy Loam: Sandy loam has a gritty feel and forms a ball that can be picked up with the  
23 fingers and handled with care without breaking;

24 (D) Loam: Loam may have a slightly gritty feel but does not show a fingerprint and forms only  
25 short ribbons of from 0.25 inch to 0.50 inch in length. Loam ~~will form-forms~~ a ball that can  
26 be handled without breaking;

27 (E) Silt Loam: Silt loam has a floury feel when moist and ~~will show-shows~~ a fingerprint but  
28 ~~will does~~ not ~~form a~~ ribbon and forms only a weak ball;

29 (F) Silt: Silt has a floury feel when moist and sticky when wet but ~~will does~~ not ~~form a~~ ribbon  
30 and forms a ball that ~~will tolerate-tolerates~~ some handling;

31 (G) Sandy Clay Loam: Sandy clay loam has a gritty feel but contains enough clay to form a  
32 firm ball and may ~~form ribbons from ribbon-to-form~~ 0.75 inch to one-inch long pieces;

33 (H) Silty Clay Loam: Silty clay loam is sticky when moist and ~~will-forms a~~ ribbon from one to  
34 two inches. Rubbing silty clay loam with the thumbnail produces a moderate sheen. Silty  
35 clay loam produces a distinct fingerprint;

- (I) Clay Loam: Clay loam is sticky when moist. Clay loam forms a thin ribbon of one to two inches in length and produces a slight sheen when rubbed with the thumbnail. Clay loam produces a nondistinct fingerprint;
- (J) Sandy Clay: Sandy clay is plastic, ~~gritty~~ gritty, and sticky when moist and forms a firm ball and produces a thin ribbon ~~to~~ over two inches in length;
- (K) Silty Clay: Silty clay is both plastic and sticky when moist and lacks gritty feeling. Silty clay forms a ball and ~~readily~~ ribbons to over two inches in length;
- (L) Clay: Clay is both sticky and plastic when moist, produces a thin ribbon over two inches in length, produces a high sheen when rubbed with the thumbnail, and forms a strong ball resistant to breaking;
- (M) The Division ~~may shall~~ substitute allow laboratory determination of the soil textural class as defined in this Section by particle-size analysis of the fine-earth fraction (less than 2.0 mm in size) using the sand, ~~silt~~ silt, and clay particle sizes as defined in this Section for field testing when conducted in accordance with ASTM (~~American Society for Testing and Materials~~) D-422 procedures standard test methods D6913 for sieve analysis or D7928 for sieve and hydrometer analysis. ~~For fine loam and clayey soils (Group II and III) the dispersion time shall be increased to 12 hours.~~
- (3) Wetness Condition:
- (A) Soil wetness conditions caused by a seasonal ~~high water~~ high water table, perched water table, tidal water, or seasonally saturated soils shall be determined by observation of common soil mottles of colors of chroma 2 or less, using the Munsell color chart, in mottle or a solid mass. If drainage modifications have been made, the soil wetness conditions may be determined by direct observation of the water surface in monitoring wells during periods of typically high water elevations. However, colors of chroma 2 or less ~~which that~~ are relic from minerals of the parent material shall not be considered indicative of a soil wetness condition.
- (B) Soils ~~which that~~ do not meet the required depths to a soil wetness condition as set forth in Subparagraphs (4) – (7) of this Paragraph shall be considered unsuitable and septage shall not be applied, unless the required depths separation distances can may be maintained. Water table monitoring wells may be utilized to determine the actual depth to a soil wetness condition. The Division may limit discharges to certain months where soil wetness conditions are marginal for use.
- (C) The required depth to a soil wetness condition is determined by the Soil Group Textural Classification. Classification, as set forth in Subparagraphs (4) – (7) of this Paragraph.
- (4) Soil Group I soil shall be considered suitable where soil wetness conditions are deeper than 36 inches below the point of septage application or incorporation.

(5) Soil Group II soils shall be considered suitable where soil wetness conditions are deeper than 24 inches below the point of septage application or incorporation.

(6) Soil Group III soils shall be considered suitable where soil wetness conditions are deeper than 18 inches below the point of septage application or incorporation.

(7) Depth to rock: soil depth shall be considered suitable where depth to rock is deeper than 24 inches below the point of septage application or incorporation or deeper than 18 inches if the septage is pretreated to accomplish pathogen reduction and surface applied over vegetation.

(8) Mine reclamation sites ~~will~~ shall be considered on a ~~case-by-case~~ case-by-case basis-basis, based on compliance with the Rules of this Section, the previous use of the mine, and the current condition of the mine.

(b) Septage land application sites shall not be located in the watershed of a Class WS-I stream. New septage land application sites shall not be located in the water quality critical area of Class WS-II, WS-III, or WS-IV streams or reservoirs. This prohibition ~~does~~ shall not apply to those portions of a water supply watershed ~~that which~~ are drained by Class B or Class C streams.

(c) ~~Setbacks.~~ At the time of initial permitting, septage land application sites shall observe the minimum setback distances specified in this Rule. Minimum setbacks shall be maintained throughout the life of the site only on land owned, ~~operated~~ operated, or controlled by the permittee or by the landowner(s) at the time of initial permitting. Any sale, ~~lease~~ lease, or other conveyance of land by the permittee, or by the landowner(s) if different from the permittee, subsequent to the initial permitting of the site shall include restrictions to ensure continued maintenance of the setbacks. ~~Failure to maintain required setbacks shall result in immediate permit revocation.~~

(d) All septage disposal sites shall be located at least the minimum distance specified for the following:

(1) ~~Residence~~ residence:

(A) not occupied by the applicant – 500 ~~feet~~ feet;

(B) ~~residence~~ occupied by the applicant – 100 feet;

(2) ~~Place~~ place of business, other than the septage management ~~firm's office or related buildings, firm~~ office, or place of public assembly – 500 feet;

(3) ~~Well~~ well or water supply spring – 500 feet;

(4) ~~Surface waters. Stream~~ surface waters – stream classification shall be determined in accordance with 15A NCAC 02B .0301 through .0317 Assignment of Stream Classifications;

(5) ~~Fresh~~ fresh waters:

(A) Class WS-I, Class WS-II, or Class WS-III streams – 300 feet;

(B) Class B stream – 300 feet;

(C) Class C stream – 200 feet; ~~and~~

(D) ~~Other~~ other streams and bodies of water – 200 feet;

(6) ~~Tidal~~ tidal salt waters:

(A) Class SA or Class SB – 300 feet from mean high water mark; ~~and~~

(B) Class SC and other coastal waters – 200 feet from mean high water mark; ~~mark.~~

- (7) ~~Supplemental~~ supplemental classifications:
- (A) ~~Trout trout~~ waters and swim waters – 200 feet; ~~and~~
- (B) ~~Nutrient nutrient~~ sensitive waters and outstanding resource waters – 300 ~~feet; feet.~~
- (8) ~~Groundwater groundwater~~ lowering ditches and devices – 100 feet;
- (9) ~~Adjoining adjoining~~ property under separate ownership or control – 50 feet;
- (10) ~~Public public~~ road right of ways – 100 feet;
- (11) ~~Food food~~ crops – 50 feet;
- (12) ~~Wetlands wetlands~~ – 50 feet;
- (13) ~~Woods woods~~ line – five feet, unless greater distance is required as part of an erosion and runoff control plan;
- (14) ~~Land land~~ application site on the same tract of land, permitted to a different operator – 100 feet; and
- (15) ~~Setbacks setbacks~~ in Subparagraphs (d)(3), (4), (5), (6), (7), and (8) of this Rule may be reduced 50 percent when septage is pretreated to accomplish pathogen reduction and when the land within the setback area is in permanent, established grass with at least 95 percent cover or when the setback area is in forest with a continuous canopy and a 95 percent forest litter cover. Accurate property line locations ~~are~~ shall be the responsibility of the site operator.

(e) Septage land application sites less than five acres in size, individual fields of a site less than two acres in size, and sites with complex soil patterns or unusual shapes shall be permitted only if the applicant demonstrates to the Division that the site ~~can will~~ be properly managed for crop production and that septage will be applied with uniform distribution over the entire permitted application area. ~~can be evenly distributed over the site.~~

(f) Septage land application sites shall not be located where the slope of the land is greater than 12 percent unless all of the conditions of this Paragraph are met:

- (1) ~~The the~~ site is in permanent, established grass with at least 95 percent cover or is in forest with a continuous canopy and a 95 percent forest litter cover;
- (2) ~~Plans~~ the erosion and runoff management plans submitted to the Division ~~are prepared~~ in accordance with Rule .0835(c)(14) of this Section ~~accepted~~ [approved] ~~erosion and runoff control practices and shall~~ indicate the following:
- (A) ~~Management management~~ practices and discharge methods ~~which that~~ will be used to reduce the potential for run-off from the site and ~~assure even septage distribution over the site~~ allow for the uniform distribution of septage over the entire permitted application area; and
- (B) ~~Location location~~ of potential surface water monitoring devices upslope and downslope from the area proposed to be permitted and identification of sampling methods. Monitoring may be ~~required; if there is an indication that septage is entering surface waters.~~
- (3) The Division may increase setbacks or decrease application rates for the protection of surface waters; Setbacks will be increased and application rates decreased as appropriate to protect any nearby surface waters which are to be approved by the Division; and

(4) ~~No~~ no site shall include slopes in excess of 25 percent.

(g) A new septage land application site shall not jeopardize the continued existence of threatened or endangered species or result in the destruction or adverse modification of a critical ~~habitat~~, habitat protected under the Federal Endangered Species Act of 1973. Agricultural land shall not be considered potential habitat.

(h) Septage, or any part of septage, ~~as defined in G.S. 130A-290,~~ treated to meet the standard for Class A sewage sludge in accordance with the federal regulations for pathogen reduction and vector attraction reduction in 40 CFR Part 503, Subpart D, may be permitted by the Division for application to a public contact site, home lawns and gardens, or to be sold or given away in a bag or other container, provided it can be demonstrated that pollutant limits in 40 CFR ~~503.13(b)(3)~~ 503.13(b)(4) Table 3 Pollutant Concentrations are not exceeded. Persons who prepare the septage, and persons who derive material from the septage, shall comply with the applicable record keeping requirements in 40 CFR 503.17(a)(1), (2) or (6). Treatment verification, acceptable to the Division, shall be available. Documentation and certification by the operator that the treatment method meets the Class A standard shall be available to the Division upon request. All treatment methods and facilities shall obtain a permit from the Division in accordance with Rule .0836 of this Section. ~~.0836.~~

*History Note: Authority G.S. 130A-291.1;*  
*Eff. October 1, 2009. 2009;*  
*Readopted Eff. January/February 1, 2019.*



1 15A NCAC 13B .0838 is readopted with changes as published in 33:04 NCR 404 as follows:

3 **15A NCAC 13B .0838 MANAGEMENT OF SEPTAGE LAND APPLICATION SITES**

4 (a) General requirements for septage land application ~~sites~~; sites shall include the following:

- 5 (1) ~~Only~~ only domestic septage, as defined in G.S. 130A-290, shall be land applied or otherwise placed  
6 on a septage land application site, unless specified in the permit;
- 7 (2) ~~Each~~ each site shall be posted with visible and legible "NO TRESPASSING" signs. ~~Access~~ All  
8 access roads or paths crossing or leading to the disposal area shall be posted "NO TRESPASSING"  
9 and a visible and legible sign ~~of at least two feet by two feet~~ stating "SEPTAGE LAND  
10 APPLICATION SITE" shall be maintained at each entrance to the land application area;
- 11 (3) ~~Each~~ each site shall have an all weather access road;
- 12 (4) ~~No~~ no hazardous wastes shall be permitted on the site;
- 13 (5) ~~No~~ no site shall be permitted for land application of industrial or commercial septage unless the  
14 applicant demonstrates to the Division that the strength of the organic and inorganic components of  
15 the septage is within the normal range for domestic septage;
- 16 (6) ~~Treatment Plant Septage~~ treatment plant septage generated by the operation of a wastewater system  
17 permitted under Article 11 of Chapter 130A may be land applied at a septage land application site  
18 permitted under this Section;
- 19 (7) ~~Septage~~ septage shall be applied to the surface of the land from a moving vehicle ~~in such a manner~~  
20 ~~as~~ to have no standing liquid or soil disturbance resulting from the waste flow after the discharge is  
21 complete;
- 22 (8) ~~Septage~~ septage shall not be applied to a site if any liquid is ponded on the site or if the site is  
23 flooded, frozen, or snow covered;
- 24 (9) ~~Septage~~ septage shall not be applied to a site if the application method will result in ruts greater than  
25 three inches in the soil surface;
- 26 (10) ~~Disposal~~ disposal area boundaries shall be ~~clearly~~ marked on the ground while a site or any portion  
27 of a site is in ~~use~~; use. Markers shall be of adequate height and spacing such that they are [clearly]  
28 visible and distinguishable from the surrounding landscape for determining the disposal boundaries  
29 when the site is in use;
- 30 (11) ~~All~~ all septage discharges shall be made at a location on the site consistent with the nutrient  
31 management plan;
- 32 (12) ~~All~~ all septage discharges, including aerial drift from discharges, shall be made within the permitted  
33 boundaries of the land application site;
- 34 (13) ~~Land~~ land application of septage shall be limited to a maximum daily hydraulic application rate of  
35 one acre inch;
- 36 (14) ~~Grease septage from a grease trap, interceptor, separator, or other appurtenance used for the purpose~~  
37 ~~of removing cooking oils, fats, grease, and food debris from the waste flow generated from food~~

1 ~~handling, preparation, and cleanup shall not be land applied unless the trap has been pumped within~~  
2 ~~the last 90 days or the grease septage adequately screened or dewatered to prevent damage to land~~  
3 ~~application site vegetation;~~

4 ~~(14)(15)~~ Grease grease septage shall be diluted at least 1:1 from its concentration when pumped with  
5 domestic septage or water if land applied over perennial vegetation. This dilution shall be increased  
6 if crop damage occurs. This dilution requirement shall not apply to the liquid portion of grease  
7 septage that has been adequately treated to remove solids, fats, ~~oils~~ oils, and grease as long as crop  
8 damage does not occur;

9 ~~(15)(16)~~ Solids solids resulting from septage treatment shall not be land applied unless the solids are treated  
10 to meet pathogen reduction and vector attraction reduction requirements in 40 CFR 503, and the  
11 permittee has ~~satisfactorily~~ demonstrated to the Division that the solids ~~can be evenly land applied~~  
12 will be land applied with uniform distribution over the entire permitted application area at  
13 agronomic rates with standard agricultural spreading equipment;

14 ~~(16)(17)~~ The the site shall be managed ~~in such a manner as~~ to minimize soil erosion and surface water runoff.  
15 Appropriate soil and water management practices shall be implemented and maintained in  
16 accordance with the ~~Division approved~~ erosion and run-off ~~control plan.~~ management plan  
17 submitted in accordance with Rule .0835(c)(14) of this Section. All water control structures shall be  
18 designed, installed, and maintained to control the run-off resulting from a 10-year storm;

19 ~~(17)(18)~~ Approved approved nutrient management plans shall be followed;

20 ~~(18)(19)~~ Land land application sites or portions of land application sites that do not follow the approved  
21 nutrient management plan shall not be used for land application until brought into compliance with  
22 the nutrient management plan;

23 ~~(20)~~ alternate plan for the storage or disposal of septage during periods when the permitted land  
24 application site is not available;

25 ~~(19)(21)~~ Land land application sites permitted for the management of grease septage, or commercial or  
26 industrial septage, shall have a septage detention facility available, of adequate size to meet the  
27 requirement of Subparagraph ~~(a)(15)(a)(14)~~ (a)(15)(a)(14) of this Rule; and

28 ~~(20)(22)~~ A a septage land application site permit holder or operator is responsible for the actions of any  
29 septage management firm that the permit holder or operator allows to use ~~their~~ his or her ~~his~~ land  
30 application site.

31 (b) Maximum land application rates for septage shall be determined based upon the following:

32 (1) ~~Domestic domestic~~ domestic septage land application rates shall be in accordance with 40 CFR ~~Part~~  
33 503.12(c);

34 (2) ~~Land land~~ Land land application of domestic treatment plant septage shall not exceed the rate in 40 CFR  
35 503.14(d);

36 (3) ~~Pollutant pollutant~~ pollutant limits for regulated metals in 40 CFR ~~part~~ 503.13 shall not be exceeded for any  
37 type of septage;

- (4) ~~Grease grease~~ septage shall be land applied at a rate that is equal to or less than the agronomic rate, but in no case shall the application of untreated grease septage exceed 25,000 gallons per acre per year;
- (5) ~~Sites sites~~ permitted for the land application of grease septage shall meet the requirements of 40 CFR ~~Part~~ 257.3-5;
- (6) ~~Land land~~ application rates for septage treated to reduce solids, nutrients, or pollutants shall be determined based on the analysis of the treated material;
- (7) ~~At at~~ least four analyses of treated liquid shall be required prior to receiving an adjusted land application rate. Additional samples ~~shall may~~ be required for ~~inconsistent analysis results; highly variable material;~~
- (8) ~~Each each~~ analysis shall include nitrogen panel, phosphorus, potassium, soluble salts, pH, ~~and~~ regulated metals except mercury, calcium, manganese, magnesium, iron, sulfur, boron and chlorine;
- (9) ~~After after~~ an adjusted ~~land application~~ rate is approved, sampling shall be required every 60 days for the ~~initial first~~ 12 months of operation;
- (10) ~~After after~~ the initial 12 months, wastes with consistent sample results shall be sampled quarterly; and
- (11) ~~Land land~~ application rates for industrial or commercial septage, or commercial or industrial treatment plant septage shall be determined as specified in Subparagraphs (b)(1) and (b)(2) of this Rule unless testing determines that a lower rate is necessary due to other non-domestic pollutants.
- (c) Septage treatment standards:
- (1) ~~Domestic domestic~~ septage shall be treated in accordance with the requirements in 40 CFR ~~Part~~ 503 Subpart D (including Appendix A and B) except that 503.33(b)(11) is not incorporated;
- (2) ~~Grease grease~~ septage, treated grease septage, ~~commercial or industrial or commercial~~ treatment plant septage, and ~~commercial/industrial industrial or commercial~~ septage shall be treated in accordance with 40 CFR 257.3-6 or treated by an equivalent or more stringent process in 40 CFR 503 Subpart D;
- (3) ~~Grease grease~~ septage, or any part of grease septage, mixed with domestic septage shall be treated as grease septage; and
- (4) ~~Domestic domestic~~ treatment plant septage shall be treated to meet the pathogen reduction and the vector attraction reduction requirements in 40 CFR ~~503, Subpart~~ 503 D.
- (d) No one other than the permit holder shall land apply septage at a permitted site unless approved in writing by the Division. The permit holder shall submit a written request and written authorization from the landowner(s), if different from the permit holder. The request shall include the name of the firm requesting approval and the type and amount of septage proposed to be discharged. ~~The Division may approve the request if the land application activity, the permit holder, and the firm requesting approval to land apply are in compliance with Rules of this Section.~~
- (e) Permit holders of septage land application sites shall develop and maintain records and reports to demonstrate compliance with this Section and the permit requirements of each site.

- 1           (1) ~~Permit~~ permit holders of sites receiving septage shall maintain a log which meets the requirements  
2           of 40 CFR ~~Part~~ 503.17(b);
- 3           (2) ~~Permit~~ permit holders of all septage land application sites shall have all records and certifications  
4           and test results required in accordance with this Section ~~to be kept~~ available for review during any  
5           announced site inspections by the Division or upon the Division's request; ~~Division~~; and
- 6           (3) ~~The~~ the permit holder of a site where more than one septage management firm has been authorized  
7           by the Division to discharge septage shall submit a monthly report to the Division ~~that~~ which shall  
8           include the following information for each discharge: the date and quantity of each discharge, the  
9           type of septage discharged, and the name of the septage management firm discharging.
- 10          (4) ~~All test results for nutrients, metals, contaminants, and pathogens required in this Section shall be~~  
11          ~~maintained by the site operator or the preparer.~~
- 12          (f) Septage shall not be land applied at a new septage land application site until a representative of the Division has  
13          inspected the site to determine compliance with these rules and consistency with the permit application and all permit  
14          conditions.
- 15          ~~(g) Methods of land application for which there are no standards in these rules shall be permitted only if it can be~~  
16          ~~demonstrated that the proposed method manages septage in a manner at least equivalent to these Rules and to protect~~  
17          ~~public health and the environment. Plans shall be submitted and prepared in accordance with professional engineering~~  
18          ~~principles.~~
- 19
- 20          History Note:     Authority G.S. 130A-291.1;  
21                             Eff. October 1, ~~2009~~; 2009;  
22                             Readopted Eff. ~~January~~ February 1, 2019.

1 15A NCAC 13B .0841 is readopted with changes as published in 33:04 NCR 404 as follows:

2  
3 **15A NCAC 13B .0841 STANDARDS FOR SEPTAGE DETENTION AND TREATMENT FACILITIES**  
4 **FACILITIES**

5 (a) Septage detention ~~facilities,~~ facilities used to meet the requirements of Rule ~~.0838(a)(19) .0838(a)(20) or (21)~~ of  
6 this ~~Section,~~ Section shall have a minimum size equal to two percent of the maximum annual application rate. The  
7 Division shall increase the minimum size requirement for any increase in the maximum annual application rate or if  
8 it is demonstrated during site operation that this volume is inadequate or if specific site considerations would warrant  
9 such increases. ~~[increases; and]~~ The Division shall notify the owner or operator of the facility of the increase. ~~the~~  
10 ~~average volume of septage pumped per week.~~ This Paragraph does not limit the maximum capacity of a septage  
11 detention facility. Capacity shall be increased if it is demonstrated during site operation that this volume is inadequate  
12 or if specific site considerations would warrant such increases.

13 (b) Each site shall have an all weather access road. ~~Septage detention facilities for sites permitted to land apply in~~  
14 ~~excess of 50,000 gallons per acre per year shall have a minimum size equal to two percent of the maximum annual~~  
15 ~~application rate. Facilities permitted as of the effective date of this rule shall have 12 months to meet this requirement.~~

16 (c) Septage treatment and detention facility containers shall be structurally sound and constructed of steel, concrete,  
17 plastic, or fiberglass. ~~fiberglass; and shall be free of evidence of damage or weakness such as holes or cracks that may~~  
18 allow the escape of septage.

19 If required by G.S. 89C, plans and specifications for proposed containers constructed of materials not specifically  
20 addressed in this Rule shall be prepared by a professional engineer. [Note: The North Carolina Board of Examiners  
21 for Engineers and Surveyors, has determined, via letter and resolution dated March 7, 11, 2010, that certification of  
22 documents pursuant to this Paragraph constitutes practicing engineering, under G.S. 89C.]

23 (d) A septage ~~treatment and detention facility~~ Treatment and Detention Facility permit holder and operator ~~are~~ shall  
24 be responsible for the actions of any septage management firm that uses the detention or treatment facility.

25 (e) Each detention and treatment facility shall be designed, constructed, and maintained ~~in such a manner as to:~~

- 26 (1) ~~Prevent prevent~~ leaks or the flow of septage out of the facility into the seasonally high water table,  
27 onto the ground surface, or into any surface waters;  
28 (2) ~~Minimize minimize~~ the attraction or admittance of vectors; and  
29 (3) ~~Prevent prevent~~ unauthorized entry into septage containers or lagoons.

30 (f) Septage detention and treatment facilities located below grade shall:

- 31 (1) If [if] required by G.S. 89C, a professional engineer shall certify that the construction was completed  
32 be constructed in substantial compliance with the plans and specifications prior to any waste being  
33 introduced into the system. If required by G.S. 89C, a professional engineer shall certify this  
34 compliance. [Note: The North Carolina Board of Examiners for Engineers and Surveyors, has  
35 determined, via letter and resolution dated March 11, 2010, that certification of documents pursuant  
36 to this Paragraph constitutes practicing engineering, under G.S. 89C.];  
37 (2) ~~Be~~ be constructed to a traffic rated standard or protected from vehicular traffic; and

- (3) ~~Not~~ not be constructed of used metal tanks. Used metal tanks are allowed to may be located beside a wall or embankment for gravity access as long as the entirety of the tank is visible.
- (g) The permit holder of a septage treatment or detention facility shall ~~control~~ minimize odors from the facility at the property boundary.
- (h) ~~Ground water~~ The Division may require that groundwater monitoring wells or a leak detection system ~~may be required be installed~~ around treatment or detention systems if necessary to assure for protection of public health and the ~~environment.~~ environment if there is evidence of a leaking tank.
- (i) The area around tanks shall be free of debris and vegetation to allow for access and inspection for a distance of ~~at least~~ 5 feet.
- (j) Septage shall be transferred to and from a detention system in a safe and sanitary manner that prevents leaks or spills of septage, septage onto the ground surface or exterior surface of the detention system, including septage in pipes used for transferring waste to and from vehicles.
- (k) Access roads or paths crossing or leading to the facility shall be posted with "NO TRESPASSING" signs.
- (l) Requirements for lined lagoons:
- (1) Lined lagoons shall be permitted only at sites where the construction and use of a lagoon shall does not jeopardize the public health or environment.
  - (2) Portions of lined lagoons may be located below grade shall be in accordance with Subparagraph (f)(1) of this Rule. in substantial compliance with the plans and specifications prior to any waste being introduced into the system. If required by G.S. 89C, a professional engineer shall certify this compliance. [Note: The North Carolina Board of Examiners for Engineers and Surveyors, has determined, via letter and resolution dated March 11, 2010, that certification of documents pursuant to this Paragraph constitutes practicing engineering, under G.S. 89C.];
  - (3) Only lagoons designed, constructed and inspected in accordance with accepted engineering principles providing for the protection of the underlying groundwater will be considered for use in a septage treatment or detention system. If required by G.S. 89C, a professional engineer shall certify that the construction was completed in substantial compliance with the plans and specifications prior to any waste being introduced into the system. [Note: The North Carolina Board of Examiners for Engineers and Surveyors, has determined, via letter and resolution dated March 11, 2010, that certification of documents pursuant to this Paragraph constitutes practicing engineering under G.S. 89C.]
  - (4) Liners shall be a minimum of 12 inches of clay compacted to a maximum permeability of  $10^{-7}$  cm/sec or equivalent synthetic liner.
  - (5) Synthetic liners shall have a minimum thickness of 30 mils. A synthetic liner shall have a demonstrated water vapor transmission rate of not more than 0.03 gm/m<sup>2</sup>/day. Liner material and any seaming materials shall have chemical and physical resistance not adversely affected by environmental exposure or waste placement.

- (6) Clay liners with a permeability more than  $10^{-7}$  cm/sec may be used in conjunction with a synthetic liner to meet the maximum permeability of  $10^{-7}$  cm/sec or equivalent.
- (7) The surface of the supporting soil on which the liner will be installed shall be ~~reasonably~~ free of stones, organic matter, protrusions, loose soil, and any abrupt changes in grade that could affect the integrity of the liner.
- (8) Lagoons shall be designed and maintained to have adequate storage to handle the additional water from a 25-year storm.
- (9) Lagoons shall be protected from entry by unauthorized individuals by fencing or other ~~appropriate~~ means.
- (m) Septage detention and treatment facilities shall adhere to the following minimum setback requirements:
- (1) ~~Residence, residence,~~ place of business, ~~except septage firm business,~~ or place of public assembly – 100 feet;
  - (2) ~~Well~~ well or water supply spring – 100 feet;
  - (3) ~~Surface~~ surface waters – 100 feet;
  - (4) ~~Property~~ property lines – 50 feet;
  - (5) ~~Facilities~~ facilities permitted after ~~April 1, 2010 the effective date of this Rule~~ shall not be located in the 100-year flood plain hazard ~~area; area;~~
  - (6) ~~Soil~~ soil wetness, as determined in ~~Part (a)(3)(A) of Rule .0837 .0837(a)(3)(A) of this Section~~ – 12 inches;
  - (7) ~~Setbacks~~ setbacks in Subparagraphs (1) and (4) of this Paragraph may be in accordance with local zoning ordinances if located in areas zoned for industrial ~~use; use;~~
  - (8) ~~Setbacks~~ setbacks in Subparagraphs (1) through (4) ~~of this Paragraph~~ shall be increased 100% for lagoons; and
  - (9) ~~Accurate~~ accurate property line location ~~is~~ shall be the responsibility of the site operator.
- (n) ~~All setbacks shall be maintained. At the time of initial permitting, septage detention and treatment facilities shall observe the minimum setback distances specified in this Rule. Minimum setbacks shall be maintained throughout the life of the facility only on land owned, operated, or controlled by the permittee or by the landowner(s) at the time of initial permitting. Any sale, lease, or other conveyance of land by the permittee, or by the landowner(s) if different from the permittee, subsequent to the initial permitting of the facility shall include restrictions to ensure continued maintenance of the setbacks.~~
- (o) The setbacks in Subparagraph (m)(1) through (4) of this Rule shall be increased for storage facilities with a capacity in excess of 25,000 gallons permitted after ~~April 1, 2010 the effective date of this Rule~~ to prevent offsite contamination from major spills, or 100% containment shall be provided. Increased setbacks shall be ~~up to~~ twice the minimum distance as indicated in Subparagraph (m)(1) through (4) of this ~~Rule. Rule, unless the permitted~~ Permitted volume and the proximity to residences, wells or water supply springs, surface waters, ~~and or~~ property lines ~~dictate a reduced setback determined by the Division on a case-by-case basis. will determine the setback.~~
- (p) Storage containers for individual restaurants shall be:

- 1 (1) ~~Located~~ located above grade and protected from vehicular traffic;
  - 2 (2) ~~Maintained~~ kept free of grease on the exterior surface of the container and the ground surface,  
3 maintained to be impervious to flies, and shall not attract vectors; [flies] fly tight and in a sanitary  
4 condition;
  - 5 (3) ~~Placed~~ placed at a location and acceptable to ~~standards~~ and determined by the local health  
6 department and the NC Department of Health and Human Services; NC Division of Environmental  
7 Health; and
  - 8 (4) ~~No~~ no greater than 200 gallons in size.
- 9 (q) Setbacks for detention tanks at marinas may be reduced for storage capacity of 2000 gallons or less when the  
10 facility is designed to prevent leaks or spills or has containment equaling 100% of the storage volume plus rainfall  
11 from a 25-year storm event. Setbacks shall in no case be less than what is approved by applicable local government,  
12 ~~state~~ State, or federal laws or rules.
- 13 (r) Permit holders of all septage detention and treatment facilities shall have all records required in accordance with  
14 this Section available for review during inspections by the Division or upon the Division's request. Septage shall not  
15 be stored in a detention or treatment facility for more than six months.
- 16 (s) Septage shall not be stored or treated at a new septage treatment or detention facility until a representative of the  
17 Division has inspected the facility to determine compliance with these Rules and consistency with the permit  
18 application and all permit conditions.
- 19 (t) Septage detention and treatment facility closure shall include:
- 20 (1) a written notification of cease of operations submitted to the Division that shall include the permit  
21 number, the date of cease of operations, and the signature of the operator; A completed ceased  
22 operation form submitted to the Division;
  - 23 (2) ~~All~~ all liquids and solids, resulting from septage detention or treatment, removed from all portions  
24 of the facility and ~~properly~~ managed or disposed at an ~~appropriate~~, approved facility; and
  - 25 (3) ~~All~~ all parts of the facility removed from property under separate ownership, unless all landowners  
26 provide the Division with written documentation that the facility may remain at the site.
- 27 (u) Record keeping for detention facilities that receive septage from more than one septage management firm shall  
28 include:
- 29 (1) ~~The~~ the date that the septage is received at and removed from the facility;
  - 30 (2) ~~Name~~ name of the septage management firm that delivered the septage;
  - 31 (3) ~~Type~~ type and amount, in gallons, of septage received; and
  - 32 (4) ~~Where~~ where septage is discharged.
- 33 (v) Record keeping for treatment facilities shall include:
- 34 (1) ~~Date~~ date septage is received at the facility;
  - 35 (2) ~~Name~~ name of the septage management firm that delivered the septage;
  - 36 (3) ~~Type~~ type and amount, in gallons, of septage received;
  - 37 (4) ~~Date~~ date processed material(s) is removed from the facility;



- 1           (5)    ~~Type~~ type and amount, in tons or gallons, of material removed from the facility; and
- 2           (6)    ~~Management~~ management methods for each type of material removed by the ~~facility.~~ facility
- 3   (w) Alarms shall be required to detect high liquid levels, leaks and spills, or system operation parameters at detention
- 4   or treatment facilities when the location, design, capacity, or operational complexities of the facility warrant the
- 5   additional safety precautions.

6

7   *History Note:*    *Authority G.S. 130A-291.1;*

8                       *Eff. April 1, 2010.*

9                       *Readopted Eff. January/February 1, 2019.*

1 15A NCAC 13B .0843 is readopted with changes as published in 33:04 NCR 404 as follows:

2  
3 **15A NCAC 13B .0843    LAND APPLICATION SITE LAND USE AND SITE CLOSURE**

4 (a) ~~Adherence~~ Upon closure of a land application site permitted in accordance with this Section, the site shall meet  
5 the site restriction requirements set forth in 40 CFR 503.32(c)(1). ~~to the site restrictions in 40 CFR [503.32]~~ 503.32(e)  
6 ~~of Subpart D shall be required.~~

7 (b) Nursery and horticultural products, trees and other forest products, ~~including but not limited to~~ such as pine straw  
8 and pine bark, shall not be harvested or gathered for 30 days after septage application.

9 (c) Public access is to be controlled in accordance with 40 CFR 503.32(c)(1). ~~[503.32.]~~ 40 CFR 503.32(e) of Subpart  
10 ~~D.~~

11 (d) The permit holder or operator of the site shall submit a written notification to ~~notify~~ the Division at least 30 days  
12 prior to final closure of a septage land application site in order to schedule a site inspection for determination of  
13 compliance with this Section. The notification shall include the permit number, the date of cease of operations, and  
14 the signature of the operator.

15 (e) Prior to final closure, the soil pH of the site shall be raised to 6.5, unless the fertility requirements for crops to be  
16 grown in the following year dictate less.

17  
18 *History Note:*     *Authority G.S. 130A-291.1;*

19 *Eff. October 1, 2009. 2009.*

20 *Readopted Eff. JanuaryFebruary 1, 2019.*

1 15A NCAC 13B .0844 is readopted with changes as published in 33:04 NCR 404 as follows:

2  
3 **15A NCAC 13B .0844 TRANSPORTATION OF SEPTAGE**

4 (a) ~~Vehicles used for the transportation of septage shall be operated and maintained to prevent~~ All septage shall be  
5 ~~transported in a safe, sanitary manner that prevents~~ leaks and spills of septage and shall comply with the following:

6 (1) ~~All~~ all tanks shall be constructed of metal and ~~permanently attached~~ affixed to the truck bed with  
7 permanent fixtures such as bolts; ~~bed, unless otherwise approved by the Division;~~

8 (2) ~~All~~ all valves shall be in ~~proper~~ working order and be ~~completely~~ closed during transportation;

9 (3) ~~All~~ all access ports shall have ~~proper fitting~~ lids in good repair in accordance with manufacturer  
10 specifications and ~~be completely closed~~ sealed during transportation;

11 (4) ~~Portable~~ portable toilet pump units that slide into pickup truck beds shall be bolted to the trucks in  
12 accordance with manufacturer specifications;

13 (5) ~~Boats~~ boats used to pump or transport septage shall be United States Coast Guard approved or  
14 ~~engineered~~ construction plans shall be available indicating that the specific craft is stable in the  
15 water when fully ~~loaded;~~ loaded with septage, and if required by G.S. 89C, a professional engineer  
16 shall prepare these documents; and

17 (6) ~~Tanks~~ tanks that are mounted on trailers for the pumping or transportation of septage shall meet all  
18 applicable ~~state~~ State and federal requirements for highway use.

19 (b) All permitted septage management firms shall display ~~decals or~~ lettering on each side of every pumper vehicle  
20 operated by the firm. The ~~decals or~~ lettering shall include the firm name, ~~address (town name),~~ town name, phone  
21 number, and septage management firm permit ~~number.~~ number as shown on the firm application. All ~~decals or~~ lettering  
22 required by this Rule on the pumper vehicle shall be no less than three inches in height and plainly [clearly legible]  
23 legible, distinguishable from the background, and ~~visible.~~ not obstructed from view. Identification shall not be  
24 removable (i.e. no magnetic signs). ~~be permanently attached (i.e., no removable signs).~~

25 (c) Applicants for septage management firm permits ~~which that~~ were not permitted in the previous calendar year shall  
26 have each pump truck inspected prior to the Division's issuance of a permit.

27 (d) Septage to be discharged at a wastewater treatment plant or any part of the collection system for that plant shall  
28 be handled in accordance with the plant rules and policies.

29 (e) All vehicles used in the transportation of septage, including spare vehicles and tankers, shall meet the requirements  
30 of this Section ~~section~~ and be included in the permit application.

31 (f) Vehicles used in the transportation of septage, that are listed on an approved septage management firm permit  
32 application, may remain loaded or partially loaded on land owned by the septage management firm for up to seven  
33 days without obtaining a permit for a detention or treatment facility. Such vehicles shall comply with ~~all parts of~~ this  
34 Rule.

35  
36 *History Note:* Authority G.S. 130A-291.1;

37 *Eff. October 1, 2009; 2009;*

Readopted Eff. ~~January~~ February 1, 2019.



STATE OF NORTH CAROLINA  
OFFICE OF ADMINISTRATIVE HEARINGS

Mailing address:  
6714 Mail Service Center  
Raleigh, NC 27699-6700

Street address:  
1711 New Hope Church Rd  
Raleigh, NC 27609-6285

December 13, 2018

Jennifer Everett, Rulemaking Coordinator  
Department of Public Safety  
**Sent via email to [jennifer.everett@ncdenr.gov](mailto:jennifer.everett@ncdenr.gov)**

Re: Extension of the Period of Review for Rules 15A NCAC 13B .0830-.0846

Dear Ms. Everett:

At its meeting today, the Rules Review Commission extended the period of review for the above-captioned rules in accordance with G.S. 150B-21.10. They did so in response to a request from the agency to extend the period in order to allow the agency to address requests for technical changes and submit the rewritten rules at a later meeting.

Pursuant to G.S. 150B-21.13, when the Commission extends the period of review, it is required to approve or object to rules or call a public hearing on the same within 70 days.

If you have any questions regarding the Commission's actions, please let me know.

Sincerely,

Amber C. May  
Commission Counsel

Administration  
919/431-3000  
fax: 919/431-3100

Rules Division  
919/431-3000  
fax: 919/431-3104

Judges and  
Assistants  
919/431-3000  
fax: 919/431-3100

Clerk's Office  
919/431-3000  
fax: 919/431-3100

Rules Review  
Commission  
919/431-3000  
fax: 919/431-3104

Civil Rights  
Division  
919/431-3036  
fax: 919/431-3103

## Burgos, Alexander N

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**Subject:** FW: Technical Change Requests

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**From:** Montie, Jessica

**Sent:** Thursday, December 6, 2018 4:49 PM

**To:** May, Amber Cronk <amber.may@oah.nc.gov>

**Cc:** Burgos, Alexander N <alexander.burgos@oah.nc.gov>; Everett, Jennifer <jennifer.everett@ncdenr.gov>

**Subject:** RE: Technical Change Requests

Good afternoon,

Staff with DEQ would like to request an extension for the period of review regarding the technical change requests for EMC Rules 15A NCAC 13B Section .0800 Septage Management. We expect to have addressed the technical changes required and provide the rewritten rules to be considered at the January Rules Review Commission meeting.

Thank you for your review and assistance with these rules.



Jessica Montie

*Environmental Program Consultant*

*Division of Waste Management*

North Carolina Department of Environmental Quality

919.707.8247 (Office)

Jessica.Montie@ncdenr.gov

*Email correspondence to and from this address is subject to the  
North Carolina Public Records Law and may be disclosed to third parties.*

REQUEST FOR TECHNICAL CHANGE

AGENCY: Environmental Management Commission

RULE CITATION: 15A NCAC 13B .0830

**DEADLINE FOR RECEIPT: Friday, December 7, 2018**

**PLEASE NOTE: This request may extend to several pages. Please be sure you have reached the end of the document.**

*In (b), please provide the cost of the materials and where they can be found.*

Please retype the rule accordingly and resubmit it to our office at 1711 New Hope Church Road, Raleigh, North Carolina 27609.

Amber May  
Commission Counsel  
Date submitted to agency: November 28, 2018

1 15A NCAC 13B .0830 is amended as published in 33:04 NCR 404 as follows:

2  
3 **15A NCAC 13B .0830 INCORPORATION BY REFERENCE**

4 (a) All Sections of the Code of Federal Regulations (CFR) cited in this Section are hereby incorporated by reference,  
5 including subsequent amendments or ~~additions.~~ additions, and may be obtained free of charge at  
6 <https://www.gpo.gov/fdsys/>.

7 (b) ~~Copies of Federal statutes,~~ US Environmental Protection Agency (EPA) and American Society for Testing  
8 Materials (ASTM) test methods and procedures, and other published standards referenced in this Section are hereby  
9 incorporated by reference, including subsequent amendments or additions.

10 (c) Copies of all material incorporated by reference are available for inspection at the Department of Environmental  
11 Quality Environment and Natural Resources, Division of Waste Management, Solid Waste Section, 217 West Jones  
12 Street, Raleigh, N.C. 27603 or the Division's website at <https://deq.nc.gov/about/divisions/waste-management>. ~~404~~  
13 ~~Oberlin Road, Raleigh, N.C. 27699 1646.~~

14 (d) ~~Material incorporated by reference in the Federal Register may be obtained at Government Institutes, 15200 NBN~~  
15 ~~Way, Blue Ridge Summit, PA 17214 at a cost of one thousand five hundred sixty seven dollars and fifty cents~~  
16 ~~(\$1,567.50). Federal Register materials are codified once a year and may be obtained at the above address for a cost~~  
17 ~~of: 40 CFR 190 259 thirty nine dollars and seventy five cents (\$39.75), 40 CFR 425 699 sixty dollars and seventy~~  
18 ~~five cents (\$60.75) or at <http://www.gpoaccess.gov/cfr>.~~

19  
20 *History Note: Authority G.S. 130A-291.1;*

21 *Eff. October 1, 2009;*

22 *Pursuant to G.S. 150B-21.3A, rule is necessary without substantive public interest Eff. June 24,*  
23 *~~2017.~~ 2017:*

24 *Amended Eff. January 1, 2019.*  
25



## REQUEST FOR TECHNICAL CHANGE

AGENCY: Environmental Management Commission

RULE CITATION: 15A NCAC 13B .0831

**DEADLINE FOR RECEIPT: Friday, December 7, 2018**

**PLEASE NOTE:** *This request may extend to several pages. Please be sure you have reached the end of the document.*

*In Item (12), how is it determined what a “year with normal rainfall” is? Please provide some additional information.*

*Given that you have already included all definitions in 130A-290 on line 4, please delete Item (13) as it is already defined in 130A-290(32).*

*The punctuation in Item (16) is inconsistent – I have made suggested changed below to make the punctuation consistent.*

*In (16)(a), please change the semi-colon after “more of sand” to a comma.*

*I’m not sure that I understand what is going on in (16)(b). The use of “the upper limit” and “the lower limit” while giving ranges doesn’t make a lot of sense to me (you have the “upper limit” as 71-91 percent and “the lower limit” as 70-85. Do you mean the upper limit to be 86-91? Please consider the following for purposes of clarity:*

- (b) "Loamy sand" means soil material that contains ~~either:~~ at the upper limit
  - (i) 70 to 91 percent sand, and the percentage silt plus 1.5 times the percentage of clay is not less than 15; ~~or~~ at the lower limit contains not less than
  - (ii) 70 to 85 percent sand, and the percentage of silt plus twice the percentage of clay is less than 30;

*Please consider breaking (c) and (e) out similar to what I have suggested in (b).*

*In (g), delete the “and” in between “clay” and “less than” and add a comma after “clay.”*

*In (h), should “more than” before “20 to 46” be “between”? “more than” doesn’t make sense with a range.*

*In (l), please remove the comma after “less sand”*

Please retype the rule accordingly and resubmit it to our office at 1711 New Hope Church Road, Raleigh, North Carolina 27609.

Amber May  
Commission Counsel  
Date submitted to agency: November 28, 2018

1 15A NCAC 13B .0831 is readopted as published in 33:04 NCR 404 as follows:

2  
3 **15A NCAC 13B .0831 DEFINITIONS**

4 In addition to the terms defined in G.S. 130A-290, as used in this Section the following terms are defined as follows:  
5 ~~have the following meanings:~~

- 6 (1) "Agronomic rates" ~~are defined as~~ means those rates that provide the nitrogen and other nutrient  
7 needs of the crop based on available realistic yield expectations (RYE) established for a soil series  
8 through published Cooperative Extension Service bulletins, Natural Resources Conservation  
9 Service ~~publications~~ publications, or county soil surveys, but do not overload the soil with nutrients  
10 or other constituents ~~which that~~ may eventually leach to groundwater, limit crop growth, or degrade  
11 ~~adversely impact~~ soil quality.
- 12 (2) "Annual septage application rate" means the maximum amount, in gallons, of septage that ~~can~~ may  
13 be applied to a unit area of land during a 365-day period.
- 14 (3) ~~"CFR" means Code of Federal Regulations.~~
- 15 (4) ~~"Department" means Department as defined in G.S. 143-212.~~
- 16 (5) ~~"Division" means the Division of Waste Management in the Department. All rules cited in this~~  
17 ~~Section, under the authority of the Division, may be obtained at 401 Oberlin Road, Raleigh, North~~  
18 ~~Carolina 27604, or at the Division's web page at [www.wastenotne.org](http://www.wastenotne.org).~~
- 19 (6)(3) "Land application" ~~shall mean~~ means the spraying or spreading of septage onto the land surface; the  
20 injection of septage below the land surface; or the incorporation of septage into the soil so that the  
21 septage ~~can condition~~ conditions the soil or ~~fertilize~~ fertilizes crops or vegetation grown in the soil.
- 22 (7)(4) "Licensed Geologist" means licensed geologist as defined in G.S. 89E-3. ~~an individual who is~~  
23 ~~licensed to practice geology in accordance with G.S. 89E.~~
- 24 (5) "Licensed Soil Scientist" means licensed soil scientist as defined in G.S. 89F-3.
- 25 (8)(6) "Nutrient Management Plan" means a plan to define the management requirements and nutrient  
26 needs of crops to be grown on a septage land application site, including the amount, sources,  
27 ~~placement~~ placement, and timing of nutrient applications to maximize the nutrient uptake of the  
28 crop. Plan implementation shall protect the environment and maintain crop productivity.
- 29 (9)(7) "Place of business" means place of business as defined in G.S. 130A-334. ~~any store, warehouse,~~  
30 ~~manufacturing establishment, place of amusement or recreation, service station, food handling~~  
31 ~~establishment, office, or any other place where people work or are served.~~
- 32 (10)(8) "Place of public assembly" means place of public assembly as defined in G.S. 130A-334. ~~any~~  
33 ~~fairground, auditorium, stadium, church, campground, theater, school, or any other place where~~  
34 ~~people gather or congregate.~~
- 35 (11)(9) "Professional Engineer" means professional engineer as defined in G.S. 89C-3. ~~an individual who~~  
36 ~~is licensed to practice engineering in accordance with G.S. 89C.~~

- (12)(10) "Residence" means residence as defined in G.S. 130A-334. ~~any habitable home, hotel, motel, summer camp, labor work camp, mobile home, dwelling unit in a multiple family structure, or any other place where people reside.~~
- (13)(11) "Rock" means the consolidated or partially consolidated mineral matter or aggregate, including bedrock or weathered rock, not exhibiting the properties of soil.
- (14)(12) "Seasonal High Water Table" or "SHWT" ~~is~~ means the highest level of the saturated zone in the soil during a year with normal rainfall. to which the soil is saturated, as SHWT may be determined in the field through identification of redoximorphic features in the soil profile, monitoring of the water table elevation, or modeling of predicted groundwater elevations. profile including low chroma mottling. This does not include temporary perched conditions. Alternatively, the SHWT can also be determined from water level measurements or via soil/groundwater modeling.
- (15)(13) "Septage" means septage as defined in G.S. 130A-290(a)(32). ~~130A-290(a)(32) and also shall include washings from the interior of septage handling containers, including pumper trucks.~~
- (16)(14) "Septage Management Facility" means land, personnel, and equipment used in the management of septage, including ~~but not limited to,~~ septage management firms as defined in G.S. 130A-290(a)(33), septage detention and treatment facilities, and septage land application sites.
- (17)(15) "Soil" means the unconsolidated mineral and organic material of the land surface. It consists of sand, silt, and clay minerals and variable amounts of organic materials.
- (18) "Soil Scientist" ~~means an individual who is licensed to practice soil science in accordance with G.S. 89F.~~
- (19)(16) "Soil textural classes" means soil classification based upon size distribution of mineral particles in the fine-earth fraction less than two millimeters in diameter. The fine-earth fraction includes sand (2.0 – 0.05 mm in size), silt (0.05 mm – 0.002 mm), and clay (less than 0.002 mm in size) particles. The specific textural classes ~~are~~ shall be defined as follows:
- (a) "Sand" means soil material that contains 85 percent or more of sand; the percentage of silt plus 1.5 times the percentage of clay less than 15;
  - (b) "Loamy sand" means soil material that contains at the upper limit 70 to 91 percent sand, and the percentage silt plus 1.5 times the percentage of clay is not less than 15; at the lower limit contains not less than 70 to 85 percent sand, and the percentage of silt plus twice the percentage of clay is less than 30;
  - (c) "Sandy loam" means soil material that contains 7 to 20 percent clay, and the percentage of silt plus twice the percentage of clay exceeds 30, and contains 52 percent or more sand; or less than 7 percent clay, less than 50 percent silt, and more than 43 percent sand;
  - (d) "Loam" means soil material that contains 7 to 27 percent clay, 28 to 50 percent silt, and 52 percent or less sand;
  - (e) "Silt loam" means soil material that contains 50 percent or more silt and 12 to 27 percent clay; or contains 50 to 80 percent silt and less than 12 percent clay;

- (f) "Silt" means soil material that contains 80 percent or more silt and less than 12 percent clay;
- (g) "Sandy clay loam" means soil material that contains 20 to 35 percent clay and less than 28 percent silt, and more than 45 percent sand;
- (h) "Clay loam" means soil material that contains 27 to 40 percent clay and more than 20 to 46 percent sand;
- (i) "Silty clay loam" means solid material that contains 27 to 40 percent clay and 20 percent or less sand;
- (j) "Sandy clay" means soil material that contains 35 percent or more clay and 45 percent or more sand;
- (k) "Silty clay" means soil material that contains 40 percent or more clay and 40 percent or more silt; and
- (l) "Clay" means soil material that contains 45 percent or less sand, and less than 40 percent silt.

~~(20) "Technical specialist" means an individual designated by the Soil and Water Conservation Commission, pursuant to rules adopted by that Commission, to certify animal waste management plans.~~

~~(21)~~(17) "Treatment of septage" means the preparation of septage for final use or disposal. Treatment may ~~include~~ includes, but is not limited to, thickening, stabilization, and dewatering of septage. Treatment ~~does~~ shall not include storage of septage.

Definitions in 40 CFR 503.9(d), (g), (h), (j), (k), (l), (r), (t), (u), (v), (w), (bb), and in 40 CFR 503.11(a), ~~(b)~~, (c), (d), (f), (g), ~~(h), (i), (j)~~, (k), (l), (m), (n) are incorporated by reference including subsequent amendments and editions. Copies of the Code of Federal Regulations may be obtained from the Solid Waste Section at no cost.

*History Note: Authority G.S. 130A-291.1;*  
*Eff. October 1, 2009; 2009;*  
*Readopted Eff. January 1, 2019.*

## REQUEST FOR TECHNICAL CHANGE

AGENCY: Environmental Management Commission

RULE CITATION: 15A NCAC 13B .0832

**DEADLINE FOR RECEIPT: Friday, December 7, 2018**

**PLEASE NOTE: This request may extend to several pages. Please be sure you have reached the end of the document.**

*Are (a)(2) and (3) necessary given that 130A-291.1(c) says that “no septage management firm shall commence or continue operation that does not have a permit issued by the Department” and 130A-290(a) (33) defines this firm as “a person engaged in the business of pumping, transporting, storing, treating or disposing septage.” The statute seems extremely broad, so I’m not sure that I understand the intent of (a)(2) and (3).*

*Given that 130A-295.3(c) gives the factors to use in denying a permit, is (a)(4) necessary? This doesn’t seem to add anything.*

*In (a)(5), I understand that 130A-294(b2)(2) gives you authority to issue a permit upon “substantial compliance.” How will it be determined whether you all will require a demonstration of substantial compliance? What is the overall intent of (a)(5)? Is this intended to allow for you all to request some additional information? Is it necessary given 130A-294(b2)(2)?*

*In (a)(7), what is meant by “a qualified environmental professional”? .0202(a)(3) speaks to a professional engineer and a licensed geologist. Please be consistent with language used elsewhere in your Rules.*

*In (a)(8), how will it be determined how long a permit will initially be issued? Does this go to .0833(i)? My question here is related to “a maximum.” Also, how will it be determined whether and for how long a subsequent permit will be valid? I assume that it will be renewed upon application and a showing that the permittee is in compliance with all applicable laws. Here, my question is related to “may” and “up to.” Also, how does the allowance for a five year permit go with the requirement that information is submitted annually in .0833?*

*In (b)(1), what is meant by “illegal land application”? Do you simply mean that “The storage tank at a mobile or modular office shall not leak or overflow”?*

*In (b)(1), what is your authority to determine that “the office occupant or owner... shall be considered the responsible party”? 130A-291.2 speaks to the “owner or lessee...” I’m thinking that by “office occupant”, you mean “lessee”? If so, please be consistent in your terminology.*

*In (b)(2), I assume that the intent here is to get to individuals who are providing the portable toilets; however, I read this to also include those who wish to rent the*

Amber May  
Commission Counsel  
Date submitted to agency: November 28, 2018

*portable toilets. So, I read this to say that I can't rent a portable toilet unless I am permitted to operate a septage management firm. Is this the intent?*

*Given 130A-291.2, is (c) necessary?*

*In (c)(2), what is considered to be "regular basis"?*

*In (d)(1), just so I understand how everything goes together, is the "wastewater system permitting authority" CPH?*

*In (d)(4) and (5), there is no need to incorporate the test method twice. Once is fine (especially when they are this close together.)*

*In (e), given 130A-291.3(d), I assume that the approval process for this training is set forth elsewhere in rule?*

Please retype the rule accordingly and resubmit it to our office at 1711 New Hope Church Road, Raleigh, North Carolina 27609.

Amber May  
Commission Counsel  
Date submitted to agency: November 28, 2018

1 15A NCAC 13B .0832 is readopted as published in 33:04 NCR 404 as follows:

2  
3 **15A NCAC 13B .0832 GENERAL PROVISIONS**

4 (a) General permitting requirements.

- 5 (1) No person shall manage septage, or any part of septage, or operate a Septage Management Firm  
6 without first obtaining a permit from the Division as required under G.S. 130A-291.1(c);
- 7 (2) The permit requirement of G.S. 130A-291.1(c) applies to persons who remove septage, and other  
8 waste materials or spent media from wastewater systems permitted by the Department of Health and  
9 Human Services, Division of Environmental Health, under the authority of Article 11, Chapter 130A  
10 of the North Carolina General Statutes;
- 11 (3) The permit requirement of G.S. 130A-291.1(c) applies to persons who manage septage generated  
12 from properties ~~which~~ that they own, ~~lease~~ lease, or manage as part of a business, including ~~but not~~  
13 ~~limited to~~ mobile homes, mobile home parks, restaurants, and other residential and commercial  
14 property;
- 15 (4) The Division may deny a permit ~~application~~, application in accordance with G.S. 130A-295.3(c);
- 16 (5) The Division may require an applicant to demonstrate substantial compliance in accordance with  
17 G.S. 130A-294(b2)(2);
- 18 (6) ~~All conditions for permits~~ Permits issued in accordance with this Section shall be followed;
- 19 (7) Where specified in this Section, permit applications or specific portions of applications shall be  
20 prepared by a qualified environmental professional in accordance with Rule .0202(a)(3) of this  
21 Subchapter; and
- 22 (8) Initial septage land application site and detention and treatment facility permits shall be ~~issued~~ valid  
23 for a maximum of one year. Subsequent permits may be valid for up to five years. Renewal permits  
24 ~~shall be issued for five years if the facility has not had a major violation and records have been~~  
25 ~~maintained in accordance with this Section.~~

26 (b) Portable sanitation permitting provisions.

- 27 (1) A mobile or modular office that meets the criteria of G.S. 130A-291.2 shall be considered a chemical  
28 or portable toilet as defined in G.S. 130A-290(a)(1c). Leaks or overflows of the storage tank at a  
29 mobile or modular office shall be considered illegal land application. The office occupant and owner  
30 of the mobile or modular office shall be considered to be the responsible party and shall ~~will~~ be  
31 subject to the requirements of Paragraph (a) of this Rule.
- 32 (2) No person shall rent or lease portable toilet(s) or contract or subcontract to rent or lease portable  
33 toilet(s) or manage or dispose of waste from portable toilet(s), regardless of ownership of the  
34 toilet(s) unless that person is permitted to operate a septage management firm.
- 35 (3) Placement of a chemical or portable toilet as defined in G.S. 130A-290(a)(1c) for potential use in  
36 North Carolina shall be considered operation of a septage management firm ~~which~~ that requires a  
37 permit.

1 (c) Recreational vehicle waste provisions.

- 2 (1) Domestic septage from a recreational vehicle shall be managed in accordance with this Section or  
3 shall flow directly into a wastewater treatment system permitted by the Department of  
4 Environmental Quality. ~~Environment and Natural Resources~~.
- 5 (2) Wastewater from recreational vehicles that are tied down, blocked up, or that are not relocated on a  
6 regular basis, and that are not connected to an approved wastewater system shall be managed in  
7 accordance with Article 11, Chapter 130A of the NC General Statutes.
- 8 (3) Recreational vehicle dump stations that do not discharge directly to a wastewater treatment system  
9 permitted by the Department of Environmental Quality ~~Environment and Natural Resources~~ shall  
10 be permitted as a septage detention and treatment facility in accordance with Rule .0836 of this  
11 Section.

12 (d) Alternate septage management method limitations.

- 13 (1) Grease septage, or any part of grease septage, shall not be introduced or reintroduced into a grease  
14 trap, interceptor, separator, or other appurtenance used for the purpose of removing cooking oils,  
15 fats, grease, and food debris from the waste flow generated from food handling, preparation, and  
16 cleanup unless the Division has received written approval from the wastewater treatment plant  
17 operator or the onsite wastewater system permitting authority that reintroduction is acceptable.
- 18 (2) Septage, or any part of septage, shall not be reintroduced into an onsite wastewater system unless  
19 approved pursuant to G.S. 130A-343(c).
- 20 (3) Septage, or any part of septage, shall not be placed in containers at restaurants designated for yellow  
21 grease.
- 22 (4) Septage, or any part of septage, shall not be disposed of in a municipal solid waste landfill unless  
23 the waste passes the ~~paint filter test~~ Paint Filter Liquids Test as defined by EPA S.W. 846 Test  
24 Method 9095B which can be accessed at no cost at <https://www.epa.gov/hw-sw846>, and the landfill  
25 receiving the waste has provided the Division written documentation that the specific material will  
26 be accepted.
- 27 (5) Septage, or any part of septage, shall not be disposed of in a dumpster unless the waste passes the  
28 Paint Filter Liquids Test as defined by EPA S.W. 846 Test Method 9095B which can be accessed  
29 at no cost at ~~<http://www.epa.gov/osw/hazard/testmethods/sw846/online/index.htm>~~,  
30 <https://www.epa.gov/hw-26-sw846>, and the landfill receiving the waste is a ~~properly~~ permitted  
31 municipal solid waste landfill, in accordance with Section .1600 of this Subchapter. ~~Subchapter, and~~  
32 ~~the landfill operator has provided the Division written documentation that the specific material will~~  
33 ~~be accepted.~~
- 34 (6) Septage, or any part of septage, managed through subsurface disposal shall be considered a  
35 treatment facility and shall require a permit in accordance with this Section and G.S. 130A-343.
- 36 (7) Facilities receiving septage, or any part of septage, for composting shall be permitted in accordance  
37 with Section .1400 of this Subchapter.



1 (e) All ~~training~~, training to meet the requirements of G.S. 130A-291.3(a) and ~~(b), must (b) shall~~ be pre-approved by  
2 the Division.

3 (f) Waste from holding tanks not otherwise addressed in this Section, and from wastewater systems pumped more  
4 often than every 30 days, shall not be considered domestic septage and shall not be land applied at a permitted septage  
5 land application site.

6 (g) Inspection and entry. The permit holder of a septage management firm or facility shall allow a representative of  
7 the Division to:

8 (1) ~~Enter~~ enter the permit holder's premises where a regulated facility or activity is located or conducted;

9 (2) ~~Access~~ access and copy any records required in accordance with this Section or conditions of the  
10 permit;

11 (3) ~~Inspect~~ inspect any facilities, equipment (including monitoring and control equipment), ~~practices~~  
12 practices, or operations regulated by the Division;

13 (4) ~~Sample~~ sample or monitor for the purposes of assuring permit compliance or as otherwise authorized  
14 by the Federal Clean Water Act or the North Carolina Solid Waste Management Act, any substances,  
15 ~~parameters~~ parameters, or soils at any location; and

16 (5) ~~Photograph~~ photograph for the purpose of documenting times of compliance or noncompliance at  
17 septage management facilities or to require the permit holder to make such photos for the Division.

18 (h) Washings from the interior of septage handling containers such as pump trucks shall be managed as septage.  
19 ~~Failure of a person to follow a requirement in any rule set forth in this Section or the taking of any action prohibited~~  
20 ~~by any rule in this Section shall constitute a violation of that rule.~~

21  
22 *History Note: Authority G.S. 130A-291.1, 130A-291.2, 130A-295.3(c), 130A-335;*

23 *Eff. October 1, 2009;*

24 *Amended Eff. January 1, 2014, 2014;*

25 *Readopted Eff. January 1, 2019.*

## REQUEST FOR TECHNICAL CHANGE

AGENCY: Environmental Management Commission

RULE CITATION: 15A NCAC 13B .0833

**DEADLINE FOR RECEIPT: Friday, December 7, 2018**

**PLEASE NOTE: This request may extend to several pages. Please be sure you have reached the end of the document.**

*Just so I'm clear as to what is going on in (c) and (d), an operator is required to submit these applications each year, regardless of whether it is a renewal application or a regular application, the information required is the same? If that's correct, how does this go with the ability to get a renewal permit for up to 5 years in .0832(a)(8)?*

*In (c)(13), what kind of other information may be necessary? I understand the need for a catch all, but can you give some kind of guidance as to when that information may be necessary? For example, will you this kind of thing be requested when you all need additional information to determine whether the site is in compliance with your Rules?*

*Given (c)(14) of this Rule, is (e) necessary? It appears to say the same thing in a different way.*

*In (g), please consider turning this into an affirmative statement. A suggestion would be something like "Prior to the issuance of a septage management firm permit to firms that pump septage, all pumper trucks shall be inspected and approved." Also, I assume that the requirements for approval of the trucks are set forth elsewhere in rule or statute?*

*Just to make sure that I understand, in (i), the permit will be issued for one year unless it is issued on or after January 1, in which case it would be valid until December 31?*

Please retype the rule accordingly and resubmit it to our office at 1711 New Hope Church Road, Raleigh, North Carolina 27609.

Amber May  
Commission Counsel  
Date submitted to agency: November 28, 2018

1 15A NCAC 13B .0833 is readopted as published in 33:04 NCR 404 as follows:

2  
3 **15A NCAC 13B .0833 SEPTAGE MANAGEMENT FIRM PERMITS**

4 (a) Septage management firm names ~~must~~ shall be distinguishable upon the records of the Division from the name of  
5 other septage management firms, limited liability companies, non-profit corporations, business corporations, limited  
6 partnerships, sole proprietors, general ~~partners~~ partners, and limited liability partnerships operating in North Carolina.  
7 Naming preference shall be given to companies that are listed as incorporated with the NC Secretary of State's office.

8 (b) A person who has not operated a septage management firm during the previous calendar year shall obtain four  
9 hours of new operator training from the Division prior to receiving a permit to operate a septage management firm.

10 (c) To apply for a permit, a person proposing to operate a septage management firm shall submit the following  
11 information to the Division by January 1 of each year:

- 12 (1) ~~Owner's~~ owner's name, ~~address~~ address, and phone number;
- 13 (2) ~~Business~~ business name, ~~address~~ address, and phone number;
- 14 (3) ~~Operator~~ operator name, ~~address~~ address, and phone number, if different from owner;
- 15 (4) ~~Permit~~ permit number, if existing firm;
- 16 (5) ~~Type(s)~~ type(s) of septage handled, and the quantity pumped the previous 12 months, if in operation;
- 17 (6) ~~Number~~ number of pumper trucks;
- 18 (7) ~~Capacity~~ capacity and type of septage handled by each pumper truck;
- 19 (8) ~~Vehicle~~ vehicle license and serial numbers of each pumper truck;
- 20 (9) ~~Counties~~ counties in which the firm operates;
- 21 (10) ~~Disposal~~ disposal method(s) for septage;
- 22 (11) ~~Permit~~ permit number for each septage land application site to be used;
- 23 (12) ~~Permit~~ permit number for each septage detention and treatment facility to be used;
- 24 (13) ~~Technical~~ any other information that the Division may request that is pertinent to the operation of a  
25 septage management firm;
- 26 (14) ~~Written~~ written authorization on official letterhead or a notarized wastewater treatment plant  
27 authorization form shall be submitted from an individual responsible for the operation of each  
28 wastewater treatment plant used for disposal indicating:
  - 29 (A) ~~Type(s)~~ type(s) of septage ~~which can~~ that may be discharged at the plant;
  - 30 (B) ~~Where~~ where septage, including grease septage, ~~can~~ may be discharged at the plant or in  
31 the collection system;
  - 32 (C) ~~Geographic~~ geographic area from which septage will be accepted; and
  - 33 (D) ~~Duration~~ duration of ~~authorization~~ authorization;
- 34 (15) ~~The~~ the appropriate annual permit fee in accordance with G.S. 130A-291.1(e); and
- 35 (16) ~~The~~ the date, location, number of hours, and provider of annual septage management firm training  
36 required in accordance with G.S. 130A-291.3(a).

(d) Persons that operate a septage land application site or a septage treatment and detention facility, but do not pump septage, shall submit the following information to the Division by January 1 of each year to apply for a permit:

- (1) ~~Facility~~ facility name, address, phone number, and county;
- (2) ~~Owner's~~ owner's name, ~~address~~ address, and phone number;
- (3) ~~Operator~~ operator name, ~~address~~ address, and phone number, if different from owner;
- (4) ~~Permit~~ permit number, if existing firm;
- (5) ~~Type(s)~~ type(s) of septage managed;
- (6) ~~Facility~~ facility types and their permit numbers;
- (7) ~~The~~ the name and permit number of all permitted septage management firms using the facility;
- (8) ~~The~~ the date, location, number of hours, and provider of annual training in accordance with G.S. 130A-291.3(b); and
- (9) ~~The~~ the appropriate annual permit fee in accordance with G.S. 130A-291.1(e1).

(e) A septage management firm permit shall not be issued unless the applicant has submitted to the Division written documentation of authorized access to dispose or otherwise manage septage, or any part of septage, at a wastewater treatment plant, a permitted septage land application site, a permitted septage treatment facility, or other ~~appropriately~~ permitted solid waste management facility. Documentation from each plant, site, or other facility shall include the types and amount of septage ~~which~~ that may be discharged.

(f) Septage management firm permits shall not be issued until all parts of the application have been completed.

(g) A septage management firm permit shall not be issued to firms that pump septage until its pumper truck(s) have been inspected and approved.

(h) ~~Permits are non-transferable.~~ shall not be transferable.

(i) Septage management firm permits are issued for up to one calendar year. Permits issued on or after January 1 shall be effective until December 31 of that calendar year.

*History Note: Authority G.S. 130A-291.1;*

*Eff. November 1, ~~2009~~, 2009;*

*Readopted Eff. January 1, 2019.*

1 15A NCAC 13B .0834 is readopted as published in 33:04 NCR 404 as follows:

2  
3 **15A NCAC 13B .0834 PERMIT FEES**

4 (a) Every septage management firm shall pay an annual permit fee by January 1 of each year in accordance with G.S.  
5 130A-291.1(e) or (e1), unless the firm notifies the Division prior to January 1 that the firm will not operate during the  
6 next year. Fees shall be paid to the Division of Waste Management, Solid Waste Section, 1646 Mail Service Center,  
7 Raleigh, NC 27699-1646. ~~This fee may be paid by check or money order made payable to the Division of Waste~~  
8 ~~Management.~~

9 (b) Annual fees are not pro-rated and shall not be refunded or credited to a subsequent year.

10 (c) Failure to apply for permit renewal or failure to pay the permit fee by January 1 shall result in assessment of a late  
11 fee in accordance with G.S. 130A-291.1(e2). Failure to pay the appropriate fees within 45 days after January 1 shall  
12 result in an additional administrative penalty pursuant to G.S. 130A-22(a) of ten dollars (\$10.00) per day for each day  
13 thereafter that the fees are not paid.

14 (d) Annual permit renewal, including fee payment, shall be the responsibility of the operator of the septage  
15 management firm. If the operator did not receive annual permit renewal forms, it shall not be a defense to assessment  
16 of late fees.

17 (e) A food service facility that is permitted to operate a septage detention facility in accordance with Rules .0836 and  
18 .0833 of this Section and that has paid the fee specified in G.S. 130A-291.1(e1) shall be allowed to empty their own  
19 grease interceptors, separators, traps, or other appurtenances used for the purpose of removing cooking oils, fats,  
20 grease, and food debris from the waste flow generated from food handling, preparation, and cleanup, that have a  
21 volume of 25 gallons or less, into the permitted detention facility. The permitted facility shall be constructed and  
22 located in accordance with the requirements of Rule .0841 of this Section and emptied at least quarterly by a permitted  
23 septage management firm.

24  
25 *History Note: Authority G.S. 130A-291.1;*

26 *Eff. October 1, 2009, 2009;*

27 *Readopted Eff. January 1, 2019.*  
28  
29  
30

## REQUEST FOR TECHNICAL CHANGE

AGENCY: Environmental Management Commission

RULE CITATION: 15A NCAC 13B .0835

**DEADLINE FOR RECEIPT: Friday, December 7, 2018**

**PLEASE NOTE: This request may extend to several pages. Please be sure you have reached the end of the document.**

*In (a), please consider changing "Disposal of septage by trenching or burial is prohibited by the rules of this Section" to "Septage shall not disposed of by trenching or burial."*

*In .0836(c)(1)(B), you have said "landowner" as opposed to "land owner." Please be consistent*

*In (c)(4), please delete "defined in G.S. 130A-290" as you have used the word "septage elsewhere" without providing the cross-reference.*

*In (c)(7), what is meant by "conditions that cause the site to be unavailable for use"? Can you provide some examples? I understand that you replaced "adverse weather conditions" with this to provide some additional information, but I think it would be more clear if you kept both. Perhaps something like "... conditions that cause the site to be unavailable for use, such as adverse weather conditions."*

*In (c)(10), lines 35-4 on page 2 (If required... G.S. 89E) seem out of place. Please consider moving these to the end of this paragraph without an indent.*

*In (c)(10)(A), please delete the colon after "include" on line 8, page 2. Also, please change the semi-colon on line 11 after "sodium" to a comma.*

*In (c)(10)(A), what is meant by "and may include additional analyses"? Is this at the discretion of the soil scientist and the intent here is just to say that it's no problem for you all if more is included, but you all have to have the information provided?*

*In (c)(10)(C), please delete or define "proper" in "proper evaluation"*

*In (c)(10)(D), what are the "applicable setbacks"? Are these set forth elsewhere?*

*In (c)(17)(B), please provide the cost and where these can be found. Also, what is meant by "other similar publications"?*

*In (c)(18), what is "the appropriate State or Federal Government agency"? How does your regulated public know?*

*In (c)(20), what kind of other information may be necessary? I understand the need for a catch all, but can you give some kind of guidance as to when that information may be necessary?*

Amber May  
Commission Counsel  
Date submitted to agency: November 28, 2018

*In (c)(21), what is considered to be “adequate public notice”? Please delete or define “adequate”?*

*Please delete “and” at the end of (c)(22)*

*Please change the period to a semi colon at the end of (c)(23) and add an “and”*

*What is the overall intent of (d)? Is this to say that in order to apply septage in excess of 50,000 gallons per acre per year must first demonstrate that they have operated a septage land application permit for at least 12 months? If so, please say that. As written, I’m a bit confused as to the overall intent.*

*In (k), how is the duration determined?*

Please retype the rule accordingly and resubmit it to our office at 1711 New Hope Church Road, Raleigh, North Carolina 27609.

1 15A NCAC 13B .0835 is readopted with changes as published in 33:04 NCR 404 as follows:

2  
3 **15A NCAC 13B .0835 SEPTAGE LAND APPLICATION SITE PERMITS**

4 (a) No person shall establish, or allow to be established upon any real property owned, operated, leased, or controlled  
5 by that person, established on his land, a septage management facility ~~to~~, to treat, manage, store, or dispose of septage,  
6 or any component of septage, unless a permit has been obtained from the Division. Disposal of septage by trenching  
7 or burial is prohibited under the rules of this Section.

8 (b) Any person that has not operated as a septage land application site during the previous calendar year shall receive  
9 at least three hours of new land application site operator training from the Division prior to receiving a permit to  
10 operate a septage land application site.

11 (c) To apply for a permit for a septage land application site, the following information shall be submitted to the  
12 Division:

13 (1) ~~Location of the site;~~

14 (2)(1) ~~Name,~~ name, address, and phone number of:

15 (A) the applicant;

16 (B) the land owner or the owner's legal representative in control of the site; and

17 (C) the proposed operator;

18 (2) location of the site;

19 (3) ~~Written~~ written authorization to operate a septage land application site signed by each landowner (if  
20 other than the permit holder) or ~~his~~ the landowner's legal representative;

21 (4) ~~Types~~ types of septage (~~as defined in G.S. 130A-290~~ 130A-290) and the proposed annual volume  
22 of each type of septage proposed for land application per acre, based on the nutrient management  
23 plan submitted in accordance with Subparagraph (c)(12) of this Rule; ~~submitted.~~

24 (5) ~~Substances~~ substances other than septage previously disposed of at this location, and the amounts  
25 of those substances;

26 (6) ~~Aerial~~ aerial photography extending for a distance of at least 2500 feet in all directions from the  
27 site, with site property boundaries depicted; ~~accurately depicted.~~ Photograph scale shall be 1"=400  
28 feet or less;

29 (7) ~~Alternative~~ alternative plan for the detention or disposal of septage, during ~~adverse weather~~  
30 conditions; conditions that cause the site to be unavailable for use;

31 (8) ~~Treatment~~ treatment method for each type of septage to be discharged and the permit number of any  
32 treatment facilities;

33 (9) ~~Vicinity~~ vicinity map (county road map) showing the site location;

34 (10) ~~A~~ a written report that documents compliance with Rule .0837 of this Section including; ~~Section,~~  
35 including, but not limited to the following: If required by G.S. 89F, G.S. ~~89C~~ 89C, and G.S. 89E, a  
36 licensed soil scientist, professional engineer, or licensed geologist shall prepare these documents.

37 [Note: The North Carolina Board of Licensing of Soil Scientists, Board of Examiners for Engineers



1 and ~~Surveyors~~ Surveyors, and the Board of Licensing of Geologists has determined, via letters dated  
2 November 16, 2009, March 11, ~~2010~~ 2010, and January 7, 2010, that preparation of documents  
3 pursuant to this Paragraph constitutes soil science, practicing engineering, or geology under G.S.  
4 89F, G.S. ~~89C~~ 89C, and G.S. 89E.]

5 (A) ~~A~~ a representative soils analysis (~~i.e., such as the Standard Soil Fertility Analysis,~~  
6 ~~Analysis~~), conducted within the last six months, on each proposed field of each proposed  
7 land application site. The ~~Standard Soil Fertility Analysis~~ representative soils analysis shall  
8 include; shall include, but is not necessarily limited to: acidity, base saturation (by  
9 calculation), calcium, cation exchange capacity, exchangeable sodium percentage (by  
10 calculation), magnesium, manganese, percent humic matter, pH, phosphorus, potassium,  
11 and sodium; and may include additional analyses;

12 (B) ~~A~~ a total metal analysis for each proposed field shall be conducted for arsenic, cadmium,  
13 copper, lead, nickel, selenium, and zinc. A North Carolina Department of Agriculture &  
14 Consumer Services (~~NCDA & CS~~)(NCSA&CS) mehlich-3 extraction ~~is~~ shall be an  
15 acceptable substitute for a total metal analysis. Mercury shall be sampled if the applicant  
16 proposes to land apply domestic or industrial or commercial treatment plant septage, or if  
17 warranted by previous site use;

18 (C) ~~Field~~ field description of soil profile(s), based on examinations of excavation pits and auger  
19 borings, within four feet of the land surface or to bedrock describing the following  
20 parameters by individual diagnostic horizons: thickness of the horizon; texture; color and  
21 other diagnostic features; structure; internal drainage; depth, thickness, and type of  
22 restrictive horizon(s); and presence or absence and depth of evidence of any seasonal high  
23 water table. Applicants may be required to dig pits when necessary for proper evaluation  
24 of the soils at the site;

25 (D) ~~A~~ a soil map, ~~scale 1" = 400 feet or less,~~ map delineating major soil mapping units within  
26 each proposed land application site and showing all physical features, location of pits and  
27 auger borings, applicable setbacks, legends, scale, and a north arrow;

28 (E) ~~If~~ if the annual application rate is proposed to exceed 125,000 gallons per acre per year,  
29 ~~year~~ field descriptions to a depth of six ~~feet~~ feet, shall be required; and

30 (F) Global Positioning System (GPS) data compatible with the Division's ~~Department's~~  
31 datalogger shall be provided for proposed sites 30 acres or more in size.

32 (11) ~~Applicants~~ applicants proposing to land apply 200,000 gallons per acre per year or more shall  
33 provide a plan for monitoring soil moisture levels and the depth to seasonal wetness to determine  
34 when land application ~~can~~ may occur without impacting ~~ground-water~~ groundwater or hydraulic  
35 overloading. The plan shall include recommendations concerning annual and instantaneous loading  
36 rates of liquids, solids, other wastewater ~~constituents~~ constituents, and amendments based on in-situ  
37 measurement of saturated hydraulic conductivity in the most restrictive horizon. If required by G.S.

89C, G.S. ~~89F~~ 89F, and G.S. 89E, a professional engineer, licensed soil ~~scientist~~ scientist, or licensed geologist shall prepare these documents. [Note: The North Carolina Board of Examiners for Engineers and Surveyors, Board of Licensing of Soil ~~Scientists~~ Scientists, and the Board of Licensing of Geologists has determined, via letters dated March 11, 2010, November 16, ~~2009~~ 2009, and January 7, 2010, that preparation of documents pursuant to this Paragraph constitutes practicing engineering, soil ~~science~~ science, or ~~geology~~, geology under G.S. 89C, G.S. ~~89F~~ 89F, and G.S. 89E.]

(12) ~~Nutrient management plan, prepared by a Technical Specialist, including at least a nutrient management plan prepared by an environmental professional that shall include the following: the following:~~

- (A) ~~Crops~~ crops that will be planted on the site, including cover crops, and where each crop will be planted. Crop planting locations shall be depicted on an aerial photograph or on a plat ~~map; map~~ (scale 1" = 400 feet or less);
- (B) ~~Nitrogen~~ nitrogen needs of the crops based on the realistic yield expectations for the soils on the site, and crop management practices proposed;
- (C) ~~Crop~~ crop stand density required to meet the realistic yield expectations for the proposed crop;
- (D) ~~Approximate~~ approximate crop planting times and the seeding or sprigging rates for crops to be established;
- (E) ~~Crop~~ crop harvest frequency appropriate for the proposed realistic yield expectations and nitrogen needs, and approximate crop harvest times;
- (F) ~~Approximate~~ approximate monthly discharge rate to match the nitrogen needs and potential uptake of the crop;
- (G) ~~Sites~~ sites proposed to receive more than 50,000 gallons per acre per year of ~~domestic septage, or domestic or industrial or commercial treatment plant septage~~ septage, or domestic or grease septage that has been treated to remove solids, fats, oils, and grease shall include nitrogen carry over when determining annual application rates;
- (H) ~~Weed~~ weed control recommendations;
- (I) ~~Crop~~ crop use or removal;
- (J) ~~Results~~ results from at least four samples of treated septage if the application is proposing an increased application rate for the land application of septage treated to reduce nutrients; and
- (K) ~~the signature of the site operator. A Technical Specialist is not required for nutrient management plans for subsequent applications that do not contain changes that would affect nutrient uptake; and~~
- (L) ~~All nutrient management plans shall bear the signature of the site operator.~~

For the purposes of this Rule, an environmental professional means a person who has received a post-secondary degree from a college or university [baccalaureate or post graduate degree from a

- university] and has training and experience in or related to agronomic principles utilized to manage wastewater. Preparation by an environmental professional shall not be required for nutrient management plans for renewal applications that do not contain changes that would affect nutrient uptake.
- (13) ~~Application~~ application rates for sites proposed to receive treated septage shall be determined based on the most limiting nutrient;
- (14) ~~Erosion~~ erosion and runoff management plan showing:
- (A) ~~Buffer~~ buffer locations and widths based on the direction and amount of slope adjacent to the land application site;
- (B) ~~Vegetation~~ vegetation type and stand density in the buffer areas; and
- (C) ~~Buffer~~ buffer maintenance fertility requirements.
- (15) ~~Proposed~~ proposed land application ~~method~~; method;
- (16) ~~Proposed~~ proposed distribution plan if required in Paragraph (e) of Rule .0837 of this Section;
- (17) ~~Sites~~ sites proposing to use spray irrigation as a land application method shall include:
- (A) ~~The~~ the location of all fixed irrigation heads or the location of traveling gun irrigation lanes;
- (B) ~~Irrigation~~ irrigation head spacing and traveling gun lane spacing shall be determined based on standards in NC Cooperative Extension Documents AG-553-6 and AG-553-7 which are hereby incorporated by reference including subsequent amendments and additions, or other similar publications;
- (C) ~~The~~ the size of all spray nozzles;
- (D) ~~System~~ system operating pressure at the irrigation head;
- (E) ~~Calculation~~ calculation of the wettable acres vs. permitted acreage;
- (F) ~~Calibration~~ calibration methods and frequency; and
- (G) ~~Irrigation~~ irrigation system operation and maintenance plan.
- (18) ~~Demonstration~~ demonstration from the appropriate State or Federal Government agency that the land application site complies with ~~Paragraph (g) of Rule .0837~~ Rule .0837(g) of this Section if any part of the site specified for land application is not agricultural land;
- (19) ~~The~~ the date, location, number of hours, and provider of annual septage land application site operator training required in accordance with G.S. 130A-291.3(b);
- (20) ~~Technical~~ any other information that the Division may request that is pertinent to the suitability of the proposed site;
- (21) ~~An~~ an applicant who proposes to land apply ~~septage~~ septage, as defined in G.S. 130A-290, on a public contact site, shall provide the Division evidence of adequate public notice and the applicant shall have ~~successfully~~ completed the Land Application of Residuals ~~and Biosolids~~ Course and maintain a Land Application of Residuals Certificate ~~given~~ issued by the Department of Environmental Quality; Environment and Natural Resources; and

- (22) ~~An an~~ applicant who proposes to land apply ~~commercial/industrial~~ industrial or commercial treatment plant septage or domestic treatment plant ~~septage~~ septage, as defined in G.S. 130A-290, shall have ~~successfully~~ completed the Land Application of Residuals ~~and Biosolids~~ Course and maintain a Land Application of Residuals Certificate ~~given~~ issued by the Department of Environmental Quality; ~~Environment and Natural Resources~~; and
- (23) ~~An an~~ applicant who proposes to land apply ~~septage~~ septage, as defined in G.S. 130A-290, in excess of 50,000 gallons per acre per year shall provide the Division with evidence of adequate public notice which shall at a minimum be publication with a local news organization, in a local newspaper, shall have ~~successfully~~ completed the Land Application of Residuals ~~and Biosolids~~ Course and maintain a Land Application of Residuals Certificate issued by the Department of Environmental Quality. ~~Environment and Natural Resources~~.
- (24) an approval letter from the unit of local government having zoning authority over the area where the facility is to be located stating that the proposed facility meets all of the requirements of the local zoning ordinance, or that the site is not zoned.
- (d) Application rates for septage in excess of 50,000 gallons per acre per year and permits to land apply domestic, or industrial or commercial treatment plant septage shall not be granted to persons who have not demonstrated that they can ~~properly~~ operate a septage land application site in accordance with this Section for at least a 12 month period.
- (e) Applications for permits issued in accordance with this Rule shall be submitted to the Division of Waste Management, Solid Waste Section, 1646 Mail Service Center, Raleigh NC 27699-1646. Applications for permits will not be reviewed until all parts of the application have been completed and submitted to the Division.
- (f) Applications for permits ~~for sites or treatment methods which~~ that do not meet the standards in accordance with this Section shall be denied.
- (g) Applications for renewal permits issued in accordance with this Rule shall be submitted to the Division at least 90 days prior to the expiration date of the permit. The Division shall notify permit holders of facility permit expiration dates 120 days prior to permit expiration.
- (h) Applications for permit modification shall be required for the following changes:
- (1) ~~Permitted~~ permitted area or field boundaries;
  - (2) ~~Property~~ property ownership;
  - (3) ~~Annual~~ annual application rates;
  - (4) ~~Receiver~~ receiver crop; or
  - (5) ~~Types~~ types of septage discharged.
- (i) Applications for renewal permits submitted in accordance with Paragraph (g) of this Rule and applications for permit modifications shall not be required to resubmit the information required in Subparagraphs (c)(6), (8), (9), (10), (16), (17), and (18) unless changes are made in those plans.
- (j) Septage land application site permits ~~are~~ shall not be transferable.
- (k) Maximum permit duration including renewals ~~is~~ shall be five years.

1 ~~(1) Issuance of a permit does not relieve the permit holder of the responsibility of obtaining applicable zoning~~  
2 ~~approvals prior to operation of the site.~~

3  
4 *History Note: Authority G.S. 130A-291.1;*  
5 *Eff. April 1, ~~2010~~; 2010;*  
6 *Readopted Eff. January 1, 2019.*

## REQUEST FOR TECHNICAL CHANGE

AGENCY: Environmental Management Commission

RULE CITATION: 15A NCAC 13B .0836

**DEADLINE FOR RECEIPT: Friday, December 7, 2018**

***PLEASE NOTE: This request may extend to several pages. Please be sure you have reached the end of the document.***

*In .0835(c)(1)(B), you have said "land owner" as opposed to "landowner." Please be consistent*

*In (c)(11), what kind of other information may be necessary? I understand the need for a catch all, but can you give some kind of guidance as to when that information may be necessary?*

*Please end (c)(11) with a semi-colon and "and", rather than a period.*

*Just so I understand what is going on here applicants get a permit to construct and an interim permit to operate before getting a full operations permit? So, an applicant would do the application for a septage detention and treatment facility in (c), but if he or she wanted to go ahead and get going, he or she could also do the permit to construct and the interim permit in (d)? Please review and clarify.*

*In (d), how will it be determined for how long an interim permit will be allowed? Is it at the request of the applicant so long as it doesn't exceed 12 months?*

*In (e), treatment of what? Is this missing some information?*

*Please consider moving the last part of (e) regarding the requirements of the plans to Paragraph (d) (and move the PE information to the end of that paragraph.) I would suggest something like the following:*

(d) To apply for a permit to construct a septage treatment facility and obtain an interim permit to operate the ~~facility~~ facility, for a period not to exceed 12 months, plans and specifications shall be submitted. If required by G.S. 89C, a professional engineer shall prepare these documents. The plans shall include the information set forth in Paragraph (c) of this Rule and the following:

- (1) Site site plan at a scale appropriate to show the detail of the facility, but in no case greater than 100 feet per inch;
- (2) ~~Engineering~~ engineering plans for the entire system, including treatment, storage, and disposal equipment, and containment structures;
- (3) ~~Detail~~ detailed drawings shall be at a scale appropriate to show pumps, tanks, valves, controls, meters, pipes, and other items critical to the operation of the facility;
- (4) ~~An~~ an operation and maintenance manual outlining information and instruction on how the facility is to be operated, equipment maintenance, minimization of odors, required safety and personnel training, and an outline of reports to be submitted to the Division. Contingency plans shall be included to address at least

Amber May  
Commission Counsel  
Date submitted to agency: November 28, 2018

equipment failure, human error, inclement weather, and spill and leak cleanup;  
and

- (5) A a quality assurance plan for the process and final product if treatment involves  
meeting pathogen reduction or vector attraction reduction standards.

[Note: The North Carolina Board of Examiners for Engineers and Surveyors has determined, via letter and resolution dated March 11, 2010, that preparation of engineering design documents pursuant to this Paragraph constitutes practicing engineering under G.S. 89C.]

(e) Treatment shall include include, but not be limited to, aerobic or anaerobic digestion, dewatering or thickening, pressing, centrifuging, the use of organisms or enzymes, and pathogen reduction methods or vector attraction reduction methods other than lime stabilization. In addition to the requirements of Paragraph (e) of this Rule, the plans [required by Paragraph (d) of this Rule] shall include;

- (1) Site site plan at a scale appropriate to show the detail of the facility, but in no case greater than 100 feet per inch;
- (2) Engineering engineering plans for the entire system, including treatment, storage, and disposal equipment, and containment structures;
- (3) Detail detailed drawings shall be at a scale appropriate to show pumps, tanks, valves, controls, meters, pipes, and other items critical to the operation of the facility;
- (4) An an operation and maintenance manual outlining information and instruction on how the facility is to be operated, equipment maintenance, minimization of odors, required safety and personnel training, and an outline of reports to be submitted to the Division. Contingency plans shall be included to address at least equipment failure, human error, inclement weather, and spill and leak cleanup; and
- (5) A a quality assurance plan for the process and final product if treatment involves meeting pathogen reduction or vector attraction reduction standards.

*In (e)(3), please delete “detailed”*

*In (f), do you mean “pending receipt” or “upon receipt”? I think you mean “upon receipt”*

*In (g), how will it be determined whether the site will be approved? Is the criteria set forth elsewhere in rule or statute?*

*What is the difference in (h) and (i)? Is (h) just saying that you can’t operate until you get a permit and then (i) covers the permit?*

*In (j), when are renewals required? Can you combine (n) and (j) to make it clear that renewal applications shall be submitted at least 90 days prior to the expiration of the permit?*

*In (k) and (l), what does it mean that “the facilities shall be certified to be constructed in substantial compliance with plans and specifications”? What plans and specifications? The ones submitted in accordance with this Rule? Also, who makes this determination? The PE?*

*In (q), how is the duration determined?*

*In (r), what is to be included in the application for permit modification? Are the contents of this form set forth elsewhere in rule or statute?*

In (s), please change “which” to “that” in “which do not meet...”

Please retype the rule accordingly and resubmit it to our office at 1711 New Hope Church Road, Raleigh, North Carolina 27609.

Amber May  
Commission Counsel  
Date submitted to agency: November 28, 2018



1 15A NCAC 13B .0836 is readopted as published in 33:04 NCR 404 as follows:

2  
3 **15A NCAC 13B .0836 SEPTAGE DETENTION AND TREATMENT FACILITY PERMITS**

4 (a) ~~No person, shall establish on his land, No person shall establish,~~ or allow to be established upon any real property  
5 owned, operated, leased, or controlled by that person, on his land, a septage detention and treatment facility, unless a  
6 permit ~~for the facility~~ has been obtained from the Division or the facility is operating in accordance with a NPDES  
7 permit issued by the NC Division of Water Resources. Quality.

8 (b) Septage detention and treatment facilities shall be designed, located, constructed, and operated in accordance with  
9 the standards specified in Rule .0841 of this Section.

10 (c) To apply for a permit for a septage detention ~~or~~ and treatment facility the applicant shall submit the following  
11 information to the Division:

- 12 (1) ~~Name, name,~~ address, and phone number of
  - 13 (A) the applicant;
  - 14 (B) the landowner ~~land owner~~ or the ~~owner's~~ landowner's legal representative in control of the
  - 15 site; and
  - 16 (C) the proposed operator;
- 17 (2) ~~Location~~ location of the facility;
- 18 (3) ~~Vicinity~~ vicinity map or county road map showing the site location;
- 19 (4) ~~Types~~ types of septage to be stored or treated;
- 20 (5) ~~A~~ a description of the facility including the size, number, and type of structures to be used at the site
- 21 and construction materials to be used;
- 22 (6) ~~An~~ an explanation of the methods for discharge into and removal from the detention or treatment
- 23 facility, the methods for treating leaks or spills at the site, and methods for odor control;
- 24 (7) ~~Septage~~ septage land application site permit number and the name of any wastewater treatment
- 25 plant(s) where the septage will be disposed;
- 26 (8) ~~Written~~ written documentation of ~~acceptable~~ approved locations to manage any solid or liquid
- 27 wastes generated at a treatment facility;
- 28 (9) ~~An~~ an aerial photograph, extending for a distance of at least 1,000 feet in all directions from the site
- 29 property ~~lines; lines, scale 1" = 400 feet or less;~~
- 30 (10) ~~Written~~ written authorization to operate a septage detention or treatment facility signed by each
- 31 landowner (if other than the permit holder) or ~~his~~ the landowner's legal representative; and
- 32 (11) ~~Technical~~ any other information that the Division may request that is pertinent to the suitability of
- 33 the proposed facility.
- 34 (12) an approval letter from the unit of local government having zoning authority over the area where
- 35 the facility is to be located, stating that the proposed facility meets all of the requirements of the
- 36 local zoning ordinance, or that the site is not zoned.

(d) To apply for a permit to construct a septage treatment facility and obtain an interim permit to operate the facility ~~facility~~, for a period not to exceed 12 months, plans and specifications shall be submitted. If required by G.S. 89C, a professional engineer shall prepare these documents. [Note: The North Carolina Board of Examiners for Engineers and Surveyors has determined, via letter and resolution dated March 11, 2010, that preparation of engineering design documents pursuant to this Paragraph constitutes practicing engineering under G.S. 89C.]

(e) Treatment shall include ~~include, but not be limited to~~, aerobic or anaerobic digestion, dewatering or thickening, pressing, centrifuging, the use of organisms or enzymes, and pathogen reduction methods or vector attraction reduction methods other than lime stabilization. In addition to the requirements of Paragraph (c) of this Rule, the plans required by Paragraph (d) of this Rule shall include:

- (1) ~~Site~~ site plan at a scale appropriate to show the detail of the facility, but in no case greater than 100 feet per inch;
- (2) ~~Engineering~~ engineering plans for the entire system, including treatment, storage, and disposal equipment, and containment structures;
- (3) ~~Detail~~ detailed drawings shall be at a scale appropriate to show pumps, tanks, valves, controls, meters, pipes, and other items critical to the operation of the facility;
- (4) ~~An~~ an operation and maintenance manual outlining information and instruction on how the facility is to be operated, equipment maintenance, minimization of odors, required safety and personnel training, and an outline of reports to be submitted to the Division. Contingency plans shall be included to address at least equipment failure, human error, inclement weather, and spill and leak cleanup; and
- (5) ~~A~~ a quality assurance plan for the process and final product if treatment involves meeting pathogen reduction or vector attraction reduction standards.

(f) A permit to operate a septage treatment facility shall be issued pending receipt of the following:

- (1) ~~Certification~~ certification that the construction of the treatment facility is complete and consistent with the plans approved as part of the permit to construct;
- (2) ~~An~~ an updated operation and maintenance manual, including all the information required in Subparagraph (e)(4) of this Rule;
- (3) ~~As-built~~ as-built drawings if facility construction is not consistent with the approved plans;
- (4) ~~Operation~~ operation and maintenance manuals and quality assurance plans signed by the applicant; and
- (5) ~~Acceptable~~ compliance history for the facility. facility showing no unresolved violations of Federal, State, or local laws, rules, regulations, or ordinances.

(g) A permit for a new septage detention ~~or a septage~~ and treatment facility shall not be issued until the proposed site has been approved by the Division.

(h) Operation of a new septage detention or a new septage treatment facility shall not commence until the facility has been inspected by the Division and found to be consistent with the permit application.

(i) A permit to operate a treatment facility shall not be issued until the facility has been inspected by the Division and found to be consistent with the permit application and operation has been found to be consistent with the operation and maintenance manual.

(j) Application packages for permit renewals shall include:

(1) ~~Updated drawings~~ updated drawings, if there are changes to the ~~facility;~~ facility,

(2) ~~Updated site plans~~ updated site plans, ~~(if required as part of original submittal)~~ if there are changes to the ~~initial site plan;~~ plan,

(3) ~~A revised~~ updated operation and maintenance manual, if there are changes to the operation and maintenance manual; and

(4) ~~A revised~~ updated quality assurance plan, if there are changes to the quality assurance plan, ~~plan for the process and final product if treatment involves meeting pathogen reduction or vector attraction reduction standards.~~

(k) Engineering plans and specifications for marina detention tanks that do not meet the minimum setbacks in ~~.0841(m)~~ Rule .0841(m) of this Section or are located below grade shall be submitted. If required by G.S. 89C, a professional engineer shall prepare these documents. [Note: The North Carolina Board of Examiners for Engineers and Surveyors has determined, via letter and resolution dated March 11, 2010, that preparation of engineering design documents pursuant to this Paragraph constitutes practicing engineering under G.S. 89C.] The facilities shall be certified to be constructed in substantial compliance with the plans and specifications.

(l) Parts of detention and treatment facilities located below grade and lagoons shall be certified to be constructed in substantial compliance with the plans and specifications. If required by G.S. 89C, a professional engineer shall certify the construction. [Note: The North Carolina Board of Examiners for Engineers and Surveyors has determined, via letter and resolution dated March 11, 2010, that preparation of engineering design documents pursuant to this Paragraph constitutes practicing engineering under G.S. 89C.]

(m) Applications shall be submitted to the Division of Waste Management, Solid Waste Section, 1646 Mail Service Center, Raleigh NC 27699-1646. Applications for permits will not be reviewed until all parts of the application have been completed and submitted to the Division.

(n) Applications for renewal permits shall be ~~made~~ submitted to the Division at least 90 days prior to the expiration of the permit. The Division ~~will~~ shall notify permit holders of facility permit expiration dates 120 days prior to permit expiration.

(o) Applications for renewal permits submitted in accordance with Paragraph (j) and (n) of this Rule and applications for permit modifications shall not be required to resubmit the information required in Subparagraphs (c)(3) and (9), and Paragraph (d) unless changes are made in those plans.

(p) Septage detention and treatment facility permits ~~are~~ shall not be transferable.

(q) Maximum permit duration including renewals ~~is~~ shall be five years.

(r) Applications for permit modifications shall be required for the following changes: ~~changes in:~~

(1) ~~Property~~ property ownership;

(2) ~~Treatment~~ treatment methods;

(3) ~~Types~~ types of septage to be stored or treated; or

(4) ~~Size~~ size and number of treatment or storage structures.

(s) Applications for facilities which do not meet the standards set forth in this Section shall be denied.

(t) An application requesting reduced setbacks in accordance with Rule .0841(m)(7) of this Section shall include a letter from the appropriate local zoning ~~office~~, office approving proposed reduced setbacks.

~~(u) Issuance of a permit does not relieve the permit holder of the responsibility of obtaining applicable zoning approvals prior to operation of the facility.~~

*History Note:* Authority G.S. 130A-291.1;

*Eff. April 1, ~~2010~~ 2010;*

Readopted Eff. January 1, 2019.

## REQUEST FOR TECHNICAL CHANGE

AGENCY: Environmental Management Commission

RULE CITATION: 15A NCAC 13B .0837

**DEADLINE FOR RECEIPT: Friday, December 7, 2018**

**PLEASE NOTE: This request may extend to several pages. Please be sure you have reached the end of the document.**

*(a)(1) references both the soil textures in (a)(1), but also references the textures set forth in (a)(2). I don't understand the reference to textures here.*

*In (a)(2)(D), please change "will form a ball" to "forms a ball"*

*In (a)(2)(E), please change "will show a fingerprint" to "shows a fingerprint," Also, please change will not to "does not"*

*In (a)(2)(F), please change "will not ribbon" to "does not ribbon" or "does not form a ribbon" and "will tolerate" to "tolerates"*

*In (a)(2)(H), please change "will ribbon" to "ribbons" or "will form a ribbon"*

*In (a)(2)(M), by "may", do you mean "shall" in "may allow laboratory..." Also, what is the ASTM for sieve and hydrometer analysis?*

*In (a)(3)(B) and (a)(3)(C), what are the required depths? Those in (a)(4) through (7)?*

*In (a)(3)(B), what are the "required separation distances"?*

*In (a)(3)(B), what is meant by "The Division may limit discharges to certain months were soil wetness conditions are marginal for use"?*

*In (a)(8), what factors will be used in making a "case by case basis" of mine reclamations?*

*In (e), what is considered to be an "unusual shape"?*

*In (e), what is meant by "only if the applicant demonstrates to the division that the site will be..." When are they to "demonstrate"? During the application process? If so, isn't this already covered since you've said elsewhere that a permit will be denied if a site does not comply with your Rules? Is the intent here to say something like "Septage land applications sites less than five acres in size, individual fields or a site less than two acres in size, and sites with complex soil patterns or unusual size shall manage for crop production and septage shall be applied with uniform distribution over the entire permitted application area"?*

*In (f)(2), what is meant by "approved erosion and runoff control practices"?*

*In (h), delete "as defined in G.S. 130A-290"*

Amber May

Commission Counsel

Date submitted to agency: November 28, 2018

*In (h), what is meant by "Treatment verification, acceptable to the Division, shall be available"?*

Please retype the rule accordingly and resubmit it to our office at 1711 New Hope Church Road, Raleigh, North Carolina 27609.

Amber May  
Commission Counsel  
Date submitted to agency: November 28, 2018

1 15A NCAC 13B .0837 is readopted as published in 33:04 NCR 404 as follows:

2  
3 **15A NCAC 13B .0837 LOCATION OF SEPTAGE LAND APPLICATION SITES**

4 (a) Soil characteristics (Morphology) ~~which that~~ shall be evaluated are as follows:

5 (1) Texture – The relative proportions of the sand, silt, and clay sized mineral particles in the fine-earth  
6 fraction of the soil are referred to as soil texture. The texture of the different horizons of soils shall  
7 be classified into three general groups and 12 soil textural classes based upon the relative proportions  
8 of sand, silt, and clay sized mineral particles.

9 (A) Soil Group I – Sandy Texture Soils: The sandy group includes the sand and loamy sand  
10 textural classes.

11 (B) Soil Group II – Coarse Loamy and Fine Loamy Texture Soils: The coarse loamy and fine  
12 loamy group includes sandy loam, loam, silt, silt loam, sandy clay loam, clay loam, and  
13 silty clay loam textural classes.

14 (C) Soil Group III – Clayey Texture Soils: The clayey group includes sandy clay, silty clay,  
15 and clay textural classes.

16 (2) The soil textural class shall be determined in the field by hand texturing samples of each soil horizon  
17 in the soil profile using the following criteria:

18 (A) Sand: Sand has a gritty feel, does not stain the fingers, and does not form a ribbon or ball  
19 when wet or moist;

20 (B) Loamy Sand: Loamy sand has a gritty feel, stains the fingers, forms a weak ball, and cannot  
21 be handled without breaking;

22 (C) Sandy Loam: Sandy loam has a gritty feel and forms a ball that can be picked up with the  
23 fingers and handled with care without breaking;

24 (D) Loam: Loam may have a slightly gritty feel but does not show a fingerprint and forms only  
25 short ribbons of from 0.25 inch to 0.50 inch in length. Loam will form a ball that can be  
26 handled without breaking;

27 (E) Silt Loam: Silt loam has a floury feel when moist and will show a fingerprint but will not  
28 ribbon and forms only a weak ball;

29 (F) Silt: Silt has a floury feel when moist and sticky when wet but will not ribbon and forms a  
30 ball that will tolerate some handling;

31 (G) Sandy Clay Loam: Sandy clay loam has a gritty feel but contains enough clay to form a  
32 firm ball and may form ribbons from ribbon to form 0.75 inch to one-inch long pieces;

33 (H) Silty Clay Loam: Silty clay loam is sticky when moist and will ribbon from one to two  
34 inches. Rubbing silty clay loam with the thumbnail produces a moderate sheen. Silty clay  
35 loam produces a distinct fingerprint;

- (I) Clay Loam: Clay loam is sticky when moist. Clay loam forms a thin ribbon of one to two inches in length and produces a slight sheen when rubbed with the thumbnail. Clay loam produces a nondistinct fingerprint;
- (J) Sandy Clay: Sandy clay is plastic, ~~gritty~~ gritty, and sticky when moist and forms a firm ball and produces a thin ribbon ~~to~~ over two inches in length;
- (K) Silty Clay: Silty clay is both plastic and sticky when moist and lacks gritty feeling. Silty clay forms a ball and ~~readily~~ ribbons to over two inches in length;
- (L) Clay: Clay is both sticky and plastic when moist, produces a thin ribbon over two inches in length, produces a high sheen when rubbed with the thumbnail, and forms a strong ball resistant to breaking;
- (M) The Division may ~~substitute~~ allow laboratory determination of the soil textural class as defined in this Section by particle-size analysis of the fine-earth fraction (less than 2.0 mm in size) using the sand, ~~silt~~ silt, and clay particle sizes as defined in this Section for field testing when conducted in accordance with ASTM (~~American Society for Testing and Materials~~) D-422 ~~procedures~~ methods for sieve and hydrometer analysis. ~~For fine loam and clayey soils (Group II and III) the dispersion time shall be increased to 12 hours.~~
- (3) Wetness Condition:
- (A) Soil wetness conditions caused by a seasonal ~~high water~~ high water table, perched water table, tidal water, or seasonally saturated soils shall be determined by observation of common soil mottles of colors of chroma 2 or less, using the Munsell color chart, in mottle or a solid mass. If drainage modifications have been made, the soil wetness conditions may be determined by direct observation of the water surface in monitoring wells during periods of typically high water elevations. However, colors of chroma 2 or less ~~which~~ that are relic from minerals of the parent material shall not be considered indicative of a soil wetness condition.
- (B) Soils ~~which~~ that do not meet the required depths to a soil wetness condition shall be considered unsuitable and septage shall not be applied, unless the required separation distances ~~can~~ may be maintained. Water table monitoring wells may be utilized to determine the actual depth to a soil wetness condition. The Division may limit discharges to certain months where soil wetness conditions are marginal for use.
- (C) The required depth to a soil wetness condition is determined by the Soil Group Textural Classification.
- (4) Soil Group I soil shall be considered suitable where soil wetness conditions are deeper than 36 inches below the point of septage application or incorporation.
- (5) Soil Group II soils shall be considered suitable where soil wetness conditions are deeper than 24 inches below the point of septage application or incorporation.



- (6) Soil Group III soils shall be considered suitable where soil wetness conditions are deeper than 18 inches below the point of septage application or incorporation.
- (7) Depth to rock: soil depth shall be considered suitable where depth to rock is deeper than 24 inches below the point of septage application or incorporation or deeper than 18 inches if the septage is pretreated to accomplish pathogen reduction and surface applied over vegetation.
- (8) Mine reclamation sites ~~will~~ shall be considered on a ~~case-by-case~~ case-by-case basis.
- (b) Septage land application sites shall not be located in the watershed of a Class WS-I stream. New septage land application sites shall not be located in the water quality critical area of Class WS-II, WS-III, or WS-IV streams or reservoirs. This prohibition ~~does~~ shall not apply to those portions of a water supply watershed ~~that~~ which are drained by Class B or Class C streams.
- (c) ~~Setbacks.~~ At the time of initial permitting, septage land application sites shall observe the minimum setback distances specified in this Rule. Minimum setbacks shall be maintained throughout the life of the site only on land owned, ~~operated~~ operated, or controlled by the permittee or by the landowner(s) at the time of initial permitting. Any sale, ~~lease~~ lease, or other conveyance of land by the permittee, or by the landowner(s) if different from the permittee, subsequent to the initial permitting of the site shall include restrictions to ensure continued maintenance of the setbacks. ~~Failure to maintain required setbacks shall result in immediate permit revocation.~~
- (d) All septage disposal sites shall be located at least the minimum distance specified for the following:
- (1) ~~Residence~~ residence:
    - (A) not occupied by the applicant – 500 ~~feet~~; feet;
    - (B) ~~residence~~ occupied by the applicant – 100 feet;
  - (2) ~~Place~~ place of business, other than the septage management firm's office or related buildings, ~~firm~~ office, or place of public assembly – 500 feet;
  - (3) ~~Well~~ well or water supply spring – 500 feet;
  - (4) ~~Surface waters. Stream~~ surface waters – stream classification shall be determined in accordance with 15A NCAC 02B .0301 through .0317 Assignment of Stream Classifications;
  - (5) ~~Fresh~~ fresh waters:
    - (A) Class WS-I, Class WS-II, or Class WS-III streams – 300 feet;
    - (B) Class B stream – 300 feet;
    - (C) Class C stream – 200 feet; ~~and~~
    - (D) ~~Other~~ other streams and bodies of water – 200 feet;
  - (6) ~~Tidal~~ tidal salt waters:
    - (A) Class SA or Class SB – 300 feet from mean high water mark; ~~and~~
    - (B) Class SC and other coastal waters – 200 feet from mean high water mark; ~~mark~~.
  - (7) ~~Supplemental~~ supplemental classifications:
    - (A) ~~Trout~~ trout waters and swim waters – 200 feet; ~~and~~
    - (B) ~~Nutrient~~ nutrient sensitive waters and outstanding resource waters – 300 ~~feet~~; feet.
  - (8) ~~Groundwater~~ groundwater lowering ditches and devices – 100 feet;

- (9) ~~Adjoining~~ adjoining property under separate ownership or control – 50 feet;
- (10) ~~Public~~ public road right of ways – 100 feet;
- (11) ~~Food~~ food crops – 50 feet;
- (12) ~~Wetlands~~ wetlands – 50 feet;
- (13) ~~Woods~~ woods line – five feet, unless greater distance is required as part of an erosion and runoff control plan;
- (14) ~~Land~~ land application site on the same tract of land, permitted to a different operator – 100 feet; and
- (15) ~~Setbacks~~ setbacks in Subparagraphs (d)(3), (4), (5), (6), (7), and (8) of this Rule may be reduced 50 percent when septage is pretreated to accomplish pathogen reduction and when the land within the setback area is in permanent, established grass with at least 95 percent cover or when the setback area is in forest with a continuous canopy and a 95 percent forest litter cover. Accurate property line locations ~~are~~ shall be the responsibility of the site operator.
- (e) Septage land application sites less than five acres in size, individual fields of a site less than two acres in size, and sites with complex soil patterns or unusual shapes shall be permitted only if the applicant demonstrates to the Division that the site ~~can~~ will be ~~properly~~ managed for crop production and that septage will be applied with uniform distribution over the entire permitted application area. ~~can be evenly distributed over the site.~~
- (f) Septage land application sites shall not be located where the slope of the land is greater than 12 percent unless all of the conditions of this Paragraph are met:
- (1) ~~The~~ the site is in permanent, established grass with at least 95 percent cover or is in forest with a continuous canopy and a 95 percent forest litter cover;
  - (2) ~~Plans~~ plans submitted to the Division are prepared in accordance with ~~accepted~~ approved erosion and runoff control practices and indicate the following:
    - (A) ~~Management~~ management practices and discharge methods ~~which that~~ that will be used to reduce the potential for run-off from the site and ~~assure even septage distribution over the site~~ allow for the uniform distribution of septage over the entire permitted application area; and
    - (B) ~~Location~~ location of potential surface water monitoring devices upslope and downslope from the area proposed to be permitted and identification of sampling methods. Monitoring may be ~~required.~~ if there is an indication that septage is entering surface waters.
  - (3) The Division may increase setbacks or decrease application rates for the protection of surface waters; Setbacks will be increased and application rates decreased as appropriate to protect any nearby surface waters which are to be approved by the Division; and
  - (4) ~~No~~ no site shall include slopes in excess of 25 percent.
- (g) A new septage land application site shall not jeopardize the continued existence of threatened or endangered species or result in the destruction or adverse modification of a critical ~~habitat,~~ habitat protected under the Federal Endangered Species Act of 1973. Agricultural land shall not be considered potential habitat.

(h) Septage, or any part of septage, as defined in G.S. 130A-290, treated to meet the standard for Class A sewage sludge in accordance with the federal regulations for pathogen reduction and vector attraction reduction in 40 CFR Part 503, Subpart D, may be permitted by the Division for application to a public contact site, home lawns and gardens, or to be sold or given away in a bag or other container, provided it can be demonstrated that pollutant limits in 40 CFR ~~503.13(b)(3)~~ ~~503.13(b)(4)~~ Table 3 Pollutant Concentrations are not exceeded. Persons who prepare the septage, and persons who derive material from the septage, shall comply with the applicable record keeping requirements in 40 CFR 503.17(a)(1), (2) or (6). Treatment verification, acceptable to the Division, shall be available. All treatment methods and facilities shall obtain a permit from the Division in accordance with Rule .0836 of this Section. ~~.0836.~~

*History Note: Authority G.S. 130A-291.1;*  
*Eff. October 1, 2009; 2009;*  
*Readopted Eff. January 1, 2019.*

REQUEST FOR TECHNICAL CHANGE

AGENCY: Environmental Management Commission

RULE CITATION: 15A NCAC 13B .0838

**DEADLINE FOR RECEIPT: Friday, December 7, 2018**

**PLEASE NOTE: This request may extend to several pages. Please be sure you have reached the end of the document.**

*In (a)(10), please delete "clearly."*

*In (a)(14), please delete "adequately"*

*In (a)(19), please check you cross-reference to (a)(15). Is this correct?*

*In (a)(20), please change "their" to "his or her"*

*In (b)(7), what is considered to be "highly variable material"? Is this an industry term?*

*In (b)(9), when would an adjusted rate be approved? I assume that this is set forth elsewhere in rule or statute?*

*In (d), how will it be determined whether approval will be granted? What factors will be used in making this determination?*

Please retype the rule accordingly and resubmit it to our office at 1711 New Hope Church Road, Raleigh, North Carolina 27609.

Amber May  
Commission Counsel  
Date submitted to agency: November 28, 2018

1 15A NCAC 13B .0838 is readopted as published in 33:04 NCR 404 as follows:

2  
3 **15A NCAC 13B .0838 MANAGEMENT OF SEPTAGE LAND APPLICATION SITES**

4 (a) General requirements for septage land application ~~sites~~; sites shall include the following:

- 5 (1) ~~Only~~ only domestic septage, as defined in G.S. 130A-290, shall be land applied or otherwise placed  
6 on a septage land application site, unless specified in the permit;
- 7 (2) ~~Each~~ each site shall be posted with visible and legible "NO TRESPASSING" signs. ~~Access~~ All  
8 access roads or paths crossing or leading to the disposal area shall be posted "NO TRESPASSING"  
9 and a visible and legible sign ~~of at least two feet by two feet~~ stating "SEPTAGE LAND  
10 APPLICATION SITE" shall be maintained at each entrance to the land application area;
- 11 (3) ~~Each~~ each site shall have an all weather access road;
- 12 (4) ~~No~~ no hazardous wastes shall be permitted on the site;
- 13 (5) ~~No~~ no site shall be permitted for land application of industrial or commercial septage unless the  
14 applicant demonstrates to the Division that the strength of the organic and inorganic components of  
15 the septage is within the normal range for domestic septage;
- 16 (6) ~~Treatment Plant Septage~~ treatment plant septage generated by the operation of a wastewater system  
17 permitted under Article 11 of Chapter 130A may be land applied at a septage land application site  
18 permitted under this Section;
- 19 (7) ~~Septage~~ septage shall be applied to the surface of the land from a moving vehicle ~~in such a manner~~  
20 ~~as~~ to have no standing liquid or soil disturbance resulting from the waste flow after the discharge is  
21 complete;
- 22 (8) ~~Septage~~ septage shall not be applied to a site if any liquid is ponded on the site or if the site is  
23 flooded, frozen, or snow covered;
- 24 (9) ~~Septage~~ septage shall not be applied to a site if the application method will result in ruts greater than  
25 three inches in the soil surface;
- 26 (10) ~~Disposal~~ disposal area boundaries shall be ~~clearly~~ marked on the ground while a site or any portion  
27 of a site is in ~~use~~; use. Markers shall be of adequate height and spacing such that they are clearly  
28 visible for determining the disposal boundaries when the site is in use;
- 29 (11) ~~All~~ all septage discharges shall be made at a location on the site consistent with the nutrient  
30 management plan;
- 31 (12) ~~All~~ all septage discharges, including aerial drift from discharges, shall be made within the permitted  
32 boundaries of the land application site;
- 33 (13) ~~Land~~ land application of septage shall be limited to a maximum daily hydraulic application rate of  
34 one acre inch;
- 35 (14) ~~Grease septage from a grease trap, interceptor, separator, or other appurtenance used for the purpose~~  
36 ~~of removing cooking oils, fats, grease, and food debris from the waste flow generated from food~~  
37 ~~handling, preparation, and cleanup shall not be land applied unless the trap has been pumped within~~

1 ~~the last 90 days or the grease septage adequately screened or dewatered to prevent damage to land~~  
2 ~~application site vegetation;~~

3 ~~(14)(15)~~ Grease ~~grease~~ septage shall be diluted at least 1:1 from its concentration when pumped with  
4 domestic septage or water if land applied over perennial vegetation. This dilution shall be increased  
5 if crop damage occurs. This dilution requirement shall not apply to the liquid portion of grease  
6 septage that has been adequately treated to remove solids, fats, ~~oils~~ oils, and grease as long as crop  
7 damage does not occur;

8 ~~(15)(16)~~ Solids ~~solids~~ resulting from septage treatment shall not be land applied unless the solids are treated  
9 to meet pathogen reduction and vector attraction reduction requirements in 40 CFR 503, and the  
10 permittee has ~~satisfactorily~~ demonstrated to the Division that the solids ~~can be evenly land applied~~  
11 will be land applied with uniform distribution over the entire permitted application area at  
12 agronomic rates with standard agricultural spreading equipment;

13 ~~(16)(17)~~ The ~~the~~ site shall be managed ~~in such a manner as~~ to minimize soil erosion and surface water runoff.  
14 Appropriate soil and water management practices shall be implemented and maintained in  
15 accordance with the ~~Division approved~~ erosion and run-off ~~control plan.~~ management plan  
16 submitted in accordance with Rule .0835(c)(14) of this Section. All water control structures shall be  
17 designed, installed, and maintained to control the run-off resulting from a 10-year storm;

18 ~~(17)(18)~~ Approved ~~approved~~ nutrient management plans shall be followed;

19 ~~(18)(19)~~ Land ~~land~~ application sites or portions of land application sites that do not follow the approved  
20 nutrient management plan shall not be used for land application until brought into compliance with  
21 the nutrient management plan;

22 ~~(20)~~ ~~alternate plan for the storage or disposal of septage during periods when the permitted land~~  
23 ~~application site is not available;~~

24 ~~(19)(21)~~ Land ~~land~~ application sites permitted for the management of grease septage, or commercial or  
25 industrial septage, shall have a septage detention facility available, of adequate size to meet the  
26 requirement of Subparagraph (a)(15) of this Rule; and

27 ~~(20)(22)~~ A ~~a~~ septage land application site permit holder or operator is responsible for the actions of any  
28 septage management firm that the permit holder or operator allows to use their ~~his~~ land application  
29 site.

30 (b) Maximum land application rates for septage shall be determined based upon the following:

31 (1) ~~Domestic~~ domestic septage land application rates shall be in accordance with 40 CFR ~~Part~~  
32 503.12(c);

33 (2) ~~Land~~ land application of domestic treatment plant septage shall not exceed the rate in 40 CFR  
34 503.14(d);

35 (3) ~~Pollutant~~ pollutant limits for regulated metals in 40 CFR ~~part~~ 503.13 shall not be exceeded for any  
36 type of septage;

- (4) ~~Grease grease~~ septage shall be land applied at a rate that is equal to or less than the agronomic rate, but in no case shall the application of untreated grease septage exceed 25,000 gallons per acre per year;
- (5) ~~Sites sites~~ permitted for the land application of grease septage shall meet the requirements of 40 CFR ~~Part~~ 257.3-5;
- (6) ~~Land land~~ application rates for septage treated to reduce solids, nutrients, or pollutants shall be determined based on the analysis of the treated material;
- (7) ~~At at~~ least four analyses of treated liquid shall be required prior to receiving an adjusted land application rate. Additional samples shall be required for highly variable material;
- (8) ~~Each each~~ analysis shall include nitrogen panel, phosphorus, potassium, soluble salts, pH, and regulated metals except mercury, calcium, manganese, magnesium, iron, sulfur, boron and chlorine;
- (9) ~~After after~~ an adjusted rate is approved, sampling shall be required every 60 days for the initial ~~first~~ 12 months of operation;
- (10) ~~After after~~ the initial 12 months, wastes with consistent sample results shall be sampled quarterly; and
- (11) ~~Land land~~ application rates for industrial or commercial septage, or commercial or industrial treatment plant septage shall be determined as specified in Subparagraphs (b)(1) and (b)(2) of this Rule unless testing determines that a lower rate is necessary due to other non-domestic pollutants.
- (c) Septage treatment standards:
- (1) ~~Domestic domestic~~ septage shall be treated in accordance with the requirements in 40 CFR ~~Part~~ 503 Subpart D (including Appendix A and B) except that 503.33(b)(11) is not incorporated;
- (2) ~~Grease grease~~ septage, treated grease septage, ~~commercial or industrial~~ or commercial treatment plant septage, and ~~commercial/industrial~~ industrial or commercial septage shall be treated in accordance with 40 CFR 257.3-6 or treated by an equivalent or more stringent process in 40 CFR 503 ~~Subpart~~ D;
- (3) ~~Grease grease~~ septage, or any part of grease septage, mixed with domestic septage shall be treated as grease septage; and
- (4) ~~Domestic domestic~~ treatment plant septage shall be treated to meet the pathogen reduction and the vector attraction reduction requirements in 40 CFR ~~503, Subpart~~ 503 D.
- (d) No one other than the permit holder shall land apply septage at a permitted site unless approved in writing by the Division. The permit holder shall submit a written request and written authorization from the landowner(s), if different from the permit holder. The request shall include the name of the firm requesting approval and the type and amount of septage proposed to be discharged.
- (e) Permit holders of septage land application sites shall develop and maintain records and reports to demonstrate compliance with this Section and the permit requirements of each site.
- (1) ~~Permit permit~~ holders of sites receiving septage shall maintain a log which meets the requirements of 40 CFR ~~Part~~ 503.17(b);

- 1           (2) ~~Permit permit~~ holders of all septage land application sites shall have all records and certifications  
2           ~~and test results~~ required in accordance with this Section ~~to be kept~~ available for review during ~~any~~  
3           ~~announced site~~ inspections by the Division or upon the Division's request; ~~Division~~; and
- 4           (3) ~~The the~~ permit holder of a site where more than one septage management firm has been authorized  
5           by the Division to discharge septage shall submit a monthly report to the Division that ~~which~~ shall  
6           include the following information for each discharge: the date and quantity of each discharge, the  
7           type of septage discharged, and the name of the septage management firm discharging.
- 8           (4) ~~All test results for nutrients, metals, contaminants, and pathogens required in this Section shall be~~  
9           ~~maintained by the site operator or the preparer.~~
- 10       (f) Septage shall not be land applied at a new septage land application site until a representative of the Division has  
11       inspected the site to determine compliance with these rules and consistency with the permit application and all permit  
12       conditions.
- 13       ~~(g) Methods of land application for which there are no standards in these rules shall be permitted only if it can be~~  
14       ~~demonstrated that the proposed method manages septage in a manner at least equivalent to these Rules and to protect~~  
15       ~~public health and the environment. Plans shall be submitted and prepared in accordance with professional engineering~~  
16       ~~principles.~~
- 17
- 18       History Note:     Authority G.S. 130A-291.1;  
19                               Eff. October 1, 2009; 2009;  
20                               Readopted Eff. January 1, 2019.



1 15A NCAC 13B .0839 is readopted as published in 33:04 NCR 404 as follows:

2  
3 **15A NCAC 13B .0839 RECORD KEEPING FOR SEPTAGE MANAGEMENT FIRMS**

4 (a) Each permit holder shall maintain a log ~~which~~ that includes ~~at least~~ the following information for each septage  
5 pumping event:

6 (1) ~~The~~ the date, type, quantity, and location of septage ~~pumped; pumped;~~ pumped; the location for tanks shall  
7 be a street address and the location for portable toilets shall be a route; and

8 (2) ~~Location~~ location of the discharge of the septage.

9 (b) A septage management firm shall make all ~~records~~ records, documents, or logs required in accordance with this  
10 Section or conditions of the permit available for ~~inspection by a representative of~~ review by the Division at the time  
11 and place of an inspection of the firm's septage pumper truck(s) or upon the Division's request.

12  
13 *History Note: Authority G.S. 130A-291.1;*

14 *Eff. October 1, ~~2009~~. 2009;*

15 *Readopted Eff. January 1, 2019.*

1 15A NCAC 13B .0840 is readopted as published in 33:04 NCR 404 as follows:

2  
3 **15A NCAC 13B .0840 SAMPLING AND ANALYSIS**

4 (a) Monitoring or sample collection, ~~handling~~, ~~handling~~ and analysis required by this ~~Section~~, Section and all costs  
5 ~~involved, are involved~~ shall be the responsibility of the septage management firm permit holder.

6 (b) The permit holder of a septage land application site shall obtain representative soil samples once every two years  
7 from each field, as designated in permit, during the last quarter of the calendar year.

8 (c) Soil samples shall be analyzed for cation exchange capacity, pH, phosphorus, potassium, calcium, manganese,  
9 magnesium, zinc, and copper. If the results for zinc analysis are equal to or above 30 pounds per acre or the results  
10 for copper analysis are equal to or above 35 pounds per acre, analysis for the metals listed in Rule .0835(c)(10)(B) of  
11 this Section shall be required. Sites permitted to receive septage other than domestic septage shall be analyzed for  
12 cadmium to determine compliance with 40 CFR 257.3-5.

13 (d) Domestic septage and grease septage shall be monitored in accordance with 40 CFR ~~Part~~ 503.16(b).

14 (e) Domestic treatment plant septage proposed to be land applied at a permitted septage land application site shall be  
15 sampled before the initial application, and annually thereafter, prior to being removed from a treatment facility.  
16 Samples shall be analyzed for:

17 (1) Metals listed in 40 CFR 503.13; and

18 (2) Total solids, pH, ammonia, nitrates, total kjeldahl nitrogen (TKN), biochemical oxygen demand  
19 (BOD), chemical oxygen demand (COD), total phosphorus, potassium, sodium, and magnesium.

20 (f) Industrial or commercial septage proposed to be land applied at a permitted septage land application site shall be  
21 sampled prior to being removed from a wastewater system. Analytical results shall be submitted to the Division prior  
22 to the issuance of a permit or approval to land apply the septage. Samples shall be analyzed for:

23 (1) Metals listed in 40 CFR 503.13;

24 (2) Total solids, pH, ammonia, nitrates, TKN, BOD, COD, total phosphorus, potassium, sodium, and  
25 magnesium; and

26 (3) Organic chemicals, using a complete EPA Test Method 1311 Toxicity Characteristic Leaching  
27 Procedure or other appropriate analysis, such as EPA Test Method 8260 Volatile Organic  
28 Compounds by Gas Chromatography/Mass Spectrometry or 8270 Semivolatile Organic Compounds  
29 by Gas Chromatography/Mass Spectrometry, unless an examination of the industrial process and  
30 the material used indicates less extensive analysis is acceptable.

31 (g) Sample analysis required by this Section shall be performed either by the North Carolina Department of  
32 Agriculture and Consumer Services laboratory or by a laboratory certified by the North Carolina Division of Water  
33 Resources for waste analysis. Analysis for inorganic constituents shall be conducted in accordance with 40 CFR ~~Part~~  
34 503.8.

35  
36 *History Note: Authority G.S. 130A-291.1;*  
37 *Eff. October 1, 2009;*

- 1                    *Amended Eff. May 1, ~~2017~~ 2017;*
- 2                    *Readopted Eff. January 1, 2019.*

## REQUEST FOR TECHNICAL CHANGE

AGENCY: Environmental Management Commission

RULE CITATION: 15A NCAC 13B .0841

**DEADLINE FOR RECEIPT: Friday, December 7, 2018**

**PLEASE NOTE:** *This request may extend to several pages. Please be sure you have reached the end of the document.*

*In (a), please consider ending lines 6-9 after “such increases;” If not, please change your semi-colon to a period and begin the next line as a new sentence with “The division shall notify”*

*In (b), is the requirement that each site have an all weather access road currently in rule or statute and it was just moved here? Why was this added after publication?*

*In (c), what is meant by “structurally sound”? Please delete or define.*

*In (f)(1), in order to match the introductory language, please consider revising as follows:*

(f) Septage detention and treatment facilities located below grade shall:

- (1) ~~If if required by G.S. 89C, a professional engineer shall certify that the construction was~~ *be* completed in substantial compliance with the plans and specifications prior to any waste being introduced into the system. ~~If required by G.S. 89C, a professional engineer shall certify this compliance.~~ [Note: The North Carolina Board of Examiners for Engineers and Surveyors, has determined, via letter and resolution dated March 11, 2010, that certification of documents pursuant to this Paragraph constitutes practicing engineering, under G.S. 89C.];

*In (f)(3), please change “are allowed to be located” to “may be located”*

*In (j), please delete “safe and sanitary” Is this set forth elsewhere?*

*In (l), please change “shall not jeopardize” to “does not jeopardize”*

*In (l)(2), I don’t understand the cross-reference to (f)(1). Is this saying that below grade lagoons are okay if found to be in substantial compliance by a PE?*

*In (l)(9), please delete or define “appropriate”*

*In (o), I understand that this determination will be made on a case-by-case basis, but how? What factors will be used?*

*In (p)(2), what is meant by “sanitary condition”? Is this set forth elsewhere in rule or statute?*

Please retype the rule accordingly and resubmit it to our office at 1711 New Hope Church Road, Raleigh, North Carolina 27609.

Amber May  
Commission Counsel  
Date submitted to agency: November 28, 2018

1 15A NCAC 13B .0841 is readopted as published in 33:04 NCR 404 as follows:

2  
3 **15A NCAC 13B .0841 STANDARDS FOR SEPTAGE DETENTION AND TREATMENT FACILITIES**  
4 **FACILITIES**

5 (a) Septage detention ~~facilities,~~ facilities used to meet the requirements of Rule ~~.0838(a)(19) .0838(a)(20) or (21)~~ of  
6 this ~~Section,~~ Section shall have a minimum size equal to two percent of the maximum annual application rate. The  
7 Division shall increase the minimum size requirement for any increase in the maximum annual application rate or if  
8 it is demonstrated during site operation that this volume is inadequate or if specific site considerations would warrant  
9 such increases; and shall notify the owner or operator of the facility of the increase. ~~the average volume of septage~~  
10 ~~pumped per week.~~ This Paragraph does not limit the maximum capacity of a septage detention facility. ~~Capacity shall~~  
11 ~~be increased if it is demonstrated during site operation that this volume is inadequate or if specific site considerations~~  
12 ~~would warrant such increases.~~

13 (b) Each site shall have an all weather access road. ~~Septage detention facilities for sites permitted to land apply in~~  
14 ~~excess of 50,000 gallons per acre per year shall have a minimum size equal to two percent of the maximum annual~~  
15 ~~application rate. Facilities permitted as of the effective date of this rule shall have 12 months to meet this requirement.~~

16 (c) Septage treatment and detention facility containers shall be structurally sound and constructed of steel, concrete,  
17 plastic, or fiberglass. If required by G.S. 89C, plans and specifications for proposed containers constructed of materials  
18 not specifically addressed in this Rule shall be prepared by a professional engineer. [Note: The North Carolina Board  
19 of Examiners for Engineers and Surveyors, has determined, via letter and resolution dated March 7, 11, 2010, that  
20 certification of documents pursuant to this Paragraph constitutes practicing engineering, under G.S. 89C.]

21 (d) A septage treatment and detention facility ~~Treatment and Detention Facility~~ permit holder and operator ~~are~~ shall  
22 be responsible for the actions of any septage management firm that uses the detention or treatment facility.

23 (e) Each detention and treatment facility shall be designed, constructed, and maintained ~~in such a manner as to:~~

- 24 (1) ~~Prevent prevent~~ leaks or the flow of septage out of the facility into the seasonally high water table,  
25 onto the ground surface, or into any surface waters;  
26 (2) ~~Minimize minimize~~ the attraction or admittance of vectors; and  
27 (3) ~~Prevent prevent~~ unauthorized entry into septage containers or lagoons.

28 (f) Septage detention and treatment facilities located below grade shall:

- 29 (1) ~~If~~ if required by G.S. 89C, a professional engineer shall certify that the construction was completed  
30 in substantial compliance with the plans and specifications prior to any waste being introduced into  
31 the system. [Note: The North Carolina Board of Examiners for Engineers and Surveyors, has  
32 determined, via letter and resolution dated March 11, 2010, that certification of documents pursuant  
33 to this Paragraph constitutes practicing engineering, under G.S. 89C.];  
34 (2) ~~Be~~ be constructed to a traffic rated standard or protected from vehicular traffic; and  
35 (3) ~~Not not~~ be constructed of used metal tanks. Used metal tanks are allowed to be located beside a wall  
36 or embankment for gravity access as long as the entirety of the tank is visible.

(g) The permit holder of a septage treatment or detention facility shall ~~control~~ minimize odors from the facility at the property boundary.

(h) ~~Ground-water~~ The Division may require that groundwater monitoring wells or a leak detection system ~~may be required be installed~~ around treatment or detention systems ~~if necessary to assure~~ for protection of public health and the ~~environment.~~ environment if there is evidence of a leaking tank.

(i) The area around tanks shall be free of debris and vegetation to allow for access and inspection for a distance of ~~at least~~ 5 feet.

(j) Septage shall be transferred to and from a detention system in a safe and sanitary manner that prevents leaks or spills of septage, including septage in pipes used for transferring waste to and from vehicles.

(k) Access roads or paths crossing or leading to the facility shall be posted with "NO TRESPASSING" signs.

(l) Requirements for lined lagoons:

(1) Lined lagoons shall be permitted only at sites where the construction and use of a lagoon shall not jeopardize the public health or environment.

(2) Portions of lined lagoons may be located below grade in accordance with Subparagraph (f)(1) of this Rule.

(3) Only lagoons designed, constructed and inspected in accordance with accepted engineering principles providing for the protection of the underlying groundwater will be considered for use in a septage treatment or detention system. If required by G.S. 89C, a professional engineer shall certify that the construction was completed in substantial compliance with the plans and specifications prior to any waste being introduced into the system. [Note: The North Carolina Board of Examiners for Engineers and Surveyors, has determined, via letter and resolution dated March 11, 2010, that certification of documents pursuant to this Paragraph constitutes practicing engineering under G.S. 89C.]

(4) Liners shall be a minimum of 12 inches of clay compacted to a maximum permeability of  $10^{-7}$  cm/sec or equivalent synthetic liner.

(5) Synthetic liners shall have a minimum thickness of 30 mils. A synthetic liner shall have a demonstrated water vapor transmission rate of not more than 0.03 gm/m<sup>2</sup>/day. Liner material and any seaming materials shall have chemical and physical resistance not adversely affected by environmental exposure or waste placement.

(6) Clay liners with a permeability more than  $10^{-7}$  cm/sec may be used in conjunction with a synthetic liner to meet the maximum permeability of  $10^{-7}$  cm/sec or equivalent.

(7) The surface of the supporting soil on which the liner will be installed shall be ~~reasonably~~ free of stones, organic matter, protrusions, loose soil, and any abrupt changes in grade that could affect the integrity of the liner.

(8) Lagoons shall be designed and maintained to have adequate storage to handle the additional water from a 25-year storm.

- (9) Lagoons shall be protected from entry by unauthorized individuals by fencing or other appropriate means.
- (m) Septage detention and treatment facilities shall adhere to the following minimum setback requirements:
- (1) ~~Residence,~~ residence, place of business, ~~except septage firm business,~~ or place of public assembly – 100 feet;
  - (2) ~~Well~~ well or water supply spring – 100 feet;
  - (3) ~~Surface~~ surface waters – 100 feet;
  - (4) ~~Property~~ property lines – 50 feet;
  - (5) ~~Facilities~~ facilities permitted after ~~April 1, 2010 the effective date of this Rule~~ shall not be located in the 100-year flood plain hazard ~~area-~~ area;
  - (6) ~~Soil~~ soil wetness, as determined in ~~Part (a)(3)(A) of Rule .0837~~ .0837(a)(3)(A) of this Section – 12 inches;
  - (7) ~~Setbacks~~ setbacks in Subparagraphs (1) and (4) of this Paragraph may be in accordance with local zoning ordinances if located in areas zoned for industrial ~~use-~~ use;
  - (8) ~~Setbacks~~ setbacks in Subparagraphs (1) through (4) of this Paragraph shall be increased 100% for lagoons; and
  - (9) ~~Accurate~~ accurate property line location ~~is~~ shall be the responsibility of the site operator.
- (n) ~~All setbacks shall be maintained. At the time of initial permitting, septage detention and treatment facilities shall observe the minimum setback distances specified in this Rule. Minimum setbacks shall be maintained throughout the life of the facility only on land owned, operated, or controlled by the permittee or by the landowner(s) at the time of initial permitting. Any sale, lease, or other conveyance of land by the permittee, or by the landowner(s) if different from the permittee, subsequent to the initial permitting of the facility shall include restrictions to ensure continued maintenance of the setbacks.~~
- (o) The setbacks in Subparagraph (m)(1) through (4) of this Rule shall be increased for storage facilities with a capacity in excess of 25,000 gallons permitted after ~~April 1, 2010 the effective date of this Rule~~ to prevent offsite contamination from major spills, or 100% containment shall be provided. Increased setbacks shall be ~~up to~~ twice the minimum distance as indicated in Subparagraph (m)(1) through (4) of this ~~Rule.~~ Rule, unless the permitted ~~Permitted~~ volume and the proximity to residences, wells or water supply springs, surface waters, ~~and or~~ or property lines dictate a reduced setback determined by the Division on a case-by-case basis. ~~will determine the setback.~~
- (p) Storage containers for individual restaurants shall be:
- (1) ~~Located~~ located above grade and protected from vehicular traffic;
  - (2) ~~Maintained~~ maintained to be impervious to flies ~~fly-tight~~ and in a sanitary condition;
  - (3) ~~Placed~~ placed at a location and acceptable to ~~standards and~~ determined by the local health department and the NC Department of Health and Human Services; NC Division of Environmental Health; and
  - (4) ~~No~~ no greater than 200 gallons in size.

(q) Setbacks for detention tanks at marinas may be reduced for storage capacity of 2000 gallons or less when the facility is designed to prevent leaks or spills or has containment equaling 100% of the storage volume plus rainfall from a 25-year storm event. Setbacks shall in no case be less than what is approved by applicable local government, ~~state~~ State, or federal laws or rules.

(r) Permit holders of all septage detention and treatment facilities shall have all records required in accordance with this Section available for review during inspections by the Division or upon the Division's request. ~~Septage shall not be stored in a detention or treatment facility for more than six months.~~

(s) Septage shall not be stored or treated at a new septage treatment or detention facility until a representative of the Division has inspected the facility to determine compliance with these Rules and consistency with the permit application and all permit conditions.

(t) Septage detention and treatment facility closure shall include:

(1) a written notification of cease of operations submitted to the Division that shall include the permit number, the date of cease of operations, and the signature of the operator; ~~A completed ceased operation form submitted to the Division;~~

(2) ~~All~~ all liquids and solids, resulting from septage detention or treatment, removed from all portions of the facility and ~~properly~~ managed or disposed at an ~~appropriate~~, approved facility; and

(3) ~~All~~ all parts of the facility removed from property under separate ownership, unless all landowners provide the Division with written documentation that the facility may remain at the site.

(u) Record keeping for detention facilities that receive septage from more than one septage management firm shall include:

(1) ~~The~~ the date that the septage is received at and removed from the facility;

(2) ~~Name~~ name of the septage management firm that delivered the septage;

(3) ~~Type~~ type and amount, in gallons, of septage received; and

(4) ~~Where~~ where septage is discharged.

(v) Record keeping for treatment facilities shall include:

(1) ~~Date~~ date septage is received at the facility;

(2) ~~Name~~ name of the septage management firm that delivered the septage;

(3) ~~Type~~ type and amount, in gallons, of septage received;

(4) ~~Date~~ date processed material(s) is removed from the facility;

(5) ~~Type~~ type and amount, in tons or gallons, of material removed from the facility; and

(6) ~~Management~~ management methods for each type of material removed by the ~~facility~~, facility

(w) Alarms shall be required to detect high liquid levels, leaks and spills, or system operation parameters at detention or treatment facilities when the location, design, capacity, or operational complexities of the facility warrant the additional safety precautions.

*History Note: Authority G.S. 130A-291.1;*

*Eff. April 1, ~~2010~~; 2010;*





1 15A NCAC 13B .0842 is readopted as published in 33:04 NCR 404 as follows:

2  
3 **15A NCAC 13B .0842 INNOVATIVE OR ALTERNATIVE TREATMENT OR STORAGE METHODS**

4 (a) Applications for permits for innovative or alternative ~~treatment~~ treatment, storage, or land application methods  
5 that do not fit the criteria outlined in this ~~section will~~ Section shall be reviewed in accordance with ~~N.C.G.S. G.S.~~  
6 130A-291.1(i).

7 (b) Applications shall include: ~~If required by G.S. 89C, a professional engineer shall prepare these documents. [Note:~~  
8 ~~The North Carolina Board of Examiners for Engineers and Surveyors has determined, via letter dated March 11, 2010,~~  
9 ~~that preparation of engineering design documents for alternative treatment methods that do not fit the criteria outlined~~  
10 ~~in this Section constitutes practicing engineering under G.S. 89C.]~~

11 (1) ~~The~~ the information required in Rule .0836(c) of this Section;

12 (2) ~~An~~ an operation and maintenance manual consistent with the requirements of Rule .0836(e)(4) of  
13 this Section; Rule .0836(e)(4);

14 (3) ~~Means~~ means of demonstrating that the proposed method of treatment or storage will meet the  
15 appropriate standards for vector attraction reduction and pathogen reduction in this Section; and

16 (4) ~~Testing~~ testing methods and schedule to document Subparagraph (3) of this Paragraph.

17 If required by G.S. 89C, a professional engineer shall prepare these documents. [Note: The North Carolina Board of  
18 Examiners for Engineers and Surveyors has determined, via letter dated March 11, 2010, that preparation of  
19 engineering design documents for alternative treatment methods that do not fit the criteria outlined in this Section  
20 constitutes practicing engineering under G.S. 89C.]

21 (c) Innovative or alternative design criteria shall be approved in cases where the applicant can demonstrate that the  
22 alternative design criteria will provide the following:

23 (1) ~~Equal~~ equal or better treatment of the waste;

24 (2) ~~Equal~~ equal or better protection of the waters of the state; and

25 (3) ~~No~~ no increased potential for nuisance conditions from noise, ~~odor~~ odor, or vermin.

26  
27 *History Note: Authority G.S. 130A-291.1;*

28 *Eff. April 1, 2010; 2010;*

29 *Readopted Eff. January 1, 2019.*

## REQUEST FOR TECHNICAL CHANGE

AGENCY: Environmental Management Commission

RULE CITATION: 15A NCAC 13B .0843

**DEADLINE FOR RECEIPT: Friday, December 7, 2018**

**PLEASE NOTE: This request may extend to several pages. Please be sure you have reached the end of the document.**

*In (a), rather than “adherence to the site restrictions in 40 CFR 503.32 shall be required”, say something like “Upon closure of a land application site permitted in accordance with this Section, the site shall meet all requirements set forth in 40 CFR 503.32.”*

*Is (c) necessary given that you’ve already included all requirements of 40 CFR 503.32 in (a)? This appears to be repetitive.*

*In (e), what is the requirement if the fertility requirements for crops dictate less? Is the requirement then whatever the fertility requirement is? Perhaps this is simply because I don’t fully understand the process, but this appears to have a potential ambiguity issue.*

*Also, how do the pH requirements in 40 CFR 503.32 and (e) go together? Since all of 40 CFR 503.32 have been incorporated in (a), I’m a bit confused as to how all of this goes together.*

Please retype the rule accordingly and resubmit it to our office at 1711 New Hope Church Road, Raleigh, North Carolina 27609.

Amber May  
Commission Counsel  
Date submitted to agency: November 28, 2018

1 15A NCAC 13B .0843 is readopted as published in 33:04 NCR 404 as follows:

2  
3 **15A NCAC 13B .0843    LAND APPLICATION SITE LAND USE AND SITE CLOSURE**

4 (a) ~~Adherence~~ Upon closure of a land application site permitted in accordance with this Section, adherence to the site  
5 restrictions in 40 CFR 503.32 ~~503.32(e) of Subpart D~~ shall be required.

6 (b) Nursery and horticultural products, trees and other forest products, ~~including but not limited to~~ such as pine straw  
7 and pine bark, shall not be harvested or gathered for 30 days after septage application.

8 (c) Public access is to be controlled in accordance with 40 CFR 503.32. ~~40 CFR 503.32(e) of Subpart D~~.

9 (d) The permit holder or operator of the site shall submit a written notification to ~~notify~~ the Division at least 30 days  
10 prior to final closure of a septage land application site in order to schedule a site inspection for determination of  
11 compliance with this Section. The notification shall include the permit number, the date of cease of operations, and  
12 the signature of the operator.

13 (e) Prior to final closure, the soil pH of the site shall be raised to 6.5, unless the fertility requirements for crops to be  
14 grown in the following year dictate less.

15  
16 *History Note:     Authority G.S. 130A-291.1;*

17 *Eff. October 1, ~~2009~~. 2009;*

18 *Readopted January 1, 2019.*  
19

REQUEST FOR TECHNICAL CHANGE

AGENCY: Environmental Management Commission

RULE CITATION: 15A NCAC 13B .0844

**DEADLINE FOR RECEIPT: Friday, December 7, 2018**

**PLEASE NOTE: This request may extend to several pages. Please be sure you have reached the end of the document.**

*In (a)(3), what is meant by “good repair”? Is this defined elsewhere?*

*In (b), line 22, please delete “clearly”*

Please retype the rule accordingly and resubmit it to our office at 1711 New Hope Church Road, Raleigh, North Carolina 27609

Amber May  
Commission Counsel  
Date submitted to agency: November 28, 2018

1 15A NCAC 13B .0844 is readopted as published in 33:04 NCR 404 as follows:

2  
3 **15A NCAC 13B .0844 TRANSPORTATION OF SEPTAGE**

4 (a) ~~Vehicles used for the transportation of septage shall be operated and maintained to prevent~~ All septage shall be  
5 ~~transported in a safe, sanitary manner that prevents~~ leaks and spills of septage and shall comply with the following:

6 (1) ~~All~~ all tanks shall be constructed of metal and ~~permanently attached~~ affixed to the truck ~~bed~~ with  
7 permanent fixtures such as bolts; ~~bed, unless otherwise approved by the Division;~~

8 (2) ~~All~~ all valves shall be in ~~proper~~ working order and be ~~completely~~ closed during transportation;

9 (3) ~~All~~ all access ports shall have ~~proper fitting~~ lids in good repair and ~~be completely closed~~ scaled  
10 during transportation;

11 (4) ~~Portable~~ portable toilet pump units that slide into pickup truck beds shall be bolted to the trucks in  
12 accordance with manufacturer specifications;

13 (5) ~~Boats~~ boats used to pump or transport septage shall be United States Coast Guard approved or  
14 engineered construction plans shall be available indicating that the specific craft is stable in the  
15 water when fully loaded; loaded with septage, and if required by G.S. 89C, a professional engineer  
16 shall prepare these documents; and

17 (6) ~~Tanks~~ tanks that are mounted on trailers for the pumping or transportation of septage shall meet all  
18 applicable state State and federal requirements for highway use.

19 (b) All permitted septage management firms shall display ~~decals or~~ lettering on each side of every pumper vehicle  
20 operated by the firm. The ~~decals or~~ lettering shall include the firm name, ~~address (town name),~~ town name, phone  
21 number, and septage management firm permit ~~number.~~ number as shown on the firm application. All ~~decals or~~ lettering  
22 required by this Rule on the pumper vehicle shall be no less than three inches in height and plainly clearly legible and  
23 visible, not obstructed from view. Identification shall not be removable (i.e. no magnetic signs). ~~be permanently~~  
24 ~~attached (i.e., no removable signs).~~

25 (c) Applicants for septage management firm permits ~~which that~~ were not permitted in the previous calendar year shall  
26 have each pump truck inspected prior to the Division's issuance of a permit.

27 (d) Septage to be discharged at a wastewater treatment plant or any part of the collection system for that plant shall  
28 be handled in accordance with the plant rules and policies.

29 (e) All vehicles used in the transportation of septage, including spare vehicles and tankers, shall meet the requirements  
30 of this Section ~~section~~ and be included in the permit application.

31 (f) Vehicles used in the transportation of septage, that are listed on an approved septage management firm permit  
32 application, may remain loaded or partially loaded on land owned by the septage management firm for up to seven  
33 days without obtaining a permit for a detention or treatment facility. Such vehicles shall comply with ~~all parts of~~  
34 Rule.

35  
36 *History Note: Authority G.S. 130A-291.1;*

37 *Eff. October 1, 2009; 2009;*



1 15A NCAC 13B .0845 is repealed through readoption as published in 33:04 NCR 404 as follows:

2

3 **15A NCAC 13B .0845 REVOCATION OF PERMITS**

4

5 *History Note: Authority G.S. 130A-291.1;*

6 *Eff. October 1, ~~2009~~ 2009;*

7 *Repealed Eff. January 1, 2019.*



1 15A NCAC 13B .0846 is readopted as published in 33:04 NCR 404 as follows:

2  
3 **15A NCAC 13B .0846 APPEALS**

4 Appeals shall be made in accordance with Article 3 G.S. 150B.

5  
6 *History Note: Authority G.S. 130A-291.1;*

7 *Eff. October 1, ~~2009~~2009;*

8 *Readopted Eff. January 1, 2019.*