



North Carolina Department of Environment and Natural Resources
Division of Waste Management

Pat McCrory
Governor

Dexter R. Matthews
Director

John E. Skvarla, III
Secretary

STATE OF NORTH CAROLINA
DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
DIVISION OF WASTE MANAGEMENT
SOLID WASTE SECTION

**PERMIT TO OPERATE A SEPTAGE LAND
APPLICATION SITE**

Bogue Sound Septic & Grading, Inc.
Richard G. Taylor
325 Barrington Ridge
Newport, NC 28570

is hereby permitted to operate Septage Land and Application Site with permit # **SLAS-67-03** located on Hwy 24 in Onslow County at approximate position 34.71902°N latitude and -77.20329°W longitude. This site is permitted only for operations that are conducted in accordance with the representations made in the approved application, with all conditions attached to this permit, and with all of the provisions of 15A NCAC 13B.0800 -- Septage Management. Failure to operate as permitted may result in the Department suspending or revoking this permit, initiating action to enjoin the unpermitted operation, imposing administrative penalties, or invoking any other remedy as provided in Chapter 130A, Article 1, Part 2 of the North Carolina General Statutes.

This permit shall be reviewed annually to determine if soil test results and management activities are in compliance with the Septage Management Rules and the conditions of this permit. Modifications, where necessary, shall be made in accordance with rules in effect at the time of review.

Date Issued

1/30/2013

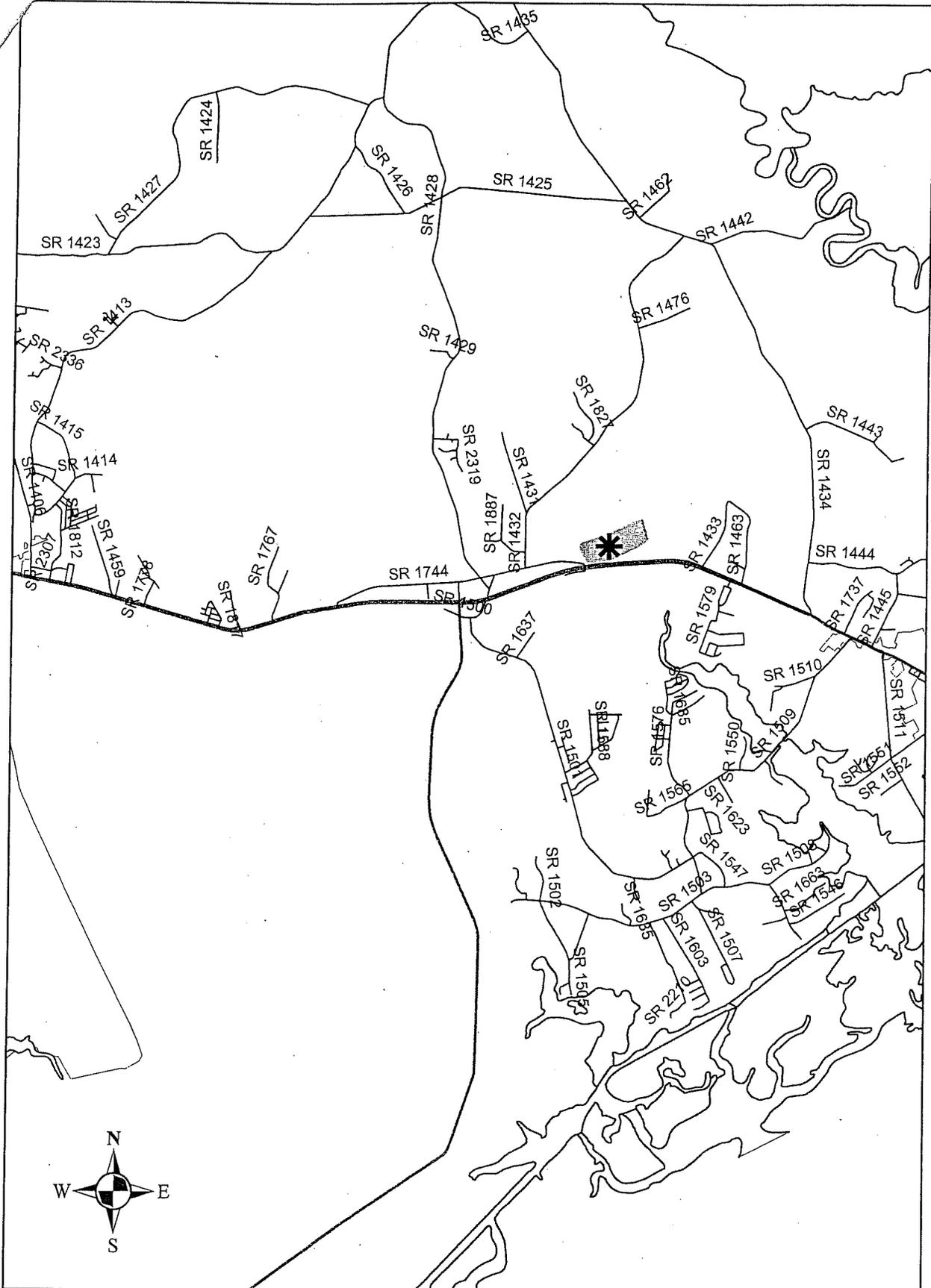
Martin A. Gallagher, Branch Head
Composting & Land Application Branch

CONDITIONS OF OPERATING PERMIT

1. This permit shall become void if the soils fail to adequately assimilate the septage and shall be rescinded unless the site is maintained and operated in a manner which will protect the assigned water quality standards both surface and ground waters.
2. This site shall be operated and maintained in accordance with the nutrient management plan submitted by Richard G. Taylor and approved by the Division of Waste Management. The 4.9-acre site shall remain established in Coastal Bermudagrass. Areas where the bermudagrass stand drops below 80% coverage shall be resprigged with Coastal Bermudagrass at a sprigging rate of 15 to 20 bu/ac in late winter or early spring. The site shall be overseeded with annual ryegrass at a rate of approximately 30 lbs/ac (broadcast) between September 15 and November 15. The Bermudagrass shall be cut and baled whenever it reaches 12 inches in height or roughly every 4 to 6 weeks beginning in June of each year and disposed of as yard debris. The ryegrass shall be cut and baled from the site beginning in February and March and disposed of as yard debris. All discharges shall be at locations on the site consistent with the crop rotation in the approved plan.
3. This site shall be operated and maintained in accordance with the erosion and runoff control plan submitted by Richard G. Taylor in such a manner as to prevent the migration of wastes off of the designated waste receiving site. A 50-ft buffer planted in bermudagrass and ryegrass shall remain around the perimeter of the permitted area. Any site improvements noted in the plan must be installed within 30 days of plan approval. The installation of groundwater monitoring wells shall be required as deemed necessary by the Division.
4. The issuance of this permit does not preclude the Permittee from complying with any and all statutes, rules, regulations, or ordinances that may be imposed by other local, state, and federal government agencies which have jurisdiction. It is the responsibility of the Permittee to be in compliance with the Federal Regulations listed in the Code of Federal Regulations, 40 CFR Part 503.
5. This permit may be modified or reissued at any time to incorporate any conditions, limitations, and / or monitoring requirements the Division deems necessary to adequately protect the environment and public health.
6. **This site is only permitted for the land application of domestic septage.** Domestic septage pH shall be raised to 12 or higher by alkali addition and, without the addition of additional alkali, shall remain at 12 or higher for 30 minutes prior to land application.

7. **This site contains approximately 4.9 acres that are available for land application of septage.** The maximum annual application rate shall be 50,000 gallons per acre per year, for a total, maximum annual application of 245,000 gallons. This application rate assumes equal septage distribution, on an annual basis, over the entire permitted area. Application amounts to the fields shall not exceed the maximum annual application rate or the monthly rates as listed in the approved nutrient management plan for the site.
8. An approved above ground septage detention system with a minimum design capacity of 5,000 gallons shall be available prior to operation of this site unless an approved wastewater treatment plant is available for use during periods of adverse weather. The storage capacity may be adjusted if it is demonstrated during the operation of the site that this volume of storage is inappropriate.
9. Only the area designated on the attached site map(s) shall be utilized for septage disposal. Each load of septage discharged at the site shall be distributed from a moving vehicle in such a manner that there is no standing water when the discharge is complete.
10. Septage shall not be applied during any precipitation event, or if there is standing water on the soil surface, if the soil surface is frozen, or if the soil surface is snow covered. The Permittee shall consider pending weather conditions when making the decision to land apply in order to prevent any discharge of septage outside of the permitted boundary.
11. Septage shall not be applied during periods of high soil moisture. Septage applications that will result in ruts greater than three inches in the soil surface are prohibited.
12. Any discharge of septage outside of the permitted boundaries via runoff, aerial drift, etc. is prohibited.
13. This permit shall become voidable unless the land application activities are carried out in accordance with the conditions of this permit and in the manner approved by this Division. No one other than the Permittee or an employee of the firm named in this permit shall discharge septage at this site without prior appropriate notification and written approval from the Division.
14. Prior to any transfer of this land, a notice shall be given to the new owner that gives full details of the materials applied or incorporated at this site. The Division shall be notified prior to site closure. This permit is non-transferable.

15. **This permit shall expire on August 25, 2017.** Modifications, when necessary, shall be made in accordance with the rules in effect at the time of renewal. An application for permit renewal shall be submitted at least ninety (90) days prior to the permit renewal date. A septage application log for the period of time this permit was valid shall be submitted along with an application for permit renewal or modification. The information required in the log is described in Rule 15A NCAC 13B .0838 (e) (1) of the NC Septage Management Rules and the Code of Federal Regulations, 40 CFR Part 503.17 (b).
16. Records shall be kept in accordance with 40 CFR 503.17(b). These records shall be made available to a representative of the Division upon request.
17. Any duly authorized officer, employee, or representative of the Division may, upon presentation of credentials, enter and inspect any property, premises, or place on or related to the disposal site and facility at any reasonable time for the purpose of determining compliance with this permit; may inspect or copy any records that must be kept under the conditions of this permit; or may obtain samples of groundwater, surface water, or leachate.
18. Field separations in the nutrient management plan and all pertinent setbacks shall be clearly located on the site. Boundaries of the permitted septage land application fields shall be clearly marked on the ground.
19. The areas that can be used for land application of septage shall be maintained at least 500 feet from any existing wells, residences, places of business, or places of public assembly. Septage shall not be disposed of within 50 feet of any property line or within 100 feet of any ditch.



SLAS 67-03

* Site located off of HWY 24 across from S&W Concrete

* Map created from road data obtained from NCDOT website.

SLAS-67-03



Source: Bing Maps aerial imagery, ESRI, (c) 2010 Microsoft Corporation and its data suppliers; site boundary, NC DENR Division of Waste Management.
Map created by NC DENR Division of Waste Management, Compost and Land Application Branch for permitting purposes only.
crc, Jan. 2013



North Carolina Department of Environment and Natural Resources
Division of Waste Management

Pat McCrory
Governor

Dexter R. Matthews
Director

John E. Skvarla, III
Secretary

March 5, 2013

Mr. Richard G. Taylor
Bogue Sound Septic & Grading, Inc.
325 Barrington Ridge
Newport, NC 28570

**RE: SLAS-67-03 permit renewal
Bogue Sound Septic & Grading, Inc.
NC 24 in Onslow County**

Dear Mr. Taylor:

The NC Division of Waste Management has reviewed your application to renew your Septage Land Application Site permit in Onslow County. Your application to operate a Septage Land Application Site has been approved in accordance with NC Septage Management Rules and your permit, identified as **SLAS-67-03** is enclosed. Please read all permit conditions carefully. The nutrient management and soil erosion and runoff control plans you submitted have been incorporated into your permit. In particular, pay close attention to **Permit Conditions 2, 6, 7, 10, 11, 12, and 15**. The following is a summation of those Conditions.

- **Condition 2.** This condition lists the size of the site and crop management details listed in the submitted nutrient management plan.
- **Condition 6.** States that this site is only permitted to receive domestic septage. Disposal of any other type of waste at this site is prohibited.
- **Condition 7.** States that there are approximately 4.9 acres available at this site for the land application of septage. **The maximum annual application rate for this site is 50,000 gallons per acre per year for a total, maximum annual application of 245,000 gallons.** These rates along with the monthly rates listed in the nutrient management plan are not to be exceeded.

CONTINUE ON BACK

- **Condition 10.** Septage shall only be applied when soil and weather conditions are favorable for application.
- **Condition 11.** Soil conditions must be monitored such that any septage application will not result in ruts greater than three inches in the soil surface.
- **Condition 12.** Any discharge, including aerial drift, of septage outside of the permitted boundaries is prohibited.
- **Condition 15.** **This permit is set to expire on August 25, 2017.** Ninety (90) days prior to the expiration of your permit, you must submit an application for permit renewal along with your septage land application logs for the entire time your current permit was valid.

Again, please pay close attention to all of the conditions within the enclosed permit. Remember that violations to the NC Septage Management Rules or this permit could subject you to administrative penalties of up to \$15,000 per violation per day. If you have any questions concerning your permits or septage in general, please do not hesitate to contact me at (919) 707-8283. When communicating to the Division about this permit, please refer to it as **"SLAS-67-03"**

Sincerely,



Chester R. Cobb, Soil Scientist
Composting & Land Application Branch

Enclosures

cc: Central Office
Kim Howard, landowner
Sharon Quinn, landowner
Will Burke, Environmental Senior Specialist
Onslow County Health Department

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APPLICATION FOR A PERMIT TO OPERATE A SEPTAGE LAND APPLICATION SITE

North Carolina Department of Environment and Natural Resources
Division of Waste Management – Solid Waste Section
401 Oberlin Rd., Ste. 150, Raleigh, N.C. 27605



I. Site and Operator Information

1. Applicant Bogue Sound Septic & Grading, Inc.
Address 325 Barrington Ridge
Newport, NC 28570
Phone (252) 393-6426

2. Contact person for site operation (if different from applicant): Richard G. Taylor/David Padgett
Title or position President/ Vice President Phone (252) 725-7200
Address 325 Barrington Ridge
Newport, NC 28570

3. Landowner Sharon Quinn/ Kimberly Howard
Address 3153 Freedom Way
Hubert, NC 28539

4. Site Location: County Onslow State Road Number Hwy 24
Directions to site: Approximately 3 miles west of Swansboro and 1 1/2 mile east of
Hwy 172 on north side of Hwy 24 (Across from S & W Concrete).

5. Indicate whether request is: new _____ renewal X modification _____

For a permit renewal or modification, provide the following information:

Existing site permit number: SLAS 67-03 permit expiration date: 08-25-12

6. Number of acres meeting the requirements of the N.C. Septage Management Rules: 5.44 acres.

7. Substances other than septage or grease trap pumpings previously disposed of on the site:
(a) None X, or (b) Attach a list indicating other substances, the amounts discharged, and the dates of discharge.

8. Attach written, notarized landowner authorization to operate a septage disposal site signed by the landowner (if the permit applicant does not own the property). ***If a corporation owns the land use a corporate landowner authorization form. If limited liability company owns the land, use a limited liability company landowner authorization form.***

9. Attach site evaluation report, including aerial photograph and soil analysis with metals results, unless the Division prepared the report.

10. Attach a vicinity map (county road map showing site location).

(over)

II. Site Management Information:

The following information shall be included with the application form:

1. Nutrient Management Plan
2. Soil Erosion and Runoff Control Plan
3. Alternative plan for disposal (detention facility permit number or wastewater treatment plant authorization): SDTF 16-06
4. Types of septage proposed to be discharged at the site (check all that apply):
 - (a) Domestic septage pumped from septic tanks X
 - (b) Grease trap pumpings _____
 - (c) Portable toilet waste _____
 - (d) Commercial / Industrial septage _____
5. Proposed treatment method of each type of septage to be land applied (use additional paper to explain if necessary): Lime stabilization to a PH level of 12 for 30 minutes before application.

6. Proposed method of applying septage to land, including septage distribution plan if required * (use additional paper to explain if necessary): Septage will be applied from truck through a spreader
Applying sewage to a width of 16ft. or wider to avoid puddling.

7. Demonstration from the appropriate state or federal government agency that the land application site complies with the Endangered Species Law ** or if any part of the site specified is not agricultural land (use additional paper to explain if necessary): None

III. Certification

I hereby certify that:

1. The information provided on this application is true, complete, and correct to the best of my knowledge.
2. I have read and understand the N.C. Septage Management Rules, and
3. I am aware of the potential consequences, including penalties and permit revocation, for failing to follow all applicable rules and the conditions of a Septage Land Application Site permit.



Signature***

3-28-2012

Date

Richard G. Taylor

Print name

President

Title

Note: This application will not be reviewed until all parts of the application are complete.

* Refer to Section .0821(e) of the N.C. Septage Management Rules.

** Refer to Section .0821(g) of the N.C. Septage Management Rules.

***Signature of company official required.

Landowner's Authorization to Operate a Septage Land Application Site

North Carolina Department of Environment and Natural Resources
Division of Waste Management - Solid Waste Section
401 Oberlin Rd, Ste. 150, Raleigh, N.C. 27605

I, Kimberly Howard (name of site owner) hereby certify that I am the owner of
93.81 acres of land located 3153 Freedom Way, Hubert, NC
and identified by 1306-31 Pin 534501081492 (book and page of recorded deed
or tax map parcel) and that I agree to allow Bogue Sound Septic & Grading, Inc. (name of site
operator) to use said land for septage land application for a period of 5 years (length
of time), beginning August 25, 2012 (month, day and year) and that I have read the
North Carolina Septage Management Rules *, and I understand and agree to maintain the restrictions on
land use after septage land application ends **. I further understand that no septage may be land applied
until the Division of Waste Management has issued a permit for a septage land application site. The above
described property is owned solely by me or jointly with Sharon Quinn
 (names of all co-owners, or state none).

Signature of landowner Kimberly Joy Howard Date March 9, 2012

Signature of landowner Date

Sworn to and subscribed before me this 9th day of March, 2012.

Rebecca S. Price
(Notary Public)

My Commission expires: May 17, 2014

* 15A N.C. Admin. Code 13B Section .0800

** As required by Rule .0826



Landowner's Authorization to Operate a Septage Land Application Site

North Carolina Department of Environment and Natural Resources
Division of Waste Management - Solid Waste Section
401 Oberlin Rd, Ste. 150, Raleigh, N.C. 27605

I, Sharon Quinn (name of site owner) hereby certify that I am the owner of

93.81 acres of land located 3153 Freedom Way, Hubert, NC

and identified by 1306-31 Pin 534501081492 (book and page of recorded deed

or tax map parcel) and that I agree to allow Bogue Sound Septic & Grading, Inc. (name of site

operator) to use said land for septage land application for a period of 5 years (length

of time), beginning August 25, 2012 (month, day and year) and that I have read the

North Carolina Septage Management Rules *, and I understand and agree to maintain the restrictions on

land use after septage land application ends **. I further understand that no septage may be land applied

until the Division of Waste Management has issued a permit for a septage land application site. The above

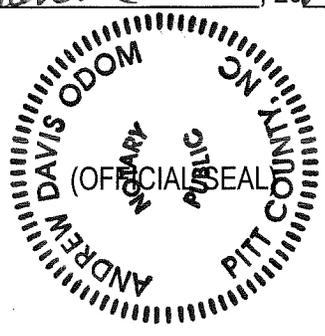
described property is owned solely by me or jointly with Kimberly Howard

(names of all co-owners, or state none).

Signature of landowner *Sharon Quinn* Date 3-8-12
Signature of landowner _____ Date _____

Sworn to and subscribed before me this 8 day of March, 2012.

Andrew Davis Odom
(Notary Public)



My Commission expires: 05-05-2015

* 15A N.C. Admin. Code 13B Section .0800

** As required by Rule .0826

**BOGUE SEPTIC AND GRADING
2012**

**Richard Taylor
325 Bearington Ridge, Newport NC 28570**

**NUTRIENT MANAGEMENT PLAN
SEPTAGE APPLICATION TO BERMUDAGRASS
AND RYEGRASS**

A. Best Management Practices:

The undersigned parties agree to manage the septic disposal site(6503) Max Bell Farm that is located on HWY 24 just west of Swansboro NC in Onslow County, according to the following best management practices. This list of practices has been specifically designed for the land application of septage by BOGUE SOUND SEPTIC AND GRADING INC.

B. Land Area:

The land area (approximately 5.44 acres) is currently being permitted for septage application.

The area has been well established with a coastal Bermudagrass and has been overseeded with annual ryegrass (in past years).

C. General Information:

1. Waste analysis will be conducted at least once per year.
2. The dominant soil series at this site is Goldsboro.
3. Septage will not be applied where the site is untrafficable. (Untrafficable is defined as a soil that will allow a loaded truck to leave a depression in sod greater than 3 inches in depth.)
4. Septage storage shall be provided to account for the average volume of septage pumped per week.
5. Lime stabilization to a pH of 12 for 30 minutes prior to and at the time of land application.
6. Land use is for agricultural purposes.

D. Crops To Be Grown and Approximate Planting Times:

1. Fields, including 50 ft. buffer zones, has been sprigged in coastal bermudagrass in order to establish a permanent stand. Each year thereafter, the field will be overseeded with annual ryegrass at the rate of approximately 30 pounds/acre (broadcast) during the time frames of Sept 15- Nov 15. .
2. If areas of the field of Bermudagrass stand falls below 80% coverage, should re-sprigged in late winter or early spring at the rate of 15 to 25 bu/ac.

E. Nitrogen Needs For The Crop Grown:

R. Y. E.= Realistic Yield Expectations

N. App. Rate = Suggested N application rate based on the R.Y.E.
for specific soil type

Crop	R.Y.E.	N app. Rate	lbs. N/ac
Coastal Bermudagrass	5.0 tons/ac X	40 lbs N/dry tons =	200.0
Annual Ryegrass	2.5 tons/ac X	25 lbs N/dry tons =	62.5

TOTAL			= 262.5

F. Relative Application rate for field:

Month	Field

JAN	LOW
FEB	LOW
MAR	MED
APRIL	LOW
MAY	MED
JUNE	HIGH
JULY	HIGH
AUG	HIGH
SEPT	MED
OCT	MED
NOV	LOW
DEC	LOW

LOW= 5,000 gallons; MED = 10,000 gallons; HIGH = 15,000 gallons

NOTE: CUMULATIVE APPLICATION RATE IS NOT TO EXCEED THE PERMITTED RATE.

G. Application Method:

The preceding information is based on the septage being evenly applied over the entire permitted site or field.

H. Additional Fertility Requirements:

N and K will be added to the land application area and buffer zones to maintain fertility levels which will be based on the NCDA soil test results in order to maintain a good stand of grass.

I. Harvest of the Crop:

1. The bermudagrass will be cut and baled whenever it reaches 12 inches in height, or roughly every 4 to 6 weeks beginning in June and disposed of like normal yard debris.
2. The ryegrass will be cut and baled normally beginning in February and March and removed from the field and also disposed of like normal yard debris.

SOIL EROSION AND RUNOFF CONTROL PLAN

Given that slopes on this site does not exceed three percent and a high infiltration rate of the soil, a 50 foot buffer planted in bermudagrass/ryegrass, should suffice to prevent septage waste from migrating off the field.

SUBMITTED BY: _____ DATE: _____
(SITE OPERATOR)

PLAN PREPARED BY: A. Ray Harris DATE: FEB. 13, 2012
Cooperative Extension County Director Carteret County
(Retired)

ADDRESS 134 White Oak Bluff _____

Stella, NC 28582 _____

PHONE 252 393 3909 _____

A. Ray Harris 2/13/12

SUBMITTED BY: Richard S Taylor DATE: 3/28/12
(SITE OPERATOR)

PLAN PREPARED BY: A. Ray Harris DATE: FEB. 13, 2012
Cooperative Extension County Director Carteret County
(Retired)
ADDRESS 134 White Oak Bluff _____
Stella, NC 28582 _____
PHONE 252 393 3909 _____

A Ray Harris 2/13/12

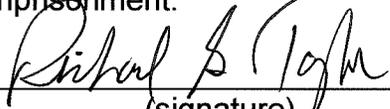


Septage Land Application Log Cover Sheet

Site Operator: Bogue Sound Septic & Grading, Inc.
SLAS Permit #: 6703
Site Location : 3153 Freedom Way Hubert, NC 28539
(street address for the site or latitude and longitude)
Number of acres permitted: 93.81
Permitted application rate: 50,000.00 gal./ac per year
(gallons septage per acre per year)
Crop(s) : Coastal Bermudagrass & Annual Ryegrass
Crop nitrogen requirement(s): Bermudagrass-200 lbs./ac, Ryegrass 62.5
lbs/ac.
(pounds nitrogen per acre)

CERTIFICATION:

"I certify, under penalty of law, that the pathogen requirements in (insert either 503.32 (c)(1) or 503.32 (c)(2)) and the vector attraction reduction requirements in (insert 503.33 (b)(9), 503.33 (b)(10) or 503.33 (b)(12)) have been met. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the pathogen requirements and vector attraction reduction requirements have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment."


(signature)

3-28-2012
(date)