



North Carolina Department of Environmental Quality

Pat McCrory
Governor

Donald R. van der Vaart
Secretary

STATE OF NORTH CAROLINA
DEPARTMENT OF ENVIRONMENTAL QUALITY
DIVISION OF WASTE MANAGEMENT
SOLID WASTE SECTION

PERMIT TO OPERATE A SEPTAGE LAND APPLICATION SITE

Albemarle Septic Service
Joseph M. Russell
134 Belcross Rd.
Camden, NC 27921

is hereby permitted to operate Septage Land Application Site with permit # **SLAS-15-02** located on SR 1145 in Camden County at approximate position 36.37113° N latitude and -76.17317° E 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

12/16/2015

Martin A. Gallagher

Martin A. Gallagher, Supervisor
Composting & Land Application Branch,
Solid Waste Section
Division of Waste Management, NCDEQ

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 This permit shall become void if the soils fail to adequately assimilate the septage and shall be rescinded unless the site is maintained and operated in a manner which will protect the assigned water quality standards of both surface and ground waters.
2. This site shall be operated and maintained in accordance with the nutrient management plan submitted by Joseph M. Russell and approved by the Division of Waste Management. The 10.1-acre site shall remain established in Cheyenne bermudagrass and divided into two fields known as **Field A** (4.6 acres) and **Field B** (5.5 acres). In October of each year, all fields will be overseeded with wheat or oats at a rate of approximately 150 lbs/acre. The mandatory 30-day waiting period between the last application of septage and the harvest of the crop shall be met by alternating septage applications between the two fields or utilizing an alternative disposal location. 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 Joseph M. Russell in such a manner as to prevent the migration of wastes off of the designated waste receiving site. 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, portable toilet waste, grease septage, and commercial/industrial septage. Commercial/industrial septage shall only be land applied after the waste from each source is tested and the results approved by the Solid Waste Section.** The pH of domestic septage or portable toilet waste 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. The pH of grease septage or grease septage mixed with domestic septage be raised to 12 or higher by alkali addition and, without the addition of additional alkali, shall remain at 12 or higher for 2 hours prior to land application. Grease septage when applied over perennial vegetation shall be diluted as per Rule 15A NCAC 13B .0838 (a) (15).
7. **This site contains approximately 10.1 acres that are available for land application of septage.** The maximum annual application rate shall be 50,000 gal/ac/yr. At this application rate, a maximum annual volume of 505,000 gallons may be applied to this site. Application amounts to the disposal fields shall not exceed the maximum annual application rate or monthly application rates listed in the approved nutrient management plan. The maximum annual application rate assumes equal septage distribution, on an annual basis, over the entire permitted area.
8. An approved above ground septage detention system with a minimum design capacity of 10,000 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 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 April 1, 2019.** 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 to meet the minimum setback distances as described in Rule 15A NCAC 13B .0837 (d) such as 500 feet from any existing wells, residences, places of business, or places of public assembly. Also, septage shall not be disposed of within 50 feet of any property line or wetlands. Based on the established vegetation and Rule 15A NCAC 13B .0837 (d) (15), the setback to the ditch is reduced to 50 feet and the setback to the pond is reduced to 100 feet.



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SLAS 15-02

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TO MARCO

ELIZABETH CITY
COUNTY

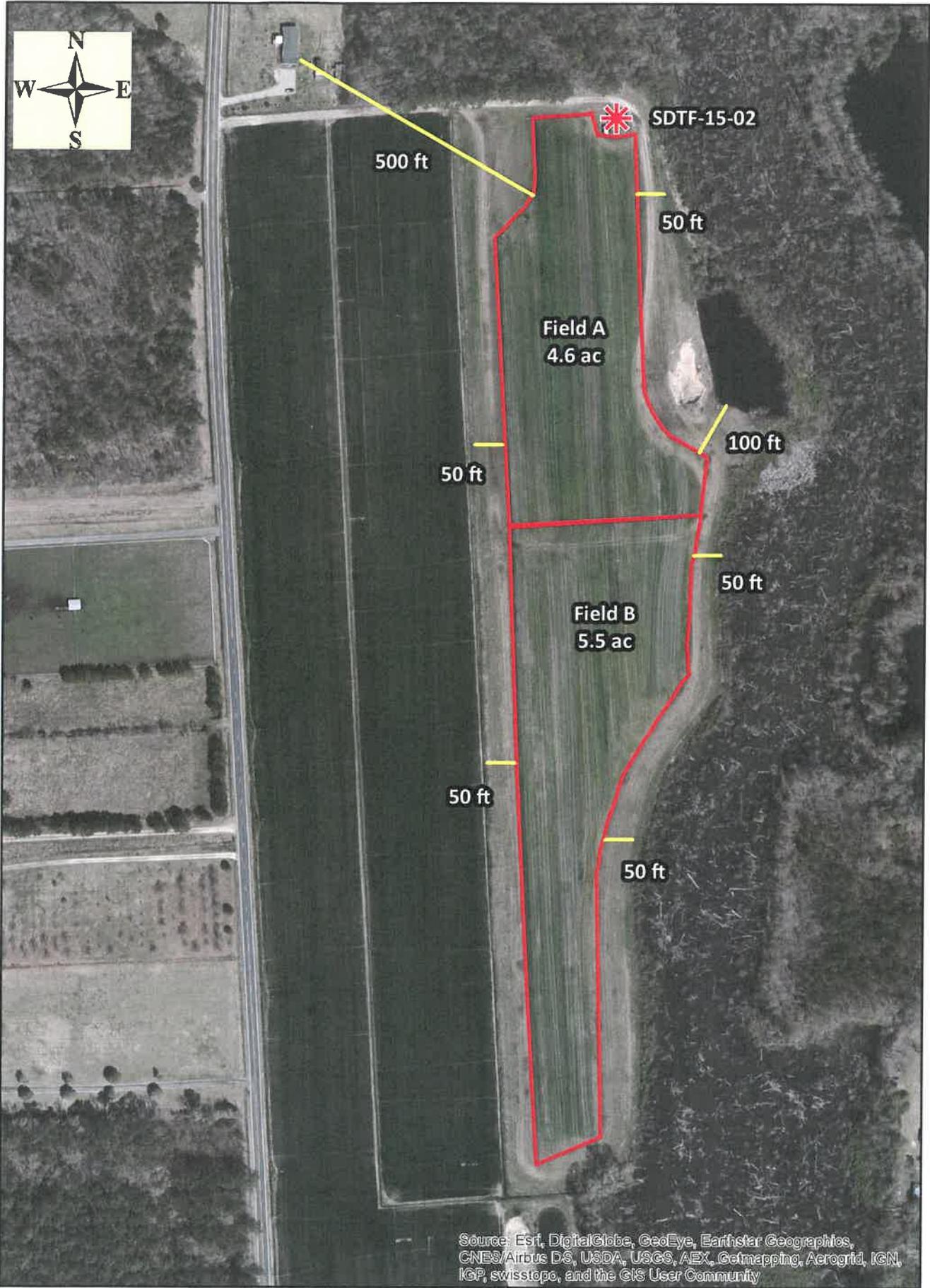
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SLAS-15-02



Map created by NC DEQ Division of Waste Management, Compost and Land Application Branch for permitting purposes only.

1 in = 250 ft

crc, Dec. 2015



PAT MCCRORY
Governor

DONALD R. VAN DER VAART
Secretary

LINDA CULPEPPER
Director

January 19, 2016

Mr. Joseph M. Russell
Albemarle Septic Service
134 Belcross Rd.
Camden, NC 27921

**RE: SLAS-15-02 Permit Renewal
Albemarle Septic Service
SR 1145 Camden County**

Dear Mr. Russell:

The NC Division of Waste Management has reviewed your application for renewal of Septage Land Application Site, **Permit # SLAS-15-02**, in Camden County. Your application has been approved in accordance with NC Septage Management Rules and your permit, **SLAS-15-02**, is enclosed.

Please read all permit conditions carefully. Your nutrient management and soil erosion and runoff control plans you submitted have been included in your Permit. This permit shall expire on **April 1, 2019**. An application for permit renewal and your septage application logs should be submitted at least ninety (90) days prior to the expiration of your permit.

Again, please read all permit conditions carefully. 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-15-02**."

Sincerely,

Chester R. Cobb, Soil Scientist
Division of Waste Management, NCDEQ

Enclosures

cc: Central Files
Martha S. Ferebee and Susan Jennings, landowners
Camden 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
1646 Mail Service Center, Raleigh, NC 27699-1646

I. Site and Operator Information

1. Applicant ALBEMARLE SEPTIC SERVICE (Joseph M. Russell)
Address 134 RIVERCROSS RD
CAMDEN NC 27921
Phone 252-208-9969

2. Contact person for site operation (if different from applicant): SAME
Title or position OWNER Phone _____
Address _____

3. Landowner MARTHA + SUSAN FREEBEE
Address LAMB RD
CAMDEN NC

4. Site Location: County CAMDEN State Road Number 1145
Directions to site: US 158 E TO LEFT ON LAMB'S RD

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

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

Existing site permit number: 15-02 permit expiration date: 7-16-14

6. Number of acres meeting the requirements of the N.C. Septage Management Rules: 10 acres.

7. Substances other than septage or grease trap pumpings previously disposed of on the site:

(a) None , 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): STO 15-02 E1.2 City Wastewater Plant
4. Types of septage proposed to be discharged at the site (check all that apply):
 - (a) Domestic septage pumped from septic tanks
 - (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): Mix hydrated lime to waste to bring PH up to 12
6. Proposed method of applying septage to land, including septage distribution plan if required * (use additional paper to explain if necessary): Surface Broadcasting w/a Pump Truck
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): Agricultural Land

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.

Joseph M Russell
Signature***

4-27-14
Date

Joseph M Russell
Print name

OWNER
Title

Note: This application will not be reviewed until all parts of the application are complete.
* Refer to Section .0837(e) of the N.C. Septage Management Rules.
** Refer to Section .0837(g) of the N.C. Septage Management Rules.
***Signature of company official required.

Addendum

“Application for a Permit to Operate a Septage Land Application Site”

Question II. 5.

Hydrated lime will be added to domestic septage to raise it to a pH of 12 for 30 minutes prior to land application. For any septage containing a mixture of grease trap pumpings, the septage will be raised to a pH of 12 for 2 hours prior to land application. Septage to be at a pH of 12 when applied.

Question II. 6.

Septage will be land applied by pump truck evenly across the field as to leave no ponding or surface disturbance.


Signature


Date

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
1646 Mail Service Center, Raleigh, NC 27699-1646

Martha S. Ferebee +
I, Susan Ferebee-Jennings (name of site owner) hereby certify that I am the owner of

16 acres of land located On Lamb's Rd, Camden NC

and identified by Book 119 Page 785 SR1145 (book and page of recorded deed

or tax map parcel) and that I agree to allow Joseph M Russell (name of site

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

of time), beginning _____ (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 Susan Ferebee-Jennings +

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

Signature of landowner Martha S Ferebee Date 4-1-14

Signature of landowner Susan Ferebee-Jennings Date 4-1-14

Sworn to and subscribed before me this 1 day of April, 20 14.

Laurie N Krainiak
(Notary Public)

My Commission expires: 10-1-18

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

** As required by Rule .0843



ALBEMARLE SEPTIC SERVICES

NUTRIENT MANAGEMENT PLAN FOR SEPTAGE APPLICATIONS TO BERMUDA GRASS AND SMALL GRAIN

A. General Information:

1. Periodic sampling (at least) 1/year of the septage will be conducted for waste Analysis. (optional) Standard Nitrogen content in septage is 2.6 lbs N/1000 gallons. Samples shall be collected by Albemarle Septic and given to Tidewater Ag. For submission to NCDA Agronomic Division.
2. Field A contains approximately 4.6 acres and field B contains approximately 5.5 Acres. The attached copy of the aerial photograph for the site shows field boundaries and identifications.
3. There are two soil series on the site, Bajac Loamy Sand (BoA) covers 80% of the area and Munden Loamy Sand (MuA) covers the other 40%. See attached soil survey map.
4. Septage will not be applied where the site is untrafficable (untrafficable is Defined as soil that will allow a loaded truck to leave a depression in sod greater than 3 inches in depth)
5. All nitrogen recommendation for forages will be 75% of the realistic yield Expectation nitrogen rate should the forage be grazed.
6. Septage storage shall be provided to account for the average volume of septage Pumped per week, or an alternative plan, such as disposal at a waste treatment plant, should be in place.
7. The site will have soil samples taken on an annual basis to track P, K, and heavy Metals. Samples taken 11/22/02 will establish the baseline.

B. Crops to be grown and approximate planting times:

1. Field A&B including buffer zones will be seeded in Cheyenne Bermuda grass at a rate of 15lb/acre in April (month) of 2003 in order to establish a permanent stand. To promote stand establishment, the following steps will be harvests/reduced vehicular traffic, etc): Refer to attached discussions Areas that develop with less than 80% groundcover of Bermuda will be seeded with Bermuda at a rate of 15lb/acre in April (month).

Each year thereafter all fields will be interseeded with wheat or oats at a Rate of approximately 150 lb/acre no till drilled. (seeding method) in early October (month)

A. Nitrogen needs for crops grown:

RYE=Realistic Yield Expectations

N App. Rate +Suggested N application rate based on RYE for soil type

Crop (hay)	RYE	N App. Rate	lbs N/acre
Field A			
Cheyenne Bermuda Grass	5.9 tons/acre x 40lbs	N/dry ton = 236	
Wheat or Oats	3.0 tons/acre x 25lbs	N/dry ton = 75	

Field B

Cheyenne Bermuda grass	5.9 tons/acre 40lbs	N/dry ton=236
Wheat or Oats	3.0 tons/acre 25lbs	N/dry ton= 75

B. Relative application rates for ARTM ALFT, and B

MONTH	FIELD		
	ART	ALFT	B
January	Low	Low	Low
February	Low	Low	Low
March	Medium	Medium	Medium
April	High	High	High
May	Medium	Medium	Medium
June	High	High	High
July	High	High	High
August	Medium	Medium	Medium
September	Medium	Medium	Medium
October	Low	Low	Low
November	Low	Low	Low
December	Low	Low	Low

None=0 gallons Low=5,000 gallons Medium=10,000 gallons High=15,000 gallons

Note: Cumulative application rate is not to exceed the permitted application rate

Annual application rate is not to exceed 50,000 gallons per acre.

At 2.6 lbs N/1000 gal 50,000 gal/A would supply only 130 lbs/A N.

E. Application Method

The preceding information is based on septage being evenly applied over the entire permitted site by surface broadcasting w/a Pump Truck (method, equipment, special application patterns).

F. Additional Fertility Requirements

Phosphorus and potassium will be added in accordance with the soil test results for the crops grown. NOTE: If a septage analysis is available, the phosphorus fertilizer requirement can be reduced by accounting for the amount of phosphorus in the septage.

N.C. Agronomic Division Soil Test results are attached. Since this is a new site which has had only small amounts of septage actually applied, these index levels will become the baseline for monitoring build up of P, K and metals.

Approximately 400_lbs/acre of 10-0-15 N-P-K fertilizer will need to be added to the land application area in May month(s) to maintain fertility levels.

The buffer areas will be fertilized with 400 lbs/acre of 10-0-15 N-P-K fertilizer to maintain production based on soil test results.

G. Harvest of the crops and their use:

1. The bermuda grass will be cut as hay and baled whenever it reaches approximately 12 inches in height, or roughly every 4 to 6 weeks beginning in June. At least three harvests will be made from each field each year.
2. The wheat or oats will be cut as hay and baled in April and May of each year from Fields A and B, respectively.
3. A 30-day waiting period must be observed between the last application of septage and harvest. Beginning about the first of April each year, septage will be applied strictly to Field B while the small grain on Field A is undisturbed for 30 days. After 30 days the small grain in Field A will be harvested and septage application switched to Field A. After an additional 30 days, in late April to early May, the small grains will be harvested from Field B. By early May, a rotation will be established which can cycle every 30 to 45 days between bermuda grass harvests. By early October small grain will have been planted and the entire site will be available for septage application until mid March the following year.
4. The hay will be given to a local farmer, in return for his baling the hay, to feed his beef cows.

SOIL EROSION AND RUNOFF CONTROL PLAN

Given that slopes on the site do not exceed five percent, buffer areas*, planted in Bermuda and small grains should suffice to prevent septage waste from migrating off of fields.

*Buffers: 60 feet wide beside drainage ditches
50 feet wide beside swamp
100 feet wide beside pond

Submitted by: Mike Russell
Site operator

Date: April 29, 2014

Plan prepared by: Mike Russell

Date: April 29, 2014

Mike Russell

4-29-14

SEPTAGE LAND APPLICATION LOG

COVER SHEET



Site Operator: Joseph M Russell
SLAS Permit #: 15-02
Site Location: LAMB'S Rd Camden NC
(street address for the site or latitude and longitude)

Number of acres permitted: 10
Permitted application rate: 50,000
(gallons septage per acre per year)

Crop(s): Cheyenne Bermuda, OAT OR WHEAT
Crop nitrogen requirement(s): Bermuda = ~~236~~ 236 lbs OAT 75 lbs
(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."

Joseph M Russell
(signature)

4-29-14
(date)

SLAS-15-02

	2010				2011				2012				
	Septage	Grease	PTW	Field A	Field B	Field 3	Field 4	Rate	Amount	Rate	Amount	Rate	Amount
January								L	23,000	L	27,500		
February	13,000			13,000	0	0	L	23,000	L	27,500			
March	30,000			0	0	0	M	46,000	M	55,000			
April	31,000			0	31,000	0	H	69,000	H	82,500			
May	22,000			22,000	0	0	M	46,000	M	55,000			
June	23,500			0	23,500	0	H	69,000	H	82,500			
July	19,500			19,500	0	0	H	69,000	H	82,500			
August	26,000			0	26,000	0	M	46,000	M	55,000			
September	12,500			12,500	0	0	M	46,000	M	55,000			
October	20,000			0	20,000	0	L	23,000	L	27,500			
November	25,000			25,000	0	0	L	23,000	L	27,500			
December	17,000			0	17,000	0	L	23,000	L	27,500			
TOTAL	239,500	0	0	92,000	117,500	0	0	209,500	230,000	0	505,000		

		10.1			
		Field 1	Field 2	Field 3	Field 4
ACRES	4.6	5.5	0	0	10.1
low	23,000	27,500	0	0	
medium	46,000	55,000	0	0	
high	69,000	82,500	0	0	
Max. Amount	230,000	275,000	0	0	505,000
None	5,000				
Low	10,000				
Medium	15,000				
High					

