



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

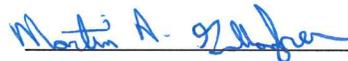
**PERMIT TO OPERATE A SEPTAGE LAND
APPLICATION SITE**

Rudolf Inman Septic Tank Service
Ben Harrelson
5454 James B. White Hwy S.
Whiteville, NC 28472

is hereby permitted to operate Septage Land and Application Site with permit # **SLAS-24-07** located on SR 1165 in Columbus County at approximate position 34.24136°N latitude and -78.70826°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 This permit shall become void if the soils fail to adequately assimilate the septage and shall be rescinded unless the site is maintained and operated in a manner which will protect the assigned water quality standards of both surface and ground waters.
2. This site shall be operated and maintained in accordance with the nutrient management plan submitted by Ben Harrelson and approved by the Division of Waste Management. The 8.8-acre site is divided into two fields. Field 1 has 5.2 acres and Field 2 has 3.6 acres. Fields #1 and #2 have been established in Coastal Bermudagrass. Areas in the fields that fall below 80% coverage of bermudagrass shall be resprigged with 30 to 40 bushels of Coastal Bermudagrass sprigs in March or April. The overseeding of rye into the bermudagrass will be alternated between the two fields each year. The rye will be planted in October at a rate of 100 to 120 lb/acre. The bermudagrass shall be cut and baled as hay when it reaches approximately 12 inches in height. Three to five bermudagrass harvests shall be made each year. The rye shall be cut and baled as hay in March or April of each year. The 30-day waiting period between the last application of septage and the harvest of a crop shall be met by alternating septage applications between the two fields. 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 Ben Harrelson 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, grease trap pumpings, and portable toilet waste.** 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. Grease septage or grease septage mixed with domestic septage shall be raised to pH 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.
7. **This site contains approximately 8.8 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 440,000 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 8,000 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 January 1, 2015.** 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-24-07



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, March 2013



North Carolina Department of Environment and Natural Resources

Division of Waste Management

Dexter R. Matthews
Director

Pat McCrory
Governor

John E. Skvarla, III
Secretary

March 5, 2013

Mr. Ben Harrelson
Rudolf Inman Septic Tank Service
5454 James B. White Hwy. S.
Whiteville, NC 28472

**RE: SLAS-24-07 Permit Renewal
Rudolf Inman Septic Tank Service
SR 1165 in Columbus County**

Dear Mr. Harrelson:

The NC Division of Waste Management has reviewed your application to renew Septage Land Application Site Permit, **SLAS-24-07**, in Columbus County. Your application to operate a Septage Land Application Site has been approved in accordance with NC Septage Management Rules and your permit, **SLAS-24-07**, 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 sizes of each field and crop management details listed in the submitted nutrient management plan.
- **Condition 6.** States that this site is only permitted to receive domestic septage, grease trap pumpings, and portable toilet waste. Disposal of any other type of waste at this site is prohibited.
- **Condition 7.** States that there are approximately 8.8 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 440,000 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 January 1, 2015.** 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-24-07"**

Sincerely,



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

Enclosures

cc: Central File
David and Terri Gore, landowners
Will Burke, Environmental Senior Specialist
Columbus County Health Department

S:\Solid_Waste\cla\septage\slasper\24-Colum\Harrelson\SLAS24-07cl13p.docx

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 Ben Harrelson
Address 5454 James B White Hwys
Whiteville NC 28472
Phone _____

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

3. Landowner David + Terri Gore
Address 975 Pleasant Plains Church Rd
Whiteville NC 28472

4. Site Location: County Columbus State Road Number 1165
Directions to site: 701-S-Left SR 1166 - Rt SR 1165 - Land on
Left + Rt 1 mile

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

For a permit renewal or modification, provide the following information:
Existing site permit number: 24-07 permit expiration date: 04-29-14

6. Number of acres meeting the requirements of the N.C. Septage Management Rules: 11 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): _____
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): Septage lime stabilized to Ph 12 + held for 30 min. prior to application. Grease septage will be lime stabilized to Ph 12 + held 2hrs prior to land 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 spread evenly across site from a moving vehicle
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.

Ben Harrelson
Signature***

12-17-12
Date

Ben Harrelson
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.

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



I, David L. Gore (name of site owner) hereby certify that I am the owner of
11 acres of land located on Home Harrelson Rd
and identified by Book 571 Page 708 (book and page of recorded deed
or tax map parcel) and that I agree to allow Ben Harrelson (name of site
operator) to use said land for septage land application for a period of 10 years (length
of time), beginning 1-1-05 (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 Terris W. Gore
_____ (names of all co-owners, or state none).

Signature of landowner [Signature] Date 11-16-12

Signature of landowner Terris W. Gore Date 11-16-12

Sworn to and subscribed before me this 16th day of November, 2012.

Carol A. Clark
(Notary Public)

(OFFICIAL SEAL)

My Commission expires: December 13, 2016

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

** As required by Rule .0843

January 22, 2013

Mr. Cobb

I have met with the property owner, David Gore. He has showed me the property lines and I am definitely more than 50 feet. I have enclosed a copy of the map . AS soon as Michael Shaw completes my Nutrient Management Plan, I will mail you a copy. Thank you for all your assistance. If there is anything else that you may need, please feel free to contact me.

Sincerely
Ben Harrelson



Nutrient Management Plan

Ben Harrellson

dba Rudolf Inman

Septic Tank Service



A. GENERAL INFORMATION

1. Periodic sampling (at least one time per year) of the septage will be conducted for waste analysis. These samples will be used to monitor nutrient loading.
2. Total area available for septage application is 11 acres of a 30.0 acre tract. For the purpose of developing the nutrient management plan, and a cropping plan, this site will be divided into three fields, Field #1-A, Field #1-B, and Field #2, as marked on a field photo. Field #1-A will contain 5 acres of septage application area, fields #1-B and #2 will contain 3 acres each. All fields will have a buffer surrounding the septage application site.
3. The dominant soil series for Field #1-A and #1-B is Norfolk, with most of the field 0-2 % slope, and only a small part of Field #1-B having a slope of 2%. Field #2 is predominately wagram. The slopes on this site are 2%.
4. Septage will not be applied when the site is untrafficable. This can be defined and measured as a loaded truck will not leave a depression greater than 3 inches in depth.
5. All nitrogen recommendations will be based on the realistic yield expectations for the site.
6. Septage storage will be provided to account for the average volume septage pumped per week, or an alternative plan, such as disposal at a waste treatment plant, will be in place.

B. Crops To be Grown

1. This site will be used to grow hay crops under best management practices, with the harvested crops used for animal feed. This includes all three fields at this site.
2. The site will include three separate and identifiable fields: Field #1, Field #2, and Field #3. Field #1-A will contain 5 acres, and fields #1-B and #2 will contain 3 acres each.
3. Field #1-A will be sprigged in Coastal Bermudagrass this spring. This field(all fields) will be cut for hay as needed during the summer and used for animal feed. After the last harvest of Coastal Bermuda hay this site will be overseeded with rye at the rate of 100-120 lbs per acre. This crop of rye will be cut and removed as a hay crop in early spring(April). After this year(2005), the field will be seeded to rye every other year.
4. Field #1-B will be sprigged with Coastal Bermuda grass this spring. This will allow septage application soon after the grass is growing this summer. After the second year(2006), this site will also be overseeded with rye. After the last harvest of Coastal Bermuda hay this site will be overseeded with rye at the rate of 100-120 lbs per acre. This crop of rye will be cut and removed as a hay crop in early spring(April). This field will be overseeded with rye every other year.
5. Field #2 will be sprigged with Coastal Bermuda grass this spring. This will allow septage application soon after the grass is growing this summer. After the second year(2006), this site will also be overseeded with rye. After the last harvest of Coastal Bermuda hay this site will be overseeded with rye at the rate of 100-120 lbs per acre. This crop of rye will be cut and removed as a hay crop in early spring(April). This field will be overseeded with rye every other year.
6. The buffer areas in the fields will be maintained in Coastal Bermuda grass(also sprigged this spring). When overseeding the fields with rye, the buffer area will be seeded also. The grass in the buffer area will also be harvested as hay. The buffer area may receive an application of commercial fertilizer. These buffer areas

will be cropped like the septage area, with the exception of septage application.

C. Nitrogen Needs For The Crops Grown

R.Y.E. Realistic Yield Expectation

Nitrogen application is based on RYE for the soil type and location.

<u>Crop</u>	<u>Soil Type</u>	<u>R.Y.E.</u>	<u>N Rate</u>	<u>lbs. N/Acre</u>
Coastal Bermuda	Wagram	5.4 ton	49 lb N/Ton	264 lbs N
	Norfolk	6.4 ton	45 lb N/ton	290 lbs N
Rye	Wagram	1.1 ton	50 lb N/ton	53 lbs N
	Norfolk	2.5 ton	45 lb N/ton	114 lbs N

D. Application Rates
Fields #1, #2, #3.

<u>Month</u>	<u>Coastal Bermuda</u>	<u>Coastal Bermuda, overseeded with rye</u>
January	none	medium
February	none	medium
March	none	medium
April	high	low
May	high	high
June	high	high
July	high	high
August	high	high
September	low	high
October	none	low
November	none	low
December	none	low

none = 0 gallons; low = 5,000 gallons;
medium = 10,000 gallons; high = 15,000 gallons

E. Application Method

The preceding information is based on septage being evenly applied over the permitted site by broadcasting the septage, using a shovel spreader, from the 2300 gallon tank on the pumper truck.

F. Additional Fertility Requirements

Additional potassium may need to be applied in both fields according the soil test results.

The buffer areas around the field will be fertilized and limed in accordance with best management practices and the soil sample recommendations from NCDA.

Additional nitrogen applications from commercial sources may be needed when septage will not be applied to the field in order to keep the crop growing and healthy.

G. Harvest Of Crops And Their Use

1. The bermudagrass will be cut and baled when it reaches approximately 12 inches tall. This will be from late April or June through September. Three to five harvests can be expected per year, depending on the weather during the season. All hay harvested will be removed from the site and utilized as animal feed.
2. The rye that has been overseeded will be cut for hay and baled in March or April. All hay harvested will be removed from the site and utilized as animal feed.
3. A 30 day waiting period must be observed between septage application and harvest of the hay crop. The utilization of three fields will allow septage applications to one field while allowing for the 30 days of no septage application before harvest on the additional two fields.

SOIL EROSION AND RUNOFF CONTROL PLAN

Given that there is almost no slope on most of this site, (slope is less than 2%), and the remaining part is a 3% slope, and that the entire field is surrounded by woodland, there should be almost no runoff. As a precaution for runoff no waste will be applied within 25 feet of the field borders. There will be Coastal Bermudagrass planted on this 25 foot border, maintained as a permanent grass crop, and managed in accordance with best management practices.

Submitted by Ben Hamble

Date 12-17-62

Ben Harrelson
dba Rudolf Inman Setic Tank Service
5454 James B. hite Hyw S
Whiteville, NC 28472
(910) 642-7431
(910) 840-0437

Plan Prepared By
Michael W. Shaw
Extension Agent - Field Crops
NC Cooperative Extension Service
45 government Complex Rd
Suite A
Whiteville, NC 28472
910-640-6605
December 2, 2004

SLAS-24-07 NMP Addendum

Ben Harrelson

Page 2 of 2



D. Application Rates
Field #1 and Field #2

Month	Coastal Bermuda	Coastal Bermuda overseeded with Rye
January	0	5,000
February	0	5,000
March	0	10,000
April	15,000	5,000
May	15,000	10,000
June	15,000	15,000
July	15,000	15,000
August	15,000	15,000
September	10,000	10,000
October	0	5,000
November	0	5,000
December	0	5,000

G. Harvest of the Crops and Their Use:

3. A 30 day waiting period must be observed between septage application and harvest of the hay crop. This will be accomplished by rotating between the two fields.

H. Weed Control

Proper septage applications and the recommended timely harvesting of the bermudagrass and rye are important for maintaining crop stand and the control of weeds. Should weeds become a problem contact your technical specialist for assistance.

Signed: *Ben Harrelson* Date: 1-15-13
 Ben Harrelson

SLAS-24-07

2009							
	Septage	Grease	PTW	Field 1	Field 2	Field 3	Field 4
January				8,550			M
February				9,550			M
March				8,100			M
April				14,500			L
May				5,900			H
June				17,000			H
July				7,000			H
August				10,000			H
September				7,900			H
October				5,800			L
November				9,700			L
December				9,800			L
TOTAL	0	0	0	113,800	0	0	0
			0				113,800

2010							
	Septage	Grease	PTW	Field 1	Field 2	Field 3	Field 4
January				20,650			M
February				17,800			M
March				14,100			M
April				20,650			L
May				10,900			H
June				4,700			H
July				11,400			H
August				20,300			H
September				15,500			H
October				15,350			L
November				18,650			L
December				0			L
TOTAL	0	0	0	170,000	0	0	0
			0				170,000

2011							
	Septage	Grease	PTW	Field 1	Field 2	Field 3	Field 4
January				7,800			M
February				14,750			M
March				12,000			M
April				5,800			L
May				7,900			H
June				5,900			H
July				5,900			H
August				2,000			H
September				6,550			H
October				9,800			L
November				6,900			L
December				7,800			L
TOTAL	0	0	0	93,100	0	0	0
			0				93,100

2012							
	Septage	Grease	PTW	Field 1	Field 2	Field 3	Field 4
January				9,650			M
February				10,800			M
March				18,800			M
April				14,000			L
May				12,800			H
June				5,000			H
July				5,900			H
August				10,900			H
September				0			H
October				14,900			L
November				9,900			L
December				15,000			L
TOTAL	0	0	0	127,650	0	0	0
			0				127,650

2010

8.8 acre site	@	50,000 gal/ac/yr			440,000 gal/yr	
	ACRES	Field 1	Field 2	Field 3	Field 4	Site
	5.2	3.6	0	0	0	8.8
low		26,000	18,000	0	0	
medium		52,000	36,000	0	0	
high		78,000	54,000	0	0	
Max. Amount		260,000	180,000	0	0	440,000
Monthly Rate						
None						
Low	5,000					
Medium	10,000					
High	15,000					

Septage Land Application Log Cover Sheet



Site Operator: Ben Harrelson
SLAS Permit #: 24-07
Site Location: SR 1165 (Home Harrelson Rd)
(street address for the site or latitude and longitude)
Number of acres permitted: 11
Permitted application rate: 50,000
(gallons septage per acre per year)
Crop(s): Coastal Beemuda - Rye
Crop nitrogen requirement(s): 264-290 53-114
(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."

B. Harrelson
(signature)

12-17-12
(date)



January 25, 2013

To Whom It May Concern:

Errors on PH logs were incorrectly noted in the hundredths. I was using a PH Meter and wrote the numbers down backwards.

Sincerely

A handwritten signature in black ink that reads 'Ben Harrelson'.

Ben Harrelson
DBA: Rudolph Inman's Septic Tank Service



Septage Land Application Log Cover Sheet

Site Operator: Ben Harrelson
 SLAS Permit #: 24-07
 Site Location: SR 1165 (Home Harrelson Rd)
(street address for the site or latitude and longitude)
 Number of acres permitted: 11 8.5
 Permitted application rate: 50000
(gallons septage per acre per year)
 Crop(s): Coastal Bermuda - Rye
 Crop nitrogen requirement(s): 264-290 - 53-114
(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."

Ben Harrelson
(signature)

1-14-12
(date)

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 Ben Harrelson
Address 5454 James B White Hwy S
Whiteville NC 28472
Phone 910-642-7431

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

3. Landowner David + Terri Gore
Address 975 Pleasant Plains Church Rd
Whiteville NC 28472

4. Site Location: County Columbus State Road Number 1165
Directions to site: 701 S - Lft + Sr 1166 - Rt + Sr 1165 - Land on Lft
+ Rt 1 mile

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

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

Existing site permit number: 24-07 permit expiration date: 4-29-14

6. Number of acres meeting the requirements of the N.C. Septage Management Rules: 11 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)

ON File

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# 24-07
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): Septage will be lime stabilized to a pH 12 & held there for 30 min. prior to application. Grease septage will be lime stabilized to a pH 12 & held for 2 hrs. prior to land 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 spread evenly across the site from a moving vehicle.
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.

Ben Harrelson
Signature***

1-14-12
Date

Ben Harrelson
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.

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



I, David L. Gore (name of site owner) hereby certify that I am the owner of
11 acres of land located on Home Harrelson Rd
and identified by Book 571 Page 708 (book and page of recorded deed
or tax map parcel) and that I agree to allow Ben Harrelson (name of site
operator) to use said land for septage land application for a period of 10 years (length
of time), beginning 1-1-05 (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 Terri W. Gore
_____ (names of all co-owners, or state none).

Signature of landowner David L. Gore Date 1-14-12

Signature of landowner Terri W. Gore Date 1-14-12

Sworn to and subscribed before me this 14th day of January, 2012.

Michelle Rohde Gore
(Notary Public)

(OFFICIAL SEAL)

My Commission expires: 1-10-2015

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

** As required by Rule .0843

Nutrient Management Plan

Ben Harrellson

dba Rudolf Inman

Septic Tank Service



A. GENERAL INFORMATION

1. Periodic sampling (at least one time per year) of the septage will be conducted for waste analysis. These samples will be used to monitor nutrient loading.
2. Total area available for septage application is 11 acres of a 30.0 acre tract. For the purpose of developing the nutrient management plan, and a cropping plan, this site will be divided into three fields, Field #1-A, Field #1-B, and Field #2, as marked on a field photo. Field #1-A will contain 5 acres of septage application area, fields #1-B and #2 will contain 3 acres each. All fields will have a buffer surrounding the septage application site.
3. The dominant soil series for Field #1-A and #1-B is Norfolk, with most of the field 0-2 % slope, and only a small part of Field #1-B having a slope of 2%. Field #2 is predominately wagram. The slopes on this site are 2%.
4. Septage will not be applied when the site is untrafficable. This can be defined and measured as a loaded truck will not leave a depression greater than 3 inches in depth.
5. All nitrogen recommendations will be based on the realistic yield expectations for the site.
6. Septage storage will be provided to account for the average volume septage pumped per week, or an alternative plan, such as disposal at a waste treatment plant, will be in place.

B. Crops To be Grown

1. This site will be used to grow hay crops under best management practices, with the harvested crops used for animal feed. This includes all three fields at this site.
2. The site will include three separate and identifiable fields: Field #1, Field #2, and Field #3. Field #1-A will contain 5 acres, and fields #1-B and #2 will contain 3 acres each.
3. Field #1-A will be sprigged in Coastal Bermudagrass this spring. This field(all fields) will be cut for hay as needed during the summer and used for animal feed. After the last harvest of Coastal Bermuda hay this site will be overseeded with rye at the rate of 100-120 lbs per acre. This crop of rye will be cut and removed as a hay crop in early spring(April). After this year(2005), the field will be seeded to rye every other year.
4. Field #1-B will be sprigged with Coastal Bermuda grass this spring. This will allow septage application soon after the grass is growing this summer. After the second year(2006), this site will also be overseeded with rye. After the last harvest of Coastal Bermuda hay this site will be overseeded with rye at the rate of 100-120 lbs per acre. This crop of rye will be cut and removed as a hay crop in early spring(April). This field will be overseeded with rye every other year.
5. Field #2 will be sprigged with Coastal Bermuda grass this spring. This will allow septage application soon after the grass is growing this summer. After the second year(2006), this site will also be overseeded with rye. After the last harvest of Coastal Bermuda hay this site will be overseeded with rye at the rate of 100-120 lbs per acre. This crop of rye will be cut and removed as a hay crop in early spring(April). This field will be overseeded with rye every other year.
6. The buffer areas in the fields will be maintained in Coastal Bermuda grass(also sprigged this spring). When overseeding the fields with rye, the buffer area will be seeded also. The grass in the buffer area will also be harvested as hay. The buffer area may receive an application of commercial fertilizer. These buffer areas

will be cropped like the septage area, with the exception of septage application.

C. Nitrogen Needs For The Crops Grown

R.Y.E. Realistic Yield Expectation

Nitrogen application is based on RYE for the soil type and location.

<u>Crop</u>	<u>Soil Type</u>	<u>R.Y.E.</u>	<u>N Rate</u>	<u>lbs. N/Acre</u>
Coastal Bermuda	Wagram	5.4 ton	49 lb N/Ton	264 lbs N
	Norfolk	6.4 ton	45 lb N/ton	290 lbs N
Rye	Wagram	1.1 ton	50 lb N/ton	53 lbs N
	Norfolk	2.5 ton	45 lb N/ton	114 lbs N

D. Application Rates
Fields #1, #2, #3.

<u>Month</u>	<u>Coastal Bermuda</u>	<u>Coastal Bermuda, overseeded with rye</u>
January	none	medium
February	none	medium
March	none	medium
April	high	low
May	high	high
June	high	high
July	high	high
August	high	high
September	low	high
October	none	low
November	none	low
December	none	low

none = 0 gallons; low = 5,000 gallons;
medium = 10,000 gallons; high = 15,000 gallons

E. Application Method

The preceding information is based on septage being evenly applied over the permitted site by broadcasting the septage, using a shovel spreader, from the 2300 gallon tank on the pumper truck.

F. Additional Fertility Requirements

Additional potassium may need to be applied in both fields according to the soil test results.

The buffer areas around the field will be fertilized and limed in accordance with best management practices and the soil sample recommendations from NCDA.

Additional nitrogen applications from commercial sources may be needed when septage will not be applied to the field in order to keep the crop growing and healthy.

G. Harvest Of Crops And Their Use

1. The bermudagrass will be cut and baled when it reaches approximately 12 inches tall. This will be from late April or June through September. Three to five harvests can be expected per year, depending on the weather during the season. All hay harvested will be removed from the site and utilized as animal feed.
2. The rye that has been overseeded will be cut for hay and baled in March or April. All hay harvested will be removed from the site and utilized as animal feed.
3. A 30 day waiting period must be observed between septage application and harvest of the hay crop. The utilization of three fields will allow septage applications to one field while allowing for the 30 days of no septage application before harvest on the additional two fields.

SOIL EROSION AND RUNOFF CONTROL PLAN

Given that there is almost no slope on most of this site, (slope is less than 2%), and the remaining part is a 3% slope, and that the entire field is surrounded by woodland, there should be almost no runoff. As a precaution for runoff no waste will be applied within 25 feet of the field borders. There will be Coastal Bermudagrass planted on this 25 foot border, maintained as a permanent grass crop, and managed in accordance with best management practices.

Submitted by B. J. Hamlin

Date 12-9-11

Ben Harrelson
dba Rudolf Inman Setic Tank Service
5454 James B. hite Hyw S
Whiteville, NC 28472
(910) 642-7431
(910) 840-0437

Plan Prepared By
Michael W. Shaw
Extension Agent - Field Crops
NC Cooperative Extension Service
45 government Complex Rd
Suite A
Whiteville, NC 28472
910-640-6605
December 2, 2004