



North Carolina Department of Environment and Natural Resources

Pat McCrory  
Governor

Donald R. van der Vaart  
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**

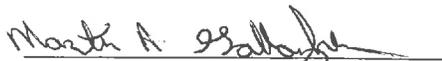
Roy Heath Septic Tank Service  
Roy P. Heath, Jr.  
4025 Richlands Highway  
Jacksonville, NC 28540

is hereby permitted to operate Septage Land Application Site with permit # **SLAS-31-10** located on SR 1710 in Duplin County at approximate position 34.98667° N latitude and -77.77256° 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

4/16/2015



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

## 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 This permit shall become void if the soils fail to adequately assimilate the septage and shall be rescinded unless the site is maintained and operated in a manner which will protect the assigned water quality standards of both surface and ground waters.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 Roy P. Heath, Jr. and approved by the Division of Waste Management. The 13 acres site shall be divided into three fields as Field 1 (5 acres), Field 2 (4 acres), and Field 3 (4 acres). The fields shall remain established in bermudagrass and shall be overseeded in small grains (barley, wheat, oats, or rye) in the fall of each year. Areas where the bermudagrass stand drops below 80% in coverage shall be re-sprigged with bermudagrass or seeded in Cheyenne Bermudagrass. The planting and harvest of the bermudagrass and small grain shall be followed as outlined in the nutrient management plan. The 30-day waiting period between the last application of septage and the harvest of a crop shall be met by alternating septage applications, the waiting period, and harvest between the three 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 Roy P. Heath, Jr. in such a manner as to prevent the migration of wastes off of the designated waste receiving site. A vegetative buffer shall be maintained around the perimeter of the 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.

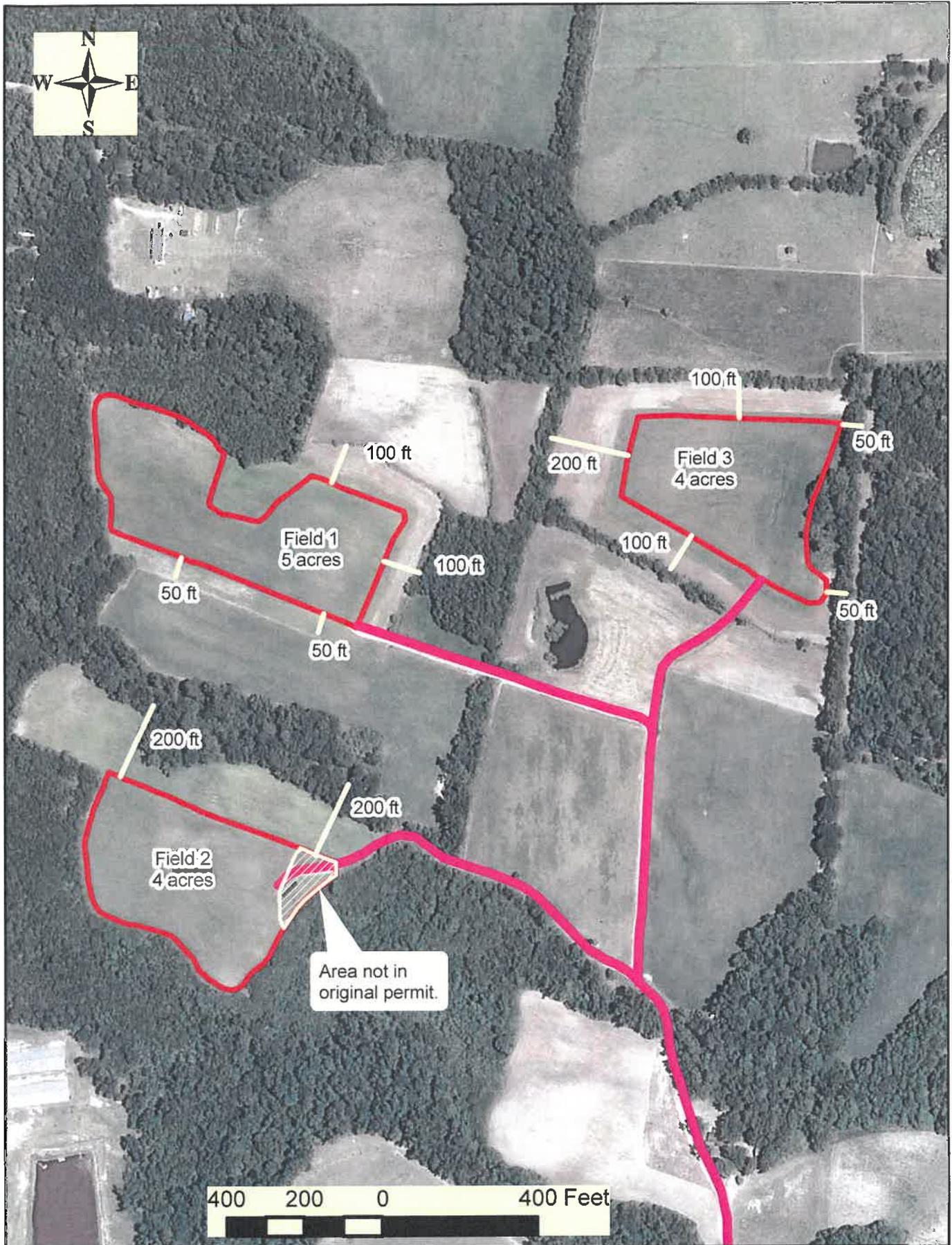
6. **This site is only permitted for the land application of domestic septage.** The pH of domestic septage shall be raised to 12 or higher by alkali addition and, without the addition of additional alkali, shall remain at 12 or higher for 30 minutes prior to land application.
7. **This site contains approximately 13 acres that are available for land application of septage.** The maximum annual application rate shall be 50,000 gallons per acre per year. At this application rate, a maximum annual volume of 650,000 gallons may be applied to this site. Application amounts to the three fields shall not exceed the maximum annual application rate or the 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 13,000 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 16, 2020.** 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 NC Septage Management 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 within 100 feet of any ditch.
20. This site is permitted as three fields with the following coordinates:

Field ID	Latitude (°N)	Longitude (°E)
1	34.98667	-77.77256
2	34.98433	-77.77293
3	34.98706	-77.76829



# SLAS-31-10



Source: 2010 NAIP Color Imagery, NCDA; site boundaries, 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, Oct. 2014



North Carolina Department of Environment and Natural Resources

Pat McCrory  
Governor

Donald R. van der Vaart  
Secretary

May 8, 2015

Mr. Roy P. Heath, Jr.  
Roy Heath Septic Tank Service  
4025 Richlands Highway  
Jacksonville, NC 28540

**RE: SLAS-31-10 Permit Renewal  
Roy Heath Septic Tank Service  
SR 1710 in Duplin County**

Dear Mr. Heath:

The NC Division of Waste Management has reviewed your application for permit renewal of Septage Land Application Site, **Permit # SLAS-31-10**, in Duplin County. Your application has been approved in accordance with NC Septage Management Rules and your permit, **SLAS-31-10**, is enclosed.

Please read all permit conditions carefully. Your nutrient management and soil erosion and runoff control plans have been included in your permit. The permitted maximum annual application rate for this site is stated within Permit Condition 7. Also, an application for permit renewal must be submitted at least ninety (90) days prior to the permit expiring as stated within Permit Condition 15. **The enclosed permit shall expire on April 16, 2020.**

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 permit or septage in general, please contact me at (919) 707-8283. When communicating to the Division about this permit, please refer to it as "**SLAS-31-10.**"

Sincerely,

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

Enclosures

cc: Central File  
John College, Environmental Senior Specialist  
Katherine S. Heath, Landowner  
Duplin 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

## 1. Site and Operator Information

1. Applicant Roy Heath Septic Tank Service  
Address 4025 Richland Hwy  
Jacksonville, NC 28547  
Phone 910-347-6181

2. Contact person for site operation (if different from applicant): Roy Heath Sr  
Title or position Operator - owner Phone 910-347-6181  
Address 4025 Richland Hwy  
Jacksonville, NC 28540

3. Landowner Katherine S. Heath  
Address 1102 NC 241  
Pink Hill, NC 28572

4. Site Location: County Duplin State Road Number off 1710/Horsepen Branch  
Directions to site: St. Hwy 241 - left on Summer Rd  
Right on Horsepen Branch Ln.

5. Indicate whether request is: new \_\_\_\_\_ renewal  modification \_\_\_\_\_

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

Existing site permit number: 31-10 permit expiration date: 12-31-2013

6. Number of acres meeting the requirements of the N.C. Septage Management Rules: 13 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): 31-10
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): Will Lime Stabilize Domestic Septage at pH 12 for 30 minutes
6. Proposed method of applying septage to land, including septage distribution plan if required \* (use additional paper to explain if necessary): 4 ft Plus distance with Splash Pan on Pump Truck In Consec rows that do not over lap.
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): Agriculture land law does not apply

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.

Ray P. Hunt  
Signature\*\*\*

4-16-2013  
Date

Ray P. Hunt  
Print name

4-16-2013  
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, Katherine S Heath (name of site owner) hereby certify that I am the owner of 108 acres of land located 1710 off Horse Pen Branch Ln. and identified by 1205 Book Page 138 (book and page of recorded deed or tax map parcel) and that I agree to allow Roy P Heath Jr (name of site operator) to use said land for septage land application for a period of 10 year's (length of time), beginning 7-2013 (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 Katherine S Heath (names of all co-owners, or state none).

Signature of landowner Kathleen S Heath Date 4-16-2013

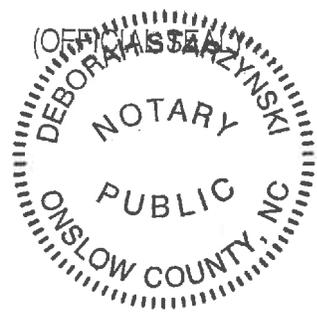
Signature of landowner Kathleen S Heath Date 4-16-2013

Sworn to and subscribed before me this 17 day of April, 2013.

Deborah J. Czyszewski  
(Notary Public)

My Commission expires: March 7, 2018

\* 15A N.C. Admin. Code 13B Section .0800  
\*\* As required by Rule .0843





4. Septage will not be applied when and 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. It also will not be applied when the field is flooded, frozen, or snow covered.
5. Grease septage is to be diluted at least 1:1 from its original concentration when pumped with domestic septage or water. To prevent damage to the receiving crop, it may be necessary to dilute the grease 1:3 (1 part grease to 3 parts water). Grease septage applications shall not exceed 25,000 gallons/acre/yr.
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.

**B. Crops to be grown and approximate planting and harvest times:**

1. Field #1 and #2, including buffer zones, will be planted (sprigged or seeded) with Bermudagrass. The application area of the field will be over-seeded with a winter small grain (cereal rye) from mid-September to mid-November of each year, depending on the weather. The seeding rates will be as follows:

Rye grain: 120 pounds/acre if broadcast or 100 pounds/acre if drilled

Before seeding, the field should be mowed short (2-3 inches) and treated for winter annual weeds, as necessary, for early control. There are a variety of 2,4-D products that can be used for control of broadleaf winter annual weeds. Be sure to read the label for the product you use, as you may need to wait 3-4 weeks between treatment and seeding.

The winter small grain will be harvested as hay, preferably by late April. It is very important to get the small grain off the field so that shading does not harm the Bermudagrass stand. This plan calls for rye grain; NOT rye grass.

Currently, it is planned that the owner will plant Fields #1 and #2 with Bermuda (sprigs or Cheyenne seeds) in Spring 2009. See the "General Note", item B3 below, for establishment of Bermudagrass.

Once established, the first Bermudagrass hay harvest each year will be when the grass is 12 to 15 inches tall. Subsequent cuttings should occur at four- to five-week intervals or when it is 12 to 15 inches tall, whichever comes first. Recommended Bermudagrass practices are detailed in the attached Extension publication, *Bermudagrass Management in North Carolina*. It should be noted that true "common" Bermudagrass does not grow very tall and will be shorter than the Cheyenne. Mowing will help the grass spread and reduce weed problems.

2. Field #3 will be treated the same as the other fields, except it already has a stand of Bermudagrass and currently doesn't need re-establishment.
3. General Note:  
If the stand of Bermuda grass in any field falls below 80% coverage, then the field (or specific problem areas) will be sprigged with 30-40 bushels of Bermudagrass sprigs per acre in March or early-April, or seeded with 10-15 lbs per acre Cheyenne Bermudagrass seed in April or May. If weeds caused the problem with grass coverage, the weed problem is to be addressed BEFORE re-seeding or sprigging. In bare areas, a light

disking can be used to incorporate the sprigs. The winter cover crop needs to be removed BEFORE the Bermuda is put out and the pumping schedule adjusted accordingly.

Bermudagrass establishes best at a pH of 6.5. Use the soil test report to determine if lime, phosphorus and potassium additions are needed. If lime is required, apply one-half the recommended amount, because your septage applications will also contain lime. When growth starts, 30 pounds of nitrogen per acre can be applied. After the plants begin to make runners, an additional 30 pounds of nitrogen per acre can be applied. These nitrogen applications are to be documented and kept along with the other application records. If weedy grasses are not a problem, let the new grass grow 8-10 inches tall before mowing. During establishment, frequent mowing will encourage the plants to spread across the soil and discourage weeds. **Do not use any herbicides on young Bermudagrass.**

C. Nitrogen needs for crops grown:

RYE = Realistic Yield Expectation

N App. Rate = Suggested nitrogen application rate

<i>Crop (as hay)</i>	<i>RYE</i>	<i>N App. Rate</i>	<i>Total lbs N/ac</i>	<i>*Gal/ac/yr</i>	<i>Adjusted Gal/ac/yr</i>
Field 1					
Rye	1.5 tons/acre	50 lbs N/dry ton	75	28,840	24,000
Coastal Bermuda	5 tons/acre	40 lbs N/dry ton	<u>200</u>	76,920	<u>26,000</u>
			Total: 275		50,000
Field 2					
Rye	1.5 tons/acre	50 lbs N/dry ton	75	28,840	24,000
Coastal Bermuda	5 tons/acre	40 lbs N/dry ton	<u>200</u>	76,920	<u>26,000</u>
			Total: 275		50,000
Field 3					
Rye	1.7 tons/acre	50 lbs N/dry ton	85	32,690	24,000
Coastal Bermuda	5.5 tons/acre	40 lbs N/dry ton	<u>220</u>	84,610	<u>26,000</u>
			Total: 305		50,000

\* The maximum permitted application is 50,000 gal/acre/yr, with a maximum winter monthly application of 5,000 gal/acre.

Note: Crops will be harvested as hay and trucked off site as cattle and horse feed or other approved uses. The rye may be replaced by wheat, since it provides at least a comparable nitrogen consumption. The "adjusted gal/acre/yr" represents what can be applied so as not to exceed the maximum permitted application rate of 50,000 gal/acre/yr. These adjusted amounts provide 62.4 lb N/acre to the small grain crop and 67.6 lb/acre to the Bermudagrass.

Because the nitrogen needs will not be met, commercial nitrogen fertilizer, such as 10-0-0 can be used IF NEEDED. A Plant Tissue Analysis sample can be collected to determine if the plants are deficient. If fertilizer is used, it is important that the crop N requirements not be exceeded! The small grain can have up to 12 lbs commercial N per acre, and the Bermudagrass can have up to 132 lbs of commercial N per acre. All such additions are to be documented in application records.

D. Monthly/yearly application rate estimates in gallons:

<i>Crop</i>	<i>Maximum Uptake Period</i>
Bermudagrass (hay)	May-September
Small grains (hay)	February-April

As shown in the above table, the small grains (rye, wheat, etc.) have their maximum nutrient uptake during February through April. There is some uptake, however, as the crop first grows and becomes established. It is generally recommended that 1/3 of the nutrients be applied during the lower growth months (November-January) and the remaining 2/3 be applied during February-April (see next table). It is understood, however, that homeowner pumping requests are greatest during the winter months. The gallons/acre recommendations, therefore, are given in both "best" and "allowable" versions. In order to get more customers to request summer pumping, you may want to offer a "price incentive" (i.e., have a summer price that is less than the winter price). This would reduce your risk of either an application or crop cover violation. Again, this is just a recommendation.

<i>Month</i>	<i>Field 1, 2, &amp; 3</i>
	<i>application per acre</i>
	<i>Rye and Bermuda</i>
January*	low
February*	low
March*	medium
April	medium
May	medium
June	high
July	high
August	high
September	medium
October	medium
November*	low
December*	low

Low = up to 5,000 gallons; medium = up to 10,000 gallons; high = up to 15,000 gallons

\* These months can have wetter soil conditions than during the other months. It is exceedingly important that the applications be applied to the largest surface area practicable, so as not to have any ponding or runoff and to minimize untrafficable areas

Note: Application dates are approximate and subject to adjustments due to weather and crop growth. This site does have a 30-day rest period prior to harvest, as the crop is used as forage. Applications among the fields should be staggered to allow for the rest period.

For each field, the winter grain crop is being harvested as hay. Regulations mandate that a crop be planted or break dormancy within 30 days of any application of septage. The fields shall not to be disked, unless the Bermuda is to be re-sprigged or seeded.

**E. Application method:**

The preceding information is based on septage being **evenly applied** over the entire permitted site by pumper truck with a splash plate. If the entire field is not covered each time, markers or some form of consistent rotation are needed to ensure that one portion of the field is not more heavily loaded than other portions of the field. This can be done by dividing each field into sub-fields (ex.: 1a, 1b, 1c, etc.).

An application record for each sub-field is highly recommended. Waste record forms SLUR-1 and SLUR-2 can be used for record keeping. These and additional forms are available from the local Cooperative Extension office. Joe Gallo (DENR) also has forms that may be used for recordkeeping.

**F. Additional fertility requirements:**

Optimum nitrogen uptake will not occur if the concentrations of other nutrients limit the crop growth. Septage does not provide adequate supplies of all necessary nutrients over a prolonged period of time, so periodic supplements may be required. These maintenance applications should be based on annual soil test analyses. The soil samples should be taken in late Fall or early Winter, so that the supplements can be added in the Spring prior to the Bermudagrass breaking dormancy. **DO NOT FOLLOW THE NITROGEN RECOMMENDATION FROM THE SOIL TEST REPORT!** You are to use the nitrogen amounts given in this waste application plan.

A separate soil sample should be collected for the buffer areas. Commercial fertilizer applications to the buffers are to be based on the soil sample results. If you have questions, feel free to ask a Certified Waste Management Plan person in the local Cooperative Extension or Soil & Water Conservation offices.

**G. Harvest of the crops and their use:**

1. The Bermudagrass will be cut as hay and baled at four- to five-week intervals or when it is 12 to 15 inches tall, whichever comes first. Recommended Bermudagrass practices are detailed in the Extension publication, *Bermudagrass Management in North Carolina*.
2. The small grains will be cut and baled as hay during April to early May.
3. The baled crops will be transported off site and used in an approved method.
4. A 30-day waiting period must be observed between the last application of septage and harvest. Beginning about the first of March each year, septage will not be applied to one of the fields for 30 days. Roughly 15 days after withholding application from one field, application will be withheld from a second field for 30 days. After another 15 days, application will be withheld from the last field. The small grain in the first field will be harvested and septage application switched to this field. See diagram below:

March	April	May	Continue rotation
Withhold application 30 days from a field	Cut, apply 30 days	Withhold application 30 days	through summer with the Bermuda...
2 <sup>nd</sup> field: Apply	Withhold application 30 days	Cut, apply 30 days	Withhold application 30 days
3 <sup>rd</sup> field: Apply	Withhold application 30 days	Cut, apply 30 days	Withhold application 30 days

By early May, a rotation is established between the three fields for Bermudagrass harvests. By the end of October, the small grain will have been planted and the entire site will be available for septage application until the end of February the following year. This cycle will then continue until your next plan update or other instructions from either DENR or a Certified Waste Management Plan person. Any changes are to be put into writing, placed in your plan file, and copies given to the appropriate agencies.

## H. Records required to be kept for five years:

Soil tests are to be done annually and the reports kept. Although nitrogen and phosphorus are the main nutrients of interest, some micronutrients are also of concern. When either the soil test zinc or copper index reaches 2000, it is strongly recommend that alternative fields be located. Once these index values reach 3000, this septage plan becomes void.

1. Check your soil test results and compare them to the follow table:

<i>Pollutant</i>	<i>Maximum Cumulative Loading Rate (kilograms per hectare)</i>	<i>Equivalent Soil Test Report Value (parts per million)</i>
Zinc	2800	1400
Copper	1500	750
Cadmium	39	19.5
Nickel	420	210
Lead	300	150
Selenium	100	50
Arsenic	41	20.5
Mercury	17	8.5

2. Septage pumping log (modified SLUR-1 or DENR version)
3. Septage land application log (modified SLUR-2 or DENR version)
4. Septage land application log cover sheet with signed certification

The NC Septage Management Rules (15A NCAC 13B .0822(e)) and the Federal Rules (40 CRF 503.17(b)) require that specific information be recorded and maintained for septage land application sites. Incomplete record keeping may result in penalties. If you do not include the required records your site may not be re-permitted. If you have more than one site and each site has a separate permit number, the records for each must be maintained separately.

One **Septage Land Application Log Cover Sheet** is to be attached to each set of log forms submitted to DENR. The **Septage Pumping Log** (modified SLUR-1) is used to record septage pumped by the firm. The **Septage Land Application Log** (modified SLUR-2) is used to record how the septage is treated and land applied. All blocks are to be completed. One Septage Land Application Log is to be kept for each field and crop.

Although not required, crop harvest records are strongly recommended.

Questions regarding the regulations? Contact the Land Application and Composting Branch at 919-508-8511.

N

### Soil Erosion and Runoff Control Plan

Natural Resource Conservation Service best management practices (BMPs) are readily available and directly applicable to seepage application sites. Some recommended BMPs for this site include:

1. Maintain a vegetative cover. At any time of the year, crops or their residue should be present on the site.
2. Manage soil surface for maximum infiltration. Minimize soil disturbance by drill planting the winter small grain crop. If soil compaction should become evident (ponding of applied seepage), use a subsoiler to loosen the soil and improve infiltration. Field traffic should be kept to a minimum.
3. Maintain vegetation on swales, ditch channels, and all other field exits for storm water runoff. Bermudagrass buffers at least 50 feet wide should be maintained around the site. A 200 ft buffer is to be maintained in areas adjacent to streams. If additional control or screening is needed, contact the Soil & Water Conservation office to see if the site qualifies for Cost Share assistance. They may be able to help you get trees or shrubs.
4. Extra care and control may be needed on those areas with increased slope. If possible, field edges should be shaped to detain runoff.

Nutrient management and erosion control plans are not static instruments; they are blueprints for planning and optimizing the defined crop use goals. As crop use goals or site conditions change, the management plan may need to be amended. Information sources, such as Cooperative Extension or Soil & Water Conservation, should be used on an ongoing basis

Ray P Heath Sr.

2-25-2015

Submitted by: Ray Heath Septic Tank Sr. Date: 1-30-2009

Soia

Date

Plan prepared by: Diana M.C. Rashash Date: 02/10/2015

Address: Diana M.C. Rashash, PhD  
North Carolina Cooperative Extension  
4024 Richlands Hwy.  
Jacksonville NC 28540

Phone: (910) 455-5873  
Fax: (910) 455-0977  
email: diana\_rashash@ncsu.edu

for 2014

# SEPTAGE LAND APPLICATION LOG

## COVER SHEET

Roy P Heath &

Site Operator: Roy Heath Septic Tank Serv

SLAS Permit #: 31-10

Site Location: off SL Rd 1710 - left of Summer Rd. Rish  
(street address for the site or latitude and longitude) on Horse Pen Branch Rd.

Number of acres permitted: 13

Permitted application rate: 50,000  
(gallons septage per acre per year)

Crop(s): Coastal Bermuda - wheat

Crop nitrogen requirement(s): 37.5 - 239  
(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."

Roy Heath &  
(signature)

4-16-2013  
(date)



# SEPTAGE LAND APPLICATION LOG COVER SHEET



Site Operator: Roy Heath Septic Tank Service

SLAS Permit #: 31-10

Site Location: 644 Rt Rd 1710 - Bishton Horsepen Branch Ln  
(street address for the site or latitude and longitude)

Number of acres permitted: 13

Permitted application rate: 50,000  
(gallons septage per acre per year)

Crop(s): Coastal Bummek Sugar Sudan

Crop nitrogen requirement(s): 37.5 - 237  
(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."

Roy Heath J  
(signature)

2-25-2015  
(date)

For 2014