



## 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

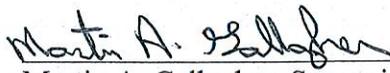
### PERMIT TO OPERATE A SEPTAGE LAND APPLICATION SITE

Cooper Septic Tank Service, LLC  
Emily & Randall Cooper  
P.O. Box 645  
Wagram, NC 28396

is hereby permitted to operate Septage Land Application Site with permit # **SLAS-78-20** located on SR#1308 in Robeson County at approximate position 34.82905° N latitude and -79.34604° 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 1/8/2016

  
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 This permit shall become void if the soils fail to adequately assimilate the septage and shall be rescinded unless the site is maintained and operated in a manner which will protect the assigned water quality standards of both surface and ground waters.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 Emily and Randall Cooper and approved by the Division of Waste Management. **The 18.7-acre site is established in bermuda and shall be managed as one field.** The mandatory 30-day waiting period between the last application of septage and the harvest of a crop shall be maintained by utilizing an alternative disposal location approved by the Division. 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 Emily and Randall Cooper in such a manner as to prevent the migration of wastes off of the designated waste receiving site. A 50 foot buffer planted in bermuda and small grains should suffice. 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 and grease septage.** Domestic septage pH shall be raised to 12 or higher by alkali addition and, without the addition of additional alkali, shall remain at 12 or higher for 30 minutes prior to land application. 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. **The land**

**application of commercial/industrial septage shall only occur after a waste analysis has been performed and approval has been granted by the Division.**

7. **This site contains approximately 18.7 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 935,000 gallons may be applied to this site. The maximum annual application rate assumes equal septage distribution, on an annual basis, over the entire permitted area. Application rates to the disposal fields shall not exceed the maximum annual application rate or the monthly application 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 17,980 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 January 8, 2017.** Modifications, when necessary, shall be made in accordance with the rules in effect at the time of renewal. An application for permit renewal shall be submitted at least ninety (90) days prior to the permit renewal date. A septage application log for the period of time this permit was valid shall be submitted along with an application for permit renewal or modification. The information required in the log is described in Rule 15A NCAC 13B .0838(e)(1) of the NC Septage Management Rules and the Code of Federal Regulations, 40 CFR Part 503.17(b).
16. Records shall be kept in accordance with 40 CFR 503.17(b). These records shall be made available to a representative of the Division upon request.
17. Any duly authorized officer, employee, or representative of the Division may, upon presentation of credentials, enter and inspect any property, premises, or place on or related to the disposal site and facility at any reasonable time for the purpose of determining compliance with this permit; may inspect or copy any records that must be kept under the conditions of this permit; or may obtain samples of groundwater, surface water, or leachate.
18. Field separations in the nutrient management plan and all pertinent setbacks shall be clearly located on the site. Boundaries of the permitted septage land application fields shall be clearly marked on the ground. **A setback of 5 foot or greater shall be maintained between the disposal field and the timbered wood line on the west (back) side of the site.**
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, within 100 feet of any ditch or within 200 feet of any surface water unless specified otherwise.**



Waste Management  
ENVIRONMENTAL QUALITY

PAT MCCRORY  
*Governor*

DONALD R. VAN DER VAART  
*Secretary*

LINDA CULPEPPER  
*Director*

January 8, 2016

Emily & Randall Cooper  
Cooper Septic Tank Service  
P.O. Box 645  
Wagram, NC 28396

**RE: SLAS permit issuance  
Cooper Septic Tank Service  
SLAS-78-20  
SR#1308 in Robeson County**

Dear Ms. & Mr. Cooper:

The NC Division of Waste Management has reviewed your application for a Septage Land Application Site permit in Robeson County. Your application has been approved and your permit, # **SLAS-78-20**, is enclosed. If you have any questions about your permit, we'll need the number in order to answer your questions.

Please read all of your permit conditions carefully. Your nutrient management and soil erosion and runoff control plans have been included in your permit's conditions. In particular, review Permit Condition 15, which states that you will need to submit septage application logs for your site in order to renew your permit. These logs need to cover the entire time your current permit is valid. For details on the information you should include, consult the NC Septage Management Rule 15A NCAC 13B .0838(e)(1) and the Federal register's 40CFR Part 503.17(b). This permit condition also states that this permit is valid until **January 8, 2017**. If you have any questions, please ask for assistance as rule violations could expose you to administrative penalties.

Please note that to land apply industrial or commercial septage at a permitted septage disposal site you must have **prior approval** from the NC Division of Waste Management. The waste must be sampled prior to being removed from the system. Generally, the Division will request that you have a waste analysis run on septage from each commercial or industrial septage generator before that type of septage is approved for land application.

Use of a land application site or septage detention or treatment facility that is not permitted may result in administrative penalties up to \$15,000 per violation in accordance with NC General Statute 130A-22.

If you have any questions, please contact me at (910) 433-3352 or Martin Gallagher at (919) 707-8280.

Sincerely,

Connie S. Wylie, Soil Scientist  
Division of Waste Management, NCDEQ

Enclosures

cc: files

Robeson County Health Department

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# APPLICATION FOR A PERMIT TO OPERATE A SEPTAGE LAND APPLICATION SITE

RECEIVED  
SEP 02 2015  
FAYETTEVILLE REGIONAL OFFICE

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 Cooper Septic Tank Service, LLC  
Address 387 S Hilltop Rd  
Red Springs NC 28377  
Phone 910-369-2713

2. Contact person for site operation (if different from applicant): Emily Cooper  
Title or position owner Phone 910-369-2713  
Address P.O. Box 645  
Wagram, NC 28396

3. Landowner Randall Cooper & Emily Cooper  
Address LSR 1308 McGirt's Rd Maxton, NC  
28364

4. Site Location: County Robeson State Road Number SR 1308  
Directions to site: West of SR 1308 just North of SR 1310 in  
Western Robeson Co

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

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

Existing site permit number: \_\_\_\_\_ permit expiration date: \_\_\_\_\_

6. Number of acres meeting the requirements of the N.C. Septage Management Rules: \_\_\_\_\_ 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): Lumberton Wastewater Treatment Plant, Moore County WWTP  
Proposed new site for Scotland County, Storage tank
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): Bring PH to 12 Add enough hydrated lime to raise the ph to 12 and hold to 12 for 1/2 hour for domestic (or for 2 hours for grease) prior to land application All septage shall be ph 12 for land application to occur
6. Proposed method of applying septage to land, including septage distribution plan if required \* (use additional paper to explain if necessary): Following nutrient management plan  
Applying from a moving truck using a bull tongue at least  
12' to 15'
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): all 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.

Emily M Cooper Randall Cooper  
Signature\*\*\*

09/20/15 7/20/15  
Date

Emily M Cooper Randall Cooper  
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.

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SEP 02 2015

**Landowner's Authorization to Operate a Septage Land Application Site**

DIVISION OF WASTE MANAGEMENT  
FAYETTEVILLE REGIONAL OFFICE

North Carolina Department of Environment and Natural Resources  
Division of Waste Management - Solid Waste Section  
1646 Mail Service Center, Raleigh, NC 27699-1646

I, Randall Cooper + Emily Cooper (name of site owner) hereby certify that I am the owner of 68.29 acres of land located McGirt Rd Maxton, NC 28364 and identified by SR 1308 (book and page of recorded deed or tax map parcel) and that I agree to allow Cooper Septic Tank Service (name of site operator) to use said land for septage land application for a period of 5 years (length of time), beginning July 20th, 2015 (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 Emily M Cooper and Randall B Cooper (names of all co-owners, or state none).

Signature of landowner Emily M Cooper Date 7/20/15

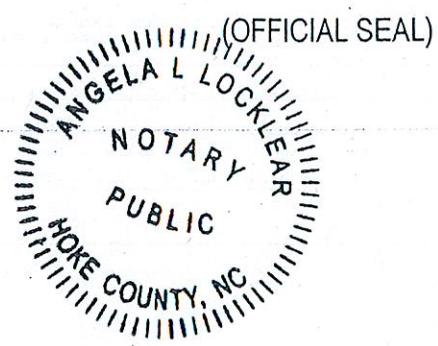
Signature of landowner Randall B Cooper Date 7/20/15

Sworn to and subscribed before me this 26th day of August, 20 15.

Angela L. Locklear  
(Notary Public)

My Commission expires: 11/23/18

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



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SEP 02 2015

**Nutrient Management Plan For Septage Applications to  
Coastal Bermudagrass and Small Grains**

DIVISION OF WASTE MANAGEMENT  
FAYETTEVILLE REGIONAL OFFICE

Prepared for:  
Woodrow Cooper Septic Service  
P.O. Box 645  
Wagram, NC 28396  
(910) 318-3478

**A. General Information**

1. Sampling of septage for waste analysis, NCDA & CS soil sample for nutrient and metals to be done annually.
2. Total acres of 68.29 acres of which <sup>18.7</sup>~~34~~ acres is the septage application site and will be treated as one field.
3. Dominant soil series is Johns (Jo).
4. Septage will not be applied where the site is untrafficable or a loaded truck leaves a depression 3 inches or greater and/or soil moisture is too great to adequately absorb the septage.
5. 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 water treatment plant, should be in place.

**B. Crops to be grown and approximate planting and harvesting times.**

1. The field is already established in hybrid bermudagrass. The recommended rate of Nitrogen to apply is between 40-60 pounds per acre after each cutting of hay to maintain the stand. This would be 3-4 times or 120-180 pounds per year. If septic waste meets this requirement, then no additional nitrogen is recommended.
2. Areas that develop with less than 80% groundcover by Bermuda will be re-sprigged with bermuda at a rate of 40-60 bushels per acre in the month of April. Sufficient ground cover of the approved crop (Bermuda/small grains) is required for land application to occur.
3. Each year thereafter, the field will be overseeded with annual rye grass or wheat at a rate of 100-120 lbs per acre in October or November.

### C. Nitrogen needs for crops grown

R.Y.E. = Realistic Yield Expectations

N application rate = suggested N application rate based on RYE for soil type

Crop	R.Y.E.	N app rate	lbs/acre
Small grains			
Wheat or Rye	55 bushels/acre	x 1.93 lbs/bushel =	106.15
Hybrid bermudagrass	5.0 tons/acre	x 43 lbs/ton =	215
<b>Total possible N application =</b>			<b>321.15 lbs/acre</b>

### D. Relative application rates for the field

Month	Field
January	Low
February	Low
March	Medium
April	High
May	Medium
June	High
July	High
August	Medium
September	Medium
October	Low
November	Low
December	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.

### E. Application Method

The preceding information is based on septage being evenly applied over the entire permitted site using normal septage application equipment.

### F. Additional Fertility Requirements

Additional nitrogen supplied will not exceed the Total N requirement of the crop. Phosphorus and potassium will be added in accordance with the soil test results for the crops grown.

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

1. The bermuda grass will be cut as hay and baled whenever it reaches approximately 12-18 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 unless under drought conditions.
2. The small grains will be cut as hay and baled in March - May of each year.
3. Records and amounts of round or square bales harvested from site will be kept, as will yields from the small grains after each harvest.
4. The septage applied forage will be harvested by contracting a third party to cut and harvest the hay for animal feed.
5. A 30-day waiting period must be observed between the last application of septage and harvest. This site is managed as one field and the required 30-day waiting period shall be followed by utilizing an alternative disposal location such as a wastewater treatment plant. *or SLAS 83-04, W.S.G.*

## **H. Weed Control**

1. Weed control may be needed in order to maintain 80% groundcover and to produce the realistic yield expectations for the approved crop stand. Weed control may be obtained through different methods (mowing or herbicides) or a combination of methods. For specific recommendations, proper identification of the weed or weeds is necessary. The local cooperative extension agent or regional agronomist may be contacted for advice.

## **I. Buffers**

1. Soil erosion and runoff control plan - Given that slopes on this site do not exceed five percent, a 50 foot buffer, planted in bermuda and small grains, should suffice to prevent septage waste from migrating off of the fields. (More severe site conditions could require that soil erosion structures be installed before septage can be applied).

Submitted by: Woodrow Cooper Septic Service

Signature: Emily M Cooper Date: 11-13-15  
Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Plan prepared by: Taylor Chavis Date: 08-06-15  
Robeson County  
Livestock Extension Agent  
P.O. Box 2280  
Lumberton, NC 28359  
910-671-3276  
Email: [taylor\\_chavis@ncsu.edu](mailto:taylor_chavis@ncsu.edu)

Signature: Taylor Chavis Date: 8/6/15

# SLAS-78-20

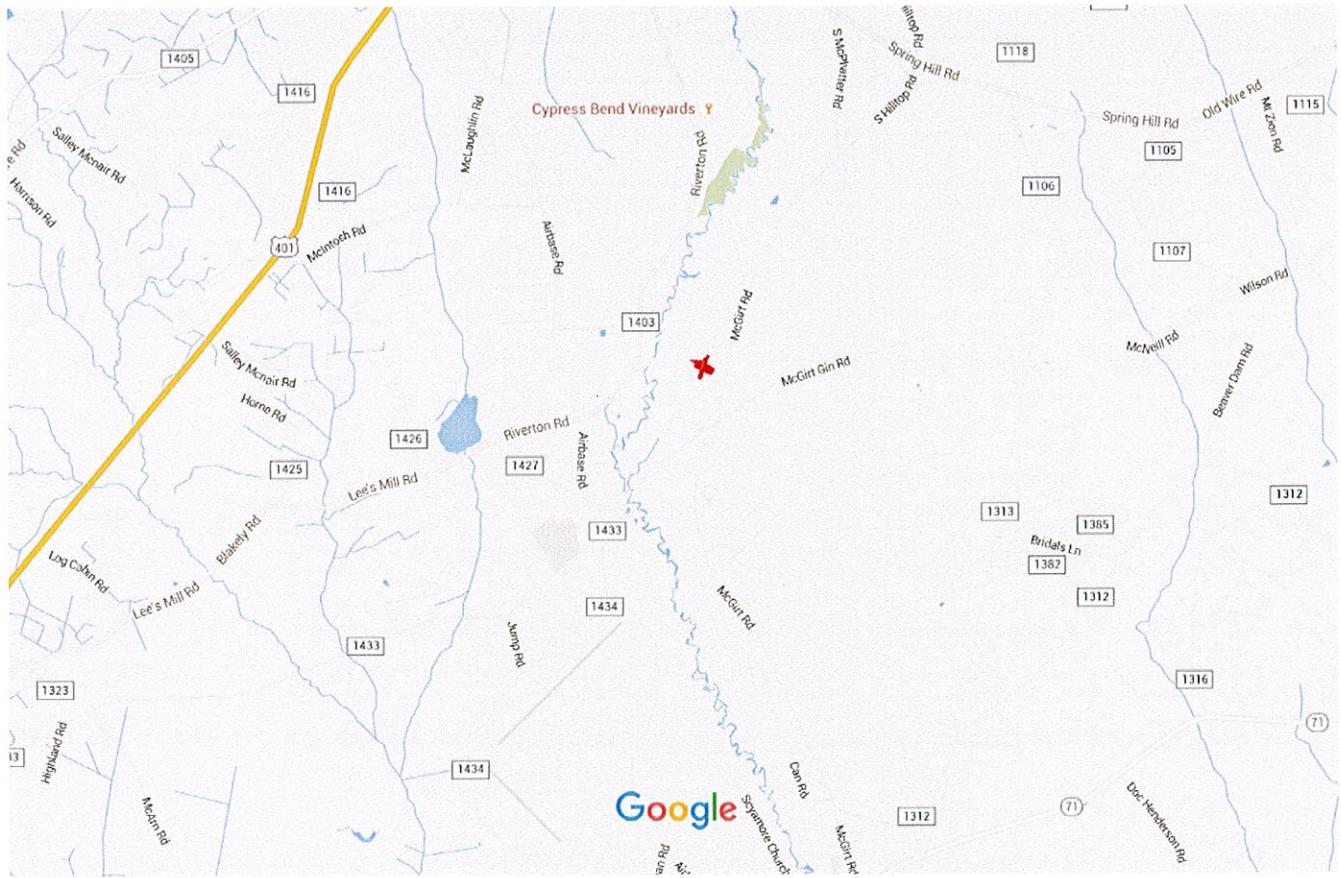
34.82905° N latitude  
-79.34604° E longitude



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

1 in = 300 ft

crc, Dec. 2015



Map data ©2016 Google 1 mi

Google Maps