



Facility Permit No: SLAS-92-03  
Pearce Backhoe & Septic Tank Service  
Permit to Operate  
July 25, 2013  
Page 1 of 4

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**

Pearce Backhoe & Septic Tank Service  
Frank C. Pearce, Jr.  
5008 Rogers Road  
Rolesville, NC 27571

is hereby permitted to operate Septage Land and Application Site with permit # **SLAS-92-03** located on SR#2052 in Wake County in approximate position 35.92178° N latitude and -78.47310° 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 7/25/2013

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

1646 Mail Service Center, Raleigh, North Carolina 27699-1646  
Telephone 919-707-8200 \ Internet <http://portal.ncdenr.org/web/wm/sw>

## CONDITIONS OF OPERATING PERMIT

1. This permit shall become void if the soils fail to adequately assimilate the septage and shall be rescinded unless the site is maintained and operated in a manner which will protect the assigned water quality standards both surface and ground waters.
2. This site shall be operated and maintained in accordance with the nutrient management plan submitted by Frank C. Pearce, Jr. and approved by the Division of Waste Management. **The 15.5-acre site shall be divided into five fescue fields known as Field 1 (1.8 acres), Field 3 (2.7 acres), Field 4a (4.5 acres), Field 4b (4.1 acres) and Field 4c (2.4 acres).** The permitted disposal acreage for Field 3 was decreased and Field 2 was removed from the permitted disposal area due to nearby road construction and setback requirements. **The 30 day waiting period between the last application of septage and the harvest of a crop shall be maintained.** 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 among the five 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 Frank C. Pearce Jr. in such a manner as to prevent the migration of wastes off of the designated waste receiving site. Any site improvements noted in the plan must be installed within 30 days of plan approval. The installation of groundwater monitoring wells shall be required as deemed necessary by the Division.
4. The issuance of this permit does not preclude the Permittee from complying with any and all statutes, rules, regulations, or ordinances that may be imposed by other local, state, and federal government agencies which have jurisdiction. It is the responsibility of the Permittee to be in compliance with the Federal Regulations listed in the Code of Federal Regulations, 40 CFR Part 503.
5. This permit may be modified or reissued at any time to incorporate any conditions, limitations and/or monitoring requirements the Division deems necessary to adequately protect the environment and public health.

6. **This site is only permitted for the land application of domestic septage.**  
Domestic septage pH shall be raised to 12 or higher by alkali addition and, without the addition of additional alkali, shall remain at 12 or higher for 30 minutes prior to land application.
7. **This site contains approximately 15.5 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 rate of 775,000 gallons.** This application rate assumes equal septage distribution, on an annual basis, over the permitted area. Monthly septage applications shall not exceed the monthly relative application rates given in the approved nutrient management plan for the site.
8. An approved above ground septage detention system with a minimum design capacity of 14,903 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 July 25, 2018.** 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. **As land application has not occurred at this site in a long time, setbacks shall be verified by the Division or Wake County staff and additional field markers posted prior to land application.**
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, within 100 feet of any ditch or within 200 feet of any surface water unless specified otherwise.



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July 25, 2013

Mr. Frank C. Pearce, Jr.  
Pearce Backhoe & Septic Tank Service  
5008 Rogers Road  
Rolesville, NC 27571

**RE: SLAS permit renewal  
Pearce Backhoe & Septic Tank Service  
SLAS-92-03  
SR#2052 in Wake County**

Dear Mr. Pearce:

The NC Division of Waste Management has reviewed your application to renew a Septage Land Application Site permit in Wake County. Your application has been approved and your permit, # **SLAS-92-03**, 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 **July 25, 2018**. 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 Wylie, Soil Scientist  
Composting & Land Application Branch

# 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 Frank C. Pearce, Jr. / Mrs. Jan-Fon J. Pearce  
Address 5008 Rogers Rd  
Rolesville, N.C. 27571  
Phone 919-556-5018 Cell 919-369-1310

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



3. Landowner Same  
Address \_\_\_\_\_

DIVISION OF WASTE MANAGEMENT  
FAYETTEVILLE REGIONAL OFFICE

4. Site Location: County Wake State Road Number SR 2052  
Directions to site: From S. Main St. Rolesville go West  
on Rogers Rd. 5008 Rogers Rd is on left at city  
limit

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

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

Existing site permit number: 92-03 permit expiration date: Sept 26-13

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): 92-03 and WWT.P. Raleigh + Louisburg  
also Grease Pumping to D+D Septic at Fremont, N.C.
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): Time Stabilization  
add enough hydrated lime, raise pH to 12, hold at pH 12 for a  
half hour for domestic before land application.
6. Proposed method of applying septage to land, including septage distribution plan if required \* (use additional paper to explain if necessary): Vacuum Truck to Spray on land  
after treatment with Hydrated Lime
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): Site is agriculture

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.

\* Frank C. Pearce, Jr.  
 \* LaFon J. Pearle Signature\*\*\*  
FRANK C. PEARCE JR.  
 Print name

8-30-2012  
 Date  
OWNERS  
 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, Frank C. Pearce Jr. (name of site owner) hereby certify that I am the owner of 30± acres of land located 5008 Rogers Rd - Rolesville, N.C. 27571 and identified by Book 2001, Page 117 (book and page of recorded deed or tax map parcel) and that I agree to allow Frank Pearce/Pearce Backlot (name of site operator) to use said land for septage land application for a period of ? (length of time), beginning ? (month, day and year) and that I have read the North Carolina Septage Management Rules \*, and I understand and agree to maintain the restrictions on land use after septage land application ends \*\*. I further understand that no septage may be land applied until the Division of Waste Management has issued a permit for a septage land application site. The above described property is owned solely by me or jointly with Lan Jon J. Pearce - Wife (names of all co-owners, or state none).

Signature of landowner Frank C. Pearce Jr. Date 8-30-2012

Signature of landowner Lan Jon J. Pearce Date 8-30-2012

Sworn to and subscribed before me this 30th day of August, 2012.

Lilli B. Grew  
(Notary Public)

(OFFICIAL SEAL)

My Commission expires: January 12, 2017

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

\*\* As required by Rule .0843

**Nutrient Management Plan**  
 Update - [REDACTED] 6/25/13



**Frank C. Pearce, Jr**  
**5008 Rogers Road**  
**Rolesville, NC 27571**  
**Phone: 369-1310**

**Section A: General Information**

1. Septage will be sampled and submitted for waste analysis at least 3 times per year. These are used to monitor loadings rates.
2. Fields, crops and acreages are as follows:

<u>Field</u>	<u>Acreage</u>	<u>Crop</u>	<u>Soil Type</u>
Field 1 - 1.8 [REDACTED] acres		Fescue	LwC
Field 2 - 0 [REDACTED] acres		Fescue	LwC
Field 3 - 2.7 [REDACTED] acres		Fescue	LwC
Field 4a - 4.5 [REDACTED] acres		Fescue	ApB2
Field 4b - 4.1 [REDACTED] acres		Fescue	DuC
Field 4c - 2.4 [REDACTED] acres		Fescue	LwC

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3. Septage application will not be allowed where the soil is untrafficable (defined as soil conditions where a loaded truck will leave a depression in the sod or soil greater than 3 inches deep).
4. Septage storage will be adequate, so as to provide storage for the average volume of septage pumped per week should soil conditions prohibit field application. An alternative plan should be in place for extended periods of wet weather, such as disposal at a municipal waste treatment facility.
5. Clearly make all field boundaries.
6. Do not apply septage within the 50 foot buffer zone around all fields.
7. Crop must be planted within 30 days of the first septage application for each field.
8. All nitrogen recommendations will be based on realistic yield expectation for the crops to be grown. (Note\* If forages receiving septage are grazed, the nitrogen rate will be reduced to 75% of the full rate to account for manure deposition from the animals.)
9. Note that a 30 day waiting period must be observed between the last application of septage and any removal or harvest of the crop.
10. You are required to lime stabilize the septage to pH of 12 for 30 at least minutes prior to land application. It must be pH 12 during application.

## Section B: Crops to be grown and plant schedule:

**General:** Control weeds while fescue is being established / replanted. Consult the latest edition of the "North Carolina Agricultural Chemical Manual" for labeled herbicides

**For All Fields:** Continue maintaining existing stand of fescue, replanting in fall (preferred) or spring as needed if stand does not maintain adequate ground cover and nutrient uptake.

**Fall Fescue Establishment / Reestablishment:** Maintaining a good stand of grass is important for pollution control and nutrient uptake. Should grass need to be reestablished, seed fescue between August 25 – Sept 25. It can be broadcast at 15-20 lbs per acre OR drilled at 10-15 lbs. Recommended seeding depth is 1/4".

If necessary to maintain stand of fescue, spring establishment is possible if weather permits. As in the fall, broadcast at 15-20 lbs per acre OR drilled at 10-15 lbs. Recommended seeding depth is 1/4".

## Section C:

### Nitrogen Rates for Fescue Crop Based on Soil Type

<u>Field</u>	<u>R.Y.E.</u>	<u>N Application Rate</u>		<u>Lbs N / Acre</u>
1, 3, 4c (LwC soil)	2.5 tons/Ac	45 lbs N / dry ton	=	115*
4b (DuC soil)	3.8 tons /Ac	45 lbs N / dry ton	=	170*
4a (ApB2 soil)	4.9 tons / Ac	45 lbs N / dry ton	=	220*

- Fescue managed as hay crop and removed from fields. Yield adjusted based on typical Realistic Yield Estimate (R.Y.E) for the crop, soil, and soil slope factor.
- Source: Realistic Yield Expectation for Soils of NC, NC State University – 4/00

## Weed Control

Weed control may be needed in order to maintain 80% groundcover and to produce the realistic yield expectations for the approved cropstand. Weed control can 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.

## Relative Application Rates for all Fields by Month

January	low
Feb	low
Mar	med
April	high
May	med
June	low
July	low
Aug	low
Sept	low
Oct	med
Nov	low
Dec	low

Low = up to 5,000g / acre

Med = up to 10,000 g

High = up to 15,000g

\*\*\* Note: Cumulative application rate is not to exceed the permitted application rate.

### D. Cropping Plans for All Fields

All fields to continue to be planted and maintained in fescue

### E. Application Method

Septage should be uniformly spread over the entire permitted site at recommended rates with a suitable, calibrated spreader. Septage will be lime stabilized prior to application to established crops.

### F. Additional Fertility Requirements

Phosphorus and potassium must be applied as recommended in the soil test results to insure a good grass stand. \*\*\*Note: also fertilize buffer areas as recommended to maintain grass stand (separate soil test is recommended for these areas.)

**G. Harvest and Use of Fescue**

The fescue will be cut and removed whenever it reaches approximately 12 inches in height. The first cutting should be made in April, then cut as weather condition dictate, cutting each time the fescue reaches 12 in. tall. The hay will be removed in a timely manner after each cutting and used as cattle feed. \*\*\*Note: A 30 day waiting period must be observed between the application of septage and cutting.

**H. Soil and Erosion Control Plan**

Crop stand and buffer areas surrounding fields where septage is applied must be maintained to protect water quality. A grass / tree buffer surrounds the entire site and which will help prevent runoff during rainfall events. The existing established grass stand and conservation practices in place must be maintained.

Submitted by:

**Frank C. Pearce, Jr**  
**5008 Rogers Road**  
**Rolesville, NC 27571**  
**Phone: 369-1310**

Frank C. Pearce, Jr. sign  
7-2-08 date

Prepared by:

Date: 7/2/08  
Mitch Woodward  
Area Specialized Agent - Environmental Education  
North Carolina State University  
College of Agriculture and Life Sciences  
North Carolina Cooperative Extension  
4001 E. Carya Drive  
Raleigh, NC 27610  
919.250.1112 - phone  
919.250.1097 - fax

Mitch Woodward  
7-2-08

Frank C. Pearce, Jr.  
★ Signature

6-25-13  
Date

# SLAS-92-03

35.92178° N latitude  
-78.47310° W longitude



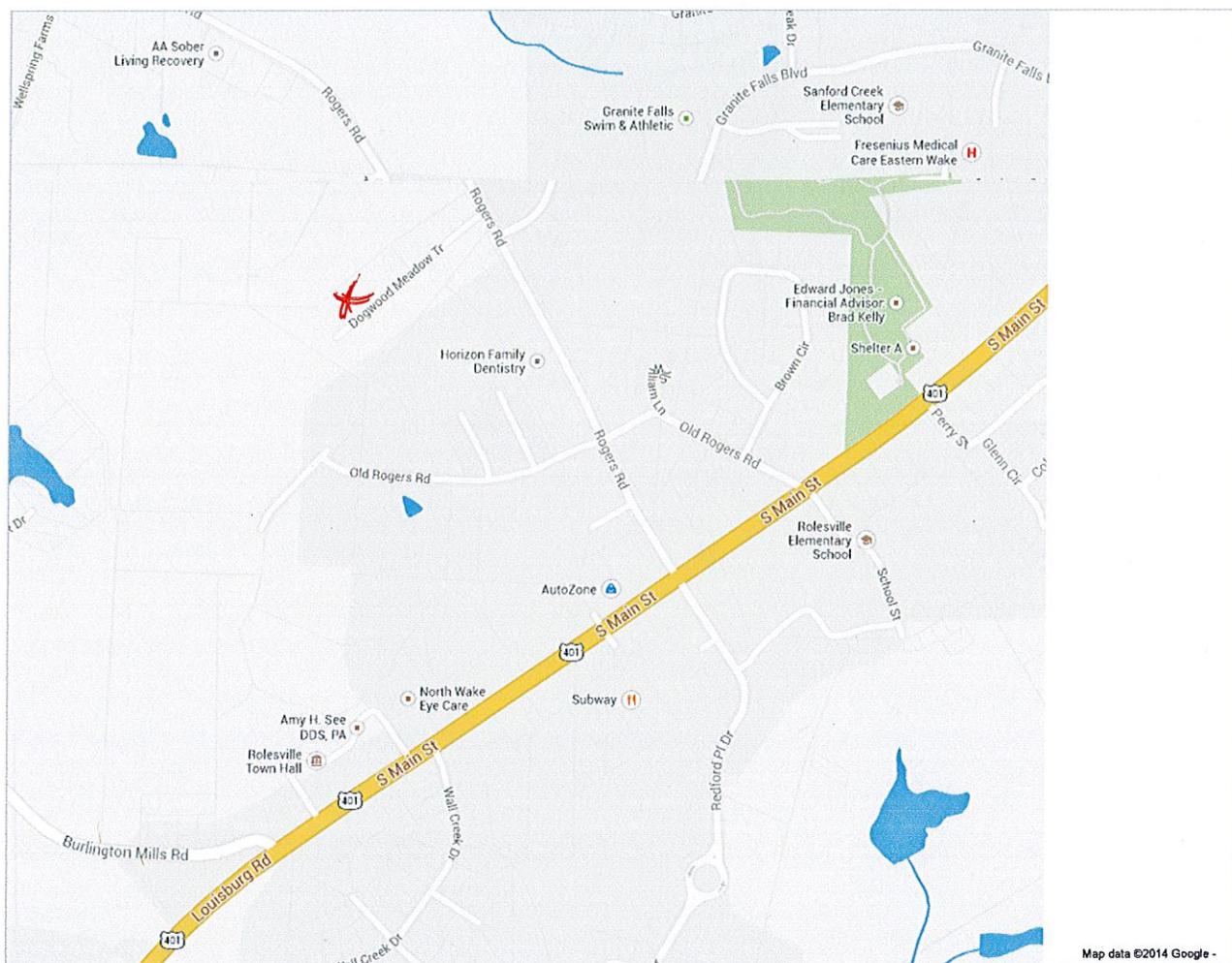
Source: Bing Maps aerial imagery, ESRI, (c) 2010 Microsoft Corporation and its data suppliers; field boundaries, NC DENR Division of Waste Management.

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

crc, Oct. 2012



To see all the details that are visible on the screen, use the "Print" link next to the map.



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