

STATE OF NORTH CAROLINA
DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
DIVISION OF WASTE MANAGEMENT

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

Wilkins Septage
Mary Wilkins
3737 Glen Road
East Bend, NC 27018

is hereby issued a permit to operate Septage Land Application Site with permit #**SLAS-99-03** located on SR#1528 in Yadkin County in approximate position 36.23795° N latitude and -80.59444° W longitude. The site is to be operated in accordance with 15A NCAC 13B .0800 Septage Management, the information stated in the approved application, and the conditions of this permit. The unauthorized disposal of any liquid or solid wastes other than those specified in the conditions of this permit will be considered a violation of the conditions of this permit. Failure to comply with the conditions of this permit may result in permit suspension, permit revocation, action for injunctive relief, administrative penalties, or other remedies as provided in G.S. 130A, Article 1., Part 2.

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 affect at the time of review.

Date Issued 9/27/2012


Martin A. Gallagher, Branch Head
Solid Waste Section

Permit Conditions:

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 This permit shall become void if the soils fail to adequately assimilate the septage and shall be rescinded unless the site is maintained and operated in a manner which will protect the assigned water quality standards of both surface and ground waters.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 Mary Wilkins and approved by the Division of Waste Management. **The 5-acre site shall be divided into two approximately equal-sized fields known as Fields 1 and 2.** Both fields shall remain established in tall fescue. 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 the harvest between the two permitted fields on the site. 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 Mary Wilkins in such a manner as to prevent the migration of wastes off of the designated waste receiving site. A 50-foot buffer of tall fescue shall be maintained around the perimeter of the permitted 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 which 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 requirements of 40 CFR 503.
5. This permit may be modified or reissued 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 5 acres that are available for septage land application.** The maximum annual application rate shall be 50,000 gallons per acre per year, for a total maximum annual application rate of 250,000 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 4,800 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 as to have no standing water when the discharge is complete. Septage shall not be applied during periods of high soil moisture.

Operator: Mary Wilkins
SLAS #: 99-03
County: Yadkin

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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 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 void 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 shall discharge septage at this site without prior appropriate notification and written approval of 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 September 27, 2013.** 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 40 CFR Part 503.17(b) of the Federal Register.
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 which 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.



North Carolina Department of Environment and Natural Resources

Division of Waste Management

Beverly Eaves Perdue
Governor

Dexter R. Matthews
Director

Dee Freeman
Secretary

September 27, 2012

Mrs. Mary Wilkins
Wilkins Septage
3737 Glen Road
East Bend, NC 27018

**RE: SLAS permit modification
Wilkins Septage
SLAS-99-03
SR#1528 in Yadkin County**

Dear Mrs. Wilkin:

The NC Division of Waste Management has reviewed your application to modify **(in regards to a name change)** a Septage Land Application Site permit in Yadkin County. Your application has been approved and your permit, # SLAS-99-03, 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 September 27, 2013. 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. Permit Condition 6 states that commercial/industrial septage shall only be land applied after the waste from each source is tested and the results approved by the Division.

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
401 Oberlin Rd., Ste. 150, Raleigh, N.C. 27605

I. Site and Operator Information

1. Applicant Mary Wilkins
Address 3737 Glenn Rd
East Bend, N.C. 27018
Phone 336-699-8557

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

3. Landowner ~~_____~~ Mary Wilkins
Address 3737 Glenn Rd.
East Bend, N.C. 27018

4. Site Location: County Yadkin State Road Number 1528
Directions to site: Richmond Hill Rd. - Turn Right
on Glenn Rd, 1st house on left.

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

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

Existing site permit number: # 99-03 permit expiration date: 12-31-2011

6. Number of acres meeting the requirements of the N.C. Septage Management Rules: 6 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): SDIF 99-03
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): Domestic Septage will be lime stabilized with hydrated lime to raise the PH to 12 for 30 min 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): A gravity flow out of a tank on the land, from a moving truck with a spreader attachment.
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): # SIAS 99-03 site is agricultural.

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.

Mary Wilkins
Signature***

8-11-2011
Date

Mary Wilkins
Print name

Owner
Title

Note: This application will not be reviewed until all parts of the application are complete.

* Refer to Section .0821(e) of the N.C. Septage Management Rules.

** Refer to Section .0821(g) of the N.C. Septage Management Rules.

***Signature of company official required.

* Mary Wilkins
Signature

* 4-14-2012
Date

RECEIVED

APR 18 2012

DENR--FAYETTEVILLE REGIONAL OFFICE

NUTRIENT MANAGEMENT PLAN
FOR
Glen Wilkins
Wilkins Septic Tank Service
3737 Glen Road
East Bend, NC 27018
Ph: (336) 699-8557
Permit No. 99-03



A. General Information:

1. Septage will be stored on site, and applied to two fields situated on land owned by the operator. Site map attached.
2. Field No. 1 contains approx. 2.50 acres, and Field No. 2 contains approx. 2.50 acres.
3. Septage will not be applied when the site is untrafficable. (Untrafficable is defined as soil that will allow a loaded truck to leave a depression in sod greater than three inches in depth.)
4. Septage storage shall be provided to account for the average volume of septage pumped per week.
5. The dominant soil series at the site is Cecil gravelly fine sandy loam. (Ref: Soil Survey, Yadkin County)
6. Periodic soil sampling (at least once annually, in the last quarter of the year) will be conducted, and samples submitted to the North Carolina Department of Agriculture for analysis.

B. Crops to be grown:

Both fields are currently in well established tall fescue sod. Should either field or portion of field show a stand reduction of 30% or more, the area would be reseeded in a timely manner to assure a fescue stand that will adequately retain septage applied and properly convert the nutrients available. Tall fescue is normally seeded at the rate of 15-20 lbs. per acre, broadcast. Preferred time is August--September, although Feb--March dates may be used if needed.

C. Nitrogen needs for crops grown:

Crop (cut for hay)	RYE*	N applic. rate	lbs. N/ac.
tall fescue	4.5 ton/ac.	45 lb. N/dry ton	200

*RYE = realistic yield expectations, N application rate = the

suggested nitrogen application rate based on realistic yield expectations for the given soil type.

D. Relative application rate for Fields No. 1, and No. 2:

Month	No. 1	No. 2
January	low	low
February	low	low
March	medium	medium
April	high	high
May	medium	medium
June	low	low
July	low	low
August	low	low
September	low	low
October	medium	medium
November	low	low
December	low	low

Low = 5000 gallons; Medium = 10,000 gallons; High = 15,000 gallons per acre.

Note: cumulative application rate is NOT TO EXCEED the permitted application rate.

E. The preceding information is based on septage being evenly applied over the entire permitted site by operator's equipment.

F. Additional fertility requirements:

1. Phosphorus and potassium must be added to field sites in accordance with soil test results for the fescue crop grown. Tests, as noted above, will determine additional amounts of fertilizer materials, if any, that must be added in future years.

2. For proper crop growth, lime, as indicated by soil test, must be added to these fields.

3. The buffer areas should be fertilized with a complete fertilizer, providing recommended amounts of nitrogen as well as any necessary phosphorus and potassium. Half the nitrogen should be applied in February or March and the remainder, either as a complete fertilizer or as a sidedressing, should be applied in September.

G. Harvest of the crops and their use:

1. The fescue will be cut as hay and baled whenever it reaches an approximate height of 12 inches, or roughly every 4-6 weeks, beginning in June. Three or four harvests may be expected, depending upon rainfall.

2. A thirty day waiting period must be observed between the last application of septage and harvest. Beginning about the first of June each year, septage will be applied strictly to field No. 2, while the fescue on field No. 1 is undisturbed for 30 days. After the waiting period has been met, the fescue in field No. 1 will be harvested and septage applications will begin on the harvested field. After an additional 30 day period, the fescue will be harvested from field No. 2 (the second field). This rotation can continue until late October.

3. Baled hay will be stored to be fed to the operator's livestock.

H. Soil Erosion and Runoff Control:

Given the slopes and areas surrounding the fields, a fifty foot buffer of tall fescue, properly fertilized and maintained, should suffice to prevent septage waste from migrating off of the fields. Washes, ruts, or other potential problem areas should be managed in such a manner as to assure that septage waste does not reach ditches, natural drain channels, or other fields.

Submitted by: Mary Wilkins 4-14-2012 ★
Signature Date

Preparation assistance by: Jack L. Loudermilk
Cooperative Extension Service
Yadkin County Center
POB 97
Yadkinville, NC 27055
16 October 2002

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C O U N T Y



