



Facility Permit No: SLAS-78-18
Marshall Cummings Septic Tank Service
Permit to Operate
February 27, 2014
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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**

Marshall Cummings' Septic Tank Service
Marshall Cummings
1234 W. McDuffie Crossing Road
St. Pauls, NC 28384

is hereby permitted to operate Septage Land and Application Site with permit # **SLAS-78-18** located on SR#1743 in Robeson County in approximate position 34.82310° N latitude and -79.04520° 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 2/27/2014


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 This permit shall become void if the soils fail to adequately assimilate the septage and shall be rescinded unless the site is maintained and operated in a manner which will protect the assigned water quality standards both surface and ground waters.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 Marshall Cummings and approved by the Division of Waste Management. **The 12-acre site shall be divided into two fields known as Left Field (5.5 acres) and Right Field (6.5 acres). 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 between the left and right side 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 Marshall Cummings 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 and grease trap pumpings.** 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 industrial/commercial septage shall only occur after a waste analysis has been performed and approval has been granted by the Division.**
7. **This site contains approximately 12 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 600,000 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 11,538 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 August 15, 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.
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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February 27, 2014

Mr. Marshall Cummings
Marshall Cummings Septic Tank Service
1234 W. McDuffie Crossing Road
St. Pauls, NC 28384

**RE: SLAS permit renewal
Marshall Cummings Septic Tank Service
SLAS-78-18
SR#1743 in Robeson County**

Dear Mr. Cummings:

The NC Division of Waste Management has reviewed your application to renew a Septage Land Application Site permit in Robeson County. Your application has been approved and your permit, # **SLAS-78-18**, 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 **August 15, 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 Marshall Cummings
Address 1234 W. McDuffie Crossing Rd
St. Pauls, NC 28384
Phone 910-737-6310

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

3. Landowner Marry Bell Williams / Ronnie Williams
Address 1489 New Bethel Church Rd.
St. Pauls, NC 28384

4. Site Location: County Robeson State Road Number 1743
Directions to site: West St. Pauls, I 95 Exit 31 to SR 1743
Covington Farm Rd. SW to access road Erika Dr. on
East side SR 1743

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

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

Existing site permit number: SLAS 78-18 permit expiration date: May 28, 2014

AUG 15, 2013

6. Number of acres meeting the requirements of the N.C. Septage Management Rules: 12 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. On file

10. Attach a vicinity map (county road map showing site location). On file

(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): SDTF # 78-18

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): 4(a) lime stabilization of domestic septage @ pH 12 for 30 minutes.

(b) Grease-Trap - Lime stabilization pH 12, mix one tank of domestic septage with grease-trappings for 2 hrs.
(d) Commercial/Industrial Septage - Trailer Parks, Restaurants, Homes, Schools - County - Plants in Suburbs - No Chemicals.

6. Proposed method of applying septage to land, including septage distribution plan if required * (use additional paper to explain if necessary): Septage will be evenly applied over the entire permitted site during the course of growing season by moving tank/truck discharge.

7. Demonstration from the appropriate state or federal government agency that the land application site complies with the Endangered Species Law ** or if any part of the site specified is not agricultural land (use additional paper to explain if necessary): Agricultural Land

III. Certification

I hereby certify that:

1. The information provided on this application is true, complete, and correct to the best of my knowledge.
2. I have read and understand the N.C. Septage Management Rules, and
3. I am aware of the potential consequences, including penalties and permit revocation, for failing to follow all applicable rules and the conditions of a Septage Land Application Site permit.

Marshall Cummings
Signature***

6-20-13
Date

Marshall Cummings
Print name

Owner/Operator
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, Ronnie Williams (name of site owner) hereby certify that I am the owner of West St. Pauls, I-95 Exit 31 to SR 1743 Covington
46.5 acres of land located Farm Rd. SW to access road Erika Dr. on East side 1743.
and identified by Book #17-17 @ Pg. # 235/2109-01-007 (book and page of recorded deed
Parcel #
or tax map parcel) and that I agree to allow Marshall Cummings (name of site
operator) to use said land for septage land application for a period of 5 years (length
of time), beginning August 15, 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 Mary Bell Williams
_____ (names of all co-owners, or state none).

Signature of landowner Ronnie Williams Date 7-3-13

Signature of landowner Mary Bell Williams Date 7-3-13

Sworn to and subscribed before me this 3rd day of July, 20 13.

Martha Williams
(Notary Public)

(OFFICIAL SEAL)

My Commission expires: aug. 1, 2014

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

Nutrient Management Plan Guidelines for Septage Application SLAS#-78-18.

July 3, 2013

Applicator: Marshall Cummings Septic Tank Service
Marshall Cummings
1234 W. McDuffie Crossing Road.
St. Pauls, NC 28384
(910)737-6310

Landowner: Mary Bell Williams-Ronnie
1489 New Bethel Church Rd.
St. Pauls, NC 28384

A. GENERAL INFORMATION:

1. Periodic sampling of the septage for waste analysis content will occur at least three times a year. Suggestions on sampling, forms and instructions have been provided to the applicator.
2. Site of disposal is Twelve acres located north off SR 1743, Covington Farm Road, southwest of Highway 20, West of St. Pauls at I-95 Exit 31, in Robeson County. Dirt access road is called Erika Drive. The proposed septage disposal site is part of the large Farm Service Agency (FSA) tract T-7415.
3. The dominant soil series at the site is predominantly (90%) Wakulla sand, marked WkB on the soil survey map. This is an excessively drained upland soil low

in fertility and organic matter content. It can quickly dry out. As a result, a permanent vegetative cover is desired such as the summer "warm season" Bermuda Grass. This can be overseeded with small winter annual grains for winter septage applications. There is a small section of Wagram loamy sand soil that does not alter recommendations. The area has a 0 – 6 slope.

4. Septage will not be applied where the site is untrafficable. Untrafficable is defined as soil that will allow a loaded truck to leave a depression (ruts) in sod greater than three inches deep.

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 treatment plant should be in place. A "Detention Facility Permit" is needed or authorization to discharge septage to a wastewater treatment facility permit.

B. CROPS TO BE GROWN AND PLANTING TIMES:

1. The TWELVE acres septage application field is sprigged hybrid Bermuda Grass (May, 2002).

Winter small annual grains need to be overseeded about one inch deep each fall at 120 pounds of seed per acre, in September or October – following the last harvesting of Bermuda grass. When the Bermuda goes dormant in the fall due to cold weather, it should have a height of 2-4 inches when overseeding with winter small grains. To seed winter small grains, they can be drilled or run a straight disk across the field and broadcast the grain so that it falls in the slits across the field and has contact with the soil germination. Areas that develop with less than 80% groundcover by Bermuda will be reseeded/resprigged with Bermuda at a rate of approximately 40-60 bushels per/acre occurring during the planting season of April 1st – September 5th.

Unlike annual winter small grains, Bermuda grass is a warm season perennial and will not have to be planted every year.

2. Subdivided septage application fields (left side and right side as you drive toward the fields) will be cropped the same.

C. NITROGEN (N) NEEDS FOR CROPS GROWN:

RYE = Realistic Yield Expectations. N application rate based on RYE for soil type. Crops will be cut and harvested for hay.

<u>Crop</u>	<u>RYE</u>	<u>N app.rate</u>	<u>lbs.N/acre</u>
Bermuda grass	5.0 tns/a	50 lbs. N/ton yield	250
Annual winter grain (rye) --- straight 50 lbs. N/acre for the growing season (Oct./Nov. – Mar./Apr.)			

Total possible N application for field: 300 lbs. N/a/year

Which exceeds the amount of N that permitted gallons of septage applied per acre can supply (50,000 gallons septage maximum/acre/year times 2.6 lbs. of N/1,000 gallons "book value" equals 130 lbs. maximum N/a/year supplied by septage – 600,000 gallons maximum septage applied/year to the 12 acres)

D. APPLICATION ROTATION/AMOUNTS FOR CUTTING FORAGE FOR HAY:

To be able to have a section (Left or Right side) of the permitted TWELVE acres available for septage application each month, the permitted area needs to be divided up into two sections, Right Field (6.5 acres)/Left Field (5.5 acres). This is for rotation purposes to allow for the 30 day "no septage application period" before harvesting (grazing or hay).

The rotations is: application, idle 30 days, harvest; application, idle 30 days, harvest --- for each section of the field. This rotation is also a good agronomic practice.

If it was desired to cut and harvest the entire TWELVE acres at one time, the entire TWELVE acres would need to be left idle (no septage application) for 30 days before cutting. Chart showing maximum application rates relative to the month (dependent upon rainfall and soil fertility and crop yields):

Relative application rates for Fields 1 and 2:

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

None = 0 gallons; Low = 5,000 gallons; Medium = 10,000 gallons; High = 15,000 gallons

Notes:

*Cumulative application rate is not to exceed the permitted application rate.

Annual application rate is not to exceed 50,000 gallons per acre.

*50,000 gallons/acre/year maximum (130 lbs. N/a)

600,000 gallons septage applied/year total for the TWELVE acres.

E. APPLICATION METHOD:

Septage will be evenly applied over the entire permitted site during the course of the growing seasons by moving tank/truck splash plate. Use of stakes will mark

4. The septage applied forage will be harvested by contracting a third party to come in, cut and harvest the hay for animal feed, or after purchase of own equipment.

Soil Erosion and Runoff Control Plan

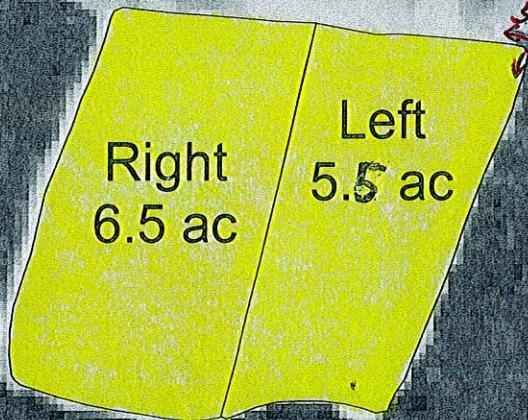
Given that the slopes on this site do not exceed six percent, the natural buffered areas on the down slope side of the fields will suffice to prevent septage for migrating off the fields and/ or into any wetlands areas.

Permanent vegetative cover of bermudagrass also alleviates any anticipated problems. Refer to setback map.

Submitted by: Marshall Cummings Date: July 3, 2012
Site Operator 2013

Plan Prepared by: James Cochran Date: 06-12-08
Address: P.O. Box 2280 REVISION – Lynn Cummings
Lumberton, NC 28359
Phone: (910)671-3276 Resubmitted: 06-12-08

500'



SLAS-78-18

CUMBERLAND COUNTY

HOKE COUNTY

SCOTLAND COUNTY

