

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

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

Vernon M. Daughtry  
Chantilly Septic Service  
36 Pond Road  
Halifax, NC 27839

is hereby issued a permit to operate a Septage Land Application Site with permit # **SLAS-42-03** on NC 903 in Halifax County. 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 effect at the time of review.

Date Issued 4/26/2007

  
\_\_\_\_\_  
Ted Lyon/ Branch Head  
Solid Waste Section

Operator: Vernon M. Daughtry  
SLAS #: 42-03  
County: Halifax

Page 2 of 4

**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 This permit shall become void if the soils fail to adequately assimilate the septage and shall be rescinded unless the site is maintained and operated in a manner which will protect the assigned water quality standards of the surface waters and ground waters.
2. This site shall be operated and maintained in accordance with the nutrient management plan submitted by Vernon M. Daughtry and approved by the Division. The 12-acre site shall be divided into four fields known as Fields 1, 2, 3 and 4. Fields 1, 2 and 3 shall remain established in coastal bermudagrass and shall be overseeded with annual ryegrass (25 to 30 pounds per acre) or annual cover crop rye at a rate of 1.5 to 2 bushels per acre between August 15 and November 1 of each year. Areas where ground coverage by bermudagrass is less than 80% shall be re-sprigged. The bermudagrass shall be cut as hay and baled from Fields 1, 2 and 3 whenever it reaches approximately 12 inches in height, or roughly every four to six weeks beginning in June of each year. The rye or ryegrass shall be harvested from Fields 1, 2 and 3 in March of each year. If ryegrass is used, the producer shall let the stand seed out for approximately 60 days in April and May. Approximately 100 pounds N fertilizer may be applied per acre to Fields 1, 2 and 3. Phosphorus and potassium fertilizer shall be added to Fields 1, 2 and 3 in accordance with soil test results for the crops grown. Field 4 shall be planted to corn at a rate of 10 to 15 pounds per acre between April 15 and June 1 of each year. The corn shall be double cropped to annual ryegrass (25 to 30 pounds per acre) or annual cover crop rye at a rate of 1.5 to 2 bushels per acre within two weeks of harvesting the corn each year. The rye shall not be harvested from Field 4. Additional fertilizer and lime shall be added to Field 4 in accordance with soil test results for the crops grown. 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 four 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 Vernon M. Daughtry. A fescue buffer of at least 25-feet 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 site shall be operated and erosion and runoff control measures maintained in such a manner as to prevent migration of wastes off of the designated waste receiving site. The installation of groundwater monitoring wells may be required.
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 government agencies (local, state and federal) 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 monitoring requirements the Division of Waste Management 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

Operator: Vernon M. Daughtry  
SLAS #: 42-03  
County: Halifax

Page 3 of 4

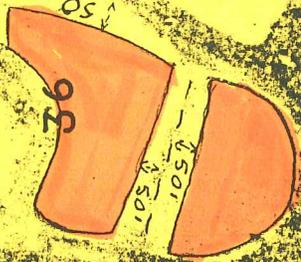
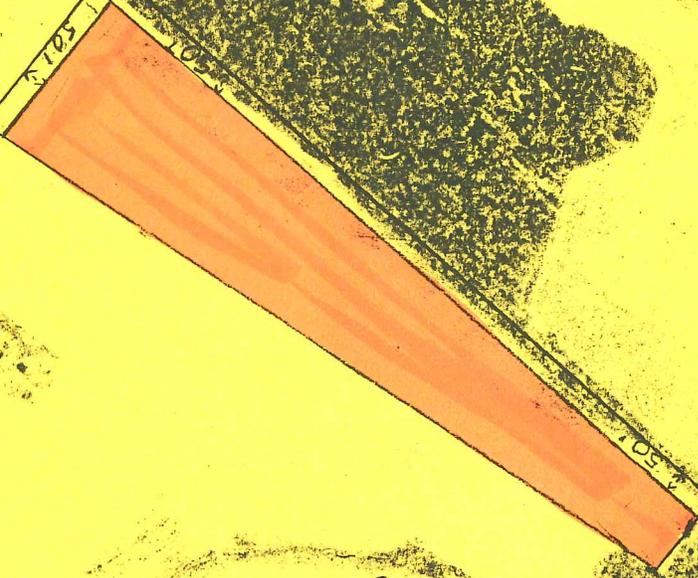
addition and, without the addition of additional alkali, shall remain at 12 or higher for 2 hours prior to land application.

7. **This site contains approximately 12 acres that are available for the land application of septage.** The maximum annual application rate on Fields 1, 2 and 3 shall be 50,000 gallons per acre per year, for a total, maximum annual application of 450,000 gallons. The maximum annual application rate on Field 4 shall be 46,000 gallons per acre per year, for a total, maximum annual application of 184,000 gallons. The total, maximum annual application for the site shall be 634,000 gallons. **In result of field 4 currently being inactive, the maximum application rate for the site is 450,000 gallons based on 9 acres.** These application rates assume equal septage distribution, on an annual basis. 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 10,000 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(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. Septage shall not be applied during periods of high soil moisture.
10. 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 shall discharge septage at this site without prior appropriate notification and written approval of the Division of Waste Management.
11. 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.
12. **This permit shall expire April 26, 2012.** 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 .0822 (e) (1) of the NC Septage Management Rules and 40 CFR Part 503.17(b) of the Federal Register. This permit is non-transferable.
13. Records shall be kept in accordance with 40 CFR 503.17(b). These records shall be made available to a representative of the Division of Waste Management upon request.
14. Any duly authorized officer, employee, or representative of the Division of Waste Management 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.



Operator:  
V. Daughtry  
Landowner:  
Gardner  
SLAS 42-03  
1" = 400'  
F1 = 10 acres  
F2 = 4 acres

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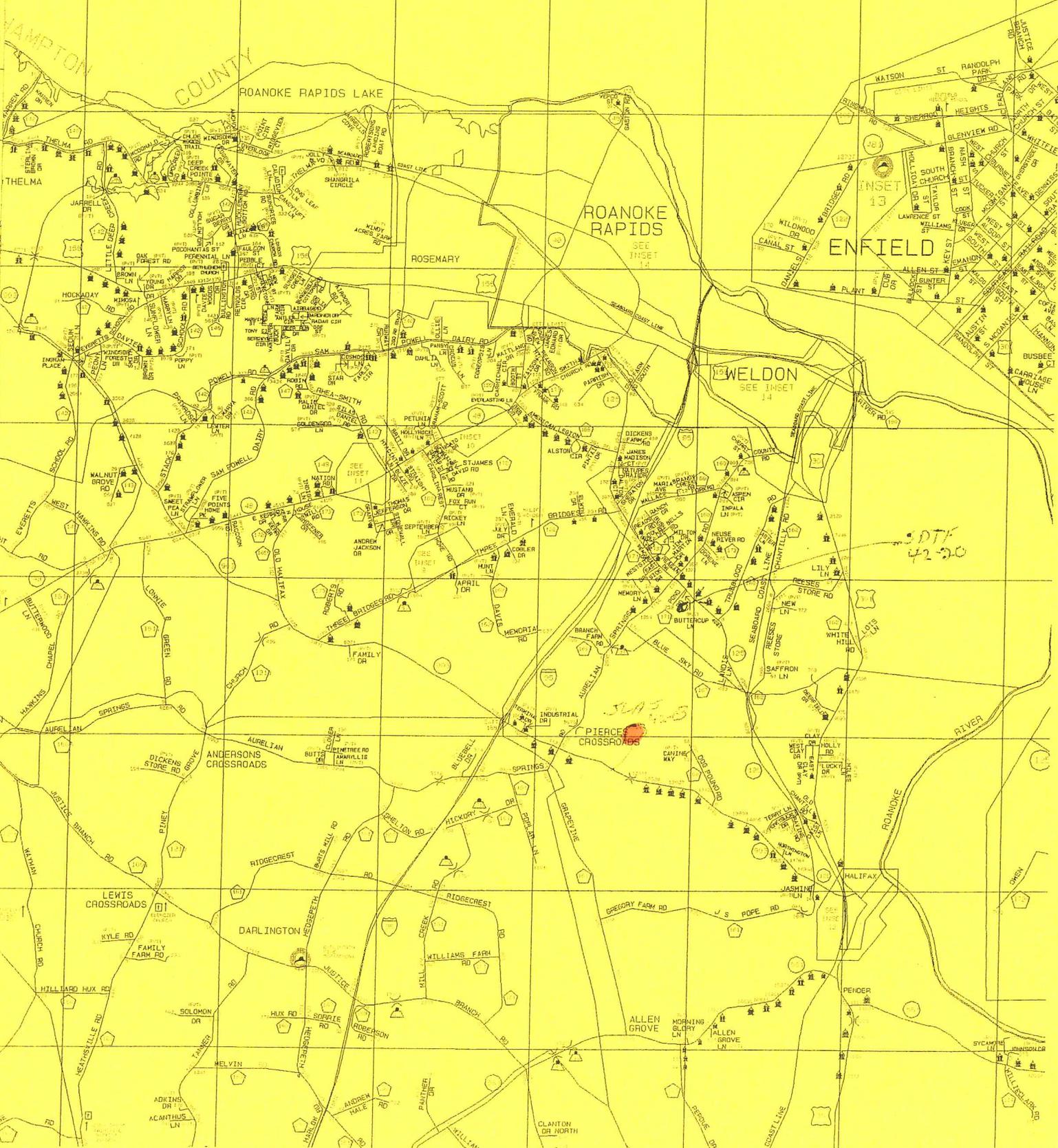
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# APPLICATION FOR A PERMIT TO OPERATE A SEPTAGE LAND APPLICATION SITE

North Carolina Department of Environment and Natural Resources  
Division of Waste Management – Solid Waste Section  
401 Oberlin Rd., Ste. 150, Raleigh, NC 27605

## I. Site and Operator Information

1. Applicant VERNON M. DAUGHTRY  
Address 36 POND ROAD  
HALIFAX, NC 27839  
Phone 252-536-3996  
CELL# 252-308-2571

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

3. Landowner ROBERT PAGE GARDNER  
Address 2234 RIDGECREST RD  
HALIFAX, NC 27839

4. Site Location: County HALIFAX State Road Number HWY 903  
Directions to site: FROM PIERCES X ROADS GO EAST 1 MI  
CROSS CREEK TURN LEFT FOLLOW PATH TO SITE

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

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

Existing site permit number: 42-03 permit expiration date: JUNE 12, 07

6. Number of acres meeting the requirements of the NC Septage Management Rules: 9 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. 42-03

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 **ENCLOSED**
3. Alternative plan for disposal (detention facility permit number or wastewater treatment plant authorization): 42-70 & WELDON WASTE WATER TREATMENT P.
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): APPLY LIME TO SEPTAGE IN TRUCK TILL A PH 12 IS REACHED AND HELD FOR 30 MIN. ON LAND APPLY LIME TO GREASE AND RECH A PH OF 12 AND HOLD IN TRUCK FOR 2 HR. THE GREASE IS DELUTED BY H<sub>2</sub>O 50/50 BEFORE TRUCK
6. Proposed method of applying septage to land, including septage distribution plan if required \* (use additional paper to explain if necessary): PWT A SPREADER SPOON ON BACK OF TRUCK PWT A POSITIVE PRESURE ON SEPTAGE OR GREASE ~~TRUCK~~ WITH TRUCK MOVING OPEN VALVE APPLY EVENLY ON THE FIELD TO REACH A SMOOTH APPLICATION
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):  
THIS IS 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.

Vernon M Daughtry 2/19/2007  
Signature\*\*\* Date  
VERNON M DAUGHTRY 2/19/2007  
Print name Title

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

\* Refer to Section .0821(e) of the NC Septage Management Rules.

\*\* Refer to Section .0821(g) of the NC Septage Management Rules.

\*\*\*Signature of company official required.

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# Nutrient Management Plan for Vernon Daughtry

## A. General Information

1. Two samples per year of the septage will be conducted for waste analysis.
2. Soil samples of fields 1,2,3,and 4 will be done annually from March through June. Fields 1,2,and 3 is of the Marlborough soil series and field 4 is of the Bonneau soil series.
3. Field 1,2,3, contain approx. 4 acres per field. Field 4 contains approx. 4 acres.
4. Septage will not be applied where the site is untrafficable.
5. Septage will be lime stabilized.(For grease traps at least two hours)
6. All nit. recommendations will be 75% of the realistic yield expectation should the forage be only grazed.
7. 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.
8. Resprigging of bermudagrass in field 1-3 will be done if less than 75% of ground is covered by bermudagrass.

## B. Crops

1. Field 1,2,3, are planted in coastal bermuda grass. Field 4 is planted in corn at 10-15 lbs per acre from April 15-June 1. All fields shall be planted with Annual ryegrass,at 25-30 lbs./A or annual cover crop rye,at 1.5-2 bu/A from August 15 to November 1. On field 1-3 Annual ryegrass or cover crop rye should be planted after the first frost to inhibit bermudagrass growth. On field 4 ,cover crop rye or ryegrass should be planted within two weeks of harvesting the corn.

## C. Nitrogen needs for crops grown:

Fields 1,2,and 3

Crop (cut for hay)	RYE.	N.App.Rate	lbs.N/acre
Common Bermuda Grass	4 tons/ac	x 40lbsN/dry ton	= 160 lbs.
<u>Annual Ryegrass</u>	<u>3 tons/ac</u>	<u>x 25lbsN/dry ton</u>	<u>= 75 lbs</u>

235 lbs.N/ac

Field 4	RYE		N App. Rate	Lbs./A
Corn	12 tons/A	x	10 lbs./T	120
Rye	2 tons/A	x	40 lbs./T	80
			Total	200 Lbs./A

D. Relative Application rates for Fields 1-3,,4

Month	Rates	
	Fields 1-3	Field 4
Jan	low	low
Feb	medium	medium
Mar	medium	medium
Apr	High	High
May	High	low
June	High	0
July	High	0
Aug	High	0
Sept	Medium	Medium
Oct	Medium	Medium
Nov	Medium	Medium
Dec	Low	Low

None= 0 gallons,,,,,Low=5000gallons  
Medium= 10000gallons,,,,, High= 15,000gallons

E. Application Method

The preceding information is based on septage being evenly applied over the entire permitted site by trucks with sprayers.

F. Fertility Requirements including Septage and Chemical Fertilizers.  
Fields 1,2,and 3

Additional fertilizer and lime can be added up to the amounts recommended by Soil sample results.

Field 4- Additional fertilizer and lime will be added according to soil sample results.

### 3. Harvesting Considerations

1. The bermudagrass will be cut as hay and baled whenever it reaches approx. 12 inches or roughly every four to six weeks beginning in June. Ryegrass or Rye can start to be harvested in March. If Ryegrass is used,,, producer will let the stand seed out for approximately 60 days in April and May...Then it can be harvested as hay in fields 1-3,,or in field 4 killed off and left on land in no till situations or tilled under for green manure.

2. A 30 day period must be observed between the last application of septage and harvest. Septage will be applied in an six week rotation using field 1,2,3 (two weeks per site). Field 4 will be applied at the right time of year (see part D)

3. Bales of hay will be used by local farmers for livestock feeding purposes.

4. Corn will be harvested from August to October and fed to livestock. Annual Rye will be planted as a cover crop in the fall at two bushels per acre.

### Soil Erosion and Runoff Control Plan

25 foot fescue buffers around the edge of the fields and a distance of 250 ft from the well should suffice to prevent septage from migrating off of the fields.

Submitted by :

Land owner:

Plan prepared by:

Address:

Phone #

Vernon Daustly

Robert P. Aarby

Dan Casper

Box 37, Halifax, NC 27839

252-583-5161

Vernon Daustly

Feb, 18, 2007

Robert P. Aarby

Feb, 18, 2007