NCDENR

North Carolina Department of Environment and Natural Resources

Pat McCrory
Governor

Donald R. van der Vaart
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

Brock's Septic Tank Services, Inc.
Eldridge R. Brock
2899 Summerlins Crossroads Rd.
Mt. Olive, NC 28365

is hereby permitted to operate Septage Land Application Site with permit # **SLAS-31-01** located on SR 1004 in Duplin County at approximate position 35.11765° N latitude and -77.99321° 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 4/16/2015

Martin A. Gallagher, Supervisor
Composting & Land Application Branch,
Solid Waste Section
Division of Waste Management, NCDENR

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 This permit shall become void if the soils fail to adequately assimilate the septage and shall be rescinded unless the site is maintained and operated in a manner which will protect the assigned water quality standards of both surface and ground waters.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 Eldridge R. Brock and approved by the Division of Waste Management. The 9.9-acre site shall be divided into two fields as Field 1 (6.2 acres) and Field 2 (3.7 acres). Both fields shall remain established bermudagrass and shall be overseeded in annual ryegrass in the fall of each year. Areas where the bermudagrass stand drops below 80% in coverage shall be seeded in Cheyenne Bermudagrass. The planting and harvest of the bermudagrass and annual ryegrass shall be followed as outlined in the nutrient management plan. The 30-day waiting period between the last application of septage and the harvest of a crop shall be met by alternating septage applications between fields. All discharges shall occur within the permitted area and shall be 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 Eldridge R. Brock in such a manner as to prevent the migration of wastes off of the designated waste receiving site. A vegetative buffer 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 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.** The pH of domestic septage 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. For grease septage or grease septage mixed with domestic septage, the 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 2 hours prior to land application.

7. **This site contains approximately 9.9 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 495,000 gallons may be applied to this site. Application amounts to the two fields shall not exceed the maximum annual application rate or the monthly application rates listed in the approved nutrient management plan. The maximum annual application rate assumes equal septage distribution, on an annual basis, over the entire permitted area.

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 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 March 22, 2016.** 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).

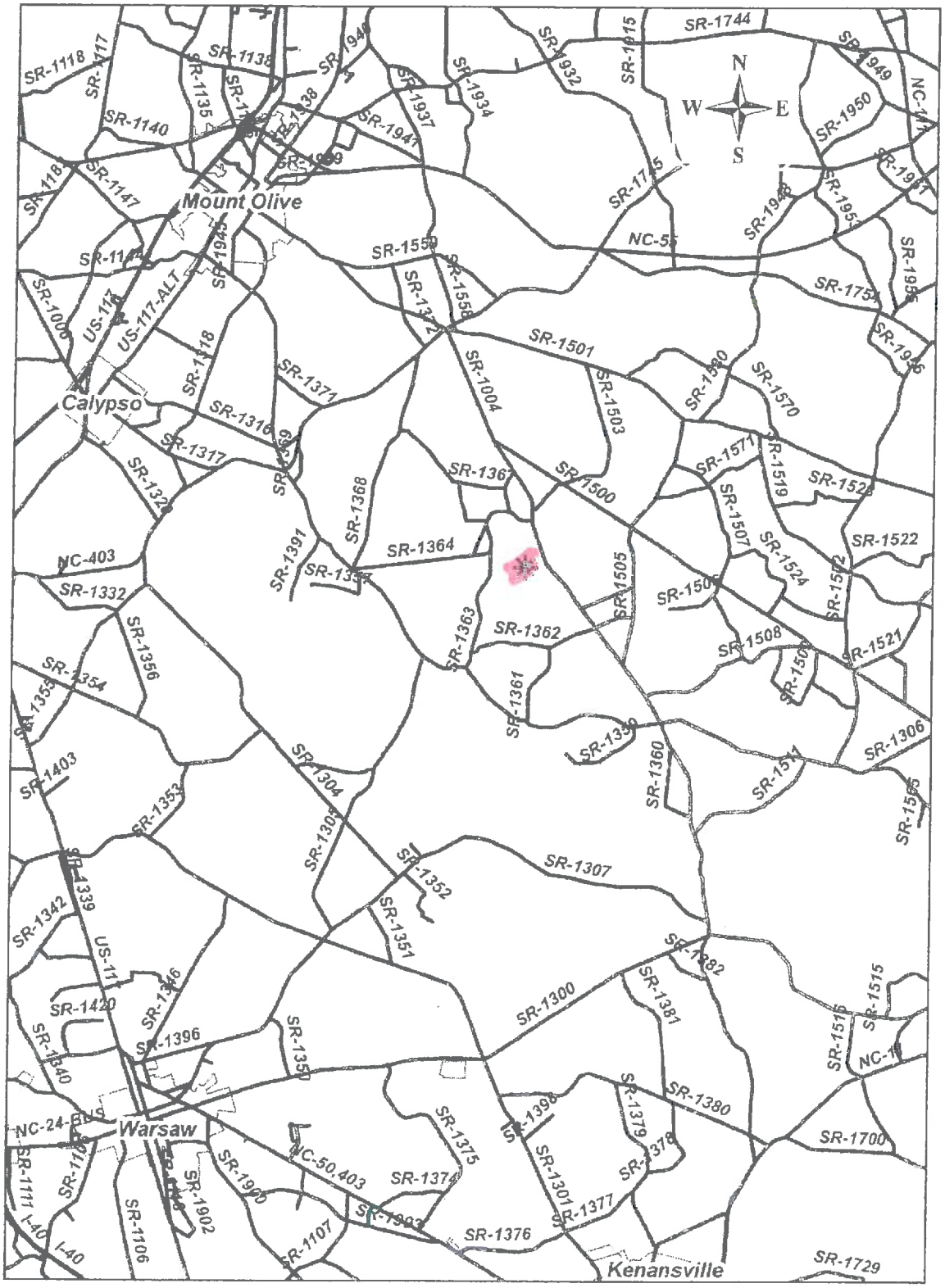
16. Records shall be kept in accordance with 40 CFR 503.17(b). These records shall be made available to a representative of the Division upon request.

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 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 or within 100 feet of any ditch.

SLAS-31-01



SLAS-31-01 is located off of SR 1004 in DuplinCounty.

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

crc, Jan 2011

SLAS-31-01

Aerial Source: 2010 NAIP Color Imagery, NCDA; site boundary, NC DENR Division of Waste Management.
Map created by NCDENR Division of Waste Management, Compost and Land Application Branch for permitting purposes only.

crc, March 2013

NCDENR
North Carolina Department of Environment and Natural Resources

Pat McCrory
Governor

Donald R. van der Vaart
Secretary

May 8, 2015

Mr. Eldridge Ray Brock
Brock's Septic Tank Services, Inc.
2899 Summerlins Crossroads Rd.
Mt. Olive, NC 28365

RE: SLAS-31-01 Permit Renewal
Brock's Septic Tank Services, Inc.
SR 1004 in Duplin County

Dear Mr. Brock:

The NC Division of Waste Management has reviewed your application for permit renewal of Septage Land Application Site, **Permit # SLAS-31-01**, in Duplin County. Your application has been approved in accordance with NC Septage Management Rules and your permit, **SLAS-31-01**, is enclosed.

Please read all permit conditions carefully. Your nutrient management and soil erosion and runoff control plans have been included in your permit. The permitted maximum annual application rate for this site is stated within Permit Condition 7. Also, an application for permit renewal must be submitted at least ninety (90) days prior to the permit expiring as stated within Permit Condition 15. **The enclosed permit shall expire on March 22, 2016.**

Violations to the NC Septage Management Rules or this permit could subject you to administrative penalties of up to $15,000 per violation per day. If you have any questions concerning your permit or septage in general, please contact me at (919) 707-8283. When communicating to the Division about this permit, please refer to it as **"SLAS-31-01."**

Sincerely,

Chester R. Cobb

Chester R. Cobb, Soil Scientist
Division of Waste Management, NCDENR

Enclosures
cc: Central File
John College, Environmental Senior Specialist
Cecil, Tom, Paul, and Sonya Rose, Landowners
Duplin County Health Department

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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
1646 Mail Service Center, Raleigh, NC 27699-1646

RECEIVED
JAN 20 2015
SOLID WASTE SECTION

I. Site and Operator Information

1. Applicant Brock's Septic Tank Service Inc.
   Address 2899 Summerlins Crossroads Rd.
   Mt. Olive, N.C. 28365
   Phone 919-658-2832
   (Eldridge Brock)

2. Contact person for site operation (if different from applicant): Buddy Brock
   Title or position Owner Phone 919-658-2832
   Address 2899 Summerlins Crossroads Rd.
   Mt. Olive, N.C. 28365

3. Landowner Tom Rose - 877 Garner Chapel Rd. Mt. Olive, N.C. 28365
   Address Cecil Rose - 873 Garner Chapel Rd. Mt. Olive, N.C. 28365
   Paul Rose - 459 Norwood Ezzell Rd. Mt. Olive, N.C. 28365
   John Rose - 183 John Rose Lane Mt. Olive, N.C. 28365

4. Site Location: County Duplin State Road Number SR 1004
   Directions to site: Hwy SR 1004 - Past Brocks Chapel Church
   site path on right.

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

   For a permit renewal or modification, provide the following information:
   Existing site permit number: S1as 31-01 permit expiration date: 3-22-2015

6. Number of acres meeting the requirements of the N.C. Septage Management Rules: 10 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. A Copy already on file

10. Attach a vicinity map (county road map showing site location). A copy already on file

(over)

II. Site Management Information:

The following information shall be included with the application form:

1. Nutrient Management Plan Included
2. Soil Erosion and Runoff Control Plan swell around facility to contain any leaks or spills
3. Alternative plan for disposal (detention facility permit number or wastewater treatment plant authorization): #31-12
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 treated with lime and brought up to a Ph of 12 and held at 12 for 30 mins before application - Grease will be mixed with septage at a rate of at least 1-1 and treated the same as septage but held at Ph of 12 for 2hrs. before application.
6. Proposed method of applying septage to land, including septage distribution plan if required * (use additional paper to explain if necessary): Spread evenly across the field using a moving vehicle to allow for even distribution on the field
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): The site is agricutural 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.

Eldridge Ray Brock — Signature***

1-15-15 — Date

Eldridge Ray Brock — Print name

1-15-15 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.**

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, Tom Rose Cecil Rose Sonya Rose Paul Rose (name of site owner) hereby certify that I am the owner of 139 acres of land located in Duplin County (Summerlins Cross Rd.) Mt Olive, N.C. 28365 and identified by Book 1394 page 68 (book and page of recorded deed or tax map parcel) and that I agree to allow Elridge Brock (operator name) to use said land for septage land application for a period of 1 year (length of time), beginning 3-22-2015 (give date) 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 Tom Rose Cecil Rose Sonya Rose Paul Rose (names of all co-owners, or state none).

Signature of landowner Tom Rose Date 12-2-2014

Signature of landowner Cecil Rose Date 12-2-2014

Signature of landowner Sonya J. Rose Paul Rose Date 12-2-2014

Sworn to and subscribed before me this 2nd day of December, 2014.

W. Dwayne Summerlin
(Notary Public)

My Commission expires: June 11, 2017

(OFFICIAL SEAL)

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

** As required by Rule .0843

W. DWAYNE SUMMERLIN
Notary Public
Duplin County, North Carolina

SEPTAGE LAND APPLICATION LOG

COVER SHEET

(Eldridge Brock)

Site Operator: Brocks Septic Tank Service, Inc.

SLAS Permit #: 31-01

Site Location: Latitude 35-07-00 Longitude 77-59-36
(street address for the site **or** latitude and longitude)

Number of acres permitted: 10 acres

Permitted application rate: 50,000 per acre per year
(gallons septage per acre per year)

Crop(s): Bermuda grass + Rye grass

Crop nitrogen requirement(s): Rye
(pounds nitrogen per acre)

CERTIFICATION:

"I certify, under penalty of law, that the pathogen requirements in (insert either 503.32 (c)(1) or 503.32 (c)(2)) and the vector attraction reduction requirements in (insert 503.33 (b)(9), 503.33 (b)(10) or 503.33 (b)(12)) have been met. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the pathogen requirements and vector attraction reduction requirements have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment."

Eldridge Ray Brock
(signature)

1-15-15
(date)

SEPTAGE NUTRIENT MANAGEMENT PLAN
FOR APPLICATION
TO BERMUDA AND RYEGRASS
Brock's Septic Tank Service

A. General Information:

1. Waste analysis is suggested on a biannual basis.

2. This nutrient management plan is for FSA Tract #: T-2397. This tract contains two fields, Field 1 has 6.5 total acres, which will be split into an A section and a B section. Field 2 has 3.7 acres. See attached map for the layout of the fields to receive septage.

3. The dominant soil type is a sandy-loam (0-2% slope).

4. Septage will not be applied where the site is untrafficable. (Untrafficable is defined as soil that will not allow a loaded truck to leave a depression in sod greater than 3 inches in depth).

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.

B. Crops to be grown and approximate planting times:

The present stand of ryegrass will be maintained. If areas develop where the stand is inadequate, these areas should be renovated. Renovation can be made by sowing Cheyenne II Bermudagrass at a rate of 15 pounds per acre in April to establish an acceptable stand. Each year the field will be overseeded with annual ryegrass at a rate of approximately 30 pounds per acre in September.

C. Nitrogen needs for crop grown:

R. Y. E. = Realistic Yield Expectation
Nitrogen Application Rate = Suggested Nitrogen rate based on R. Y. E. for the soil type.

Crop (cut for hay)	R. Y. E.	N Application Rate	Lbs of N/Acre
Cheyenne II Bermudagrass	5.0 tons/Acre	40 lbs/Dry Ton	200
Annual Ryegrass	3.0 tons/Acre	25 lbs/Dry Ton	75
		TOTAL	275

D. Relative Application Rates

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.

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

1. Phosphorous and potassium must be added in accordance with the soil test recommendations for the crop grown. This will require the addition of commercial fertilizers containing those nutrients.

2. Additional nitrogen should be applied from commercial fertilizers so that the total nitrogen rates meet the R. Y. E. rates previously listed in the table in Section C above.

3. Nitrogen, phosphorous, and potassium applied in the septage should be subtracted from the total nutrient needs to determine the proper commercial fertilizer rates.

4. The buffer areas should be fertilized with commercial fertilizers based on soil test results and in accordance with the R. Y. E. of each hay crop grown as documented in Section C above.

G. Harvest of the crops and their use:

1. The Cheyenne II Bermudagrass will be cut as hay and baled at the time it reaches approximately 12 inches in height, or roughly every 4 to 6 weeks beginning in June. Approximately three or four harvests can be expected.

2. The ryegrass will be cut for hay and baled in April.

3. A 30 day waiting period must be observed between the last application of septage and harvest. During this 30 day waiting period, septage will be applied on the alternate fields. If necessary, Fields 1 and 2 may be divided and managed as separate fields to facilitate the 30 day waiting period.

4. The bales will be sold to a local farmer to feed beef cattle and/or horses.

SOIL EROSION AND RUNOFF CONTROL PLAN

Given that the slopes on this site do not exceed five percent, a 50 foot buffer, planted in Cheyenne II Bermudagrass and ryegrass, 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: Eldridge Ray Brock Date 1-15-15

Submitted By: Eldridge Ray Brock Date: 12-7-10
Site Operator

Prepared By: Star Jackson Date: 12/10/09

Star Waters Jackson
605 Sheep Pasture Road
Albertson, NC 28508
252.568.3610 (home)
252.361.8658 (cell)