



North Carolina Department of Environment and Natural Resources

Division of Waste Management

Pat McCrory
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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**

Cooper Septic Tank Service
Woodrow & Emily Cooper
P.O. Box 645
Wagram, NC 28396

is hereby permitted to operate Septage Land and Application Site with permit # **SLAS-78-13** located on SR#1308 in Robeson County in approximate position 34.83136° N latitude and -79.34572° 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

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 This permit shall become void if the soils fail to adequately assimilate the septage and shall be rescinded unless the site is maintained and operated in a manner which will protect the assigned water quality standards both surface and ground waters.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 Woodrow & Emily Cooper and approved by the Division of Waste Management. **The 74.9-acre site shall be divided into three fields known as Field 1 (18.1 acres), Field 2 (17.8 acres) and Field 3 (39.0 acres).** The site shall remain established in coastal bermudagrass and shall be overseeded with rye between October and November of each year. **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 three permitted 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 Woodrow & Emily Cooper 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 74.9 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 3,745,000 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 72,019 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 June 18, 2017.** 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.

February 27, 2014

Woodrow & Emily Cooper
Cooper Septic Tank Service
P.O. Box 645
Wagram, NC 28396

**RE: SLAS permit renewal
Cooper Septic Tank Service
SLAS-78-13
SR#1308 in Robeson County**

Dear Woodrow & Emily Cooper:

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-78-13**, 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 **June 18, 2017**. 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 Owner Septic Tank Service
Address 387 S. Hilltop Rd Red Springs NC 28377
Phone 910 369-2713

2. Contact person for site operation (if different from applicant): Woodrow Cooper
Title or position Owner Phone 910 369-2713
Address P.O. Box 445 Wagram NC 28396

3. Landowner Carlton Locklear
Address 4445 McGirt Rd Maxton, NC 28364

4. Site Location: County Robeson State Road Number 4445 SR 1308 W.C.
Directions to site: West of SR 1308 just north of SR 1310 in western Robeson Co

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

For a permit renewal or modification, provide the following information:
Existing site permit number: 78-13 permit expiration date: 6/18 2012
1308

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)

RECEIVED

MAR 26 2012

DENR-FAYETTEVILLE REGIONAL OFFICE

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 78-13 Moore Co WWTPL W.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): Burning P.H. to 12 Add enough hydrated lime to raise the ph to 12 & hold at 12 for 1/2 hour for domestic (or for 2 hours for grease) prior to land application. All septage shall be at ph 12 for land application to occur
6. Proposed method of applying septage to land, including septage distribution plan if required * (use additional paper to explain if necessary): W.C. From a mowing truck with a spreading device at least 12' to 15'
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): Agriculture W.C.

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.

Woodrow Cooper 3-17-2012
 Signature*** Date
Woodrow Cooper 17-4-2012
 Print name 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.

Emilee M. ... 10/18/13

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, Carlton Locklear (name of site owner) hereby certify that I am the owner of
82 acres of land located 4445 McGirt Rd, Maxton, NC 28364
and identified by SR 1308 (book and page of recorded deed
or tax map parcel) and that I agree to allow Woodrow Cooper (name of site
operator) to use said land for septage land application for a period of 5 years (length
of time), beginning June 18, 2012 (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 _____

_____ (names of all co-owners, or state none).

X Signature of landowner Carlton Locklear Date 17th Mar. 2012

Signature of landowner Archie Locklear Date 17th Mar. 2012

Sworn to and subscribed before me this 17th day of March, 20 12.

Angela L. Jacobs
(Notary Public)

(OFFICIAL SEAL)

My Commission expires: 11/23/2013

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

** As required by Rule .0843

NUTRIENT MANAGEMENT PLAN

Applicator:

RECEIVED
JUN 13 2012

DIVISION OF WASTE MANAGEMENT
FAYETTEVILLE REGIONAL OFFICE

Septage Disposal Site #78-13

Woodrow Cooper
Cooper Septic Tank Service
P.O. Box 645
Wagram, NC 28396
(910) 369-2713

Site Location: This site is located on the west side of SR. 1308 just north of SR. 1310 in western Robeson County about 0.5 mile south of the Hoke County line.

Crops: At present this site has an established bermudagrass crop and rye as a winter crop.

Soil Types: Soil types at this site include Johns Sandy Loam; Pacalla Loamy Sand; Norfolk Loamy Sand; Lakeland Sand; Lumbree Sandy Loam; and Kalmia Loamy Sand. All are listed as 0 to 6 percent slope and should present no problem for an **Erosion Control Plan.**

Samples: Soil samples will be taken annually to monitor soil nutrients and heavy metal levels. Also a lime stabilized septage sample will be taken annually. Copies of these reports will be forwarded to the **Composting and Land Application Branch.**

Septage Distribution: To enhance septage distribution and prevent run off from designated areas, a spreader will be attached to the vacuum truck during application.

Realistic Yields: An average of 4.5 ton of forage per acre will be used. (Taken from soil types). Also 2.5 ton per acre yield of rye overseeded in bermudagrass is used.

4.5 tons/acre x 40 lbs. N/ton = 180 lbs. N/acre (bermudagrass)

2.5 tons/acre x 25 lbs. N/ton = 62.5 lbs. N/acre (rye)

TOTAL = 242.5 lbs. N/acre

This site contains 75 acres permitted with an established bermudagrass crop and rye as a winter crop. Assuming nitrogen as the priority nutrient and septage containing 2.6 lbs. of nitrogen per 1000 gallons this would require 93,269 gallons of septage per acre per year. Therefore the application of 50,000 gallons per acre per year of septage with addition of commercial fertilizer will be necessary to meet total crop needs.

Relative application rates for Fields:

| Month | Field |
|-----------|--------|
| 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.
 Annual application rate is not to exceed 50,000 gallons per acre.

Application Method

The preceding information is based on septage being evenly applied over the entire permitted site by pump truck (method, equipment, special application patterns).

Re-sprigging: Re-sprigging of coastal bermudagrass will be done if less than 75% of the ground is covered by coastal bermudagrass. This will be done sometime between February and May at the rate of 60 bushels per acre. Method used will be a sprigging machine.

Additional Fertility Requirements: Phosphorus and potassium will be added to the fields and buffer areas in accordance with the soil test requirements to maintain fertility. Nitrogen will be added to the buffer areas as necessary to maintain a healthy crop.

Planting Guide: Rye will be planted in the entire site in October- November of each year to receive optimum growth. It will be drilled in at a rate of 120 lb. per acre.

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 in sod greater than 3 inches in depth).

Harvest of the crops and their use:

The bermuda grass will be cut as hay and baled whenever it reaches approximately 12 inches in height, or roughly every 4 to 6 weeks beginning in June. At least three harvests will be made

Harvest height for rye will be 12-15 inches thru the winter and also

The rye grass will be cut as hay and baled in March and April of each year

→ To allow the bermuda to grow

A 30-day waiting period must be observed between the last application of septage and harvest. Beginning about the first of March each year, septage will be applied to the other fields while the rye on Field 1 is undisturbed for 30 days. After 30 days the rye in Field 1 will be harvested and septage application switched to Field 1 and the other fields while Field 2 is undisturbed for the next 30 days. By early May, a rotation will be established which can cycle every 30 to 45 days between bermuda grass harvests. By the end of October, rye will have been planted and the entire site will be available for septage application until the end of February the following year.

The hay will be sold to a local farmer to feed his beef cows and horses.

The fields could be grazed if a three-field rotation is established. The rotation is such that Field 1 is grazed while Field 2 is undisturbed and Field 3 receives septage. After 30 days, Field 2 will be grazed while Field 3 left undisturbed and Field 1 receives septage. For the third phase of the rotation, Field 3 is grazed while Field 1 is undisturbed and Field 2 receives septage. The following table shows the rotation pattern:

30 day waiting period must be observed between the last application of septage & grazing

| Month | Field 1 | Field 2 | Field 3 |
|-----------|---------|---------|---------|
| January | Graze | Wait | Apply |
| February | Apply | Graze | Wait |
| March | Wait | Apply | Graze |
| April | Graze | Wait | Apply |
| May | Apply | Graze | Wait |
| June | Wait | Apply | Graze |
| July | Graze | Wait | Apply |
| August | Apply | Graze | Wait |
| September | Wait | Apply | Graze |
| October | Graze | Wait | Apply |
| November | Apply | Graze | Wait |
| December | Wait | Apply | Graze |

Erosion and Runoff Control: Slopes are less than 5% infiltration rate .3 high, and all required buffers are wooded or in bermudagrass. Erosion and runoff should not be a problem given these conditions.

Woodrow Cooper
Signature

Submitted by: *Woodrow Cooper*
Woodrow Cooper

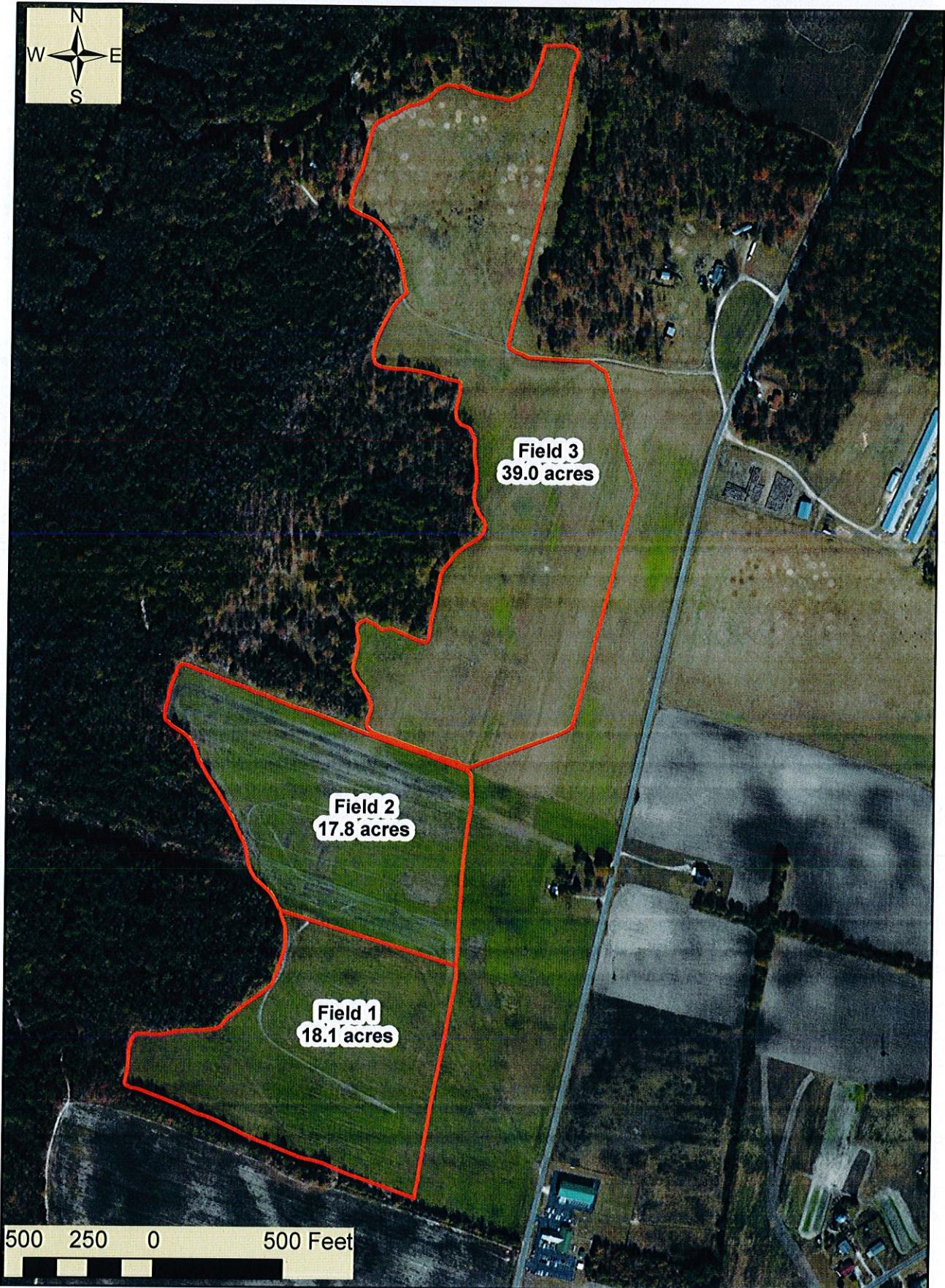
6-7-2012
Date

Date: *6-5-12*

Emily M Cooper 10/18/13

SLAS-78-13

34.83136° N latitude
-79.34572° E longitude



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

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

cr, Feb. 2014