

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

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

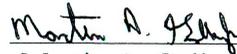
Lentz Septic Tank Service, Inc.
Keith Lentz
418 Lentz Road
Statesville, NC 28625

is hereby issued a permit to operate Septage Land Application Site with permit #**SLAS-49-01** located on SR#1845 in Iredell County in approximate position 35.96535° N latitude and -80.81462° 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

9/29/2012



Martin A. Gallagher, Branch Head
Solid Waste Section

Operator: Keith Lentz
SLAS# 49-01
County: Iredell

Page 2 of 3

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 This permit shall become void if the soils fail to adequately assimilate the septage and shall be rescinded unless the site is maintained and operated in a manner which will protect the assigned water quality standards of both surface and ground waters.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 Keith Lentz and approved by the Division of Waste Management. **The 20.1 acre site shall be divided into two fields know as Field 1 (13.6 acres) and Field 2 (6.5 acres).** The 30 day waiting period between the last application of septage and the harvest of the crop shall be met by alternating septage applications, the waiting period and 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 Keith Lentz 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 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 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 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 20.1 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 1,005,000 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 19,326 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: Keith Lentz
SLAS #: 49-01
County: Iredell

Page 3 of 3

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 April 22, 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 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

Mr. Keith Lentz
Lentz Septic Tank Service, Inc.
418 Lentz Road
Statesville, NC 28625

**RE: SLAS permit renewal
Lentz Septic Tank Service, Inc.
SLAS-49-01
SR#1845 in Iredell County**

Dear Mr. Lentz:

The NC Division of Waste Management has reviewed your application to renew a Septage Land Application Site permit in Iredell County. Your application has been approved and your permit, # SLAS-49-01, 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 April 22, 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 Keith V. Lentz
Address 403 Lentz Rd.
Statesville, N.C. 28625
Phone 704-876-1834

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

3. Landowner McKinley VAN Jurney Sr.
Address 148 West Tattersall
Troutman, N.C.

4. Site Location: County Iredell State Road Number 1845
Directions to site: I-77 North to Exit 59, right onto Tomlin Mill Rd to end, turn left
onto Tabor Rd, proceed 2 miles to Olin Village - site behind Olin Village

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

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

Existing site permit number: 49-01 permit expiration date: 4-22-2012

6. Number of acres meeting the requirements of the N.C. Septage Management Rules: 21.2 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. You already have,

10. Attach a vicinity map (county road map showing site location). You have.

(over)

RECEIVED

FEB 27 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-49-02
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): Hydrated lime will be added to septage to bring it up to a ph of 12 and held there for at least 30 minutes or for 2 hours if there is grease trap waste mixed with septage
6. Proposed method of applying septage to land, including septage distribution plan if required * (use additional paper to explain if necessary): Septage will be applied from the rear of a moving truck using a deflector plate to evenly spread the septage at a safe rate to not overload the soil with nutrients and not to cause pooling or runoff.
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): NA K.V.L.
site is agriculture.

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.

Keith V. Lentz
Signature***

2-23-2012
Date

Keith V. Lentz
Print name

Vice President
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, McKinley Van Jurssey Sr. (name of site owner) hereby certify that I am the owner of
63.44 acres of land located Tabac Rd (SR 1845)
and identified by Book 2149, pages 1408-1413 (book and page of recorded deed
or tax map parcel) and that I agree to allow Keith Lentz (name of site
operator) to use said land for septage land application for a period of 5 years (length
of time), beginning April 22, 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 None
_____ (names of all co-owners, or state none).

Signature of landowner McKinley Van Jurssey Date 12-21-2011

Signature of landowner _____ Date _____

Sworn to and subscribed before me this 21st day of December, 2011.

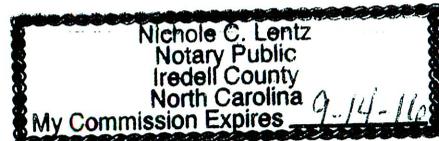
Nichole C. Lentz
(Notary Public)

(OFFICIAL SEAL)

My Commission expires: Sept. 14, 2016

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

** As required by Rule .0843



SEPTAGE DISPOSAL SITE #49-01
 Tabor Church Road, Iredell County
 February 18, 2012

**NUTRIENT MANAGEMENT PLAN FOR
 SEPTAGE APPLICATIONS TO TALL FESCUE**

A. General Information

1. Periodic sampling (at least 2 samples/year) of the septage will be conducted for waste analysis. Annual soil test of each field will be conducted and used in determination of application rates.
2. Field #1 contains approximately ~~13.9~~^{13.6} acres, Field #2 contains approximately ~~7.3~~^{6.5} acres and Field #3 contains approximately 16 acres. Field #3 not permitted for septage application but will be used as part of hay harvesting scheme.
3. The dominant soil at this site is Loyd Cecil.
4. 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 3 inches in depth).
5. Septage storage shall be provided to account for the average volume of septage pumped per week.

There is 110,000 gallons of above ground storage in place at site #49-02 which will be used for storage at all sites.

B. Crops to be grown:

All fields and buffers have well established and adequate stand of tall fescue to receive and utilize recommended rates of septage or commercial fertilizer. Any repairs that need to be made on fescue stands will be made in either October or March and over seeded with 50 pounds of fescue per acre.

*80% groundcover of fescue will be maintained.
K.V.L.*

C. Nitrogen needs for crops grown:

R.Y.E. = Realistic Yield Expectations

N. Application Rate = Suggested N application rate based on R.Y.E. for soil type.

Crop (cut for hay)	R.Y.E.		N.App.RateFactor		lbs N/acre
Tall Fescue	4.0 tons/acre	x	45 lbs N/Dry ton	=	180

D. Relative application rate per acre for all fields.

<u>MONTH</u>	<u>RATE</u>
January	Low
February	Medium
March	High
April	High
May	Medium
June	Low
July	Low
August	Medium
September	Medium
October	Medium
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 by septic pumper truck with spreader attachment and will be applied following contour of fields when spreading.

F. Additional Fertility Requirements:

Additional N-P-K fertilizer and lime will be applied to all fields and buffer areas when needed based on soil test results and crop needs.

G. Harvest of the crops and their use:

1. The fescue will be cut as hay and baled whenever it reaches approximately ~~20 inches~~ ^{K.V.L.} 12 to 14 inches in height, or roughly every 6 to 8 weeks beginning in May. Approximately two to three harvests can be expected.
2. A 30 day waiting period must be observed between the last application of septage and harvest.
3. The fields will be harvested in a three-field rotation as follows: Field #1 receives septage while Field #2 and Field #3 are harvested for hay. Septage can be applied to Field #2 after hay is harvested. Field #1 can be harvested for hay 30 days after the last application of septage. Field #2 can be harvested 30 days after last application of septage. Repeat rotation above for harvest and application.
4. When septage cannot be applied on site #49-01 it will be applied or stored at site #49-02.

SOIL EROSION AND RUNOFF CONTROL PLAN

50-KVL

Given that slopes on this site do not exceed five percent, the required buffers of tall fescue for property lines, streams, and residences should suffice to prevent septage waste from migrating off the fields.

Submitted by: Keith V. Lentz Date: 2-18-2012
Site Operator

Preparation Assistance by: Nancy W. Keith Date: 2-18-2012
Nancy W. Keith

Address: N C Cooperative Extension Service
PO Box 97
Yadkinville, NC 27055

Telephone: 336.679.2061
Fax: 336.679.3088

Houstonville

Williamsburg
site 49-01

8

9

HARMONY

behind
Olin Loop

Olin Loop

Turnersburg

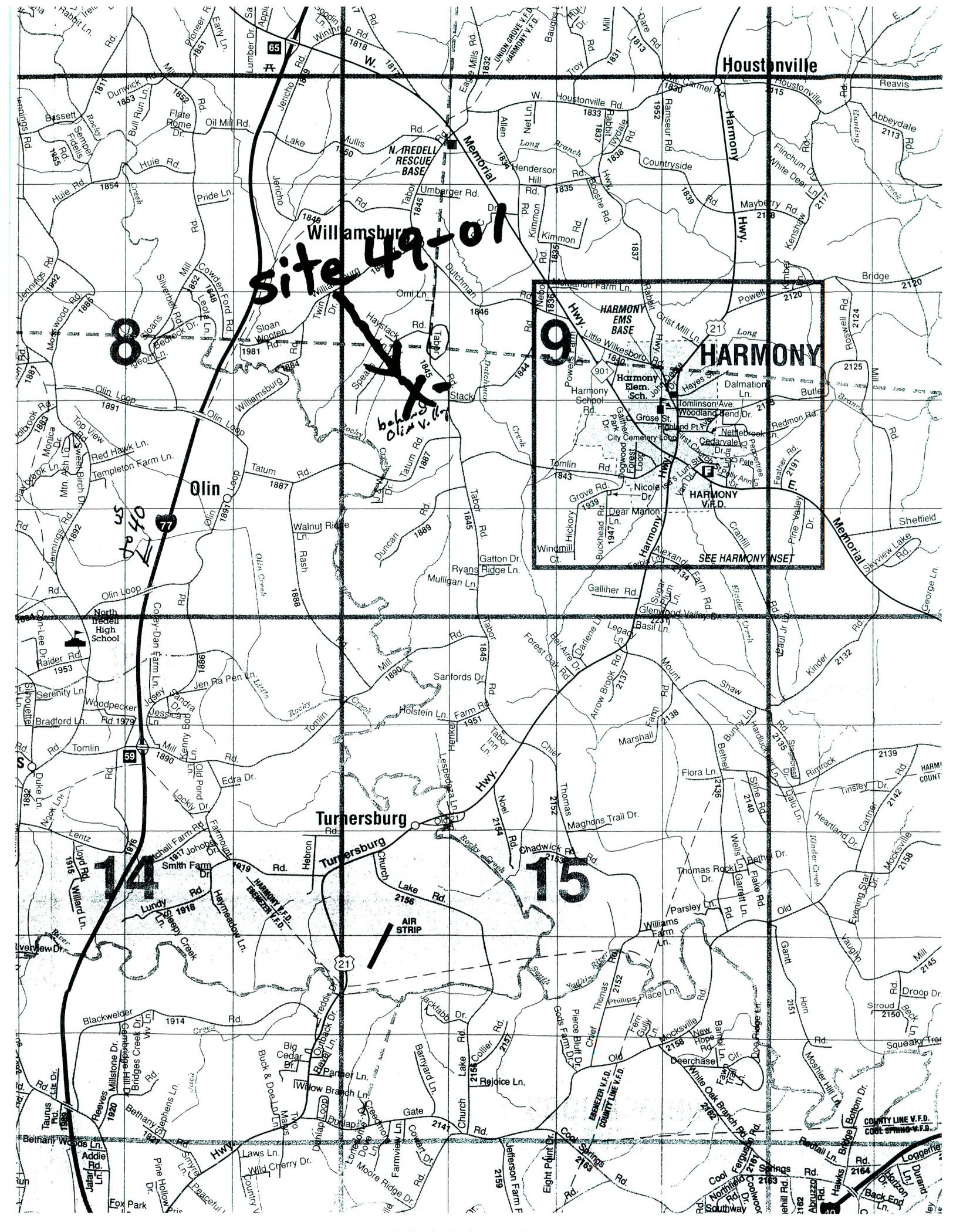
14

15

AIR STRIP

BENEFER V.F.D.
COUNTY LINE V.F.D.

COUNTY LINE V.F.D.
COOL SPRINGS V.F.D.



SLAS-49-01

35.96535° N latitude
-80.81462° W 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.
crc, July 2012