

HARNETT COUNTY HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH SECTION
307 W. CORNELIUS HARNETT BLVD.
LILLINGTON, NC 27546
910-893-7547 PHONE
910-893-9371 FAX

Application for Repair

EMAIL ADDRESS: shortlawncare@gmail.com

NAME Jeff Short PHONE NUMBER 919-271-3115

PHYSICAL ADDRESS 184 Deer Run Ct. Angier NC 27501

MAILING ADDRESS (IF DIFFERENT THAN PHYSICAL) _____

IF RENTING, LEASING, ETC., LIST PROPERTY OWNER NAME _____

Deer Run Lot # 14 18 Acres
SUBDIVISION NAME LOT #/TRACT # STATE RD/HWY SIZE OF LOT/TRACT

Type of Dwelling: Modular Mobile Home Stick built Other _____

Number of bedrooms 3 Basement

Garage: Yes No Dishwasher: Yes No Garbage Disposal: Yes No

Water Supply: Private Well Community System County

Directions from Lillington to your site: 210 Toward Angier 5 miles Left onto

Deer Run Ct.

In order for Environmental Health to help you with your repair, you will need to comply by completing the following:

1. A "surveyed and recorded map" and "deed to your property" must be attached to this application. Please inform us of any wells on the property by showing on your survey map.
2. The outlet end of the tank and the distribution box will need to be uncovered and property lines flagged. After the tank is uncovered, property lines flagged, underground utilities marked, and the orange sign has been placed, you will need to call us at 910-893-7547 to confirm that your site is ready for evaluation.

Your system must be repaired within 30 days of issuance of the Improvement Permit or the time set within receipt of a violation letter. (Whichever is applicable.)

By signing below, I certify that all of the above information is correct to the best of my knowledge. False information will result in the denial of the permit. The permit is subject to revocation if the site plan, intended use, or ownership changes.

Jeff Short
Signature

2/1/22
Date

HOMEOWNER INTERVIEW FORM

It is important that you answer the following questions for our inspectors. Please do not leave any blanks if possible, and answer all questions to the best of your ability. Thank You.

Have you received a violation letter for a failing system from our office? YES NO
Also, within the last 5 years have you completed an application for repair for this site? YES NO

Year home was built (or year of septic tank installation) 1996
Installer of system OTTIS Strickland
Septic Tank Pumper Forever Clean
Designer of System _____

1. Number of people who live in house? 2 # adults 2 # children 4 # total
2. What is your average estimated daily water usage? _____ gallons/month or day _____ county water. If HCPU please give the name the bill is listed in Jeff Short
3. If you have a garbage disposal, how often is it used? daily weekly monthly
4. When was the septic tank last pumped? 1/8/22 How often do you have it pumped? 3 years
5. If you have a dishwasher, how often do you use it? daily every other day weekly
6. If you have a washing machine, how often do you use it? daily every other day weekly monthly
7. Do you have a water softener or treatment system? YES NO Where does it drain?

8. Do you use an "in tank" toilet bowl sanitizer? YES NO
9. Are you or any member in your household using long term prescription drugs, antibiotics or chemotherapy? YES NO If yes please list _____
10. Do you put household cleaning chemicals down the drain? YES NO If so, what kind?

11. Have you put any chemicals (paints, thinners, etc.) down the drain? YES NO
12. Have you installed any water fixtures since your system has been installed? YES NO If yes, please list any additions including any spas, whirlpool, sinks, lavatories, bath/showers, toilets Hot Tub 3 years ago
13. Do you have an underground lawn watering system? YES NO
14. Has any work been done to your structure since the initial move into your home such as, a roof, gutter drains, basement foundation drains, landscaping, etc? If yes, please list Roof & Gutters
15. Are there any underground utilities on your lot? Please check all that apply:
 Power Phone Cable Gas Water
16. Describe what is happening when you are having problems with your septic system, and when was this first noticed?
Leach field not operating properly - Fail inspection for sale
17. Do you notice the problem as being patterned or linked to a specific event (i.e., wash clothes, heavy rains, and household guests?) YES NO If Yes, please list _____

CERTIFICATE OF COMPLETION / OPERATIONAL PERMIT

Name: (owner) J Gregory New Installation Septic Tank
Property Location: SR# 210 Repairs Nitrification Line
Subdivision DEER RUN Lot # 14
TAX ID# _____ Quadrant # _____
Contractor: OTIS STRICKLAND Registration # 12

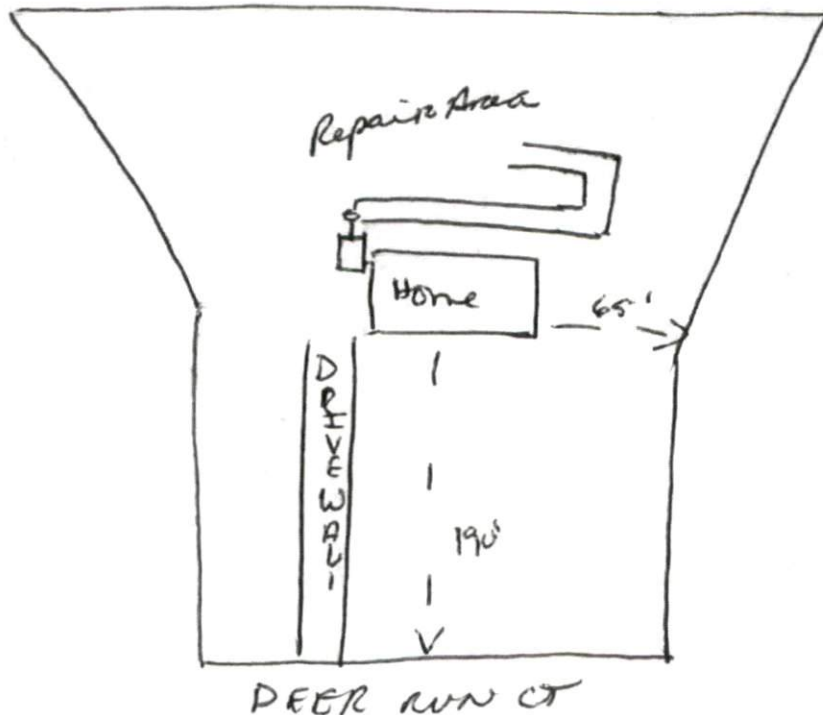
Basement with Plumbing: Garage:
Water Supply: Well Public Community
Distance From Well: 50' ft.

Following are the specifications for the sewage disposal system on above captioned property.

Type of system: Conventional Other _____
Size of tank: Septic Tank: 1000 gallons Pump Tank: _____ gallons
Subsurface Drainage Field No. of ditches 2 exact length of each ditch 135 ft. width of ditches 3 ft. depth of ditches 28 in.
French Drain: _____ Linear feet

PERMIT NO. 10457

Date: 11-22-97
Inspected by: James E. Mandala
Environmental Health Specialist



IMPROVEMENT PERMIT

Be it ordained by the Harnett County Board of Health as follows: Section III, Item B. "No person shall begin construction of any building at which a septic tank system is to be used for disposal of sewage without first obtaining a written permit from the Harnett County Health Department".

Name: (owner) J. Gregory New Installation Septic Tank
Property Location: SR# 210 Repairs Nitrification Line

DEER RUN CT

Subdivision DEER RUN Lot # 14

Tax ID# _____ Quadrant # _____

Number of Bedrooms Proposed: 3 Lot Size: _____

Basement with Plumbing: Garage:

Water Supply: Well Public Community

Distance From Well: N/A ft.

Following is the minimum specifications for sewage disposal system on above captioned property. Subject to final approval.

Type of system: Conventional Other _____

Size of tank: Septic Tank: 1000 gallons Pump Tank: _____ gallons

Subsurface Drainage Field No. of ditches 2 exact length of each ditch 135 ft. width of ditches 3 ft. depth of ditches 28 in.

French Drain required: N/A Linear feet

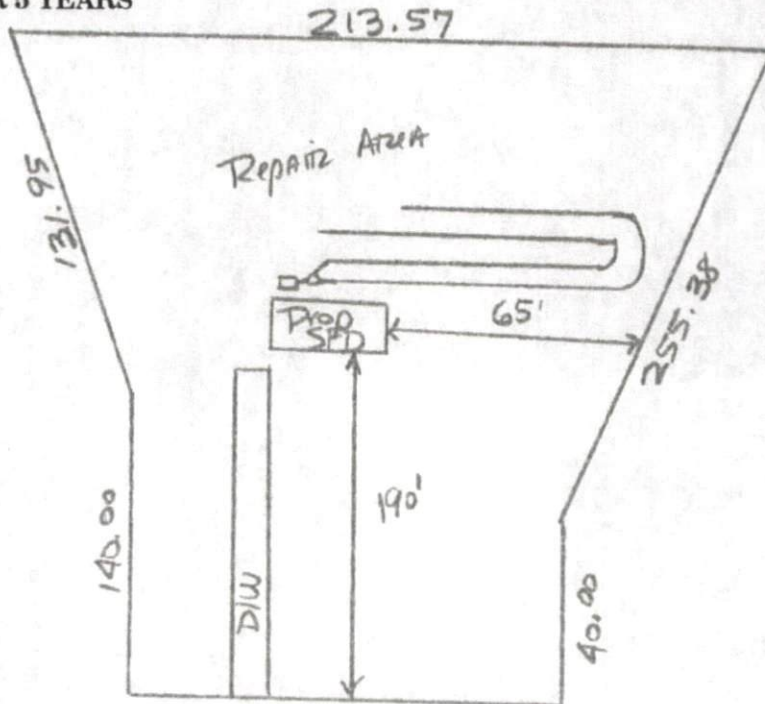
This permit is subject to revocation if site plans or intended use change.

Date: 5-21-95

Signed: Vincent J. Manzi R.S.

Environmental Health Specialist

VOID AFTER 5 YEARS



DEER RUN CT

For Registration Kimberly S. Hargrove
 Register of Deeds
 Harnett County, NC
 Electronically Recorded
 2018 Apr 19 03:34 PM NC Rev Stamp: \$ 0.00
 Book: 3597 Page: 943 - 944 Fee: \$ 26.00
 Instrument Number: 2018005382

HARNETT COUNTY TAX ID #
 04-0673-0132-15

04-19-2018 BY: SB

NORTH CAROLINA GENERAL WARRANTY DEED

Excise Tax: none		NO TITLE SEARCH OR CLOSING PERFORMED	
Parcel Identifier No. <u>04-0673-0132-15</u> Verified by <u>Harnett</u> County on the <u> </u> day of <u>April</u> , 20 <u>18</u>			
By: _____			
Mail/Box to: <u>Mail to: Grantee</u>			
This instrument was prepared by: <u>Pope & Pope, Attorneys at Law, P.A.</u> (File No. <u>18-227</u>)			
Brief description for the Index: <u>Lot 14, Deer Run S/D, Plat Cabinet F, Slide 330-A, Black River Twp</u>			
THIS DEED made this <u>19th</u> day of <u>April</u> , 20 <u>18</u> , by and between			
GRANTOR		GRANTEE	
Holly Marie Short, Separated		Jeffrey Lynn Short, Separated	
501 Spruce Hollow Drive Fuquay-Varina, NC 27526		184 Deer Run Court Angier, NC 27501	

Enter in appropriate block for each Grantor and Grantee: name, mailing address, and, if appropriate, character of entity, e.g. corporation or partnership.

The designation Grantor and Grantee as used herein shall include said parties, their heirs, successors, and assigns, and shall include singular, plural, masculine, feminine or neuter as required by context.

WITNESSETH, that the Grantor, for a valuable consideration paid by the Grantee, the receipt of which is hereby acknowledged, has and by these presents does grant, bargain, sell and convey unto the Grantee in fee simple, all that certain lot, parcel of land or condominium unit situated in the City of _____, Black River _____ Township, Harnett _____ County, North Carolina and more particularly described as follows:

LYING AND BEING in Black River Township, Harnett County, North Carolina and being all of that tract or parcel designated as Lot No. 14, containing 33,154 square feet, more or less, as shown on a map prepared by Benton W. Dewar and Associates, Registered Land Surveyor, Holly Springs, NC dated August 14, 1994, and captioned "P.U.D. Survey of: DEER RUN" which said map is recorded in Plat Cabinet F, Slide 330-A, in the Harnett County Registry of Deeds, to which map reference is hereby made for a greater certainty of description.

For chain of title see: Deed Book 2178, Page 793, Harnett County Registry. The parties hereto did duly execute a written separation agreement on December 26, 2017.

This deed is made pursuant to N.C.G.S. § 39-13.3, N.C.G.S. § 52.10 and N.C.G.S. § 52.10.1 in order to vest title to the above described property solely in the Grantee herein, free and clear of any right, title, and interest of the Grantor herein. (For the purposes of this paragraph only, "Grantor" shall mean any Grantor other than the individual Grantee spouse in whom title is to remain vested herein). The Grantor hereby waives, releases and quitclaims forever unto the Grantee (1) any and all right to share in the estate of the Grantee upon the Grantee's death as provided in N.C.G.S. § 29-14, and the right to administer the Grantee's estate as provided in N.C.G.S. § 28-4-1, (2A) all and every right to elect to take a life estate upon the death of the Grantee under N.C.G.S. § 29-30 and 39-7, (3) all and every right to dissent from the will of the Grantee including under N.C.G.S. § 30-1, (4) any and all rights arising out of any action for Equitable Distribution under N.C.G.S. § 50-20, (5) any and all community property laws of any state, (6) any and all right to an elective share pursuant to N.C.G.S. § 30-3.1 et. Seq. and (7) any and all other rights and interest in said real estate which the Grantor now has or may hereafter have or acquire arising out of or accruing to said Grantor by reason of past, current, or future marital relationship with the Grantee.

The property hereinabove described was acquired by Grantor by instrument recorded in Deed Book 2178, Page 793

Harnett County Registry

All or a portion of the property herein conveyed includes or does not include the primary residence of a Grantor.

A map showing the above described property is recorded in Plat Book F page 330-A.

TO HAVE AND TO HOLD the aforesaid lot or parcel of land and all privileges and appurtenances thereto belonging to the Grantee in fee simple.

And the Grantor covenants with the Grantee, that Grantor is seized of the premises in fee simple, has the right to convey the same in fee simple, that title is marketable and free and clear of all encumbrances, and that Grantor will warrant and defend the title against the lawful claims of all persons whomsoever, other than the following exceptions:

1. 2018 Harnett County ad valorem taxes and subsequent years not yet due and payable.
2. This property is sold subject to all restrictions, easements, rights-of-way, covenants, and other such matters of record.
3. This property is sold subject to all such facts as a current survey of the subject property would reveal.
4. This property is conveyed subject to all outstanding liens, mortgages and other encumbrances of record.

IN WITNESS WHEREOF, the Grantor has duly executed the foregoing as of the day and year first above written.

By: _____ Holly Marie Short (SEAL)
 (Entity Name) Print/Type Name: Holly Marie Short

By: _____ (SEAL)
 Print/Type Name & Title: _____ Print/Type Name: _____

By: _____ (SEAL)
 Print/Type Name & Title: _____ Print/Type Name: _____

By: _____ (SEAL)
 Print/Type Name & Title: _____ Print/Type Name: _____

State of North Carolina - County or City of Harnett

I, the undersigned Notary Public of the County or City of Harnett and State aforesaid, certify that Holly Marie Short personally appeared before me this day and acknowledged the due execution of the foregoing instrument for the purposes therein expressed. Witness my hand and Notarial stamp or seal this 17th day of SEPTEMBER, 2018.

Notary Public
 My Commission Expires SEPTEMBER 2021, NC
 (Affix Seal)

[Signature]
 Notary Public
 Notary's Printed or Typed Name

State of _____ - County or City of _____

I, the undersigned Notary Public of the County or City of _____ and State aforesaid, certify that _____ personally appeared before me this day and acknowledged the due execution of the foregoing instrument for the purposes therein expressed. Witness my hand and Notarial stamp or seal this _____ day of _____, 20____.

My Commission Expires: _____ Notary Public
 (Affix Seal) Notary's Printed or Typed Name

State of _____ - County or City of _____

I, the undersigned Notary Public of the County or City of _____ and State aforesaid, certify that _____ personally came before me this day and acknowledged that he is the _____ of _____, a North Carolina or _____ corporation/limited liability company/general partnership/limited partnership (strike through the inapplicable), and that by authority duly given and as the act of such entity, he signed the foregoing instrument in its name on its behalf as its act and deed. Witness my hand and Notarial stamp or seal, this _____ day of _____, 20____.

My Commission Expires: _____ Notary Public
 Notary's Printed or Typed Name



LEGEND

- ECM - EXISTING CONCRETE MONUMENT
 - EIP - EXISTING IRON PIPE
 - EIS - EXISTING IRON STAKE
 - ERS - EXISTING RAILROAD SPIKE
 - EPK - EXISTING PK NAIL
 - EN - EXISTING NAIL
 - IPS - IRON PIPE SET
 - ISS - IRON STAKE SET
 - RSS - RAILROAD SPIKE SET
 - NS - NAIL SET
 - R/W - RIGHT OF WAY
 - D.B. - DEED BOOK
 - B.M. - BOOK OF MAPS
 - CL - CENTERLINE
 - MBL - MINIMUM BUILDING LIMIT
 - SB - SETBACK
 - SA - STREET ADDRESS - 36 MFT PREFIXED NUMBER IN BOX (EX. 3800 IS ADDRESS)
- COURSE BEARING DISTANCE
- L1 N 77°45'00"W 42.50'

CURVE	RADIUS	LENGTH	CHORD	CH BEARING
C1	25.00'	35.97'	32.94'	N 00°01'04"E
C2	272.50'	43.88'	43.83'	N 36°50'04"W
C3	272.50'	135.81'	134.41'	N 17°41'41"W
C4	272.50'	35.27'	35.25'	N 00°17'31"E
C5	1201.10'	32.00'	32.00'	N 04°45'48"E
C6	1201.10'	140.95'	140.86'	N 08°53'18"E
C7	25.00'	37.88'	34.36'	N 31°09'27"W
C8	65.00'	131.91'	110.41'	N 18°25'47"W
C9	65.00'	82.29'	76.90'	N 77°58'20"E
C10	65.00'	34.40'	34.00'	S 20°56'06"E
C11	65.00'	46.41'	45.43'	S 14°09'13"E
C12	65.00'	7.69'	7.69'	S 08°51'32"W
C13	1156.10'	46.37'	46.37'	S 17°06'04"W
C14	1156.10'	110.10'	110.06'	S 07°13'28"W
C15	1156.10'	10.00'	10.00'	S 04°14'52"W
C16	227.50'	134.38'	135.44'	S 12°55'25"E
C17	227.50'	45.07'	45.00'	S 33°51'17"E
C18	25.00'	42.57'	37.61'	S 89°58'56"E

REFERENCES

- 1 - UNRECORDED MAP BY E.C. SMITH DATED: JAN. 10, 1946
- 2 - D.B. 1019 PGS. 292-293

NOTES

ALL DISTANCES ARE HORIZONTAL GROUND UNLESS OTHERWISE SHOWN

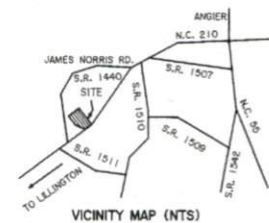
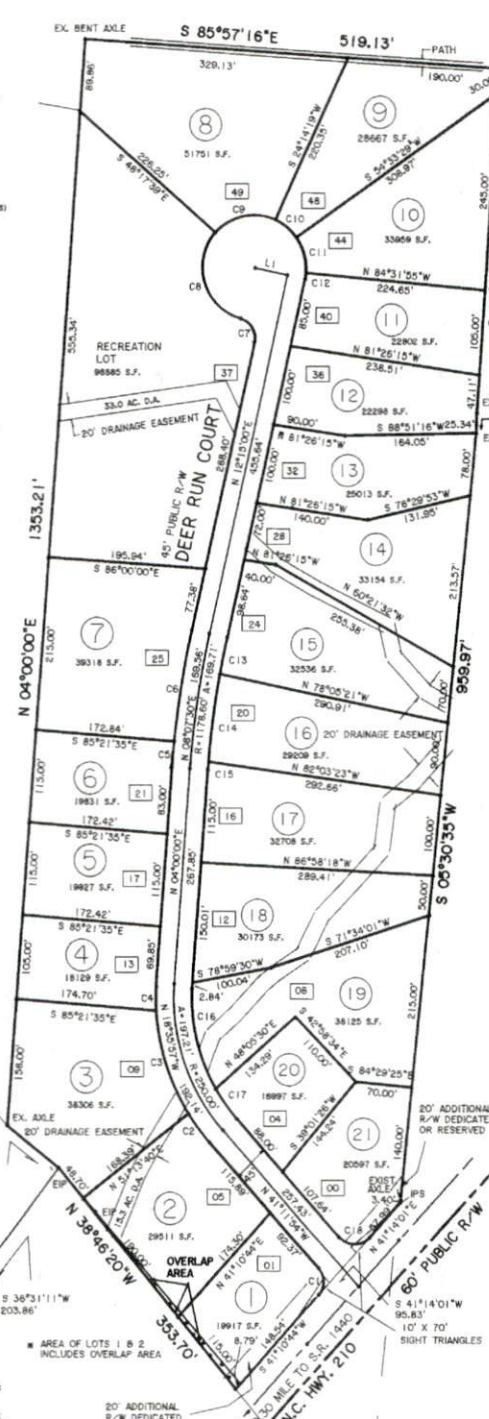
SETBACKS

- 35' - FRONT
- 10' - SIDE
- 25' - REAR
- 20' - CORNER SIDE

OWNER: J. GREGORY
8312 FAYETTEVILLE RD.
RALEIGH, N.C. 27603

THIS PROPERTY IS NOT LOCATED IN A FLOOD HAZARD AREA AS MAPPED BY F.E.M.A. F.E.M.A. MAP NO. 370800000 D EFFECTIVE DATE: APRIL 16, 1990

THE LOTS ON THIS PLAN HAVE BEEN EVALUATED BY A PRIVATE...
8-25-94 DATE
Thomas A. Boone
Deputy Registrar



DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PROPOSED SUBDIVISION FOR
CONSTRUCTION STANDARDS CERTIFICATION

APPROVED *[Signature]*
REGISTERED ENGINEER
DATE 8/19/94

NOTE: ONLY N.C.D.O.T. APPROVED STRUCTURES ARE TO BE CONSTRUCTED ON PUBLIC RIGHT OF WAY

NORTH CAROLINA - HARNETT COUNTY
THE FOREGOING CERTIFICATE (SA OF THE NOTARY PUBLIC (NOTARIES PUBLIC) IS/ARE CERTIFIED TO BE CORRECT. THIS INSTRUMENT WAS PRESENTED FOR REGISTRATION AND RECORDED IN THIS OFFICE ON 8/25/94 AT 4:15 O'CLOCK P.M. 1994
Sandra P. Holder by: Judi C. Smith
REGISTER OF DEEDS - ASST. DEPUTY

CERTIFICATION OF SUBDIVISION REVIEW BY HARNETT COUNTY HEALTH DEPARTMENT
The health officer has reviewed the subdivision plan and has determined that the subdivision meets the minimum standards for subdivision and that the subdivision is in compliance with the health department regulations. The health officer has no objection to the subdivision and has approved the subdivision for registration and recording. This approval is given on the condition that the applicant shall comply with all applicable laws and regulations of the health department. APPROVAL OR PERMIT FOR ANY SITE WORK: FINAL APPROVAL, REGISTRATION, RECORDING OF APPROPRIATE HARNETT COUNTY HEALTH DEPT. PERMITS FOR SPECIFIC USE AND SITING IN ACCORDANCE WITH REGULATIONS IN FORCE AT THE TIME OF PERMITTING.

DATE 8-23-1994 SOIL SCIENTIST

CERTIFICATE OF OWNERSHIP, DEDICATION AND JURISDICTION

I (WE) HEREBY CERTIFY THAT I AM (WE ARE) THE OWNER(S) OR AGENT OF THE PROPERTY SHOWN AND DESCRIBED HEREON AND THAT I (WE) HEREBY ADOPT THIS PLAN OF SUBDIVISION WITH MY (OUR) FREE CONSENT, ESTABLISH THE MAIN-NEED BUILDING SETBACK LINES AND DEDICATE ALL STREETS, ALLEYS, WALKS, PARKS AND OTHER SITES AND EASEMENTS TO PUBLIC OR PRIVATE USE AS NOTED, ALL OF THE LAND SHOWN HEREON IS WITHIN THE SUBDIVISION REGULATION JURISDICTION OF HARNETT COUNTY EXCEPT:

8-23-1994 (DATE)

04-0673-0132 TAX PARCEL I.D. NUMBER
OWNER
OWNER

P.U.D. SURVEY OF

DEER RUN

LOT 3 DIVISION OF THE LANDS OF THE LATE L.B. BARBOUR AND WIFE, CARA B. BARBOUR HARNETT COUNTY - BLACK KRUISE TRWP, NORTH CAROLINA

SCALE: 1" = 100' AUGUST 4, 1994
100 0 100 200 300
GRAPHIC SCALE - FEET

BENTON W DEWAR AND ASSOCIATES
REGISTERED LAND SURVEYOR
5820 HONEYCUTT ROAD
HOLLY SPRINGS, NC 27540
PH # (919)-552-9813

ZONED - RA 30

7th Slide 330A

RECORDED IN PLAT CAB. F, SLIDE 330A, HARNETT COUNTY REG.

NOTARY PUBLIC
JOHNSTON COUNTY - NORTH CAROLINA
I, BENTON W. DEWAR, REGISTERED LAND SURVEYOR, PERSONALLY APPEARED BEFORE ME THIS DAY AND ACKNOWLEDGED THE EXECUTION OF THE FOREGOING INSTRUMENT, WITNESS MY HAND AND OFFICIAL SEAL, THIS 22nd DAY OF AUGUST 1994
My Commission Expires 3-17-1997





Advantage Inspection

4020-111 Wake Forest Rd. Raleigh, NC 27609 Ph# 919-850-2526

SEPTIC SYSTEM EVALUATION

Date: January 27, 2022
Report for: Audrey & Gary Kane
Inspection address: 184 Deer Run Court, Angier, NC 27501
Realtor: Pete Marston (Hunter Rowe - Real Estate Agents and Advisors))
System Design: 1996



The following photo log and inspection dissertation provide visual and procedural inspection information at the time of the inspection. Please skip to the conclusion in the report to see any repairs and/or suggestions that may be considered necessary.

PHOTO LOG:



Higher sustained effluent level (secondary chamber shown open for inspection)



Effluent filter shown removed and cleaned



Location of distribution box shown



Location of distribution box marked with orange flag



Area of drain field (Addition noted as being over top of drain field)



Area of drain field



Inspection Limitations:

- The septic tank was not pumped at the time of the inspection. It is not possible to inspect or report on physical conditions with respect to the septic tank interior below the wastewater effluent levels or to fully determine the condition of the drain field lines due to being installed below the surface dirt grade.

System Type: Conventional Gravity— Gravity feed distribution systems are the most commonly found/used septic systems and utilizes gravity alone to pass wastewater effluent from the septic tank to the drain field.

System Design: Three bedrooms – Load requirements have been verified by the information provided on the originally installed installation permit.

Kitchen Disposal: Not installed - A food waste disposal system is not recommended to be used with a septic system.

Irrigation system: Not installed

Field Observations: The septic tank and drain field site grades to the back side of the lot at the field location per permit.

Tank location: Approximately 12 feet away from the house.

Note: The back addition is encroaching on the septic system (drain field). Foundations, footing, sidewalks, driveways etc, must have a 5-foot clearance from the septic tank. In some municipalities, a 3-foot clearance is allowed. (See link below) Although it varies county to county checking with the local health department will help clarify what the specifics are pertaining to decks/house foundations encroachment.

<http://www.wakegov.com/water/wastewater/Pages/faqs.aspx>

Tank size: 1000 gallons concrete mid seam (typical in system designs servicing 3-bedroom homes)

Water source: Metered Water

Property side setbacks: The septic tank and drain lines (nitrification field) are all visually confirmed as being located more than 10 feet from any property line.

Repair Area: A repair area should be designated on the originally issued permit. Checking the permit will verify whether or not a repair area for the drain field has been established.

Description.	Good	Comments	Fair	Poor
Field View (visual only observations) grade of yard	x	Grade to back section of lot (per permit)		
Rust / Cracks on tank Interior		Not Pumped not inspected		
Outlet		Not inspected		
Upper crust primary*	0"			
Upper crust secondary*	0"			
Lower sludge primary*	2"			
Lower sludge secondary*	1"			

*The Health Department recommends the combination of upper crust and lower-level sludge to be maintained less than 1/3 the total volume of the primary chamber depth and that the lower-level sludge to be more than 3 inches below the inlet to the secondary drain trap. **Preventive maintenance pumping of the septic tank is not considered necessary at this time. Maintenance pumping is recommended to be performed every four to five years.**

Observations & Recommendations:

1) The septic tank is located approximately 12 feet off the left of the house foundation. The primary chamber was excavated, opened, and inspected. The solid accumulation inside of the primary chamber was noted as being at an acceptable level (**A higher sustained effluent level was noted inside of the septic tank**).

2) The secondary chamber was excavated, opened, and inspected. The accumulated lower level sludge layer solids were noted as being at an acceptable level of accumulation. The secondary chamber will only accumulate solids if the primary chamber is saturated allowing solids to pass through the divider wall or over top of the divider wall and/or if preventative maintenance of the chamber is not provided allowing overtime suspended solids settle out as the effluent passes through the system. Solid accumulation in the secondary chamber will subject the drain field to higher levels of solids and should be avoided. A repair modification was noted at the outlet drain inside the secondary chamber. The outlet drain repair consists of a retrofitted plastic outlet drain trap assemble. This repair modification was required due to deterioration of the originally installed cement outlet baffle. The PVC (plastic) outlet drain assembly is secure to the tank. The effluent filter was removed and cleaned.

The sustained high effluent level inside the septic tank at the time of the inspection prevented an evaluation of any of the tank wall drainpipe penetrations and the evaluation should include pumping the system. Evaluation of the internal components inside the septic tank needs to be provided at the time of the pumping service.

3) **A higher sustained effluent level was observed inside the septic tank at the time of the inspection. A normal effluent level, inside the septic tank, places the water level at the invert (bottom of the drainpipe) of the outgoing drain line. The higher effluent level is an indication that there is a restriction in the outgoing drain line leading to the drain field.**

4) Probing for the distribution box in the known area of the drain field was successful and the distribution box was **Not** opened to visually inspect (marked with an orange flag). High effluent levels inside the septic system are putting positive pressure on the distributions system which would have prevented the box from being able to be opened. **Further evaluation of the systems operating performance needs to be provided by a qualified contractor. ****

Based on the information determined at the time of the inspection, the drain field is known to be located at the rear quadrant of the lot. **Note: A section of the drain field is located under the back addition. The location of the septic tank's distribution box along with the permit suggest that the addition is above a section of the drain field.**

The drain field works by absorbing the effluent in the surrounding sub surface soils as well as with some evaporation and transpiration. The soils beneath the drain field need oxygen so that the microbes in the soil can treat the effluent from coming from the drain lines in what is called the bio-mat. When a permanent structure is built over a drain field, it can restrict the oxygen flow into the soil and restrict the evapotranspiration process. Another big risk to building over a drain field is causing the lines to collapse. Also, the soil can compact around the trenches, which may not allow for percolation. Repairing the drain field or moving it may require an entirely new system depending on the system age and the regulations of the local authority.

5) The normal aging of this system has decreased the drain field's ability to dissipate wastewater effectively during periods of heavy loading. Over time drain fields will decrease in the effectiveness of dissipating wastewater effluent into the surrounding soils and is a naturally occurring aging process of the system. It should be expected (due mostly to age) that this drain field is operating at a lower operating efficiency with respect to its ability to disperse wastewater effluent to the surrounding subsurface soils.

6) Limit any/all drive traffic in the known area of the septic tank and drain lines. The drain field works by absorbing water in the soils as well as by some evapotranspiration. The soils beneath the drain field lines need oxygen so that the microbes in the soil can treat the effluent from the drain field. Permanent structures build/placed over a drain field can restrict the oxygen flow into the soil and will restrict the evapotranspiration process. Additionally, a big risk to placing structures over a drain field or allowing drive trafficking over the drain field is causing the lines to collapse. Also, the soil can compact around the trenches, which may not allow for percolation. Repairing the drain field or moving it may require an entirely new system depending on your system age and the regulations for your local authority. Do not place structures or drive vehicles over the known area of the septic system/drain field.

7) Limit use of the septic system to body waste only. Disposal of female hygiene products, contraceptives, baby and facial makeup wipes large amounts of paper products and kitchen waste products can shorten expected drain field life expectance.

8) For more information about a septic system and the responsibilities associated with it, go to the following web site: <http://www.soil.ncsu.edu/publications/Soilfacts/AG-439-13/index.htm>

Conclusion:

Septic system was fully evaluated at the time of the inspection. Adverse conditions were shown to be present in the system itself that require further evaluation and/or repairs to be made by a qualified contractor or subsequent observation that warrants further evaluation by the local health department**

Adverse Inspection Observations:

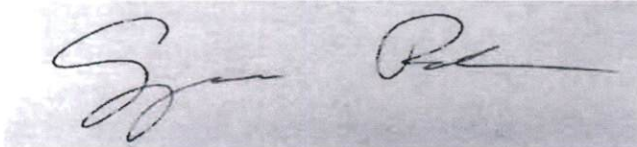
- **A higher sustained effluent level was observed inside the septic tank at the time of the inspection. A normal effluent level, inside the septic tank, places the water level at the invert (bottom of the drainpipe) of the outgoing drain line. The higher effluent level is an indication that there is a blockage in the outgoing drain line leading to the drain field. An evaluation of the drain field's ability to disperse effluent to the surrounding sub surface soils needs to be completed after any cleaning/removal of solids found block the effluent flow is removed**.**
 - **An evaluation of the distribution box will need to be provided as part of the removal of solids restricting effluent flow through the system and any repair necessary should be addressed and fixed by a qualified contractor if one is incorporated.**
 - **The sustained high effluent level inside the septic tank at the time of the inspection prevented an evaluation of the outlet/baffle of the outlet side tank wall drainpipe penetration. Evaluation of the internal component inside the septic tank needs to be provide once the effluent level is returned to a normal level.**
- **The back foundation addition is encroaching on the septic system. The addition of the house was noted as being built overtop a portion of the drain field. A septic tank cannot be used as a means of support for any structure whatsoever. A variance for the encroachment of the addition on the septic system should be provided and repairs made so that the no part of the septic system is providing support for the raised structure above it.**
 - **Consult with the local environmental health department to evaluate the current condition of the septic tank and to determine what the next course of action needs to be.**
 - **The back addition can affect the operating efficiency of the system by compacting the soils underneath, it in the area of the drain lines and by reducing the open free space of ground surface above the drain field which reduces naturally occurring transpiration.**

The following preventative maintenance suggestions are recommended to be followed:

- **Clean the effluent filter every one to two years.**
- **Keep the landscape at the septic field location free of large shrubs/trees and mowed. This will prevent root intrusion into the drain lines and help promote transpiration of the effluent being dispersed from the system.**

- It is suggested that a preventative maintenance treatment of a root killer be added in the septic system to kill off any root mass intruding into the drain lines. Any products (specified for septic system use) that consist mostly of copper sulfate will kill off existing roots and prevent further root growth from growing in and around the drain lines.

Please note that suggestions are not a "required repair". Suggestions are a means to improve on the system's ability to process wastewater in the home based on more recent requirements mandated in newer system installation or as a personal safety concern alone. Inspections cannot require an older system (even if more recent repairs have been noted) to be brought up to installation standards other than what was required at the time of the original installation and/or noted repairs currently existing in the system. Suggestions are only provided so that the current service provider can be aware of ways to improve/enhance the operation of the existing system to extend the useful life of the system.



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Disclaimer:

Because of the visual nature of this septic system, it is not possible to inspect or report on physical conditions with regard to the septic tank interior below the wastewater effluent levels if the inspection was performed without pumping of the septic tank or the drain field lines due to being installed in the sub surface dirt grade. The inspector can only address those areas that are readily accessible at the time of the inspection. A septic system inspection is a "snapshot" of the system at the time of the inspection; it is designed to educate a buyer or seller about the system, not to replace the obligation of a home seller to disclose known defects. Observations made may require speculation on the part of the inspector in the analysis of how the system has been provided for and what the expectations of the system may be. A septic system inspection is not a guarantee or warranty of the condition of the system; neither is it a guarantee that conditions will not change in the future. Advantage does not make any representation to the "life expectancy" of the tank or the system. Our inspection is based on a one-time field observation and recommendation.

We recommend that appropriately licensed professionals carry out all repairs. Your real estate contract may include this as a stipulation as well. We also recommend that the buyer retain all repair work orders, receipts, and guarantees for future reference. If Advantage Inspection performs an inspection of the system after repairs are completed, the repair work orders, and receipts must be made available to the inspector at the time of the re inspection. Some repairs, such as back flushing of the septic drain lines, cannot be confirmed visually, and at times the repair receipts are the only indication of the nature and suitability of the repair. Please ensure that relevant repair receipts will be available for view by your septic system inspector during the re inspection, if asked to perform.

*This evaluation/inspection meets the requirements of the state and local environmental health service agencies with respect to required observations and/or notation of limitations present at the time of the inspection.

** Only an official of Environmental Health Services Department can qualify a system as being failed.