HAL OWEN & ASSOCIATES, INC.

SOIL & ENVIRONMENTAL SCIENTISTS

P.O. Box 400, Lillington, NC 27546-0400 Phone (910) 893-8743 / Fax (910) 893-3594 www.halowensoil.com

Site Addres	ss:	4722 McNeill Hobbs	s Rd		
County:	Harne	tt	_PIN_	0566-49-1418.000	
LHD Refer	ence:	SFD2405-0023			
Applicant:					
Nam	ne:	Steve Thomas			
Add	ress:	PO Box 825, Broadw	vay, NC	27505	
I,				<u>,</u> acknowledge	e receipt of the Licensed
Soil Scientis	st Report	which includes:			
• Sign	ed and se	aled copy of the AOW	Æ's rep	ort that includes the int	formation in G.S. 130A-
336.	2(k)				
	. ,	to Operate			
		•			
• Oper	ration and	l Management Progran	n		
I accept the	septic s	ystem installation and	l under	stand that I will be re-	sponsible for continued
adherence to	the Ope	rations and Manageme	ent prog	gram established by the	AOWE.
Signature					Date

HAL OWEN & ASSOCIATES, INC.

SOIL & ENVIRONMENTAL SCIENTISTS

P.O. Box 400, Lillington, NC 27546-0400 Phone (910) 893-8743 / Fax (910) 893-3594 www.halowensoil.com

18 July 2025

Steve Thomas PO Box 825 Broadway, NC 27505

Reference: LSS Report for Authorization to Operate (ATO) 4722 McNeill Hobbs Rd, Bunnlevel, NC

LHD # SFD 2405-0023

Dear Mr. Thomas,

This LSS Report is being provided pursuant to and meets the requirements of G.S. 130A-336. This report is based on information provided by the property owner or their representative. Hal Owen & Associates, Inc. is not responsible for false or misleading information that may have been provided to us in pursuit of this permit, nor for concealed conditions on the property. Hal Owen & Associates Inc. does not warrant that the septic system will continue to function satisfactorily in the future.

The septic system for the above referenced property has been installed and was inspected by Hal Owen & Associates staff on 25 June 2025 and 18 July 2025. The system has been installed in compliance with applicable NC General Statutes, Rules for Sewage Treatment and Disposal, and all conditions of the AOWE Permit. The system was installed within the design parameters of the Permit with some minor changes, which included adjustments to drainline lengths.

Enclosed with this report are the *Septic System Final Inspection Report*, As-Built map (Figure 1), and *Operation and Management Program*.

You will need to sign a document confirming receipt of this report and acceptance of the installed system (pg 1) and submit this report to the Local Health Department (LHD). The LHD shall issue a certificate of occupancy upon receipt of a complete ATO.

I appreciate the opportunity to provide this service. If you have any questions or need additional information, please contact me at your convenience.





Sincerely,

Hal Owen

Licensed Soil Scientist

Authorized Onsite Wastewater Evaluator

Mwan

Contacts

APPLICANT

Applicant Name	Steve Thomas
Mailing Address	PO Box 825, Broadway, NC 27505
Telephone Number	919-906-4069
E-mail Address	southernconcrete@windstream.net

SOIL SCIENTIST

Company Name	Hal Owen & Associates, Inc.
Mailing Address	PO Box 400, Lillington, NC 27546
Telephone Number	910-893-8743 Fax: 910-893-3594
E-mail Address	hal@halowensoil.com
Licensed Soil Scientist	Hal Owen, LSS#1102 and AOWE# 10036E
System Designer	Jocelyn Proulx
System Inspector	Jocelyn Proulx #9943I

INSTALLER

Company Name	Yellow Dog Grading & Landscaping
Mailing Address	2693 McDougald Rd, Lillington, NC 27546
Telephone Number	(910) 890-0328
Installer & Certification #	Richard A. Moss #4621

LOCAL HEALTH DEPARTMENT

Agency Name	Harnett County Health Department
	Environmental Health Division
Mailing Address	307 W Cornelius Harnett Blvd, Lillington, NC 27546
Telephone Number	(910) 893-7547
LHD Application #	SFD2405-0023

Septic System Final Inspection Report

Property Identifiers

County	Harnett	PIN	0566-49-1418.000
Size (Acre)	0.69	County PID	
Site Address	4722 McNeill Hobbs	s Rd	
S/D Name and Lot#	# Lot 2		

System Description

Facility Type	Single Family Residence
Basement	No
Basis of flow	3 bedrooms
Wastewater Strength	Domestic
Design Wastewater Flow	360 gpd
Water Supply	Public
.0403 Eng Low Flow	No
Soil LTAR	0.40
System Type	IIIbg

Installation

Date	Drainlines installed: 25 June 2025 Pump Final: 18 July 2025
Date	1
System Inspector	Jocelyn Proulx, #9943I
Installer	Richard A. Moss #4621

Septic Tank:

1000
MCP STB-814
NA
NA
8'
5' 6 ½"
5' 9"

Effluent Filter:

Make and Model	Polylok PL-68	
----------------	---------------	--

Pump Tank:

Volume (gallons)	1000
Brand and Tank ID#	MCP PT-53
Date of Manufacture	NA
Certified watertight	NA
Elevation of tank inlet	6' 1"
Elevation of tank outlet	6' 3 ½"

Pump:

Make and Model	Barnes SP33X
Pump Sys- Elevation Head	5.81
Pump Sys- Friction Loss	1.11
Pump Sys- Design Head	2.0
Pump Sys- TDH	8.92
GPM (actual)	23.10

Control Panel:

Manufacturer Alderon Industries APS Simplex Model: APS12	0
--	---

Distribution:

Supply Line Length to Distribution	31'
Supply Line Diameter	2"
Distribution Device:	Pressure Manifold
Number of outlets (laterals)	2

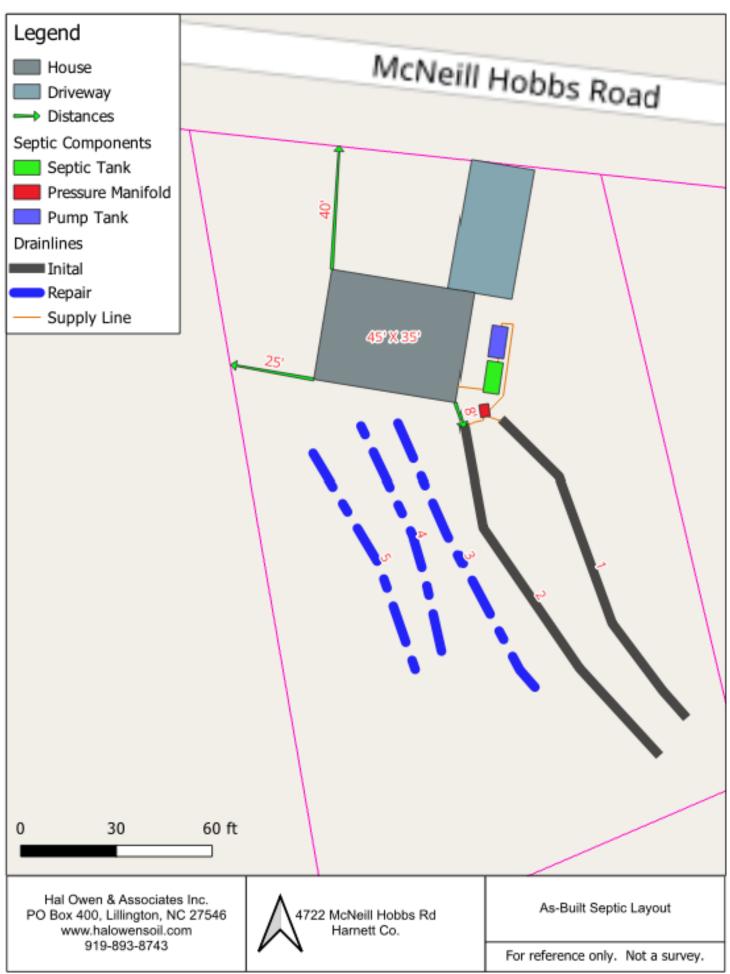
Drainfield:

Type	Quick4 Standard Chamber
Distance to Structure	8'
Distance to Well	NA

Trench Depth		Trench Depth		15"	Trench width	36"
Trench Space	ing	9'	Aggregate	chamber		
	Length (ft)	<u>Start</u>	<u>Middle</u>	End		
Line 1	110	5' 5"	5' 5"	5' 5 1/2"		
Line 2	118	5' 7 1/2"	5' 7 1/2"	5' 8"		
Total	228					

All elevations are given as relative grade rod reading.

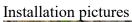
Notes:



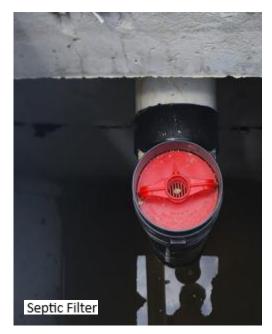
LSS Report for Authorization to Operate (ATO) 4722 McNeill Hobbs Rd LHD # SFD 2405-0023 18 J

















LSS Report for Authorization to Operate (ATO) 4722 McNeill Hobbs Rd LHD # SFD 2405-0023 18 July 2025





Operation and Management Program

In accordance with G.S. § 130A-336.2, the owner is responsible for continued adherence to the operations and management program. Septic systems safely treat and dispose of wastewaters produced in the bathroom, kitchen, and laundry. These wastewaters may contain disease-causing germs and pollutants that must be treated to protect human health and the environment. Septic systems must be properly used, operated, and maintained by the homeowner to assure the long-term performance of the system.

PERN	ΛIΤ	CON	IDI	$\Gamma \Gamma \Omega$	٧S٠

- I. Performance: System shall perform in accordance with Section .1300.
- II. Monitoring: As required by Section .1300.
- III. Maintenance: Ground absorption sewage treatment and disposal systems shall be checked, and the contents of the septic tank removed, periodically from all compartments, to ensure proper operation of the system. The contents shall be pumped whenever the solids level is found to be more than 1/3 of the liquid depth in any compartment.

Ot	her:				
	Subsurface system operator required? Yes	No_	X		
	If yes, see attached sheet for additional operation	on conditio	ns, mai	intenance and reporting	3
IV.	Operation:				_
V. Ot	her:				

TABLE XXXII. Management responsibilities based on wastewater system classification type and description.

System Classification Type and Description	LHD Compliance Inspection Frequency	Management Entity	Management Entity Minimum Maintenance Inspection Frequency
IIIb-Wastewater system with a single pump or siphon	5 years NA	Owner or certified operator	NA 5 years
IIIg- Other non- conventional systems	N/A	Owner	N/A

KNOW WHERE YOUR SEPTIC SYSTEM IS LOCATED

Your property has an onsite subsurface sewage waste disposal system. Familiarize yourself with the location of the system including the tanks, distribution devices, and disposal fields (including repair area). These areas shall be protected from excavation, building additions, outbuildings, pool construction, and soil disturbing activities. Prohibit vehicular traffic over the ground absorption field.

DAY-TO-DAY MANAGEMENT

Don't use too much water.

- ♦ The drainfield does not have unlimited capacity.
- ♦ Typical daily water use is 50 gallons per person.
- ♦ The soil drainfield usually has a maximum daily design capacity of 120 gallons per bedroom, even for short periods of time.
- Overloads can occur seasonally, daily, or on the weekend.
- Water conservation will extend the life of your system.
- Repair dripping faucets and toilets.

Limit disposal to sewage.

- Don't use your septic tank as a trash can for cigarette butts, tissues, sanitary napkins, cotton swabs, cat box litter, coffee grounds, or disposable diapers.
- Restrict the use of your garbage disposal. These add quite a lot of extra solids.
- ♦ Don't pour grease or cooking oil down the drain.
- Don't poison your system with harmful chemicals such as solvents, oils, paints, thinners, discarded medications, disinfectants, pesticides, poisons, and other substances.
- Save money. Commercial septic tank additives are usually not necessary.

Protect the system from physical damage (site maintenance).

- Keep the soil over the drainfield covered with vegetation to prevent soil erosion.
- ♦ Don't drive vehicles over the system.
- ♦ Avoid construction over the system and repair area.
- Don't cover the tank or drainfield with asphalt or concrete.
- Do not install irrigation systems over your drainfield as these could damage the system and/or hydraulically overload the soils.

Dispose of all wastewater in an approved system.

- Don't put in a separate pipe to carry wash waters to a side ditch or the woods. This is illegal.
- Don't connect pipes from air conditioners or ice makers to the septic system.

PERIODIC MAINTENANCE AND REPAIR

Home and yard (site maintenance):

- Protect and maintain the site of your septic tank and drainfield.
- ♦ In the drainfield area, cut down and remove trees that like wet conditions. This includes willows, elms, sweetgums, and some maples.
- ◆ Landscape the yard to divert surface waters away from the tank and drainfield. Eliminate depressional areas within the drainfield.
- ♦ Be sure that the water from the roof, gutters, and foundation drains does not flow over the system.
- Maintain drainage ditches, subsurface tiles, and drainage outlets so that water can flow freely from them.

Septic tank:

- Ensure tank risers remain accessible for measuring and pumping solids as well as cleaning the effluent filter.
- ♦ Measure how quickly sludge and scum accumulate in the tank. Pump septage when solids occupy 1/3 to 1/4 of the liquid capacity of the tank (frequency 1 to 3 years).
- ◆ Don't wait until your drainfield fails to have your tank pumped. By then, the drainfield may be ruined. With septic systems, an ounce of prevention is worth a ton of cure!

Table 1. Estimated septic tank inspection and pumping frequency (in years). Tank Size (gallons)

		Number of People Using the System						
Tank Size (gallons)	1	2	4	6	8			
900	11	5	2	1	<1			
1000	12	6	3	2	1			
1250	16	8	3	2	1			
1500	19	9	4	3	2			

SIGNS OF POSSIBLE SEPTIC SYSTEM PROBLEMS

- Sewage backing up into your toilets, tubs, or sinks.
- Slowly draining fixtures, particularly after it has rained.
- ♦ The smell of raw sewage accompanied by soggy soil or sewage discharged over the ground or in nearby ditches or woods.
- Note: pump systems sewage may come to the ground surface when the pump is turned on and then disappear after the pump turns off. This is still a system failure and must be repaired.
- An alarm flashing (red light) or beeping in the house or in the yard indicating a pump is not working properly or that the water level in a pump tank is too high and close to failure.
- ♦ Don't attempt to repair a failing system yourself. Get a repair permit and hire an experienced contractor.

REGULATIONS AND PRECAUTIONS:

♦ Sewage contains germs that can cause diseases. Never enter a septic tank. Toxic and explosive gases in the tank present a hazard. Old tanks may collapse. Electrical controls present a shock and spark hazard. Secure the septic tank lid so that children cannot open it.

For more information about septic systems, contact your county Extension agent or local health department. https://content.ces.ncsu.edu/septic-system-owners-guide

Experience and study have shown that pressure manifold systems require routine maintenance in order to function properly. Items 1, 4, and 6 are also recommended for conventional septic systems. The maintenance schedule frequency is as follows:

System Component	Frequency	Maintenance
Septic Tank	6-12 months 1-3 years	Check riser condition (must be accessible from ground surface), excess in/exfiltration, entry of water at riser, and solids accumulation. Check and clean septic tank filter. Pump septage when 1-3 to 1/4 of the liquid expensity of the tank is
Pump or Dosing Tank	6-12 months	the liquid capacity of the tank is occupied by solids. Check riser conditions (must be
		accessible from ground surface), excess in/exfiltration, entry of water at riser, and solids accumulation. Pump sludge accumulation as required and when septic tank is pumped. Check pump(s), controls, floats, electrical connections, and alarm for proper operation. Wash (hose) sludge accumulation from pump housing.
Supply Lines (Manifold)	6-12 months	Check for settling, pipe exposure and leakage
Ground Absorption Field	1-4 weeks	Maintain vegetative cover (mow grass and remove weeds and brush). Check for settling, erosion
	6-12 months	and surfacing effluent. Check site drainage, eliminate low or settled areas and divert surface or shallow groundwater movement around fields.
Pressure Manifold	6-12 months	Flush sludge from pressure manifold (any discharge sludge and effluent is to be treated with a chlorine solution). Check and reset pressure head.
General	At all times	Prohibit vehicular or equipment traffic on ground absorption field. Prohibit tillage (gardening) or other soil disturbance over septic field. Practice water conservation to reduce wastewater load on system. Do not permit entry of grease and non-domestic waste to system. Use of garbage disposal is prohibited. Addition of chemical or biological additives has not been demonstrated to be necessary to maintain proper system function. Prevention of root intervention on lateral lines and trenches may be necessary on certain sites. Surface and groundwater diversion structures must be maintained.

PREVENTIVE MAINTENANCE RECORD

Email:	
Firm	Cost
	Email:

CERTIFICATE OF LIABILITY INSURANCE

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER, THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

INSURED

YELLOW DOG GRADING &

ADDRESS

NAME AND LANDSCAPING LLC

2693 MCDOUGALD RD LILLINGTON NC 27546

CERTIFICATE HAL OWENS & ASSOCIATES

HOLDER

PO BOX 400

LILLINGTON, NC 27546

COVERAGES

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS. EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

х	TYPE OF INSURANCE	ADDL	SUBR	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	3
3	COMMERCIAL GENERAL LIABILITY			CPP 0135427	10/04/2024	10/04/2025	GENERAL AGGREGATE	\$1,000,000
	- OCCURRENCE						PRODUCTS - COMP/OPS AGGREGATE	\$1,000,000
	GEN'L AGGREGATE APPLIES PER POLICY						PERSONAL & ADV INJURY	\$1,000,000
							EACH OCCURRENCE	\$1,000,000
							DAMAGE TO RENTED PREMISES (Ea Occurrence)	\$100,000
							MED EXP (Any one person)	\$5,000
ב	DUCINITECOMNITTO						EACH OCCURRENCE	\$
	BUSINESSOWNERS						AGGREGATE	\$
	AUTOMOBILE LIABILITY						COMBINED SINGLE LIMIT (Each accident)	\$
]	SCHEDULED AUTOS						BODILY INJURY (Per person)	\$
]	HIRED AUTOS						BODILY INJURY (Per accident)	\$
	NON-OWNED AUTOS						PROPERTY DAMAGE (Per accident)	\$
	GARAGE LIABILITY							
<u></u>	(Other)				}			
							EACH OCCURRENCE	\$
כ	EXCESS LIABILITY - OCCURRENCE				1		AGGREGATE	\$
,	INODICES CONDENSATION	N/A					WC STATUTORY LIMITS	
3	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY	רשו		WC 0248742	02/11/2025	02/11/2026	E.L. EACH ACCIDENT	\$100,000
	POLICY APPLIES TO THE WORKERS						E.L. DISEASE - EA EMPLOYEE	\$100,000
	COMPENSATION LAW IN THE STATE OF NC				-		E.L. DISEASE - POLICY LIMIT	\$500,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES:

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

DATE 07/18/2025

Banah Belboli