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

Project Name:				
County:	LHD Reference:			
Provided to:				
Name:				
Address:				
I,		_acknowledge	receipt of	f the
Licensed Soil Scientist	Report which includes:			
• Signed and sea	aled copy of the AOWE's report that	at includes the	information ir	ı G.S.
130A-336.2(k)				
• Operation and I	Management Program			
• Authorization t	o Operate			
I accept the septic sys	stem installation and understand that	I will be respon	nsible for con	tinued
adherence to the Opera	ations and Management program estable	lished by the AC	WE.	
Drew Brody Signature				
Signature		Da	ate	

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

14 November 2024

Mattamy Homes, LLC 11000 Regency Parkway, Suite 110 Cary, NC 27518

Reference: LSS Report for Authorization to Operate (ATO)

88 Bering Cir, Angier, NC

Lot 16

LHD # SFD2409-0052

Dear Mattamy Homes, LLC,

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 13 November 2024. 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 the relocation of the repair system due to grading from house construction. 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

Muan

Contacts

APPLICANT

Applicant Name	Mattamy Homes, LLC
Mailing Address	11000 Regency Parkway, Suite 110
	Cary, NC 27518
Telephone Number	919-625-9546
E-mail Address	Drew.brody@mattamycorp.com

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	David Brantley and Sons
Mailing Address	37 Pine Ridge Rd, Zebulon, NC 27597
Telephone Number	(919) 404-9511
Installer & Certification #	Cory J. Brantley #1036

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 #	SFD2409-0052

Septic System Final Inspection Report

Facility Type	Single Family Residence
Wastewater Type	Domestic
Water Supply	Public
Design Wastewater Flow	480 gpd
Soil LTAR	0.60

Installation

Date	13 November 2024
System Inspector	Jocelyn Proulx, #9943I
Installer	Cory J. Brantley #1036

Septic Tank:

Volume (gallons)	1000
Brand and Tank ID#	DB STB 502
Date of Manufacture	9/24/24
Certified watertight	NA
Distance to Structure	14'
Elevation of tank inlet	7' 2"
Elevation of tank outlet	7' 4 ½"

Effluent Filter:

Make and Model SIMTECH STF110	
-------------------------------	--

Pump Tank:

Volume (gallons)	1000
Brand and Tank ID#	DB PT 237
Certified watertight	NA
Elevation of tank inlet	7' 7"
Elevation of tank outlet	7' 9 ½"

Pump:

Make and Model	Ashland EPH30
Pump Sys- Elevation Head	6.0
Pump Sys- Friction Loss	2.1
Pump Sys- Design Head	2.0
Pump Sys- TDH	10.1
GPM (actual)	28.7

Control Panel:

Manufacturer	SJE Rhombus Model # 1121W114H6A8AC10E15A17G
--------------	---

Distribution:

LSS Report for Authorization to Operate (ATO)
88 Bering Cir

Supply Line Length to Distribution	58'
Supply Line Diameter	2"
Distribution Device:	Pressure Manifold
Number of outlets (laterals)	3

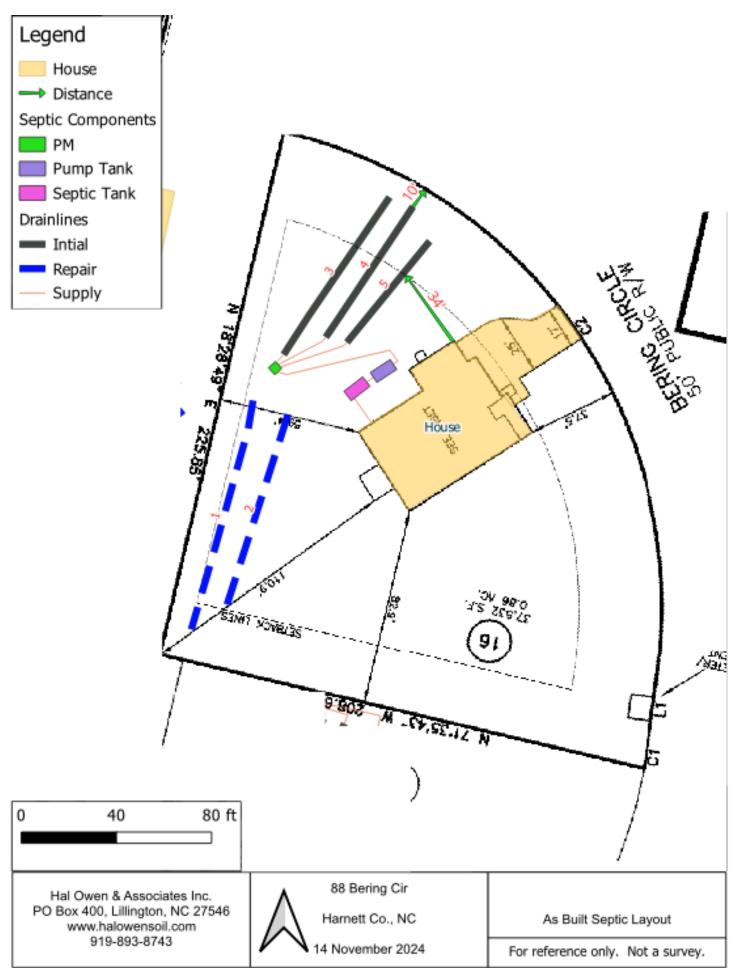
Drainfield:

Type	Quick4 Standard Chamber
Distance to Structure	34'
Distance to Well	NA

Trench Depth		24"	Trench width	36"
Trench Spacing		9'	Aggregate	chamber
	•			
Line 1 Length (ft) Line 1 58		Start	Middle	End
		5' 2"	5' 2"	5' 2"
Line 2	66	5' 4 1/2"	5' 4 1/2"	5' 4 1/2"
Line 3	78	5' 10 ½"	5' 10 ½"	5' 10 ½"
Total	202			

All elevations are given as relative grade rod reading.

Notes:



LSS Report for Authorization to Operate (ATO) 88 Bering Cir





LSS Report for Authorization to Operate (ATO)
88 Bering Cir
LHD # SFD2409-0052 14 N







LSS Report for Authorization to Operate (ATO)
88 Bering Cir
LHD # SFD2409-0052
14 N







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 longterm performance of the system.

PERMIT CONDITIONS:

- I. Performance: System shall perform in accordance with Rule .1961.
- II. Monitoring: As required by Rule .1961.
- 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. Other: Subsurface system operator required? Yes ______ No___ X If yes, see attached sheet for additional operation conditions, maintenance and reporting. IV. Operation: V. Other: _____

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	<mark>6</mark>	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

12

PREVENTIVE MAINTENANCE RECORD

Your Septic	System Pumper				
Nam	ne:				
Addı	ress:				
Phor	ne:	Email:			
Date System	n Installed:				
Date	Work Done		Firm	Cost	



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 11/11/2024

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 have ADDITIONAL INSURED provisions or 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).

this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).											
PRODUCER						CONTACT NAME: Certificate Administrator					
SIA Group, Inc.				PHONE (A/C, No, Ext): 910-455-7576 FAX (A/C, No): 910-455-7481							
827 Gum Branch Road Jacksonville NC 28540					E-MAIL ADDRESS: certs@siagroup.com						
Jac	SKSOTVIIIC INO 20070				ADDRES			ADINO COVERA CE		NAIG#	
								RDING COVERAGE		NAIC #	
INSU	nen.			DAVIBRA-02		RA: Owners I		· · ·		32700	
	vid Brantley & Sons, Inc.			B/(VIBIO) 02		Rв: Auto-Ow			\longrightarrow	18988	
37	Pine Ridge Road				INSURE	R C : FFVA Mu	utual Insuran	ce Co.		10385	
Zel	oulon NC 27597				INSURE	RD:					
					INSURE	RE:					
					INSURE	RF:					
CO	VERAGES CER	TIFIC	CATE	NUMBER: 2025340388				REVISION NUMBER:			
	HIS IS TO CERTIFY THAT THE POLICIES										
	DICATED. NOTWITHSTANDING ANY RE ERTIFICATE MAY BE ISSUED OR MAY										
	KCLUSIONS AND CONDITIONS OF SUCH							D HEREIN IS SUBJECT TO	/ ALL I	HE TERIVIS,	
INSR	TYPE OF INSURANCE	ADDL	SUBR	DOLICY NUMBER		POLICY EFF	POLICY EXP	LIMITS			
LTR A	X COMMERCIAL GENERAL LIABILITY	INSD	WVD	POLICY NUMBER 35506165		7/2/2024	7/2/2025		\$ 1,000.	000	
, ,				00000100		77272024	11212020	EACH OCCURRENCE DAMAGE TO RENTED		,	
	CEANING WINDE COOCIN							T TEIMIOLO (La occanioneo)	\$ 300,00		
	X cont liab							` , , , ,	\$ 10,000		
								PERSONAL & ADV INJURY	JRY \$1,000,000		
	GEN'L AGGREGATE LIMIT APPLIES PER:							GENERAL AGGREGATE	ENERAL AGGREGATE \$2,000,000		
	POLICY X PRO-								RODUCTS - COMP/OP AGG \$2,000,000		
	OTHER:								\$		
Α	AUTOMOBILE LIABILITY			53-914661-00		7/2/2024	7/2/2025	COMBINED SINGLE LIMIT (Ea accident)	\$ 1,000,	,000	
	X ANY AUTO							BODILY INJURY (Per person)	\$		
	OWNED SCHEDULED AUTOS							BODILY INJURY (Per accident)	nt) \$		
	X HIRED X NON-OWNED AUTOS ONLY							PROPERTY DAMAGE (Per accident)	\$		
	7,01,00 0,121							,	\$		
В	X UMBRELLA LIAB X OCCUR			5391466101		7/2/2024	7/2/2025	EACH OCCURRENCE	\$ 3,000,	,000	
	EXCESS LIAB CLAIMS-MADE							AGGREGATE	\$3,000,		
	DED X RETENTION \$ 10,000								\$,	
С	WORKERS COMPENSATION			WC850-0050098-2024A		7/2/2024	7/2/2025	X PER OTH-	<u> </u>		
AND EMPLOYERS' LIABILITY ANYPROPRIETOR/PARTNER/EXECUTIVE								E.L. EACH ACCIDENT	\$ 1,000.	000	
OFFICER/MEMBER EXCLUDED? (Mandatory in NH)		N/A						E.L. DISEASE - EA EMPLOYEE			
	If yes, describe under DESCRIPTION OF OPERATIONS below								\$ 1,000,		
Α	Contractors Equipment			35506165		7/2/2024	7/2/2025	Leased/Rented	\$50,00		
, ,	Somators Equipment			00000100		77272024	11212020	25d55d/1tollica	7,-		
DES	CRIPTION OF OPERATIONS / LOCATIONS / VEHIC	EC //	COBD	101 Additional Bamarka Sahadul	la may ba	attached if more	anasa is result				
DES	CRIPTION OF OPERATIONS / LOCATIONS / VEHICL	_E3 (A	COKD	101, Additional Remarks Schedul	ie, iliay be	attached ii more	s space is require	eu)			
CERTIFICATE HOLDER C						CANCELLATION					
								ESCRIBED POLICIES BE CA			
					THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.						
Hal Owen and Associates 827 S 8th St				,,,,,,,	J. 157 1110E 1111						
				AUTHORIZED REPRESENTATIVE							
	Lillington NC 27546				$\langle \rangle$	(
					Liana Evens						
	1										