

# North Carolina Onsite Wastewater Contractor Inspector Certification Board Authorized Onsite Wastewater Evaluator Permit Option for Non-Engineered Systems Notice of Intent (NOI) to Construct

_x_New Expansion Repair Relocation	Relocation of Repair Area
Owner or Legal Representative Information: Name: Mattamy Homes, LLC	
Mailing address: 11000 Regency Parkway, Suite 110City: Cary	State: NC Zip: 27518
Phone: (704) 616-6107 Email: Lawrence.Mcalister@mattam	ycorp.com
Authorized Onsite Wastewater Evaluator Information:	100265
Name: Hal Owen Certification	
	_State: NC Zip: 27546
Phone: 910-893-8743 Email: hal@halowensoil.com	
Site Location Information:	
Site address: Scarlet Sage Dr	
Tax parcel identification number or subdivision lot, block number of property:	
Bloom Subdivision- North, Lot 13 County: Harnet	tt
System Information:	
Wastewater System Type: Ilb (Accepted wastewater gravity system)  Daily Design Flow: 480 gpd	
Saprolite System: Yes X No Subsurface Operator Required:	Yes X No
Water Supply Type:Private Well x Public Water Supply Spring	Other:
Facility Type:	
X Residential 4 # Bedrooms 8 Maximum # of Occupants	
Business Type of Business and Basis for Flow:	
Public Assembly Type of Public Assembly and Basis for Flow:	
Required Attachments:  ✓ Plat or Site Plan	
V Evaluation of Soil and Site Features by Licensed Soil Scientist	
included with this NOI to Construct is accurate and complete to the best of my knot have adhered to the laws and rules governing onsite wastewater systems in the state.  This NOI shall spring an 16 day of lune 2020.	e of North Carolina.
Signature of Authorized Onsite Wastewater Evaluator:	ran
Signature of Owner or Legal Representative:	
Disclosure: The owner may apply for a building permit for the project upon subm required (if any) to the local health department. An onsite wastewater system auth evaluator shall be transferable to a new owner with the consent of the authorized o	orized by an authorized onsite wastewater
Local Health Department Receipt Acknowledgement:	
Signature of Local Health Department Representative:	Date:



OP ID: TOW

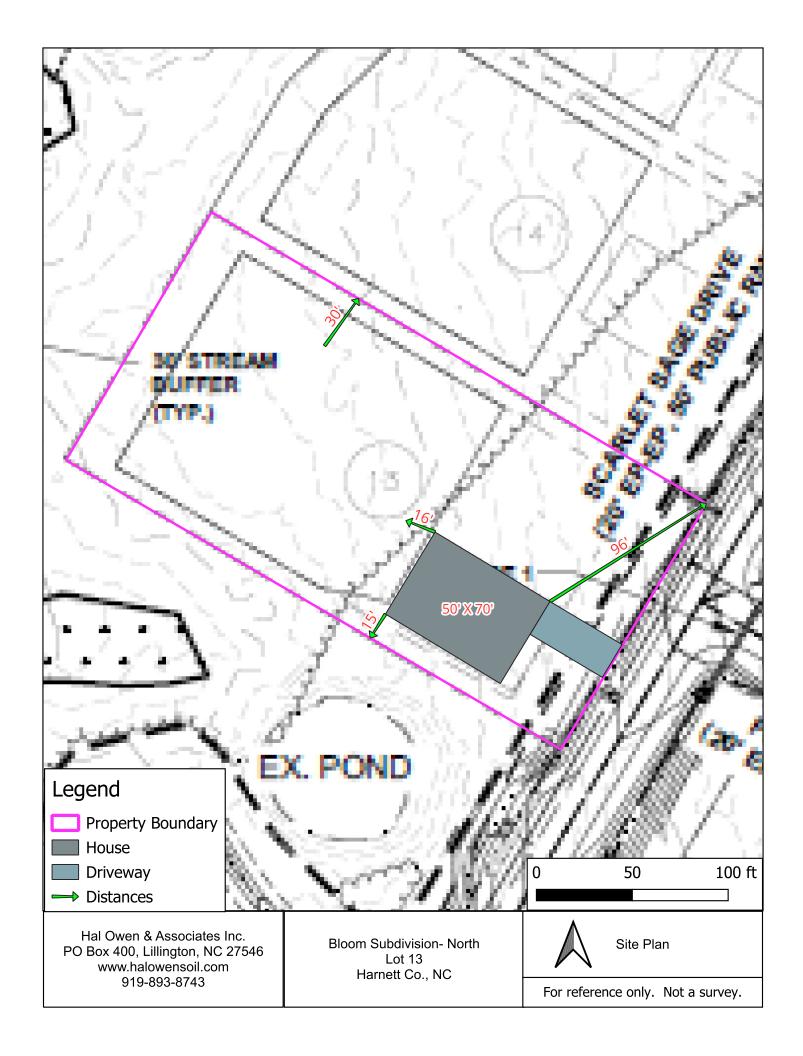


# CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 04/02/2025

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.

lf	IPORTANT: If the certificate holder SUBROGATION IS WAIVED, subject his certificate does not confer rights t	to ti	ne te	rms and conditions of th	e poli	cy, certain p	olicies may			
PRO	DUCER URANCE SERVICE CTR -LILLING	0 1110		D-893-5707	CONTA	CT TAYLOR	TURLING1	TON		
LILL	LINGTON BRANCH OFFICE Box 1565				(A/C, N	910-89 o, Ext):	93-5707 √GTON@IS	FAX (A/C, No):	910-89	3-2077
LILL	INGTON, NC 27546				ADDRE			CFAY.COM		11410 #
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PO I	IRED . OWEN & ASSOCIATES, INC. BOX 400				INSURE					
LILL	INGTON, NC 27546				INSURE	RD:				
					INSURE	ER E :				
					INSUR	RF:				
				E NUMBER:				REVISION NUMBER:		
IN C E	HIS IS TO CERTIFY THAT THE POLICIES IDICATED. NOTWITHSTANDING ANY RE ERTIFICATE MAY BE ISSUED OR MAY XCLUSIONS AND CONDITIONS OF SUCH	QUIF PERT POLI	REME AIN, CIES.	NT, TERM OR CONDITION THE INSURANCE AFFORD LIMITS SHOWN MAY HAVE	OF AN ED BY	Y CONTRACT THE POLICIE REDUCED BY	OR OTHER IS DESCRIBED PAID CLAIMS.	DOCUMENT WITH RESPECT TO HEREIN IS SUBJECT TO	OT TO	WHICH THIS
INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER		POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	<b>i</b>	
	COMMERCIAL GENERAL LIABILITY							EACH OCCURRENCE DAMAGE TO RENTED	\$	
	CLAIMS-MADE OCCUR							PREMISES (Ea occurrence)	\$	
								MED EXP (Any one person)	\$	
	OFAIL ACCORDANT LIMIT APPLIES DED.							PERSONAL & ADV INJURY	\$	
	POLICY PRO- JECT LOC							GENERAL AGGREGATE PRODUCTS - COMP/OP AGG	\$	
	OTHER:							TROBOOTO - GOINII 701 AGC	\$	
	AUTOMOBILE LIABILITY							COMBINED SINGLE LIMIT (Ea accident)	\$	
	ANY AUTO							BODILY INJURY (Per person)	\$	
	OWNED SCHEDULED AUTOS								\$	
	HIRED AUTOS ONLY NON-OWNED AUTOS ONLY							PROPERTY DAMAGE (Per accident)	\$	
									\$	
	UMBRELLA LIAB OCCUR							EACH OCCURRENCE	\$	
	EXCESS LIAB CLAIMS-MADE							AGGREGATE	\$	
	DED RETENTION \$							PER OTH-	\$	
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY  Y/N							STATUTE   ER		
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH)	N/A						E.L. EACH ACCIDENT	\$	
	If yes, describe under							E.L. DISEASE - EA EMPLOYEE  E.L. DISEASE - POLICY LIMIT	\$	
Α	PROFESSIONAL LIAB.			42ESP00143901		01/27/2025	01/27/2026		Ф	1,000,000
								AGGREGATE		2,000,000
DES	CRIPTION OF OPERATIONS / LOCATIONS / VEHIC	LES (A	ACORE	D 101, Additional Remarks Schedu	le, may b	e attached if mo	re space is requii	red)		
CE	RTIFICATE HOLDER				CANO	CELLATION				
<b>→ L</b>	MATTAMY HOMES LLC 11000 REGENCY PARKW CARY, NC 27518	/AY	STE	110	SHC THE ACC	OULD ANY OF	THE ABOVE D N DATE THI ITH THE POLIC	ESCRIBED POLICIES BE CA EREOF, NOTICE WILL E Y PROVISIONS.		
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# **AOWE EVALUATION**

# HOA-AOWE-2504-7

Issue date 6/16/2025
Expiration 6/16/2030

#### **APPLICANT INFORMATION**

Name	Mattamy Homes LLC			
Mailing Address	11000 Regency Parkway, Suite 110, Cary, NC 27518			
E-mail Address	Lawrence.Mcalister@mattamycorp.co	Telephone Number	704-616-6107	

### **PROPERTY IDENTIFIERS**

County	Harnett	PIN	
Size (Acre)		County PID	
Site Address	Scarlet Sage Dr		
S/D Name and Lot#	Bloom Subdivision- North, Lot 13		

#### **PROJECT INFORMATION**

Wastewater System	New		.0403 Eng Low Flow	No
Wastewater Strength	Domestic		Effluent Standard	DSE
Facility Type	Residential		Water Supply	Public Water
Design Wastewater Flow	480 gpd		gal/unit	120
Basis for Flow	4 bedrooms		max occupancy	8
Basement	No		Fixtures in basement?	No
Crawl Space	No		Slab Foundation	Yes

### **CONSULTANT INFORMATION**

Company Name	Hal Owen & Associates, Inc.		
Mailing Address	PO Box 400, Lillington, NC 27546		
E-mail Address	hal@halowensoil.com	Telephone Number	910-893-8743
Licensed Soil Scientist	Britt Wilson, LSS#1351	AOWE	Hal Owen, #10036E

A soil and site evaluation has been conducted for the referenced property for the purpose of permitting a subsurface wastewater system. This evaluation was prepared based on information provided by the applicant to include the basis for design flow, proposed structure location(s), and property boundaries. Any false, inaccurate, or incomplete information provided by the applicant, owner, or legal representatives may result in denial or revocation of applications, approvals, or permits.

This AOWE Evaluation is being submitted pursuant to and meets the requirements of G.S.130A-336.2. This evaluation includes a soil and site evaluation, specifications, plans, and reports for the site layout and construction of a proposed onsite wastewater system by an Authorized On-Site Wastewater Evaluator (AOWE). The evaluation of soil conditions and site features is provided in accordance with G.S. 130A-335(e), the Rules for "Wastewater Treatment and Dispersal Systems", 15A NCAC 18E, and local septic regulations (if any). This report represents my professional opinion as a Licensed Soil Scientist and Authorized Onsite Wastewater Evaluator.









### **WASTEWATER SYSTEM DESIGN SPECIFICATIONS**

# Permit # HOA-AOWE-2504-7

Proposed Design Daily Flow	480	gpd	Drainfield Meeets Req	uirements:
Septic Tank Size (minimum)	1000	gallons	.0508 Available Space	Yes
Pump Tank Size (minimum)	1000	gallons, if required	.0601 Setbacks	Yes

# **Initial System**

System Type	IIb – Accepted	wastewate	er gravity sy	stem		
Pump Required	No			ft TDH at		GPM
Trenches:	Accepted (25%	reduction	) System			
Design LTAR		0.40	gal/day/ft <sup>2</sup>	Sapro	olite System	No
Total Trench/ Bed	d Length	300	feet		Fill System	No
Trench Spacing		9	ft on center	ſ		
Usable soil depth to LC		37	inches			
Maximum Trench Depth 23		23	inches, me	asured on downhil	I side of tren	ch
Minimum Soil Co	ver	6	inches			
Artificial Drainage	e Required	No				

## **Repair System**

System Type:	IIb – Accepted	wastewate	er gravity system		
Pump Required	No				
Trenches:	Accepted (25%	reduction			
Design LTAR		0.40	gal/day/ft²	Saprolite System	No
Total Trench/ Bed	d Length	300	feet	Fill System	No
Trench Spacing 9		9	ft on center		
Usable soil depth to LC 37		inches			
Maximum Trench Depth of 23		inches, measured on downhill side of trench			
Minimum Soil Co	ver	6	inches		

Potential Drainlines flagged at site on 9-ft centers.

1 Sterman Braining hagged at the tire of the content.						
		Relative	Drainline	Field		
Line #	Color	Elevation (ft)	Length(ft)	Length(ft)		
1	W	94.06	100	160	Ι ٦	æ
2	В	93.64	100	168	├	Initial
3	Υ	93.05	100	173		=
4	R	92.53	100	180		.=
5	W	92.13	100	202		Repair
6	В	91.64	100	160		æ
Septic 1	Tank:	94.90			-	
Reference	e Elev:	100.00	Notes:			

<sup>\*</sup>No grading or removal of soil in initial or repair areas

<sup>\*</sup>Property lines per owner

<sup>\*</sup>Trench bottoms shall be level to +/- 1/4" in 10ft

<sup>\*</sup>All parts of septic system must meet minimum setbacks

### # HOA-AOWE-2504-7

### **PERMIT CONDITIONS**

The requirements of 15A NCAC 18E are incorporated by reference into this permit and shall be met.

System shall be installed in accordance with the attached Wastewater System Design Specificaitons. See attached SYSTEM LAYOUT for wastewater system design and location.

Any changes to the site plan or intended use must be approved by Hal Owen & Associates. Permit modification and resubmittal to the LHD may be necessary to ensure regulatory compliance.

Conformance to ALL regulatory setbacks shall be maintained. Local regulations (such as County, well, or riparian ordinances) may require more stringent setbacks than specified in the State septic regulations.

Minimum soil cover of six inches shall be established over dispersal field. Soil cover above the original grade shall be placed at a uniform depth over the entire dispersal field and shall extend laterally five feet beyond the dispersal trench. Site shall be graded to shed water away from field and a vegetative cover established to prevent erosion.

The dispersal field and repair area shall not be subject to vehicular traffic. Vehicular traffic can damage soils, pipes, and valve boxes. Do not use septic areas for parking.

Do not allow underground utilities, water lines, or sprinkler systems to be installed in the septic areas. Damage to the septic areas could result in the septic permit being revoked.

The wastewater system shall not be covered until inspected by Hal Owen & Associates and shall not be placed into use until an Authorization to Operate is issued.

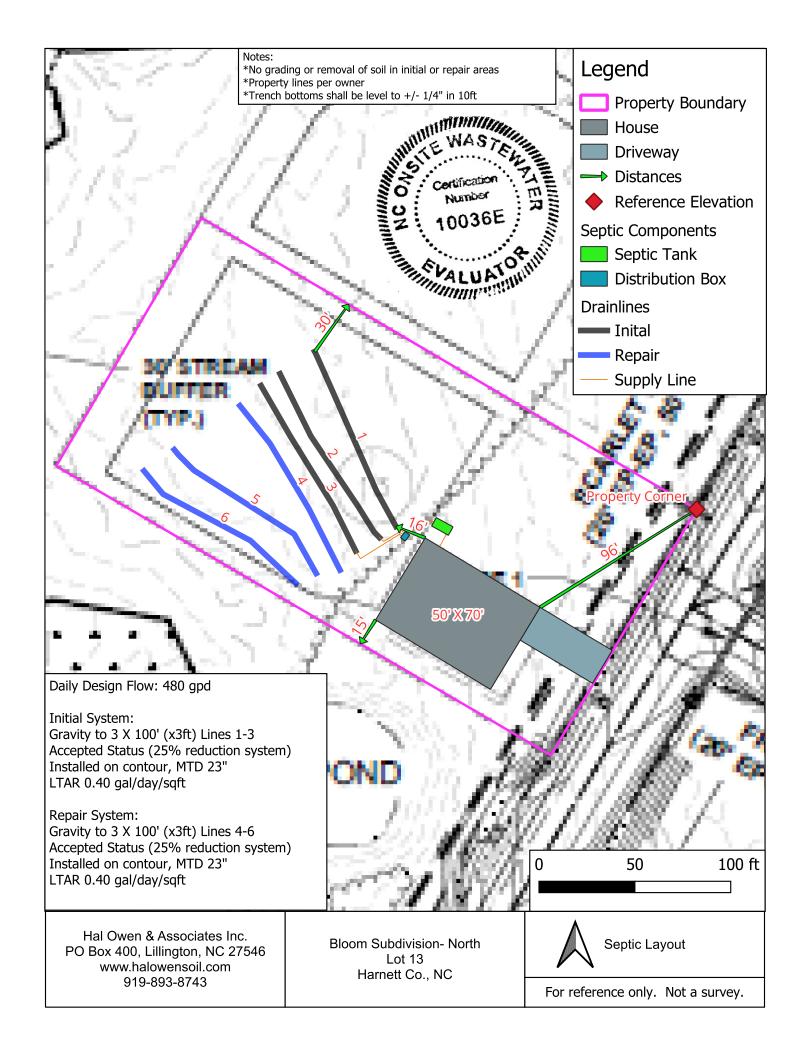
#### SPECIFIC REQUIREMENTS

A pre-construction conference with the septic contractor is required prior to installation. Call Hal Owen & Associates at least five days in advance to schedule 910-893-8743

The inlet and outlet of all tanks shall be equipped with an approved pipe penetration boot.

A pump tank should be added if gravity distribution cannot be demonstrated.

Gutter drains must be diverted away from the drainfield.



#### **INITIAL WASTEWATER SYSTEM**

Permit # HOA-AOWE-2504-7

### **Gravity System Design Criteria**

**DESIGN DAILY FLOW** 480 gallons **SOIL LTAR:** 0.40 gpd/ft<sup>2</sup> TANK (minimum) Septic Tank: 1000 gallons **SUPPLY LINE** Length (ft): \_\_\_\_14 \_\_\_ Diameter: \_\_\_\_3 \_\_\_ " sch 40 pvc slope = 1.12% \* minimum slope of supply line is 1/8" per foot (%1.04)**TRENCHES** Drainline Type: Accepted (25% reduction) System Maximum Trench Depth of 23 inches, measured on downhill side Trench height: 12 inches Trench width: 3 Trench Length Factor: \_\_\_\_\_75 % Effective Trench Width: 4 Absorption Area: 900 ft<sup>2</sup> Minimum Linear Length: 300 ft Actual Trench Length: 3 Χ 300 100 ft

Gravity Distri	ibution Schematic			
Septic Tank Ground	Tank Outlet*	D-Box	<i>Trench</i> Ground	
Elev (ft)= 94.90 ft	Depth (in) = 18 Elev (ft)= 93.40	Elev (ft)= 93.24	Elev (ft)= 94.06	
PAET ON PRESENT OF THE PRESENT OF TH	NOTIFICIAL DISTRICT OF THE STATE OF THE STAT	D-box	Trench	Trench Bottom
	Supply 1		Drainline	Elev (ft)= 92.14
PRECAST CON- (MATERIAL ST	CRETE TANK RIPARTH > 3500 PSI)		drawing N	N.T.S.

<sup>\*</sup>Outlet depth of septic tank is dependant upon the depth of the plumbing stub out from the home. A pump tank should be added if gravity distribution cannot be demonstrated.

#### **REPAIR AREA**

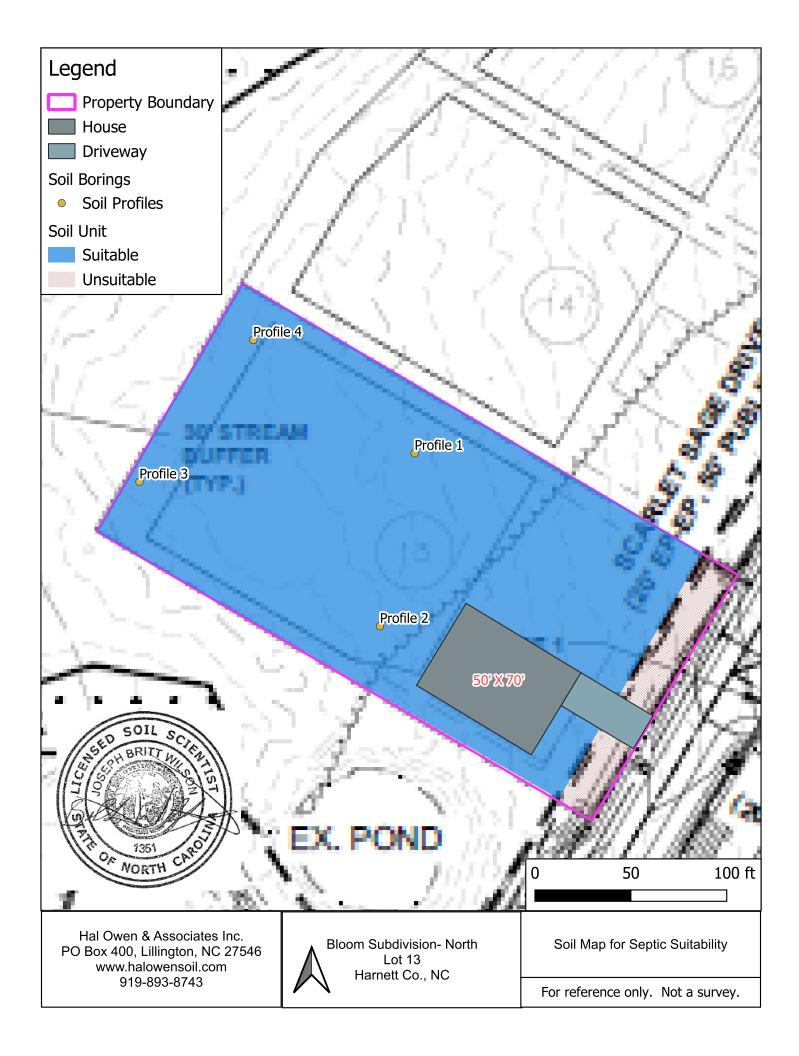
## Permit # HOA-AOWE-2504-7

# **Gravity System Design Criteria**

**SOIL LTAR:** 0.40 gpd/ft<sup>2</sup> **DESIGN DAILY FLOW** 480 gallons Septic Tank: 1000 gallons TANK (min) **SUPPLY LINE** Length (ft): 55 Diameter: 3 "sch 40 pvc slope = 3.07% \*minimum slope of supply line is 1/8" per foot (%1.04) Drainline Type: Accepted (25% reduction) System **TRENCHES** Maximum Trench Depth of 23 inches, measured on downhill side Trench width: Trench height: 12 inches Trench Length Factor: 75 % Effective Trench Width: ft<sup>2</sup> Absorption Area: Minimum Linear Length: 900 300 Actual Trench Length: 3 100 ft 300 Χ ft

Gravity Distri	bution Schematic			
Septic Tank Ground	Tank Outlet*	D-Box	<i>Trench</i> Ground	
Elev (ft)= 94.90 ft	Depth (in) =18 Elev (ft)=93.40	Elev (ft)= 91.71	Elev (ft)= 92.53	= 
COMPACT FORM  TIMET  FORM OFFER  WHITE THE PROPERTY OF THE PRO	ACTION CONTROL OF THE PROPERTY	D-box	Trench	Trench Bottom Elev (ft)=
PRECAST CONS OWNTRIAL STO	DEFECTANK PACIFIC > 2000 PSI)		Drainline	90.61
			drawing I	N.T.S.

<sup>\*</sup>Outlet depth of septic tank is dependant upon the depth of the plumbing stub out from the home. A pump tank should be added if gravity distribution cannot be demonstrated.



# **AOWE EVALUATION**

## SOIL/SITE EVALUATION FORM FOR ON-SITE WASTEWATER SYSTEM

OWNER NAME:	Mattamy Homes LLC			
PROPOSED FACILITY:	Residential	DESIGN DAILY FLOW:	: 480	WATER SUPPLY Public Water
LOCATION OF SITE:	Scarlet Sage Dr		PIN:	0
WASTEWATER TYPE:	Domestic		COUNTY:	Harnett
EVALUATION METHOD	: AUGER BORING	PIT	-	сит 🗔
EVALUATED BY:	Britt Wilson, LSS#1351		_ DA	ATE EVALUATED: 4/8/25
	INITIAL SYST	EM		REPAIR SYSTEM
AVAILABLE SPACE	900 ft <sup>2</sup> trench bot	tom	900	ft <sup>2</sup> trench bottom
SYSTEM TYPE	Accepted (25% r	eduction) System	Acce	pted (25% reduction) System
SITE LTAR	0.40 gpd/ft <sup>2</sup>		0.40	gpd/ft <sup>2</sup>
MAX TRENCH DEPTH	23 inches (meas	ured on downhill side)	23	inches (measured on downhill side
SITE CLASSIFICATION	Suitable	OTHE	R FACTORS	
				·

COMMENTS:

## **PROFILE 1**

HORIZON	COLOR	CONSIS	TEXTURE	STRUCTURE	MINERA	OTHER PROFILE FACTORS	
DEPTH		TENCE			LOGY		
0-4	10YR 4/2	VFR	LS	GR	SEXP	LANDSCAPE POSITION	L
4-7	10YR 5/3	VFR	LS	GR	SEXP	SOIL WETNESS DEPTH	>48"
7-19	10YR 6/4	VFR	LS	GR	SEXP	SOIL WETNESS COLOR	
19-48+	10YR 6/6	FR	SCL	SBK	SEXP	SOIL DEPTH	48"
						SAPROLITE CLASS	NA
						RESTRICTIVE HORIZON	NA
						SLOPE %	6
PROFILE CLASSIFICATION		ION	Suitable	LTAR gpd/ft <sup>2</sup>	0.55	SLOPE CORRECTION (IN)	2.2
COMMENT	COMMENT						

### **PROFILE 2**

HORIZON	COLOR	CONSIS	TEXTURE	STRUCTURE	MINERA	OTHER PROFILE FACTORS	
DEPTH		TENCE			LOGY		
0-3	10YR 4/2	VFR	LS	GR	SEXP	LANDSCAPE POSITION	L
3-9	10YR 5/3	VFR	LS	GR	SEXP	SOIL WETNESS DEPTH	39"
9-17	10YR 6/4	VFR	LS	GR	SEXP	SOIL WETNESS COLOR	10YR 7/2
17-22	10YR 5/6	FR	SCL	SBK	SEXP	SOIL DEPTH	48"
22-48+	10YR 6/6	FR	SCL	SBK	SEXP	SAPROLITE CLASS	NA
						RESTRICTIVE HORIZON	NA
						SLOPE %	6
PROFILE CLASSIFICATION		Suitable	LTAR gpd/ft <sup>2</sup>	0.45	SLOPE CORRECTION (IN)	2.2	
COMMENT		·					

## PROFILE 3

HORIZON	COLOR	CONSIS	TEXTURE	STRUCTURE	MINERA	OTHER PROFILE FACTORS	
DEPTH		TENCE			LOGY		
0-6	10YR 4/2	VFR	LS	GR	SEXP	LANDSCAPE POSITION	L
6-14	10YR 5/3	VFR	LS	GR	SEXP	SOIL WETNESS DEPTH	45"
14-30	2.5Y 6/3	VFR	LS	GR	SEXP	SOIL WETNESS COLOR	10YR 7/2
30-40	10YR 6/6	FR	SCL	SBK	SEXP	SOIL DEPTH	48"
40-48+	10YR 6/8	FR	SCL	SBK	SEXP	SAPROLITE CLASS	NA
						RESTRICTIVE HORIZON	NA
						SLOPE %	6
PROFILE CLASSIFICATION			Suitable	LTAR gpd/ft <sup>2</sup>	0.45	SLOPE CORRECTION (IN)	2.2
COMMENT							

#### **PROFILE 4**

PROFILE 4							
HORIZON	COLOR	CONSIS	TEXTURE	STRUCTURE	MINERA	OTHER PROFILE FACTORS	
DEPTH		TENCE			LOGY		
0-4	10YR 4/2	VFR	LS	GR	SEXP	LANDSCAPE POSITION	L
4-8	10YR 5/3	VFR	LS	GR	SEXP	SOIL WETNESS DEPTH	37"
8-22	12.5Y 6/3	VFR	LS	GR	SEXP	SOIL WETNESS COLOR	10YR 7/2
22-37	10YR 6/6	FI	SCL	SBK	SEXP	SOIL DEPTH	48"
37-48+	10YR 6/6	FI	SC	SBK	SEXP	SAPROLITE CLASS	NA
						RESTRICTIVE HORIZON	NA
						SLOPE %	6
PROFILE CLASSIFICATION		ION	Suitable	LTAR gpd/ft <sup>2</sup>	0.4	SLOPE CORRECTION (IN)	2.2
COMMENT							

### **AOWE EVALUATION**

## **TERMS AND CONDITIONS**

This AOWE Evaluation is intended to file a Notice of Intent to construct a wastewater system with the Local Health Department and shall expire in five years. This evaluation is not a permit to develop. The owner and subcontractors will need to abide by all state and local rules and regulations pertaining to planning, zoning, and land use development.

Notice of Intent to Construct – Prior to commencing or assisting in the construction, siting, relocation, or repair of a wastewater system, a complete Notice of Intent (NOI) to Construct a wastewater system using an AOWE must be submitted to the Local Health Department (LHD). The owner may apply for a building permit for the project upon submitting a complete NOI and the required fee.

<u>Plan Alterations</u> – If there are any changes in the site plan that can impact the wastewater system, such as moving the house or driveway, site alterations, or if the applicant chooses to change the design daily flow prior to wastewater system construction, a new NOI shall be submitted to the LHD. The applicant shall request in writing that the PE or AOWE invalidate the prior NOI with a signed and sealed letter sent to the applicant and LHD.

<u>Site Alterations</u> – The applicant shall be responsible for preventing modifications or alterations of the site for the wastewater system and the system repair area before, during, and after any construction activities for the facility, unless approved by the AOWE.

On-Site Wastewater System Contractor – The AOWE shall assist the owner in the selection of a certified on-site wastewater system contractor who shall be under contractual obligation to the owner and have sufficient errors and omissions, liability, or other insurance for the system constructed.

<u>Inspections, Construction Observations, and Reports</u> – The AOWE shall make periodic visits to the site to observe the progress and quality of the construction of the wastewater system.

<u>Authorization to Operate (ATO)</u> – Upon determining that the wastewater system has been properly installed and is capable of being operated in accordance with the conditions of the permit, the AOWE shall provide the owner with a report that includes inspection reports, a written operation and management program, any special reports, and an Authorization to Operate. The owner shall sign confirming acceptance and receipt of the report, and then provide a copy to the LHD who will issue the certificate of occupancy for the facility.

Operation and Management – The owner shall be responsible for continued adherence to the operations and management program established by the AOWE. This permit shall in no way be taken as a guarantee or implied warranty that the septic system will function satisfactorily for any given period of time.

<u>Change in System Ownership</u> – An authorized wastewater system shall be transferrable to a new owner with the consent of the AOWE. The new owner and the AOWE shall enter a contract for the wastewater system.

<u>Revocation</u> – The AOWE permit is subject to revocation if the site plan, plat, or the intended use changes. This permit is subject to compliance with the provisions of the laws and Rules for Wastewater Treatment and Dispersal Systems and to the conditions of this permit.

Repair of Malfunctioning Systems – The owner may apply for an Improvement Permit and a Construction Authorization from the LHD or obtain a NOI from an AOWE to repair a malfunctioning wastewater system.