



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

☒ New ☐ Expansion ☐ Repair ☐ Relocation ☐ Relocation of Repair Area

Owner or Legal Representative Information:

Name: JSJ Builders, Inc.

Mailing address: 1135 Robeson St. City: Fayetteville State: NC Zip: 28305

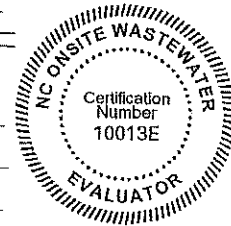
Phone: 910-438-0796 Email: Kevinshortridge@gmail.com

Authorized Onsite Wastewater Evaluator Information:

Name: Mike Eaker Certification #: 10013E

Mailing address: PO Box 9321 City: Fayetteville State: NC Zip: 28311

Phone: 910-822-4540 Email: Mike@southeasternsoil.com



Site Location Information:

Site address: 398 Hookbill Lane, Lillington, NC 27546

Tax parcel identification number or subdivision lot, block number of property: 0527-51-3952.000

Ducks Landing, Lot 73 County: Harnett

System Information:

Wastewater System Type: Pump to Accepted (25% reduction)

Daily Design Flow: 480 gpd

Saprolite System: ☐ Yes ☒ No Subsurface Operator Required: ☐ Yes ☒ No

Water Supply Type: ☒ Private Well ☐ Public Water Supply ☐ Spring ☐ Other: \_\_\_\_\_

Facility Type:

☒ Residential 4 # Bedrooms 6 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  
☒ Evaluation of Soil and Site Features by Licensed Soil Scientist

Attest: On this the 17 day of June, 2025 by signature below I hereby attest that the information required to be included with this NOI to Construct is accurate and complete to the best of my knowledge. Furthermore, I hereby attest that I have adhered to the laws and rules governing onsite wastewater systems in the state of North Carolina. This NOI shall expire on 17 day of June, 2030.

Signature of Authorized Onsite Wastewater Evaluator: Mike Eaker

Signature of Owner or Legal Representative: Kevin Shortridge

Disclosure: The owner may apply for a building permit for the project upon submitting a complete NOI to Construct and the fee required (if any) to the local health department. An onsite wastewater system authorized by an authorized onsite wastewater evaluator shall be transferable to a new owner with the consent of the authorized onsite wastewater evaluator.

Local Health Department Receipt Acknowledgement:

Signature of Local Health Department Representative: \_\_\_\_\_ Date: \_\_\_\_\_

# Southeastern Soil & Environmental Associates, Inc.

P.O. Box 9321  
Fayetteville, NC 28311  
Phone/Fax (910) 822-4540  
Email mike@southeasternsoil.com

June 17, 2025

Mr. Kevin Shortridge  
JSJ Builders, Inc.  
1135 Robeson St.  
Fayetteville, NC 28305

Re: Soil/site evaluation for subsurface waste disposal (GS 130A-336.2) AOWE, Ducks Landing, Lot 73, PIN 0527-51-3952.000, 398 Hookbill Lane, Lillington, Harnett County, North Carolina

Dear Mr. Shortridge,

A soil/site evaluation has been conducted on the aforementioned property at your request. The purpose of the investigation was to determine if soils were suitable or provisionally suitable for a subsurface waste disposal system (conventional, accepted and innovative) to serve a proposed single-family residence (4-bedroom home). All ratings and determinations were made in accordance with "Onsite Wastewater Rules, 15A NCAC 18E". **This LSS evaluation is being submitted to meet the requirements of GS 130A-336.2 (AOWE).**

The soil evaluation was completed on June 12, 2025. Hand auger borings were advanced under moist soil conditions. The site essentially lies on a linear slope landscape (2 - 5% slope). Soil borings conducted in most of this area consisted of 17 or more inches of loamy sand underlain by sandy loam and/or sandy clay loam to 48 or more inches below the soil surface. Soil wetness and/or parent material (greater than 50%) was not observed shallower than 41 inches below the soil surface (initial system) and 36 inches (repair system). All other soil characteristics were suitable to at least 48 inches.

Based on soil borings and site conditions, the site would be designated suitable for a pump to a shallow accepted subsurface waste disposal drainfield (0.40 gal/day/ft<sup>2</sup> LTAR; initial system). There is enough suitable soil area to allow for a pump to an accepted subsurface septic system repair (0.40 gal/day/ft<sup>2</sup>). A map showing the approximate location of the site and proposed septic layout accompanies this report. **[Note: No grading, rutting or other soil disturbance can occur in or near the proposed septic area. Any grading can alter the findings of this report and render the site unusable. As such, we recommend the builder protect the proposed septic areas with rope, flagging, fencing, etc.]**

### Design Summary

- Pump to Accepted product (300', see septic layout)
- 480 gal/day flow rate (3BR)
- 24" maximum trench depth
- 0.40 gpd/ft<sup>2</sup> LTAR (initial and repair)
- 1000-gallon septic and pump tank (certified watertight)
- Pump to produce 21.33 gal/min @ 13.70 feet TDH
- Pump dose 137 gallons (6.8-inch drawdown)
- No grading, rutting or filling in septic areas
- No vertical cuts (greater than 2') within 15' of septic lines/areas
- Keep tanks and drainlines 10' from property lines
- Keep supply line 5 or more feet from property lines
- **Install in dry soil conditions**
- Maintain natural contours when clearing the lots
- Direct gutter water away from septic system
- **AOWE must preapprove Licensed installer**
- **Preconstruction conference required 2 weeks prior to installation of septic**
- **Contractor to provide 2 week's notice prior to installation**

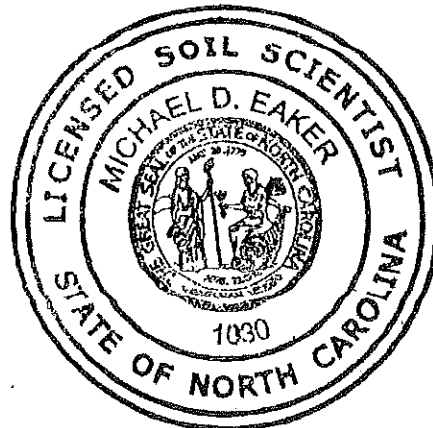
During site construction, it is important not to impact and suitable or provisionally suitable soil areas with activities such as excavation or filling. Only the vegetation should be removed in the areas of the proposed septic drainfields to prevent any disturbance of naturally occurring soil. We recommend all lot clearing activity be delayed until the local health department issues a permit.

To the extent possible, we have identified the soil types that will impact the flow of wastewater on this site and have provided a professional opinion as to the best septic system layout. This report does not guarantee that the proposed septic system will properly function for any specific length of time.

Sincerely,



Mike Eaker  
NC Licensed Soil Scientist # 1030  
NC Authorized Wastewater Evaluator 10013E



SOUTHEASTERN SOIL & ENVIRONMENTAL ASSOC., INC.

PROPOSED SUBSURFACE WASTE DISPOSAL SYSTEM DETAIL SHEET

**SUBDIVISION:** Ducks Landing

**LOT** 73

**INITIAL SYSTEM:** Accepted 25% Reduction

**REPAIR:** Accepted 25% Reduction

**DISTRIBUTION:** Pump to Serial

**DISTRIBUTION** Pump to Serial

**BENCHMARK:** 100.0

**LOCATION** Top Water Meter

**NO. BEDROOMS:** 4

**LTAR** 0.40 gpd/ft2

**SEPTIC TANK SIZE** 1000 Gallons

**PUMP TANK SIZE** 1000 Gallons

	<u>LINE</u>	<u>FLAG COLOR</u>	<u>ELEVATION</u>	<u>LENGTH</u>
Initial	1	W	104.60	90'
	2	B	104.50	95'
	3	L	104.10	115'
				TOTAL 300'
Repair	4	W	103.50	145'
	5	B	102.60	145'
	6	L	101.70	50'
				TOTAL 340'

**BY** Mike Eaker

**DATE** 6/12/25

**TYPICAL PROFILE**

**THERE SHALL BE NO GRADING,  
CUTTING, LOGGING OR OTHER SOIL  
DISTURBANCE IN SEPTIC AREA**

HEALTH DEPARTMENT USE ONLY.

DESIGNS DO NOT GURANTEE FUNCTIONALITY

Initial

0-22	LS/SL	VFr/Fr/Gr
22-48	SCL	Fi/SBk
CR2	41"	

Repair

0-17	LS/SL	VFr/Fr/Gr
17-48	SCL	Fi/SBk
CR2	36"	



# VICINITY MAP (NIS)

## LEGEND:

EIP - EXISTING IRON PIPE  
 EIB - EXISTING IRON BAR  
 DEIP - BENT IRON PIPE  
 DEIB - BENT IRON BAR  
 CM - CONCRETE MONUMENT  
 NIP - NEW IRON PIPE SET  
 CATV - CABLE TV BOX  
 EB - ELECTRIC BOX  
 TEL - TELEPHONE PEDESTAL  
 PP - POWER POLE  
 OHL - OVERHEAD LINE  
 LP - LIGHT POLE  
 VM - WATER METER  
 WV - WATER VALVE  
 CO - SEWER CLEAN-OUT  
 SW - SIDEWALK  
 PO - PORCH  
 N/F - NOW OR FORMERLY  
 CVRD - COVERED  
 CB - CATCH BASIN  
 EOP - EDGE OF PAVEMENT  
 BOC - BACK OF CURB

5. THIS PARCEL IS NOT LOCATED WITHIN A FLOOD HAZARD ZONE AS INDICATED ON CID NO. 370328 PANEL 0526, SUFFIX J, HARNETT COUNTY WITH AN EFFECTIVE DATE OF 10/03/2025.

APPLICABLE LAND DEVELOPMENT REGULATIONS AND HAS NOT BEEN REVIEWED FOR COMPLIANCE WITH RECORDING REQUIREMENTS FOR PLATS.

## IMPERVIOUS SURFACE TABLE

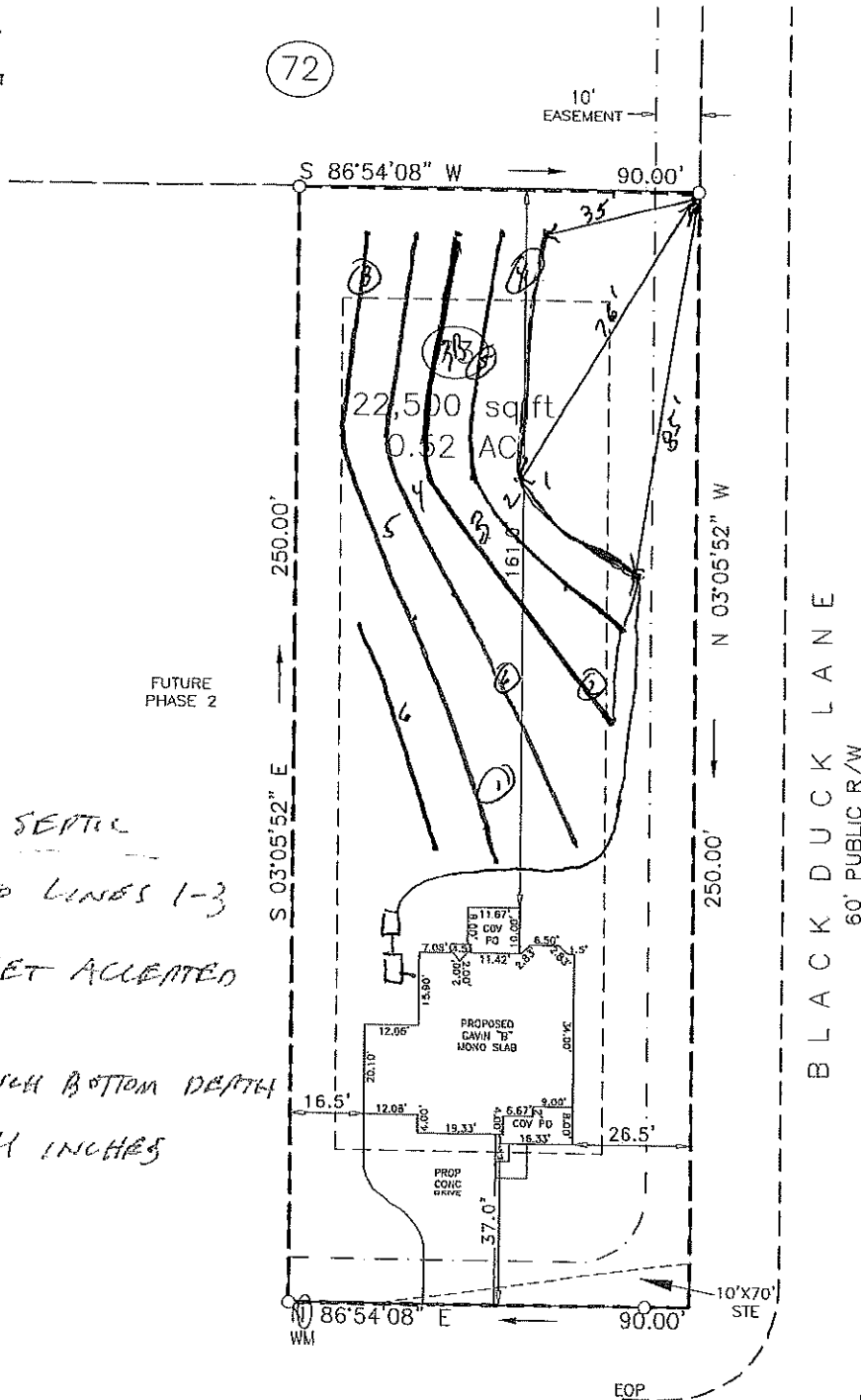
HOUSE	1,816 S.F.
DRIVEWAY	906 S.F.
SIDEWALKS	44 S.F.
TOTAL IMPERVIOUS AREA	2,766 S.F.

## SETBACKS:

P.B. 2025, PG. 268	
FRONT	35'
SIDE	10'
REAR	25'
SIDE STREET	20'



ADOPTED FROM P.B. 2025, PG. 268



INITIAL SEPTIC

PUMP TO LINES 1-3

300 FEET ACCEPTED

MAX TRENCH BOTTOM DEPTH

24 INCHES

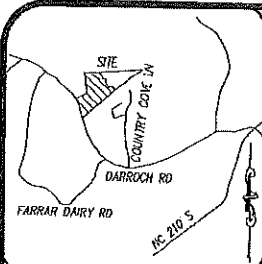


HOOKBILL LANE  
 60' PUBLIC R/W

PRELIMINARY



Ducks Landing  
 LOT 73



VICINITY MAP (NTS)

LEGEND:

- EP - EXISTING IRON PIPE
- UB - EXISTING IRON BAR
- EBP - EXISTING IRON PIPE
- UBP - EXISTING IRON BAR
- CM - CONCRETE MONUMENT
- NP - NEW IRON PIPE SET
- CB - CABLE TV BOX
- DB - ELECTRIC BOX
- TEL - TELEPHONE PEDestal
- PP - POWER POLE
- LP - LIGHT POLE
- OW - OVERHEAD LINE
- WM - WATER METER
- WV - WATER VALVE
- CS - SEWER CLEAN-OUT
- SP - SIDEWALK
- PD - POUGH
- N/F - NOW OR FORMERLY
- CD - COVERED
- CB - CATCH BASIN
- EDP - EDGE OF PAVEMENT
- 90C - BACK OF CURB

NOTES:

1. ALL DISTANCES ARE HORIZONTAL GROUND DISTANCES IN U.S. SURVEY FEET UNLESS OTHERWISE NOTED.
2. AREAS SHOWN HEREON WERE COMPUTED USING THE COORDINATE METHOD.
3. LINES NOT SURVEYED ARE SHOWN AS DASHED LINES FROM INFORMATION REFERENCED ON THE FACE OF THIS PLAT.
4. PROPERTY MAY BE SUBJECT TO ANY/ALL EASEMENTS AND RESTRICTIONS OF RECORD. THIS SURVEY IS A CORRECT REPRESENTATION OF THE LAND PLATTED AND OR DEEDED AND HAS BEEN PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT. A NORTH CAROLINA LICENSED ATTORNEY-AT-LAW SHOULD BE CONSULTED REGARDING CORRECT OWNERSHIP, WIDTH AND LOCATION OF EASEMENTS, AND OTHER TITLE QUESTIONS REVEALED BY TITLE EXAMINATION.
5. THIS PARCEL IS NOT LOCATED WITHIN A FLOOD HAZARD ZONE AS INDICATED ON CID NO. 370328 PANEL 0526, SUFFIX 0, HARNETT COUNTY WITH AN EFFECTIVE DATE OF 10/03/2025.

CERTIFICATE OF ACCURACY & MAPPING

I, NICHOLAS M. FRENCH, PLS, CERTIFY THAT THIS MAP WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL FIELD SURVEY DONE UNDER MY SUPERVISION, AND THAT THE ERROR OF CLOSURE AS COMPUTED BY CO-ORDINATES IS LESS THAN 1:10,000.

PRELIMINARY

NICHOLAS M. FRENCH, PLS L-4817 DATE

THIS MAP IS ONLY INTENDED FOR THE PARTIES AND PURPOSES SHOWN. THIS MAP IS NOT FOR RECORDATION. NO TITLE REPORT PROVIDED. ANY VISIBLE ENCROACHMENTS ARE SHOWN HEREON.

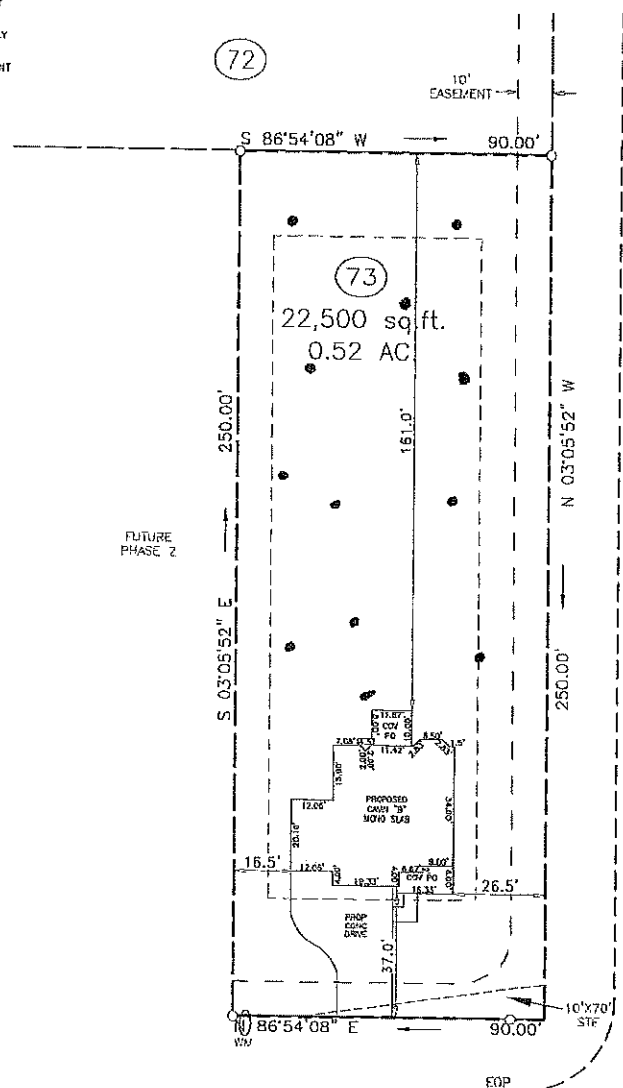
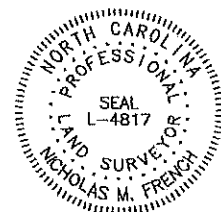
THIS MAP MAY NOT BE A CERTIFIED SURVEY AND HAS NOT BEEN REVIEWED BY LOCAL GOVERNMENT AGENCY FOR COMPLIANCE WITH ANY APPLICABLE LAND DEVELOPMENT REGULATIONS AND HAS NOT BEEN REVIEWED FOR COMPLIANCE WITH RECORDING REQUIREMENTS FOR PLATS.

IMPERVIOUS SURFACE TABLE

HOUSE	1,816 S.F.
DRIVEWAY	908 S.F.
SIDEWALKS	44 S.F.
TOTAL IMPERVIOUS AREA	2,768 S.F.

SETBACKS:

P.B. 2025, PG. 268	
FRONT	35'
SIDE	10'
REAR	25'
SIDE STREET	20'



GRAPHIC SCALE

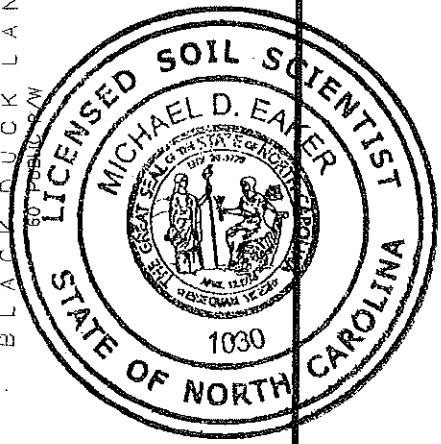


1 INCH = 40 FT.

HOOKBILL LANE  
60' PUBLIC R/W

[Symbol] = SUITABLE SOIL

PRELIMINARY



STCS	PROJECT: DUCKS LANDING
	DRAWN BY: VIK
	SURVEYED BY:
	FIELD WORK:
	DWG DATE: 05-16-2026

LOT PLAN  
FOR  
JSJ BUILDERS  
HOOKBILL LANE  
LOT 73 DUCKS LANDING SUBDIVISION  
ANDERSON BREEK TWP., HARNETT CO., NC  
P.B. 2025, PG. 268

**ECLS**  
GLOBAL, INC.  
U.S. VETERAN-OWNED  
19 N. MCKINLEY ST.  
DILLS, NC 27521  
910.897.3257 ECLS@GLOBALINC.COM  
910.897.2329 (FAX) 000-4175

### SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

(Complete all fields in full)

OWNER: JSJ Builders, Inc.

ADDRESS: 1135 Robeson St., Fayetteville, NC 28305

DATE EVALUATED: 6/12/25

PROPOSED FACILITY: SFD

PROPOSED DESIGN FLOW (.0400): 480 GPD

PROPERTY SIZE: 0.52 ac

LOCATION OF SITE: 398 Hookbill Lane, Lillington, NC 27546

PROPERTY RECORDED:

WATER SUPPLY: ☒ Public ☐ Single Family Well ☐ Shared Well ☐ Spring ☐ Other

WATER SUPPLY SETBACK: N/A: No Sett

EVALUATION METHOD: ☒ Auger Boring ☐ Pit ☐ Cut

TYPE OF WASTEWATER: ☒ Domestic ☐ High Strength ☐ IPWW

P R O F I L E #	.0502 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY		OTHER PROFILE FACTORS				.0509 PROFILE CLASS & LTAR*	.0502(d) SLOPE CORRE CTION
			.0503 STRUCTURE/ TEXTURE	.0503 CONSISTENCE/ MINERALOGY	.0504 SOIL WETNESS/ COLOR	.0505 SOIL DEPTH	.0506 SAPRO CLASS	.0507 RESTR HORIZ		
1	LS 2-5%	0-8	LS/GR	VFR/NEXP	36"	NA	NA	NA	Suitable 0.40	
		8-17	LS/GR	VFR/NEXP	10YR 7/3					
		17-36	SCL/MM SBK	FR/SEXP	10YR 6/8					
		36-48	SCL/WF SBK	FR/SEXP	10YR 6/8 10YR 7/1 molt					
2	LS 2-5%	0-3	LS/GR	VFR/NEXP	41"	NA	NA	NA	Suitable 0.40	
		3-22	LS/GR	VFR/NEXP	10YR 6/4					
		22-41	SCL/MM SBK	FR/SEXP	10YR 6/8					
		41-48	SCL/WF SBK	FR/SEXP	10YR 6/8 10YR 7/1 molt					
3	LS 2-5%	0-9	LS/GR	VFR/NEXP	37"	NA	NA	NA	Suitable 0.40	
		9-16	LS/GR	VFR/NEXP	10YR 6/4					
		16-37	SCL/MM SBK	FR/SEXP	10YR 6/8					
		37-48	SCL/WF SBK	FR/SEXP	10YR 6/8 10YR 7/1 molt					
4	LS 2-5%	0-4	LS/GR	VFR/NEXP	41"	NA	NA	NA	Suitable 0.40	
		4-28	LS/GR	VFR/NEXP	10YR 6/4					
		28-41	SCL/MM SBK	FR/SEXP	10YR 6/8					
		41-48	SCL/WF SBK	FR/SEXP	10YR 6/8 10YR 7/1 molt					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM	SITE CLASSIFICATION (.0509): <u>Suitable</u> EVALUATED BY: M. Eaker OTHER(S) PRESENT: <u>D. Eaker</u>
Available Space (.0508)	YES	YES	
System Type(s)	Pump to Accepted	Pump to Accepted	
Site LTAR	0.40 gpd/ft2	0.40 gpd/ft2	
Maximum Trench Depth	24"	20"	
Comments:			

(Continuation Sheet-Complete all field in full)

DEPARTMENT OF HEALTH AND HUMAN SERVICES  
DIVISION OF PUBLIC HEALTH  
ENVIRONMENTAL HEALTH SECTION  
ON-SITE WATER PROTECTION BRANCH

PROPERTY ID #: Ducks Landing Lot 73  
DATE OF EVALUATION: 6/12/25  
COUNTY: Harnell

COMMENTS:





Travelers 1st Choice+®

**DESIGN PROFESSIONALS LIABILITY COVERAGE  
DECLARATIONS**

POLICY NO. 108040737

Travelers Casualty and Surety Company of America  
Hartford, Connecticut  
(A Stock Insurance Company, herein called the Company)

**Important note: This is a claims-made policy. To be covered, a claim must be first made against an insured during the policy period or any applicable extended reporting period.**

This policy is composed of the Declarations, the Professional Liability Coverage, the Professional Liability Terms and Conditions, and any endorsements attached thereto.

ITEM 1	<b>NAMED INSURED:</b> SOUTHEASTERN SOIL AND ENVIRONMENTAL ASSOCIATES  DBA:  Principal Address: PO BOX 9321 FAYETTEVILLE, NC 28311-9084
ITEM 2	<b>POLICY PERIOD:</b> Inception Date: May 1, 2025      Expiration Date: May 1, 2026 12:01 A.M. standard time both dates at the Principal Address stated in ITEM 1.
ITEM 3	ALL NOTICES PURSUANT TO THE POLICY MUST BE SENT TO THE COMPANY BY EMAIL, FACSIMILE, OR MAIL AS SET FORTH BELOW:  Email: BSIclaims@travelers.com Fax: 1-888-460-6622  Mail: Travelers Bond & Specialty Insurance Claim P.O. Box 2989 Hartford, CT 06104-2989  Overnight Mail: Travelers Bond & Specialty Insurance Claim One Tower Square, MN06 Hartford, CT 06183  For questions related to claim reporting or handling, please call 1-800-842-8496.

