

Subsurface Wastewater Disposal System Design Packet

PIN:

# **Table of Contents**

## **Project Details**

Contact Information	1
Table of contents page	2
Introduction Letter	
Common Form	5-13
Site Specifications	
Soils Evaluation	14-15
Site Plans	16-19
Design Specifications	
Initial and Repair System	20
System Components	
Septic Tank	21-22
Filter Specs	23
Nitrification Trench Detail	24
Quick 4 Chamber Product Detail	
Miscellaneous	
Information for the Contractor	27
Insurance Information	28-34

# PAC-ONE, PLLC

\_\_\_\_\_

## **Subsurface Wastewater Disposal System Design Packet**

Date:

Proposed for a:
-bedroom residential dwelling

Located at:

**DESIGNED BY:** 

**Steve Bristow** 

920 Garner Rd, Selma NC 27576

Email: stevebristow57@gmail.com

Phone: (919)906-4737

#### Session Law 2022-11 (S372) Introduction Letter

This information contained within this packet concerns a soils and subsurface wastewater evaluation conducted by:

#### Stephen W. Bristow (LSS#1167) of Permit Acquisition Company – One, PLLC

for the property hereaft	er describe	ed as:		
at the behest of:				
Owner Print:			 	
Owner Signature:	Will :	Smith	 	
Owner's Representative	(if any):	Will Smith	 	
Date:		No.		

The LSS/LG evaluation(s) attached to this application is to be used to issue an Improvement Permit in accordance with G.S 130A-335(a2) and (a3).

The plans or evaluations attached to this application are to be used to issue a Construction Authorization Permit in accordance with G.S. 130A-335 (a2), (a5), and (a6).

The LSS Evaluation is being submitted pursuant to, and meets the requirements, of G.S. 130A-335(a2).





**ROY COOPER • Governor KODY H. KINSLEY • Secretary** MARK BENTON • Chief Deputy Secretary for Health SUSAN KANSAGRA • Assistant Secretary for Public Health

Division of Public Health

## **Application for Services**

This application, in conjunction with the common form established in G.S. 130A-335(a3) and (a5), is optional for local health departments to be used for applications submitted in accordance with G.S. 130A-335(a2), (a3), and (a5). [hereinafter, G.S. 130A-335(a3) and (a5) permits referred to as (a2) Improvement Permit and (a2) Construction Authorization]

Applying for:  [ (a2) Improvement Permit [ (a2) Construction Author	rization (a2) Repair/Construction Authorization
If applying for a Construction Authorization, please indicate desire  Accepted Conventional Innovative Other	
<ul> <li>New Construction</li> <li>□ Expansion</li> <li>□ System Relocation</li> <li>□ S-Year Expiration Requested (site plan provided)</li> <li>□ Non-Exp</li> <li>Requesting DHHS review? (systems &gt;3000 GPD or IPWW)</li> <li>□ Yes</li> </ul>	iring Permit Requested (plat provided, defined in G.S.130A-334(7a)
Applicant:	Owner:
Mailing Address:	Mailing Address:
City:	City:
State: Zip:	State: Zip:
Phone #:	Phone #:
Email:	Email:
If the answer to any of the following questions is "yes", applican	· · · · · · · · · · · · · · · · · · ·
Yes No Does the site contain any jurisdictional	
	ed on the site other than domestic sewage?
Yes No Is the site subject to approval by any ot Yes No Are there any easements or right of wa	
res No Are there any easements of light of wa	ys on this property:
are to be used to issue an Improvement Permit and/or Construct I understand that authorized county and state officials are grant conduct necessary inspections to determine compliance with ap the application for an Improvements Permit and/or Construction then the Improvement Permit and Construction Authorization is	oplicable laws and rules. I understand that if the information in on Authorization is falsified, changed, or the site is altered, shall become invalid.
Applicant Signature:	Date:
Owner's Signature:	Date:

Permit/File #:	١
	١



**ROY COOPER • Governor** 

KODY H. KINSLEY • Secretary

MARK BENTON • Chief Deputy Secretary for Health

**SUSAN KANSAGRA** • Assistant Secretary for Public Health

Division of Public Health

Submittal Includes:	(a2) Improvement Permit	(a2) Construction Authorization	on Fee \$
	IMPROVEM	IENT PERMIT FOR G.S. 130A-3	335(a2)
County:			
Issued To:			
Subdivision (if applicab	le)	Lot #:	Block: Section:
LSS Report Provided: Y	′es		
If yes, name and license	e number of LSS:		
New 🗌	Expansion	System Relocation	Change of Use
Facility Type:			
Number of bedrooms:	Number of Occupants:	Other:	
Design Wastewater Str	ength: Domestic	High Strength Indu	ustrial Process Wastewater
	Flow: GPD		Proposed LTAR (Repair):
Proposed Wastewater	System Type*:	(Initial) Pump	Required: Yes No May be required
Proposed Wastewater	System Type*:	(Repair) Pump	Required: Yes No May be required
*Please include system	classification for proposed wastew	water system types in accordance with R	Rule .1301 Table XXXII
Effluent Standard:	DSE HSE NSF/ANSI 40	) TS-I TS-II RCW	
Saprolite System (Initia	al): 🗌 Yes 🔲 No Saprolite	e System (Repair): 🗌 Yes 🔲 No	
Fill System (Initial):	Yes No If yes, specify: Ne	w Existing (when adding more tha	nan 6 inches of fill to system area provide a fill plan)
Fill System (Repair):	Yes No If yes, specify: Ne	ew Existing (when adding more th	han 6 inches of fill to system area provide a fill plan)
Usable Depth to LC (Ini	tial)x:	Usable Depth to LC (Repair) <sup>x</sup> :	× Limiting Condition
Max. Trench Depth (Ini	tial)‡: Max. Trє	ench Depth (Repair)‡:	<sup>‡</sup> Measured on the downhill side of the trench
Artificial Drainage Requ	uired: 🗌 Yes 🔲 No If yes, pleas	se specify details:	
Type of Water Supply:	Private well Dublic well	Shared well Municipal Supply	oly Spring Other:
Drainfield location mee	ets requirements of Rule .0508: Ye	s No Drainfield location me	eets requirements of Rule .0601: Yes 🔲 No 🗌
Permit valid for: Tiv	re years [site plan submitted pursua	ant to GS 130A-334(13a)]	ration [plat submitted pursuant to GS 130A-334(7a)]
Permit conditions:			

The LSS evaluation is being submitted pursuant to and meets the requirements of G.S. 130A-335(a2).

\*See attached site sketch\*



Licensed Soil Scientist Print Name:

Licensed Soil Scientist Signature: \_ Alan Buter

Date: \_\_



## This Section for Local Health Department Use Only

Initial sub	omittal received:	b	ру	
		Date	Initials	
G.S. 130A-335(a3) states the following:				
When an applicant for an Improvement Permit submits to department, the common form developed by the Department within five business days of receiving the application, conformit includes all of the required components. If the located in the supplicant of the components needed to a department to cure the deficiencies in the Improvement is complete within five business days after the local healt act within any period set out in this subsection, the application form for use as the Improvement Permit.	ment, and a soil evaluation nduct a completeness revie al health department deter omplete the Improvement Permit. The local health de th department receives the	pursuant to subsectior wof the submittal. A demines that the Improve Permit. The applicant make a additional information	n (a2) of this section, the local he etermination of completeness n ement Permit is incomplete, the nay submit additional informati final determination as to wheth from the applicant. If the local	ealth department shall, neans that the Improvement local health department on to the local health er the Improvement Permit health department fails to
The review for completeness of this Improve Permit is determined to be:	ment Permit was con	ducted in accordar	nce with G.S. 130A-335(a3	3). This Improvement
☐ Incomplete (If box is checked, information	on in this section is rec	quired.)		
The following items are missing:				
# 3/			121	
Copies of this were sent to the LSS and the A		ute		
State Authorized Agent:			Date:	
☐ Complete	25/10			
State Authorized Agent:		1/2000	Date:	
This Improvement Permit is issued pursuant attached here. The issuance of this permit is for checking with appropriate governing bod plat, or the intended use changes. The Impropermit is subject to compliance with the proof. The Department, the Department's authorizany liabilities, duties, and responsibilities imevaluations, submittals, or actions from a lice	n no way guarantees dies in meeting their over ovement Permit shall ovisions of 15A NCAC and agents, and the lo oposed by statute or i	the issuance of ot requirements. <i>This</i> I not be affected be 18E and to the corecal health departments common law from	ther permits. The permit is permit is subject to revolve a change in ownership inditions of this permit.  The ments shall be discharged on any claim arising out of the permit out of the permit in th	holder is responsible ocation if the site plan, of the site. This d and released from of or attributed to
Improvement Permit Expiration Date:				

\*See attached site sketch\*



Permit/File #:
----------------

## **Re-submittal of Improvement Permit**

	LHD USE ONLY: This IP resubmittal rece	vived:	by	Initials	-
The following it	tems are being resubmitted pursuant to G.S. 1	130A-335(a3) for issu	uance of the In	nprovement Permi	t:
	a second	SIATE	All		
	hereby a Scientist (Print Name) complete to the best of my knowledge and t	ttest that the inform that the proposed Im			
State, and local	laws, regulations, rules, and ordinances.				
Signatur	re of Licensed Soil Scientist		Date	151	
LHD Follow-ւ	The section below is for Local Health Depart up Completeness Review of Improve		tal of items not	ed as missing above	n.
	completeness of this Improvement Permit re ermit is determined to be:	-submittal was cond	ucted in accord	dance with G.S. 13	30A-335(a3). This
☐ Incomplete	(If box is checked, information in this sectio	n is required.)			
The following it	ems are missing:	SUAM VID			
Copies of this w	vere sent to the LSS and the Applicant on	Date			
State Authorize	d Agent:			Date:	
☐ Complete					
State Authorize	d Agent:			Date:	



Permit/File #:	
----------------	--

#### CONSTRUCTION AUTHORIZATION FOR G.S. 130A-335(a2)

County:			Pre-Construction Conference Required: Yes No	
PIN/Lot Identifie	er:			
Issued To:				
Property Locatio	on:			
AOWE/PE Plans/	Evaluations Provided	d: Yes 🔲 No 🗌	If yes, name and license number of AOWE/PE:	
Facility Type:				
Number of bedro	ooms: Num	ber of Occupants:	Other:	
New	Expansion	Repair	System Relocation Change of Use	
Basement?	Yes	☐ No	Basement Fixtures?	
Crawl Space?	Yes	☐ No	Slab Foundation?	
Type of Wastewa	ater System*		(Initial)	(Repair)
*Please include s	system classification	for proposed waste	tewater system types in accordance with Rule .1301 Table XXXII	
Design Daily Flov	w:	_GPD Wa	astewater Strength: Domestic High Strength Industrial Pr	ocess WW
	4-120 Section 53, En ovide engineering do		Jtilizing Low-flow Fixtures and Low-flow Technologies?	
Effluent Standar	d: DSE H	SE NSF/ANSI	40 TS-I TS-II RCW	
Type of Water Su	upply: 🗌 Private we	ll Public well	I Shared well Municipal Supply Spring Other:	
Installation Requ	uirements/Condition	<u>15</u>		
Septic Tank Size:	: gallons	Total Trench/Be	ed Length:feet Trench/Bed Spacing:feet on center	
Trench/Bed Wid	th: inches	LTAR:	gpd/ft <sup>2</sup> Usable Depth to LC (Initial) <sup>x</sup> : <sup>x</sup> Limitin	g condition
Soil Cover:	_ inches	orrected Maximum	m Trench/Bed Depth‡: inches * Measured on the downhill side of	the trench
Pump Tank Size (	(if applicable):	gallons	Requires more than 1 pump?	
Pump Requireme	ents: ft. TDH	vs GPM	Grease Trap Size (if applicable): gallons	
Distribution Met	thod: Serial	D-Box or Parallel	Pressure Manifold(s) LPP Other:	
Artificial Drainag	ge Required: Yes	No 🗌 If yes, ple	ease specify details:	
Legal Agreemen	ts (If the answer is "	Yes" to any type of	f legal agreements, please attach a copy of the agreement.)	
Multi-party Agre	ement Required [.02	:04(g)]:	☐ No Declaration of Restrictive Covenants: ☐ Yes ☐ I	No
Easement, Right-	-of-Way, or Encroach	nment Agreement F	Required [.0301(b)]: Yes No	
Management En	tity Required: 🗌 Ye	es 🗌 No Minimu	num O&M Requirements:	
Permit conditi	ons:			
ho roquiromon	to of 1EA NCAC 19E	are incorporated b	ny reference into this permit and shall be met. Systems shall be installed in	accordance

with the attached site sketch. This Construction Authorization is subject to revocation if the site plan, plat, or the intended use changes. The Construction Authorization shall not be affected by a change in ownership of the site. This Construction Authorization is subject to compliance Certification Number 10012E with the provisions of 15A NCAC 18E, or 15A NCAC 18A .1900, as applicable, and to the conditions of this permit.

AOWE/PE Print Name: \_ AOWE/PE Signature: \_ Date: \_\_\_

This AOWE/PE submittal is pursuant to and meets the requirements of G.S. 130A-335(a2) and (a5).

\*See attached site sketch\*



Permit/File #:	

## This Section for Local Health Department Use Only

Initial submittal received: \_\_\_\_\_\_ by \_\_\_\_\_

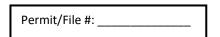
	Date	Initials
G.S. 130A-335(a5) states the following:		
When an applicant for a Construction Authorization, or an Improvement Permit improvement Permit and Construction Authorization application together, the proper provement Permit and Construction Authorization application together, the proper provement, and any necessary signed and sealed plans or evaluations conductive engineer or a person certified pursuant to Article 5 of Chapter 90A of the General department shall, within five business days of receiving the application, conductive the Construction Authorization or Improvement Permit and Construction Authorization or Improvement Permit and Construction Authorization of the components needed to complete the Construction Authorization additional information to the local health department to cure the deficiencies in Authorization. The local health department shall make a final determination as Authorization is complete within five business days after the local health department feight for the building permit for the project upon the decision of completeness of Authorization by the local health department or if the local health department ficiensed engineer submitting the evaluation pursuant to this subsection may reconstruction or Improvement Permit and Construction Authorization for cause and the Indian permit of the Indian Permit and Construction Authorization for cause and the Indian Permit Shall develop a common form for use as the Construction and Shall Department shall develop a common form for use as the Construction and Shall Permit Shall develop a common form for use as the Construction and Shall Permit Shall develop a common form for use as the Construction and Shall Permit Shall develop a common form for use as the Construction and Shall Permit Shall develop a common form for use as the Construction and Shall Permit Shall Permit Shall develop a common form for use as the Construction and Shall Permit Shall Permi	ermit fee charged by the led by a person licensed pural Statutes as an Authorize a completeness review of rization includes all of the lastruction Authorization is a romprovement Permit of the Construction Authorization whether the Construction authorization to whether the failure to confit the Construction Authorization to act within five businguest that the local health Upon written request of the Authorization or Improvention or Improventical by a person of the Improventical of the Authorization or Improventical by a person of the Authorization or Improventical Order or Improventic	ocal health department, the common form developed by the resuant to Chapter 89C of the General Statutes as a licensed and On-Site Wastewater Evaluator, the local health the submittal. A determination of completeness means that required components. If the local health department incomplete, the local health department shall notify the and Construction Authorization. The applicant may submit reation or Improvement Permit and Construction on Authorization or Improvement Permit and Construction and information from the applicant. If the local health fact as a determination of completeness. The applicant may rization or Improvement Permit and Construction hess days. The Authorized On-Site Wastewater Evaluator or department revoke or suspend the Construction the Authorized On-Site Wastewater or licensed
The review for completeness of this Construction Authorization	was conducted in ac	ccordance with G.S. 130A-335(a5). This
Construction Authorization is determined to be:		
$\hfill \square$ Incomplete (If box is checked, information in this section is	required.)	
The following items are missing:		
Copies of this were sent to the AOWE/PE and the Applicant on	Date	
State Authorized Agent:		Date:
☐ Complete	1776	
State Authorized Agent:	412.1/	Date of Issuance:
This Construction Authorization is issued pursuant to G.S. 130, attached here. This Construction Authorization is subject to reconstruction Authorization shall not be affected by a change in compliance with the provisions of the Laws and Rules for Section Department, the Department's authorized agents, and the law liabilities, duties, and responsibilities imposed by statute of the Construction.	vocation if the site p n ownership of the s ewage Treatment and e local health depart	plan, plat, or the intended use changes. The ite. This Construction Authorization is subject d Disposal and to the conditions of this permit.  ments shall be discharged and released from
plans, evaluations, preconstruction conference findings, submodelans, evaluations, preconstruction conference findings, submodelans, evaluated as a licensed engineer or a person certification and the State Wastewater Evaluator in GS 130A-335(a2), agents, and the local health departments shall be responsible obligations under State law or rule, including the issuance of t	ittals, or actions fror ed pursuant to Articl (a5), and (a7). The I and bear liability for	m a person licensed pursuant to Chapter 89C of e 5 of Chapter 90A of the General Statutes as an Department, the Department's authorized their actions and evaluations and other
Construction Authorization Expiration Date:		



Permit/File #:
----------------

## **Re-submittal of Construction Authorization**

	LHD USE ONLY: TI	his CA resubmittal received:	Date	by Initials	-			
The following items are being resubmitted pursuant to G.S. 130A-335(a5) for issuance of the Construction Authorization:								
			ATE	A				
I.		hereby attest t	hat the information r	equired to be included wit	th this re-submittal			
is accurate and		( <i>Print Name)</i> of my knowledge and that th ons, rules, and ordinances.						
Signatui	re of Authorized On-Site Was	stewater Evaluator	4	Date				
		ร for Local Health Department เ		ems noted as missing above	<u> </u>			
LHD Follow-	up Completeness F	Review of Construction	Authorization					
	completeness of this C on Authorization is det	onstruction Authorization re ermined to be:	-submittal was condu	ucted in accordance with (	G.S. 130A-335(a5).			
☐ Incomplete	(If box is checked, info	rmation in this section is req	uired.)					
The following it	ems are missing:							
		AND 35E ON	M AIDER	(F				
Copies of this w	vere sent to the AOWE	/PE and the Applicant on	Date	-				
State Authorize	ed Agent:			Date:				
☐ Complete								
State Authorize	ed Agent:			Date:				





## ADDENDUM TO G.S. 130A-335(a2) SUBMITTAL

County:	
PIN/Lot Identifier:	
Issued To:	
Additional Improvement Permit Conditions:	
	200
STATE STATE	
MAT DO 155	
9/23/03 9	
11 57 L AS. 10	
	35 AB \ - V
RIST - YEAR ENGLISHED	
Additional Construction Authorization Conditions:	
1PRII 12 17	16/19
W Esse	DERIT /
QUAM V	



Permit #:	
-----------	--

## **Re-submittal of Construction Authorization**

	THD LISE ONLY:	This CA resultmittal resolved:		by	
	LHD OSE ONLY.	This CA resubmittal received:	Date	by Initials	
The following it	tems are being resub	omitted pursuant to G.S. 130A-33	35(a5) for issuance o	f the Construction Authoriz	cation:
		T	ATE	<i>y</i>	
l,			at the information re	equired to be included with	this re-submittal
is accurate and		tor (Print Name) st of my knowledge and that the ations, rules, and ordinances.	proposed Construct	cion Authorization meets all	applicable
Signatur	e of Authorized On-Site V	Vastewater Evaluator		Date	
		w is for Local Health Department us		ems noted as missing above.	
LHD Follow-เ	up Completeness	s Review of Construction A	uthorization		
	completeness of this on Authorization is c	s Construction Authorization re-s determined to be:	submittal was condu	icted in accordance with G.	S. 130A-335(a5).
☐ Incomplete (	If box is checked, in	formation in this section is requi	ired.)		
The following it	ems are missing:				
		ALIO 3CO ALIA	M VIDERLY		
Copies of this w	ere sent to the AOV	VE/PE and the Applicant on	Date		
State Authorize	d Agent:			Date:	
☐ Complete					
State Authorize	d Agent:			Date:	

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

	Page <u>1</u> of
PROPERTY ID #:	
COUNTY:	

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

OWNE				(Complete all				E EVALU	JATED:	
ADDR PROPO	ESS: DSED FACILITY FION OF SITE:	<u></u>	PR	OPOSED DESIGN	FLOW (.0400):		PROP	ERTY SIZI	E:	
WATE	R SUPPLY: 🗆 1	Public 🗌 Sin		☐ Shared Well ☐ ☐ Cut TY			WATE	R SUPPLY	SETBACK:_	
P R O F				RPHOLOGY			LE FACTO			
I L E	.0502 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	.0503 STRUCTURE/ TEXTURE	.0503 CONSISTENCE/ MINERALOGY	.0504 SOIL WETNESS/ COLOR	.0505 SOIL DEPTH	.0506 SAPRO CLASS	.0507 RESTR HORIZ	.0509 PROFILE CLASS & LTAR*	.0502(d) SLOPE CORRE CTION
1					- - -					
2					-					
3					-					
4					-					
	ESCRIPTION	INITIAL SYS	STEM REPAIR S	YSTEM						
	le Space (.0508) Type(s)			SITE CLA EVALUA	SSIFICATION (	.0509):		500 SOI	E SCIENT	
Site LT				OTHER(S	) PRESENT:		//			
	ım Trench Depth						((			-
Comme	ents:						\	NOR NOR		
								The second second		

Revised January 2024 Form SSE-24.2

Hen Buter

#### **LEGEND**

LANDSCAPE POSITION	SOIL GROUP	SOIL TEXTURE	CONVENTIONAL LTAR (gpd/ft²)	SAPROLITE LTAR (gpd/ft²)	LPP LTAR (gpd/ft²)	MINERA CONSIS	•	STRUCTURE
CC (Concave slope)		S (Sand)		0.6 - 0.8		MOIST	WET	SG (Single grain)
CV (Convex Slope)	j '	LS (Loamy sand)	0.8 - 1.2	0.8 - 1.2	0.4 -0.6	Lo (Loose)	NS (Non-sticky)	M (Massive)
D (Drainage way)	li li	SL (Sandy loam)	0.6 - 0.8	0.4 -0.6	0.3 - 0.4	VFR (Very friable)	SS (Slightly sticky)	GR (Granular)
FP (Flood plain)		L (Loam)		0.2 - 0.4		FR (Friable)	S (Sticky)	SBK (Subangular blocky)
FS (Foot slope)		SiL (Silt loam)		0.1 - 0.3		FI (Firm)	VS (Very sticky)	ABK (Angular blocky)
H (Head slope)		SCL (Sandy clay loam)		0.05 - 0.15**		VFI (Very firm)	NP (Non-plastic)	PR (Prismatic)
L (Linear Slope)	III	CL (Clay loam)	0.3 - 0.6		0.15 - 0.3	EFI (Extremely firm)	SP (Slightly plastic)	PL (Platy)
N (Nose slope)		SiCL (Silty clay loam)					P (Plastic)	
R (Ridge/summit)		Si (Silt)		None			VP (Very plastic)	
S (Shoulder slope)		SC (Sandy clay)				SEXP (Slightly	expansive)	
T (Terrace)	IV	SiC (Silty clay)	0.1 - 0.4		0.05 - 0.2	EXP (Exp	ansive)	
TS (Toe Slope)	1	C (Clay)						-
	•	O (Organic)	None					

<sup>\*</sup> Adjust LTAR due to depth, consistence, structure, soil wetness, landscape, position, wastewater flow and quality.
\*\*Sandy clay loam saprolite can only be used with advanced pretreatment in accordance with 15A NCAC 18E .1200.

HORIZON DEPTH In inches below natural soil surface DEPTH OF FILL RESTRICTIVE HORIZON In inches from land surface

Thickness and depth from land surface

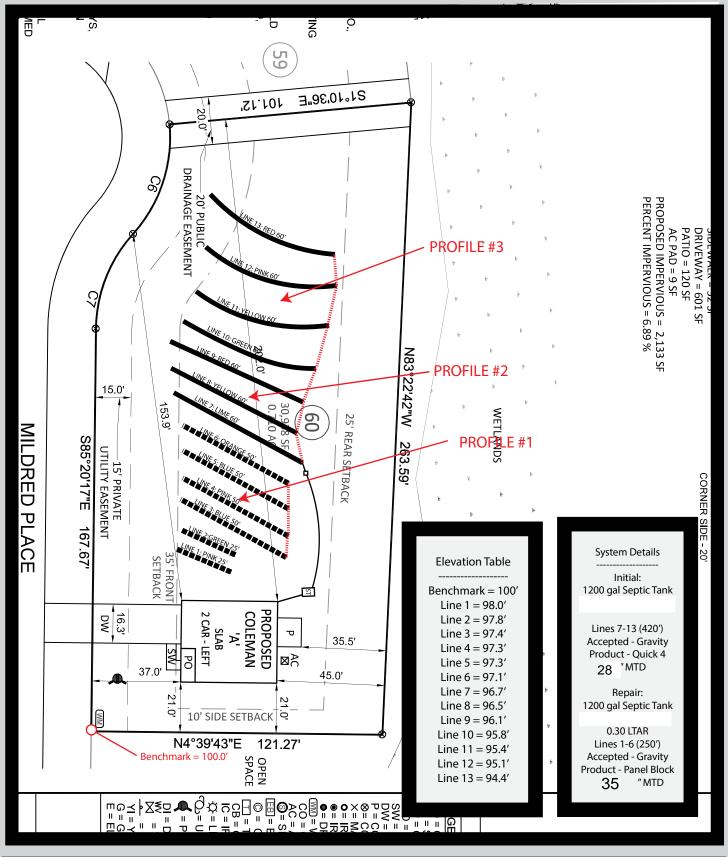
SAPROLITE S(suitable) or U(unsuitable); Evaluation of saprolite shall be by pits.

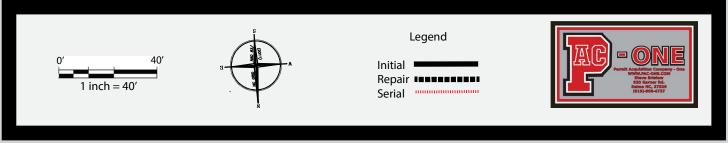
Inches from land surface to free water or inches from land surface to soil colors with chroma 2 or less - record Munsell color chip designation SOIL WETNESS

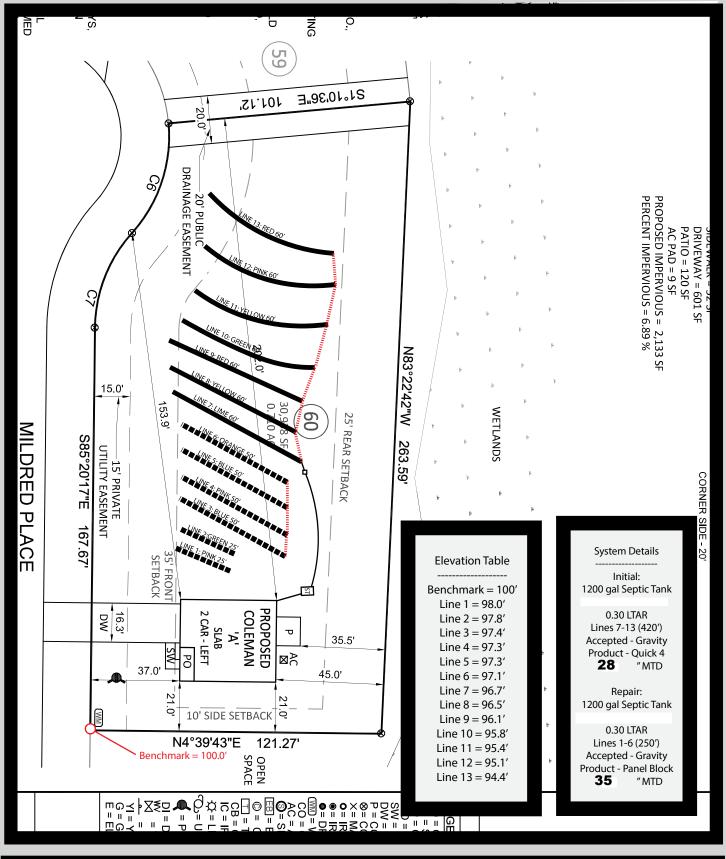
CLASSIFICATION S (Suitable) or U (Unsuitable)

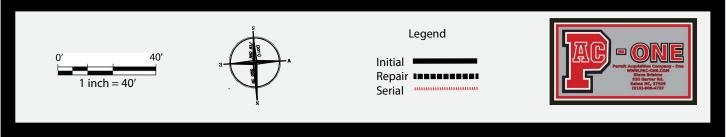
Show profile locations and other site features (dimensions, reference or benchmark, and North).

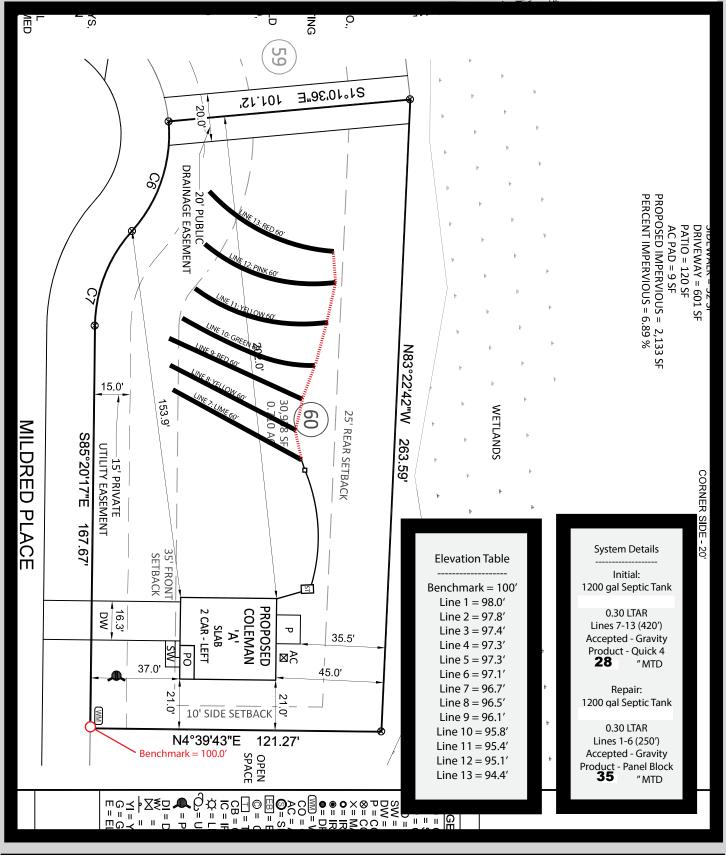
NCDHHS/DPH/EHS/OSWP Revised January 2024

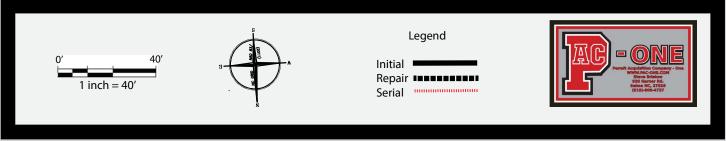


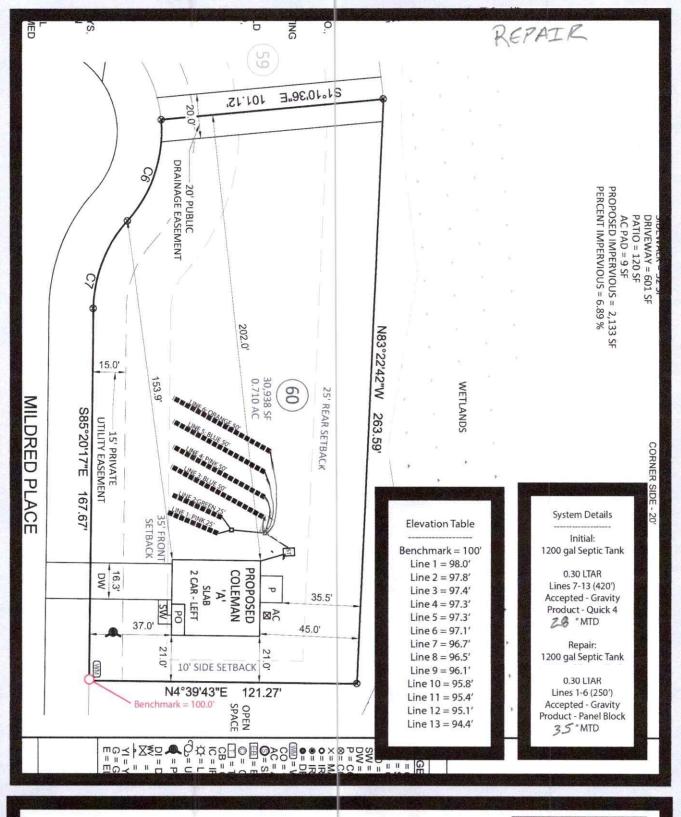


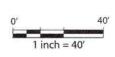














Legend





# SYSTEM DETAIL OVERVIEW

# **Initial System**

Design Criteria	
Number of bedrooms Design Flow Soil L.T.A.R.	
System Detail	
Trench Depth Total Trench Length Distribution	
System Components	
Trench Product Septic Tank Effluent Filter	

# Repair System

Design Criteria	
Number of bedrooms Design Flow Soil L.T.A.R.	
System Detail	
Trench Depth Total Trench Length Distribution	
System Components	
Trench Product Septic Tank Effluent Filter	



#### PL-68 Filter and Tee

PL-68 is much more than just an effluent filter. The housing can also be used as an inlet baffle (tee) or an outlet baffle. The housing is designed to accept Polylok's snap in gas deflector to deflect gas bubbles away from the tee and to keep the solids in the tank.

#### **Features:**

- Offers 68 linear feet of 1/16" filter slots, which significantly extends time between cleaning.
- Accepts 3/4" PVC handle.
- Locks in any 360° position when used with PL-68 Tee.
- PL-68 Housing can be used as an inlet or outlet tee.
- Gasket prevents bypass.

#### PL-68 Installation:

Ideal for residential waste flows up to 800 gallons per day (GPD). Easily installs in any new or existing 4" outlet tee.

- 1. Locate the outlet of the septic tank.
- 2. Remove the tank cover and pump tank if necessary.
- 3. Glue the filter housing to the outlet pipe, or use a Polylok Extend & Lok if not enough pipe exists.
- 4. Insert the PL-68 filter into tee.
- 5. Replace and secure the septic tank cover.

#### PL-68 Maintenance:

The PL-68 Effluent Filter will operate efficiently for several years under normal conditions before requiring cleaning. It is recommended that the filter be cleaned every time the tank is pumped, or at least every three years.

- 1. Do not use plumbing when filter is removed.
- 2. Pull PL-68 out of the tee.
- 3. Hose off filter over the septic tank. Make sure all solids fall back into septic tank.
- 4. Insert filter back into tee/housing.

#### **Related Products:**

PL-68 Filter Concrete Baffle Extend & Lok $^{TM}$ 



Extend & Lok™ Easily installs into existing tanks.



to 110mm Pipe

to SDR 35

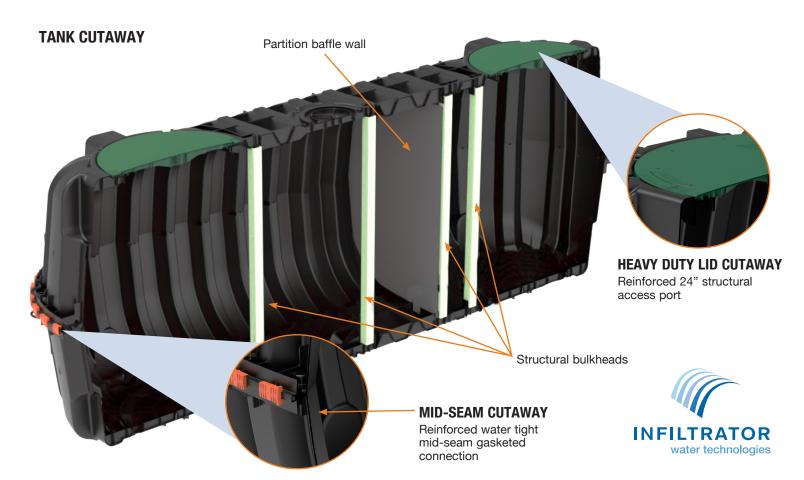




#### **Features & Benefits**

- Strong injection molded polypropylene construction
- Lightweight plastic construction and inboard lifting lugs allow for easy delivery and handling
- Integral heavy-duty green lids that interconnect with EZsnap risers, Safety Star secondary safety lid system, and pipe riser solutions
- Structurally reinforced access ports eliminate distortion during installation and pump-outs
- Reinforced structural ribbing and fiberglass bulkheads offer additional strength
- · Can be installed with 6" to 48" (152 to 1,219 mm) of cover
- · Can be pumped dry during pump-outs
- Suitable for use as a septic tank, pump tank, or rainwater (nonpotable) tank
- · No special water filling requirements are necessary
- The tank may be backfilled with suitable native soil. See installation instructions for guidance.

The Infiltrator IM-1250 is a lightweight, strong and durable septic tank. This watertight tank design is offered with Infiltrator's line of custom-fit EZsnap risers and heavy-duty lids. Infiltrator injection molded tanks provide a revolutionary improvement in plastic tank design, offering exceptional long-term strength and watertightness.



#### **IM-1250 General Specifications and Illustrations**

The IM-1250 is an injection molded two-piece mid-seam polypropylene tank. The injection molded design of theIM-1250 allows for a mid-seam joint that has precise dimensions for accepting an engineered EPDM gasket. The engineered mid-seam joint accepts a continuous loop EPDM gasket. Infiltrator's EPDM gasket design utilizes technology and materials from the sanitary sewer pipe industry to deliver a reliable watertight seal. The two-piece design is permanently fastened using a system of molded-in alignment dowels and locking seam clips. The IM-1250 is assembled and sold through a network of certified Infiltrator distributors.



Must be backfilled and installed in accordance with the Infiltrator IM- and CM-Series Septic Tank General Installation Instructions. For shallow ground water conditions reference the Infiltrator IM- and CM-Series Tank Buoyancy Control Guidance.

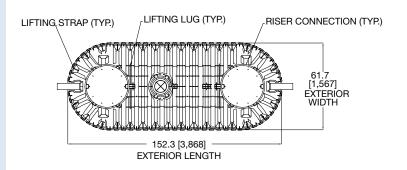
Please visit www.infiltratorwater.com or scan QR code for the latest information.

IM-1250	
Working Capacity	1,278 GAL (4,839 L)
Total Capacity	1,480 GAL (5,602 L)
Airspace	16.30%
Length	154" (3,911 mm)
Width	61.7" (1,567 mm)
Length-to-Width Ratio	2.8 : 1
Height	54.6" (1,387 mm)
Liquid Level	44" (1,118 mm)
Invert Drop	3" (76 mm)
Fiberglass Supports	4
Compartments	1 or 2
Maximum Burial Depth	48" (1,219 mm)
Minimum Burial Depth	6" (152 mm)
Maximum Pipe Diameter	4" (102 mm)
Weight	405 lbs (184 kg)

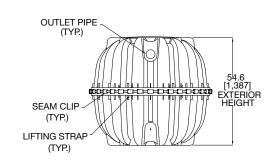


4 Business Park Road P.O. Box 768 Old Saybrook, CT 06475 860-577-7000 • Fax 860-577-7001

1-800-221-4436 www.infiltratorwater.com info@infiltratorwater.com



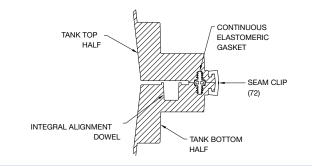
#### **TOP VIEW**



#### **END VIEW**



#### SIDE VIEW



**MID-HEIGHT SEAM SECTION** 

For U.S. Patents information visit www.infiltratorwater.com/patents. Other patents pending. Infiltrator, Quick4 and EZflow are registered trademarks of Infiltrator Water Technologies. Infiltrator Water Technologies is a wholly-owned subsidiary of Advanced Drainage Systems, Inc. (ADS).

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IM125 0124

#### INFORMATION FOR THE CONTRACTOR

The permit should be read very carefully prior to bidding. The following are details that must be considered by the contractor prior to and during installation:

- Tanks shall be approved by NCDHHS and certification supplied by the manufacturer.
- The installer shall be responsible to the owner for placement of the tanks and to ensure that final grades are returned to the original grade, with exception of added structural features.
- The supply trench shall be compacted to eliminate cavities left during initial fill placement without damage or displacement of pipe or fittings.
- Installation of the system shall be during dry conditions in order to protect the soil structure.
- All fittings shall be pressure rated fittings.
- All joints shall be cleaned with PVC pipe cleaner and a heavy-bodied PVC pipe glue applied to weld all joints.
- Where required by the regulating County Health Department, post installation inspections by the Engineer or his representative must be scheduled **5 week days** in advance.
- Trenches shall be carefully excavated so the bottom is level **for the entire length and width of the trench**. If the trench bottom level needs adjusting after excavation it **must** be done by removing high points rather than filling low points. It is extremely important to insure that trenches are not over-excavated during initial trenching. All fine grading within the trench will be done by hand with a shovel. No loose material will be left in the trench.
- All pipe openings in the tanks shall be properly filled with press boot seal. This also applies to the joints around the riser.
- All tanks shall be properly back filled and compacted to prevent settlement.
- Earth dams, constructed of relatively impervious material, shall be installed at the beginning and end of each lateral.
- No heavy equipment shall be used on the field during or after installation.
- Elevations at pin flag locations should be checked by the contractor prior to beginning trench excavation.
- Pump tank riser shall be 6" above grade, control panel shall be 18" above grade.
- -Septic tank shall have specified effluent filter or approved equivalent.

#### **System Specifics:**

- System uses Quick 4 Chamber drain line.
- Repair uses Panel Block drain line.

# Miscellaneous errors and omissions

Markel has over 35 years of experience providing miscellaneous errors and omissions insurance. Our leadership has a wealth of knowledge and expertise in protecting small business owners from litigation stemming from actual or perceived negligence. Our underwriting team has crafted policies that fit your specific needs, while our seasoned, in-house claims professionals will help you successfully navigate a loss or claim should you need their assistance.

#### Reporting new professional liability claims

New Claims can be reported in writing by website, email, fax, or regular mail. Please refer to your specific policy for all relevant reporting requirements.

To report a new claim, visit markelinsurance.com/file-a-claim and select "BOP/Miscellaneous errors and omissions/Workers compensation" from the drop down. You can also email newclaims@markelcorp.com and include the following:

- Policy number
- Insured and claimant names with contact details
- · Date of loss
- Location and description of loss
- All pertinent documentation available (incident report, police report, witness information, photos, etc.)

#### General claims questions

For information about an already reported Professional Liability claim, email: markelclaims@markelcorp.com, or contact your assigned claim examiner directly.

Additional contact information:

(800) 362-7535 or (800) 3 MARKEL (855) 662-7535 or (855) 6 MARKEL

Markel Claims Department, P.O. Box 2009,

Glen Allen, VA 23058-2009

While your policy is primarily designed to protect against a variety of professional errors and omissions claims, it may also provide protection for other specific exposures such as pollution claims, disciplinary proceedings, third party discrimination claims, subpoena and public relations expenses, among others. Contact your agent for more information, or if you have reported a Claim, your assigned examiner.

#### Risk management and loss prevention

Policyholders have access to loss control and risk management resources that can assist in a better understanding of potential hazards within their operation and ways to reduce claims.

Here's a sample of the many services available:

- Exposure assessments
- Loss analysis tools
- Safety videos
- Safety training materials
- Regulatory program guidance

## Designed Protection® for professional service providers and associations – professional service providers hotline

Our panel of Risk Management experts is available to discuss general risk management related concerns and questions. Please visit **markelcorp.com/riskmanagement** and under "Designed Protection®" click "Click here," enter your policy number, then select "Professional Service Providers Hotline" to access our panel of experts.

Visit our website at:

markelinsurance.com/risk-management-home.

For more information about any of Markel's loss control services, contact us at (888) 500-3344 or email losscontrol@markelcorp.com.

For more information about our programs, risk management articles, and FAQs, please visit **markelinsurance.com**. To pay your bill or view policy documents, please visit **portal.markelinsurance.com**.





#### CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 11/26/2024

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 be endorsed. If SUBROGATION IS WAIVED, subject to

	e terms and conditions of the policy, rtificate holder in lieu of such endors		•	icies may require an endo	rseme	nt. A stateme	ent on this ce	rtificate does n	ot confer	rights	to the
PRODUCER				CONTACT NAME: Angela Sensenig							
Wade Associates, LLC				PHONE (A/C, No, Ext): FAX (A/C, No): (252)649-2443							
250	Pollock St.				E-MAIL ADDRES	SS: asensen	ig@wadeict	.com			
					INSURER(S) AFFORDING COVERAGE					NAIC #	
New	Bern NC 28	560			INSURER A: Starstone Specialty Insurance Company				44776		
INSU	RED				INSURE	кв:Builder	s Mutual	Insurance C	ompany		10844
Per	mit Acquistion Company One,	PLLC	2		INSURE	RC:					
920	Garner Rd				INSURE	RD:					
					INSURER E :						
Sel	ma NC 27	576			INSURE	RF:					
				NUMBER: 24-25				REVISION NU			
IN CI	IIS IS TO CERTIFY THAT THE POLICIES OF DICATED. NOTWITHSTANDING ANY REQUESTIFICATE MAY BE ISSUED OR MAY PER CCLUSIONS AND CONDITIONS OF SUCH F	JIREM TAIN, POLICI	IENT, THE II	TERM OR CONDITION OF AN NSURANCE AFFORDED BY T MITS SHOWN MAY HAVE BE	IY CONT HE POL	RACT OR OTH	HER DOCUMEN BED HEREIN I	NT WITH RESPEC	CT TO WHIC	CH THIS	
LTR	TYPE OF INSURANCE		WVD	POLICY NUMBER		(MM/DD/YYYY)	(MM/DD/YYYY)		LIMITS	3	
	X COMMERCIAL GENERAL LIABILITY							EACH OCCURRENT DAMAGE TO RENT	FD	\$	1,000,000
A	CLAIMS-MADE X OCCUR							PREMISES (Ea occ	currence)	\$	100,000
				SSEP0476240AEM		11/22/2024	11/22/2025	MED EXP (Any one	. /	\$	10,000
								PERSONAL & ADV		\$	1,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER:							GENERAL AGGREC		\$	2,000,000
	X POLICY PRO-							PRODUCTS - COM		\$	2,000,000
	OTHER: AUTOMOBILE LIABILITY							COMBINED SINGLE		\$	
								(Ea accident) BODILY INJURY (F		\$	
ANY AUTO ALL OWNED SCHEDULED								BODILY INJURY (F		\$	
	AUTOS AUTOS NON-OWNED							PROPERTY DAMAG	·- '	\$	
	HIRED AUTOS AUTOS							(Per accident)		\$	
	UMBRELLA LIAB OCCUR									-	
	-va-sa Occor							EACH OCCURREN		\$	
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	DED   RETENTION \$ WORKERS COMPENSATION	+						X PER STATUTE	OTH-	Ф	
	AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE							E.L. EACH ACCIDE	ER	\$	500,000
в	OFFICER/MEMBER EXCLUDED? (Mandatory in NH)	OFFICER/MEMBER EXCLUDED?     N / A		69KOUB-5N24039-7-24		11/14/2024	11/14/2025	E.L. DISEASE - EA		\$	500,000
If yes, describe under				03.1002 3.121033 7 21				E.L. DISEASE - POI		\$	500,000
	DÉSCRIPTION OF OPERATIONS below								LICT LIMIT	Ψ	
A	Errors & Omissions			SSEP0476240AEM		11/22/2024	11/22/2025	Each Occurrence			\$1,000,000
								General Aggregate			\$2,000,000
DESC	DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)										
CEI	RTIFICATE HOLDER				CANC	ELLATION		· · · · · · · · · · · · · · · · · · ·			
Smith Douglas Homes 3412 Apex Peakway Apex, NC 27502				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							

N Whitsett/RACHEL



#### MARKEL INSURANCE COMPANY

10275 West Higgins Road, Suite 750 Rosemont, IL 60018 (800) 431-1270

#### **INSURANCE POLICY**

Coverage afforded by this policy is provided by the Company (Insurer) and named in the Declarations.

In **Witness Whereof**, the company (insurer) has caused this policy to be executed and attested and countersigned by a duly authorized representative of the company (insurer) identified in the Declarations.

Kathleen Anne Sturgeon By W. Sahres

Secretary

President

MJIL 1000 06 10 Page 1 of 1



#### MARKEL INSURANCE COMPANY

# NOTICE TO POLICYHOLDERS CLAIM REPORTING

Please immediately report a new claim under this policy to:

#### newclaims@markel.com

For general claims inquiries after a claim has been reported, please email:

#### markelclaims@markel.com

In order for us to expedite the handling of your claim and quickly refer it to the appropriate party, please have the following information available:

- Claim number (or report as new)
- Your name, contact information and position with the Named Insured
- Date of loss
- Policy number and insured name
- Details of loss

Our address and additional contact information are as follows:

Markel Claims P.O. Box 2009 Glen Allen, VA 23058-2009 Phone: 800-362-7535 (800) 3MARKEL

Fax: 855-662-7535 (855) 6MARKEL

Markel understands the importance of having knowledgeable claims professionals prepared to answer your questions with personal attention and expertise. With claims professionals located across four times zones, you are sure to find the claims assistance you need -- when you need it.

PLEASE REFER TO THE POLICY FOR ANY NOTICE AND REPORTING PROVISIONS AND DUTIES IN THE EVENT OF LOSS OR DAMAGE TO COVERED PROPERTY.

MPIL 1074 07 14 Page 1 of 1



#### MARKEL INSURANCE COMPANY

# U.S. TREASURY DEPARTMENT'S OFFICE OF FOREIGN ASSETS CONTROL ("OFAC") ADVISORY NOTICE TO POLICYHOLDERS

No coverage is provided by this Policyholder Notice nor can it be construed to replace any provisions of your policy. You should read your policy and review your Declarations page for complete information on the coverages you are provided.

This Notice provides information concerning possible impact on your insurance coverage due to directives issued by OFAC. Please read this Notice carefully.

The Office of Foreign Assets Control (OFAC) administers and enforces sanctions policy, based on Presidential declarations of "national emergency". OFAC has identified and listed numerous:

- · Foreign agents;
- Front organizations;
- Terrorists;
- · Terrorist organizations; and
- Narcotics traffickers;

as "Specially Designated Nationals and Blocked Persons". This list can be located on the United States Treasury's web site – https://www.treasury.gov/ofac.

In accordance with OFAC regulations, if it is determined that you or any other insured, or any person or entity claiming the benefits of this insurance has violated U.S. sanctions law or is a Specially Designated National and Blocked Person, as identified by OFAC, this insurance will be considered a blocked or frozen contract and all provisions of this insurance are immediately subject to OFAC. When an insurance policy is considered to be such a blocked or frozen contract, no payments nor premium refunds may be made without authorization from OFAC. Other limitations on the premiums and payments also apply.

### **Markel Insurance Company**



#### PROFESSIONAL LIABILITY INSURANCE DECLARATIONS

Claims Made and Reported Coverage: The coverage afforded by this policy is limited to liability for only those Claims that are first made against the Insured during the Policy Period or the Extended Reporting Period, if exercised, and reported to Markel Insurance Company during the Policy Period or the Extended Reporting Period, if exercised, or within 60 days after the expiration of the Policy Period or the Extended Reporting Period, if exercised.

**Notice:** This policy contains provisions that reduce the Limits of Liability stated in the policy by the costs of legal defense and permit legal defense costs to be applied against the deductible, unless the policy is amended by endorsement. Please read the policy carefully.

POLICY NUMBER: MEO1642-05 RENEWAL OF POLICY: MEO1642-04

NAMED INSURED: Permit Acquisition Company-One LLC

BUSINESS ADDRESS: 920 Garner Road Selma, NC 27576

POLICY PERIOD: From 11/22/2023 to 11/22/2024

12:01 A.M. Standard Time at address of Insured stated above.

IN RETURN FOR THE PAYMENT OF THE PREMIUM, AND SUBJECT TO ALL THE TERMS OF THIS POLICY, THE COMPANY AGREES WITH THE NAMED INSURED TO PROVIDE THE INSURANCE AS STATED IN THIS POLICY.

1. PROFESSIONAL SERVICES: soil science

#### 2. LIMITS OF LIABILITY

#### **Professional Liability Coverage**

Α.	Each Claim:	\$2,000,000
В.	Policy Aggregate:	\$2,000,000

#### **Additional Payments**

A.	Contingent Bodily Injury And Property Damage	\$100,000
B.	Pollution	\$10,000
C.	Pre-Claim Assistance Expenses	\$20,000
D.	Sexual Abuse	\$10,000
E.	Third Party Discrimination	\$25,000

#### **Supplementary Payments**

Α.	Disciplinary Proceeding	\$25,000	per Polic	y Period
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В.	Loss Of Earnings And Expense Reimbursement	\$10,000
C.	Public Relations Expenses	\$5,000
D.	Subpoena And Record Request Assistance	\$5.000

#### **Producer Number, Name and Mailing Address**

98496

Wade Associates, LLC. - New Bern

PO Box 1209

Davidson, NC, 28036

MDST 1000 07 17 Page 1 of 2

3. DEDUCTIBLE

 A. Each Claim:
 \$1,000

 B. Aggregate:
 \$3,000

**4. RETROACTIVE DATE:** 11/22/2019

5. PREMIUM RATE: Flat PREMIUM BASE: Flat

6. PREMIUM FOR POLICY PERIOD

Minimum: \$560
Deposit: \$560
Adjusted Annual Premium: \$560

- 7. PREMIUM PERCENTAGE FOR EXTENDED REPORTING PERIOD: ADDITIONAL PERIOD:
- 8. FORMS AND ENDORSEMENTS ATTACHED AT POLICY INCEPTION:

See MDIL 1001 attached.

These declarations, together with the Coverage Form and any Endorsement(s), complete the above numbered policy.

Countersigned: 08/30/2023 (Date)	By: John K Clark
	Authorized Representative Signature

MDST 1000 07 17 Page 2 of 2