

1900 South Main Street, Suite 110, Wake Forest, NC 27587 Office Number: 919-569-6704

Acknowledgment of Subsurface wastewater evaluation and septic design by Central Carolina Soil Consulting, PLLC. for <u>98 Pondhurst Lane, Lot 1 (PIN: 0634-81-6092)</u> for issuance of an IP and CA.

For Improvement Permit (IP) issuance: "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)."

For Construction Authorization (CA) issuance:

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

The LSS evaluation attached to this application was used to produce and design a subsurface wastewater septic system for permitting to obtain an IP and CA in accordance G.S. 130A-335(a2), (a3), (a5) and (a6).

 Owner:
 Elm Street Builders, LLC

 Owner's representative:
 Christopher Weir

Date:

12/7/2023

		Permit #:				
STATE ON A	ROY COOPER • Governor					
NC DEPARTMENT OF	KODY H. KINSLEY • Secretary					
HEALTH AND HUMAN SERVICES	MARK BENTON • Deputy Secre	etarv for Health				
HUMAN SERVICES	SUSAN KANSAGRA • Assistan	-				
The CULAN MORAL	Division of Public Health	,				
Submittal Includes: 📝 (a2) Improvement Permit	(a2) Construction Authorization	Fee \$				
	PERMIT FOR G.S. 130A-335(a2)				
County: Harnett	0634-81-6092					
PIN/Lot Identifier:						
Issued To:	elini Street Builders, LEC	275.26				
Property Location: 98 Por	idnurst Lane, Fuquay-Varina, NC 2	.7520				
Subdivision (if applicable) Pondhurst	Lot #: Blo	ock: Section:				
LSS Report Provided: Yes 🖌 No 🗌		040				
If yes, name and license number of LSS:						
	System Relocation					
Proposed Structure:						
Number of bedrooms: <u>4</u> Number of Occupants: <u>≤ 8</u>						
	high strength					
Proposed Design Daily Flow: 480 GPD Prop						
Proposed Wastewater System Type*: IIIB, pressure mar						
Proposed Wastewater System Type*: IIIB, pressure man	(Repair) Pump Required	d: 🖌 Yes 🗌 No 📄 May be required				
*Please include system classification for proposed wastewater s		18A .1961 Table V(a)				
Saprolite System (initial): Yes 🗸 No Saprolite Syst						
Fill System (Initial): 🗌 Yes 🗹 No If yes, specify: 🗌 New 🗌						
Fill System (repair): ☐ Yes		hes of fill to system area provide a fill plan)				
Usable Soil Depth (Initial): 24" Usable Soil De	epth (Repair):					
		sured on the downhill side of the trench				
Artificial Drainage Required: Yes Y No If yes, please spe						
Type of Water Supply: Private well Public well S		Spring Other:				
Drainfield location meets requirements of Rule .1945: Yes 🗹	No Drainfield location meets requi	rements of Rule .1950: Yes 🗸 No 🗌				
Permit valid for: Five years [site plan submitted pursuant to	GS 130A-334(13a)] 🗌 No expiration [pla	at submitted pursuant to GS 130A-334(7a)]				
Permit conditions: 8" of Additional Approved Cover material required						
Quick4 Plus Standard Low Profile Chambers to be used						
	SOIL SC					
Licensed Soil Scientist Print Name:Jason Hall	SON M. H	Ser. N.				
Licensed Soil Scientist Signature:	4 S ASUNT ON	Bate: 12/06/2023				
	ursuant to and meets the requirements b					
	attached site sketch*					
In Battania ISI						
NC DEPARTMENT OF HEALTH AND HUMAN SERVICES DIVISION OF PUBLIC HEALTH						
LOCATION: 5605 Six F MAILING ADDRESS: 1632 I	orks Road, Building 3, Raleigh, NC 27609 Mail Service Center, Raleigh, NC 27699-163	20//				
www.ncdhhs.gov •	orks Road, Bullding 3, Raleigh, NC 27609 Mail Service Center, Raleigh, NC 27699-16 TEL: 919-707-3854 AFAX, 919-845-3972	1				
	TUNITY / AFFIRMATIVE ACTION EMPLOYER					



This Section for Local Health Department Use Only

Initial submittal received: ______ by _____

Date Initials

G.S. 130A-335(a3) states the following:

When an applicant for an Improvement Permit submits to a local health department an Improvement Permit application, the permit fee charged by the local health department, the common form developed by the Department, and a soil evaluation pursuant to subsection (a2) of this section, the local health department shall, within five business days of receiving the application, conduct a completeness review of the submittal. A determination of completeness means that the Improvement Permit includes all of the required components. If the local health department determines that the Improvement Permit is incomplete, the local health department shall notify the applicant of the components needed to complete the Improvement Permit. The applicant may submit additional information to the local health department to cure the deficiencies in the Improvement Permit. The local health department shall make a final determination as to whether the Improvement Permit is complete within five business days after the local health department receives the additional information from the applicant. If the local health department fails to act within any period set out in this subsection, the applicant may treat the failure to act as a determination of completeness. The Department shall develop a common form for use as the Improvement Permit.

The review for completeness of this Improvement Permit was conducted in accordance with G.S. 130A-335(a3). This Improvement Permit is determined to be:

Incomplete (If box is checked, information in this section is required.)

The following items are missing:

Copies of this were sent to the LSS and the Appl	icant on		
9510	Date		
State Authorized Agent:		Date:	
Complete			
State Authorized Agent:		Date:	

This Improvement Permit is issued pursuant to G.S. 130A-335 (a2) and (a3) using the signed and sealed LSS/LG evaluation(s) attached here. The issuance of this permit by the Health Department in no way guarantees the issuance of other permits. The permit holder is responsible for checking with appropriate governing bodies in meeting their requirements. This permit is subject to revocation if the site plan, plat, or the intended use changes. The Improvement Permit shall not be affected by a change in ownership of the site. This permit is subject to compliance with the provisions of the Laws and Rules for Sewage Treatment and Disposal and to the conditions of this permit.

The Department, the Department's authorized agents, and the local health departments shall be discharged and released from any liabilities, duties, and responsibilities imposed by statute or in common law from any claim arising out of or attributed to evaluations, submittals, or actions from a licensed soil scientist or licensed geologist pursuant to GS 130A-335(a2).

Improvement Permit Expiration Date: _____

See attached site sketch



Permit #:

	Re-	submittal of Imp	provement Per	mit		
	LHD USE ONLY: This IP re	esubmittal received:	Date	by		
The following i	items are being resubmitted pu	rsuant to G.S. 130A-335	i(a3) for issuance of	the Improvement I	Permit:	
	2	ST.	ATC	5		
is accurate and	Scientist (Print Name) complete to the best of my kn l laws, regulations, rules, and c	nowledge and that the p	t the information rea			
Signatu	re of Licensed Soil Scientist	M ASS		Date	N.	
	The section below is for Loc	al Health Department use	e after submittal of ite	ems noted as missing	g above.	
LHD Follow-	up Completeness Review	v of Improvement P	ermit			
	completeness of this Improver Permit is determined to be:	ment Permit re-submitt	al was conducted in	accordance with C	5.S. 130A-335(a	a3). This
Incomplete	e (If box is checked, informatio	n in this section is requi	red.)			
The following it	tems are missing:					
		-CUAU				

Copies of this were sent to the LSS and the Applicant on _____

State Authorized Agent: _____

Complete

State Authorized Agent: _____

Date:

Date: _____

Date



Central Carolina Soil Consulting, PLLC

1900 South Main Street, Suite 110, Wake Forest, NC 27587 Office Number: 919-569-6704

> December 6, 2023 Job #4760

Elm Street Builders, LLC Attention: Chris Weir 3434 Kildaire Farm Road, Suite 240 Cary, NC 27518

RE: Preliminary soil/site evaluation for single family wastewater approval at 98 Pondhurst Lane, Lot 1 (4-bedroom) in Harnett County pursuant to and meets the requirements of G.S. 130A-335(a2)."

Dear Mr. Weir:

Central Carolina Soil Consulting, PLLC conducted a preliminary soil evaluation on the aforementioned lot to determine the areas of provisionally suitable soils that are suitable for subsurface wastewater disposal systems (conventional, Accepted & Innovative). "The LSS evaluation is being submitted pursuant to and meets the requirements of G.S. 130A-335(a2)." The soil/site evaluation was performed using auger borings and pits in August 2023, under moist soil conditions, based on the criteria found in the State Subsurface Rules, 15ANCAC 18A .1900 "Laws and Rules for Sewage Treatment and Disposal Systems". From this evaluation, CCSC laid out and located the septic layout and gps'd for site plan drawing purposes. Please note that the lot lines must be clearly marked by your surveyor prior to system installation by your installer to verify all setbacks before digging.

The lot is proposed to have a 4-bedroom system for the house. A septic system field layout was completed based on the house location and property lines surveyed in the field.

The proposed Initial system for the house is a Pressure Manifold distribution using lines 2-6 totaling 662 feet of Quick4 Plus Standard Low Profile Chambers product. The repair system for the house is a Pressure Manifold distribution using lines 1 & 7-10 totaling 659 feet of Quick4 Plus Standard Low Profile Chambers product. The septic and pump tanks for the house should be minimum 1,500 gallons with risers. The septic and pump tanks should also have pressed in rubber boots on both the inlets and the outlets of the tank.

Based on the findings during the field evaluation, the area on the attached map has at least 24 inches (initial) and 24 inches (repair) of provisionally suitable soils for a modified conventional septic system. The assigned LTAR for the site is 0.25 gal/day/ft² with a maximum depth of 8 inches with 8" of additional cover material for the initial system installation of the drain lines due to slope correction. The assigned LTAR for the site is 0.25 gal/day/ft² with a maximum depth of 8 inches with 8" of additional cover material for the site is 0.25 gal/day/ft² with a maximum depth of 8 inches due to slope correction. The assigned LTAR for the site is 0.25 gal/day/ft² with a maximum depth of 8 inches with 8" of additional cover material for the repair system installation of the drain lines due to slope correction.

Septic Installation:

The septic system for the lot should be installed during dry soil conditions (no rain events within 72 hours). The septic system should be installed on contour while maintaining all required setbacks. Lot lines must be clearly marked by your surveyor prior to system installation so your installer can verify all setbacks before digging.

Setbacks: (see septic design page for locations)

- Septic and Pump Tanks (see septic design)
 - o 10' minimum from property lines
 - \circ 5' minimum from house
- Septic Lines (see septic design)
 - \circ 10' minimum from property lines
 - o 5' minimum from house
- Manifold's and D-Box's (see septic design)
 - o 10' minimum from property lines
- Supply Lines (see septic design)
 - o 5' minimum from property lines

Grading:

No grading should be completed within the initial and repair septic areas that change the natural grade of the area. There should be no cutting or filling within the septic areas as well. When grading the lot, no cuts of 2' or greater should be within 15' of the septic areas. If a cut is required near the septic area, keep the cut around 6-8 inches in depth.

HOUSE:

- Initial System: Pressure Manifold Distribution, lines 2-6 totaling 662' (see layout)
- Repair System: Pressure Manifold Distribution, lines 1 & 7-10 totaling 659' (see layout)
- 480 gal/day flow rate (4-bedroom)
- 1,500 gallon septic and pump tanks with risers and pressed in rubber boots on both the inlet and outlet ends
- 8" max trench depth with 8" of additional cover material for Initial System
- 8" max trench depth with 8" of additional cover material for Repair System
- 0.25 LTAR for Initial
- 0.25 LTAR for Repair
- No grading/filling septic areas
- No cuts >2' within 15' of septic areas
- Keep tanks and drain lines 10' from property lines
- Keep supply line >5' property lines
- Install in dry soil conditions (No rain events within 72 hours)
- Maintain natural contours when clearing the lot

This letter discusses the location of provisionally suitable soils for subsurface wastewater disposal systems and does not guarantee the future function of any wastewater system on sites. Central Carolina Soil Consulting, PLLC is a professional consulting firm specializing in soil delineations and designs for on-site wastewater disposal systems.

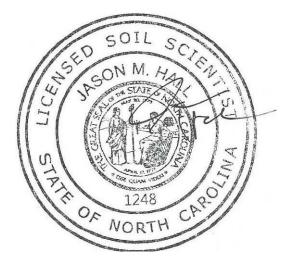
If you have any questions regarding the findings on the attached map or in this report, please feel free to contact me at any time. Thank you for allowing Central Carolina Soil Consulting to perform this site evaluation for you.

Sincerely,

Hall

Jason Hall NC Licensed Soil Scientist #1248 AOWE certification number 10004E

Encl: Soil Map & septic layout



CCSC SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

Sheet: Property ID: <u>0634-81-6092</u> Lot #: <u>1</u> File #: AppID:

Owner:				Appl	icant:
Address:				Date Eva	luated: <u>November 2023</u>
Proposed Facility:	<u>4-Bedrooom</u>	Design Flow (.1949)	<u>480 gal/day</u>	Propert	y Size:
Location of Site:	<u>98 Pondhurst Lane, Fuqu</u>	ay-Varina, NC 27526 (Lot ´		Property Rec	corded:
Water Supply:	[X] Public	[] Individual	[]Well	[] Spring	[] Other
Evaluation Method:	[] Auger Boring		[X] Pit	[]Cut	
Type of Wastewater:	[X] Sewage		[] Industrial Process	[] Mixed	

P R O F			SOIL N	NORPHOLOGY .1941		b _E FACTO	RS		
I L E #	.1940 Landscape Position/ Slope%	Horizon Depth (IN.)	.1941 Texture/ Structure	.1941 Consistence Mineralogy	.1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr Horiz	Profile Class & LTAR
1	LS, ~9%	A, 0-3	SL, GR	VFR, NS, NP					
		B, 3-32	SL, GR	VFR, NS, NP		PS			PS, 0.4
		Bt1, 32-40	CL, SBK	FR, SS, SP, SEXP		PS			PS, 0.35
		Bt2, 40-48	CL, SBK	FR, SS, SP, SEXP	10YR 7/2	UN			UN
2	LS, ~10%	A, 0-3	SL, GR	VFR, NS, NP					
		B, 3-13	SL, GR	VFR, NS, NP					
		Bt1, 13-20	CL, SBK	FR, SS, SP, SEXP		PS			PS, 0.3
		Bt2, 20-31	C, SBK	FI, SS, SP, SEXP		PS			PS, 0.25
		Bt3, 31-48	C, SBK	FI, SS, SP, SEXP	10YR 7/2	UN			UN
3	LS, ~9%	A, 0-3	SL, GR	VFR, NS, NP					
		B, 3-13	SL, GR	VFR, NS, NP					
		Bt1, 13-24	C, SBK	FI, SS, SP, SEXP		PS			PS, 0.25
		Bt2, 24-42	C, SBK	VFI, SS, SP, SEXP	10YR 7/2	UN			UN

Description	Initial System	Repair System	
Available Space (.1945)	Yes	Yes	
System Type(s)	IIIB	IIIB	
Site LTAR	0.25	0.25	

Other Factors (.1946):

Soil Evaluation By: Jason Hall

Others Present: James Rice

Site Classification (.1948): Provisionally Suitable

Site Evaluation By: Jason Hall, James Rice Others Present:

COMMENTS:

R-Ridge I S-Sand 1.2 - 0.8 SG-Single Grain SS-Shoulder Slope LS-Loamy Sand M-Massive CR-Crumb FS-Foot Slope II SL-Sandy Loam 0.8 - 0.6 GR-Granular NS-Nose Slope II SL-Sandy Loam 0.8 - 0.6 GR-Granular NS-Nose Slope II SL-Sandy Loam 0.6 - 0.3 GR-Granular VS-Nose Slope III SI-Silt 0.6 - 0.3 PL-Platy CC-Concave Slope III SI-Silt Olay 0.6 - 0.3 PL-Platy CV-Convex Slope III SI-Silt Olay 0.6 - 0.1 PR-Prismatic T-Terrace Loam SCL-Sandy Clay 0.4 - 0.1 SIC-Silty Clay PR-Prismatic FP-Flood Plain Cl-Clay Loam SIC-Silty Clay SEXP-Slightly Expansive FVE VER-Very Friable NS-Non-Sticky SEXP-Slightly Expansive FVE FI-Fitable FR-Friable SS-Slightly Sticky FI-Fitam S-Stick FI-Fitam FILE VFI-Very Firm VS-Very Sticky FILE FILE FILE FILE VFI-Very Firm VS-Very	Landscape Position	Group	<u>Texture</u>	<u>.1955 LTAR</u>	Structure
LS-Linear Slope II SL-Sandy Loam 0.8 - 0.6 GR-Granular NS-Nose Slope II SL-Sandy Loam 0.8 - 0.6 GR-Granular NS-Nose Slope L-Loam SBK-Subangular Blocky HS-Head Slope III SI-Silt 0.6 - 0.3 PL-Platy CC-Concave Slope III SI-Silt 0.6 - 0.3 PL-Platy CV-Convex Slope SICL-Silty Clay T-Terrace Loam PR-Prismatic FP-Flood Plain CL-Clay Loam SCL-Sandy Clay Loam IV SC-Sandy Clay Loam IV SC-Sandy Clay C-Clay 0.4 - 0.1 SIC-Silty Clay C-Clay SEXP-Slightly Expansive VFR-Very Friable NS-Non-Sticky EXP-Slightly Expansive VFR-Very Friable NS-Non-Sticky EXP-Expansive FR-Friable SS-Slightly Sticky FI-Firm S-Sticky EXP-Expansive VFI-Very Firm VS-Very Sticky EFI-Extremely Firm NP-Non-Plastic SP-Slightly Plastic	R-Ridge	I	S-Sand	1.2 - 0.8	SG-Single Grain
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FR-Friable SS-Slightly Sticky FI-Firm S-Sticky VFI-Very Firm VS-Very Sticky EFI-Extremely Firm NP-Non-Plastic SP-Slightly Plastic SP-Slightly Plastic	<u>Moist</u>	Wet		SEXP-Slightly Expansive	
FI-Firm S-Sticky VFI-Very Firm VS-Very Sticky EFI-Extremely Firm NP-Non-Plastic SP-Slightly Plastic	VFR-Very Friable	NS-Non-	Sticky	EXP-Expansive	
VFI-Very Firm VS-Very Sticky EFI-Extremely Firm NP-Non-Plastic SP-Slightly Plastic	FR-Friable	SS-Sligh	tly Sticky		
EFI-Extremely Firm NP-Non-Plastic SP-Slightly Plastic	FI-Firm	S-Sticky			
SP-Slightly Plastic	VFI-Very Firm	VS-Very	Sticky		
	EFI-Extremely Firm	NP-Non-	Plastic		
P-Plastic		SP-Sligh	tly Plastic		
		P-Plastic			

VP-Very Plastic

Sketch of Soil Evaluation Locations

