

Central Carolina Soil Consulting, PLLC

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.	for122 Pondhurst Lane, Lot 2 (PIN: 0634-81-5074)
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 #:	



ROY COOPER • Governor

KODY H. KINSLEY • Secretary

MARK BENTON • Deputy Secretary for Health

SUSAN KANSAGRA • Assistant Secretary for Public Health

Division of Public Health

Submittal Includes:	✓ (a2) Improvement Permit ✓ (a2) Construction Authorization ☐ Fee \$
	IMPROVEMENT PERMIT FOR G.S. 130A-335(a2)
County:	Harnett
PIN/Lot Identifier:	0634-81-5074
Issued To:	Elm Street Builders, LLC
Property Location:	122 Pondhurst Lane, Fuquay-Varina, NC 27526
	e) Pondhurst Lot #: 2 Block: Section:
LSS Report Provided: Ye	es 🗸 No 🗌
If yes, name and license	number of LSS: Jason Hall, NC LSS #1248
New ✓	Expansion System Relocation Change of Use
Proposed Structure:	Single Family, 3-Bedroom
Number of bedrooms: _	Number of Occupants: ≤ 6 Other:
Design Wastewater Stre	ength: 🗸 domestic 🔲 high strength 🔲 industrial process
Proposed Design Daily F	low: 360 GPD Proposed LTAR (Initial): 0.25 Proposed LTAR (Repair): 0.25
Proposed Wastewater S	System Type*: IIIB, pressure manifold (LPC) (Initial) Pump Required: Ves No May be required
Proposed Wastewater S	System Type*: IIIB, pressure manifold (LPC) (Repair) Pump Required: 🗹 Yes 🗌 No 📋 May be required
*Please include system	classification for proposed wastewater system types in accordance with 15A NCAC 18A .1961 Table V(a)
Saprolite System (initial)	: Yes V No Saprolite System (repair): Yes V No
Fill System (Initial):	Yes 📝 No If yes, specify: 🗌 New 📗 Existing (when adding more than 6 inches of fill to system area provide a fill plan)
Fill System (repair):	Yes 📝 No If yes, specify: 🗌 New 📗 Existing (when adding more than 6 inches of fill to system area provide a fill plan
Usable Soil Depth (Initia	ıl):26" Usable Soil Depth (Repair):26"
Max. Trench Depth (Init	ial)*: 11" Max. Trench Depth (Repair)*: 11" *Measured on the downhill side of the trench
Artificial Drainage Requ	ired: Yes V No If yes, please specify details:
Type of Water Supply: [Private well Public well Shared well Municipal Supply Spring Other:
Drainfield location mee	ts requirements of Rule .1945: Yes 🗸 No 🗌 Drainfield location meets requirements of Rule .1950: Yes 🗸 No 🗌
Permit valid for: 🗹 Five	e years [site plan submitted pursuant to GS 130A-334(13a)] 🔲 No expiration [plat submitted pursuant to GS 130A-334(7a)]
Permit conditions:	
5" of Additional Approved Co Quick4 Plus Standard Low F	
Quioter las standard Esw l	SOILS
	rint Namo: Jason Hall
Licensed Soil Scientist Pr	10/07/0000
Licensed Soil Scientist Si	Bridge
'	he LSS evaluation is being submitted pursuant to and meets the requirements of 6.5: 130A 335(a2). *See attached site skerch*

NC DEPARTMENT OF HEALTH AND HUMAN SERVICES DIVISION OF PUBLIC HEALTH

LOCATION: 5605 Six Forks Road, Building 3, Raleigh, NC 27609
MAILING ADDRESS: 1632 Mail Service Center, Raleigh, NC 27699-16
www.ncdhhs.gov • TEL: 919-707, 5854 • FAX: 919-845-3972

AN EQUAL OPPORTUNITY / AFFIRMATIVE ACTION



Permit #:	

This Section for Local Health Department Use Only

Initial submittal received:	: Date	by Initials	
G.S. 130A-335(a3) states the following:			
When an applicant for an Improvement Permit submits to a local health de department, the common form developed by the Department, and a soil eventhin five business days of receiving the application, conduct a completen Permit includes all of the required components. If the local health departmental includes all of the components needed to complete the Improduced for the deficiencies in the Improvement Permit. The local has scomplete within five business days after the local health department received within any period set out in this subsection, the applicant may treat the common form for use as the Improvement Permit.	valuation pursuant to sub ess review of the submitt ent determines that the I ovement Permit. The app health department shall n eives the additional infor	osection (a2) of this section, the local health department al. A determination of completeness means that the Imp Improvement Permit is incomplete, the local health depolicant may submit additional information to the local he nake a final determination as to whether the Improvem mation from the applicant. If the local health departme	t shall, provement artment alth ent Permit nt fails to
The review for completeness of this Improvement Permit we Permit is determined to be:	as conducted in acc	ordance with G.S. 130A-335(a3). This Impro	vement
☐ Incomplete (If box is checked, information in this section	on is required.)		
The following items are missing:			
	1 5		
Copies of this were sent to the LSS and the Applicant on	Date		
State Authorized Agent:		Date:	_
☐ Complete	6		
State Authorized Agent:	1-1/15	Date:	_
This Improvement Permit is issued pursuant to G.S. 130A-attached here. The issuance of this permit by the Health Dermit holder is responsible for checking with appropriate	Department in no w	ay guarantees the issuance of other permit	s. The
to revocation if the site plan, plat, or the intended use cha bwnership of the site. This permit is subject to compliance Disposal and to the conditions of this permit. The Department, the Department's authorized agents, and any liabilities, duties, and responsibilities imposed by stat	inges. The Improve e with the provision d the local health de ute or in common la	ment Permit shall not be affected by a char is of the Laws and Rules for Sewage Treatm epartments shall be discharged and released aw from any claim arising out of or attribute	nge in ent and
co revocation if the site plan, plat, or the intended use charbonness of the site. This permit is subject to compliance Disposal and to the conditions of this permit. The Department, the Department's authorized agents, and any liabilities, duties, and responsibilities imposed by state evaluations, submittals, or actions from a licensed soil science.	anges. The Improve e with the provision d the local health de ute or in common la entist or licensed ge	ment Permit shall not be affected by a char is of the Laws and Rules for Sewage Treatm epartments shall be discharged and released aw from any claim arising out of or attribute	nge in ent and
to revocation if the site plan, plat, or the intended use cha bwnership of the site. This permit is subject to compliance Disposal and to the conditions of this permit. The Department, the Department's authorized agents, and any liabilities, duties, and responsibilities imposed by stat	anges. The Improve e with the provision d the local health de ute or in common la entist or licensed ge	ment Permit shall not be affected by a char is of the Laws and Rules for Sewage Treatm epartments shall be discharged and released aw from any claim arising out of or attribute	nge in ent and

See attached site sketch



Permit #:	

Re-submittal of Improvement Permit

				\neg
	LHD USE ONLY: This IP resubmittal received:	Date	by britials	
The following it	tems are being resubmitted pursuant to G.S. 130A-335((a3) for issuance	of the Improvement Permit:	
	22222			
	STA	Trib	A.	
	OF THE SE	THE OF	A. A.	
is accurate and	hereby attest that consist (Print Name) complete to the best of my knowledge and that the pr laws, regulations, rules, and ordinances.		required to be included with	
Signatur	e of Licensed Soil Scientist		Date	
	The section below is for Local Health Department use o	after submittal of	items noted as missing above.	
LHD Follow-u	up Completeness Review of Improvement Pe	ermit		
	completeness of this Improvement Permit re-submittal ermit is determined to be:	l was conducted	in accordance with G.S. 130)A-335(a3). This
☐ Incomplete	(If box is checked, information in this section is require	ed.)		
The following ite	ems are missing:			
Copies of this w	ere sent to the LSS and the Applicant on			
State Authorized	d Agent:		Date:	
☐ Complete				
State Authorized	d Agent:		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 122 Pondhurst Lane, Lot 2 (3-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 3-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 486 feet of Quick4 Plus Standard Low Profile Chambers product. The repair system for the house is a Pressure Manifold distribution using lines 7-11 totaling 514 feet of Quick4 Plus Standard Low Profile Chambers product. The septic and pump tanks for the house should be minimum 1,000 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 26 inches (initial) and 26 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 11 inches with 5" 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 11 inches with 5" 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
 - o 5' minimum from house
- Septic Lines (see septic design)
 - o 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 486' (see layout)
- Repair System: Pressure Manifold Distribution, lines 7-11 totaling 514' (see layout)
- 360 gal/day flow rate (3-bedroom)
- 1,000 gallon septic and pump tanks with risers and pressed in rubber boots on both the inlet and outlet ends
- 11" max trench depth with 5" of additional cover material for Initial System
- 11" max trench depth with 5" 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.

1248

NORTH

OF

Sincerely,

Jason Hall

NC Licensed Soil Scientist #1248 AOWE certification number 10004E

Encl: Soil Map & septic layout

Sheet:

Property ID: <u>0634-81-5074</u>

Lot #: 2 File #: AppID:

CCSC SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

Owner: Applicant:

Address: Date Evaluated: November 2023

Proposed Facility: 3-Bedrooom Design Flow (.1949) 360 gal/day Property Size:

Location of Site: 122 Pondhurst Lane, Fuquay-Varina, NC 27526 (Lot 2) Property Recorded:

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	MORPHOLOGY .1941		b E FACTO	RS		
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, ~6%	A, 0-3	SL, GR	VFR, NS, NP					
		B, 3-13	SL, GR	VFR, NS, NP					
		Bt1, 13-26	C, SBK	FI, SS, SP, SEXP		PS			PS, 0.25
		Bt2, 26-50	C, SBK	VFI, SS, SP, SEXP	10YR 7/2	UN			UN
2	LS, ~6%	A, 0-3	SL, GR	VFR, NS, NP					
		B, 3-14	SL, GR	VFR, NS, NP					
		Bt1, 14-25	SCL, SBK	FR, SS, SP, SEXP		PS			PS, 0.35
		Bt2, 25-39	C, SBK	FI, SS, SP, SEXP		PS			PS, 0.3
		Bt3, 39-43	C, SBK	FI, SS, SP, SEXP	10YR 7/2	UN			UN
3	LS, ~5%	A, 0-3	SL, GR	VFR, NS, NP					
		B, 3-12	SL, GR	VFR, NS, NP					
		Bt1, 12-26	C, SBK	FI, SS, SP, SEXP		PS			PS, 0.275
		Bt2, 26-45	C, SBK	FI, 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: <u>James Rice</u>

Site Classification (.1948): Provisionally Suitable

Site Evaluation By: Jason Hall, James Rice

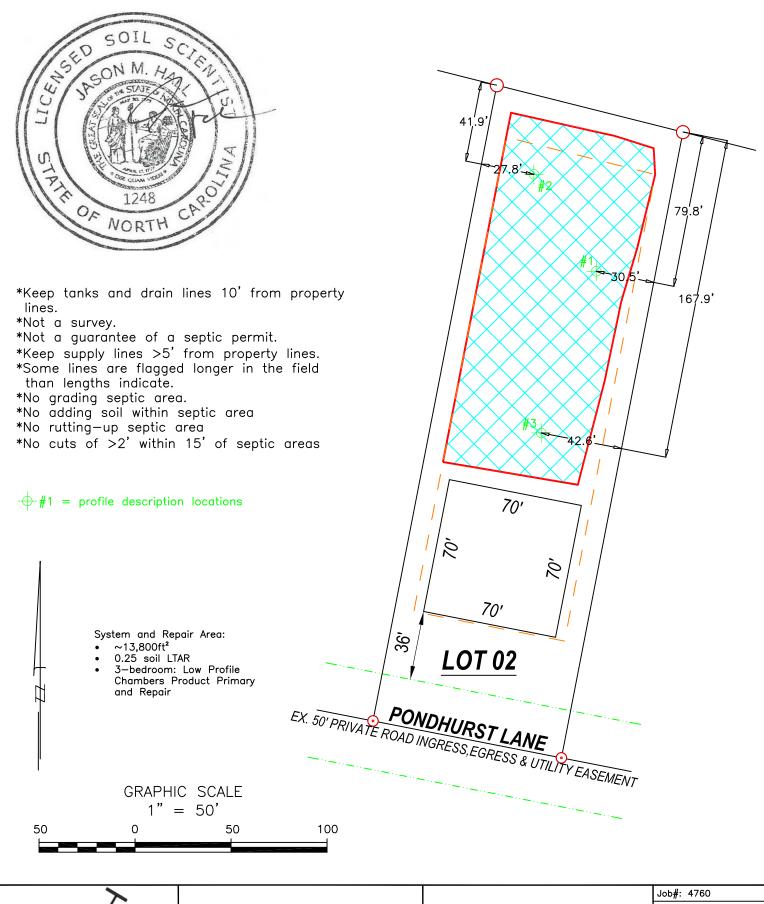
Others Present:

COMMENTS: FILE #:

Landscape Position	Group	<u>Texture</u>	.1955 LTAR	Structure
R-Ridge	1	S-Sand	1.2 - 0.8	SG-Single Grain
SS-Shoulder Slope		LS-Loamy Sand		M-Massive
LS-Linear Slope				CR-Crumb
FS-Foot Slope	II	SL-Sandy Loam	0.8 - 0.6	GR-Granular
NS-Nose Slope		L-Loam		SBK-Subangular Blocky
HS-Head Slope				ABK-Angular Blocky
CC-Concave Slope	III	SI-Silt	0.6 - 0.3	PL-Platy
CV-Convex Slope		SICL-Silty Clay		PR-Prismatic
T-Terrace		Loam		
FP-Flood Plain		CL-Clay Loam		
		SCL-Sandy Clay Loam		
	IV	SC-Sandy Clay	0.4 - 0.1	
		SIC-Silty Clay	0.1 0.1	
		C-Clay		
		C C,		

Consistence	Consistence	<u>Mineralogy</u>
<u>Moist</u>	Wet	SEXP-Slightly Expansive
VFR-Very Friable	NS-Non-Sticky	EXP-Expansive
FR-Friable	SS-Slightly Sticky	
FI-Firm	S-Sticky	
VFI-Very Firm	VS-Very Sticky	
EFI-Extremely Firm	NP-Non-Plastic	
	SP-Slightly Plastic	
	P-Plastic	
	VP-Very Plastic	

Sketch of Soil Evaluation Locations





Central Carolina Soil Consulting, PLLC 1900 South Main Street, Suite 110 Wake Forest, North Carolina 27587 Phone (919)569-6704 Fax (919)569-6703

Soils Map Lot 2, 122 Pondhurst Lane Harnett County, North Carolina Drawn By: JR

Date: 12/05/2023

Revision: