



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 Fee \$
	IMPROVEMENT PERMIT FOR G.S. 130A-335(a2)
County:	Harnett
PIN/Lot Identifier:	0643-37-2222
	Halcyon Homes, LLC
Property Location:	240 DEED TAIL IN CHOUNT VARINA NO 27526
	ole) Cotton Farms Lot #: 45 Block: Section:
LSS Report Provided: 1	
If yes, name and licens	se number of LSS: Jason Hall, NC LSS #1248
New 🗸	Expansion System Relocation Change of Use Single Family Dwelling 4 Redroom
Facility Type:	4 Number of Occupants: S8 Other:
Design Wastewater St Proposed Design Daily Proposed Wastewater Proposed Wastewater *Please include system Effluent Standard: Saprolite System (Initial): Fill System (Repair): Usable Depth to LC (In Max. Trench Depth (In	rength: Domestic
	Private well Public well Shared well Municipal Supply Spring Other:
	ets requirements of Rule .0508: Yes 🗸 No 🗌 Drainfield location meets requirements of Rule .0601: Yes 📝 No
	ve years [site plan submitted pursuant to GS 130A-334(13a)] 🔲 No expiration [plat submitted pursuant to GS 130A-334(7a)]
6" of additional cover m Licensed Soil Scientist Licensed Soil Scientist	The LSS evaluation is being submitted pulsuant to and meets the requirements of 6.5. 130A-335(a2). *See attached site sketch*
NCDHHS/DPH/EHS/OSWI	OF NORTH CA Revised January 2024 Form AZCF-24.1



Permit/File #: 0503-0109

This Section for Local Health Department Use Only

Initial submittal received: 3-19-25 by RC

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 is incomplete, the local health department 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 aut 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.

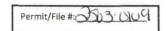
The review for completeness of this Improvement Permit was conducted in accordance with G.S. 130A-335(a3). This Improvement Permit is determined to be: ☐ Incomplete (If box is checked, information in this section is required.) The following items are missing: Copies of this were sent to the LSS and the Applicant on _ State Authorized Agent: Date: Complete hal AENS Date: 3-25.25 State Authorized Agent: 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 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 15A NCAC 18E 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

See attached site sketch

evaluations, submittals, or actions from a licensed soil scientist or licensed geologist pursuant to GS 130A-335(a2).

Improvement Permit Expiration Date: 3 - 25 - 39





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

	CONTRACTOR
County:	Harnett Pre-Construction Conference Required: Yes No 🗸
PIN/Lot Identifier:	0643-37-2222
Issued To:	Halcyon Homes, LLC
Property Location:	249 DEER TAIL LN FUQUAY-VARINA, NC 27526 (Cotton Farms, Lot 45)
	tions Provided: Yes 🗸 No 🗌 If yes, name and license number of AOWE/PE: Jason Hall, AOWE #10004E
Facility Type:	Single-Family Dwelling, 4-Bedroom
Number of bedrooms:	4 Number of Occupants: ≤8 Other:
✓ New	Expansion Repair System Relocation Change of Use
Basement?	Yes No Basement Fixtures? Yes No
	Yes No Slab Foundation? Yes No
Type of Wastewater Sy	stem*IIIg, LPC(Initial)(Repair)
*Please include system	classification for proposed wastewater system types in accordance with Rule .1301 Table XXXII
Design Daily Flow:	360 GPD Wastewater Strength: ✓ Domestic ☐ High Strength ☐ Industrial Process WW
	section 53, Engineering Design Utilizing Low-flow Fixtures and Low-flow Technologies? Yes No ngineering documentation)
Effluent Standard:	DSE HSE NSF/ANSI 40 TS-I TS-II RCW
Type of Water Supply:	Private well Public well Shared well Municipal Supply Spring Other:
Installation Requireme	nts/Conditions
Septic Tank Size: 10	00 gallons Total Trench/Bed Length: 450 feet Trench/Bed Spacing: 9 feet on center
Trench/Bed Width:	36 inches LTAR: 0.275 gpd/ft ² Usable Depth to LC (Initial) ³ : 32" *Limiting condition
	4 inches Slope Corrected Maximum Trench/Bed Depth [‡] : 12 inches [‡] Measured on the downhill side of the trench
	icable):gallons Requires more than 1 pump? Yes No
	ft, TDH vs GPM Grease Trap Size (if applicable): gallons
Distribution Method: [Serial O-Box or Parallel Pressure Manifold(s) LPP Other:
	ired: Yes No 🗸 If yes, please specify details:
Legal Agreements (If the	ne answer is "Yes" to any type of legal agreements, please attach a copy of the agreement.)
Multi-party Agreement	Required [.0204(g)]: Yes No Declaration of Restrictive Covenants: Yes No
Easement, Right-of-Wa	y, or Encroachment Agreement Required [.0301(b)]: Yes No
Management Entity Re	quired: Yes V No Minimum O&M Requirements:
Permit conditions: 4" of additional cover ma	nterial needed over the entire initial septic area
fence off the entire septi	area from construction traffic
The requirements of 1	5A NCAC 18E are incorporated by 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 of with the provisions of	tion shall not be affected by a change in ownership of the site. This Construction Authorization is subject to compliance 15A NCAC 18E, or 15A NCAC 18A .1900, as applicable, and to the conditions of this permit.
	WAS IN
AOWE/PE Print Name:	09/45/2024
AOWE/PE Signature:	Date:
	This AOWE/PE submittal is pursuant to and meets the requirements of G.S. 130A-335(a2) and (a) 10004 = 7
	See attached site sketch
NCDHHS/DPH/EHS/OSWP	4 April 1988 and 1987 2024





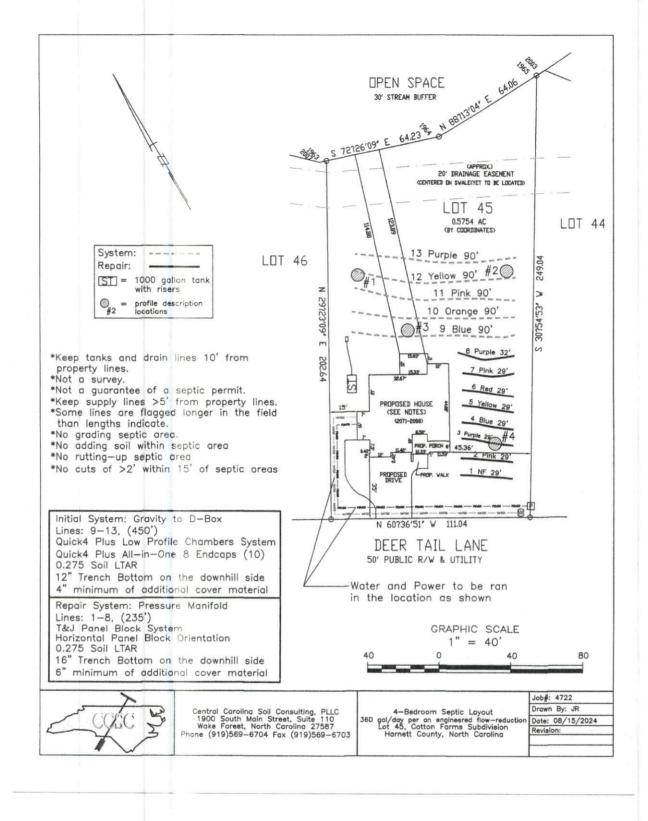
This Section for Local Health Department Use Only

Initial submittal received 3 19 25 by 10 Initials

G.S. 130A-335(a5) states the following:

When an applicant for a Construction Authorization, or an Improvement Permit and Construction Authorization together, submits a Construction Authorization, or an Improvement Permit and Construction Authorization application together, the permit fee charged by the local health department, the common form developed by the Department, and any necessary signed and sealed plans or evaluations conducted by a person licensed pursuant to Chapter 89C of the General Statutes as a licensed engineer or a person certified pursuant to Article 5 of Chapter 90A of the General Statutes as an Authorized On-Site Wastewater Evaluator, 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 Construction Authorization or Improvement Permit and Construction Authorization includes all of the required components, if the local health department determines that the Construction Authorization or Improvement Permit and Construction Authorization is incomplete, the local health department shall notify the applicant of the components needed to complete the Construction Authorization or Improvement Permit and Construction Authorization. The applicant may submit additional information to the local health department to cure the deficiencies in the Construction Authorization or Improvement Permit and Construction Authorization. The local health department shall make a final determination as to whether the Construction Authorization or Improvement Permit and Construction Authorization 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 applicant may apply for the building permit for the project upon the decision of completeness of the Construction Authorization or Improvement Permit and Construction Authorization by the local health department or if the local health department fails to act within five business days. The Authorized On-Site Wastewater Evaluator or licensed engineer submitting the evaluation pursuant to this subsection may request that the local health department revoke or suspend the Construction Authorization or Improvement Permit and Construction Authorization for cause. Upon written request of the Authorized On-Site Wastewater Evaluator or licensed engineer, the local health department shall suspend or revoke the Construction Authorization or Improvement Permit and Construction Authorization pursuant to G.S. 130A-23. The Department shall develop a common form for use as the Construction Authorization.

The review for completeness of this Construction Authorizatio	n was conducted in accordance with G.S. 130A-335(a5). This
Construction Authorization is determined to be:	
☐ Incomplete (If box is checked, information in this section i	s required.)
The following items are missing:	
Copies of this were sent to the AOWE/PE and the Applicant or	Date
State Authorized Agent:	
Complete	
State Authorized Agent:	EHG Date of Issuance: 3 - 25 - 25
attached here. This Construction Authorization is subject to a Construction Authorization shall not be affected by a change to compliance with the provisions of the Laws and Rules for State Compliance.	OA-335(a2) and (a5) using the signed and sealed plans or evaluations revocation if the site plan, plat, or the intended use changes. The in ownership of the site. This Construction Authorization is subject Sewage Treatment and Disposal and to the conditions of this permit.
any liabilities, duties, and responsibilities imposed by statute plans, evaluations, preconstruction conference findings, subthe General Statutes as a licensed engineer or a person certif Authorized On-Site Wastewater Evaluator in GS 130A-335(a2	he local health departments shall be discharged and released from e or in common law from any claim arising out of or attributed to mittals, or actions from a person licensed pursuant to Chapter 89C of fied pursuant to Article 5 of Chapter 90A of the General Statutes as an el), (a5), and (a7). The Department, the Department's authorized e and bear liability for their actions and evaluations and other the operations permit pursuant to GS 130A-337.
Construction Authorization Expiration Date: 3	25-30
See atta	ched site sketch



Cotton Farms, Lot 45 Initial System TAP CHART

Bench Mari	c	is = 100.00	Location of	BM:				Elevation Head:	-93.60
Pump tank	elev.		100.00	Pump elev.	94.60			Manifold elevation:	1.00
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR

	total feet =	0	gal/min =	0	LTAR =	0.3000
					LTAR + %5	0.3150
% of Dose Volume	75	Des. Flow	360		(Itar W/ INOV)	0.4000
Dose Volume	0.00	Pump Run=	#DIV/01		(Itar W/ INOV + 5%)	0.4200
Dose Pump Time	#DIV/0!	Tank Gal/IN	20			
Deputation in Inches	0.00					

Cotton Farms, Lot 45 T&J Panel Block Repair System, TAP CHART

Bench Mark	C:	Is = 100.00	Location of	f BM:				Elevation Head:	5.30			
Pump tank	elev.		100.00	Pump elev.	94.60			Manifold elevation:	99.90		Spacing of	Feet of
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR	# of Panels	Panels (in)	1.5in PVC
1	NF	1.10	98.90	29	1/2in SCH 80	5.48	45.00	87	0.5172	7	3.3	24
2	Pink	2.30	97.70	29	1/2in SCH 80	5.48	45.00	87	0.5172	7	3.3	24
3	Purple	3.40	96.60	29	1/2in SCH 80	5.48	45.00	87	0.5172	7	3.3	24
4	Blue	4.40	95.60	29	1/2in SCH 80	5.48	45.00	87	0.5172	7	3.3	24
5	Yellow	5.10	94.90	29	1/2in SCH 80	5.48	45.00	87	0.5172	7	3.3	24
6	Red	5.70	94.30	29	1/2in SCH 80	5.48	45.00	87	0.5172	7	3.3	24
7	Pink	6.30	93.70	29	1/2in SCH 80	5.48	45.00	87	0.5172	7	3.3	24
8	Purple	7.00	93.00	32	1/2in SCH 80	5.48	45.00	96	0.4688	7	7.8	24

	total feet =	235	gal/min =	43.84	Total Number o	f Panels: 56 I Block Orientation:	Horizontal
					LTAR =	0.2750	
% of Dose Vol.	0	Des. Flow	360		LTAR + %5	0.2888	
Dose Volume	201.60	Pump Run=	8.21		(Itar W/ INOV)	0.5500	
Dose Pump Time	4.60	Tank Gal/IN	20		(Itar W/ INOV + 5%)	0.5775	
Drawdown in Inches	10.08						
		Backfill Sa	and Needed:	40 tons		Total Footage of 1.5	in PVC: 192
	b	ackfill sand n	eeded +5%:	42 tons			