

**HARNETT COUNTY ENVIROMENTAL HEALTH**

File/Permit #: SFD2505-0194

CDP #:

IMPROVEMENT PERMIT (IP)☒ New☐ Expansion☐ Repair☐ System Relocation☐ Change of Use

Owner: HHHunt Homes

Applicant: Mitchell Scott

Property Location: 872 MAGNOLIA ACRES LN FUQUAY-VARINA, NC 27526

PIN/Lot Identifier: 0633-02-2902.000

Subdivision: Magnolia Acres

Lot #: 17 Block: Section:

Facility Type: SFD 39.5' x 39.5' Number of bedrooms: 4 Number of Occupants: 8 Other:

Design Daily Flow: 480 GPD LTAR (Initial): .3 gpd/ft² LTAR (Repair): .3 gpd/ft²

Wastewater System Type: 50% Reduction System (Initial)

Pump Required: ☒ Yes ☐ No ☐ May be required Usable Depth to Limiting Condition (Initial): 40"

Wastewater System Type: 50% Reduction System (Repair)

Pump Required: ☒ Yes ☐ No ☐ May be required Usable Depth to Limiting Condition (Repair): 40"Effluent Standard: ☒ DSE ☐ HSE ☐ Other: Type of Water Supply: ☐ Private well ☒ Municipal Supply ☐ Other:**Permit conditions:**No Foundation or Gutter Drains Directed Towards Septic System
No Cutting or Grading of Soil in Septic or Septic Repair Area.

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.

Authorized Agent's Printed Name: Ren Levocz

Date: 06/25/2025

Authorized Agent's Signature: *Ren Levocz*

Expiration Date: 06/25/2030

CONSTRUCTION AUTHORIZATION (CA)☒ New☐ Expansion☐ Repair☐ System Relocation☐ Change of Use

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Wastewater System Type: 50% Reduction System T&J

Pump Required: ☒ Yes ☐ No ☐ May be required

Septic Tank Size: 1,000 gallons Total Trench Length: 268' feet Trench Spacing: 9' feet on center

Pump Tank Size: 1,000 gallons Maximum Trench Depth: 18"-26" inches Soil Cover: 6" inches

Trench Width: 36" inches Distribution Method: ☐ Serial ☐ D-Box or Parallel ☒ Pressure Manifold ☐ Other: 4-67' LinesArtificial Drainage Required: Yes ☐ No ☒ If yes, please specify details:Management Entity Required: ☐ Yes ☒ No Minimum O&M Requirements:**Permit conditions:**No Foundation or Gutter Drains Directed Towards Septic System
No Cutting or Grading of Soil in Septic or Septic Repair Area.

The requirements of 15A 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 shall not be affected by a change in ownership of the site. This Construction Authorization is subject to compliance with the provisions of 15A NCAC 18E, or 15A NCAC 18A .1900, as applicable, and to the conditions of this permit.

Authorized Agent's Printed Name: Ren Levocz

Date: 06/25/25

Authorized Agent's Signature: *Ren Levocz*

Expiration Date: 06/25/2030

Owner/Legal Representative Signature:

Date:

***See attached site sketch**

Harnett County Environmental Health

SITE SKETCH

PIN 0633-02-2902.000

Permit Number SFD2505-0194

Mitchell Scott

Magnolia Acres Lot 17

Applicant's Name

Subdivision/Section/Lot Number

Ren Levocz

06/25/2025

Authorized State Agent

Date

System components represent approximate contours only. The contractor must flag the system prior to beginning the installation to ensure that the proper grade is maintained.

Scale = NTS

*Follow Consultants Layout

4-Bedroom
 LTAR: 0.3 gpd/ft²
 Initial: Pump-to-PPBPS utilizing
 lines 5-8 (268')
 Repair: Pump-to-PPBPS utilizing
 lines 1-4 (268')



Notes:
 -No soil cuts within 20 feet of septic trenches.
 -No swales within 30 feet of septic trenches
 unless approved, in writing, by Engineer.

MITCHELL ENVIRONMENTAL, PA C-2917 1501 LAKESTONE VILLAGE LANE SUITE 205 FUQUAY VARINA, NC 27526	PREPARED FOR : Robert Homan 1501 Lakestone Village Lane Suite 205 Cary, NC 27511	REVISION NO.	DATE	SHEET NUMBER
		Original Submittal	May 6, 2025	1 of 7
		Revision 1		
		Revision 2		
DATE : May 6, 2025 DESIGNER CONTACT: ADAM AYCOCK, E DRAWN BY: ADAM AYCOCK, E		Revision 3		Magnolia Acres Lot 17 Overall Septic
		Master Set		

PRESSURE MANIFOLD DESIGN

Name: HHH Hunt Homes P.I.N. #: 0633-02-2902 D #: N/A

Address: Magnolia Acres Lane Subdiv: Magnolia Acres Lot#: 17

of BDR: 4 Daily Flow: 480 gal/day L.T.A.R.: 0.300 gal/day/sq.ft

Septic Tank: 1000 gals (min.) Pump Tank: 1200 gals (min.) Sq. Foot: 804 Stone Depth: N/A
(Panel Block)

Number of Taps: 4 Length of Trenches: 67 ft (See Tap Chart for Details)

Depth of Trenches: see Harnett County permit Manifold Length: 42 in

Manifold Diameter: 4 in sch 80 pvc (minimum) Tap Configuration: 6 in spacing 1 side(s) of manifold

Supply Line: length: 150 ft Diameter: 2 in sch 40 pvc

Friction Loss + Fitting Loss: 2.57 ft (supply line length + 70' for fittings in pump tank)

Design Head: 2.0 ft Elevation Head: 14.00 ft

Vent Hole Size: 3/16 in Orifice Coefficient of Discharge: 0.60

Orifice Coefficient of Contraction: 0.62 Orifice Coefficient of Velocity: 0.97

Maximum Head Supplied by Selected Pump(s) at Total Design Flowrate: 33 ft

Orifice / Vent Hole Flowrate: 2.38 gpm Head Loss at Orifice / Vent Hole: 2.09 ft

Total Head: 20.67 ft Pump to Deliver: 24.30 gals/min at 20.67 ft head

Dosing Volume: 252.59 gals.

Drawdown: 252.59 gals divided by 19 gals/in = 13.29 inches

SJE Rhombus Installer Friendly Series simplex control panel, or equivalent, required
A septic tank filter, or equal is required.

Possible pumps: Hydromatic: Goulds: Myers:
Zoeller: 153 Other:

TAP CHART

Bench Mark	1.53	is = 100.00	set at	Water meter box lid				Design Head:	2.0
Pump tank elev.		19	82.53	Pump elev.	77.53	Manifold elev.			91.53
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR
5	Blue	11.00	90.53	67	1/2in SCH 80	5.48	120.00	201	0.5970
6	Orange	12.80	88.73	67	1/2in SCH 80	5.48	120.00	201	0.5970
7	Yellow	14.87	86.66	67	1/2in SCH 80	5.48	120.00	201	0.5970
8	Purple	17.35	84.18	67	1/2in SCH 80	5.48	120.00	201	0.5970
		total	feet =	268	gal/min =	21.9	LTAR =		0.3000
% of Pipe Vol.		145		Des. Flow	480.00	(ltar + 5%)			0.3150
Dose Volume		252.59		Pump Run=	21.90	(ltar W/ PB)			0.6000
Dose Pump Time		11.52		Tank Gal/IN	19	(ltar + 5%)			0.6300
Drawdown in Inches		13.29		Elev. Head	14.00				
Supply Line Length		150							
Comments:									