WAKE COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES WASTEWATER PERMIT

NO PERMIT(S) FOR CONSTRUCTION, LOCATION OR RELOCATION ACTIVITY SHALL BE ISSUED UNTIL AN AUTHORIZATION FOR WASTEWATER SYSTEM CONSTRUCTION AUTHORIZATION HAS BEEN ISSUED

PERMIT VOID IF NOT IN COMPLIANCE WITH ZONING REGULATIONS AND/OR IF SITE IS ALTERED OR INTENDED USE CHANGED

OPERATIONS PERMIT

PERMIT # WRP-102371-2023 **APPLICATION DATE:** 05/11/2023 **BLDG. PERMIT#: MHPR-102390-2023**

PIN: 1639244597 **RECORDED:** Yes

TOWNSHIP: 16 - St. Marys **JURISDICTION:** Wake County **ZONING:** R-30

APPLICANT: Nick Kirsch
2117 highway 70 east

BUSINESS PHONE: (919) 772-2220
HOME PHONE:
MOBILE PHONE: (919) 868-4741

HD USE: 112 MANUFACTURED HOME **EXISTING USE:**

SITE ADDRESS: 9344 OLD CASCADE DR

SUBDIVISION: MEADOWBROOK ESTATES RCMB **LOT:** 70 **ACRES:** 0.48

DIRECTIONS: Go to Hwy 70 E and T/L. Go to White Oak Rd and T/L. Go to Old Cascade Dr and T/R. Then T/L onto Villa St. Then T/R onto Old Cascade RD. Lot is on Left.

Systems defined as either type III-b, III-g with a pump, IV, V or VI, in accordance with the North Carolina administrative code 15A NCAC 18a .1961, table V as adopted by reference in the "Regulations Governing Wastewater Treatment Dispersal Systems in Wake County", requires Wake County Environmental Services to conduct periodic inspections of the system type pursuant to 15A NCAC 18a. 1961 (j). Fees for these inspections will be charged as per the approved Fee Schedule. In addition, all systems are to be operated and maintained as specified in 15A NCAC 18A .1961. This permit is based in part on information provided by the homeowner and/or his/her representative in the application submitted for this permit. The Environmental Health Specialist is not responsible for false or misleading information contained in the application. The environmental health specialist is also not responsible for concealed conditions on the property or for statements in this report that may have resulted from false or misleading statements provided to him/her in the application. Neither Wake County nor the Environmental Health Specialist warrants that the septic tank system will continue to function satisfactorily in the future or that the water supply will remain potable.

OPERATION PERMIT VALID FOR: No Expiration
INSTALLED BY: STRICKLAND, HAROLD W - 2763 - IV
PROPRIETARY SYSTEM: PPBPS - Horizontal **PRETREATMENT SYSTEM:**
SYSTEM TYPE INSTALLED: III E
OPERATION PERMIT: STATUS: Issued **ISSUED BY:** Adrienne Holloway **ISSUED DATE:** 04/02/2024

SEPTIC TANK: Erader Mills - STB-858 - 1000 gallons **DATE OF MANUFACTURE:** 07/31/2023 **FILTER:** Polylok - PL-68
GREASE TRAP: **DATE OF MANUFACTURE:** **FILTER:**
DOSING PUMP TANK: **DATE OF MANUFACTURE:** **FILTER:**
CC1: **ETM1:** **CC2:** **ETM2:**
RECIRCULATION TANK: **DATE OF MANUFACTURE:**
CC1: **ETM1:** **CC2:** **ETM2:**

SEPTIC TANK ELEVATION: 2.91 **GREASE TRAP ELEVATION:** **DOSING PUMP TANK ELEVATION:**

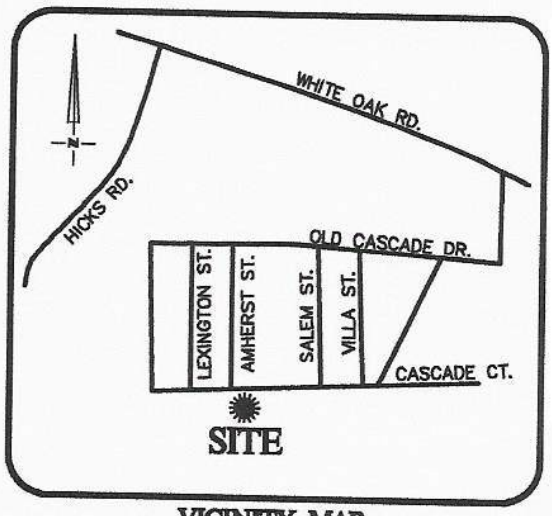
RECIRCULATION TANK ELEVATION: **DISTRIBUTION DEVICE ELEVATION:** 4

INSTALLED TRENCH DEPTH	INSTALLED AGGREGATE DEPTH	INSTALLED TRENCH LENGTH	INSTALLED TRENCH BOTTOM ELEVATION
19	14	67	4.91
19	14	67	5.83
19	14	67	6.83

ACTUAL PRESSURE HEAD: **ACTUAL FLOW RATE:** **ACTUAL DOSE VOLUME:** 0

SPECIFIC OPERATION REQUIREMENTS:
-System designed for 3 bedroom residence, having 360 gals/day.
-Site serviced by private well water.
-Future Repair is a IIIE-50% reduction system PPBPS –Horizaontal system with a max trench depth of 19” and a 0.3 LTAR.
-Fill material on-site during inspection.

ISSUED BY:  **DATE:** 04/02/2024



VICINITY MAP
Not To Scale

SITE PLAN APPROVED BY
WAKE COUNTY N.C. P.D.I.
Derek Farmer
06/27/2023 8:14:25 AM

Required Setbacks	
Front	30
Side	10
Rear	30
Corner	

102390-2023

Revised
06/27/2023 8:15:29 AM

scale 1"=30'

IMPERVIOUS SURFACE AREA	
DESCRIPTION	AREA
HOUSE w/ PORCH	2,001 S.F.
HVAC/MISC	9 S.F.
DRIVEWAY & WALKS	0 S.F.
TOTAL =	2,010 S.F.
LOT AREA =	21,099 S.F.
% IMPERVIOUS AREA	=9.5%
*MAX IMPERVIOUS	=30.0%

*WAKE COUNTY ZONE R-30

177
N/F
DONNA & ELSTER MARIE
PIN# 1639-24-6373
DB 18662 PG 727
BM 2004 PG 421

72
N/F
TIMOTHY McALLISTER
PIN# 1639-24-4314
DB 14443 PG 1552
BM 1998 PG 2393

BM 2023 PG 767

N89°00'47"W 70.11'
N89°09'28"W 69.94'

34 ft
12 ft
12 ft
44 ft
22 ft
15 ft
36 ft
56 ft
54 ft
27 ft
11 ft
15 ft
3' x 67'
3' x 67'
3' x 67'
10' SETBACK
BACK
Repair Area
70
21,099 S.F.
0.48 Ac.
MANUFACTURED HOME
76.0'
26.3'
26.3'
76.0'
11.9'
25 ft
BACK
24 ft
97 ft
47.3'
40 ft
well area
#9344
17 ft
25 ft
151 ft
S01°27'00"W 150.65'
N01°27'59"E 150.81'

71
N/F
VIRGINIA & WILLIE DAVIS
PIN# 1639-24-5596
DB 2094 PG 421
BM 1968 PG 187

67
N/F
KATIE ROBINSON
PIN# 1639-24-3670
DB 8064 PG 1403
BM 1994 PG 361

S89°01'19"E 70.00'
S89°01'22"E 70.00'
140 ft

OLD CASCADE DRIVE
N.C.S.R. 3815
60' PUBLIC R/W

REVISIONS		
DATE	REVISED BY	COMMENT
6/8/23	J.S	MOVED HOUSE FORWARD 15'
6/12/23	J.S	SEPTIC LOCATED & ADDED

NOTES:
-ALL DISTANCES SHOWN ARE HORIZONTAL GROUND DISTANCES

WAKE COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES WASTEWATER PERMIT

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PERMIT VOID IF NOT IN COMPLIANCE WITH ZONING REGULATIONS AND/OR IF SITE IS ALTERED OR INTENDED USE CHANGED

CONSTRUCTION AUTHORIZATION PERMIT

PERMIT # **WRP-102371-2023** **APPLICATION DATE:** 05/11/2023 **BLDG. PERMIT#:** **MHPR-102390-2023**

PIN: 1639244597 **RECORDED:** Yes

TOWNSHIP: 16 - St. Marys **JURISDICTION:** Wake County **ZONING:** R-30

APPLICANT: Nick Kirsch
2117 highway 70 east
garner, NC 27529

BUSINESS PHONE: (919) 772-2220
HOME PHONE:
MOBILE PHONE: (919) 868-4741

HD USE: 112 MANUFACTURED HOME **EXISTING USE:**

SITE ADDRESS: 9344 OLD CASCADE DR

SUBDIVISION: MEADOWBROOK ESTATES RCMB **LOT:** 70 **ACRES:** 0.48

DIRECTIONS: Go to Hwy 70 E and T/L. Go to White Oak Rd and T/L. Go to Old Cascade Dr and T/R. Then T/L onto Villa St. Then T/R onto Old Cascade RD. Lot is on Left.

Contractors shall install system on contour. See attached SITE PLAN for wastewater system design and well location. No underground utilities, water lines or sprinklers systems may be located in the original system, or permit areas. A septic tank filter with two risers for access is required. The wastewater system shall not be covered or placed into use until inspected by the Wake County Department of Environmental Services and Operations Permit issued. An Accepted Status System may be used in place of conventional system, if it can be placed in the permitted/authorized trench footprint (except reduction in line length and/or number as allowed for in approval) and the installation in accordance with the accepted system approval, without unauthorized product alteration. If permit required use of an Accepted Status System, substitution with another accepted status system may be made, as long as no changes are necessary in the location of each nitrifications line (including any increase in line length), trench depth or effluent distribution method. If changes are necessary, prior approval by this office is required before system installation. Maximum depth of line is calculated using the downhill side of the trench and includes slope correction.

CONSTRUCTION AUTHORIZATION PERMIT VALID FOR: Five Years

CONSTRUCTION AUTHORIZATION PERMIT: **CA STATUS:** Issued **BY:** Adrienne Holloway **DATE:** 06/30/2023

CA VALID FOR: Five Years **DESIGN FLOW:** 360 GALLONS **BASEMENT:** No **BASEMENT FIXTURES:** No

SEPTIC TANK: 1000 GALLONS
DOSING PUMP TANK:
GREASE TRAP:
RECIRCULATION PUMP TANK:

SEPTIC TANK FILTER: Yes
DOSING PUMP TANK FILTER:
GREASE TRAP FILTER:
RECIRCULATION PUMP TANK FILTER:

PROPOSED SYSTEM: PPBPS - Horizontal **EXISTING SYSTEM:**
DRAINFIELD SQ. FT: 603 **AGGREGATE DEPTH:** 14 **MAX. TRENCH DEPTH:** 20 INCHES
DISTRIBUTION DEVICE: GS - Gravity Serial
TRENCH #: 3 **TRENCH LENGTH:** 67 FEET **TRENCH WIDTH:** 36 INCHES **TOTAL TRENCH LENGTH:** 201 FEET

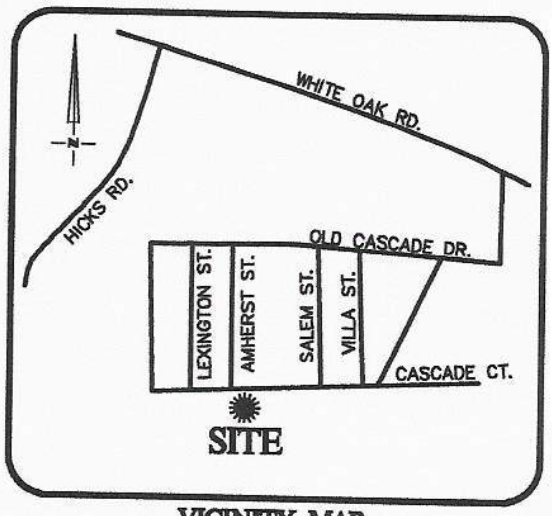
CENTER SPACING: 9 FEET **MINIMUM SOIL COVER:** 6 INCHES

PRETREATMENT: **APPROVAL #:**
SUBFIELDS #: **PUMP DESIGN FLOW:**
PUMP TDH: **ZONE VALVE:** No

ASDMS REQUIRED: No **LINE OF CREDIT REQUIRED:** No **OPERATOR REQUIRED:** No
P.E. SIGN OFF/ASBUILT REQUIRED: No **TRIPARTY AGREEMENT REQUIRED:** No

SPECIFIC CONSTRUCTION AUTHORIZATION REQUIREMENTS:
-System designed for 3 bedroom residence, having 360 gals/day.
-Site serviced by private well water.
-Future Repair is a IIIE-50% reduction system PPBPS –Horizontal system with a max trench depth of 20” and a 0.3 LTAR.
-Any deviation from accepted design must be approved by Wake County ES prior to system installation.
-Property lines required to be clearly marked prior to digging.
-Maintain all required setbacks.
-Please contact WCES – Adrienne Holloway, 919-422-3751 with any questions prior or during install.

Issued By: AHolloway REHS **Date:** 06/30/2023



VICINITY MAP
Not To Scale

SITE PLAN APPROVED BY
WAKE COUNTY N.C. P.D.I.
Derek Farmer
06/27/2023 8:14:25 AM

Required Setbacks	
Front	30
Side	10
Rear	30
Corner	

102390-2023

Revised
06/27/2023 8:15:29 AM

scale 1"=30'

IMPERVIOUS SURFACE AREA	
DESCRIPTION	AREA
HOUSE w/ PORCH	2,001 S.F.
HVAC/MISC	9 S.F.
DRIVEWAY & WALKS	0 S.F.
TOTAL =	2,010 S.F.
LOT AREA =	21,099 S.F.
% IMPERVIOUS AREA	=9.5%
*MAX IMPERVIOUS	=30.0%

*WAKE COUNTY ZONE R-30

177
N/F
DONNA & ELSTER MARIE
PIN# 1639-24-6373
DB 18662 PG 727
BM 2004 PG 421

72
N/F
TIMOTHY McALLISTER
PIN# 1639-24-4314
DB 14443 PG 1552
BM 1998 PG 2393

BM 2023 PG 767

N89°00'47"W 70.11'
N89°09'28"W 69.94'

WRP-102371-2023 CA Site Plan

Initial System

-67, 67, 67 PPBPS 50% reduction lines
Horizontal orientation
Gravity to serial distribution
20" Maximum Trench depth
0.3 LTAR
1000 gallon septic tank

Repair System

-(4) 50' x 3' PPBPS 50% reduction lines
Horizontal orientation
Gravity to serial distribution
20" Maximum trench depth
0.3 LTAR
1000 gallon septic tank

Well setbacks

-17 ft. from the north property line
-129 ft. from the south property line
-40 ft. from the west property line
-97 ft. from the east property line
-25 ft. from the house

Orange 50'
White 50'
Yellow 67'
Purple 67'
Lime 67'

10' SETBACK
30' SETBACK
SETBACK

21,099 S.F.
0.48 Ac.

MANUFACTURED HOME

well location
#9344

N/F
KATIE ROBINSON
PIN# 1639-24-3670
DB 8064 PG 1403
BM 1994 PG 361

S89°01'19"E 70.00'
S89°01'22"E 70.00'
140 ft

OLD CASCADE DRIVE
N.C.S.R. 3815
60' PUBLIC R/W

REVISIONS		
DATE	REVISED BY	COMMENT
6/8/23	J.S	MOVED HOUSE FORWARD 15'
6/12/23	J.S	SEPTIC LOCATED & ADDED

NOTES:
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IMPROVEMENT PERMIT

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DIRECTIONS: Go to Hwy 70 E and T/L. Go to White Oak Rd and T/L. Go to Old Cascade Dr and T/R. Then T/L onto Villa St. Then T/R onto Old Cascade RD. Lot is on Left.

Permit is subject to revocation if the Site Plan or Plat changes or the intended use changes.
*Maximum depth of line is calculated using the downhill side of the trench and includes slope correction.

IP VALID FOR: Five Years AS PER GS 130A-335 (f)
DESIGNED BY:
SYSTEM LAYOUT: Staff
SITE CLASSIFICATION: Provisionally Suitable

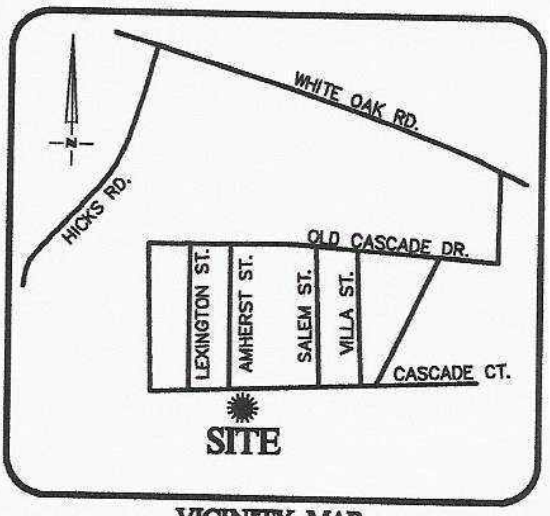
IP STATUS: Issued **BY:** Adrienne Holloway **DATE:** 06/30/2023

NUMBER OF BEDROOMS: 3 **OR TOTAL NUMBER OF OCCUPANTS:** 6
PERMITTED DESIGN FLOW: 360 GPD
BASEMENT: No **BASEMENT PLUMBING:** No
WASTEWATER STRENGTH: Domestic
SYSTEM TYPE: III E
LTAR: 0.300
EXISTING SYSTEM UTILIZED:
PRETREATMENT STRENGTH REQUIRED: None
EASEMENT FOR WW SYSTEM ASSOCIATED WITH PARCEL: No

MAXIMUM TRENCH DEPTH: 20 INCHES
PUMP REQUIRED: No

SPECIFIC SYSTEM REQUIREMENTS: -System designed for a 3 bedroom residence, having 360 gals/day.
-Site serviced by private well water.
-Future Repair is a IIIE -50% reduction system PPBPS – Horizontal orientation, with a max trench depth of 20" and a 0.3 LTAR.
-No cutting, grading, alterations, or utilities in septic area.
-Maintain all required setbacks.

ISSUED BY:  **DATE:** 06/30/2023



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Not To Scale

SITE PLAN APPROVED BY
WAKE COUNTY N.C. P.D.I.
Derek Farmer
06/27/2023 8:14:25 AM

Required Setbacks	
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BM 1998 PG 2393

BM 2023 PG 767

N89°00'47"W 70.11'
N89°09'28"W 69.94'

WRP-102371-2023 IP Site Plan
Initial System: Type IIIE
Repair System: Type IIIE

Initial System area
Repair System area

10' SETBACK
10' SETBACK
30' SETBACK

(0)
21,099 S.F.
0.48 Ac.

MANUFACTURED HOME
76.0'
26.3'

S01°27'00"W 150.65'
N01°27'59"E 150.81'

VIRGINIA & WILLIE DAVIS
PIN# 1639-24-5596
DB 2094 PG 421
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KATIE ROBINSON
PIN# 1639-24-3670
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BM 1994 PG 361

well location

S89°01'19"E 70.00'
S89°01'22"E 70.00'

140 ft

OLD CASCADE
N.C.S.R. 3815
60' PUBLIC R/W

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DATE	REVISED BY	COMMENT
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