Permit #:	SFD 2404-0118
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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 \$
	IMPROVEME	NT PERMIT FOR G.S. 130A-33	
County: HARN	ETT	01.01.230A-33.	5(az)
	579-52-3028.00	0	
Issued To: ANDR	EN JENKINS		
Property Location: 0.0	67 MI WEST OF DOLL	HOUSE DO AN ANDEN	
Subdivision (if applicable	(ADJACENT TO 14	554 MCDOUGALD RD)	SIDE OF MCDOUGALD RD  Block: Section:
If yes, name and license	number of LSS: ROBIN M	PEREZ LSS 1205	_
MEN (X)	Expansion	Suntan Data	
Proposed Structure: 4	BEDROOM HOUSE		Change of Use
Number of bedrooms:	4 Number of Occupants: 8	Other:	
Design Wastewater Stren	igth: 🔀 domestic	high strength industria	process
Proposed Design Daily Flo	DW: 480 GPD PI		
Proposed Wastewater Sy		PROFILE (Initial) Pump Regu	posed LTAR (Repair):
*Please include sustain	stem Type*: III b, g CH	(Repair) Pump Requi	ired: Yes No May be required
Saprolite System (initial):	assification for proposed wastewate	system types in accordance with 15A N	CAC 18A .1961 Table V(a)
	Sanroure Cu	tom (remain)	
Fill System (repair): Ye	No If yes, specify: New	Existing (when adding more than 6 in	nches of fill to system area provide a fill plan)
Usable Soil Depth (Initial):	24-30" Usable Soil D	Existing (when adding more than 6 in	nches of fill to system area provide a fill plan) nches of fill to system area provide a fill plan)
Max. Trench Depth (Initial)	t: 12" May Zanat	Pepth (Repair): 24-30"	, , , ,
Artificial Drainage Require	d: Yes No If yes, please spe	Depth (Repair)*: 12 *M	easured on the downhill side of the trench
ype of Water Supply: [ ]	Private well Public well De	Character 11 Ed	
	equirements of Rule .1945: Yes	No Designation	
ermit valid for: 🛛 Five ye	ars [site plan submitted pursuant to	GS 130A-334/13-11	Spring Other: uirements of Rule .1950: Yes M No Dolat submitted pursuant to GS 130A-334(7a)]
PS SOIL AR	EA SHOWN WITH	24-30" SUITABLE D	EDTA 250
140 6 400	1	Duringte Di	1714, 28,000 SF
rensed Soil Scientist B. J.	P		
censed Soil Scientist Print	Name: ROBIN M. PL	YEZ LSS 1205	
	The state of the s	3	_ Date: 8/13/2023
, ne c	and admitted by	issant to and meets the requirements	of G.S. 130A-335(a2).
	366 2	attached site sketch*	

NC DEPARTMENT OF HEALTH AND HUMAN SERVICES . DIVISION OF PUBLIC HEALTH

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

AN EQUAL OPPORTUNITY / AFFIRMATIVE ACTION EMPLOYER



Permit #: SFD 2404-0118

# This Section for Local Health Department Use Only

Initial submittal received: 7-11-24 by MO G.S. 130A-335(a3) states the following: When an applicant for an Improvement Permit submits to a local health department on 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 The review for completeness of this Improvement Permit was conducted in accordance with G.S. 130A-335(a3). This Improvement ☐ 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: \_\_\_ State Authorized Agent: Mah de REH Date: 7-16-24 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: 7-16-29

G.S. 130A-335(a2) Common Form

\*See attached site sketch\*

# SOIL/SITE EVALUATION

(Continuation Sheet-Complete all field in full)

Sheet \_\_\_ of 4

DEPARTMENT OF HEALTH AND HUMAN SERVICES DIVISION OF PUBLIC HEALTH ENVIRONMENTAL HEALTH SECTION ON-SITE WATER PROTECTION BRANCH

PROPERTY ID #: 9579 - 62-3828

DATE OF EVALUATION: 7/21/23

COUNTY: HARNETT

.1940		SOIL MORPHO (.1941)	DLOGY	OTHER PROFILE	FACTORS			
POSITION/ SLOPE %	HORIZ ON DEPTH (IN.)	.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILI CLASS & LTAR
SS 290 PS	13. 11.	GR, SL SBK, SCL SBK, SCL	FR, NP, NS F, SP, SS, SXP VF, SP, SS, SXP	30" 1041 <sup>7</sup> 12 PS	40"+			PS 0.4
55 3% PS	8-16 1B-24	SBK, C	FR, NP, NS F, SP, SS, SXP F, P, S, SXP F, P, S, SXP	18" 10408/12 10408/12 W/PS	28"+ WPS			U/PS DRIP SFC/S
3%	6-12 12-24 :	ABK, SCL SBK, C	F, P, S, SXP F, P, S, SXP	24" 10458/2 10458/2 10458/2	40"+ PS			12" 0.3 DRIP
59° (1) PS 2	2-24 s 4-48 s	BK, SC	FR,NP,NS F,SP,SS,SXP F,P,S,SXP F,P,S,SXP	24"	48" Ps		-	u/PS 12" 6.3 DRIP
596 18 PS 2	7-18 G 3-28 S 8-48 A	R, SL F BK, SCL F BK, SCL F	FR, NP, NS ESP, SS, SXP	PS	PS		-	PS 0.4 conv.
	LANDSCAPE POSITION/ SLOPE %  SS 290 PS  SS 390 PS  SS 590 PS	LANDSCAPE POSITION/ SLOPE % HORIZ ON DEPTH (IN.)  SS   0-18   18-30   30-40   75   8-16   18-24   75   24-28   8-16   12-24   75   24-40   75   24-40   75   75   75   75   75   75   75   7	1940	LANDSCAPE POSITION'SLOPE %  HORIZ ON DEPTH (IN.)  STRUCTURE/ CONSISTENCE/ MINERALOGY  SS 0-18 GR, SL FR, NP, NS  18-30 SBK, SCL F, SP, SS, SXP  29. 30-40 SBK, SCL F, SP, SS, SXP  PS 0-8 GR, SL FR, NP, NS  8-16 ABK, SCL F, SP, SS, SXP  18-24 SIBK, C F, P, S, SXP  SS 0-6 GR, SL FR, NP, NS  39. 18-24 SBK, C F, P, S, SXP  SS 0-6 GR, SL FR, NP, NS  4-12 ABK, SCL F, SP, SS, SXP  12-24 SBK, C F, P, S, SXP  SS 0-6 GR, SL FR, NP, NS  4-12 GR, SCL F, SP, SS, SXP  SS 0-6 GR, SC F, P, S, SXP  SS 0-7 GR, SC F, P, S, SXP  SS 0-8 GR, SC F, P,	1.940	1.940	1.940	1941   1941

# SOIL/SITE EVALUATION

(Continuation Sheet-Complete all field in full)

Sheet 2 of 4

DEPARTMENT OF HEALTH AND HUMAN SERVICES DIVISION OF PUBLIC HEALTH ENVIRONMENTAL HEALTH SECTION

PROPERTY ID #: 9579-52-3028

DATE OF EVALUATION: 7/21/23

COUNTY: HARNETT

ON-SITE WATER PROTECTION BRANCH

F C F	.1940		SOIL MORPHO (.1941)	LOGY	OTHER PROFILE				
#	POSITION/ SLOPE %	HORIZ ON DEPTH (IN.)	.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
6	55 490 PS	12-20	GR, SL GR, SL SBK, SCL SBK, SCL	FR, NP, NS FR, NP, NS F, SP, SS, SXP F, P, S, SXP	4/PS 20" 10yr8/1 10yr8/2	PS 36"		_	U/PS DRIP 0.3
7	55 276 PS	10-18	SBK, SCL	FR, NP, NS FR, NP, NS F, SP, SS, SXP F, P, S, SXP F, P, S, SXP	WPS 18" 10yr8/1 10yr8/2	PS 36"			U/PS DRIP 6.3
8	55 290 PS	0-4 4-8 8-24	GR, SL GR, SL SBK, SCL	FR, NP, NS	30" 30" 10yr 7,2 0yr 8/2	PS 36"			u/PS 6.4
9	55 290 PS	6-10 0	ABK, SCL F	FR, NP, NS FR, NP, NS FR, SP, SS, SXP F, P, S, SXP	28" 28" 04.7/2 04.8/2	PS 36"			U/PS 0.4
[U]	55 2% 75	0-4 0 4-18 0 18-28 A 28-34 S	SR, SL I BK, SCL F BK, SCL F	FR, NP, NS FR, NP, NS F, SF, SS, SXP	28" 28" 27 7/2 27 8/1	PS 36			u/Ps 6.4

# SOIL/SITE EVALUATION

(Continuation Sheet-Complete all field in full)

Sheet 3 of 4

DEPARTMENT OF HEALTH AND HUMAN SERVICES DIVISION OF PUBLIC HEALTH ENVIRONMENTAL HEALTH SECTION ON-SITE WATER PROTECTION BRANCH

PROPERTY ID #: 9579-52-3028

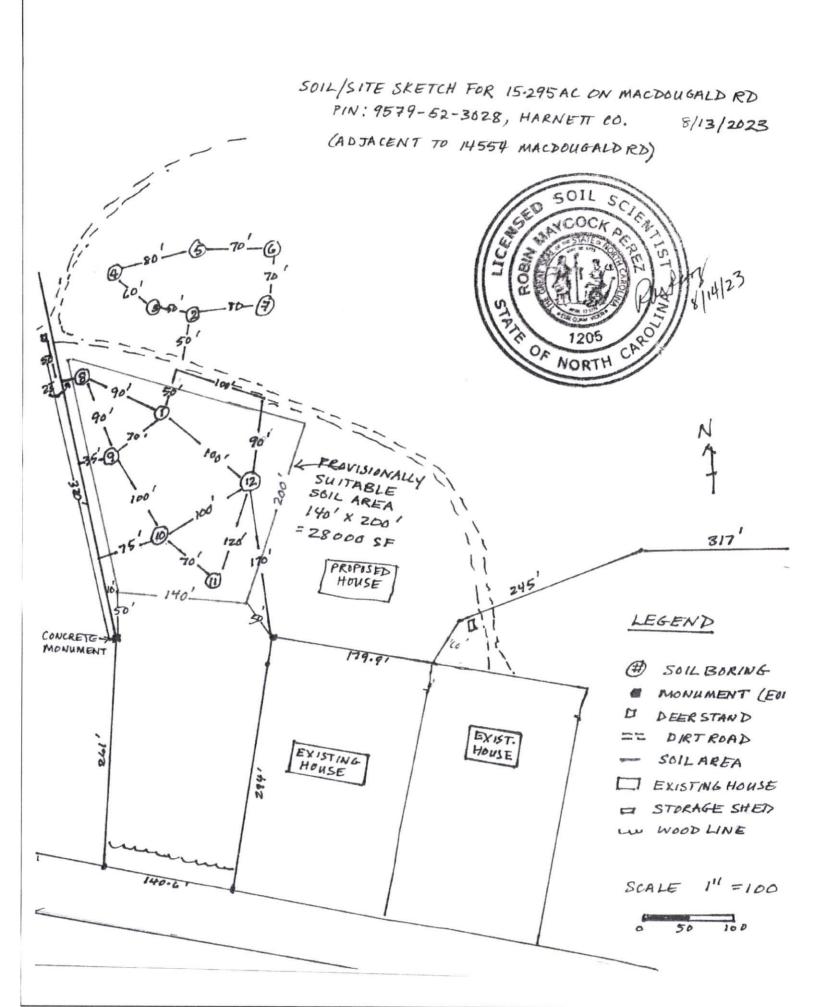
DATE OF EVALUATION: 7/21/2023
COUNTY: HARNETT

R 0 SOIL MORPHOLOGY F OTHER (.1941)PROFILE FACTORS .1940 L LANDSCAPE E HORIZ POSITION/ .1942 .1941 ON .1941 SOIL SLOPE % STRUCTURE/ .1943 .1956 DEPTH PROFILE CONSISTENCE/ .1944 WETNESS/ SOIL SAPRO TEXTURE MINERALOGY RESTR CLASS (IN.) COLOR DEPTH CLASS HORIZ & LTAR 0-6 GR, SL FR, NP, NS SS UIPS H/PS 6-15 GR, SL FR, RYP, NS 11 36" 15-28 ABK, SCL F, SP, SS, SXP 0.4 10 yr 7/2 28-36 SBK, SCL F, SP, SS, SXP PS U-6 GR, SL 55 FR, NP, NS PS U/PS 6-18 GR, SL FR, NP, NS 290 12 36" 18-30 ABK, SCL 0.4 F, SP, SS, SXP PS 30-36 SBK, 5CL F, SP, SS, SXP OIL 1205 0, NORTH LOW PROFILE CHAMBER OR SHALLOW CONVENTIONAL PUMP MAY BE REQUIRED. COMMENTS:

# LEGEND

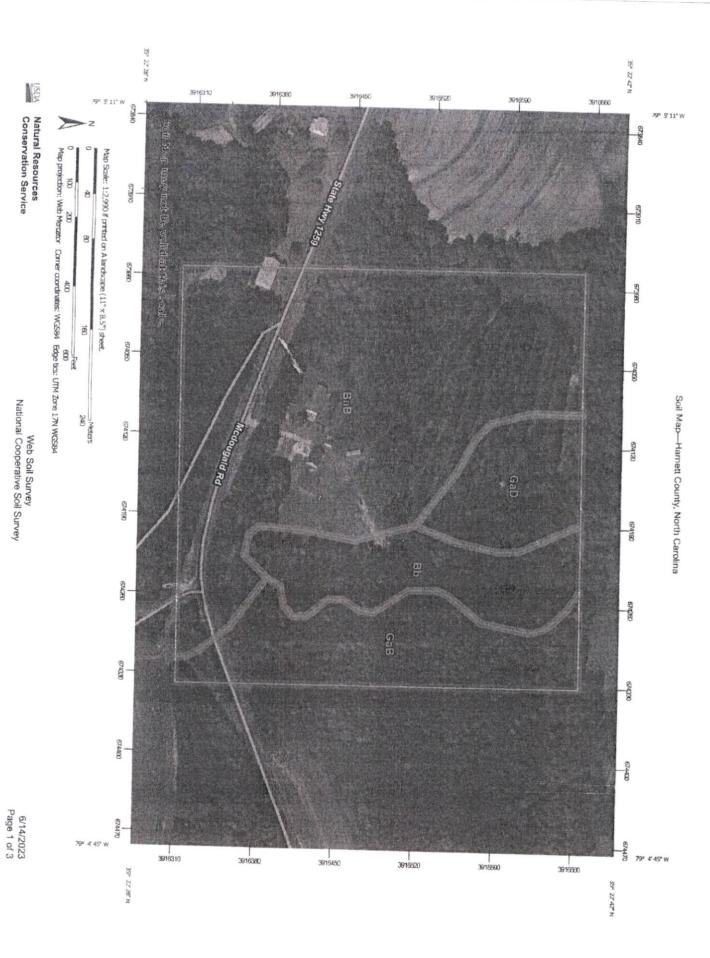
PIN: 9579-52-3028 DATE: 7/21/23

		use the foll	owing standard al	bbreviations	COUNTY: H	21/23
LANDSCAPE POSITIO	N GROUP	SOIL A	CONVENTIONAL	L LPP	MINERALOGY/	
CC (Concave Slope)	I I	TEXTURE S (Sand)	1.2 - 0.8	.1957 LTAR*	CONSISTENCE	STRUCTURE
CV (Convex Slope) D (Drainage Way)		LS (Loamy Sand)	1.2 - 0.0	0.6 - 0.4	SEXP (Slightly Expansive) EXP (Expansive)	G (Single Grain) M (Massive)
DS (Debris Slump) FP (Flood Plain)	п	SL (Sandy, 1) M	0.8 - 0.6	0.4 - 0.3		CR (Crumb) GR (Granular)
FS (Foot Slope) H (Head Slope)	ш	Si (Silt)	0.6 - 0.3	07.015		SBK (Subangular Blocky) ABK (Angular Blocky)
L (Linear Slope) N (Nose Slope)		SiCL (Silty Clay CL (Clay Loam)	1	0.3 - 0.15		PL (Platy) PR (Prismatic)
R (Ridge) S (Shoulder Slope) T (Terrace)		SCL (Sandy Clay L. SiL (Silt Loam)	¢.		MOIST	WET
(Terrace)	ľV	SC (Sandy Clay)	0.4 - 0.1	0.2 - 0.05	VFR (Very Friable) FR (Friable)	NS (Non-sticky)
		SiC (Silty Clay) C (Clay)			FI (Firm) VFI (Very Firm v. Very Sticky)	SS (Slightly Sticky) S (Sticky)
*A	diust LTAR due to denth, com	O (Organic)	None	None	EFI (Extremely Firm)	VS (Very Sticky) NP (Non-plastic) SP (Slightly Plastic)
HORIZON DEPTH	djust LTAR due to depth, cons	al soil surface	tness, landscape, position,	wastewater flow an	nd quality.	P (Plastic)
DEPTH OF FIJERESTRICTURE HORIZON SAPROLUGE SOIL WE WEESS CLASSIC CATO Evaluation of september Horizon Long term Acceptance Horizon	O I In inches from land so Thickness and depth	rrface from land surface	左	//		6
SOIL WE WESS	CO Carries from land surfi	itable)	from land surface to soil	color with a li	2 of less - record Munsell color of	/
Evaluation of seprolite mail	ar by the (Suitable) PS (Prov	isionally Suitable), or U (	Unsuitable)	= =	Gress - record Munsell color of	chip designation
	Their profile	Populions and other site	Teatures (dimensions, re	HED ference or benchm	ark and North)	/
	1 DANS		-0.			
1131	- 17 ( ) E	1//				
110	1205 00	/				
OF N	ORTH C	Franced House		1		
		250 27.5		08/	Set	2
		后至			157	7
	4				HOWS	46
0 7/0	- H	210'				1455-4 1CDOUGALD
773	90 -1 90.	(12)—K	50'		12941	A
70' 80		126				44
	1/2 100	4	B K- 1	ROVISION	140' X 200	1 2
(B) (B-50	11-1		70'	SOIL AREA	1 140' × 200	
5	11 500	. S	5	= 28,000 HALLOW	CONMENTIONAL	्रिं ।
"	11 / 70	100	, ,	R LOW PRI	FILE CHAMBER	美
W C	40	1 7	5	W/O REDI	ICTION	
	90	35' 260	1 /c	ONCRETE	261'	
1	32	6'		MENT		1-1/
1 It	4					
5.182	1					
13.	LDEER STAND	4 BDRA	15 = 480 GP.	P = 1200	SF	
	1 .		0.4	= 400	LF .	
<i>r</i>	CALE 1"=10	0		400	LF RESERVE	
Updated February 2014	74 St. St. St.			800 4		
	50 100		u	75' X	100'	



Harnett GIS

NOT FOR LEGAL USE . GIS/E-911 Addressing June 14, 2023 1221 der e Airport City Limits County Boundary Surrounding County Boundaries MajorRoads 1229 Interstate S S Harnett County GIS, Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBases GN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community CapeFearRiver Parcels Railroad RoadCenterlines 1219 335 1 inch = 752 feet 670 Feet 1,340 1294



# MAP LEGEND

ĝ-	>	0	:-	×		×		Ø	E	Special P		ł		Soils	Area of Interest (AOI)
Marsh or swamp	Lava Flow	Landfill	Gravelly Spot	Gravel Pit	Closed Depression	only opor	Clay Spot	Borrow Pit	Blowout	Special Point Features	Soil Map Unit Points	Soil Map Unit Lines	Soil Map Unit Polygons	Area of Interest (AOI)	brest (AOI)
	Background			Ś	}	ŧ	Transportation		Water Features	,	0	<b>C</b> 3	8	۵	B
Aerial Photography	1d	Local Roads	Major Roads	US Routes	Interstate Highways	Rails	ation	Streams and Canals	tures	Special Line Features	Other	Wet Spot	Very Stony Spot	Stony Spot	Spoil Area

# MAP INFORMATION

1:24,000. The soil surveys that comprise your AOI were mapped at

Warning: Soil Map may not be valid at this scale.

contrasting soils that could have been shown at a more detailed misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of Enlargement of maps beyond the scale of mapping can cause

Please rely on the bar scale on each map sheet for map

Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

accurate calculations of distance or area are required. Albers equal-area conic projection, should be used if more distance and area. A projection that preserves area, such as the projection, which preserves direction and shape but distorts Maps from the Web Soil Survey are based on the Web Mercator

of the version date(s) listed below. This product is generated from the USDA-NRCS certified data as

Survey Area Data: Version 20, Sep 8, 2022 Soil Survey Area: Harnett County, North Carolina

1:50,000 or larger. Soil map units are labeled (as space allows) for map scales

Date(s) aerial images were photographed: Apr 23, 2022—Apr

imagery displayed on these maps. As a result, some minor compiled and digitized probably differs from the background shifting of map unit boundaries may be evident. The orthophoto or other base map on which the soil lines were

Ġ ::

Severely Eroded Spot

Sandy Spot

Saline Spot Rock Outcrop Perennial Water Miscellaneous Water Mine or Quarry

0 0 净

ø d

Sodic Spot Slide or Slip Sinkhole

# Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Bb	Bibb soils, frequently flooded	4.4	13.8%
BnB	Blaney loamy sand, 2 to 8 percent slopes	18.9	59.0%
GaB	Gilead loamy sand, 2 to 8 percent slopes	5.6	17.5%
GaD	Gilead loamy sand, 8 to 15 percent slopes	3.1	9.7%
Totals for Area of Interest		32.0	100.0%

# Harnett County, North Carolina

# BnB—Blaney loamy sand, 2 to 8 percent slopes

### Map Unit Setting

National map unit symbol: 3snx Elevation: 160 to 660 feet

Mean annual precipitation: 38 to 52 inches Mean annual air temperature: 61 to 70 degrees F

Frost-free period: 210 to 245 days

Farmland classification: Farmland of statewide importance

# **Map Unit Composition**

Blaney and similar soils: 90 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

# **Description of Blaney**

### Setting

Landform: Low hills

Landform position (two-dimensional): Summit Landform position (three-dimensional): Crest

Down-slope shape: Convex Across-slope shape: Convex

Parent material: Sandy and loamy marine deposits

### Typical profile

A - 0 to 4 inches: loamy sand
E - 4 to 25 inches: loamy sand
Bt - 25 to 62 inches: sandy clay loam
C - 62 to 80 inches: loamy coarse sand

### Properties and qualities

Slope: 2 to 8 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained Runoff class: Medium

Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.57 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Available water supply, 0 to 60 inches: Low (about 4.0 inches)

### Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 3s

Hydrologic Soil Group: C

Ecological site: F137XY002GA - Loamy Summit Woodland -

**PROVISIONAL** 

Hydric soil rating: No

# **Data Source Information**

Soil Survey Area: Harnett County, North Carolina Survey Area Data: Version 20, Sep 8, 2022

# Harnett County, North Carolina

# GaD-Gilead loamy sand, 8 to 15 percent slopes

# Map Unit Setting

National map unit symbol: 3spj Elevation: 160 to 660 feet

Mean annual precipitation: 38 to 52 inches Mean annual air temperature: 61 to 70 degrees F

Frost-free period: 210 to 245 days

Farmland classification: Farmland of statewide importance

### Map Unit Composition

Gilead and similar soils: 85 percent Minor components: 5 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

### Description of Gilead

## Setting

Landform: Low hills

Landform position (two-dimensional): Shoulder Landform position (three-dimensional): Crest

Down-slope shape: Convex Across-slope shape: Convex

Parent material: Loamy and clayey marine deposits

### Typical profile

Ap - 0 to 5 inches: loamy sand Bt1 - 5 to 8 inches: sandy loam Bt2 - 8 to 42 inches: sandy clay Bt3 - 42 to 52 inches: sandy clay loam

C1 - 52 to 76 inches: clay

C2 - 76 to 80 inches: gravelly sand

### Properties and qualities

Slope: 8 to 15 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Moderately well drained

Runoff class: Medium

Capacity of the most limiting layer to transmit water (Ksat): Very low

to moderately high (0.00 to 0.57 in/hr)

Depth to water table: About 18 to 30 inches

Frequency of flooding: None Frequency of ponding: None

Available water supply, 0 to 60 inches: Moderate (about 7.9

inches)

### Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 3e



Hydrologic Soil Group: C Hydric soil rating: No

## **Minor Components**

# Blbb, undrained

Percent of map unit: 3 percent Landform: Flood plains

Landform position (two-dimensional): Toeslope

Down-slope shape: Concave Across-slope shape: Linear Hydric soil rating: Yes

### Johnston, undrained

Percent of map unit: 2 percent Landform: Flood plains Down-slope shape: Concave Across-slope shape: Linear Hydric soil rating: Yes

# **Data Source Information**

Soil Survey Area: Harnett County, North Carolina Survey Area Data: Version 20, Sep 8, 2022



Date: August 13, 2023

Harnett County Environmental Health 307 W. Cornelius Harnett Blvd. Lillington, NC 27546

RE:

Improvement Permit Application Submittal by Robin Maycock Perez of Maycock Environmental for Andrew Jenkins, for 15.295 ac property located on McDougald Road, Sanford, NC 27332, Harnett County, PIN: 9579-52-3028

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).

Owner: Andrew Jenkins
Owner's Signature: _X
Owner's Representative: Robin M. Perez LSS 1205
Signature: Koh M Rev Cz
Date: 8/13/2023