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November 7, 2024

UPDATED CONFIRMATION

50051 Governors Dr. A Chapel Hill, NC 27517	
Project Name:	Hamlet's Reserve (Parcels: 1795, 68866, 61669, 2102)
Location:	Hamlets Chapel Road
Project Number:	<u>WP-24-573</u>
Subject Features:	One (1) ephemeral segment, four (4) intermittent segments, four (4) perennial segments, fifteen (15) potential wetlands, beaver impoundment, and a mapped floodplain

This report is an update to a confirmation report issued by our office on January 28, 2021. That review confirmed the presence of four (4) intermittent segments, four (4) perennial segments, thirteen (13) wetlands, beaver impoundment, and a mapped floodplain. This updated review adds the following features: one (1) ephemeral segment, and two (2) potential wetlands based on a review of parcels 1900, 1913, 2100 and 2102.

Explanation:

The original site visit was completed on January 22, 2021, by Kim Hamlin of Sage Ecological Services (Sage), and Drew Blake of the Chatham County Watershed Protection Department, on Chatham County Parcel #s 1795, 68866, 61669 that are located inside the Jordan Lake watershed. The 2021 site visit confirmed the presence of confirmed the presence of four (4) intermittent segments, four (4) perennial segments, thirteen (13) wetlands, beaver impoundment, and a mapped floodplain. The proposed project has expanded since the original review and now includes Parcel 2102. A second onsite review was completed by Sage in October 2022, which included Parcel 2102 as well as parcels 1900, 1913, and 2100. Bold Construction submitted a request for Chatham County to complete an updated review of the project to determine if the features would be subject to riparian buffers according to Section 304 of the Chatham County Watershed Protection Ordinance.

Summary of Findings

The Chatham County Watershed Protection confirms the additional ephemeral stream and two (2) wetlands located by Sage in the most recent field review.

Required Buffers Required

The required riparian buffers provided below are in accordance with Section 304(D) of the Chatham County Watershed Protection Ordinance.

Section 304 (D)(1) – Perennial Streams

Perennial Streams - The riparian buffer shall be one hundred (100') feet landward, measured horizontally on a line perpendicular from top of bank; this distance shall be measured on all sides of perennial streams, or shall be the full horizontal extent of the Area of Special Flood Hazard as most recently mapped by the North



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Carolina Floodplain Mapping Program, NC Division of Emergency Management, whichever is the greater horizontal distance.

Section 304(D)(2) - Intermittent Streams

The riparian buffer shall be fifty (50') feet landward, measured horizontally on a line perpendicular from the top of bank; this distance shall be measured on all sides of intermittent streams.

Section 304(D)(3) – Ephemeral Streams

The riparian buffer shall be thirty (30') feet landward, measured horizontally on a line perpendicular from top of bank; this distance shall be measured on all sides along all ephemeral streams.

Section 304(D)(4) – Jurisdictional and Non-Jurisdictional Wetlands

The riparian buffer shall be fifty (50') feet landward, measured horizontally on a line perpendicular from the delineated boundary, surrounding all features classified as wetlands and linear wetlands. The potential wetlands identified by S&EC have not been confirmed by the US Army Corps of Engineers. Once the USACE confirmation is received the 50-ft riparian buffers will be required from the flagged confirmed wetland boundaries.

Section 304(D)(3) – Ephemeral Streams

The riparian buffer shall be thirty (30') feet landward, measured horizontally on a line perpendicular from top of bank; this distance shall be measured on all sides along all ephemeral streams.

Beaver Impoundments

The beaver impoundment along Wilkinson Creek will receive a 50-ft buffer based on NC DWR Buffer Interpretation/Clarification Memorandum #2007-005. This requires a 50-ft buffer on beaver impoundments as they are considered open water. The buffer will surround the beaver impoundment and is measured based on the ground elevation of the beaver dam. If multiple beaver dams are present the buffer will change according to each dam elevation. All buffers on beaver impoundments extend to the full length of the required buffer, as described above, or to the mapped floodplain boundary, whichever is the greater distance from the top of bank or wetland boundary.

Impacts to Riparian Buffers:

Impacts to the riparian buffers may require a Riparian Buffer Authorization depending on the size and scope of the impacts. Please refer to Section 304 (J)(3) of the Chatham County Watershed Protection Ordinance to determine if your impacts will require a Riparian Buffer Authorization. If you determine that a Riparian Buffer Authorization is required, please contact Drew Blake to receive the required application and submittal instructions.

This on-site determination shall expire five (5) years from the date of this letter. Landowners or affected parties that dispute a determination made by Chatham County, on parcels outside of the Jordan Lake watershed, may submit a request for appeal in writing to the Watershed Review Board. A request for a determination by the Watershed Review Board shall be made in accordance with Section 304 of the Chatham County Watershed Protection Ordinance. Landowners or affected parties that dispute a determination made by Chatham County, on parcels inside the Jordan Lake watershed, shall submit a request for appeal in writing to NC DWR, 401 & Buffer Permitting Unit, 1650 Mail Service Center, Raleigh, NC 27669-1650 attention of the Director of the NC Division of Water Quality.



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Should this project result in any direct impacts to surface water features (i.e., crossing and/or filling streams or wetlands) additional reviews may be necessary. Additionally, a Section 404/401 Permit may be required. Any inquiries regarding Section 404/401 permitting should be directed to the Division of Water Resources (Central Office) at (919)-807-6364 and the US Army Corp of Engineers (Raleigh Regulatory Field Office) at (919)-554-4884.

Respectfully,

Drew Blake

Drew Blake Assistant Director, CESSWI Chatham County Watershed Protection Department

Enclosures: Wetland Sketch Map dated October 25, 2022, completed by Sage Wetland Sketch Map dated January 21, 2021, completed by Sage NC DWQ – Stream Determination forms v. 4.11 – Completed by Sage USACE Wetland Determination Data Sheets – Completed by Sage Major Subdivision Riparian Buffer Application Authorized Agent Form Authorization to Enter Property Form January 28, 2021 Riparian Buffer Determination Report

cc: Taylor Burton, Sr. Watershed Specialist, Chatham County Watershed Protection Department Phillip Cox, Sr. Watershed Specialist, Chatham County Watershed Protection Department Justin Hasenfus, Erosion Control Program Manager, Chatham County Watershed Protection Dept Rachael Thorn, Director, Chatham County Watershed Protection Department Kimberly Tyson, Planner II/Subdivision Administrator, Chatham County Planning Department Angela Plummer, Planner II/Zoning Administrator, Chatham County Planning Department Jason Sullivan, Director, Chatham County Planning Department Rachel Capito, Regulatory Project Manager, US Army Corps of Engineers, Raleigh Field Office Joesph Myers, Environmental Specialist, NCDEQ - Division of Water Resources Kristina Morales, Environmental Specialist, NCDEQ – Division of Water Resources





Legend



Stream SDA SDA01 Start Stream

Stream Form
 Marginal Stream / Marginal Wetland- Jurisdictional Waters of the U.S.; Subject to 50-Foot Chatham County Buffers
 Intermittent Stream - Jurisdictional Waters of the U.S.; Subject to 50-Foot Chatham County Buffers
 Perennial Stream - Jurisdictional Waters of the U.S.; Subject to 100-Foot Chatham County Buffers
 Wetlands - Jurisdictional Waters of the U.S.; Subject to 50-Foot Chatham County Buffers

Source: Esri, Digital Clobe, Geo Eye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, Aero GRID, IGN, and the GIS User Community

Ν

Map Location



Wetland Sketch Map

Hamlets Chapel Road Project Sage Project # 2020.005

Revised January 21, 2021



SAGE ECOLOGICA SERVICES EST. 2016

Figure 3

Drawn By: David Gainey

Sage Ecological Services, Inc. Office: 919-335-6757 Cell: 919-559-1537

U.S. Arm WETLAND DETERMINATION DATA S See ERDC/EL TR-07-24;	y Corps of Engine SHEET – Eastern Mou the proponent agen	ers ntains and Piedm cy is CECW-CC	ont Region)-R	OMB Control #: 0710-xxxx, Exp: Pending Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)			
Project/Site: Hamlets Chapel Road Proper	rty	City/County:	Pittsboro/Chath	nam Sampling Date: 10/12/22			
Applicant/Owner: TBM Partners				State: NC Sampling Point: DP-10			
Investigator(s): Darnell, Hamlin		Section. Townsh	nip. Range: Byn	um			
Landform (billside terrace etc.): billsione		Local relief (concav	e convex none	$\sum_{i=1}^{n}$			
Subragion (LDD or MLDA): LDD D. MLDA	126 Lat. 25 9012			Convex Stope (76). 0.3 284 Datum: NAD83			
Sublegion (LRR of MLRA). LRR P, MLRA	130 Lat. <u>35.6013</u>		Long79.13				
Soil Map Unit Name: Wedowee Sandy Loa	im						
Are climatic / hydrologic conditions on the si	ite typical for this time of	year? Y	'es <u>X</u> N	lo (If no, explain in Remarks.)			
Are Vegetation, Soil, or Hydr	ology significantly	v disturbed? Are	"Normal Circum	nstances" present? Yes X No			
Are Vegetation, Soil, or Hydr	ologynaturally pro	oblematic? (If r	needed, explain	any answers in Remarks.)			
SUMMARY OF FINDINGS – Attacl	h site map showing	g sampling poi	nt locations,	transects, important features, etc.			
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes X No Yes No X Yes No X	Is the Sample within a Wetla	d Area and?	Yes <u>No X</u>			
HYDROLOGY							
				andor (Indiactors (minimum of two required)			
Primary Indicators (minimum of one is requ	uired: check all that apply	<i>(</i>)	380	Surface Soil Cracks (B6)			
Surface Water (A1)	True Aquatic Plan	nts (B14)		Sparsely Vegetated Concave Surface (B8)			
High Water Table (A2)	Hydrogen Sulfide	Odor (C1)	(C1) Drainage Patterns (B10)				
Saturation (A3)	Oxidized Rhizosp	heres on Living Roo	s on Living Roots (C3) Moss Trim Lines (B16)				
Water Marks (B1)	Presence of Redu	uced Iron (C4)	on (C4) Dry-Season Water Table (C2)				
Sediment Deposits (B2)	Recent Iron Redu	ction in Tilled Soils	(C6)	Crayfish Burrows (C8)			
Drift Deposits (B3)	Thin Muck Surfac	e (C7)		Saturation Visible on Aerial Imagery (C9)			
Algal Mat of Crust (B4)	Other (Explain in	Remarks)		Stunted of Stressed Plants (D1)			
Inundation Visible on Aerial Imagery (F	37)			Shallow Aquitard (D3)			
Water-Stained Leaves (B9)				Microtopographic Relief (D4)			
Aquatic Fauna (B13)				FAC-Neutral Test (D5)			
Field Observations:							
Surface Water Present? Yes	No X Depth (in	nches):					
Water Table Present? Yes	No X Depth (in	nches):					
Saturation Present? Yes	No X Depth (in	nches):	Wetland Hydro	ology Present? Yes <u>No X</u>			
(includes capillary fringe)	antening						
Describe Recorded Data (stream gauge, m	nonitoring well, aerial pho	otos, previous inspec	ctions), if availab	iie:			
Remarks:							

VEGETATION (Four Strata) – Use scientific names of plants.

Sampling Point: DP-10

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Dominance Test worksheet:
1. Liriodendron tulipifera	30	Yes	FACU	Number of Dominant Species
2. Acer rubrum	10	Yes	FAC	That Are OBL, FACW, or FAC: 8 (A)
3. Pinus taeda	5	No	FAC	Total Number of Dominant
4. Quercus phellos	5	No	FAC	Species Across All Strata: 10 (B)
5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: 80.0% (A/B)
7				Prevalence Index worksheet:
	50	=Total Cover		Total % Cover of: Multiply by:
50% of total cover: 25	<u>;</u> 20%	of total cover:	10	OBL species 0 x 1 = 0
Sapling/Shrub Stratum (Plot size: 15)				FACW species 10 $x 2 = 20$
1. Acer rubrum	30	Yes	FAC	FAC species 100 x 3 = 300
2. Liquidambar styraciflua	10	Yes	FAC	FACU species 35 $x 4 = 140$
3. Vaccinium corymbosum	10	Yes	FACW	UPL species $0 \times 5 = 0$
4. <u>Carpinus caroliniana</u>	5	No	FAC	Column Totals: 145 (A) 460 (B)
5. <u>Ilex opaca</u>	5	No	FACU	Prevalence Index = B/A = 3.17
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				X 2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0'
	60	=Total Cover		4 - Morphological Adaptations' (Provide supporting
50% of total cover: <u>30</u>) 20%	of total cover:	12	data in Remarks or on a separate sneet)
Herb Stratum (Plot size: 5)				Problematic Hydrophytic Vegetation (Explain)
1. Smilax rotundifolia	5	Yes	FAC	¹ Indicators of hydric soil and wetland hydrology must be
2. Vitis rotundifolia	5	Yes	FAC	present, unless disturbed or problematic.
3. <u>Carex sp.</u>	5	Yes		Definitions of Four Vegetation Strata:
4				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
5				more in diameter at breast height (DBH), regardless or height
6				noigh
7				Sapling/Shrub – Woody plants, excluding vines, less
8				than 3 in. DBH and greater than or equal to 3.20 it (1 m) tall.
9				
10				Herb – All herbaceous (non-woody) plants, regardless
11				
	15	=Total Cover	-	Woody Vine – All woody vines greater than 3.28 tt in boight
50% of total cover: 8	20%	of total cover:	3	neight.
<u>Woody Vine Stratum</u> (Plot size: 15)				
1. Vitis rotundifolia	10	Yes	FAC	
2. Smilax rotundifolia	15	Yes	FAC	
3.				
4				
5				Hydrophytic
	25	=Total Cover		Vegetation
50% of total cover:	3 20%	of total cover:	5	Present? Yes <u>X</u> No
Remarks: (Include photo numbers here or on a sepa	rate sheet.)			

SOIL

Depth	Matrix		Redo	x Featur	es						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		R	emarks	
0-12	10YR 3/3	100					Loamy/Claye	У			
		·									
		·									
'Type: C=C	oncentration, D=Depl	etion, RM	=Reduced Matrix, N	/IS=Mas	ked Sand	l Grains.	² Loc	ation: PL=	Pore Lining	g, M=Matrix	<.
Hydric Soil	Indicators:							Indicators	for Proble	matic Hyd	Iric Soils'
Histosol	(A1)		Polyvalue Below Surface (S8) (MLRA 147, 148)					LRA 147, 148) 2 cm Muck (A10) (MLRA 1 4			7)
Histic Ep	oipedon (A2)		Thin Dark S	Thin Dark Surface (S9) (MLRA 147, 148)					Coast Prairie Redox (A16)		
Black Hi	istic (A3)		Loamy Mucl	ky Miner	al (F1) (N	ILRA 136)	(MLRA 147, 148)			
Hydroge	en Sulfide (A4)		Loamy Gley	ed Matri	x (F2)	2) Piedmont Floodplain Soils (F19			-19)		
Stratified	d Layers (A5)		Depleted Ma	atrix (F3)				(MLRA 136, 147)			
2 cm Mu	uck (A10) (LRR N)		Redox Dark	Surface	(F6)			Red Parent Material (F21)			
Depleted	d Below Dark Surface	e (A11)	Depleted Da	rk Surfa	ce (F7)			(out	side MLRA	127, 147,	148)
 Thick Da	Thick Dark Surface (A12)			essions	(F8)			Verv S	hallow Dar	k Surface (, F22)
Sandv N	/uckv Mineral (S1)		Iron-Mangar	ese Ma	sses (F12	2) (LRR N		Other	(Explain in	Remarks)	
Sandy G	Gleved Matrix (S4)		MLRA 13	5)		, (,		(,	
Sandy R	Redox (S5)		Limbric Surf	-, ace (F13		122 136)	³ Indicators	of hydroph	vtic vegeta	tion and
Oundy IN	Matrix (S6)		Piedmont Floodnlain Soils (F19) (MI RA 148) wetland hydrology mus						/ must be r		
Dark Su	rface (S7)		Red Parent Material (F21) (MI RA 127 147 148)					atic			
Bank ou				Material	(121)(11		147, 140)	dilleoo			
Restrictive	Layer (If observed):										
Type:											X
Depth (II	nches):						Hydric Soil F	resent?	Yes_	No	<u>X</u>

U.S. Army WETLAND DETERMINATION DATA S See ERDC/EL TR-07-24; th	OMB Control #: 0710-xxxx, Exp: Pending Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)					
Project/Site: Hamlets Chapel Road Property	y	City/County: Pittsboro/Ch	atham Sampling Date: 10/12/22			
Applicant/Owner: TBM Partners			State: NC Sampling Point: DP-11			
Investigator(s): Darnell, Hamlin		Section, Township, Range: B	Synum			
Landform (hillside terrace etc.): hillsione		cal relief (concave, convex, no	$re^{(\%)}$			
Subragion (LDD or MLDA): LDD D MLDA 1	26 Lot: 25 8025		1402 Dotum: NAD82			
	30 Lat. <u>33.6025</u>	Long79	Datum NAD83			
Soil Map Unit Name: Wedowee Sandy Loan	1		NWI classification: None			
Are climatic / hydrologic conditions on the site	e typical for this time of ye	ar? Yes <u>X</u>	No (If no, explain in Remarks.)			
Are Vegetation, Soil, or Hydro	logysignificantly di	sturbed? Are "Normal Circ	umstances" present? Yes X No			
Are Vegetation, Soil, or Hydro	logy naturally probl	lematic? (If needed, expla	in any answers in Remarks.)			
SUMMARY OF FINDINGS – Attach	site map showing	sampling point location	s, transects, important features, etc.			
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes X No Yes X No Yes X No	Is the Sampled Area within a Wetland?	Yes <u>X</u> No			
Remarks: Normal Conditions per Antecedent Precipita	tion Tool					
HYDROLOGY						
Wetland Hydrology Indicators:		<u>S</u>	econdary Indicators (minimum of two required)			
Primary Indicators (minimum of one is require	red; check all that apply)		Surface Soil Cracks (B6)			
Surface Water (A1)	True Aquatic Plants	(B14)	X Sparsely Vegetated Concave Surface (B8)			
High Water Table (A2)	Hydrogen Sulfide Od	dor (C1)	Drainage Patterns (B10)			
Saturation (A3)	Oxidized Rhizospher	res on Living Roots (C3)	Moss Trim Lines (B16)			
Sediment Deposits (B2)	Presence of Reduce	on in Tilled Soils (C6)	Cravitish Burrows (C8)			
X Drift Deposits (B3)	Thin Muck Surface ((C7)	Saturation Visible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	Other (Explain in Re	marks)	Stunted or Stressed Plants (D1)			
Iron Deposits (B5)		· _	X Geomorphic Position (D2)			
Inundation Visible on Aerial Imagery (B7	7)		Shallow Aquitard (D3)			
Water-Stained Leaves (B9)		_	Microtopographic Relief (D4)			
Aquatic Fauna (B13)			X FAC-Neutral Test (D5)			
Field Observations:						
Surface Water Present? Yes	No X Depth (inch	ies):				
Water Table Present? Yes	No X Depth (inch	ies):				
Saturation Present ? Yes	NO X Depth (Inch		arology Present? Yes X No			
Describe Recorded Data (stream dauge mo	nitoring well aerial photos	s previous inspections) if avai	lable:			
Remarks:						

VEGETATION (Four Strata) – Use scientific names of plants.

Sampling Point: DP-11

	Absolute	Dominant	Indicator	
<u>Tree Stratum</u> (Plot size: <u>30</u>)	% Cover	Species?	Status	Dominance Test worksheet:
1. Quercus phellos	40	Yes	FAC	Number of Dominant Species
2. Pinus taeda	5	No	FAC	That Are OBL, FACW, or FAC:5 (A)
3		. <u> </u>		Total Number of Dominant
4				Species Across All Strata: 6 (B)
5.				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: 83.3% (A/B)
7		. <u></u>		Prevalence Index worksheet:
	45	=Total Cover		Total % Cover of: Multiply by:
50% of total cover:	23 20%	of total cover:	9	OBL species 0 x 1 = 0
Sapling/Shrub Stratum (Plot size: 15)			FACW species 5 x 2 = 10
1. Pinus taeda	5	Yes	FAC	FAC species 60 x 3 = 180
2. Acer rubrum	5	Yes	FAC	FACU species 2 x 4 = 8
3. Quercus alba	2	No	FACU	UPL species 0 x 5 = 0
4.				Column Totals: 67 (A) 198 (B)
5				$\frac{1}{2} = \frac{1}{2} = \frac{1}$
6				
7				1 - Ranid Test for Hydrophytic Vegetation
·				Y 2 Deminance Test is 50%
o				\times 2 - Dominance rest is >50%
9				$\frac{1}{2}$ 3 - Prevalence index is ≤ 3.0
	12	= I otal Cover		4 - Morphological Adaptations' (Provide supporting
50% of total cover:	6 20%	of total cover:	3	
Herb Stratum (Plot size: 5)				Problematic Hydrophytic Vegetation (Explain)
1. Juncus effusus	5	Yes	FACW	¹ Indicators of hydric soil and wetland hydrology must be
2. Carex sp.	2	Yes		present, unless disturbed or problematic.
3.				Definitions of Four Vegetation Strata:
4.				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
5.				more in diameter at breast height (DBH), regardless of
6.				height.
7.				Sapling/Shrub – Woody plants, excluding vines, less
8.				than 3 in. DBH and greater than or equal to 3.28 ft
9.				(1 m) tall.
10				Herb - All berbaceous (non-woody) plants, regardless
11		·		of size, and woody plants less than 3.28 ft tall.
····		Total Cover		Weedy Vine All weedy vince greater than 2.29 ft in
	1 0000		0	height.
50% of total cover:	4 20%	of total cover:	Z	
Woody Vine Stratum (Plot size: 15)	_			
1. Smilax rotundifolia	5	Yes	FAC	
2				
3				
4				
5				Hydrophytic
	5	=Total Cover		Vegetation
50% of total cover:	3 20%	of total cover:	1	Present? Yes X No
Remarks: (Include photo numbers here or on a se	parate sheet.)			

Profile Desc	ription: (Describe	to the de	oth needed to doc	ument t	he indica	tor or co	onfirm the abser	nce of indicators.)
Depth (inchoo)	Matrix	0/	Redo	x Featur			Touturo	Demoria
(inches)		%		70	Туре	LOC	Texture	Remarks
0-6	10YR 6/1	95	10YR 6/6	5	С	Μ	Loamy/Clayey	Prominent redox concentrations
6-12	10YR 6/1	90	10YR 6/6	10	C	М	Loamy/Clayey	Prominent redox concentrations
						_		
				_				
	preentration D-Den	etion PM	-Reduced Matrix	15-Mas	ked Sand	Grains	2L 001	ation: PL-Pore Lining M-Matrix
	ndicators:			10-11183	Keu Gand	l Orains.	LUCA	ndicators for Problematic Hydric Soils ³ :
Histosol	(A1)		Polyvalue Br	alow Sur	face (S8		147 148)	2 cm Muck (A10) (MI RA 147)
Histic En	ipedon (A2)		Thin Dark St	urface (S	(MI R	A 147. 1	48)	Coast Prairie Redox (A16)
Black His	stic (A3)		Loamy Much	v Miner	al (F1) (N	II RA 136		(MI RA 147, 148)
Hydroge	n Sulfide (A4)		Loamy Glev	ed Matri	x (F2)		-,	Piedmont Floodolain Soils (F19)
Stratified	Lavers (A5)		X Depleted Ma	atrix (F3)	x (i _)		-	(MI RA 136, 147)
2 cm Mu	ck (A10) (I RR N)		Redox Dark	Surface	(F6)			Red Parent Material (F21)
Depleted	Below Dark Surface	e (A11)	Depleted Da	rk Surfa	(. c) ce (F7)		-	(outside MLRA 127, 147, 148)
Thick Da	rk Surface (A12)	,,,,,,,	Redox Depr	essions	(F8)			Very Shallow Dark Surface (F22)
Sandy M	ucky Mineral (S1)		Iron-Mangar	nese Ma	sses (F12			Other (Explain in Remarks)
Sandy G	leved Matrix (S4)		MLRA 13	6)		., (-, _	
Sandy R	edox (S5)		Umbric Surfa	-, ace (F13		122, 136	5) ³	Indicators of hydrophytic vegetation and
Stripped	Matrix (S6)		Piedmont Floodnlain Soils (F19) (MI RA 148) wetland hydrology must be n					
Dark Sur	face (S7)		Red Parent Material (F21) (MLRA 127, 147, 148) unless disturbed or problem					unless disturbed or problematic.
Restrictive L	ayer (if observed):							
Type:	/							
Depth (inches):						Hydric Soil P	resent? Yes X No	
Remarks:								

U.S. Army Corps of EngineersOMB Control #: 0710-xxxx, Exp: Pending Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)See ERDC/EL TR-07-24; the proponent agency is CECW-CO-ROMB Control #: 0710-xxxx, Exp: Pending Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)								
Project/Site: Hamlets Chapel Road Property Applicant/Owner: TBM Partners	City/County: Pittsboro/Chat	ham Sampling Date: <u>10/12/22</u> State: NC Sampling Point: DP-12						
Investigator(s): Damell Hamlin	Section Township Range: Pitt							
Londform (hilloide terrose etc.): Droipage								
	_Local relief (concave, convex, none	Sippe (%): 0-4						
Subregion (LRR or MLRA): LRR P, MLRA 136 Lat: 35.8013	Long: -79.1	Datum: NAD83						
Soil Map Unit Name: Wedowee Sandy Loam		NWI classification: None						
Are climatic / hydrologic conditions on the site typical for this time of	of year? Yes X	lo (If no, explain in Remarks.)						
Are Vegetation, Soil, or Hydrologysignificant	ly disturbed? Are "Normal Circur	nstances" present? Yes X No						
Are Vegetation, Soil, or Hydrologynaturally p	roblematic? (If needed, explain	any answers in Remarks.)						
SUMMARY OF FINDINGS – Attach site map showin	ng sampling point locations	, transects, important features, etc.						
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area							
Hydric Soil Present? Yes No X	within a Wetland?	Yes NoX						
Wetland Hydrology Present? Yes No X	_							
Wetland Hydrology Indicators:	Sec	condary Indicators (minimum of two required)						
Primary Indicators (minimum of one is required; check all that app	ly)	Surface Soil Cracks (B6)						
High Water Table (A2)		Drainage Patterns (B10)						
Saturation (A3) Oxidized Rhizos	pheres on Living Roots (C3)	Moss Trim Lines (B16)						
Water Marks (B1) Presence of Rec	luced Iron (C4)	Dry-Season Water Table (C2)						
Sediment Deposits (B2) Recent Iron Red	uction in Tilled Soils (C6)	Crayfish Burrows (C8)						
Drift Deposits (B3)Thin Muck Surfa	ce (C7)	Saturation Visible on Aerial Imagery (C9)						
Algal Mat or Crust (B4)Other (Explain in	Remarks)	Stunted or Stressed Plants (D1)						
Iron Deposits (B5)		Geomorphic Position (D2)						
Inundation Visible on Aerial Imagery (B7)		Shallow Aquitard (D3)						
Aquatic Fauna (B13)		FAC-Neutral Test (D5)						
Field Observations:								
Surface Water Present? Yes No X Depth (i	nches):							
Water Table Present? Yes No X Depth (i	nches):							
Saturation Present? Yes No X Depth (nches): Wetland Hydr	ology Present? Yes <u>No X</u>						
(includes capillary fringe)								
Describe Recorded Data (stream gauge, monitoring well, aerial ph	otos, previous inspections), if availa	ble:						
Demorke								
Tromanto.								

VEGETATION (Four Strata) – Use scientific names of plants.

Sampling Point: DP-12

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Dominance Test worksheet:
1. Pinus taeda	10	No	FAC	Number of Dominant Species
2. Acer rubrum	15	Yes	FAC	That Are OBL, FACW, or FAC: 3 (A)
3. Liquidambar styraciflua	10	No	FAC	Total Number of Dominant
4. Quercus rubra	10	No	FACU	Species Across All Strata: 6 (B)
5. Quercus alba	20	Yes	FACU	Percent of Dominant Species
6.				That Are OBL, FACW, or FAC: 50.0% (A/B)
7.				Prevalence Index worksheet:
	65	=Total Cover		Total % Cover of: Multiply by:
50% of total cover: 33	20%	of total cover:	13	OBL species 0 $x 1 = 0$
Sapling/Shrub Stratum (Plot size: 15)				FACW species $0 x 2 = 0$
1. Quercus phellos	15	Yes	FAC	FAC species 75 x 3 = 225
2 Liquidambar styraciflua	10	Yes	FAC	FACU species $42 \times 4 = 168$
3			17.0	$110 \text{ species} \qquad 12 \qquad x = 700$
а				Column Totale: 257 (A) 1093 (B)
4		·		$\frac{1}{257} \frac{1}{1000} \frac{1}{1000}$
		<u> </u>		
6		·		Hydropnytic vegetation indicators:
<i>[</i>				1 - Rapid Test for Hydrophytic vegetation
8				2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0'
	25	=Total Cover		4 - Morphological Adaptations' (Provide supporting
50% of total cover: 13	20%	of total cover:	5	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5)				Problematic Hydrophytic Vegetation ¹ (Explain)
1. Lonicera japonica	5	No	FACU	¹ Indicators of hydric soil and wetland hydrology must
2. Wisteria sinensis	60	Yes	UPL	be present, unless disturbed or problematic.
3. Parthenocissus quinquefolia	5	No	FACU	Definitions of Four Vegetation Strata:
4.				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
5.				more in diameter at breast height (DBH), regardless of
6.				height.
7.				Sanling/Shrub – Woody plants, excluding vines, less
8.				than 3 in. DBH and greater than or equal to 3.28 ft
9.				(1 m) tall.
10				Herb – All herbaceous (non-woody) plants, regardless
11				of size, and woody plants less than 3.28 ft tall.
···· ·	70	-Total Cover		Woody Vine – All woody vines greater than 3 28 ft in
50% of total cover 35	20%	of total cover:	14	height.
Woody Vine Stratum (Plot size: 15)			14	
<u>Woody vine stratum</u> (Flot size,	<u>م</u>	Voc	IDI	
	40			
2. Smilax rotundirolla	- 10		FAC	
	5	NO	FAC	
4. Lonicera japonica	2	NO	FACU	
5				Hydrophytic
	97	=Total Cover		Vegetation
50% of total cover: 49	20%	of total cover:	20	Present? Yes No X
Remarks: (Include photo numbers here or on a separ	ate sheet.)			•

SOIL

Depth	Matrix		Redo	x Featur	es				Success)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Ren	narks
0-12	10YR 5/4	100								
						<u> </u>				
¹ Type: C=Co	ncentration, D=Depl	etion, RM=	Reduced Matrix, N	/IS=Mas	ked San	d Grains.	² Loc	ation: PL=F	Pore Lining, N	/I=Matrix.
Hydric Soil Ir	ndicators:							Indicators	or Problema	atic Hydric Soils':
Histosol (A1)		Polyvalue B	elow Su	face (S8) (MLRA ′	47, 148)	2 cm M	uck (A10) (M	LRA 147)
Histic Epi	pedon (A2)		Thin Dark S	urface (S	69) (MLR	A 147, 14	·8)	Coast F	Prairie Redox	(A16)
Black His	tic (A3)		Loamy Much	y Miner	al (F1) (N	ILRA 136)	(MLR	A 147, 148)	0 1 (540)
Hydrogen	Sulfide (A4)		Loamy Gley	ed Matri	x (F2)		-	Piedmo	nt Floodplain	Solis (F19)
Stratified			Depleted IVia	Surface	(50)				A 130, 147)	(E04)
2 cm Muc	K (ATU) (LKK N) Below Dark Surface	(Δ11)	Redux Dark	Sunace	(F0) ce (F7)		-	Red Pa	ide MI PA 12	(FZI) 7 147 148)
Depleted	k Surface (A12)	(ATT)	Depleted Da	essions	(F8)			Verv Sh	allow Dark S	urface (F22)
Sandy Mu	ucky Mineral (S1)		Iron-Mangar	ese Ma	sses (F1)	2) (LRR N		Other (E	Explain in Re	marks)
Sandy Gl	eved Matrix (S4)		MLRA 13	5)		-, (, -			···,
Sandy Re	edox (S5)		Umbric Surf	-, ace (F13	B) (MLRA	122, 136)	³ Indicators of	of hydrophytic	vegetation and
Stripped I	Matrix (S6)		Piedmont FI	oodplain	Soils (F	19) (MLR	, A 148)	wetland	hydrology m	ust be present,
Dark Surf	ace (S7)		Red Parent	Material	(F21) (LRA 127,	147, 148)	unless o	disturbed or p	oroblematic.
Restrictive L	aver (if observed):									
Type:	, ,									
Depth (inc	ches):						Hydric Soil F	resent?	Yes	No X
Remarks:										

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Eastern Mountains and Piedmont Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R							
Project/Site: Hamlets Chapel Road Property Applicant/Owner: TBM Partners	City/County: Pittsboro/Chat	ham Sampling Date: 10/12/22 State: NC Sampling Point: DP-13					
	Section Township Bongo: Ditt						
Investigator(s): Dameil, Hamiin	Section, Township, Range: Pitt						
Landrorm (niliside, terrace, etc.): Drainage		e): <u>Concave</u> Slope (%): <u>0-4</u>					
Subregion (LRR or MLRA): LRR P, MLRA 136 Lat: 35.806	5 Long: -79.1	Datum: NAD83					
Soil Map Unit Name: Wedowee Sandy Loam		NWI classification: None					
Are climatic / hydrologic conditions on the site typical for this tin	ne of year? Yes X I	No (If no, explain in Remarks.)					
Are Vegetation, Soil, or Hydrologysignific	antly disturbed? Are "Normal Circui	mstances" present? Yes X No					
Are Vegetation, Soil, or Hydrologynatural	ly problematic? (If needed, explain	any answers in Remarks.)					
SUMMARY OF FINDINGS – Attach site map sho	wing sampling point locations	s, transects, important features, etc.					
Hydrophytic Vegetation Present? Yes No	X Is the Sampled Area						
Hydric Soil Present? Yes No	X within a Wetland?	Yes <u>No X</u>					
Wetland Hydrology Present? Yes No	<u>x</u>						
HYDROLOGY							
Wetland Hydrology Indicators:	See	condary Indicators (minimum of two required)					
Primary Indicators (minimum of one is required; check all that	apply)	Surface Soil Cracks (B6)					
High Water Table (A2)	$\frac{1}{1}$	Drainage Patterns (B10)					
Saturation (A3) Oxidized Rhi	zospheres on Living Roots (C3)	Moss Trim Lines (B16)					
Water Marks (B1) Presence of	Reduced Iron (C4)	Dry-Season Water Table (C2)					
Sediment Deposits (B2) Recent Iron F	Reduction in Tilled Soils (C6)	Crayfish Burrows (C8)					
Drift Deposits (B3) Thin Muck Se	urface (C7)	Saturation Visible on Aerial Imagery (C9)					
Algal Mat or Crust (B4)Other (Explain	in in Remarks)	Stunted or Stressed Plants (D1)					
Iron Deposits (B5)		Geomorphic Position (D2)					
Water-Stained Leaves (B9)	—	Microtopographic Relief (D4)					
Aquatic Fauna (B13)		FAC-Neutral Test (D5)					
Field Observations:							
Surface Water Present? Yes No X Dep	th (inches):						
Water Table Present? Yes No X Dep	th (inches):						
Saturation Present? Yes No X Dep	th (inches): Wetland Hydi	rology Present? Yes <u>No X</u>					
(includes capillary fringe)		bla.					
Describe Recorded Data (stream gauge, monitoring well, aena	ii protos, previous inspections), ii availa	die.					
Remarks:							

VEGETATION (Four Strata) – Use scientific names of plants.

Sampling Point: DP-13

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Dominance Test worksheet:
1. Pinus taeda	5	No	FAC	Number of Dominant Species
2. Acer rubrum	20	Yes	FAC	That Are OBL, FACW, or FAC: (A)
3. Liquidambar styraciflua	10	No	FAC	Total Number of Dominant
4. Quercus rubra	15	Yes	FACU	Species Across All Strata: 8 (B)
5. Quercus alba	20	Yes	FACU	Percent of Dominant Species
6.				That Are OBL, FACW, or FAC: 50.0% (A/B)
7.				Prevalence Index worksheet:
	70	=Total Cover		Total % Cover of: Multiply by:
50% of total cover: 3	5 20%	of total cover:	14	OBL species 0 x 1 = 0
Sapling/Shrub Stratum (Plot size: 15)				FACW species 0 x 2 = 0
1. Quercus phellos	15	Yes	FAC	FAC species 72 x 3 = 216
2. Liquidambar styraciflua	10	Yes	FAC	FACU species 42 x 4 = 168
3. Carva tomentosa	15	Yes	UPL	UPL species $77 \times 5 = 385$
4				Column Totals: 191 (A) 769 (B)
5.				$\frac{1}{2} = \frac{1}{2} = \frac{1}$
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydronhytic Vegetation
· · · · · · · · · · · · · · · · · · ·				2 Dominance Test in > 50%
8		. <u> </u>		2 - Dominance Test is > 50%
9				3 - Prevalence Index Is ≤3.0
	40	= I otal Cover		4 - Morphological Adaptations (Provide supporting
50% of total cover: 20) 20%	of total cover:	8	
Herb Stratum (Plot size: 5)				Problematic Hydrophytic Vegetation' (Explain)
1. Lonicera japonica	5	No	FACU	¹ Indicators of hydric soil and wetland hydrology must
2. Wisteria sinensis	60	Yes	UPL	be present, unless disturbed or problematic.
3				Definitions of Four Vegetation Strata:
4.				Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
5				more in diameter at breast height (DBH), regardless of
6				height.
7				Sapling/Shrub – Woody plants, excluding vines, less
8.				than 3 in. DBH and greater than or equal to 3.28 ft
9.				(1 m) tall.
10.				Herb – All herbaceous (non-woody) plants, regardless
11.				of size, and woody plants less than 3.28 ft tall.
	65	=Total Cover		Woody Vine – All woody vines greater than 3.28 ft in
50% of total cover: 33	3 20%	of total cover:	13	height.
Woody Vine Stratum (Plot size: 15)				
1. Wisteria sinensis	2	No	UPI	
2 Smilax rotundifolia	10	Yes	FAC	
3 Toxicodendron radicans	2	<u> </u>	FAC	
	2	No	FACU	
		110	1 400	
J	10	Total Cavar		Hydrophytic
	10		4	Vegetation
50% of total cover: 8	20%	of total cover:	4	Present? Yes <u>NO X</u>
Remarks: (Include photo numbers here or on a sepa	rate sheet.)			

SOIL

(inchoc)	Matrix		Redo	x Featur	es				······,		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Rem	narks	
0-12	10YR 4/4	100									
4							2				
Type: C=Co	oncentration, D=Depl	etion, RM=	Reduced Matrix, I	MS=Masl	ked Sand	d Grains.	² Loca	ation: PL=P	ore Lining, N	I=Matrix.	a 11 3
Hydric Soil	Indicators:				(0.0)			ndicators fo	or Problema	tic Hydric	Soils":
Histosol	(A1)		Polyvalue B	elow Sur	face (S8)) (MLRA 1	147, 148) <u> </u>	2 cm Mu	ick (A10) (ML	_RA 147)	
Histic Ep	olpedon (A2)		I hin Dark S	urtace (S	9) (MLR	A 147, 14	·8) _	Coast Pi	rairie Redox	(A16)	
Black Hi	SUC (A3) Sulfido (A4)			ky Minera	ai(F1) (N ∠(⊑2)	ILKA 136)	(MLRA	147, 148)	Soile (E40	
Hydroge	n Suinde (A4)		Loamy Gley	ed Matrix	(FZ)		_	Pleamor		501IS (F19)
Stratified	Layers (A3)		Depieted Wa	Surface	(E6)				ant Material ((E21)	
2 cm we	Below Dark Surface	(A11)	Depleted Dark	ounace rk Surfa	(F7)		_		de MI RA 12	7. 147. 14	8)
Thick Da	ark Surface (A12)	,,,,,,,	Redox Depr	essions ((F8)			Very Sha	allow Dark Si	urface (F2	2)
Sandy M	lucky Mineral (S1)		Iron-Mangar	nese Mas	ses (F12	2) (LRR N	.,	Other (E	xplain in Rer	narks)	,
Sandy G	ileyed Matrix (S4)		MLRA 13	6)	,	<i>,</i> ,	· _	,	•	,	
Sandy R	edox (S5)		Umbric Surf	ace (F13) (MLRA	122, 136) 3	Indicators o	f hydrophytic	vegetation	n and
Stripped	Matrix (S6)		Piedmont Fl	oodplain	Soils (F	19) (MLR	A 148)	wetland	hydrology mu	ust be pres	sent,
Dark Su	rface (S7)		Red Parent	Material	(F21) (M	LRA 127,	147, 148)	unless d	isturbed or p	roblematic	
Restrictive	Layer (if observed):										
Type:											
Depth (ir	nches):						Hydric Soil P	resent?	Yes	No	Х
Remarks:											

SFSC10

Date: 10/12/2022			Project/Site	[:] Hamlets Chapel Assemblage	Latitude: 35.8000
Evaluator:	K. Hamlin, C. D	arnell	County:	Chatham	Longitude: -79.1417
Total Points: Stream is at least in ≥19 or perennial if	termittent if ≥30	5.5	Stream Dete	ermination: Ephemeral	Other: e.g. Quad Name: Bynum, NC 1:24K

A. Geomorphology (Subtotal $=5$)	Absent	Weak	Moderate	Strong	SCORE
1 ^a . Continuous bed and bank	0	1	2	3	0
2. Sinuosity of channel along thalweg	0	1	2	3	1
3. In-Channel structure: ex. riffle-pool, step-pool, ripple- pool sequence	0	1	2	3	1
4. Particle size of stream substrate	0	1	2	3	1
5. Active/relic floodplain	0	1	2	3	0
6. Depositional bars or benches	0	1	2	3	0
7. Recent alluvial deposits	0	1	2	3	0
8. Headcuts	0	1	2	3	1
9. Grade controls	0	0.5	1	1.5	0.5
10. Natural valley	0	0.5	1	1.5	0.5
11. Second or greater order channel	No	= 0	Yes = 3		0

^a artificial ditches are not rated; see discussions in manual.

B. Hydrology (Subtotal $= \frac{0.5}{0.5}$)	Absent	Weak	Moderate	Strong	SCORE
12. Presence of Baseflow	0	1	2	3	0
13. Iron oxidizing bacteria	0	1	2	3	0
14. Leaflitter	1.5	1	0.5	0	0
15. Sediment on plants or debris	0	0.5	1	1.5	0
16. Organic debris lines or piles	0	0.5	1	1.5	0.5
17. Soil-based evidence of high water table?	No :	= 0	Yes =	= 3	0

C. Biology (Subtotal = 0)	Absent	Weak	Moderate	Strong	SCORE
18. Fibrous roots in streambed	3	2	1	0	0
19. Rooted upland plants in streambed	3	2	1	0	0
20. Macrobenthos (note diversity and abundance)	0	1	2	3	0
21. Aquatic Mollusks	0	1	2	3	0
22. Fish	0	0.5	1	1.5	0
23. Crayfish	0	0.5	1	1.5	0
24. Amphibians	0	0.5	1	1.5	0
25. Algae	0	0.5	1	1.5	0
26. Wetland plants in streambed	FACW	=0.75; OBL	=1.5 Other=0		0

*perennial stream may also be identified using other methods. See p.35 of manual.

Notes:	Bank Height (feet)	0-0.5	
	Bankfull Width (feet)	3	
	Water Depth (inches)	0	

SFSD01

^{Date:} 10/12/2022			Project/Site	[:] Hamlets Chapel Assemblage	Latitude: 35.8084	
Evaluator:	K. Hamlin, C. D	arnell	County: Chatham		Longitude: _{-79.1398}	
Total Points: Stream is at least ir ≥19 or perennial if	termittent if ≥30	28.5	Stream Dete	ermination: Intermittent	Other: ^{e.g.} Quad Name: Bynum, NC 1:24K	

A. Geomorphology (Subtotal = $\frac{16}{10}$)	Absent	Weak	Moderate	Strong	SCORE
1 ^a . Continuous bed and bank	0	1	2	3	3
2. Sinuosity of channel along thalweg	0	1	2	3	2
3. In-Channel structure: ex. riffle-pool, step-pool, ripple- pool sequence	0	1	2	3	1
4. Particle size of stream substrate	0	1	2	3	2
5. Active/relic floodplain	0	1	2	3	3
6. Depositional bars or benches	0	1	2	3	2
7. Recent alluvial deposits	0	1	2	3	2
8. Headcuts	0	1	2	3	0
9. Grade controls	0	0.5	1	1.5	0
10. Natural valley	0	0.5	1	1.5	1
11. Second or greater order channel	No	= 0	Yes = 3		0

^a artificial ditches are not rated; see discussions in manual.

B. Hydrology (Subtotal $=\frac{8.5}{3}$)	Absent	Weak	Moderate	Strong	SCORE
12. Presence of Baseflow	0	1	2	3	3
13. Iron oxidizing bacteria	0	1	2	3	0
14. Leaflitter	1.5	1	0.5	0	1
15. Sediment on plants or debris	0	0.5	1	1.5	1
16. Organic debris lines or piles	0	0.5	1	1.5	0.5
17. Soil-based evidence of high water table?	No :	= 0	Yes =	: 3	3

C. Biology (Subtotal = 4)	Absent	Weak	Moderate	Strong	SCORE
18. Fibrous roots in streambed	3	2	1	0	1
19. Rooted upland plants in streambed	3	2	1	0	3
20. Macrobenthos (note diversity and abundance)	0	1	2	3	0
21. Aquatic Mollusks	0	1	2	3	0
22. Fish	0	0.5	1	1.5	0
23. Crayfish	0	0.5	1	1.5	0
24. Amphibians	0	0.5	1	1.5	0
25. Algae	0	0.5	1	1.5	0
26. Wetland plants in streambed	FACW	=0.75; OBL	=1.5 Other=0		0

*perennial stream may also be identified using other methods. See p.35 of manual.

Notes:	Bank Height (feet)	1
	Bankfull Width (feet)	5
	Water Depth (inches)	2

SFSDB10

Date: 10/12/2022			Project/Site	Hamlets Chapel Assemblage	Latitude: 35.35.8008	
Evaluator:	valuator: K. Hamlin, C. Darnell		County:	Chatham	Longitude: -79.1418	
Total Points: Stream is at least in ≥19 or perennial if	termittent if ≥30	7	Stream Dete	ermination: Ephemeral	Other: e.g. Quad Name: Bynum, NC 1:24K	

A. Geomorphology (Subtotal = ⁷)	Absent	Weak	Moderate	Strong	SCORE
1 ^a . Continuous bed and bank	0	1	2	3	2
2. Sinuosity of channel along thalweg	0	1	2	3	0
3. In-Channel structure: ex. riffle-pool, step-pool, ripple- pool sequence	0	1	2	3	1
4. Particle size of stream substrate	0	1	2	3	1
5. Active/relic floodplain	0	1	2	3	0
6. Depositional bars or benches	0	1	2	3	0
7. Recent alluvial deposits	0	1	2	3	0
8. Headcuts	0	1	2	3	1
9. Grade controls	0	0.5	1	1.5	1
10. Natural valley	0	0.5	1	1.5	1
11. Second or greater order channel	No	= 0	Yes = 3		0

^a artificial ditches are not rated; see discussions in manual.

B. Hydrology (Subtotal $=^0$)	Absent	Weak	Moderate	Strong	SCORE
12. Presence of Baseflow		1	2	3	0
13. Iron oxidizing bacteria	0	1	2	3	0
14. Leaflitter	1.5	1	0.5	0	0
15. Sediment on plants or debris	0	0.5	1	1.5	0
16. Organic debris lines or piles	0	0.5	1	1.5	0
17. Soil-based evidence of high water table?	No = 0		Yes = 3		0

C. Biology (Subtotal = 0)	Absent	Weak	Moderate	Strong	SCORE
18. Fibrous roots in streambed	3	2	1	0	0
19. Rooted upland plants in streambed	3	2	1	0	0
20. Macrobenthos (note diversity and abundance)	0	1	2	3	0
21. Aquatic Mollusks	0	1	2	3	0
22. Fish	0	0.5	1	1.5	0
23. Crayfish	0	0.5	1	1.5	0
24. Amphibians	0	0.5	1	1.5	0
25. Algae	0	0.5	1	1.5	0
26. Wetland plants in streambed	FACW=0.75; OBL=1.5 Other=0				0

*perennial stream may also be identified using other methods. See p.35 of manual.

Notes:	Bank Height (feet)	0.5
	Bankfull Width (feet)	4
	Water Depth (inches)	0

SFSDB11

^{Date:} 10/12/2022			Project/Site	[:] Hamlets Chapel Assemblage	Latitude: 35.8011	
Evaluator:	K. Hamlin, C. D	arnell	County:	Chatham	Longitude: _{-79.1414}	
Total Points: Stream is at least in ≥19 or perennial if	ttermittent if ≥30	10	Stream Dete	ermination: Ephemeral	Other: ^{e.g. Quad Name} : Bynum, NC 1:24K	

A. Geomorphology (Subtotal $=5.5$)	Absent	Weak	Moderate	Strong	SCORE
1 ^a . Continuous bed and bank	0	1	2	3	2
2. Sinuosity of channel along thalweg	0	1	2	3	2
3. In-Channel structure: ex. riffle-pool, step-pool, ripple- pool sequence	0	1	2	3	0
4. Particle size of stream substrate	0	1	2	3	0
5. Active/relic floodplain	0	1	2	3	0
6. Depositional bars or benches	0	1	2	3	0
7. Recent alluvial deposits	0	1	2	3	0
8. Headcuts	0	1	2	3	1
9. Grade controls	0	0.5	1	1.5	0
10. Natural valley	0	0.5	1	1.5	0.5
11. Second or greater order channel	No	= 0	Yes = 3		0

^a artificial ditches are not rated; see discussions in manual.

B. Hydrology (Subtotal $=\frac{3.5}{3.5}$)	Absent	Weak	Moderate	Strong	SCORE
12. Presence of Baseflow		1	2	3	0
13. Iron oxidizing bacteria	0	1	2	3	0
14. Leaflitter	1.5	1	0.5	0	0
15. Sediment on plants or debris	0	0.5	1	1.5	0.5
16. Organic debris lines or piles	0	0.5	1	1.5	0
17. Soil-based evidence of high water table?	No = 0		Yes = 3		3

C. Biology (Subtotal = 1)	Absent	Weak	Moderate	Strong	SCORE
18. Fibrous roots in streambed	3	2	1	0	0
19. Rooted upland plants in streambed	3	2	1	0	1
20. Macrobenthos (note diversity and abundance)	0	1	2	3	0
21. Aquatic Mollusks	0	1	2	3	0
22. Fish	0	0.5	1	1.5	0
23. Crayfish	0	0.5	1	1.5	0
24. Amphibians	0	0.5	1	1.5	0
25. Algae	0	0.5	1	1.5	0
26. Wetland plants in streambed	FACW=0.75; OBL=1.5 Other=0				0

*perennial stream may also be identified using other methods. See p.35 of manual.

Notes:	Bank Height (feet)	0.25
	Bankfull Width (feet)	4
	Water Depth (inches)	0

SFSDB12

^{Date:} 10/12/2022			Project/Site	Hamlets Chapel Assemblage	Latitude: 35.8013	
Evaluator: K. Hamlin, C. Darnell		County:	Chatham	Longitude: -79.1398		
Total Points: Stream is at least in ≥19 or perennial if	termittent if ≥30	8.5	Stream Dete	ermination: Ephemeral	Other: e.g. Quad Name : Bynum, NC 1:24K	

A. Geomorphology (Subtotal $= \frac{5.5}{2}$)	Absent	Weak	Moderate	Strong	SCORE
1 ^a . Continuous bed and bank	0	1	2	3	3
2. Sinuosity of channel along thalweg	0	1	2	3	2
3. In-Channel structure: ex. riffle-pool, step-pool, ripple- pool sequence	0	1	2	3	0
4. Particle size of stream substrate	0	1	2	3	0
5. Active/relic floodplain	0	1	2	3	0
6. Depositional bars or benches	0	1	2	3	0
7. Recent alluvial deposits	0	1	2	3	0
8. Headcuts	0	1	2	3	0
9. Grade controls	0	0.5	1	1.5	0
10. Natural valley	0	0.5	1	1.5	0.5
11. Second or greater order channel		= 0	Yes = 3		0

^a artificial ditches are not rated; see discussions in manual.

B. Hydrology (Subtotal $=3$)	Absent	Weak	Moderate	Strong	SCORE
12. Presence of Baseflow		1	2	3	0
13. Iron oxidizing bacteria	0	1	2	3	0
14. Leaflitter	1.5	1	0.5	0	0
15. Sediment on plants or debris	0	0.5	1	1.5	0
16. Organic debris lines or piles	0	0.5	1	1.5	0
17. Soil-based evidence of high water table?	No = 0		Yes = 3		3

C. Biology (Subtotal = 0)	Absent	Weak	Moderate	Strong	SCORE
18. Fibrous roots in streambed	3	2	1	0	0
19. Rooted upland plants in streambed	3	2	1	0	0
20. Macrobenthos (note diversity and abundance)	0	1	2	3	0
21. Aquatic Mollusks	0	1	2	3	0
22. Fish	0	0.5	1	1.5	0
23. Crayfish	0	0.5	1	1.5	0
24. Amphibians	0	0.5	1	1.5	0
25. Algae	0	0.5	1	1.5	0
26. Wetland plants in streambed	FACW=0.75; OBL=1.5 Other=0			0	

*perennial stream may also be identified using other methods. See p.35 of manual.

Notes:	Bank Height (feet)	1
	Bankfull Width (feet)	5
	Water Depth (inches)	0

SFSDB13

^{Date:} 10/12/	2022		Project/Site	Hamlets Chapel Assemblage	Latitude: 35.8015
Evaluator:	K. Hamlin, C. D	arnell	County:	Chatham	Longitude: _{-79.1398}
Total Points: Stream is at least in ≥19 or perennial if	termittent if ≥30	9	Stream Dete	ermination: Ephemeral	Other: e.g. Quad Name : Bynum, NC 1:24K

A. Geomorphology (Subtotal $=4$)	Absent	Weak	Moderate	Strong	SCORE
1 ^a . Continuous bed and bank	0	1	2	3	2
2. Sinuosity of channel along thalweg	0	1	2	3	0
3. In-Channel structure: ex. riffle-pool, step-pool, ripple- pool sequence	0	1	2	3	0
4. Particle size of stream substrate	0	1	2	3	0
5. Active/relic floodplain	0	1	2	3	0
6. Depositional bars or benches	0	1	2	3	0
7. Recent alluvial deposits	0	1	2	3	1
8. Headcuts	0	1	2	3	1
9. Grade controls	0	0.5	1	1.5	0
10. Natural valley	0	0.5	1	1.5	0
11. Second or greater order channel	No	= 0	Yes = 3		0

^a artificial ditches are not rated; see discussions in manual.

B. Hydrology (Subtotal $=3$)	Absent	Weak	Moderate	Strong	SCORE
12. Presence of Baseflow	0	1	2	3	0
13. Iron oxidizing bacteria	0	1	2	3	0
14. Leaflitter	1.5	1	0.5	0	0
15. Sediment on plants or debris	0	0.5	1	1.5	0
16. Organic debris lines or piles	0	0.5	1	1.5	0
17. Soil-based evidence of high water table?	No :	= 0	Yes =	- 3	3

C. Biology (Subtotal = 2)	Absent	Weak	Moderate	Strong	SCORE
18. Fibrous roots in streambed	3	2	1	0	1
19. Rooted upland plants in streambed	3	2	1	0	1
20. Macrobenthos (note diversity and abundance)	0	1	2	3	0
21. Aquatic Mollusks	0	1	2	3	0
22. Fish	0	0.5	1	1.5	0
23. Crayfish	0	0.5	1	1.5	0
24. Amphibians	0	0.5	1	1.5	0
25. Algae	0	0.5	1	1.5	0
26. Wetland plants in streambed	FACW=0.75; OBL=1.5 Other=0			0	

*perennial stream may also be identified using other methods. See p.35 of manual.

Notes:	Bank Height (feet)	0-2
	Bankfull Width (feet)	5
	Water Depth (inches)	0

SFSE01

Date: 10/12/	/2022		Project/Site	[:] Hamlets Chapel Assemblage	Latitude: 35.8003
Evaluator:	K. Hamlin, C. D	arnell	County:	Chatham	Longitude: -79.1381
Total Points: Stream is at least ir ≥19 or perennial if	ttermittent if ≥30	7	Stream Dete	ermination: Ephemeral	Other: e.g. Quad Name: Bynum, NC 1:24K

A. Geomorphology (Subtotal $=4$)	Absent	Weak	Moderate	Strong	SCORE
1 ^a . Continuous bed and bank	0	1	2	3	3
2. Sinuosity of channel along thalweg	0	1	2	3	1
3. In-Channel structure: ex. riffle-pool, step-pool, ripple- pool sequence	0	1	2	3	0
4. Particle size of stream substrate	0	1	2	3	0
5. Active/relic floodplain	0	1	2	3	0
6. Depositional bars or benches	0	1	2	3	0
7. Recent alluvial deposits	0	1	2	3	0
8. Headcuts	0	1	2	3	0
9. Grade controls	0	0.5	1	1.5	0
10. Natural valley	0	0.5	1	1.5	0
11. Second or greater order channel	No	= 0	Yes = 3	-	0

^a artificial ditches are not rated; see discussions in manual.

B. Hydrology (Subtotal $=3$)	Absent	Weak	Moderate	Strong	SCORE
12. Presence of Baseflow	0	1	2	3	0
13. Iron oxidizing bacteria	0	1	2	3	0
14. Leaflitter	1.5	1	0.5	0	0
15. Sediment on plants or debris	0	0.5	1	1.5	0
16. Organic debris lines or piles	0	0.5	1	1.5	0
17. Soil-based evidence of high water table?	No :	= 0	Yes =	- 3	3

C. Biology (Subtotal = 0)	Absent	Weak	Moderate	Strong	SCORE
18. Fibrous roots in streambed	3	2	1	0	0
19. Rooted upland plants in streambed	3	2	1	0	0
20. Macrobenthos (note diversity and abundance)	0	1	2	3	0
21. Aquatic Mollusks	0	1	2	3	0
22. Fish	0	0.5	1	1.5	0
23. Crayfish	0	0.5	1	1.5	0
24. Amphibians	0	0.5	1	1.5	0
25. Algae	0	0.5	1	1.5	0
26. Wetland plants in streambed	FACW=0.75; OBL=1.5 Other=0			0	

*perennial stream may also be identified using other methods. See p.35 of manual.

Notes:	Bank Height (feet)	1.5
	Bankfull Width (feet)	4
	Water Depth (inches)	0

U.S. Army WETLAND DETERMINATION DATA S See ERDC/EL TR-07-24; t	r Corps of Engineers HEET – Eastern Mounta he proponent agency	s ains and Pied r is CECW-C	mont Region O-R	OMB Control #: 07 Requirement Con (Authority: AR 33	'10-xxxx, Exp: Pending trol Symbol EXEMPT: 5-15, paragraph 5-2a)
Project/Site: Hamlet's Chapel Road		City/Count	y: Chatham	Sa	ampling Date: 2/28/2023
Applicant/Owner: Coffey Grounds, LLC				State: NC Sa	ampling Point: DP WK1
Investigator(s): K. Hamlin		Section, Town	ship, Range:		
Landform (hillside, terrace, etc.): seep/drain	nage Lo	cal relief (conca	ave. convex. none	e): concave	Slope (%): 0.1
Subregion (LRR or MLRA): LRR P. MLRA 1	36 Lat: 35.8013		L ong: -79 1	396	
Soil Man Linit Name: Wedewee sandy learn	<u>50</u> Eat. <u>55.0015</u>		Long13.1	NW/L classification	
Are elimetia (hydrologia conditions on the eli	a tunical for this time of us		Vec V		. <u>1 Livi</u>
Are climatic / hydrologic conditions on the still	e typical for this time of ye	al (
Are Vegetation, Soil, or Hydro	logy significantly di	sturbed? A	re "Normal Circur	mstances" present?	Yes X No
Are Vegetation, Soil, or Hydro	logynaturally probl	lematic? (If	f needed, explain	any answers in Remai	rks.)
SUMMARY OF FINDINGS – Attach	site map showing	sampling po	oint locations	, transects, impo	rtant features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks:	Yes X No Yes X No Yes X No	Is the Samp within a We	led Area tland?	Yes <u>X</u> N	o
Normal Conditions per Antecedent Precipita	tion Tool				
HYDROLOGY					
Wetland Hydrology Indicators:			Se	condary Indicators (mir	nimum of two required)
Primary Indicators (minimum of one is requi	True Aquetic Planta	(P14)	×	Surface Soil Cracks (B6)
X High Water Table (A2)	Hydrogen Sulfide Or	(B14)	×	Drainage Patterns (B	10)
X Saturation (A3)	X Oxidized Rhizosphe	res on Living Ro	oots (C3)	Moss Trim Lines (B16)	
Water Marks (B1)	Presence of Reduce	ed Iron (C4)	. ,	Dry-Season Water Ta	able (C2)
Sediment Deposits (B2)	Recent Iron Reduction	on in Tilled Soils	s (C6)	Crayfish Burrows (C8)
X Drift Deposits (B3)	Thin Muck Surface (C7)		Saturation Visible on	Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Re	marks)		Stunted or Stressed F	Plants (D1)
Iron Deposits (B5)	-)		<u></u> X	Geomorphic Position	(D2)
Inundation Visible on Aerial Imagery (B)	()			_Shallow Aquitard (D3)) icf (D4)
Aquatic Fauna (B13)				FAC-Neutral Test (D5	5)
Field Observations:					,,
Surface Water Present? Yes	No X Depth (inch	les):			
Water Table Present? Yes X	No Depth (inch	les): 2			
Saturation Present? Yes X	No Depth (inch	ies): 0	Wetland Hydi	rology Present?	Yes X No
(includes capillary fringe)					
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos	s, previous insp	ections), if availa	ble:	
Remarks:					

VEGETATION (Four Strata) – Use scientific names of plants.

Sampling Point: DP WK1

	Absolute	e Dominant	Indicator	
Tree Stratum (Plot size: 30')	% Cove	r Species?	Status	Dominance Test worksheet:
1. <u>none</u> 2				Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
3.				Total Number of Dominant
4				Species Across All Strata:
о	·			Percent of Dominant Species That Are OBL EACW or EAC: 100.0% (A/B)
7				Provalence Index worksheet:
/		-Total Cover		Total % Cover of Multiply by:
50% of total cover:	2(= 10 car Cover:		OPI encise 0 x1 = 0
Sepling/Shrub Stratum (Plot size: 30)	<u> </u>	7/0 01 10141 00101.		$\frac{1}{1} = \frac{1}{1} = \frac{1}$
1 None	_)			FAC species 8 x 3 = 24
2	·			$FACU \text{ species } 0 \qquad x 4 = 0$
2				$1 \text{ IDI encrice} \qquad 0 \qquad x 5 = 0$
аа				Column Totale: 8 (Δ) 24 (B)
4	•			$\frac{1}{24} \frac{1}{24} \frac$
5.	·			Prevalence muex = D/A = 3.00
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				X 2 - Dominance Test is >50%
9				X 3 - Prevalence Index is ≤3.0 ¹
		=Total Cover		4 - Morphological Adaptations' (Provide supporting
50% of total cover:	20)% of total cover:		data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5')				Problematic Hydrophytic Vegetation ¹ (Explain)
1. Smilax rotundifolia	5	Yes	FAC	¹ Indicators of hydric soil and wetland hydrology must be
2.				present, unless disturbed or problematic.
3				Definitions of Four Vegetation Strata:
4				Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
5				more in diameter at breast height (DBH), regardless of
6				height.
7				Sapling/Shrub – Woody plants, excluding vines, less
8				than 3 in. DBH and greater than or equal to 3.28 ft
9				
10 11.				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
	5	=Total Cover		Woody Vine – All woody vines greater than 3.28 ft in
50% of total cover:	3 20)% of total cover:	1	height.
Woody Vine Stratum (Plot size: 15')				
1. Smilax rotundifolia	3	No	FAC	
2.				
3	•			
л	•			
ч				
5.		Tatal Cover		Hydrophytic
	<u> </u>		4	Vegetation
50% of total cover:	2 20)% of total cover:	1	Present? Yes <u>×</u> No
Remarks: (Include photo numbers here or on a sep	barate sheet	t.)		<u> </u>

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth	Matrix		Redo	x Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-2	10YR 4/2	85	7.5YR 5/8	15	С	PL	Loamy/Claye	ey Prominent redox concentrations
2-12	2.5Y 6/2	85	7.5YR 5/8	15	С	PL	Loamy/Claye	ey Prominent redox concentrations
¹ Type: C=Co	oncentration, D=Depl	etion, RM	=Reduced Matrix, N	/IS=Masl	ked Sand	Grains.	² Loo	cation: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:							Indicators for Problematic Hydric Soils ³ :
Histosol	(A1)		Polyvalue Be	elow Sur	face (S8)	(MLRA	147, 148)	2 cm Muck (A10) (MLRA 147)
Histic Ep	oipedon (A2)		Thin Dark Su	urface (S	9) (MLR	A 147, 1	48)	Coast Prairie Redox (A16)
Black Hi	stic (A3)		Loamy Muck	y Minera	al (F1) (N	ILRA 13	6)	(MLRA 147, 148)
Hydroge	n Sulfide (A4)		Loamy Gleye	ed Matrix	k (F2)			Piedmont Floodplain Soils (F19)
Stratified	Layers (A5)		X Depleted Ma	trix (F3)				(MLRA 136, 147)
2 cm Mu	ick (A10) (LRR N)		Redox Dark	Surface	(F6)			Red Parent Material (F21)
Depleted	Below Dark Surface	(A11)	Depleted Da	rk Surfa	ce (F7)			(outside MLRA 127, 147, 148)
Thick Da	ark Surface (A12)	`	Redox Depre	essions ((F8)			Very Shallow Dark Surface (F22)
Sandy M	lucky Mineral (S1)		Iron-Mangar	ese Mas	sses (F12	2) (LRR I	Ν.	Other (Explain in Remarks)
Sandy G	ileved Matrix (S4)			5)	,	<i>,</i> ,		
Sandy R	edox (S5)		Umbric Surfa	, ace (F13) (MLRA	122, 130	6)	³ Indicators of hydrophytic vegetation and
Stripped	Matrix (S6)		Piedmont Fl	nialaboc	Soils (F	19) (MLR	, RA 148)	wetland hydrology must be present.
Dark Su	rface (S7)		Red Parent	Material	(F21) (M	LRA 127	, 147, 148)	unless disturbed or problematic.
Restrictive I	ayer (if observed):							
Type:								
Depth (ir	nches):						Hydric Soil	Present? Yes X No
Remarks:								

Ce Ce

County of Chatham, NC

WP-24-573 On-site Riparian Buffer Review Status: Active Submitted On: 11/6/2024 **Primary Location**

0 VACANT , North Carolina 00000

Owner Hamlets Reserve LLC 127 ARAYA LANE CHAPEL HILL, NC 27516-4990, 27516 Applicant

Bold Construction

919-929-6288

sheen@boldnc.com

✿ 50051 Governors Dr A

Chapel Hill, NC 27517

Project Information

Review Type*

Major Subdivision

If your project is a Major Subdivision please contact a private consulting firm to complete the surface water determination. For stream determinations the consultant must have successfully completed the NCDWQ/NC State University Surface Waters Classification. For wetland delineations the consultant must demonstrate at least 2 years of experience delineating jurisdictional wetlands in accordance with the Eastern Mountains and Piedmont Regional Supplement to the 1987 US Corps of Engineers Wetland Delineation Manual. Please visit the Watershed Protection Department website for a list of consultants that regularly complete work within Chatham County.

Has this review been completed by an environmental consultant prior to submittal to the county?*

No

Feature is defined as any surface water that is subject to Chatham County Riparian Buffers (streams, wetlands, ponds). Include each stream type transition, with corresponding forms, and individual wetland in your total. Total is total features found before USACE or County site visit.

Date Field Work Was Completed*

10/12/2022

Has USACE on-site review been scheduled or completed

Completed

Date USACE was completed*

11/10/2022

Brief Summary of USACE Findings*

1 Ephemeral stream

Parcel Information

Parcel Number (s)*	Watershed District
2102	
Is the property within the Jordan Lake Watershed*	Property Owner Name*
Yes	Hamlets Reserve LLC
Location of Tract (address if applicable)*	
114 Hamlets Chapel	

Driving Directions from Pittsboro*

N on 15-501, L on Hamlets Chapel R on George Helen

Subdivision Name (if applicable)

Please describe access issues (provide gate codes, or information for scheduling site visit)*

None

Applicants Information

Are you the Landowner or an Agent*	Full Name*
Agent	Sheen Hosseinpour
Primary Phone Number*	Primary Email*
919 929 6288	sheen@boldnc.com
Mailing Address*	City/State*
50051 Governors Dr Suite A	Chapel Hill, NC
Zip Code* 27517	

How would you like to receive the completed review letter?

I would like to pick up the completed Riparian Buffer Review at the County Office I would like the completed Riparian Buffer Review mailed to me

I would like the completed Riparian Buffer Review emailed to me.

Statement of Understanding

I have read and understand the regulations of the Watershed Protection Ordinance, Section 304, and I agree to adhere to these associated policies and guidelines.

Name*	New Field*
Sheen Hosseinpour	11/06/2024

Attachments

B

Signed Right to Enter Property Form Ham Res Prop Entry Auth Signed.pdf Uploaded by Bold Construction on Nov 6, 2024 at 1:34 PM

REQUIRED

REQUIRED

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Ξ	

Signed Owner's Agent Designation Form Ham Res Auth Agt Signed.pdf Uploaded by Bold Construction on Nov 6, 2024 at 1:34 PM

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Consultant Findings Report Hamlets Chapel Addendum Report 11-10-2022.pdf Uploaded by Bold Construction on Nov 6, 2024 at 1:34 PM

WP-24-573

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onsultants Findings Map

lamRes Findings Map.pdf Jploaded by Bold Construction on Nov 6, 2024 at 1:35 PM



NCDWQ Stream Identification Forms & Wetland Data Forms REQUIRED NC DWQ Stream Identification Form Version 4point11.pdf Uploaded by Bold Construction on Nov 6, 2024 at 1:37 PM



NRCS Map

NRCS Map Parcel 2102 Hamlets Reserve.pdf Uploaded by Bold Construction on Nov 6, 2024 at 1:38 PM REQUIRED

REQUIRED



USGS Topographic Map

USGS Map Parcel 2102 Hamlets Reserve.pdf Uploaded by Bold Construction on Nov 6, 2024 at 1:38 PM REQUIRED

History

Date	Activity
11/7/2024, 11:50:30	Drew Blake approved approval step Watershed Intake Approval on
AM	Record WP-24-573
11/7/2024, 11:48:38 AM	Drew Blake reactivated approval step Watershed Intake Approval on Record WP-24-573
11/7/2024, 11:48:26 AM	OpenGov system altered payment step Major Subdivision Riparian Buffer Review Fee, changed status from Inactive to Active on Record WP-24-573
11/7/2024, 11:48:25	Drew Blake approved approval step Watershed Intake Approval on
AM	Record WP-24-573
11/6/2024, 1:39:05	OpenGov system changed the deadline to Nov 8, 2024 on approval step
PM	Watershed Intake Approval on Record WP-24-573
11/6/2024, 1:39:04 PM	OpenGov system assigned approval step Watershed Intake Approval from to Hollie Squires on Record WP-24-573
11/6/2024, 1:39:04	OpenGov system altered approval step Watershed Intake Approval,
PM	changed status from Inactive to Active on Record WP-24-573
11/6/2024, 1:39:03 PM	Bold Construction submitted Record WP-24-573
11/6/2024, 1:38:56	Bold Construction added file USGS Map Parcel 2102 Hamlets
PM	Reserve.pdf

Activity
Bold Construction added file NRCS Map Parcel 2102 Hamlets Reserve.pdf
Bold Construction removed file NC DWQ Stream Identification Form Version 4point11.pdf
Bold Construction added file NC DWQ Stream Identification Form Version 4point11.pdf
Bold Construction added file NC DWQ Stream Identification Form Version 4point11.pdf
Bold Construction added file HamRes Findings Map.pdf
Bold Construction added file Hamlets Chapel Addendum Report 11-10-2022.pdf
Bold Construction added file Ham Res Auth Agt Signed.pdf
Bold Construction added file Ham Res Prop Entry Auth Signed.pdf
Bold Construction started a draft Record

Timeline

Label	Activated	Completed	Assignee	Due Date	Status
✓ Watershed Intake Approval	11/6/2024, 1:39:04 PM	11/7/2024, 11:50:30 AM	Hollie Squires	11/7/2024	Completed
Major Subdivision Riparian Buffer Review Fee	11/7/2024, 11:48:25 AM	-	Bold Construction	-	Active
✓ Field Review	-	-	-	-	Inactive

WP-24-573

Label	Activated	Completed	Assignee	Due Date	Status
Major Subdivision Riparian					Inactive
Buffer Confirmation Report	-	-	-	-	maetive

CHATHAM COUNTY AUTHORIZED AGENT FOR FORM CHATHAM COUNTY AUTHORIZED AGENT FOR FORM COPERTY LEGAL DESCRIPTION: LOT NO, 0002102 PARCEL ID (PIN) 0002102 PARCEL SIZE AD& acres STREET ADDRESS: or Hamos Chapel Pd Plaboo. NG 27312 Please print: Property Owner The undersigned owner(s) of the above described property, do hereby authorize Segen Hassimpur (Name of consulting firm if applicable) o act on my/our behalf and take all actions. Five could have taken if present, necessary for the processing, and acceptance of reviews, inspections, or permits and any and all standard and special conditions attach these approvals. The activities authorized include the following (Check all that apply) Check here for all of the below options. Dialiding Permit Contractor/Agenti Soli Erosion & Sedimentation Control Permit Property Owner's Address (if different than property above): Check here install, repair, evaluate, or expand onsite wastewater system(s) Evaluator/inspection/permiting of a private drinking water well(s). Chere: Property Owner's Address (if different than property above): Check here install, repair, evaluate, or expand onsite wastewater system(s) Evaluator/inspection/permiting of a private drinking water well(s). Check here install, repair, evaluate, or expand onsite wastewater system(s) Evaluator/inspection/permiting of a private drinking water well(s). Check here install, repair, evaluate, or expand onsite wastewater system(s) Evaluator/inspection/permiting of a private drinking water well(s). Check here install, repair, evaluate, or expand onsite wastewater system(s) Evaluator/inspection/permiting of a private drinking water well(s). Check here install, repair, evaluate, or expand onsite wastewater system(s) Evaluator/inspection/permiting of a private drinking water well(s). Check here by certify the above information submitted in this applification is true and accurate to the best of our nowledge: Discover defined Signature Discover dispature Discover dispature Discover dispature Discover dispature Discover d	à l	
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CHATHAM COUNTY AUTHORIZED AGENT FOR FORM ROPERTY LEGAL DESCRIPTION: LOT NO. 6008102 PARCEL ID (PIN) 0002102 PARCEL SIZE 8.08 acros STREET ADDRESS: OF Harries Chaptel Pd Phiboro. NC 27212 Please print: Property Owner Harries Reserve LLC Property Owner The undersigned owner(s) of the above described property, do hereby authorize Steen Hossempour (Contractor / Agent) to act on my/our behalf and take all actions, I/we could have taken if present, nccessary for the processing, and acceptance of reviews, inspections, or permits and any and all standard and special conditions attach these approvals. The activities authorized include the following (Check all that apply): Check here for all of the below options. Example Compliance Permits Floodplain Determination Soil Brosion & Sedimentation Control Permit Permits to install, repair, evaluate, or expand onsite wastewater system(s) Evaluation/inspection Opermiting of a private drinking water wel(s). Riparian Buffer Review pursuant to §304 of the Chatham Co. Watershed Protection Ordinance. Coher: Toperty Owner's Address (if different than property above): Riparian Buffer Review formation submitted in this application is true and accurate to the best of on nowledge. We hereby certify the above information submitted in this application is true and accurate to the best of on nowledge.	-10 ⁻¹⁰	
AUTHORIZED AGENT FOR FORM ROPERTY LEGAL DESCRIPTION: LOT NO. 000102 PARCEL ID (PIN) 0002102 PARCEL SIZE 9.08 acres STREET ADDRESS: Of Hambes Chappel Rd Padeoro, NO. 27312 Please print: Property Owner Hambes Reserve LLC Property Owner The undersigned owner(s) of the above described property, do hereby authorize Steen Hossenpoor (Contractor / Agent) (Name of consulting firm if applicable) to act on my/our behalf and take all actions, l/we could have taken if present, necessary for the processing, and acceptance of reviews, inspections, or permits and any and all standard and special conditions attach these approvals. The activities authorized include the following (Check all that apply): Image: Check here for all of the below options. Image: Building Permit Zoning Compliance Permits Image: Provalphin Determination Image: Provalphin Determination Image: Provalphin Determination Image: Prover state of the above permits Image: Prover state of the above permits Image: Provention/free return of a private drinking water well(s). Image: Provention/free return of a private drinking water well(s). Image: Provelophin Determination <t< th=""><th></th><th>CHATHAM COUNTY</th></t<>		CHATHAM COUNTY
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LOT NO. 002102 PARC EL ID (PIN) 002102 PARCEL SIZE 8.08 acres STREET ADDRESS: 011 Hamilus Gregel Pd Plaboro, NC 27312 Please print: Property Owner: The undersigned owner(s) of the above described property, do hereby authorize Sheen Hasseinpour (Contractor / Agent) to act on my/our behalf and take all actions, I/we could have taken if present, necessary for the processing, and acceptance of reviews, inspections, or permits and any and all standard and special conditions attach these approvals. The activities authorized include the following (Check all that apply): Check here for all of the below options. Building Permit Zoning Compliance Permits Floodplain Determination Soil Erosion & Sedimentation Control Permit Permits to install, repair, evaluate, or expand onsite wastewater system(s) Evaluation/inspection/permiting of a private drinking water well(s). Ripairia Buffer Review pursuant to §304 of the Chatham Co. Watershed Protection Ordinance. Other: Property Owner's Address (if different than property above): 27 Arays Ln Chapel Hill, NC 27516 Elephone: 919 929 5288 E-mail: jasen@bodme.com We hereby certify the above information submitted in this applifation is true and accurate to the best of ou nowledge.	ROPERTY LEGAL DE	SCRIPTION:
STREET ADDRESS: Of Hamidia Chapel Rd Pitaboro, NC 27312 Please print: Property Owner Hamidia Reserve LLC Property Owner The undersigned owner(s) of the above described property, do hereby authorize Shean Hosserpour The undersigned owner(s) of the above described property, do hereby authorize Shean Hosserpour The undersigned owner(s) of the above described property, do hereby authorize Shean Hosserpour The undersigned owner(s) of the above described property, do hereby authorize Shean Hosserpour The undersigned owner(s) of the above described property, do hereby authorize Shean Hosserpour The undersigned owner(s) of the above described property, do hereby authorize Shean Hosserpour The undersigned owner(s) of the above described property, do hereby authorize Shean Hosserpour The undersigned owner(s) of the above described property, do hereby authorize Shean Hosserpour The undersigned owner(s) of the above described property, do hereby authorize Shean Hosserpour The undersigned owner(s) of the above described property, do hereby authorize Shean Hosserpour The undersigned owner(s) of the above described property, do hereby authorized Soli Erstein Authorized of reviews, inspections, or permits and any and all standard and special conditions attach these approvals. The activities authorized include the following (Check all that apply): Check here for all of the below options. Soli Ersolin & Soli Ersolin & Soli Ersolin Authorized or expand onsite wastewater system(s) Soli Ersolin & Sedimentation Control Permit Permits to install, repair, evaluate, or expand onsite wastewater system(s) Evaluation/inspection/permitting of a private drinking water well(s). Riparian Buffer Review pursuant to \$304 of the Chatham Co. Watershed Protection Ordinance. Cother: Coth	LOT NO. 0002102	PARCEL ID (PIN) 0002102 PARCEL SIZE 9.08 acres
Pitabero, NC 27312 Please print: Property Owner Hamiets Reserve LLC Property Owner The undersigned owner(s) of the above described property, do hereby authorize Sheen Hosseinpour Contractor / Agent) of BOLD Construction Inc (Contractor / Agent) o act on my/our behalf and take all actions, I/we could have taken if present, necessary for the processing, and acceptance of reviews, inspections, or permits and any and all standard and special conditions attach these approvals. The activities authorized include the following (Check all that apply): Check here for all of the below options. Zoning Compliance Permits Zoning Compliance Permits Zoning Compliance Permits Zoning Compliance Permits 	STREET ADDRESS: <u>Off</u>	Hamlets Chapel Rd
Please print: Hamiets Reserve LLC Property Owner	Pittsboro, NC 27312	
Property Owner Hamiets Reserve LLC Property Owner	Please print:	
Property Owner	Property Owner: Hamlets F	Reserve LLC
The undersigned owner(s) of the above described property, do hereby authorize Shean Hosseinpour , of BOLD Construction Inc (Contractor / Agent) (Name of consulting firm if applicable) to act on my/our behalf and take all actions, I/we could have taken if present, necessary for the processing, and acceptance of reviews, inspections, or permits and any and all standard and special conditions attach these approvals. The activities authorized include the following (Check all that apply): Image: Check here for all of the below options. Image: Building Permit Image: Compliance Permits Image: Permits to install, repair, evaluate, or expand onsite wastewater system(s) Image: Permits to install, repair, evaluate, or expand onsite wastewater system(s) Image: Permits to install, repair, evaluate, or expand onsite wastewater system(s) Image: Permits to install, repair, evaluate, or expand onsite wastewater system(s) Image: Permits to install, repair, evaluate, or expand onsite wastewater system(s) Image: Permits to install, repair, evaluate, or expand on the Chatham Co. Watershed Protection Ordinance. Image: Permits to install, repair, evaluate, or expand on the Chatham Co. Watershed Protection Ordinance. Image: Permits to install, repair, evaluate or sold of the Chatham Co. Watershed Protection Ordinance. Image: Permits to install, repair, evaluate or sold of the Chatham Co. Watershed Protection Ordinance. Image: Permits to instally indicate to the best of out o	Property Owner:	
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Sheen Hosseinpour , of BOLD Construction Inc (Contractor / Agent) (Name of consulting firm if applicable) o act on my/our behalf and take all actions, I/we could have taken if present, necessary for the processing, and acceptance of reviews, inspections, or permits and any and all standard and special conditions attach these approvals. The activities authorized include the following (Check all that apply): Check here for all of the below options. Building Permit Zoning Compliance Permits Floodplain Determination Soil Erosion & Sedimentation Control Permit Permits to install, repair, evaluate, or expand onsite wastewater system(s) Evaluation/inspection/permitting of a private drinking water well(s). Riparian Buffer Review pursuant to §304 of the Chatham Co. Watershed Protection Ordinance. Other: Property Owner's Address (if different than property above): Property Owner's Address (if different than property above): Arays Ln Chapel Hill, NC 27516 Felephone: 919 929 5288 E-mail: iason@boldnc.com We hereby certify the above information submitted in this application is true and accurate to the best of our nowledge. Wener withorized Signature Agent Authorized Signature	The undersigned owner(s)	of the above described property, do hereby authorize
(Contractor / Agent) (Name of consulting firm if applicable) (Name of consulting firm if applicable) (Name of consulting firm if applicable) to act on my/our behalf and take all actions, I/we could have taken if present, necessary for the processing, and acceptance of reviews, inspections, or permits and any and all standard and special conditions attach these approvals. The activities authorized include the following (Check all that apply): Check here for all of the below options. Building Permit Zoning Compliance Permits Floodplain Determination Soil Erosion & Sedimentation Control Permit Permits to install, repair, evaluate, or expand onsite wastewater system(s) Evaluation/inspection/permitting of a private drinking water well(s). Riparian Buffer Review pursuant to \$304 of the Chatham Co. Watershed Protection Ordinance. Property Owner's Address (if different than property above): 127 Arays Ln Chappel Hill, NC 27516 Fleephone: 919 929 5288 E-mail: jason@boldnc.com We hereby certify the above information submitted in this application is true and accurate to the best of our nowledge. Wurner withorized Signature Agent Authorized Signature Atte: 11/04/2024	Sheen Hosseinpour	of BOLD Construction Inc.
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CHATHAM COUNTY	Watershed Protection Department
NORTH CAROLINA	P.O. Box 548 Pittsboro NC 27312
	Website: www.chathamnc.org
Auth	norization to Enter Property Form
Date: 11/4/2024	
PARCEL No. (AKPAR) 0002	2102
I, (print name) Jason Dell	, as owner of the property described above,
or as a representative of the owner	(s) do hereby convey permission to Chatham County staff to enter the property at
their convenience to conduct a surf	ace water identification (SWID) necessary to determine whether or not water features
on my property are subject to the ri	parian buffer regulations described in Section 304 of the Chatham County Watershed
Protection Ordinance. The SWIE	will be public record and on file at the Planning and Watershed Protection
Departments, and may be requested	in the future for review by interested parties.
I understand that stream delineatio	ns for the property listed above will be made by County staff only once and that if
future subdivisions are proposed w	thin this property boundary, it will require a surface water identification by a private
consultant at the property owner's e	xpense.
Hamlets Reserve LLC	had
(Print Owner's Name)	(Signature of Owner)
	(Date) 11/4/24
Sheen Hosseinpour	
(Print Authorized Agent Name)	(Signature Authorized Agent) (Date)
	N/4/24
Canal Can	



WATERSHED PROTECTION DEPARTMENT

P.O. Box 548 Pittsboro, NC 27312 Phone: (919) 545-8394

Fax: (919) 542-2698 • E-mail: drew.blake@chathamnc.org • Website: www.chathamnc.org

January 28, 2021

Ms. Kim Hamlin	
Sage Ecological Services, Inc.	
3707 Swift Drive	
Raleigh, NC 27605	
Project Name:	<u>Hamlet's Ridge (Parcel's 61669, 68866, 1795)</u>
Location:	Hamlets Chapel Road, Chatham County
Subject Features:	Four (4) intermittent segments, four (4) perennial segments, thirteen (13) wetlands, beaver impoundment, mapped floodplain
Date of	January 22, 2021

Date of Determination:

Explanation:

The site visit was completed on January 22, 2021 by Drew Blake with the Chatham County Watershed Protection Department and Kim Hamlin of Sage Ecological Services, Inc. (Sage), on properties identified as Chatham County Parcel #'s 61669, 68866, 1795 that are located inside of the Jordan Lake watershed. Sage personnel completed a previous site visit which resulted in the identification of four (4) intermittent segments, four (4) perennial segments, and thirteen (13) potential wetlands on the property. Sage submitted a request for Chatham County to complete a formal review to determine if the features would be subject to riparian buffers according to Section 304 of the Chatham County Watershed Protection Ordinance. All points of origin, stream type transitions, and wetland boundaries were reviewed in the field.

Required Riparian Buffers:

The required riparian buffers described below are based on the surface water features identified on the included on Figure 3: Wetland Sketch Map, completed by Sage. Ephemeral streams will require a 30-ft buffer from the top of bank landwards on both sides of the features. The intermittent streams will require a 50-ft buffer from the top of bank landward on both sides of the feature. The perennial streams will require a 100-ft buffer from the top of bank landward on both sides of the feature. Wilkinson Creek will receive a 100-ft buffer on those portions that are located within the property. All buffers for features that are within the mapped floodplain boundary will extend to the full length of the required buffer or to the mapped floodplain boundary, whichever is the greater distance from the top of bank or wetland boundary.

The beaver impoundment along Wilkinson Creek will receive a 50-ft buffer based on NC DWR Buffer Interpretation/Clarification Memorandum #2007-005. This requires a 50-ft buffer on beaver impoundments as they are considered open water. The buffer will surround the beaver impoundment and is measured based on the ground elevation of the beaver dam. If multiple beaver dams are present the buffer will change according to each dam elevation. All buffers beaver impoundment will extend to the full length of the required buffer, as described above, or to the mapped floodplain boundary, whichever is the greater distance from the top of bank or wetland boundary.

CHATHAM COUNTY NORTH CAROLINA

WATERSHED PROTECTION DEPARTMENT

P.O. Box 548 Pittsboro, NC 27312 Phone: (919) 545-8394

Fax: (919) 542-2698 • E-mail: drew.blake@chathamnc.org • Website: www.chathamnc.org

The wetland boundaries flagged in the field by Sage must be reviewed and confirmed by the US Army Corps of Engineers (USACE). A 50-ft buffer will be required beginning at the flagged boundaries and proceeding landward of any flagged wetlands determined jurisdictional by the USACE. Any wetlands determined non-jurisdictional by the USACE will receive a 50-ft buffer based on the flagged boundary in the field.

Impacts to Riparian Buffers:

Impacts to the riparian buffers may require a Riparian Buffer Authorization depending on the size and scope of the impacts. Please refer to Section 304 (J)(3) of the Chatham County Watershed Protection Ordinance to determine if your impacts will require a Riparian Buffer Authorization. If you determine that a Riparian Buffer Authorization is required please contact Drew Blake to receive the required application and submittal instructions.

This on-site determination shall expire five (5) years from the date of this letter. Landowners or affected parties that dispute a determination made by Chatham County, on parcels outside of the Jordan Lake watershed, may submit a request for appeal in writing to the Watershed Review Board. A request for a determination by the Watershed Review Board shall be made in accordance with Section 304 of the Chatham County Watershed Protection Ordinance. Landowners or affected parties that dispute a determination made by Chatham County, on parcels inside the Jordan Lake watershed, shall submit a request for appeal in writing to NC DWR, 401 & Buffer Permitting Unit, 1650 Mail Service Center, Raleigh, NC 27669-1650 attention of the Director of the NC Division of Water Quality.

Should this project result in any direct impacts to surface water features (i.e., crossing and/or filling streams or wetlands) additional reviews may be necessary. Additionally, a Section 404/401 Permit may be required. Any inquiries regarding Section 404/401 permitting should be directed to the Division of Water Resources (Central Office) at (919)-807-6364 and the US Army Corp of Engineers (Raleigh Regulatory Field Office) at (919)-554-4884.

Respectfully,

Drew Blake

Drew Blake Senior Watershed Specialist, CESSWI

Enclosures: Figure 1: USGS Topographic Map – Completed by Sage Figure 2: NRCS Soil Survey – Completed by Sage Figure 3: Stream and Wetland Sketch Map – Completed by Sage Sage Stream ID Forms Sage Wetland Determination Form Major Subdivision Riparian Buffer Application Authorized Agent Form Authorization to Enter Property Form

cc: Rachael Thorn, Director, Chatham County Watershed Protection Department Kimberly Tyson, Planner II/Subdivision Administrator, Chatham County Planning Department Angela Plummer, Planner II/Zoning Administrator, Chatham County Planning Department Jason Sullivan, Director, Chatham County Planning Department





Bynum September 20, 2020

CHATHAM

MOORE

LEE

HARNETT



Sage Ecological Services, Inc. Office: 919-335-6757 Cell: 919-559-1537



Legend



Stream SDA SDA01 Start Stream

Stream Form
 Marginal Stream / Marginal Wetland- Jurisdictional Waters of the U.S.; Subject to 50-Foot Chatham County Buffers
 Intermittent Stream - Jurisdictional Waters of the U.S.; Subject to 50-Foot Chatham County Buffers
 Perennial Stream - Jurisdictional Waters of the U.S.; Subject to 100-Foot Chatham County Buffers
 Wetlands - Jurisdictional Waters of the U.S.; Subject to 50-Foot Chatham County Buffers

Source: Esri, Digital Clobe, Geo Eye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, Aero GRID, IGN, and the GIS User Community

Ν

Map Location



Wetland Sketch Map

Hamlets Chapel Road Project Sage Project # 2020.005

Revised January 21, 2021



SAGE ECOLOGICA SERVICES EST. 2016

Figure 3

Drawn By: David Gainey

Sage Ecological Services, Inc. Office: 919-335-6757 Cell: 919-559-1537

Date: 09/11/2020	Project/Sit	e:Hamlets C	hapel	Lati	Latitude: 35.8001		
Evaluator: D. Gainey County:		Chatham			Longitude:-79.1448		
Total Points:Stream is at least intermittent if ≥ 19 or perennial if ≥ 30	S4.5 Stream De	Determination: erennial		er: Bynum, NC Quad Name:			
A. Geomorphology (Subtotal	= 16.5)	Absent	Weak	Moderate	Strong	SCORE	
1 ^a . Continuous bed and bank	0	1	2	3	3		
2. Sinuosity of channel along thalweg		0	1	2	3	1	
3. In-Channel structure: ex. riffle-pool, step-pool, ripple- pool sequence		0	1	2	3	2	
4. Particle size of stream substrate		0	1	2	3	2	
5. Active/relic floodplain		0	1	2	3	2	
6. Depositional bars or benches		0	1	2	3	1	
7. Recent alluvial deposits		0	1	2	3	3	
8. Headcuts		0	1	2	3	0	
9. Grade controls		0	0.5	1	1.5	1	
10. Natural valley		0	0.5	1	1.5	1.5	
11. Second or greater order channel		No	= 0	Yes	= 3	0	
^a artificial ditches are not rated; see discussion	ns in manual.						
B. Hydrology (Subtotal = 10	_)	Absent	Weak	Moderate	Strong	SCORE	
12. Presence of Baseflow		0	1	2	3	3	

				3	
12. Presence of Baseflow	0	1	2	3	3
13. Iron oxidizing bacteria	0	1	2	3	0
14. Leaflitter	1.5	1	0.5	0	1.5
15. Sediment on plants or debris	0	0.5	1	1.5	1.5
16. Organic debris lines or piles	0	0.5	1	1.5	1
17. Soil-based evidence of high water table?	No =	= 0	Yes =	3	3

C. Biology (Subtotal $= \frac{8}{3}$)	Absent	Weak	Moderate	Strong	SCORE
18. Fibrous roots in streambed	3	2	1	0	3
19. Rooted upland plants in streambed	3	2	1	0	3
20. Macrobenthos (note diversity and abundance)	0	1	2	3	2
21. Aquatic Mollusks	0	1	2	3	0
22. Fish	0	0.5	1	1.5	0
23. Crayfish	0	0.5	1	1.5	0
24. Amphibians	0	0.5	1	1.5	0
25. Algae	0	0.5	1	1.5	0
26. Wetland plants in streambed	FACW=0.75; OBL=1.5 Other=0			0	

*perennial stream may also be identified using other methods. See p.35 of manual.

Bankfull Width (feet) Water Depth (inches)	
Water Depth (inches)	
Channel Substrate	
Velocity:	
Clarity:	
	Velocity: Clarity:

NC DWQ Stream Ic	dentification	n Form Version 4.11	SF2
Date: 09/11/2020		Project/Site: Hamlets Chapel	Latitude: 35.8043
Evaluator: D. Gainey		County: Chatham	Longitude:-79.142
Total Points: Stream is at least intermittent if ≥ 19 or perennial if ≥ 30	7.5	Stream Determination: Ephemeral	Other: Bynum, NC e.g. Quad Name:

A. Geomorphology (Subtotal $=5.5$)	Absent	Weak	Moderate	Strong	SCORE
1 ^a . Continuous bed and bank	0	1	2	3	0
2. Sinuosity of channel along thalweg	0	1	2	3	0
3. In-Channel structure: ex. riffle-pool, step-pool, ripple- pool sequence	0	1	2	3	0
4. Particle size of stream substrate	0	1	2	3	3
5. Active/relic floodplain	0	1	2	3	0
6. Depositional bars or benches	0	1	2	3	0
7. Recent alluvial deposits	0	1	2	3	0
8. Headcuts	0	1	2	3	0
9. Grade controls	0	0.5	1	1.5	1.5
10. Natural valley	0	0.5	1	1.5	1
11. Second or greater order channel	No =	= 0	Yes =	= 3	0

^a artificial ditches are not rated; see discussions in manual.

B. Hydrology (Subtotal =2)	Absent	Weak	Moderate	Strong	SCORE
12. Presence of Baseflow	0	1	2	3	2
13. Iron oxidizing bacteria	0	1	2	3	0
14. Leaflitter	1.5	1	0.5	0	0
15. Sediment on plants or debris	0	0.5	1	1.5	0
16. Organic debris lines or piles	0	0.5	1	1.5	0
17. Soil-based evidence of high water table?	No =	= 0	Yes =	3	0

C. Biology (Subtotal = 0)	Absent	Weak	Moderate	Strong	SCORE
18. Fibrous roots in streambed	3	2	1	0	0
19. Rooted upland plants in streambed	3	2	1	0	0
20. Macrobenthos (note diversity and abundance)	0	1	2	3	0
21. Aquatic Mollusks	0	1	2	3	0
22. Fish	0	0.5	1	1.5	0
23. Crayfish	0	0.5	1	1.5	0
24. Amphibians	0	0.5	1	1.5	0
25. Algae	0	0.5	1	1.5	0
26 Wetland plants in streambed	FAC	N=0.75; C	DBL=1.5 Othe	er=0	0

*perennial stream may also be identified using other methods. See p.35 of manual.

Bank Height (feet)			
Bankfull Width (feet)			
Water Depth (inches)			
Channel Substrate			
Velocity:			
Clarity:			
	Bank Height (feet)Bankfull Width (feet)Water Depth (inches)Channel SubstrateVelocity:Clarity:		

NC DWQ Stream I	dentificatio	n Form Version 4.11	SF3
Date: 09/11/2020		Project/Site: Hamlets Chapel	Latitude: 35.8043
Evaluator: D. Gainey		County: Chatham	Longitude:-79.1442
Total Points: Stream is at least intermittent if ≥ 19 or perennial if ≥ 30	35	Stream Determination: Perennial	Other: Bynum, NC e.g. Quad Name:

A. Geomorphology (Subtotal = 16)	Absent	Weak	Moderate	Strong	SCORE
1 ^a . Continuous bed and bank	0	1	2	3	3
2. Sinuosity of channel along thalweg	0	1	2	3	1
 In-Channel structure: ex. riffle-pool, step-pool, ripple- pool sequence 	0	1	2	3	2
4. Particle size of stream substrate	0	1	2	3	2
5. Active/relic floodplain	0	1	2	3	1
6. Depositional bars or benches	0	1	2	3	2
7. Recent alluvial deposits	0	1	2	3	1
8. Headcuts	0	1	2	3	1
9. Grade controls	0	0.5	1	1.5	1.5
10. Natural valley	0	0.5	1	1.5	1.5
11. Second or greater order channel	No =	= 0	Yes =	= 3	0

^a artificial ditches are not rated; see discussions in manual.

B. Hydrology (Subtotal $=10.5$)	Absent	Weak	Moderate	Strong	SCORE
12. Presence of Baseflow	0	1	2	3	3
13. Iron oxidizing bacteria	0	1	2	3	1
14. Leaflitter	1.5	1	0.5	0	1.5
15. Sediment on plants or debris	0	0.5	1	1.5	1
16. Organic debris lines or piles	0	0.5	1	1.5	1
17. Soil-based evidence of high water table?	No =	= 0	Yes =	3	3

C. Biology (Subtotal $= \frac{8.5}{3}$)	Absent	Weak	Moderate	Strong	SCORE
18. Fibrous roots in streambed	3	2	1	0	3
19. Rooted upland plants in streambed	3	2	1	0	3
20. Macrobenthos (note diversity and abundance)	0	1	2	3	2
21. Aquatic Mollusks	0	1	2	3	0
22. Fish	0	0.5	1	1.5	0.5
23. Crayfish	0	0.5	1	1.5	0
24. Amphibians	0	0.5	1	1.5	0
25. Algae	0	0.5	1	1.5	0
26 Wetland plants in streambed	FAC	N=0.75; C	DBL=1.5 Othe	er=0	0

*perennial stream may also be identified using other methods. See p.35 of manual.

Notes:	Bank Height (feet)	
	Bankfull Width (feet)	
	Water Depth (inches)	
	Channel Substrate	
	Velocity:	
	Clarity:	
Sketch:		

Project/Site: Hamiets Chapel Property / Sage Project #2020.005 City/County: Pittsboro / Chatham Sampling Date: 62/03/202 Applicant/Owner: Coffey Grounds, Inc. State: NC Sampling Point: DP1 WE Investiguativity: D-Calmey Section, Township, Range:	U.S. Army Corps of Engineer WETLAND DETERMINATION DATA SHEET – Eastern Mount See ERDC/EL TR-07-24; the proponent agency	's tains and Piedmont Region y is CECW-CO-R	OMB Control #: Requirement C (Authority: AR	0710-xxxx, Exp: Pending control Symbol EXEMPT: 335-15, paragraph 5-2a)
Landform (hilliside, terrace, etc.): floodplain Local relief (concave, convex, none): Slope (%): 0.5. Subregion (LRR or MLRA): LRR P, MLRA 136 Lat: 36.8037'N Long: 79.1431'W Datum: NADB3 Soil Map Unit Name: We - Wedowee sandy loam NWI classification: PFO Are climatic / hydrologic conditions on the site typical for this time of year? YesNoX NoX (ff no, explain in Remarks.) SUMMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophylic Vegetation Present? YesNo Hydrophylic Vegetation Present? YesNo Is the Sampled Area within a Wotland? YesNo Wetland Hydrology Indicators: Yes	Project/Site: Hamlets Chapel Property / Sage Project #2020.005 Applicant/Owner: Coffey Grounds, Inc. Investigator(s): D. Gainey	City/County: <u>Pittsboro / Cha</u> Section, Township, Range:	athamState:NC	Sampling Date: 02/03/2020 Sampling Point: DP1 WET
Hydrophytic Vegetation Present? Yes No Is the Sampled Area within a Wetland? Yes No Wetland Hydrology Present? Yes X No within a Wetland? Yes X No Remarks: Wetland Hydrology Present? Yes X No	Landform (hillside, terrace, etc.): floodplain Lat: Subregion (LRR or MLRA): LRR P, MLRA 136 Lat: 35.8037°N Soil Map Unit Name: We - Wedowee sandy loam Metric Conditions on the site typical for this time of yet Are climatic / hydrologic conditions on the site typical for this time of yet Significantly d Are Vegetation , Soil , or Hydrology significantly d Are Vegetation , Soil , or Hydrology naturally prob SUMMARY OF FINDINGS – Attach site map showing Site map showing Site map showing	cal relief (concave, convex, none Long: 79.14 ear? YesN listurbed? Are "Normal Circur elematic? (If needed, explain sampling point locations	 e): <u>concave</u> 31°W NWI classification No X (If no, expension of the second s	Slope (%): 0.5 Datum: NAD83 on: PFO xplain in Remarks.) Yes X Yes X No narks.) Yes X
Terminats. Wetter than normal conditions per Antecedent Precipitation Tool HYDROLOGY Wettand Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (86) Surface Water (A1) True Aquatic Plants (B14) Surface Soil Cracks (86) High Water Table (A2) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) X Saturation (A3) Oxidized Rhizospheres on Living Roots (C3) Moss Trim Lines (B16) Water Marks (B1) Presence of Reduced Iron (C4) Dry-Season Water Table (C2) Sediment Deposits (B2) Recent Iron Reduction in Tilled Soils (C6) Crayfish Burrows (C8) Drift Deposits (B3) Thin Muck Surface (C7) Saturation Visible on Aerial Imagery (C9) Adgal Mat or Crust (B4) Other (Explain in Remarks) Stunted or Stressed Plants (D1) Iron Deposits (B5) Geomorphic Positin (D2) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Microtopographic Relief (D4) FAC-Neutral Test (D5) Wetland Hydrology Present? Yes No X Depth (inches): Saturation Present? Yes X No Depth (inches): Wetland Hydrology Present? Yes X No (includes capillary fringe)	Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes X No Wetland Hydrology Present? Yes X No Remarks: No No	Is the Sampled Area within a Wetland?	Yes X	No
Field Observations: Surface Water Present? Yes No X Depth (inches):	HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)	Sec i (B14) dor (C1) eres on Living Roots (C3) ed Iron (C4) ion in Tilled Soils (C6) (C7) emarks)	condary Indicators (r Surface Soil Cracks Sparsely Vegetated Drainage Patterns Moss Trim Lines (E Dry-Season Water Crayfish Burrows (C Saturation Visible of Stunted or Stressed Geomorphic Positio Shallow Aquitard (I Microtopographic R FAC-Neutral Test (minimum of two required) s (B6) d Concave Surface (B8) (B10) B16) Table (C2) C8) on Aerial Imagery (C9) d Plants (D1) on (D2) O3) Relief (D4) D5)
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Field Observations: Surface Water Present? Yes No X Depth (inch Water Table Present? Yes No X Depth (inch Saturation Present? Yes X No Depth (inch (includes capillary fringe) Ves X No Depth (inch Describe Recorded Data (stream gauge, monitoring well, aerial photo Remarks:	nes): nes): nes): wetland Hydr nes, previous inspections), if availat	ology Present?	Yes X No

VEGETATION (Four Strata) - Use scientific names of plants.

Sampling Point: DP1 WET

Tara Stratura (Distaire) 201	Absolute	Dominant	Indicator	Barriana Taturdahati
<u>Tree Stratum</u> (Plot size: <u>30'</u>)	% Cover	Species?	Status	Dominance Test worksneet:
1. Acer rubrum	20	Voc	FAC	Number of Dominant Species
	10	Vec		
	5	No	EACU	Total Number of Dominant
			FACO	
5. e				Percent of Dominant Species
7		·		Provalance Index worksheet:
··	45	-Total Cover		Total % Cover of: Multiply by:
50% of total cover	40		0	
Sapling/Shrub Stratum (Plot size: 30)	<u>207</u>	o or total cover.		
	/			$FAC species \qquad 85 \qquad x3 = 255$
2		·		$EACU \text{ species} \qquad 10 \qquad x 4 = -40$
3		·		$\frac{1}{10}$
3. 	-	·		Column Totale: 05 (A) 205 (B)
4		·		Column Totals: 95 (A) 295 (B)
5				Prevalence Index = B/A = <u>3.11</u>
0				A Denid Test for Undershutin Vesstation
/	-	· ·		1 - Rapid Test for Hydrophytic Vegetation
8			<u> </u>	X 2 - Dominance Test is >50%
9	-			3 - Prevalence Index is ≤3.0
		= I otal Cover		4 - Morphological Adaptations (Provide supporting
50% of total cover:	20%	of total cover:		
Herb Stratum (Plot size: 5')				Problematic Hydrophytic Vegetation (Explain)
1. Microstegium vimineum	40	Yes	FAC	¹ Indicators of hydric soil and wetland hydrology must be
2. Polystichum acrostichoides	5	No	FACU	present, unless disturbed or problematic.
3				Definitions of Four Vegetation Strata:
4				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
5	-			more in diameter at breast height (DBH), regardless of
6				neight.
7				Sapling/Shrub - Woody plants, excluding vines, less
8	· · · · ·			than 3 in. DBH and greater than or equal to 3.28 ft
9				
10		· <u>· · · · · · ·</u> ·		Herb – All herbaceous (non-woody) plants, regardless
11	_			of size, and woody plants less than 3.28 ft tall.
	45	=Total Cover		Woody Vine – All woody vines greater than 3.28 ft in
50% of total cover:	23 20%	6 of total cover:	9	height.
Woody Vine Stratum (Plot size: 15')				
1. Smilax rotundifolia	5	Yes	FAC	
2.				
3.				
4.	_			
5.				
	5	=Total Cover		Hydrophytic
50% of total cover:	3 20%	of total cover:	1	Present? Yes X No
Remarks: (Include photo numbers here or on a sep	arate sheet.)			

SOIL

Profile Desc	cription: (Describe) Matrix	to the de	pth needed to doc	ument t	he indica	tor or co	onfirm the ab	sence of indicat	tors.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	7.000	Remark	S
0-6	10YR 4/2	95	10YR 5/8	5	С	PL	Loamy/Cla	yey Prom	inent redox co	ncentrations
6-12	10YR 5/2	95	10YR 5/8	5	<u> </u>		Loamy/Cla	yey Prom	inent redox co	ncentrations
						_				
¹ Type: C=Co	oncentration, D=Depl	etion, RN	Reduced Matrix, I	//S=Mas	ked Sand	Grains.	² L	ocation: PL=Por	re Lining, M=M	atrix.
Hydric Soil	Indicators:							Indicators for	Problematic	Hydric Soils
Histosol	(A1)		Polyvalue B	elow Su	face (S8	(MLRA	147, 148)	2 cm Muc	k (A10) (MLRA	147)
Histic Ep	pipedon (A2)		Thin Dark S	urface (S	69) (MLR	A 147, 14	48)	Coast Pra	irie Redox (A1	6)
Black Hi	stic (A3)		Loamy Muc	ky Miner	al (F1) (N	ILRA 136	5)	(MLRA	147, 148)	
Hydroge	n Sulfide (A4)		Loamy Gley	ed Matri	x (F2)			Piedmont	Floodplain Soi	ls (F19)
Stratified	d Layers (A5)		X Depleted Ma	atrix (F3)				(MLRA	136, 147)	
2 cm Mu	ıck (A10) (LRR N)		Redox Dark	Surface	(F6)			Red Parer	nt Material (F2	1)
Depleted	d Below Dark Surface	e (A11)	Depleted Da	rk Surfa	ce (F7)			(outside	e MLRA 127, 1	47, 148)
Thick Da	ark Surface (A12)		Redox Depr	essions	(F8)			Very Shall	ow Dark Surfa	ce (F22)
Sandy M	lucky Mineral (S1)		Iron-Mangar	nese Ma	sses (F12	2) (LRR N	١,	Other (Exp	olain in Remark	ks)
Sandy G	Gleyed Matrix (S4)		MLRA 13	6)						
Sandy R	Redox (S5)		Umbric Surf	ace (F13	B) (MLRA	122, 136	5)	³ Indicators of h	hydrophytic veg	getation and
Stripped	Matrix (S6)		Piedmont Fl	oodplair	Soils (F	19) (MLR	A 148)	wetland hy	drology must	be present,
Dark Su	rface (S7)		Red Parent	Material	(F21) (M	LRA 127	, 147, 148)	unless dis	turbed or probl	ematic.
Restrictive I	Layer (if observed):									
Туре:							1.134.121			
Depth (ir	nches):						Hydric Soi	I Present?	Yes X	No
Remarks:										

U.S. Arm WETLAND DETERMINATION DATA See ERDC/EL TR-07-24	ny Corps of Engineer SHEET – Eastern Mount the proponent agency	s ains and Piedmont Region / is CECW-CO-R	OMB Control #: 0710-xxxx, Exp: Pending Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
Project/Site: Hamlets Chapel Property / S Applicant/Owner: Coffey Grounds, Inc Investigator(s): D. Gainey	Sage Project #2020.005	City/County: Pittsboro / Cha	tham Sampling Date: 02/03/2020 State: NC Sampling Point: DP2 UP
Landform (hillside, terrace, etc.): <u>hillsiope</u> Subregion (LRR or MLRA): <u>LRR P, MLRA</u> Soil Map Unit Name: <u>We - Wedowee sand</u> Are climatic / hydrologic conditions on the s	Lat: <u>35.8037°N</u> Jy loam	cal relief (concave, convex, none Long: 79.14 ar? Yes N): concave Slope (%): 0.5 31°W Datum: NAD83 NWI classification:
Are Vegetation, Soil, or Hyd Are Vegetation, Soil, or Hyd SUMMARY OF FINDINGS – Attac	rology significantly di rology naturally probl h site map showing s	Isturbed? Are "Normal Circun lematic? (If needed, explain sampling point locations	nstances" present? Yes No any answers in Remarks.) , transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes No X Yes No X Yes No X	Is the Sampled Area within a Wetland?	Yes No_X
HYDROLOGY Wetland Hydrology Indicators:		Sec	condary Indicators (minimum of two required)
Primary Indicators (minimum of one is req Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (Water-Stained Leaves (B9) Aquatic Fauna (B13)	uired; check all that apply) True Aquatic Plants Hydrogen Sulfide Oc Oxidized Rhizosphe Presence of Reduce Recent Iron Reducti Thin Muck Surface (Other (Explain in Re	(B14) dor (C1) res on Living Roots (C3) ed Iron (C4) on in Tilled Soils (C6) (C7) marks)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, r	No X Depth (inch No X Depth (inch No X Depth (inch nonitoring well, aerial photos	nes): nes): Wetland Hydr s, previous inspections), if availat	ology Present? Yes <u>No X</u> ole:
Remarks:			

VEGETATION (Four Strata) - Use scientific names of plants.

Sampling Point: DP2 UP

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:
1. Carya alba	30	Yes	UPL	Number of Dominant Species
2. Liriodendron tulipifera	20	Yes	FACU	That Are OBL, FACW, or FAC: 0 (A)
3. Ulmus americana	10	No	FACW	Total Number of Dominant
4. Ilex opaca	5	No	FACU	Species Across All Strata: 3 (B)
5				
6				That Are OBL EACW or EAC: 0.0% (A/R)
7				Brovalance Index worksheet:
<i>I</i>		T.1.10		Trevalence index worksheet.
	65	= I otal Cover		I otal % Cover of: Multiply by:
50% of total cover:	33 20%	of total cover:	13	OBL species x 1 =0
Sapling/Shrub Stratum (Plot size: 30')			FACW species 10 x 2 = 20
1	-	. <u></u> .		FAC species 0 x 3 = 0
2.				FACU species 35 x 4 = 140
3.				UPL species 30 x 5 = 150
4.				Column Totals: 75 (A) 310 (B)
5				Prevalence Index = $B/A = 4.13$
6				Hydrophytic Vegetation Indicators:
7				1 Papid Tast for Hydrophytic Vegetation
<i>r.</i>				
8				2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0'
		=Total Cover		4 - Morphological Adaptations' (Provide supporting
50% of total cover:	20%	of total cover:		data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5')				Problematic Hydrophytic Vegetation ¹ (Explain)
1. Polystichum acrostichoides	10	Yes	FACU	¹ Indicators of hydric soil and wetland hydrology must be
2.				present, unless disturbed or problematic.
3.				Definitions of Four Vegetation Strata:
4				
F.				more in diameter at breast beight (DBH) regardless of
5				height.
0.				
7				Sapling/Shrub – Woody plants, excluding vines, less
/·				I than 3 in. DBH and greater than or equal to 3.28 ft
8.				
8 9				(1 m) tall.
8 9 10		_	_	(1 m) tall. Herb – All herbaceous (non-woody) plants, regardless
8 9 10 11.	_	\equiv	=	(1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
8 9 10 11		=Total Cover	<u> </u>	 (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in
8 9 10 11	 	=Total Cover		 (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in height.
8.	 10 20%	=Total Cover	2	 (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in height.
8. 9. 10. 11. 50% of total cover: <u>Woody Vine Stratum</u> (Plot size: 15'	 520%	=Total Cover		 (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in height.
8. 9. 10. 11. 50% of total cover: <u>Woody Vine Stratum</u> (Plot size: 15' 1.	 520%	=Total Cover	2	 (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in height.
8. 9. 10. 11. 50% of total cover: <u>Woody Vine Stratum</u> (Plot size: <u>15'</u>) 1. 2.	 520%	=Total Cover		(1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in height.
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SOIL

Profile Desc	cription: (Describe	to the de	oth needed to doc	ument t	he indica	tor or co	onfirm the ab	sence of indic	ators.)		
Depth	Matrix		Redo	x Featu	res						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Rem	narks	
0-4	10YR 5/3	100					Loamy/Cla	yey			
4-12	10YR 6/4	100					Loamy/Cla	yey			
		_			_	=					_
						Grains	21		ore Lining N	A=Matrix	_
Hydric Soil	Indicators:			no muo	nou oun	orano.		Indicators f	or Problema	tic Hydric	Soils ³ :
Histosol	(A1)		Polyvalue B	elow Su	face (S8	(MLRA	147, 148)	2 cm Mu	ick (A10) (M	LRA 147)	eene .
Histic Er	pipedon (A2)		Thin Dark S	urface (S	59) (MLR	A 147. 14	48)	Coast P	rairie Redox	(A16)	
Black Hi	stic (A3)		Loamy Much	v Miner	al (F1) (N	ILRA 136	5)	(MLR/	A 147, 148)	(/110)	
Hydroge	on Sulfide (A4)		Loamy Glev	ad Matri	v (F2)		.,	Piedmor	t Floodolain	Soile (F10)	
Stratifier	Lavers (A5)		Depleted Ma	triv (E3)	~ (1 2)			(ML R	A 136 147)	0013 (1 13)	
2 cm Mi			Depieted wa	Surface	(E6)			Red Par	ent Material	(E21)	
Depleter	d Rolow Dark Surface	(111)	Redux Dark	rk Surfa	(F7)			(outoi		(121) 7 447 449	,
Depieted	a Below Dark Surface	(ATT)	Depieted Da	IK Sulla				VoruSh	allow Dark S	urface (E22	,
	Ark Surface (A12)		Redox Depi		(FO)			Very Sh	allow Dark S)
Sandy N	Nucky Mineral (S1)		Iron-Mangar	iese Ma	sses (F12		ν,		xplain in Rei	marks)	
Sandy G	Bieyed Matrix (54)		MLRA 13) (E4		400 400		31	6 h		
Sandy R	Address (SS)		Ombric Suna			122, 130		Indicators o	nyaropnyuc	vegetation	and
Supped Dark Su	rface (S7)		Red Parent	Material	(F21) (M	LRA 127	, 147, 148)	unless d	listurbed or p	oroblematic.	ent,
Restrictive	Layer (if observed):										
Type:											
Depth (in	nches):						Hydric Soi	I Present?	Yes	No X	(
Remarks.							0.000				_
ICHIAIKS.											

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CHATHAM COUNTY		Website: <u>www.chathamnc.</u>
	Date Received:	PL#
Rij Surf	parian Buffer Review Applie face Water Identification Req Major Subdivisions	<i>cation</i> quest for
Tract Information		
Parcel #: 61669 / 68866 / 1795 W	atershed District (and name of	creek if known):
Property Owner: Coffey Grou	unds of Chapel Hill	
Location/Physical Address of Tract:	1.6 miles west of US-15/U	US-501 on Hamlet's Chapel Re
Driving Directions from Pittsboro: Chapel Road. Site is on right in 1.6 miles.	Drive north on US-15/U	JS-501. Turn left on Hamet
Subdivision Name (if applicable):	lamlet's Ridge	
Owner's/Agent Contact Information	(Agent: Consultant, Real Estate	e Agent, Surveyor, Other) Circle one
Owner's/Agent Contact Information Name: Kim Hamlin - Cons	(Agent: Consultant, Real Estate sultant	e Agent, Surveyor, Other) Circle one
Owner's/Agent Contact Information Name: Kim Hamlin - Cons Contact Phone Numbers: (h)	(Agent: Consultant, Real Estate	e Agent, Surveyor, Other) Circle one
Owner's/Agent Contact Information Name: Kim Hamlin - Cons Contact Phone Numbers: (h) E-mail: khamlin@sageece	(Agent: Consultant, Real Estate sultant (w) ological.com	e Agent, Surveyor, Other) Circle one
Owner's/Agent Contact Information Name: Kim Hamlin - Cons Contact Phone Numbers: (h) E-mail: khamlin@sageece Mailing Address: 3707 Swift	(Agent: Consultant, Real Estate sultant (w) ological.com Drive, Raleigh, NC 2	<u>e Agent, Surveyor, Other) Circle one</u> (c) (919)244-0623 27605
Owner's/Agent Contact Information Name: Kim Hamlin - Cons Contact Phone Numbers: (h) E-mail: khamlin@sageece Mailing Address: 3707 Swift Do you wish to be contacted prior to	(Agent: Consultant, Real Estate sultant (w) ological.com Drive, Raleigh, NC 2 Chatham County staff visiting	e Agent, Surveyor, Other) Circle one (c) (919)244-0623 (c) 27605 the property? ☑ Yes □ No
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Watershed Protection Department Website: www.chathamnc.org

Riparian Buffer Review Application Surface Water Identification Request

Eastern Mountains and Piedmont Region, digital photographs, notes, sketches, etc.

☑ NRCS map with property boundary depicted

USGS map with property boundary depicted

Statement of Credentials (Training Certificate for NCDWQ/NC State University Surface Waters Classification course, 2 years of jurisdictional wetland delineation according to the Eastern Mountains and Piedmont Regional Supplement to the 1987 US Corps of Engineers Wetland Delineation Manual)

Signed Right to Enter Property Form

Signed Owner's Agent Designation Form

Fee (make checks payable to Chatham County) **<u>\$100 per feature confirmed onsite</u>**

Feature is defined as any surface water that is subject to Chatham County Riparian Buffers (streams, wetlands, ponds)

Total Number of Features: _____

Total Paid: \$ 1,000.00	Total Paid: \$	1,600.00	
-------------------------	----------------	----------	--

I have read and understand the regulations of the Watershed Protection Ordinance, Section 304, and I agree to adhere to these associated policies and guidelines herein.

Owner/Agent Signature:	John Coffin	Date: 12/17/2020	
			ſ

DocuSign Envelope ID: 0E0ABCCF-CD5D-4A0E-85D2-2C87F7BE0C0F





CHATHAM COUNTY

AUTHORIZED AGENT FOR FORM

PROPERTY LEGAL DESCRIPTION:

LOT NO. _____ PARCEL ID (PIN) _____61669 / 68866 / 1795 ____PARCEL SIZE _____67.53 / 6.497 / 20 acres

STREET ADDRESS: 1.6 miles west of US-15/US-501 on Hamlet's Chapel Road

Please print:

Property Owner: Coffey Grounds of Chapel Hill, Inc. - Mr. John Coffey (61669 / 68866)

Property Owner: Harris, Dan F. & Harris, Walter F. (1795)

The undersigned owner(s) of the above described property, do hereby authorize

Kim Hamlin	, of Sage Ecological Services, Inc.	
(Contractor / Agent)	(Name of consulting firm if applicable)	

to act on my/our behalf and take all actions, I/we could have taken if present, necessary for the processing, issuance and acceptance of reviews, inspections, or permits and any and all standard and special conditions attached to these approvals. The activities authorized include the following (**Check all that apply**):

Check here for all of the below options.

	Building Permit
	Zoning Compliance Permits
	Floodplain Determination
	Soil Erosion & Sedimentation Control Permit
	Permits to install, repair, evaluate, or expand onsite wastewater system(s)
	Evaluation/inspection/permitting of a private drinking water well(s).
V	Riparian Buffer Review pursuant to §304 of the Chatham Co. Watershed Protection Ordinance.
	Other:

Property Owner's Address (if different than property above):

John Coffey, 1127 Arya Lane, Chapel Hill, NC 27516

Telephone: (919) 923-9444

E-mail: coffeygrounds@att.net

We hereby certify the above information submitted in this application is true and accurate to the best of our knowledge.

Dan Harris 11/25/2020

Owner Authorized Signature

Agent Authorized Signature

Date: Postiguent by: Patty Ramis Sublement by: Postiguent by: Postiguent

Date:





CHATHAM COUNTY

AUTHORIZED AGENT FOR FORM

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✓ Check here for all of the below options.

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 Zoning Compliance Permits
 Floodplain Determination
 Soil Erosion & Sedimentation Control Permit
 Permits to install, repair, evaluate, or expand onsite wastewater system(s)
 Evaluation/inspection/permitting of a private drinking water well(s).
 Riparian Buffer Review pursuant to §304 of the Chatham Co. Watershed Protection Ordinance.
 Other:
 Colley Ground of Choyo I Multimedia Water of the Chatham Co. Watershed Protection Ordinance.

John Coffey, 11	27 Arya Lane, Chapel Hill, NC 27516	Walte	eHARRIS, 281Hillsborost, PO Box 207	~
	Cotfey grounds catt. n	et	WFHARRIS 67 @ Cmai 1. Om P, Hshore NC	-
Telephone:	919-942-6677	E-mail:		

We hereby certify the above information submitted in this application is true and accurate to the best of our knowledge,

Owner Authorized Signature -

Date: 11-25-2020 Andred Sarris 11-25-2020

Agent Authorized Signature y Date: 12-08-2020



Date:

Watershed Protection Department

P.O. Box 548 Pittsboro, NC 27312

Website: www.chathamnc.org

____, as owner of the property described above,

Authorization to Enter Property Form

PARCEL No. (AKPAR) 61669 / 68866

I, (print name) John Coffey

or as a representative of the owner(s) do hereby convey permission to Chatham County staff to enter the property at their convenience to conduct a surface water identification (SWID) necessary to determine whether or not water features on my property are subject to the riparian buffer regulations described in Section 304 of the Chatham County Watershed Protection Ordinance. The SWID will be public record and on file at the Planning and Watershed Protection Departments, and may be requested in the future for review by interested parties.

I understand that stream delineations for the property listed above will be made by County staff only once and that if future subdivisions are proposed within this property boundary, it will require a surface water identification by a private consultant at the property owner's expense.

John Coffey

(Print Owner's Name)

Kim Hamlin

(Print Authorized Agent Name)

-cocusigned ty: 11/25/2020 John Coffig

(Signature of Owner) (Date)

(Signature of Authorized Agent) (Date) DocuSign Envelope ID: 0E0ABCCF-CD5D-4A0E-85D2-2C87F7BE0C0F



Watershed Protection Department

P.O. Box 548 Pittsboro, NC 27312

Website: www.chathamnc.org

____, as owner of the property described above,

Authorization to Enter Property Form

Date:		
PARCEL No. (AKPAR)	1795	

I, (print name) Harris, Dan F. & Harris Walter F.

or as a representative of the owner(s) do hereby convey permission to Chatham County staff to enter the property at their convenience to conduct a surface water identification (SWID) necessary to determine whether or not water features on my property are subject to the riparian buffer regulations described in Section 304 of the Chatham County Watershed Protection Ordinance. The SWID will be public record and on file at the Planning and Watershed Protection Departments, and may be requested in the future for review by interested parties.

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consultant at the property owner's expense.

Dan and Patty Harris

(Print Owner's Name)

(Date) (Date) (Support of Owner) (Date) (Support of Owner)

Patty Harris

11/25/2020

Kim Hamlin

(Print Authorized Agent Name)

(Signature of Authorized Agent) (Date)



Date:

P.O. Box 548 Pittsboro, NC 27312

Website: www.chathamnc.org

Authorization to Enter Property Form

61669 / 68866 PARCEL No. (AKPAR)

I, (print name) John Coffey _, as owner of the property described above, or as a representative of the owner(s) do hereby convey permission to Chatham County staff to enter the property at their convenience to conduct a surface water identification (SWID) necessary to determine whether or not water features on my property are subject to the riparian buffer regulations described in Section 304 of the Chatham County Watershed Protection Ordinance. The SWID will be public record and on file at the Planning and Watershed Protection Departments, and may be requested in the future for review by interested parties.

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consultant at the property owner's expense hapel Hill, In. John Coffey, President × by' Jol. W. Coffer, Pres i dent (Signature of Owner)

(Print Owner's Name)

Sean Clark

Print Authorized Agent Name)

(Date)

12-08-2020

(Signature of Authorized Agent) (Date)



P.O. Box 548 Pittsboro, NC 27312

Website: www.chathamnc.org

Authorization to Enter Property Form

Date:	
PARCEL No. (AKPAR) 1795	
I, (print name) Harris, Dan F. & Harris Walter F.	, as owner of the property described above.

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(Print Owner's Name Linda

1

(Print Authorized Agent Name)

~ 11-25-3020 1 11/25/2020 (Signature of Owner) (Date) (Date)

08-2020

(Signature of Authorized Agent) (Date)