

#### WATERSHED PROTECTION DEPARTMENT

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

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

February 10, 2023

Kimley-Horn Ms. Emma Radford 421 Fayetteville Street, Suite 600 Raleigh, NC 27601

Project Name:

Eden (Parcel 2949)

Location:

6181 US 15 501 N, Chatham County

Subject Features:

One (1) ephemeral segment, one (1) intermittent segment, two (2)

perennial segments, and five (5) potential wetlands

Chatham County WP#:

WP-23-41

Date of Determination:

February 7, 2023

Explanation:

The site was reviewed on January 10, 2023, by Emma Radford with Kimley-Horn on Parcel # 2949 that is located within the Jordan Lake watershed. Kimley-Horn personnel previously identified one (1) ephemeral segment, one (1) intermittent segment, one (1) perennial segment and five (5) potential wetlands on the property. Kimley-Horn 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.

The confirmation site visit was completed on February 7, 2023 by Drew Blake and Phillip Cox of Chatham County and Emma Radford and Caroline Vinter of Kimley-Horn. All stream type transition points were reviewed in the field. One (1) perennial transition point was added along S1 just north of W4.

Required Riparian Buffers:

All ephemeral stream segments will require a 30-ft buffer riparian buffer from the top of bank landward. All intermittent stream segments will require a 50-ft buffer from the top of bank landward. All perennial stream segments will require a 100-ft buffer from the top of bank landward. All identified wetlands will require a 50-ft buffer proceeding landward from the flagged wetland boundary.

The potential wetlands identified by Kimley-Horn has 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.

**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.





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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

Assistant Director, CESSWI

Drew Bluke

#### Enclosures:

Figure 1: Site Vicinity Map – Completed by Kimley-Horn

Figure 2: USGS Topographic Map – Completed by Kimley-Horn

Figure 3: Delineated Features Map

Surface Water & Riparian Buffer Spreadsheet

Figure 4: NRCS Soil Survey-Completed by Kimley-Horn

Kimley-Horn Stream ID Forms

Kimley-Horn Wetland Data Form

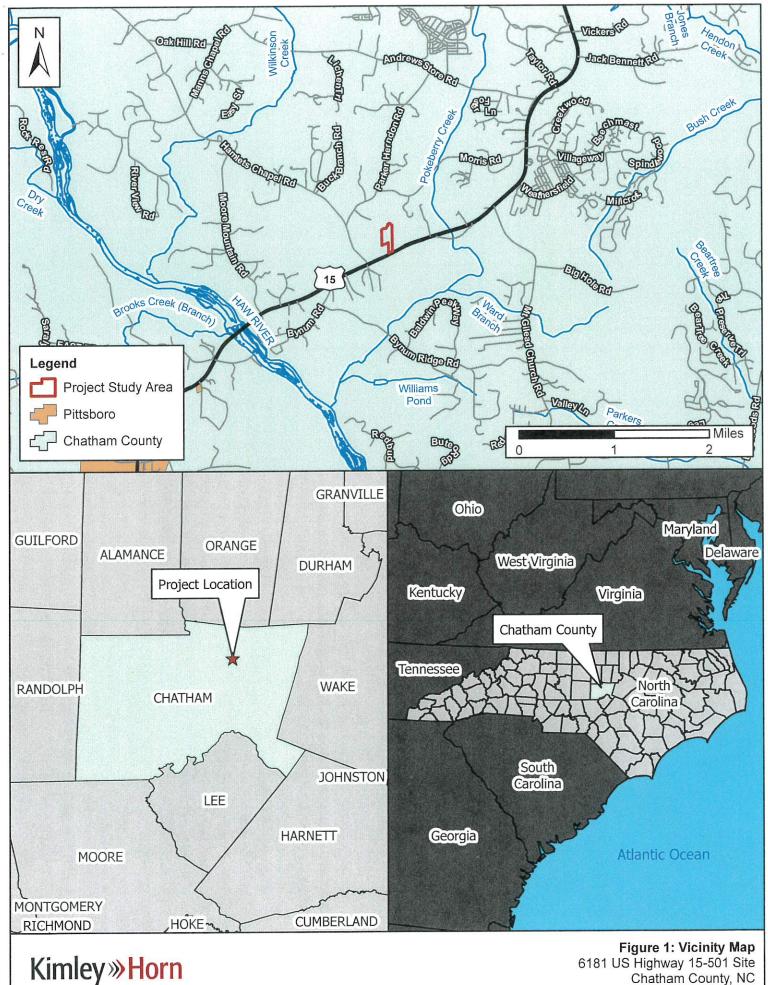
Major Subdivision Riparian Buffer Application

Authorized Agent Form

Authorization to Enter Property Form

CC:

Taylor Burton, Watershed Specialist, Chatham County Watershed Protection Department Phillip Cox, Watershed Specialist, Chatham County Watershed Protection Department Justin Hasenfus, Senior Watershed Specialist, 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



6181 US Highway 15-501 Site Chatham County, NC January 2023

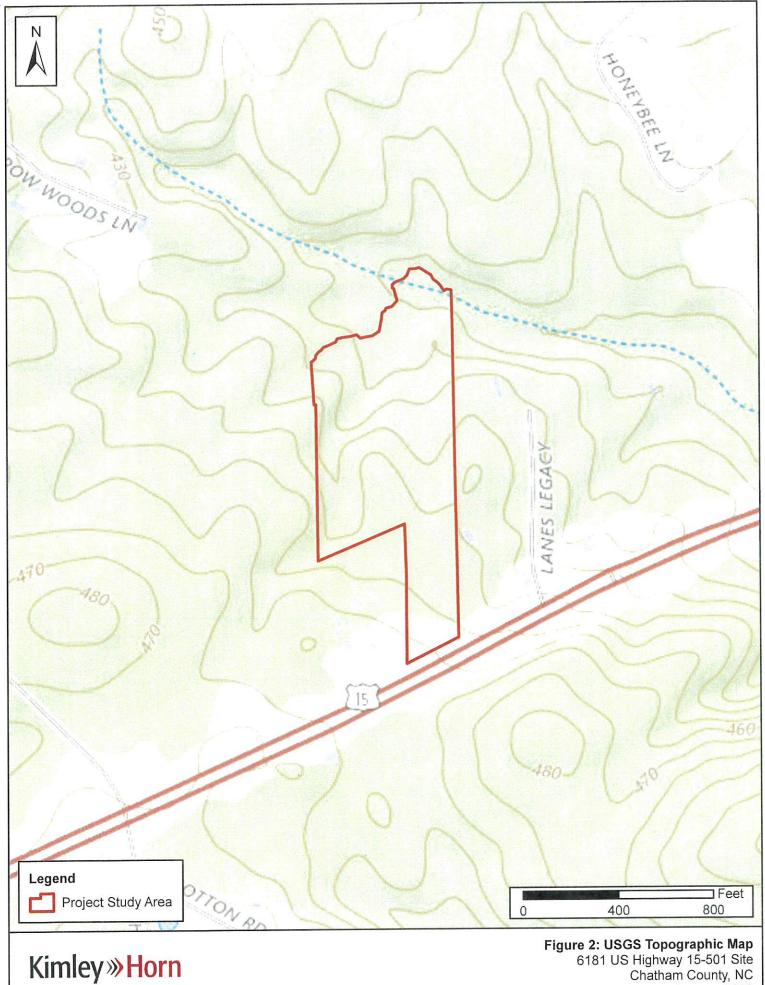


Figure 2: USGS Topographic Map 6181 US Highway 15-501 Site Chatham County, NC January 2023

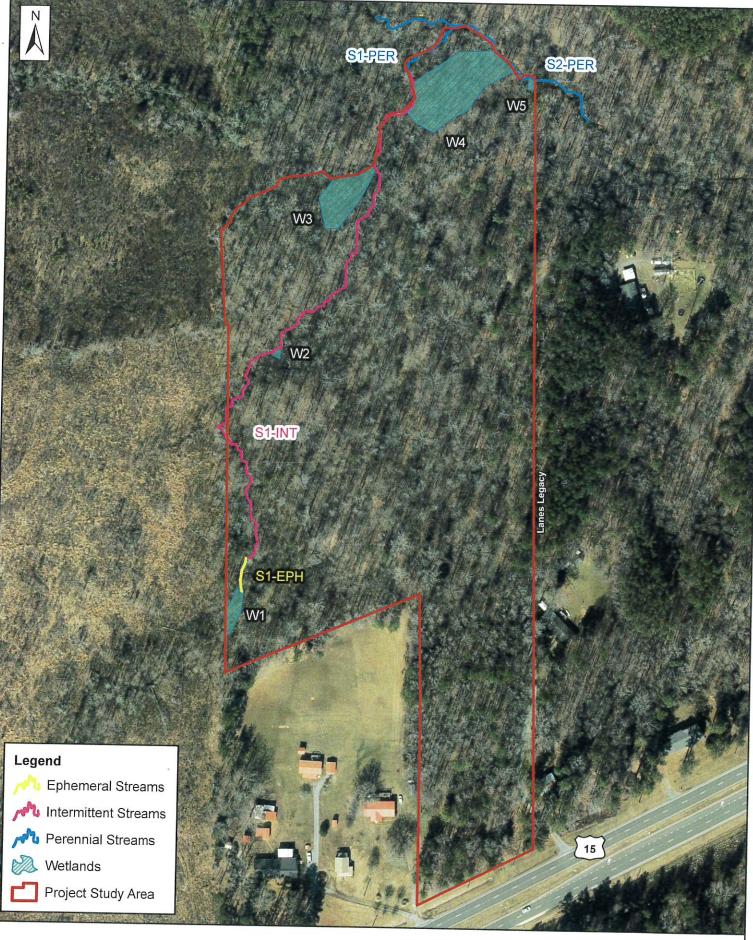


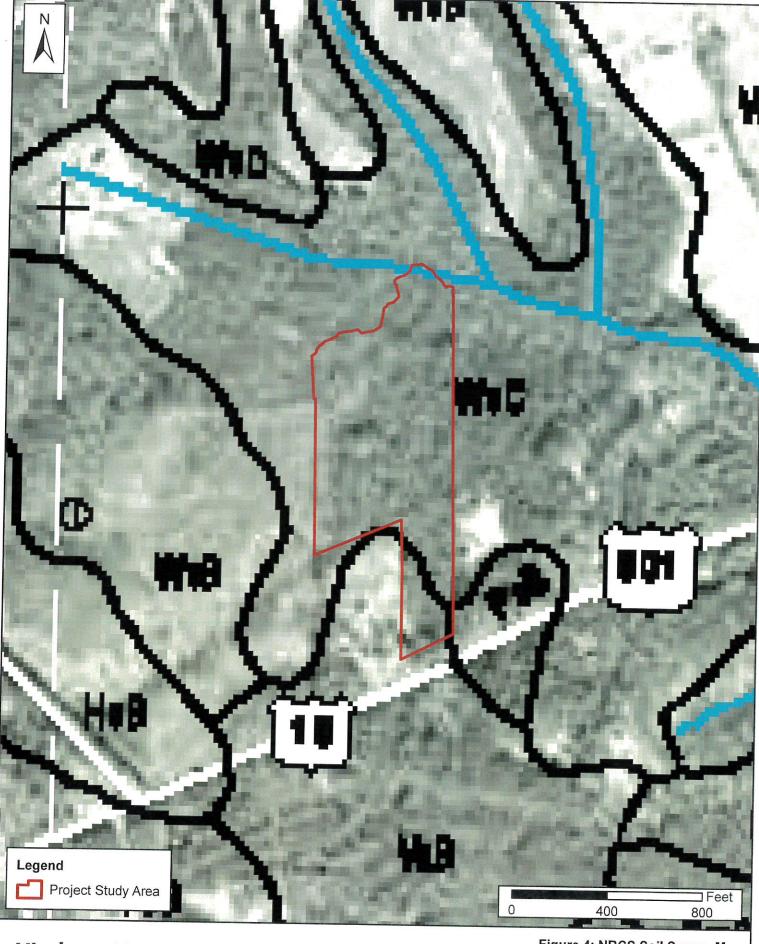


Figure 3: Delineated Features Map 6181 US Highway 15-501 Site Chatham County, NC February 2023

# **Eden Subdivision**

Surface Water & Riparian Buffer Spreadsheet Completed By: Emma Radfird, WPIT, CA - Kimley-Horn

	1	7	-, 611 1111110, 110	7111		
	Stream/Wetland Data Form ID	Stream Length or Wetland Acres	Latitude	Longitude	Buffer Required	Buffer Jurisdiction (Jordan, County + Jordan)
and	W1/W2-WET	0.037 acres	35.788036	-79.121173	50' Jurisdictional Wetland	County
and	W1/W2-WET	0.004 acres	35.789368	-79.120934	50' Jurisdictional Wetland	County
and	W3/W4/W5-WET	0.144 acres	35.790174	-79.120523	50' Jurisdictional Wetland	County
and	W3/W4/W5-WET	0.372 acres	35.790739	-79.119822	50' Jurisdictional Wetland	County
and	W3/W4/W5-WET	0.006 acres	35.790775	-79.119348	50' Jurisdictional Wetland	County
	Stream S1-EPH	64 LF	35.788230	-79.121132	30' (Ephemeral)	County
	Stream S1-INT	1,085 LF	35.789707	-79.120525	50' (Intermittent)	County + Jordan
	Stream S1-PER	140 LF	35.791037	-79.119875	100' (Perennial)	County + Jordan
	Stream S2	55 LF	35.790799	-79.119402	100' (Perennial)	County + Jordan
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Y						
-						



Kimley»Horn

Figure 4: NRCS Soil Survey Map 6181 US Highway 15-501 Site Chatham County, NC January 2023

Date:	1/10/2023	Project/Site:	6181 US Highway 15-501 Site/Stream S1-EPH	Latitude:	35.788229	
Evaluator:	E. Radford, WPIT & C. Vinter (Kimley-Horn)	County:	Chatham County	Longitude:	-79.121132	
Total Poir	nts: 17.5	Stream Dete	rmination (circle one)	Other		
Name of the second	60 CO. C.	Ephemeral ntermittent Perennial		e.g. Quad Name:	Farrington	
if ≥ 19 or pere	nnial if ≥ 30					

A. Geomorphology Subtotal = 7.5	Absent	Weak	Moderate	Strong	Score
1 <sup>a</sup> . Continuity of channel bed and bank	0	1	2	3	1
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
Particle size of stream substrate	0	1	2	3	1
5. Active/relic floodplain	0	1	2	3	1
Depositional bars or benches	0	1	2	3	0
7. Recent alluvial deposits	0	1	2	3	2
8. Headcuts	0	1	2	3	1
9. Grade control	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 :		0

B. Hydrology Subtotal =	6
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12. Presence of Baseflow	0	1	2	3	2
13. Iron oxidizing bacteria	0	1	2	3	0
14. Leaf litter	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	0.5
17. Soil-based evidence of high water table?	No:	= 0	Yes	= 3	3

# C. Biology Subtotal =

2 1 1 0.5	1 2 2	0 3 3	3 0			
1 1	2 2	3	0			
1	2	3	0			
0.5						
1 0.5	1 1	1.5	0			
0.5	1	1.5	0			
0.5	1	1.5	0			
0.5	1	1.5	0			
26. Wetland plants in streambed FACW = 0.75; OBL = 1.5; Other = 0						
	0.5 0.5	0.5 1 0.5 1	0.5 1 1.5 0.5 1 1.5			

#### Notes

Stream S1-EPH is an ephermal reach that originates at a headcut below wetland W1. Stream S1-EPH has very low banks and significant sedimentation within the stream channel. A moderate amount of fibrous roots and no biology were observed at the time of data collection.

Date:	1/10/2023	Project/Site	6181 US Highway 15-501 Site/Stream S1-INT	Latitude:	35.789690
Evaluator:	E. Radford, WPIT & C.Vinte (Kimley-Horn)	County:	Chatham County	Longitude:	-79.120558
Total Poir Stream is at le if ≥ 19 or pere	east intermittent	Stream De Ephemera	termination (circle one) Intermittent Perennial	Other e.g. Quad Name:	Farrington

A. Geomorphology Subtotal = 14.5	Absent	Weak	Moderate	Strong	Score
1 <sup>a</sup> . Continuity of channel bed and bank	0	1	2	3	3
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	3
Particle size of stream substrate	0	1	2	3	2
5. Active/relic floodplain	0	1	2	3	0
Depositional bars or benches	0	1	2	3	1
7. Recent alluvial deposits	0	1	2	3	1
8. Headcuts	0	1	2	3	2
9. Grade control	0	0.5	1	1.5	0
10. Natural valley	0	0.5	1 1	1.5	0.5
11. Second or greater order channel	No =	0	Yes:		0

B. Hydrology Subtotal =	8.5
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17. Soil-based evidence of high water table?	No:	= 0	Yes	= 3	3
16. Organic debris lines or piles	0	0.5	1	1.5	1.5
15. Sediment on plants or debris	0	0.5	1	1.5	0.5
14. Leaf litter	1.5	1	0.5	0	0.5
13. Iron oxidizing bacteria	0	1	2	3	0
12. Presence of Baseflow	0	1	2	3	3

# C. Biology Subtotal = 5.5

18. Fibrous roots in streambed	3	2	1	0	2	
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	0.5	
26. Wetland plants in streambed FACW = 0.75; OBL = 1.5; Other = 0						
perennial streams may also be identified using other methods. See p. 35 o	f manual.				Ministration of the last	

#### Notes

Stream S1-INT is an intermittent channel that originates at a large headcut below stream S1-EPH and flows along the southwestern boundary of the study area, eventually flowing into stream S2. Stream S1-INT has strong baseflow and continuous bed and back throughout the reach. Some algae was observed within the channel of stream S1-INT. Sand, Gravel, and Sandstone substrate were observed throughout S1-INT.

Date:	2/7/2023		Project/Site:	6181 US Highway 15-501 Site/Stream S1-PER	Latitude:	35.790931
Evaluator:	E. Radford, WPIT & C.V (Kimley-Horn)	inter	County:	Chatham County	Longitude:	-79.120003
Total Poir Stream is at le if ≥ 19 or pere	east intermittent	34	Stream Dete Ephemeral I	rmination (circle one) ntermittent Perennial	Other e.g. Quad Name:	Farrington

A. Geomorphology Subtotal = 18	Absent	Weak	Moderate	Strong	Score
1 <sup>a</sup> . Continuity of channel bed and bank	0	1	2	3	3
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	3
Particle size of stream substrate	0	1	2	3	2
5. Active/relic floodplain	0	1	2	3	2
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 control	0	0.5	1	1.5	1
10. Natural valley	0	0.5	1 1	1.5	1
11. Second or greater order channel	No =	0	Yes :		0

B. Hydrology Subtotal =	9.5
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12. Presence of Baseflow	0	1 1	2	3	3
13. Iron oxidizing bacteria	0	1	2	3	1
14. Leaf litter	1.5	1	0.5	0	1.5
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	0.5
17. Soil-based evidence of high water table?	No = 0		Yes = 3		3

## C. Biology Subtotal = 6.5

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	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	0.5
26. Wetland plants in streambed	FACW = 0.75; OBL = 1.5; Other = 0				
*perennial streams may also be identified using other methods. See p. 35 o	f manual.				

#### Notes

Stream S1-PER is a perennial stream that originates at a grade change below stream S1-INT and flows north, eventually flowing into stream S2-PER. Stream S1-PER has strong baseflow and high, incised banks, with evidence of increased sediment deposition and sloughing banks. Small amounts of algae were present throughout the observed reach, with no other biology observed at the time of data collection. Sand and gravel substrate were observed within the S1-PER reach, with bedrock observed at the origin.

Date:	1/10/2023	Project/Site:	6181 US Highway 15-501 Site/Stream S2-PER	Latitude:	35.790894
Evaluator:	E. Radford, WPIT & C.Vinter (Kimley-Horn)	County:		Longitude:	-79.119521
Total Points:  Stream is at least intermittent if ≥ 19 or perennial if ≥ 30		Stream Dete Ephemeral I	rmination (circle one) ntermittent Perennial	Other e.g. Quad Name:	Farrington

A. Geomorphology Subtotal = 20	Absent	Weak	Moderate	Strong	Score
1 <sup>a</sup> . Continuity of channel bed and bank	0	1	2	3	3
Sinuosity of channel along thalweg	0	1	2	3	2
3. In-channel structure: ex. riffle-pool, step-pool, ripple-				3	
pool sequence	0	1	2	3	3
Particle size of stream substrate	0	1	2	2	2
5. Active/relic floodplain	0	1	2	3	2
6. Depositional bars or benches	0	1	2	3	2
7. Recent alluvial deposits	0	1	2	3	4
8. Headcuts	0	1	2	3	0
9. Grade control	0	0.5	1 1	1.5	
10. Natural valley	0	0.5	1 1		0.5
11. Second or greater order channel	No =		Yes =	1.5	1.5 3

В.	Hydrology Subtotal =	10
10	D (D. G	

12. Presence of Baseflow	1 0	1 1	2	2	The series of the
13. Iron oxidizing bacteria	0	1	2	2	3
14. Leaf litter	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	<del></del>	1.5	1
17. Soil-based evidence of high water table?	No = 0		Yes	3	

C.	Biology Subtotal =	6

18. Fibrous roots in streambed	3	2	1		2	
19. Rooted upland plants in streambed	3	2	1	0	2	
20. Macrobenthos (note diversity and abundance)	0	1	2	1 2	3	
21. Aquatic Mollusks	0	+ + +	2	1 3	0	
22. Fish	0	0.5		3	0	
23. Crayfish	0	0.5	1	1.5	0	
24. Amphibians	0	0.5		1.5	0	
25. Algae	0		1	1.5	0	
26. Wetland plants in streambed	0 0.5 1 1.5				1	
	vetland plants in streambed FACW = 0.75; OBL = 1.5; Other = 0 ial streams may also be identified using other methods. See p. 35 of manual.					

#### Notes:

Stream S2-PER is a perennial stream that originates offsite and flows east along the northern boundary of the study area where it continues offsite. Stream S2-PER has strong baseflow and high, incised banks. Moderate amounts of algae were present throughout the observed reach, with no other biology observed at the time of data collection. Sand, Cobble, Gravel, and Sandstone substrate were observed throughout the S2-PER reach.

# WETLAND DETERMINATION DATA SHEET – Eastern Mountains and Piedmont Region See ERDC/EL TR-12-9; the proponent agency is CECW-CO-R

Project/Site: 6181 US Highway 15-501 S	Site	City/County: Chathan	n County	Sampling Date: 01/10/202	
Applicant/Owner: Prestige Construction	on & Land Development, LL		State: NC	Sampling Point: W1/W2-U	
Investigator(s): E. Radford, WPIT & C.Vin		Section, Township, Range		_ Gamping Font	
Landform (hillside, terrace, etc.): Hillslop		ocal relief (concave, convex		Clana (0/): E 100/	
Subregion (LRR or MLRA): LRR P, MLRA				Slope (%): 5-10%	
Soil Map Unit Name: WeC - Wedowee sa		Long.	-79.1211474	Datum: NAD83	
			NWI classifica		
Are climatic / hydrologic conditions on the		· · · · · · · · · · · · · · · · · · ·		explain in Remarks.)	
Are Vegetation, Soil, or Hyd			Circumstances" present	? Yes X No	
Are Vegetation, Soil, or Hyd	Irology naturally prob	lematic? (If needed, ex	oplain any answers in Re	emarks.)	
SUMMARY OF FINDINGS – Attac	ch site map showing	sampling point locat	ions, transects, im	nportant features, etc.	
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled Area			
Hydric Soil Present?	Yes No X	within a Wetland?	Yes	Ma V	
Wetland Hydrology Present?	Yes No X	Within a Woulding:	165	No_X_	
Remarks:					
A representative upland data point for wet	ands vv1 and vv∠ was takei	n on a hillslope approximate	ly 10 feet from and 5 fe	et higher than wetland W1.	
HYDROLOGY					
Wetland Hydrology Indicators:		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Secondary Indicators	(minimum of two required)	
Primary Indicators (minimum of one is requ	uired; check all that apply)		Surface Soil Crac		
Surface Water (A1)	True Aquatic Plants	(B14)		ed 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)		
Water Marks (B1)	Presence of Reduce		Dry-Season Wate	r Table (C2)	
Sediment Deposits (B2)		on in Tilled Soils (C6)	Crayfish Burrows	(C8)	
Drift Deposits (B3)	Thin Muck Surface (0		Saturation Visible	on Aerial Imagery (C9)	
Algal Mat or Crust (B4)	Other (Explain in Rer	marks)	Stunted or Stresse		
Iron Deposits (B5)	Man conditions		Geomorphic Posit	tion (D2)	
Inundation Visible on Aerial Imagery (E	37)		Shallow Aquitard (	E1000000	
Water-Stained Leaves (B9)			Microtopographic		
Aquatic Fauna (B13)			FAC-Neutral Test	(D5)	
Field Observations:	**************************************				
Surface Water Present? Yes	No X Depth (inche	88 X			
Water Table Present? Yes	No X Depth (inche				
Saturation Present? Yes	No X Depth (inche	es): Wetland I	Hydrology Present?	Yes No _X	
(includes capillary fringe)					
Describe Recorded Data (stream gauge, m	onitoring well, aerial photos.	, previous inspections), if av	railable:		
Remarks;					
No primary or secondary wetland hydrology	indicators were observed				
No primary or secondary wedand nydrology	indicators were observed.				
				1	

VEGETATION (Four Strata) - Use scientific names of plants. Sampling Point: W1/W2-UP Absolute Indicator Tree Stratum (Plot size: 30 % Cover Species? Status Dominance Test worksheet: Liquidambar styraciflua 20 Yes FAC Number of Dominant Species Acer rubrum Yes FAC That Are OBL, FACW, or FAC: Liriodendron tulipifera 15 Yes **FACU** Total Number of Dominant 4. Quercus rubra 5 No **FACU** Species Across All Strata: 11 (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: (A/B) 7. Prevalence Index worksheet: 60 =Total Cover Total % Cover of: Multiply by: 50% of total cover: 30 20% of total cover: 12 OBL species x1 =Sapling/Shrub Stratum (Plot size: FACW species x2 =0 Acer rubrum Yes **FAC** FAC species 100 x3 =2. Clethra alnifolia 15 Yes FAC FACU species 50 x 4 =200 Liquidambar styraciflua 3. 15 Yes FAC UPL species 0 x5 =Prunus serotina 4. 10 No **FACU** Column Totals: 150 (A) 500 (B) 5. llex opaca 5 No **FACU** Prevalence Index = B/A = 3.33 6. Hydrophytic Vegetation Indicators: 7. 1 - Rapid Test for Hydrophytic Vegetation 8. X 2 - Dominance Test is >50% 9. 3 - Prevalence Index is ≤3.01 65 =Total Cover 4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) 50% of total cover: 20% of total cover: 13 Herb Stratum (Plot size: Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) 1. Asarum canadense Yes **FACU** <sup>1</sup>Indicators of hydric soil and wetland hydrology must be 2. Chasmanthium latifolium Yes **FACU** present, unless disturbed or problematic. 3. Polystichum acrostichoides 5 **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. 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.

15

10

8

=Total Cover

Yes

FAC

20% of total cover:

=Total Cover

20% of total cover:

Remarks: (Include photo numbers here or on a separate sheet.)

50% of total cover:

Woody Vine Stratum (Plot size: \_\_\_\_30 )

50% of total cover:

1. Smilax rotundifolia

3. 4. Gelsemium sempervirens

No

**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

Yes X

height.

Hydrophytic

Vegetation

Present?

Profile Desc	cription: (Describe	to the dep	th needed to doc	ument t	he indica	ator or o	onfirm the abser	ce of ind	icators.)	
Depth	Matrix			x Featur						
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	s	Re	marks
0-2	10YR 4/3	_100					Loamy/Clayey			
2-24	10YR 4/4	100				-	Loamy/Clayey		some gra	vel observed
				·	-					·
								-		
		_			( <del></del>			_		
				*						
<sup>1</sup> Type: C=Co	ncentration, D=Depl	etion, RM=	Reduced Matrix, M	 IS=Mask	ed Sand	Grains.	<sup>2</sup> Loca	tion: PL=	Pore Lining,	M=Matrix
Hydric Soil I	ndicators:									atic Hydric Soils <sup>3</sup> :
Histosol (	St. 1949.		Polyvalue Be	low Surf	ace (S8)	(MLRA	147, 148)		luck (A10) (N	
	ipedon (A2)		Thin Dark Su						Prairie Redox	
Black His	tic (A3)		Loamy Muck						A 147, 148)	. ( )
Hydrogen	Sulfide (A4)		Loamy Gleye						nt Floodplair	Soils (F19)
Stratified	Layers (A5)		Depleted Mat				; <del></del>	900000000000	A 136, 147)	100113 (1 13)
2 cm Muc	k (A10) (LRR N)		Redox Dark S	Surface (	(F6)				rent Material	(F21)
Depleted	Below Dark Surface	(A11)	Depleted Dar					_		27, 147, 148)
Thick Dar	k Surface (A12)		Redox Depre		(C) (C)					Surface (F22)
Sandy Mu	icky Mineral (S1)		Iron-Mangane		***	(LRR N	<u> </u>		Explain in Re	
Sandy Gle	eyed Matrix (S4)		MLRA 136)		( – ,	(		- Other (I	-xpiaiii iii Ne	iliaiks)
Sandy Re	dox (S5)		Umbric Surfa		(MLRA	122 136	) <sup>3</sup> Ir	dicators o	of hydronhytic	c vegetation and
Stripped N	Matrix (S6)		Piedmont Flo				•			ust be present,
Dark Surfa			Red Parent M						disturbed or p	
Restrictive La	ayer (if observed):					Ť			- I Clared of F	orobicitiatio.
Туре:										
Depth (inc	hes):						Hydric Soil Pre	sent?	Yes	No X
Remarks:	,								·	
No surface wa	ter, saturation, or wa	ter table w	ere observed within	n 24 inch	nes of the	e soil sur	face.			

WETLAND DETERMINATION DATA SHEET – Eastern Mountains and Piedmont Region See ERDC/EL TR-12-9; the proponent agency is CECW-CO-R

Project/Site: 6181 US Highway 15-501 Site City/County: Chatham County Sampling Patro 64/42/2020
Sampling Date: 01/10/2023
State: NC Sampling Point: W1/W2-WET
Investigator(s): E. Radford, WPIT & C.Vinter (Kimley-Horn) Section, Township, Range: N/A
Landform (hillside, terrace, etc.): Headwater Local relief (concave, convex, none): Concave Slope (%): 0-5%
Subregion (LRR or MLRA):         LRR P, MLRA 136         Lat:         35.7906146         Long: -79.1199713         Datum:         NAD83
Soil Map Unit Name: WeC - Wedowee sandy loam  NWI classification: None
Are climatic / hydrologic conditions on the city to miss I for the c
Are Vegetation Soil or Hydrology significantly disturbed? Are "Newsol City of the Company of the
Are Vegetation Coll
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No Is the Sampled Area
Hydric Soil Present? Yes X No within a Wetland? Yes X No Wetland Hydrology Present? Yes X No
Remarks:
Wetlands W1 and W2 are headwater wetlands. A representative wetland data point for wetlands W1 and W2 was taken within wetland W1. Wetland W1 originates offsite above stream S1 and channelizes into stream S1-EPH.
onginates offsite above stream S1 and channelizes into stream S1-EPH.
HYDROLOGY
Wetland Hydrology Indicators:  Secondary Indicators (minimum of two required)
Filmary indicators (minimum of one is required; check all that apply)  Surface Soil Cracks (B6)
A Surrace Water (A1)  True Aquatic Plants (B14)  Sparsely Vegetated Conceyo Surface (B0)
A riight Water Table (A2) Hydrogen Sulfide Odor (C1) X Drainage Patterns (B10)
X Saturation (A3) Oxidized Rhizospheres on Living Roots (C3) Moss Trim Lines (R16)
Water Marks (B1) Presence of Reduced Iron (C4) Dry-Season Water Table (C3)
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)
Agai Mat of Crust (B4) Other (Explain in Remarks) Stunted or Stressed Bloom (D1)
X Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)
X Water-Stained Leaves (B9)  Microtopographic Relief (D4)
Aquatic Fauna (B13) X FAC-Neutral Test (D5)
Field Observations:
Surface Water Present? Yes X No Depth (inches):
Water Table Present? Yes X No Depth (inches): 1
Saturation Present? Yes X No Depth (inches): 0 Wetland Hydrology Present? Yes X No
includes capillary linige)
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks:
aturation was observed at the soil surface and water table was observed at 1 inch below the soil surface of
Remarks: Saturation was observed at the soil surface and water table was observed at 1 inch below the soil surface. Surface water was observed ponded broughout wetland W1, however was not located at the wetland data point. Multiple drainage patterns were observed throughout wetland W1.
aturation was observed at the soil surface and water table was observed at 1 inch below the soil surface of
aturation was observed at the soil surface and water table was observed at 1 inch below the soil surface of
aturation was observed at the soil surface and water table was observed at 1 inch below the soil surface 2. f
aturation was observed at the soil surface and water table was observed at 1 inch below the soil surface 2. f

Troo Chartery (Diet eine 20	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30 )	% Cover	Species?	Status	Dominance Test worksheet:
1. Acer rubrum	25	Yes	FAC	Number of Dominant Species
2. Ulmus americana		Yes	FACW	That Are OBL, FACW, or FAC:8 (A)
3. Platanus occidentalis	10	No	FACW_	Total Number of Dominant
4. Liquidambar styraciflua	5	No	FAC	Species Across All Strata: 9 (B)
5.				Percent of Dominant Species
6.		-		That Are OBL, FACW, or FAC: 88.9% (A/B)
7.	-			Prevalence Index worksheet:
	60	=Total Cover		Total % Cover of: Multiply by:
50% of total cover:	30 20%	of total cover:	12	OBL species 0 x 1 = 0
Sapling/Shrub Stratum (Plot size: 30	)			FACW species 50 x 2 = 100
1. Acer rubrum	30	Yes	FAC	FAC species 145 x 3 = 435
2. Ligustrum sinense	20	Yes	FACU	FACU species 30 x 4 = 120
3. Ilex opaca	10	No	FACU	UPL species 0 x 5 = 0
4. Liquidambar styraciflua	10	No	FAC	
5.			1710	(B)
6.				Prevalence Index = B/A = 2.91
7.	-			Hydrophytic Vegetation Indicators:
8.		(1		1 - Rapid Test for Hydrophytic Vegetation
		-		X 2 - Dominance Test is >50%
9				X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
		Total Cover		4 - Morphological Adaptations (Provide supporting
· ·	35 20%	of total cover:	14	data in Remarks or on a separate sheet)
Herb Stratum (Plot size:)				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Chasmanthium laxum	20	Yes	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be
2. Juncus effusus	20	Yes	FACW	present, unless disturbed or problematic.
3. Microstegium vimineum	20	Yes	FAC	Definitions of Four Vegetation Strata:
4.		to delicate the second		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
5.				more in diameter at breast height (DBH), regardless of
6.	April 1 Control of the Control of th			height.
7.			<del></del>	0
8.				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft
9.				(1 m) tall.
10.				A SECOND
11.				Herb – All herbaceous (non-woody) plants, regardless
11.				of size, and woody plants less than 3.28 ft tall.
		Total Cover		Woody Vine – All woody vines greater than 3.28 ft in
50% of total cover: 30	20% c	of total cover:	12	height.
Noody Vine Stratum (Plot size:30)				
Smilax rotundifolia	25	Yes	FAC	
2. Vitis rotundifolia	10	Yes	FAC	
3.		•		
o.	<del>(                                    </del>	Y-		
	35 =	Total Cover		Hydrophytic
50% of total cover: 18		f total cover:	7	Vegetation
		r total cover		Present? Yes X No
Remarks: (Include photo numbers here or on a separ	ate sheet.)			

Depth	cription: (Describe	to the de				ator or c	onfirm the absence	of indicators.)
(inches)	Matrix Color (moist)	%		x Featu		. 2		
0-3	10YR 4/2	100	Color (moist)	%_	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
3-12	10YR 4/2	85	5YR 4/6	15			Loamy/Clayey Loamy/Clayey	Prominent redox concentrations
12-24	2.5Y 5/2	95	EVD 4/C	S		2000		
	2.31 3/2	85 	5YR 4/6	15		_M_	Loamy/Clayey	Prominent redox concentrations
<sup>1</sup> Type: C=Co	ncentration, D=Depl	etion, RM	=Reduced Matrix, M	 IS=Masl	 ked Sand	Grains.	<sup>2</sup> l ocation	 :: PL=Pore Lining, M=Matrix.
	(A1) ipedon (A2)		Polyvalue Be	rface (S	9) <b>(MLR</b> A	4 147, 14	147, 148) <u> </u>	cators for Problematic Hydric Soils 2 cm Muck (A10) (MLRA 147) Coast Prairie Redox (A16)
— <sup>Black His</sup> Hydrogen	itic (A3) Sulfide (A4)		Loamy Mucky			LRA 136	5)	(MLRA 147, 148)
	Layers (A5)		X Depleted Mat		. (1-2)		t	Piedmont Floodplain Soils (F19) (MLRA 136, 147)
	k (A10) (LRR N)		Redox Dark S	38.00	(F6)		F	Red Parent Material (F21)
	Below Dark Surface	(A11)	Depleted Dar		50 050		( <del></del> )	(outside MLRA 127, 147, 148)
	k Surface (A12) icky Mineral (S1)		Redox Depres				v	ery Shallow Dark Surface (F22)
	eyed Matrix (S4)		Iron-Mangane		ses (F12)	(LRR N	, C	Other (Explain in Remarks)
Sandy Re			MLRA 136) Umbric Surface		/MIDA	100 400	3	
Stripped N			Piedmont Floo					ators of hydrophytic vegetation and
Dark Surfa			Red Parent M				., All 100	retland hydrology must be present,
Restrictive La	yer (if observed):				/ (1812	127,	147, 140) u	nless disturbed or problematic.
Type:								
Depth (inc	hes):					- 1	Hydric Soil Preser	nt? Yes X No
lemarks: aturation was onded through	observed at the soil hout wetland W1.	surface a	and water table was	observe	ed at 1 inc	h below		ace water was observed
								51*

# WETLAND DETERMINATION DATA SHEET – Eastern Mountains and Piedmont Region See ERDC/EL TR-12-9; the proponent agency is CECW-CO-R

Project/Site: 6181 US Highway 15-501 Site	City/Coun	ty: Chatham County Sa	mpling Date: 01/10/2023
Applicant/Owner: Prestige Construction &			mpling Point: ws/w4/w5-U
Investigator(s): E. Radford, WPIT & C.Vinter (h	Kimley-Horn) Section, Town	nship, Range: N/A	
Landform (hillside, terrace, etc.): Hillslope		ave, convex, none): Convex	Slope (%): 5-10%
Subregion (LRR or MLRA): LRR P, MLRA 136		Long: -79.1198900	
Soil Map Unit Name: WeC - Wedowee sandy I		NWI classification:	<del>-</del>
Are climatic / hydrologic conditions on the site ty			Y
Are Vegetation, Soil, or Hydrolog	AND SECTION OF THE PROPERTY OF		ain in Remarks.)
Are Vegetation, Soil, or Hydrolog		re "Normal Circumstances" present?	Yes X No
SUMMARY OF FINDINGS – Attach s	TO THE STATE OF TH	f needed, explain any answers in Remarl pint locations, transects, impor	
Hydrophytic Vegetation Present? Ye Hydric Soil Present? Ye	Yes         No         X         Is the Sample within a Wet           Yes         No         X	led Area	o_X_
A representative upland data point for wetlands elevation than wetland W4.	s W3, W4, and W5 was taken on an adj	jacent hillslope approximately 30 feet fro	m and 4 feet higher in
HYDROLOGY			
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required:  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 (B7)  Water-Stained Leaves (B9)  Aquatic Fauna (B13)	d; check all that apply)  True Aquatic Plants (B14)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres on Living Roc  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils  Thin Muck Surface (C7)  Other (Explain in Remarks)	Dry-Season Water Tab Crayfish Burrows (C8) Saturation Visible on A Stunted or Stressed Pla Geomorphic Position (I Shallow Aquitard (D3) Microtopographic Relie	oncave Surface (B8)  oncave Surface (B8)  ole (C2)  erial Imagery (C9)  ants (D1)  O2)
Field Observations:		FAC-Neutral Test (D5)	
Surface Water Present? Yes No	lo X Depth (inches): loring well, aerial photos, previous inspec	Wetland Hydrology Present?	Yes No_X_
Remarks: No primary or secondary wetland hydrology indic	cators were observed.		

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size:30)	% Cover	Species?	Status	Dominance Test worksheet:
Quercus rubra	30	Yes	FACU	
2. Acer rubrum	10	Yes	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)
3. Liriodendron tulipifera	10	Yes	FACU	
4. Liquidambar styraciflua	10	Yes	FAC	Total Number of Dominant Species Across All Strata: 11 (B)
5. Prunus serotina	5	No	FACU	
6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 45.5% (A/B)
7				Prevalence Index worksheet: 45.5% (A/B)
	65 :	=Total Cover		
50% of total cover: 33		of total cover:	13	ODL
Sapling/Shrub Stratum (Plot size: 30 )		· · · · · · · · · · · · · · · · · · ·		
1. Quercus rubra	20	Yes	FACU	
2. Juniperus virginiana	15	Yes	FACU	FACU
3. Liquidambar styraciflua	10	Yes	FAC	LIBI
4. Ilex opaca	5	No	FACU	UPL species 0 x 5 = 0
5.	0	140		Column Totals: 150 (A) 555 (B)
6.				Prevalence Index = B/A = 3.70
7.				Hydrophytic Vegetation Indicators:
8.	7			1 - Rapid Test for Hydrophytic Vegetation
9.				2 - Dominance Test is >50%
	F0			3 - Prevalence Index is ≤3.0 <sup>1</sup>
50% of total cover: 25		Total Cover		4 - Morphological Adaptations (Provide supporting
II - 1 - 2	20% (	of total cover:	10	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 30 )  1. Polystichum acrostichoides	1			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
	15	Yes .	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be
Chasmanthium latifolium	5	Yes	FACU	present, unless disturbed or problematic.
				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 <i></i>				height.
7.				Sapling/Shrub - Woody plants, excluding vines, less
3				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.
_	20 =7	otal Cover		Woody Vine – All woody vines greater than 3.28 ft in
50% of total cover: 10	20% of	f total cover:	4	height.
Voody Vine Stratum (Plot size: 30 )		The second secon		
. Smilax rotundifolia	10	Yes	FAC	
Gelsemium sempervirens	5	Yes	FAC	
	-		1710	
	15 =T	otal Cover		Hydrophytic
50% of total cover: 8		total cover:	,	Vegetation
		Lotal Cover.	3	Present? Yes No X
emarks: (Include photo numbers here or on a separat	e sheet.)			

Profile Desc	cription: (Describe	to the dep	oth needed to doc	ument t	he indic	ator or c	onfirm the abse	ence of indi	icators.)		
Depth	Matrix			x Featur							
(inches)	Color (moist)		Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Re	marks	
0-4	10YR 5/3	100					Loamy/Claye	ey			
4-10	10YR 3/3	100					Loamy/Claye	<b>y</b>			
10-24	7.5YR 4/6	100					Loamy/Claye	у			
								4 (			
		-									
1Type: C=Ce	uncontration D-D-vi		D. I. I. I. I.					and the second			
Hydric Soil I	ncentration, D=Depl	etion, RM=	Reduced Matrix, N	/IS=Masl	ked Sand	Grains.			ore Lining,		
Histosol			Polyvalue Be	alow Sur	face (SR)	(MI DA			for Problem		
The state of the s	ipedon (A2)		Thin Dark Su						uck (A10) (N		)
Black His			Loamy Muck						Prairie Redox A 147, 148)	(A16)	
Y853 1.1	Sulfide (A4)		Loamy Gleye			LIVA 130	·)		nt Floodplair	Soile (E	10)
Stratified	Layers (A5)		Depleted Ma		()				A 136, 147)	1 3011S (F	19)
2 cm Mud	ck (A10) (LRR N)		Redox Dark		(F6)				rent Material	(E21)	
	Below Dark Surface	(A11)	Depleted Dar				-		ide MLRA 1		40\
	k Surface (A12)		Redox Depre						allow Dark S		
	ucky Mineral (S1)		Iron-Mangan			) (I RR N			Explain in Re	100	22)
The same of the sa	eyed Matrix (S4)		MLRA 136		(	, (=:::::	-	— Other (E	-xpiaiii iii ixe	iliaiks)	
Sandy Re	edox (S5)		Umbric Surfa	50	(MLRA	122 136	3	Indicators o	of hydrophytic	o voqotati.	on and
Stripped I	Matrix (S6)		Piedmont Flo		122	THE RESERVE TO SERVE	•		hydrology m		
Dark Surf			Red Parent N						listurbed or p		AND SOURCE CONTRACTOR
Restrictive La	ayer (if observed):		2 <del></del>								10.
Type:											
Depth (inc	ches):						Hydric Soil P	resent?	Yes	No	x
Remarks:											
No surface wa	iter, saturation, or wa	ater table v	ere observed withi	in 24 inc	hes of the	e soil su	rface.				
											1
											- 1

WETLAND DETERMINATION DATA SHEET – Eastern Mountains and Piedmont Region See ERDC/EL TR-12-9; the proponent agency is CECW-CO-R

Project/Site: 6181 US Highway 15-501	Site	City/County: Chath	am County	Sampling Date: 01/10/2023
Applicant/Owner: Prestige Construct	tion & Land Development, LL		State: NC	Sampling Point: w3/W4/W5-WE
Investigator(s): E. Radford, WPIT & C.Vi		Section, Township, Ran		Camping Fourt
Landform (hillside, terrace, etc.): Flood		ocal relief (concave, conv		Clara (0/) 0 50/
Subregion (LRR or MLRA): LRR P, MLR			The state of the s	Slope (%): 0-5%
Soil Map Unit Name: WeC - Wedowee s		Lon	g: <u>-79.1199713</u>	Datum: NAD83
		100 M	NWI classific	
Are climatic / hydrologic conditions on the	-	· ·		explain in Remarks.)
Are Vegetation, Soil, or Hy	6 2000 <del>2000 300</del> 2000		al Circumstances" presen	t? Yes X No
Are Vegetation, Soil, or Hy	drologynaturally prob	olematic? (If needed,	explain any answers in R	temarks.)
SUMMARY OF FINDINGS – Atta	ch site map showing	sampling point loca	ations, transects, in	nportant features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes X No Yes Yes Yes X No Yes	Is the Sampled Area within a Wetland?	Yes_X_	No
Remarks: Wetlands W3, W4, and W5 are wetlands W3, W4, and W5 was taken within wetlan	located within the floodplain nd W4.	of stream S1 and stream	S2. A representative we	tland data point for wetlands
HYDROLOGY			The state of the s	
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is rec	quired: abook all that anniv)			(minimum of two required)
X Surface Water (A1)	True Aquatic Plants	(B14)	Surface Soil Crac	
X High Water Table (A2)	Hydrogen Sulfide O		X Drainage Pattern	ted Concave Surface (B8)
X Saturation (A3)	(	res on Living Roots (C3)	Moss Trim Lines	MCC-MCS-MS-MS-MS-MS
Water Marks (B1)	Presence of Reduce		Dry-Season Wate	A second and a second a second and a second
Sediment Deposits (B2)		on in Tilled Soils (C6)	Crayfish Burrows	156
Drift Deposits (B3)	Thin Muck Surface (	(C7)		e on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Re	marks)	Stunted or Stress	27.1 5.47 35.7
Iron Deposits (B5)			X Geomorphic Posi	12 120
Inundation Visible on Aerial Imagery (	(B7)		Shallow Aquitard	(D3)
X Water-Stained Leaves (B9)			Microtopographic	Relief (D4)
Aquatic Fauna (B13)			FAC-Neutral Test	: (D5)
Field Observations:				
Surface Water Present? Yes X	No Depth (inch			
Water Table Present? Yes X Saturation Present? Yes X	No Depth (inch	NAME OF THE PARTY		
Saturation Present? Yes X (includes capillary fringe)	No Depth (inch	es): 3 Wetland	d Hydrology Present?	Yes X No
Describe Recorded Data (stream gauge, r	monitoring well aerial photos	nrovious inspections) if	oveileble.	
Passing Necotaca Bata (stream gauge, 1	monitoring well, aerial priotos	s, previous inspections), if	avallable:	
Remarks: Saturation was observed at 3 inches below observed at the data point; however, pond interface and overbank flooding of streams	ing was observed elsewhere	table was observed at 7 in within wetland W4. Wetla	ches below the soil surfa and W4 recieves hydrolog	ce. Surface water was not jic input from groundwater

VEGETATION (Four Strata) - Use scientific names of plants. Sampling Point: W3/W4/W5-WET Absolute Dominant Indicator Tree Stratum (Plot size: 30 % Cover Species? Status Dominance Test worksheet: 1. Liriodendron tulipifera 25 Yes **FACU** Number of Dominant Species Acer rubrum 20 Yes FAC That Are OBL, FACW, or FAC: 3. Liquidambar styraciflua 20 Yes FAC Total Number of Dominant Species Across All Strata: (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 75.0% (A/B) Prevalence Index worksheet: =Total Cover Total % Cover of: Multiply by: 50% of total cover: 20% of total cover: OBL species 13 x 1 =Sapling/Shrub Stratum (Plot size: 30 **FACW** species x2 =Lindera benzoin Yes FAC FAC species 195 x 3 = 585 Acer rubrum 15 No **FAC** FACU species 60 x4 =3. llex opaca 5 No **FACU** UPL species 0 x 5 = 4. Column Totals: 255 (B) 5. Prevalence Index = B/A = 6. Hydrophytic Vegetation Indicators: 7. 1 - Rapid Test for Hydrophytic Vegetation 8. X 2 - Dominance Test is >50% 9. 3 - Prevalence Index is ≤3.01 80 =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: Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) Microstegium vimineum FAC <sup>1</sup>Indicators of hydric soil and wetland hydrology must be 2. Polystichum acrostichoides **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. 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. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. =Total Cover 80 Woody Vine - All woody vines greater than 3.28 ft in 50% of total cover: height. 20% of total cover: Woody Vine Stratum (Plot size: 30 ) Gelsemium sempervirens 1. 15 Yes FAC 2. Smilax rotundifolia Yes FAC 3. 4. 5. Hydrophytic =Total Cover Vegetation 50% of total cover: 15 20% of total cover: Present? Yes X No Remarks: (Include photo numbers here or on a separate sheet.)

Danth	paroin (Dodolibe	to the de	pth needed to doc	ument t	he indic	ator or c	onfirm the absence	ce of indicators.)
Depth	Matrix		Redo	x Featur	es			
(inches)	Color (moist)		Color (moist)	_%_	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-6	10YR 4/2	_100_					Loamy/Clayey	
6-16	10YR 6/2	60	5YR 4/4	_40_	C	M	Loamy/Clayey	Prominent redox concentrations
16-24	2.5Y 6/2	60	5YR 4/6	_40_	C	<u>M</u>	Loamy/Clayey	Prominent redox concentrations
<sup>1</sup> Type: C=Co	ncentration, D=Deple	etion, RM	=Reduced Matrix, M	S=Mask	ed Sand	Grains.	<sup>2</sup> Locatic	on: PL=Pore Lining, M=Matrix.
Hydric Soil II Histosol (	ndicators:							licators for Problematic Hydric Soils <sup>3</sup> :
Black His Hydrogen Stratified 2 cm Muc Depleted Thick Dar Sandy Mu	Sulfide (A4) Layers (A5) k (A10) (LRR N) Below Dark Surface k k Surface (A12) cky Mineral (S1) eyed Matrix (S4) dox (S5) Matrix (S6)	(A11)	Polyvalue Be Thin Dark Su Loamy Mucky Loamy Gleye X Depleted Mat Redox Dark S Depleted Dari Redox Depres Iron-Mangane MLRA 136) Umbric Surfac Piedmont Floo Red Parent M	rface (S: / Minera d Matrix rix (F3) Surface ( k Surface) sesions (F ese Mass ce (F13) podplain S	9) (MLR./ I (F1) (M (F2) F6) ee (F7) F8) ses (F12) (MLRA -	147, 14 LRA 136 (LRR N (LRR N (122, 136)		2 cm Muck (A10) (MLRA 147) Coast Prairie Redox (A16) (MLRA 147, 148) Piedmont Floodplain Soils (F19) (MLRA 136, 147) Red Parent Material (F21) (outside MLRA 127, 147, 148) Very Shallow Dark Surface (F22) Other (Explain in Remarks) icators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Restrictive La	yer (if observed):			•			,,	arriess disturbed of problematic.
Type:	9.5 (0.0)							
Depth (inc	hes):						Hydric Soil Prese	ent? Yes No
Saturation was	observed at 3 inche: e data point; however	s below th	ne soil surface and v was observed else	water tab	ole was c	bserved and W4.	at 7 inches below t	he soil surface. Surface water was not



County of Chatham, NC

WP-23-41

On-site Riparian Buffer Review

Status: Active

**Applicant** 

Emma Radford emma.radford@kimley-horn.com 421 Fayetteville Street Suite 600 Raleigh, NC 27601 9196772215

**Project Information** 

**Review Type** 

Major Subdivision

If your project will result in a review of greater than 10 acres 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.

**Number of Features Found** 

7

**Date Field Work Was Completed** 01/10/2023

Has USACE on-site review been scheduled or completed

A Minor Subdivision is the creation of 5 or less new lots. If the original tract is over 10 acres and the subdivision results in the total of that tract becoming 02/09/2023

Date Created: Jan 23, 2023

**Primary Location** 

**O VACANT** North Carolina 00000

Owner:

PRESTIGE CONSTRUCTION & LAND DEVELOPMENT LLC 1804 STEADFAST RD HILLSBOROUGH, NC 27278

Before continuing please complete a phone or email conversation with Paula Phillips of the Planning Department. (919) 542-8276 paula.phillips@chathamcountync.gov

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.

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.

#### less than 10 acres then two lots have been created by default.

#### Parcel Information

Parcel Number (s)

976400411735

**Watershed District** 

WS-IV PA

Is the property within the Jordan Lake Watershed

Yes

**Property Owner Name** 

PRESTIGE CONSTRUCTION & LAND DEVELOPMENT LLC

Location of Tract (address if applicable)

6181 US 15 501 N

**Driving Directions from Pittsboro** 

From Raleigh, Take I-40 W and US-1 S/US-64 W to Mt Gilead Church Rd in Chatham County. Turn right onto Mt Gilead Church Rd, continue for 4.3 miles. Turn left onto US-15 S/US-501 S, continue for 1.2 miles. Turn right onto Lanes Legacy and destination will be on the left.

Subdivision Name (if applicable)

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

N/A, dirt pull off of US-15-501 to park and access Site.

#### Applicants Information

Are you the Landowner or an Agent

Agent

**Primary Phone Number** 

9196772215

**Mailing Address** 

421 Fayetteville Street, Suite 600

Zip Code

27601

**Full Name** 

Emma Radford, WPIT, CA

**Primary Email** 

emma.radford@kimley-horn.com

City/State

Raleigh, NC

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 e-mailed to me.

V

#### 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

Emma Radford, WPIT, CA

**New Field** 

01/23/2023

#### **Attachments**



03\_OwnerForm\_SIGNED\_15505\_Chatham\_BufferDet\_Form 4 (6).pdf Uploaded by Emma Radford on Jan 23, 2023 at 9:51 am

pdf)AGentForm\_15505\_Chatham\_BufferDet\_Form 3.pdf Uploaded by Emma Radford on Jan 19, 2023 at 10:59 am

pdf Fig1\_15501Site\_Vicinity\_MAP.pdf

Uploaded by Emma Radford on Jan 23, 2023 at 2:43 pm

pdf Fig3\_15501Site\_JDFeatures.pdf

Uploaded by Emma Radford on Jan 19, 2023 at 10:51 am

pdf 06\_15501\_DataForms.pdf

Uploaded by Emma Radford on Jan 19, 2023 at 10:51 am

pdf Fig4\_15501Site\_NRCS\_MAP.pdf

Uploaded by Emma Radford on Jan 19, 2023 at 10:51 am

pdf Fig2\_15501Site\_USGS\_MAP.pdf

Uploaded by Emma Radford on Jan 19, 2023 at 10:51 am

pdf 04\_15501\_SignedAgentAuth Form.pdf

Uploaded by Emma Radford on Jan 19, 2023 at 10:52 am

pdf SWITC\_Certification\_EAR.pdf

Uploaded by Emma Radford on Jan 23, 2023 at 9:55 am

#### History

Date	Activity
Jan 19, 2023 at 10:32 am	Emma Radford started a draft of Record WP-23-41
Jan 19, 2023 at 10:42 am	Emma Radford altered Record WP-23-41, changed ownerPhoneNo from "" to "9194275396"
Jan 19, 2023 at 10:51 am	Emma Radford added attachment Fig1_15501Site_Vicinity_MAP.pdf to Record WP-23-41
Jan 19, 2023 at 10:52 am	Emma Radford added attachment 04_15501_SignedAgentAuth Form.pdf to Record WP-23-41
Jan 23, 2023 at 9:55 am	Emma Radford added attachment SWITC_Certification_EAR.pdf to Record WP-23-41
Jan 23, 2023 at 2:43 pm	Emma Radford removed attachment Fig1_15501Site_Vicinity_MAP.pdf from Record WP-23-41
Jan 23, 2023 at 2:45 pm	Emma Radford submitted Record WP-23-41
Jan 23, 2023 at 2:45 pm	approval step Intake Approvalwas assigned to Drew Blake on Record WP-23-41
Jan 30, 2023 at 9:55 am	Drew Blake approved approval step Intake Approval on Record WP-23-41
Feb 1, 2023 at 12:32 pm	completed payment step Major Subdivision Riparian Buffer Review Fee on Record WP-23-41
Feb 1, 2023 at 12:32 pm	approval step Field Reviewwas assigned to Drew Blake on Record WP-23-41
Feb 1, 2023 at 12:32 pm	changed the deadline to Feb 15, 2023 on approval step Field Review on Record WP-23-41

#### **Timeline**

Label		Status	Activated	Completed	Assignee	Due Date
~	Intake Approval	Complete	Jan 23, 2023 at 2:45 pm	Jan 30, 2023 at 9:55 am	Drew Blake	-
0	Major Subdivision Riparian Buffer Review Fee	Paid	Jan 30, 2023 at 9:55 am	Feb 1, 2023 at 12:32 pm	-	=
<b>V</b>	Field Review	Active	Feb 1, 2023 at 12:32 pm	2	Drew Blake	02/15/2023
	Major Subdivision Riparian Buffer Confirmation Report	Inactive	20			2





# **CHATHAM COUNTY**

# AUTHORIZED AGENT FOR FORM

# PROPERTY LEGAL DESCRIPTION: LOT NO. 0002949 PARCEL ID (PIN) 976400411735 PARCEL SIZE 15.03 acres

STREET ADDRESS: 6181 US Highway 15-5	01 N
Pittsboro, NC 27312	
Please print:  Property Owner: Prestige Construction & Land	d Development, LLC; ATTN: Gilberto Lopez Ponce
Property Owner:	
The undersigned owner(s) of the above d	escribed property, do hereby authorize
Emma Radford, WPIT, CA	of Kimley-Horn
(Contractor / Agent)	, of Kimley-Horn  (Name of consulting firm if applicable)
to act on my/our behalf and take all action and acceptance of reviews, inspections of	ns, I/we could have taken if present, necessary for the processing, issuance r permits and any and all standard and special conditions attached to include the following ( <b>Check all that apply</b> ):
Check here for all of the below o	ptions.
Evaluation/inspection/permitting c	or expand onsite wastewater system(s) of a private drinking water well(s). to §304 of the Chatham Co. Watershed Protection Ordinance
Property Owner's Address (if different to 1804 Steadfast Rd, Hillsborough, NC 27278	han property above):
Telephone: (919) 427-5396	E-mail: lopezponcegilberto@yahoo.com
We hereby certify the above information su knowledge.	abmitted in this application is true and accurate to the best of our
	Enema Radford
Owner Authorized Signature	Agent Authorized Signature
Date:	_ Date: 01/18/2023



Date:\_

P.O. Box 548 Pittsboro, NC 27312

Website: www.chathamnc.org

# Authorization to Enter Property Form

PARCEL No. (AKPAR) 0002949		
I, (print name) Prestige Construction & La	nd Development, LLC, as owner of the prope	erty described above
or as a representative of the owner(s) do hereby co	onvey permission to Chatham County staff to e	enter the property at
their convenience to conduct a surface water identifi	cation (SWID) necessary to determine whether	or not water features
on my property are subject to the riparian buffer reg	ulations described in Section 304 of the Chathar	n County Watershed
Protection Ordinance. The SWID will be public	record and on file at the Planning and W	atershed Protection
Departments, and may be requested in the future for	review by interested parties.	
I understand that stream delineations for the prope	rty listed above will be made by County staff o	only once and that if
future subdivisions are proposed within this propert	y boundary, it will require a surface water identi	ification by a private
consultant at the property owner's expense.	Docusigned by: January	19, 2023
Gilberto Lopez Ponce	067894C3D5DD42A	
(Print Owner's Name)	(Signature of Owner) (Date)	
Emma Radford, WPIT, CA	Emma Radford	01/19/2023
(Print Authorized Agent Name)	(Signature of Authorized Agent) (Date)	