

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.chathamnc.org

February 1, 2021

Mr. Andrew Ross Conservancy Real Estate Group 4201 Taylor Hall Place Chapel Hill, Nc 27517

Project Name: <u>The Conservancy</u>

Location: Old US 1, Chatham County

Subject Feature(s): Thirty (30) stream segments, fifty-eight (58) wetlands, two (2)

<u>ponds</u>

Date of November 19, 2020

Determination:

Explanation: The site visit was completed on November 19, 2020 by Drew Blake with Chatham County Watershed Protection and Sean Clark of Sage Ecological Services, Inc. (Sage), on twenty-seven (27) properties which are located both inside and outside of the Jordan Lake watershed. Sage personnel completed a previous site visit which resulted in the identification of eight (8) potential ephemeral stream segments, fourteen (14) intermittent streams segments, eight (8) perennial stream segments, and fifty-eight (58) potential wetlands, and two (2) jurisdictional ponds. Sage submitted a request to Chatham County to complete a formal review to determine if those features would be subject to riparian buffers according to Section 304 of the Chatham County Watershed Protection Ordinance. All points of origin and stream type transitions were reviewed and agreed to in the field. All stream and wetland denotations referenced below are based on Figure 3 – Wetland Sketch Map dated January 2021, completed by Sage. Additionally, all features are identified in corresponding tables describing the feature and subject watershed.

James Lastinger of the US Army Corps of Engineers completed a previous review of the property and confirmed all findings.

Required Buffers

The required buffers described below are based on Figure 3 provided by Sage. All ephemeral stream segments will require a 30-ft buffer from the top of bank landward on both sides of the stream. All intermittent stream segments will require a 50-ft buffer from the top of bank landward on both sides of the stream. All perennial stream segments will require a 100-ft buffer from the top of bank landward on both sides of the stream.

Ponds P-S1 and P-H2 will require a 50-ft buffer surrounding the pond from the top of the pond dam or maximum discharge pipe elevation. These ponds were determined perennial water bodies in accordance with Section 109 of the Chatham County Watershed Protection Ordinance as they are fed by or have direct discharges into an intermittent or perennial stream. The remaining ponds are not subject to riparian buffers. Pond P-S3 is within a natural drainageway; however, it is not fed by nor directly discharges into an intermittent or perennial stream. Stream S-M5 is within the same drainageway; however, it loses its defined channel and becomes a wetland prior to entering the pond.



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All wetland boundaries flagged in the field by Sage were confirmed by the US Army Corps of Engineers (USACE). A 50-ft buffer will be required beginning at the flagged boundary and proceeding landward from all 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 for all impacts to surface water features within the Jordan Lake Watershed. Impacts to riparian buffers associated with surface water features outside of the Jordan Lake Watershed are subject to Section 304 (F), (G), (H) and (I). Section 304 (I) applies to projects that wish to undertake allowable activities under Section 304 (F)(5). 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, provided by Sage

Figure 2 – NRCS Soil Survey Map, provided by Sage Figure 3 – Wetland Sketch Map, provided by Sage

Buffer Spreadsheets, provided by Sage NCDWQ Stream Identification Forms

Wetland Determination Forms

Chatham County Riparian Buffer Application

Authorized Agent Form

Authorization to Enter Property Form

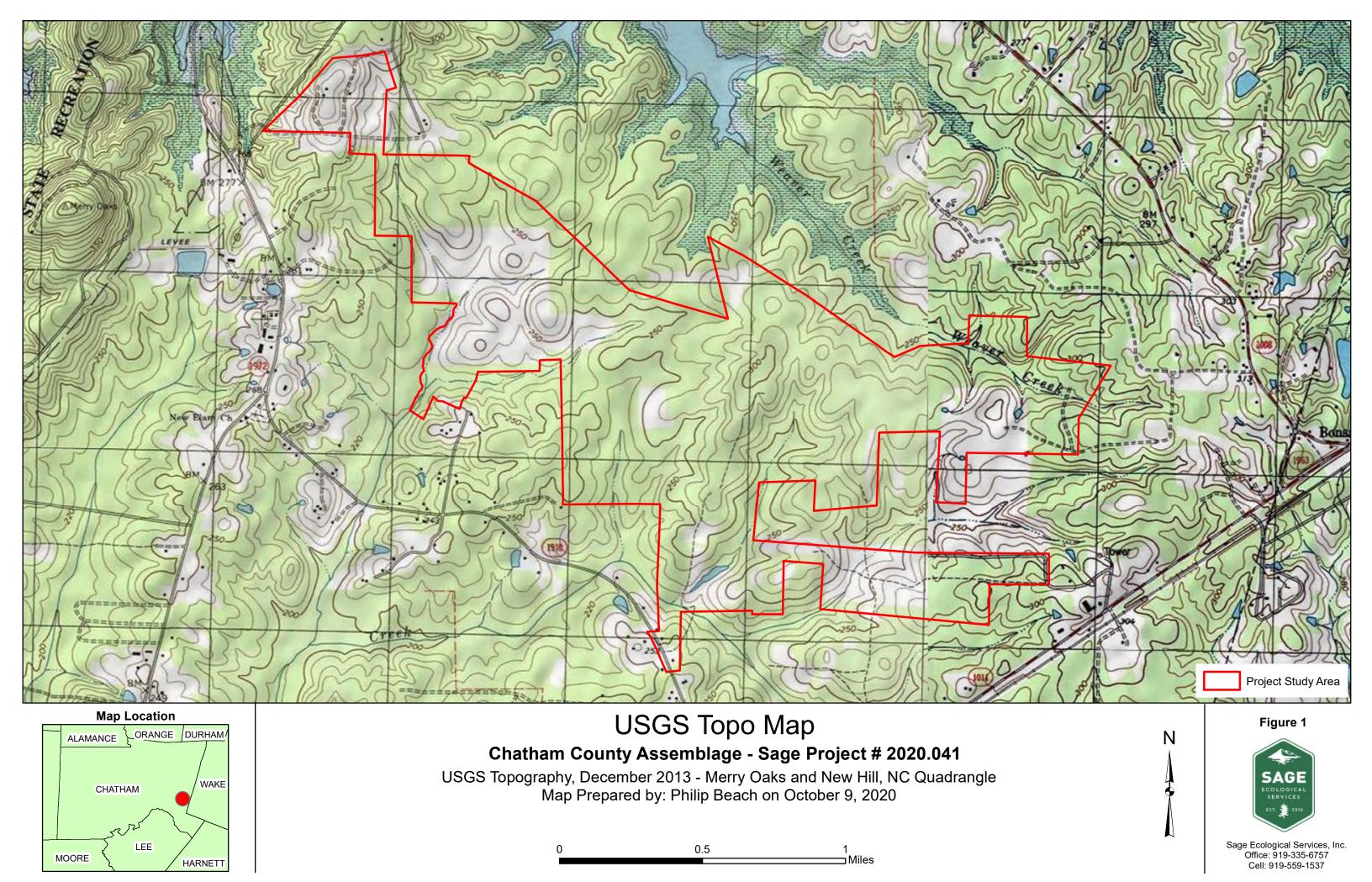


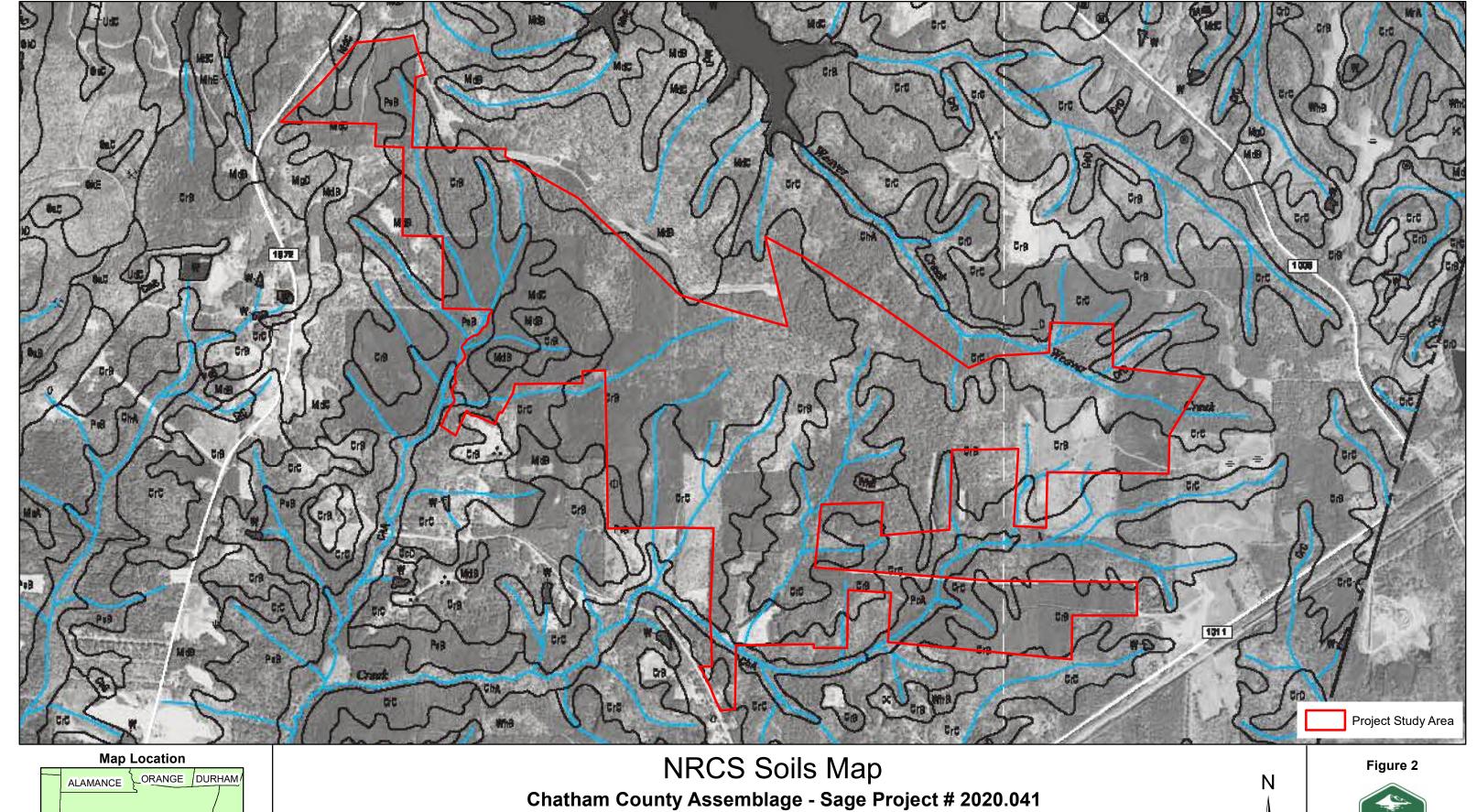
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cc: Sean Clark, Sage Ecological Services, Inc.
Kim Hamlin, Sage Ecological Services, Inc.
Rachael Thorn, Chatham County Watershed Protection Director
Kimberly Tyson, Planner II, Chatham County Subdivision Administrator
Angela Birchett, Planner II, Chatham County Zoning Administrator
Jason Sullivan, Chatham County Planning Director

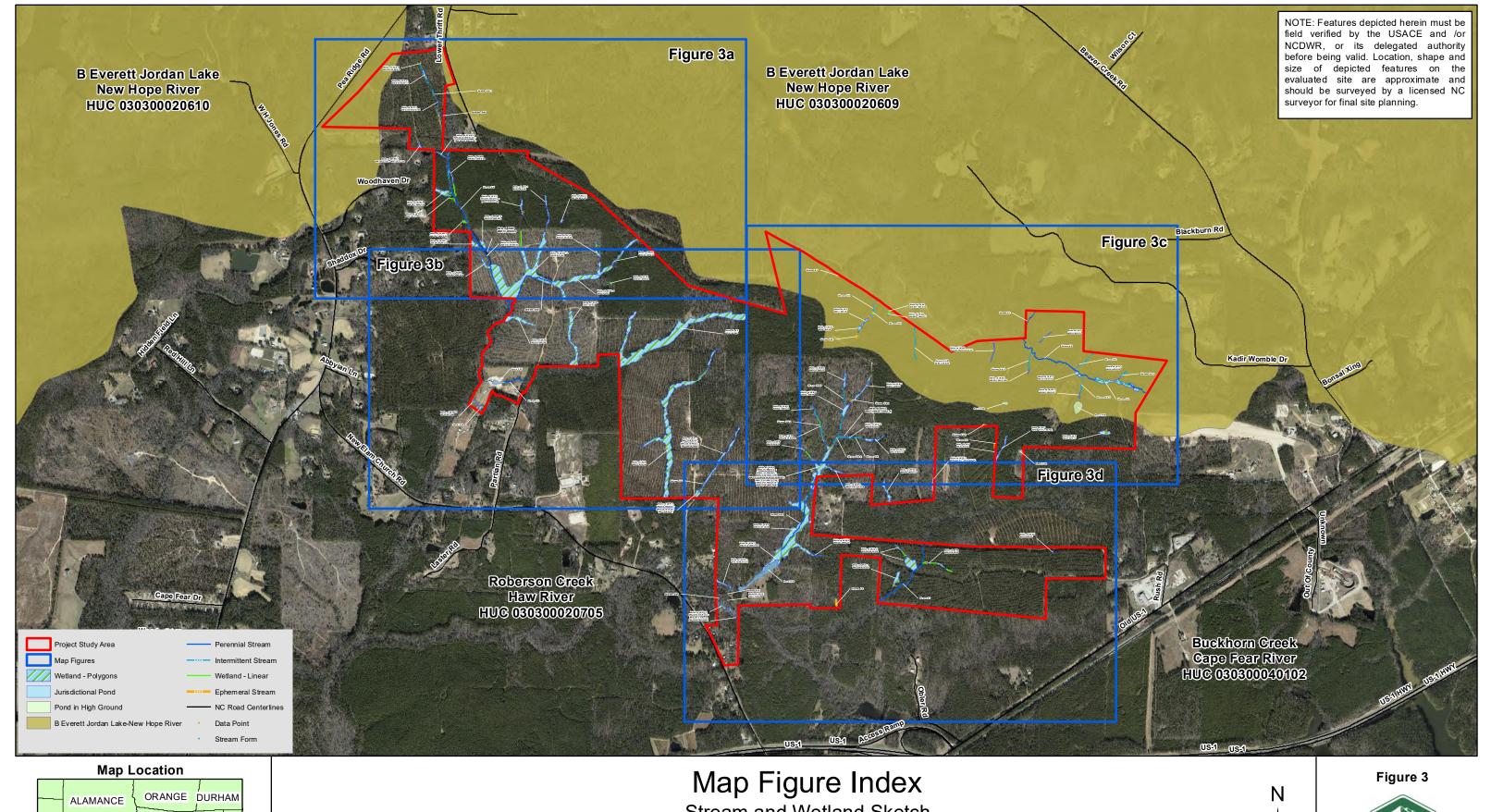


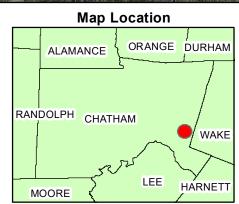


CHATHAM MOORE HARNETT

Chatham County, NC Soil Survey 1960 Soil Sheets 11 and 12; Map Prepared by: Philip Beach on October 9, 2020







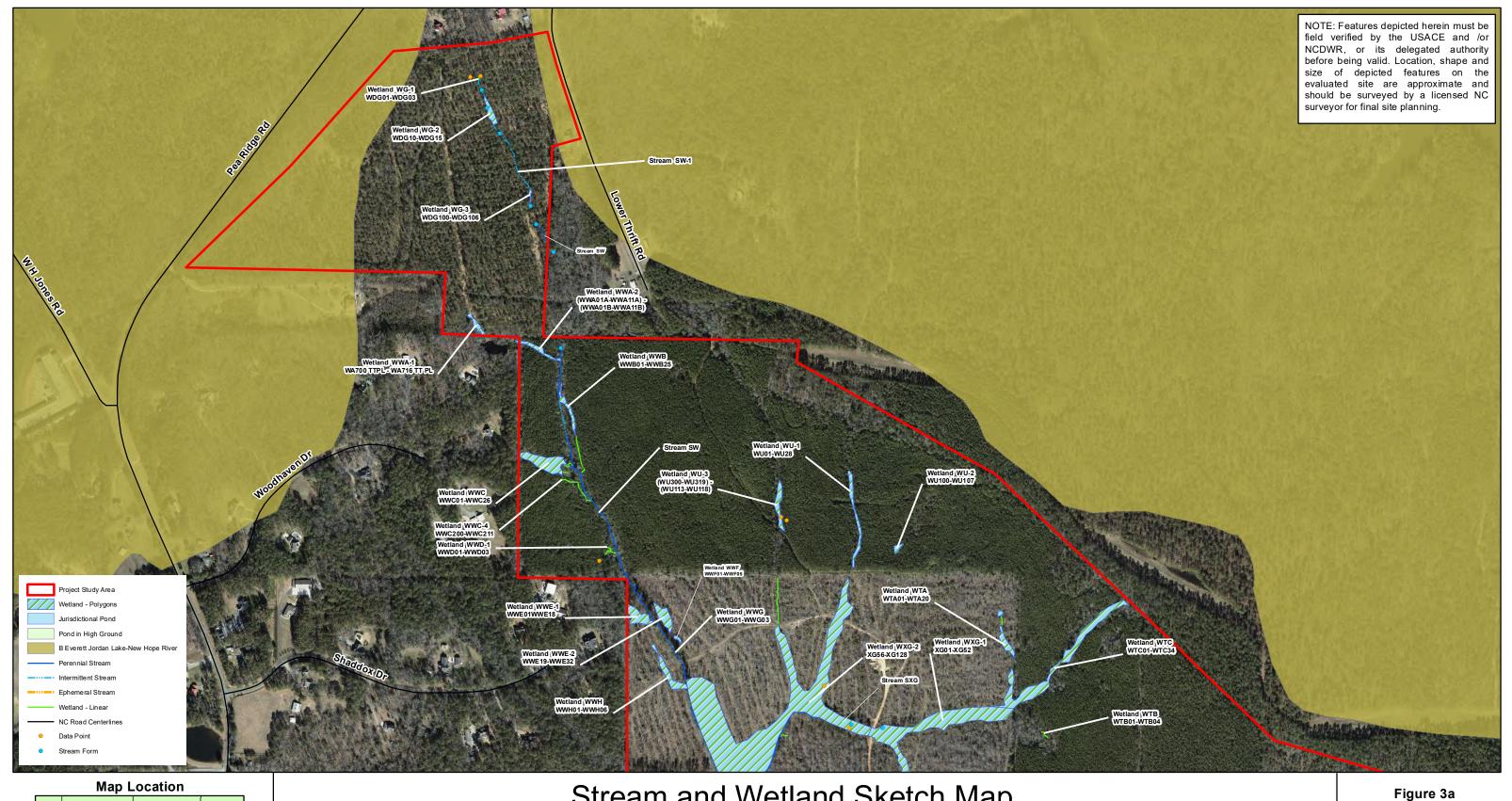
Stream and Wetland Sketch

Chatham County Assemblage - Sage Project # 2020.041

Map Prepared by: Philip Beach on October 9, 2020







ORANGE DURHAM **ALAMANCE** RANDOLPH CHATHAM WAKE LEE HÁRNETT MOORE

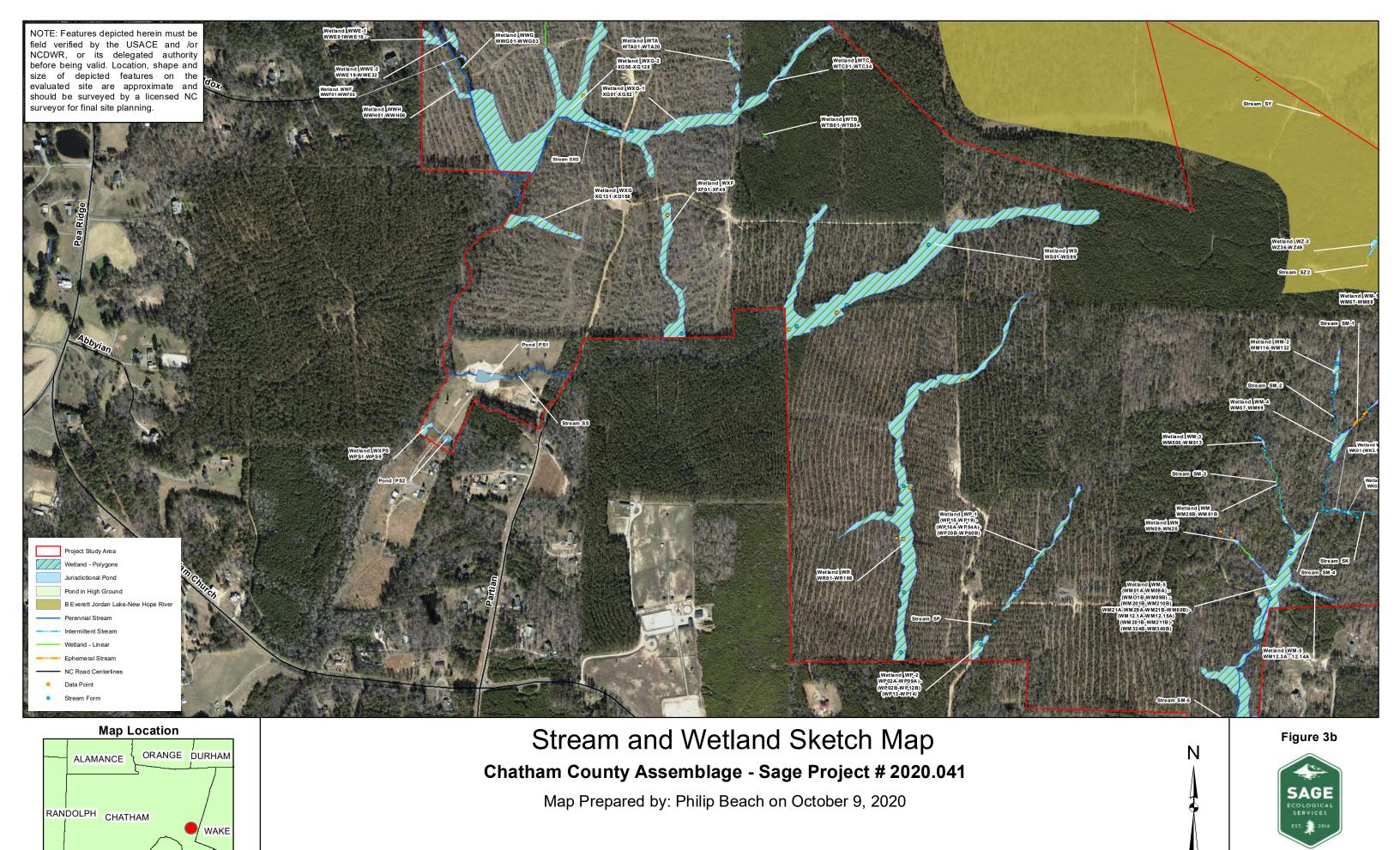
Stream and Wetland Sketch Map Chatham County Assemblage - Sage Project # 2020.041

Map Prepared by: Philip Beach on October 9, 2020

0.5 ☐ Miles







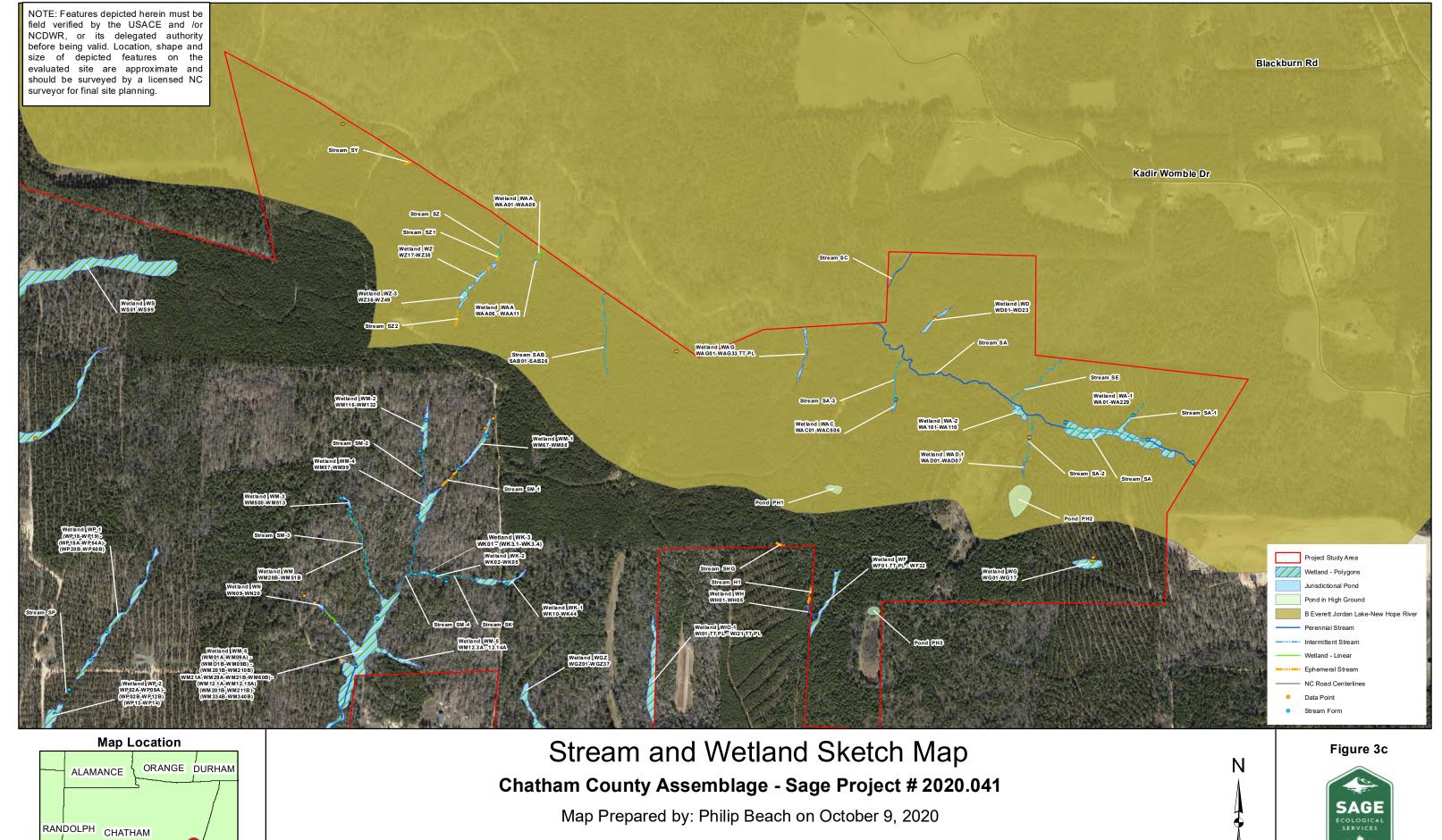
LEE

MOORE

HÁRNETT

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

Cell: 919-559-1537



0.25

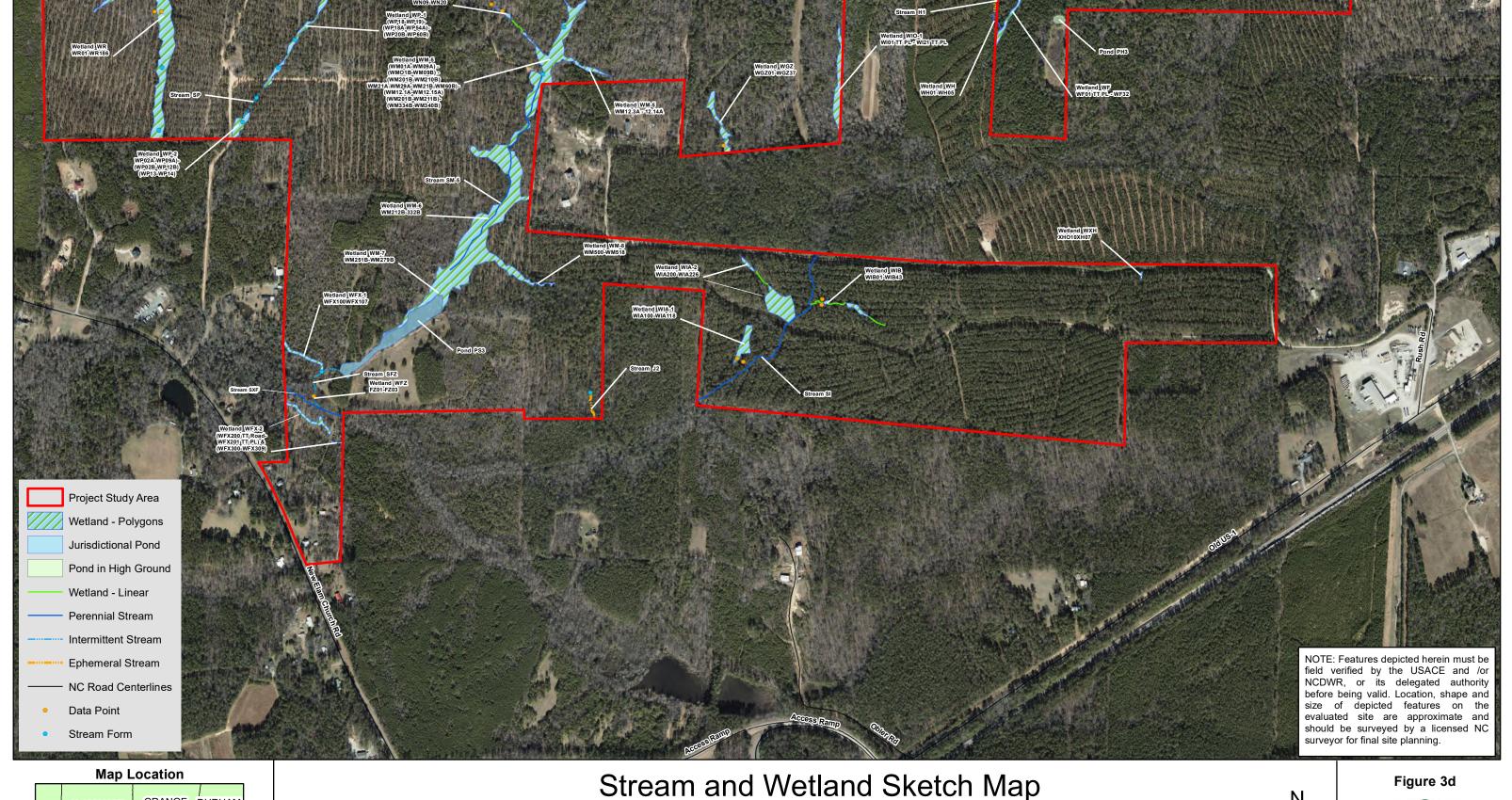
WAKE

HARNETT

LEE

MOORE





Map Location ALAMANCE ORANGE DURHAM RANDOLPH CHATHAM WAKE MOORE HARNETT

Stream and Wetland Sketch Map Chatham County Assemblage - Sage Project # 2020.041

Map Prepared by: Philip Beach on October 9, 2020

0 0.25 0.5 Miles



Streams

Stream Name	Latitude	Longitude	Approximate Length on Site (linear feet)	Flow Regime	Stream Form	Buffer Jurisdiction
H1	35.6603°N	78.9993°W	129	Ephemeral		County
SA	35.6627°N	78.9899°W	3,069	Intermittent / Perennial	SA01, SA03, SA02, & SA04	County + Jordan
SA-1	35.6639°N	78.9912°W	148	Intermittent	SA02	County + Jordan
SA-2	35.6628°N	78.9940°W	339	Intermittent		County + Jordan
SA-3	35.6640°N	78.9973°W	328	Intermittent	SAC	County + Jordan
SAB	35.6661°N	79.0044°W	667	Intermittent		County + Jordan
SC	35.6663°N	78.9974°W	316	Perennial		County + Jordan
SE	35.6640°N	78.9945°W	539	Intermittent	SE2-01	County + Jordan
SHG	35.6612°N	79.0002°W	78	Ephemeral		County
SY	35.6522°N	79.0067°W	2,131	Ephemeral		County + Jordan
SI	35.6687°N	79.0093°W	64	Perennial		County
SK	35.6605°N	79.0091°W	494	Intermittent	K1, K2, & K3	County
SM-1	35.6623°N	79.0083°W	169	Ephemeral	M1.2 & M1.3	County
SM-2	35.6630°N	79.0088°W	1,015	Intermittent	M2.1 & M2.2	County
SM-3	35.6605°N	79.0101°W	540	Intermittent	M3.1 & M3.2	County
SFZ	35.6605°N	79.0101°W	211	Intermittent		County
J2	35.6522°N	79.0160°W	97	Ephemeral	J2	County
SM-4 & SM-5	35.6579°N	79.0109°W	1,720	Ephemeral / Intermittent / Perennial	M1.4, M1.5, & M1.6	County
SP	35.6579°N	79.0178°W	216	Intermittent	P1, P2, P3, & P4	County
SS	35.6634°N	79.0283°W	767	Perennial		County
SW & SW-1	35.6710°N	79.0321°W	5,271	Ephemeral / Intermittent / Perennial	DG1, DG2, DG3, DG4, DG5, DG6, & W1	County
SZ	35.6658°N	79.0080°W	292	Ephemeral / Intermittent		County + Jordan
SXG	35.6682°N	79.0288°W	1,083	Perennial	XFG1 & XFG2	County
SXF	35.6520°N	79.0160°W	605	Perennial		County

Wetlands

Latitude	Longitude	Total Approximate Size on Site (acres)	Data Form	Buffer Jurisdiction
35.6633°N	78.9919°W	1.22	DP WA1	County + Jordan
35.6638°N	78.9942°W	0.149	DP WA1 & DP WA2	County + Jordan
35.6668°N	79.0060°W	0.024	DP WM1 & DP WM2	County + Jordan
35.6639°N	78.9973°W	0.028	DP WD1	County + Jordan
35.6627°N	78.9941°W	0.023	DP WAD1	County + Jordan
35.6650°N	78.9995°W	0.106	DP WM1 & DP WM2	County + Jordan
35.6656°N	78.9963°W	0.092	DP WD1	County + Jordan
35.6600°N	78.9990°W	0.281	DP WD1	County
35.6531°N	79.0163°W	0.179	DP FZ1 & DP FZ2	County
35.6513°N	79.0155°W	0.236	DP FZ1 & DP FZ2	County
35.6522°N	79.0161°W	0.001	DP FZ1 & DP FZ2	County
35.6608°N	78.9925°W	0.272	DP WG1 & DP WG2	County
35.6795°N	78.0351°W	0.001	DP WDG1 & DP WDG2	County
35.6790°N	79.0349°W	0.113	DP WWA1 & DP WWA2	County
35.6776°N	79.0341°W	0.018	DP WWA1 & DP WWA2	County
35.6578°N	79.0061°W	0.366	DP WIB1	County
35.6598°N	78.9993°W	0.014	DP WIB1	County
35.6533°N	79.0055°W	0.351	DP WIA1 & DP WIA2	County
35.6549°N	79.0054°W	0.877	DP WIB1 & DP WIB2	County
35.6542°N	79.0035°W	0.152	DP WIB1 & DP WIB2	County
35.6585°N	79.0032°W	0.649	DP WGZ1	County
35.6604°N	79.0072°W	0.245	DP WN1 & DP WN2	County
35.6605°N	79.0085°W	0.046	DP WN1 & DP WN2	County
35.6605°N	79.0087°W	0.025	DP WN1 & DP WN2	County
35.6631°N	79.0074°W	0.248	DP WM1 & DP WM2	County
35.6634°N	79.0087°W	0.216	DP WM1 & DP WM2	County
35.6620°N	79.0107°W	0.041	DP WN1 & DP WN2	County
35.6619°N	79.0087°W	0.308	DP WM2	County
35.6590°N	79.0103°W	2.033	DPWR2 & DPWR3	County
35.6558°N	79.0118°W	5.488	DP WA1 & DP WA2	County
35.6599°N	79.0114°W	0.052	DP WN1 & DP WN2	County
35.6597°N	79.0163°W	0.604	DP WR1	County
35.6577°N	79.0179°W	0.261	DPWR2 & DPWR3	County

35.6609°N	79.0195°W	5.493	Stream Forms: R1, R2, & R3 WL Data Forms: DP WR1, WR2, & WR3	County
35.6657°N	79.0197°W	7.791	Stream Forms: \$1, \$2, & \$3 WL Data Forms: DP WS	County
35.6704°N	79.0243°W	0.154	DP XG1	County
35.6683°N	79.0233°W	0.004	DP XG1	County
35.6696°N	79.0231°W	1.072	DP XG1	County
35.6721°N	79.0273°W	0.209	DP WU1 & DP WU2	County
35.6715°N	79.0264°W	0.039	DP WU1 & DP WU2	County
35.6723°N	79.0289°W	0.173	DP WU1 & DP WU2	County
35.6753°N	79.0352°W	0.08	DP WM1	County
35.6749°N	79.0339°W	0.108	DP WR1	County
35.6739°N	79.0333°W	0.139	DP WR1	County
35.6730°N	79.0338°W	0.451	DP WR1	County
35.6723°N	79.0328°W	0.018	DP WDG2	County
35.6714°N	79.0324°W	0.015	DP WWD1 & DP WDG2	County
35.6704°N	79.0318°W	0.233	DP WR1	County
35.6704°N	79.0313°W	0.204	DP WR1	County
35.6700°N	79.0310°W	0.021	DP WR1	County
35.6697°N	79.0310°W	0.003	DP WR1	County
35.6694°N	79.0312°W	0.226	DP WR1	County
35.6654°N	79.0257°W	1.493	Stream Forms: XF1 WL Data Forms: DP XF1	County
35.6665°N	79.0291°W	0.759	DP XG1 & DP XG2	County
35.6684°N	79.0256°W	8.608	DP XG3	County
35.6547°N	78.9958°W	0.016	DP WU1	County
35.6622°N	79.0319°W	0.158	DP WM2	County
35.6664°N	79.0075°W	0.23	DP WM1 & DP WM2	County + Jordan
35.6695°N	79.0108°W	N/A	DP 10A	County
35.6650°N	79.0026°W	N/A	DP 10B	County

Ponds

Pond Name	Latitude	Longitude	Approximate Size on Site (acres)	Buffer Jurisdiction
PS1	35.6633°N	79.0304°W	0.27	County
PS2	35.6620°N	79.0314°W	0.082	County
PS3	35.6538°N	79.0136°W	1.169	County
PH1	35.6623°N	78.9987°W	0.157	County + Jordan
PH2	35.6620°N	78.9942°W	0.674	County + Jordan
PH3	35.6598°N	78.9978°W	0.111	County

Date : Oct 6, 2020		Project/Site: The Conservancy - Moncure	Latitude: 35.6795
Evaluator: S. Clark		County: Chatham	Longitude:-79.0351
Total Points: Stream is at least intermittent if	11.5	Stream Determination: Ephemeral	Other: Merry Oaks/New Hill e.g. Quad Name:
≥19 or perennial if ≥30		I Epitomotai	

A. Geomorphology (Subtotal = 8)	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	0
5. Active/relic floodplain	0	1	2	3	2
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	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 = 1.5)	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	0.5
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	0

C. Biology (Subtotal = $\frac{2}{2}$)	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	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) 0-0.25		
	Bankfull Width (feet)	3	
	Water Depth (inches)	0	
	Channel Substrate	Silt, Sand	
	Velocity:	N/A	
	Clarity:	N/A	
Cleatala			
Sketch:			

Date : Oct 6, 2020		Project/Site: The Conservancy - Moncure	Latitude: 35.6792
Evaluator: S. Clark		County: Chatham	Longitude:-79.0351
Total Points: Stream is at least intermittent if	21.5	Stream Determination:	Other: Merry Oaks/NewHill e.g. Quad Name:
\geq 19 or perennial if \geq 30		IIILEITIIILEITI	

A. Geomorphology (Subtotal = $\frac{11}{2}$)	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	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	1
6. Depositional bars or benches	0	1	2	3	1
7. Recent alluvial deposits	0	1	2	3	0
8. Headcuts	0	1	2	3	2
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 = 6.5)	Absent	Weak	Moderate	Strong	SCORE
12. Presence of Baseflow	0	1	2	3	1
13. Iron oxidizing bacteria	0	1	2	3	0
14. Leaflitter	1.5	1	0.5	0	0.5
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 = $\frac{4}{}$)	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)	1-2
	Bankfull Width (feet)	2-4
	Water Depth (inches)	2
	Channel Substrate	Silt, Sand, Cobble
	Velocity:	Slow
	Clarity:	Slightly Turbid
Sketch:		
Sketch.		

Date : 10/06/2020		Project/Site: The Conservancy - Moncure	Latitude: 35.6787
Evaluator: S. Clark		County: Chatham	Longitude:-79.0349
Total Points: Stream is at least intermittent if	11.5	Stream Determination:	Other: Merry Oaks/NewHill e.g. Quad Name:
\geq 19 or perennial if \geq 30		Ephemeral	oigi quad riamo.

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	1
5. Active/relic floodplain	0	1	2	3	2
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	0
9. Grade controls	0	0.5	1	1.5	0.5
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 =5)	Absent	Weak	Moderate	Strong	SCORE
12. Presence of Baseflow	0	1	2	3	1
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	0.5
17. Soil-based evidence of high water table?	No :	= 0	Yes =	3	3

C. Biology (Subtotal = $\frac{1}{2}$)	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)	0-0.25
	Bankfull Width (feet)	2
Within a wetland.	Water Depth (inches)	0
	Channel Substrate	Silt, Sand
	Velocity:	N/A
	Clarity:	N/A
Sketch:		

Date: Oct 6, 2020 Project/Site: The Conservancy - Moncure		Latitude: 35.6776	
Evaluator: S. Clark		County: Chatham	Longitude:-79.0341
Total Points:	27.5	Stream Determination:	Other: Merry Oaks/NewHill
Stream is at least intermittent if ≥ 19 or perennial if ≥ 30	27.5	Intermittent	e.g. Quad Name:

A. Geomorphology (Subtotal = $\frac{14}{}$)	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	1
5. Active/relic floodplain	0	1	2	3	1
6. 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 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 =8)	Absent	Weak	Moderate	Strong	SCORE
12. Presence of Baseflow	0	1	2	3	1
13. Iron oxidizing bacteria	0	1	2	3	2
14. Leaflitter	1.5	1	0.5	0	1
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 = 5.5)	Absent	Weak	Moderate	Strong	SCORE
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			er=0	0

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

Notes:	Bank Height (feet)	1
	Bankfull Width (feet)	4
	Water Depth (inches)	2
	Channel Substrate	Silt, Sand, Cobble
	Velocity:	Slow
	Clarity:	Slightly Turbid
Sketch:		
Sketch.		

NC DWQ Stream Identification Form Version 4.11

DG5

Date : Oct 6, 2020		Project/Site: The Conservancy - Moncure	Latitude: 35.6771	
Evaluator: S. Clark		County: Chatham	Longitude:-79.0339	
Total Points: Stream is at least intermittent if	10.25	Stream Determination: Ephemeral	Other: Merry Oaks/NewHill e.g. Quad Name:	
≥19 or perennial if ≥30				

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	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	0
5. Active/relic floodplain	0	1	2	3	2
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	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 =2)	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	0.5
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	0.5
17. Soil-based evidence of high water table?	No	= 0	Yes =	3	0

C. Biology (Subtotal = $\frac{2.75}{}$)	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	FACV	V=0.75; C	DBL=1.5 Othe	er=0	0.75

^{*}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
Soil color is 10YR5/3	Water Depth (inches)	0
	Channel Substrate	Silt, Sand
	Velocity:	N/A
	Clarity:	N/A
Sketch:		

NC DWQ Stream Identification Form Version 4.11

DG6

INO DING Officially	01111 VC131011 1 .111			
Date: 10/06/2020		Project/Site: The Conservancy - Moncure	Latitude: 35.6767	
Evaluator: S. Clark		County: Chatham	Longitude:-79.0337	
Total Points: Stream is at least intermittent if >19 or perennial if >30	30.5	Stream Determination: Perennial	Other: Merry Oaks/NewHile e.g. Quad Name:	

A. Geomorphology (Subtotal = 13.5)	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	0
6. 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 controls	0	0.5	1	1.5	0.5
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 =8)	Absent	Weak	Moderate	Strong	SCORE
12. Presence of Baseflow	0	1	2	3	2
13. Iron oxidizing bacteria	0	1	2	3	1
14. Leaflitter	1.5	1	0.5	0	1
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 = $\frac{9}{}$)	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	1
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	1
24. Amphibians	0	0.5	1	1.5	1
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)	1-2
	Bankfull Width (feet)	4
	Water Depth (inches)	4
	Channel Substrate	Silt, Sand, Cobble
	Velocity:	Slow
	Clarity:	Clear
Cleataba		
Sketch:		

Date : Oct 6, 2020		Project/Site: The Conservancy - Moncure	Latitude: 35.6528	
Evaluator: K. Hamlin, P. Be	ach	County: Chatham	Longitude: -79.0108	
Total Points:	11.5		Other: Merry Oaks/NewHil	
Stream is at least intermittent if >19 or perennial if >30	11.5	Ephemeral	e.g. Quad Name:	

A. Geomorphology (Subtotal = $\frac{6.5}{}$)	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	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	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	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	0
13. Iron oxidizing bacteria	0	1	2	3	0
14. Leaflitter	1.5	1	0.5	0	0.5
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	1
17. Soil-based evidence of high water table?	No:	= 0	Yes =	3	0

C. Biology (Subtotal = $\frac{3}{2}$)	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	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)	3
	Bankfull Width (feet)	4
	Water Depth (inches)	0
	Channel Substrate	Silt, Sand
	Velocity:	N/A
	Clarity:	N/A
Cleatala		
Sketch:		

Date : Oct 6, 2020		Project/Site: The Conservancy - Moncure	Latitude: 35.6605	
Evaluator: S. Clark		County: Chatham	Longitude:-79.0091	
Total Points: Stream is at least intermittent if >19 or perennial if >30	20.5	Stream Determination:	Other: Merry Oaks/New Hill e.g. Quad Name:	

A. Geomorphology (Subtotal = 9.5)	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	0
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	2
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	1
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 = 5.5)	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	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 = 5.5)	Absent	Weak	Moderate	Strong	SCORE
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	0.5
24. Amphibians	0	0.5	1	1.5	0
25. Algae	0	0.5	1	1.5	0
26. Wetland plants in streambed	FACV	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)	1-2
This section of the drainage has been ditched in the past probably	Bankfull Width (feet)	2
for agricultural purposes.	Water Depth (inches)	0
	Channel Substrate	Silt, Sand
	Velocity:	N/A
	Clarity:	N/A
Sketch:		

Date : Oct 6, 2020		Project/Site: The Conservancy - Moncure	Latitude: 35.6606	
Evaluator: S. Clark		County: Chatham	Longitude:-79.0089	
Total Points:	20.5	Stream Determination:	Other: Merry Oaks/NewHil	
Stream is at least intermittent if ≥19 or perennial if ≥30	20.0	Intermittent	e.g. Quad Name:	

A. Geomorphology (Subtotal = 9)	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	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	1
6. Depositional bars or benches	0	1	2	3	1
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
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 = 5.5)	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	1
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	1
17. Soil-based evidence of high water table?	No	= 0	Yes =	3	3

C. Biology (Subtotal = $\frac{6}{}$)	Absent	Weak	Moderate	Strong	SCORE
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	0.5
24. Amphibians	0	0.5	1	1.5	0.5
25. Algae	0	0.5	1	1.5	0
26. Wetland plants in streambed	FACV	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)	1-2
	Bankfull Width (feet)	3
	Water Depth (inches)	0
	Channel Substrate	Silt, Sand
	Velocity:	N/A
	Clarity:	N/A
Sketch:		

Date : Oct 6, 2020		Project/Site: The Conservancy - Moncure	Latitude: 35.6604	
Evaluator: S. Clark	S. Clark County: Chatham		Longitude:-79.0074	
Total Points:	15	Stream Determination:	Other: Merry Oaks/NewHil	
Stream is at least intermittent if ≥ 19 or perennial if ≥ 30	15	Ephemeral	e.g. Quad Name:	

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	0
4. Particle size of stream substrate	0	1	2	3	0
5. Active/relic floodplain	0	1	2	3	2
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
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 =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	1
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 = 5)	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	1
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)	1-7
Drainage pattern in wetland	Water Depth (inches)	0
	Channel Substrate	Silt, Clay
	Velocity:	N/A
	Clarity:	N/A
Sketch:		
Choton:		

Date : Oct 6, 2020		Project/Site: The Conservancy - Moncure	Latitude: 35.6634	
Evaluator: S. Clark		County: Chatham	Longitude:-79.0072	
Total Points: Stream is at least intermittent if ≥19 or perennial if ≥30	16	Stream Determination: Ephemeral	Other: Merry Oaks/New Hill e.g. Quad Name:	

A. Geomorphology (Subtotal = 8)	Absent	Weak	Moderate	Strong	SCORE
1 ^a . Continuous bed and bank	0	1	2	3	1
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	1
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 =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	1
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 = $\frac{3}{2}$)	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	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)	0.5- 1.5
	Bankfull Width (feet)	3
	Water Depth (inches)	0
	Channel Substrate	Silt, Sand
	Velocity:	N/A
	Clarity:	N/A
Cleatala		
Sketch:		

Date : Oct 6, 2020		Project/Site: The Conservancy - Moncure	Latitude: 35.6624	
Evaluator: S. Clark		County: Chatham	Longitude:-79.0088	
Total Points: Stream is at least intermittent if ≥19 or perennial if ≥30	12.25	Stream Determination: Ephemeral	Other: Merry Oaks/NewHill e.g. Quad Name:	

A. Geomorphology (Subtotal = 3)	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	1
5. Active/relic floodplain	0	1	2	3	1
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	0.5
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 =5)	Absent	Weak	Moderate	Strong	SCORE
12. Presence of Baseflow		1	2	3	0
13. Iron oxidizing bacteria		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	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 = $\frac{4.25}{}$)	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	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	0.5
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			0.75	

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

Bank Height (feet)	0-0.25
Bankfull Width (feet)	2
Water Depth (inches)	0
Channel Substrate	Silt, Sand
Velocity:	N/A
Clarity:	N/A
	Bankfull Width (feet) Water Depth (inches) Channel Substrate Velocity:

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Date : Oct 6, 2020		Project/Site: The Conservancy - Moncure	Latitude: 35.6615	
Evaluator: S. Clark		County: Chatham	Longitude:-79.0088	
Total Points:	22		Other: Merry Oaks/NewHil	
Stream is at least intermittent if >19 or perennial if >30	22	Intermittent	e.g. Quad Name:	

A. Geomorphology (Subtotal = $\frac{12.5}{}$)	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	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	1
5. Active/relic floodplain	0	1	2	3	1
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	1
11. Second or greater order channel	No:	= 0	Yes =	= 3	3

 $^{^{\}rm a}$ artificial ditches are not rated; see discussions in manual.

B. Hydrology (Subtotal = 4.5)	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	1
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	3

C. Biology (Subtotal = 5 _)	Absent	Weak	Moderate	Strong	SCORE
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
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)	2
	Bankfull Width (feet)	3-5
	Water Depth (inches)	0-18
	Channel Substrate	Silt, Sand
	Velocity:	N/A
	Clarity:	N/A
Cleataba		
Sketch:		

Date : Oct 6, 2020		Project/Site: The Conservancy - Moncure	Latitude: 35.659
Evaluator: S. Clark		County: Chatham	Longitude:-79.0101
Total Points: Stream is at least intermittent if	18.5	Stream Determination: Ephemeral	Other: Merry Oaks/NewHill e.g. Quad Name:
\geq 19 or perennial if \geq 30		Ерпепнетаг	

A. Geomorphology (Subtotal = 10.5)	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	0
Particle size of stream substrate	0	1	2	3	1
5. Active/relic floodplain	0	1	2	3	3
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
10. Natural valley	0	0.5	1	1.5	1.5
11. Second or greater order channel	No :	= 0	Yes =	= 3	3

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

B. Hydrology (Subtotal =6)	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	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	1
17. Soil-based evidence of high water table?	No	= 0	Yes =	3	3

C. Biology (Subtotal = $\frac{2}{2}$)	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	2
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			er=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)	1-6
primary drainage pattern in broad wetland	Water Depth (inches)	0
	Channel Substrate	Silt, Sand
	Velocity:	N/A
	Clarity:	N/A
Sketch:		
Sketch.		

Date : Oct 6, 2020		Project/Site: The Conservancy - Moncure	Latitude: 35.6585
Evaluator: S. Clark		County: Chatham	Longitude: -79.0104
Total Points: Stream is at least intermittent if ≥19 or perennial if ≥30	34.5	Stream Determination: Perennial	Other: Merry Oaks/NewHill e.g. Quad Name:

A. Geomorphology (Subtotal = $\frac{21.5}{}$)	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
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	1
8. Headcuts	0	1	2	3	2
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	3

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

B. Hydrology (Subtotal =7)	Absent	Weak	Moderate	Strong	SCORE
12. Presence of Baseflow	0	1	2	3	1
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
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 = $\frac{6}{}$)	Absent	Weak	Moderate	Strong	SCORE
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	0.5
24. Amphibians	0	0.5	1	1.5	0.5
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)	2-3
drainage pattern in wetland	Bankfull Width (feet)	2-6
	Water Depth (inches)	2-24
	Channel Substrate	Silt, Sand
	Velocity:	Slow
	Clarity:	Clear
Sketch:		
Sketch.		

Date : Oct 6, 2020		Project/Site: The Conservancy - Moncure	Latitude: 35.6599
Evaluator: S. Clark		County: Chatham	Longitude:-79.0096
Total Points: Stream is at least intermittent if	12.25	Stream Determination: Ephemeral	Other: Merry Oaks/NewHill e.g. Quad Name:
\geq 19 or perennial if \geq 30		Ephemeral	o.g. quad ramo.

A. Geomorphology (Subtotal = 2)	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	0
5. Active/relic floodplain	0	1	2	3	1
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	0.5
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 = $\frac{4.5}{}$)	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	1
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	3

C. Biology (Subtotal = 5.75)	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	1
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			er=0	0.75

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

Notes:	Bank Height (feet)	0-0.25
drainage pattern within wetland	Bankfull Width (feet)	1-2
	Water Depth (inches)	0
	Channel Substrate	Silt, Sand
	Velocity:	N/A
	Clarity:	N/A
Sketch:		
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Date : Oct 6, 2020		Project/Site: The Conservancy - Moncure	Latitude: 35.6586	
Evaluator: S. Clark		County: Chatham	Longitude:-79.0103	
Total Points: Stream is at least intermittent if ≥ 19 or perennial if ≥ 30	19	Stream Determination: Intermittent	Other: Merry Oaks/NewHill e.g. Quad Name:	

A. Geomorphology (Subtotal = 9)	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	1
Particle size of stream substrate	0	1	2	3	1
5. Active/relic floodplain	0	1	2	3	1
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 =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	1
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 = 5)	Absent	Weak	Moderate	Strong	SCORE
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
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)	1-3
	Bankfull Width (feet)	2-3
	Water Depth (inches)	0
	Channel Substrate	Silt, Sand
	Velocity:	N/A
	Clarity:	N/A
Cleatala		
Sketch:		

Date : Oct 6, 2020		Project/Site: The Conservancy - Moncure	Latitude: 35.6617	
Evaluator: S. Clark		County: Chatham	Longitude:-79.0089	
Total Points:	7.75	Stream Determination:	Other: Merry Oaks/NewHill e.g. Quad Name:	
Stream is at least intermittent if ≥ 19 or perennial if ≥ 30		Ephemeral	e.g. Quad Name.	

A. Geomorphology (Subtotal = 2)	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	0
5. Active/relic floodplain	0	1	2	3	1
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	0.5
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 =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 = $\frac{2.75}{}$)	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	2
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				0.75

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

Notes:	Bank Height (feet)	0
	Bankfull Width (feet)	2
Point taken in wetland with no drainage patterns	Water Depth (inches)	0
	Channel Substrate	Silt, Sand
	Velocity:	N/A
	Clarity:	N/A
Sketch:		
Sketch.		

Date : Oct 6, 2020		Project/Site: The Conservancy - Moncure	Latitude: 35.6614	
Evaluator: S. Clark		County: Chatham	Longitude:-79.009	
Total Points: Stream is at least intermittent if ≥19 or perennial if ≥30	23	Stream Determination: Intermittent	Other: Merry Oaks/NewHill e.g. Quad Name:	

A. Geomorphology (Subtotal = 9)	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	1
4. Particle size of stream substrate	0	1	2	3	1
5. Active/relic floodplain	0	1	2	3	1
6. Depositional bars or benches	0	1	2	3	1
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	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 =8)	Absent	Weak	Moderate	Strong	SCORE
12. Presence of Baseflow	0	1	2	3	1
13. Iron oxidizing bacteria	0	1	2	3	2
14. Leaflitter	1.5	1	0.5	0	1
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	1
17. Soil-based evidence of high water table?	No	= 0	Yes =	3	3

C. Biology (Subtotal = $\frac{6}{}$)	Absent	Weak	Moderate	Strong	SCORE
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	0.5
24. Amphibians	0	0.5	1	1.5	0.5
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)	1-1.5
	Bankfull Width (feet)	1-3
	Water Depth (inches)	0-2
	Channel Substrate	Silt, Sand
	Velocity:	Slow
	Clarity:	Clear
Cleatabe		
Sketch:		

Date : Oct 6, 2020		Project/Site: The Conservancy - Moncure	Latitude: 35.6595		
Evaluator: S. Clark		County: Chatham	Longitude:-79.0164		
Total Points:	16.75	Stream Determination:	Other: Merry Oaks/NewHill		
Stream is at least intermittent if \geq 19 or perennial if \geq 30		Intermittent	e.g. Quad Name:		

A. Geomorphology (Subtotal = 6)	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	2
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
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 =6)	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	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	1
17. Soil-based evidence of high water table?	No	= 0	Yes =	3	3

C. Biology (Subtotal = $\frac{4.75}{}$)	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	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	1
26. Wetland plants in streambed	FACW=0.75; OBL=1.5 Other=0				0.75

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

Notes:	Bank Height (feet)	2	
Old farm ditch through wetland	Bankfull Width (feet)	2-3	
	Water Depth (inches)	0-6	
	Channel Substrate	Sand	
	Velocity:	N/A	
	Clarity:	N/A	
Sketch:			
Sketch.			

Date : Oct 6, 2020		Project/Site: The Conservancy - Moncure	Latitude: 35.6587	
Evaluator: S. Clark		County: Chatham	Longitude:-79.017	
Total Points:	12.75	Stream Determination:	Other: Merry Oaks/NewHill	
Stream is at least intermittent if >19 or perennial if >30	12.73	Ephemeral	e.g. Quad Name:	

A. Geomorphology (Subtotal =5)	Absent	Weak	Moderate	Strong	SCORE
1 ^a . Continuous bed and bank	0	1	2	3	1
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	2
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
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 =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	1.5
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 = $\frac{2.75}{}$)	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	2
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	0.75

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

Notes:	Bank Height (feet)	0-0.25
Drainage within a wetland	Bankfull Width (feet)	4
	Water Depth (inches)	0
	Channel Substrate	clay, sand
	Velocity:	N/A
	Clarity:	N/A
Cleatab		
Sketch:		

Date : Oct 6, 2020		Project/Site: The Conservancy - Moncure	Latitude: 35.6583	
Evaluator: S. Clark		County: Chatham	Longitude:-79.0174	
Total Points:	22.5	Stream Determination:	Other: Merry Oaks/NewHill	
Stream is at least intermittent if >19 or perennial if >30	22.5	Intermittent	e.g. Quad Name:	

A. Geomorphology (Subtotal = $\frac{12.5}{}$)	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	1
Particle size of stream substrate	0	1	2	3	1
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	1
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	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 =6)	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	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	1
17. Soil-based evidence of high water table?	No	= 0	Yes =	3	3

C. Biology (Subtotal = $\frac{4}{}$)	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	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)	1-2
Taken within an old farm ditch.	Bankfull Width (feet)	3-4
	Water Depth (inches)	0
	Channel Substrate	Silt, Sand
	Velocity:	N/A
	Clarity:	N/A
Sketch:		
OKCION.		

P4

A. Geomorphology (Subtotal = $\frac{4}{}$)	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	0
5. Active/relic floodplain	0	1	2	3	2
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
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 = 3.5)	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	3

C. Biology (Subtotal = $\frac{3.25}{}$)	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	2
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	0.5
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			0.75	

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

Notes:	Bank Height (feet)	0-0.25
within a wetland beyond the end of the old farm ditch.	Bankfull Width (feet)	5
	Water Depth (inches)	0
	Channel Substrate	Silt, clay
	Velocity:	N/A
	Clarity:	N/A
Sketch:		
OKCIOII.		

Date : Oct 6, 2020		Project/Site: The Conservancy - Moncure	Latitude: 35.6611	
Evaluator: S. Clark		County: Chatham	Longitude:-79.0198	
Total Points:	11	Stream Determination:	Other: Merry Oaks/NewHil	
Stream is at least intermittent if ≥19 or perennial if ≥30		Ephemeral	e.g. Quad Name:	

A. Geomorphology (Subtotal = $\frac{3.5}{}$)	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	0
5. Active/relic floodplain	0	1	2	3	2
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
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 =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	1
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 = $\frac{2.5}{}$)	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	2
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	0.5
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			er=0	0

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

Notes:	Bank Height (feet)	0-0.25
Primary drainage pattern through wetland	Bankfull Width (feet)	2
	Water Depth (inches)	0
	Channel Substrate	Silt, Sand
	Velocity:	N/A
	Clarity:	N/A
Sketch:		

Date : Oct 8, 2020		Project/Site: The Conservancy - Moncure	Latitude: 35.6588	
Evaluator: D. Gainey		County: Chatham	Longitude:-79.0198	
Total Points:	11.5	Stream Determination:	Other: Merry Oaks/NewHill	
Stream is at least intermittent if ≥ 19 or perennial if ≥ 30	11.5	Ephemeral	e.g. Quad Name:	

A. Geomorphology (Subtotal = $\frac{4.5}{1}$)	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	0
5. Active/relic floodplain	0	1	2	3	2
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		= 3	0	

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

B. Hydrology (Subtotal = 5.5)	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	1
16. Organic debris lines or piles	0	0.5	1	1.5	1.5
17. Soil-based evidence of high water table?	No	= 0	Yes =	3	3

C. Biology (Subtotal = $\frac{1.5}{1.5}$)	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	0.5
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
l	Water Depth (inches)	0
	Channel Substrate	Silt, Sand
	Velocity:	N/A
	Clarity:	N/A
Sketch:		
Sketch.		

Date : Oct 8, 2020		Project/Site: The Conservancy - Moncure	Latitude: 35.6576	
Evaluator: D. Gainey		County: Chatham	Longitude:-79.0198	
Total Points: Stream is at least intermittent if	8.5	Stream Determination:	Other: Merry Oaks/NewHill e.g. Quad Name:	
\geq 19 or perennial if \geq 30		Ephemeral	3	

A. Geomorphology (Subtotal = $\frac{1.5}{}$)	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	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	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 =6)	Absent	Weak	Moderate	Strong	SCORE
12. Presence of Baseflow	0	1	2	3	3
13. Iron oxidizing bacteria	0	1	2	3	2
14. Leaflitter	1.5	1	0.5	0	1
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 = $\frac{1}{2}$)	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	0.5
24. Amphibians	0	0.5	1	1.5	0.5
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	
	Channel Substrate	Silt, Sand	
	Velocity:	N/A	
	Clarity:	N/A	
Cleatabe			
Sketch:			

Date: Oct 8, 2020		Project/Site: The Conservancy - Moncure	Latitude: 35.6661	
Evaluator: D. Gainey		County: Chatham	Longitude:-79.0191	
Total Points: Stream is at least intermittent if	13.5	Stream Determination:	Other: Merry Oaks/NewHill e.g. Quad Name:	
>19 or perennial if >30		Ephemeral	o a	

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	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	1
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	2
10. Natural valley	0	0.5	1	1.5	2
11. Second or greater order channel	No :	= 0	Yes =	= 3	0

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

B. Hydrology (Subtotal =7)	Absent	Weak	Moderate	Strong	SCORE
12. Presence of Baseflow	0	1	2	3	1
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	1
17. Soil-based evidence of high water table?	No	= 0	Yes =	3	3

C. Biology (Subtotal = $\frac{1.5}{1.5}$)	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	0.5
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)	1
	Channel Substrate	Silt, Sand
	Velocity:	N/A
	Clarity:	N/A
Observation		
Sketch:		

Date: Oct 8, 2020		Project/Site: The Conservancy - Moncure	Latitude: 35.6649	
Evaluator: D. Gainey		County: Chatham	Longitude:-79.0211	
Total Points:	9.5	Stream Determination:	Other: Merry Oaks/NewHill	
Stream is at least intermittent if ≥ 19 or perennial if ≥ 30	3.5	Ephemeral	e.g. Quad Name:	

A. Geomorphology (Subtotal = 4)	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	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	2
10. Natural valley	0	0.5	1	1.5	2
11. Second or greater order channel	No	= 0	Yes =	= 3	0

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

B. Hydrology (Subtotal =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	0.5
16. Organic debris lines or piles	0	0.5	1	1.5	1.5
17. Soil-based evidence of high water table?	No	= 0	Yes =	3	3

C. Biology (Subtotal = 0.5)	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	0.5
24. Amphibians	0	0.5	1	1.5	0
25. Algae	0	0.5	1	1.5	0
26. Wetland plants in streambed	FACV	V=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)	0-0.5
	Bankfull Width (feet)	3
	Water Depth (inches)	1
	Channel Substrate	Silt, Sand
	Velocity:	N/A
	Clarity:	N/A
Cleataba		
Sketch:		

Date: Oct 8, 2020		Project/Site: The Conservancy - Moncure	Latitude: 35.6643	
Evaluator: D. Gainey		County: Chatham	Longitude:-79.0227	
Total Points:	15	Stream Determination:	Other: Merry Oaks/NewHil	
Stream is at least intermittent if ≥ 19 or perennial if ≥ 30	15	Ephemeral	e.g. Quad Name:	

A. Geomorphology (Subtotal = 6)	Absent	Weak	Moderate	Strong	SCORE
1 ^a . Continuous bed and bank	0	1	2	3	1
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	1
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	2
10. Natural valley	0	0.5	1	1.5	2
11. Second or greater order channel	No	= 0	Yes =	= 3	0

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

B. Hydrology (Subtotal = 8.5)	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	0.5
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	1.5
17. Soil-based evidence of high water table?	No	= 0	Yes =	3	3

C. Biology (Subtotal = 0.5)	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	0.5
24. Amphibians	0	0.5	1	1.5	0
25. Algae	0	0.5	1	1.5	0
26. Wetland plants in streambed	FACV	V=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)	0.5-1
	Bankfull Width (feet)	3
	Water Depth (inches)	2
	Channel Substrate	Silt, Sand
	Velocity:	Slow
	Clarity:	Clear
Ckataba		
Sketch:		

Date: Oct 8, 2020		Project/Site: The Conservancy - Moncure	Latitude: 35.6635
Evaluator: D. Gainey		County: Chatham	Longitude:-78.9931
Total Points:	39	Stream Determination:	Other: Merry Oaks/NewHill
Stream is at least intermittent if ≥ 19 or perennial if ≥ 30		Perennial	e.g. Quad Name:

A. Geomorphology (Subtotal = $\frac{23}{}$)	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	2
Particle size of stream substrate	0	1	2	3	3
5. Active/relic floodplain	0	1	2	3	3
6. Depositional bars or benches	0	1	2	3	1
7. Recent alluvial deposits	0	1	2	3	1
8. Headcuts	0	1	2	3	3
9. Grade controls	0	0.5	1	1.5	0.5
10. Natural valley	0	0.5	1	1.5	1.5
11. Second or greater order channel	No :	= 0	Yes =	= 3	3

^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 = 5.5)	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	0.5
24. Amphibians	0	0.5	1	1.5	1
25. Algae	0	0.5	1	1.5	0
26. Wetland plants in streambed	FAC	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)	2
	Bankfull Width (feet)	4
	Water Depth (inches)	4
	Channel Substrate	Silt, Sand, Cobble
	Velocity:	Slow
	Clarity:	Clear
Sketch:		
Sketch.		

,			
Date : Oct 8, 2020		Project/Site: The Conservancy - Moncure	Latitude: 35.6632
Evaluator: D. Gainey		County: Chatham	Longitude: -78.991
Total Points: Stream is at least intermittent if	22.5	Stream Determination:	Other: Merry Oaks/NewHile.g. Quad Name:
\geq 19 or perennial if \geq 30		Intermittent	org. Quad Harrior

A. Geomorphology (Subtotal = 11.5)	Absent	Weak	Moderate	Strong	SCORE
1 ^a . Continuous bed and bank	0	1	2	3	1
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
Particle size of stream substrate	0	1	2	3	0
5. Active/relic floodplain	0	1	2	3	3
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	0.5
9. Grade controls	0	0.5	1	1.5	0.5
10. Natural valley	0	0.5	1	1.5	1.5
11. Second or greater order channel	No :	= 0	Yes =	= 3	3

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

B. Hydrology (Subtotal = 10)	Absent	Weak	Moderate	Strong	SCORE
12. Presence of Baseflow	0	1	2	3	3
13. Iron oxidizing bacteria	0	1	2	3	2
14. Leaflitter	1.5	1	0.5	0	0
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 = $\underline{1}$)	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	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	1
25. Algae	0	0.5	1	1.5	0
26. Wetland plants in streambed	FACW=0.75; OBL=1.5 Other=0			er=0	0

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

Notes:	Bank Height (feet)	1
braided channel	Bankfull Width (feet)	3
	Water Depth (inches)	3
	Channel Substrate	Silt, Sand
	Velocity:	Slow
	Clarity:	Clear
Sketch:		
Sketch.		

Date : Oct 8, 2020		Project/Site: The Conservancy - Moncure	Latitude: 35.6628
Evaluator: D. Gainey		County: Chatham	Longitude:-78.9901
Total Points:	31	Stream Determination:	Other: Merry Oaks/NewHil
Stream is at least intermittent if ≥ 19 or perennial if ≥ 30	Ş:	Perennial	e.g. Quad Name:

A. Geomorphology (Subtotal = $\frac{21}{}$)	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	3
4. Particle size of stream substrate	0	1	2	3	3
5. Active/relic floodplain	0	1	2	3	3
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	1.5
10. Natural valley	0	0.5	1	1.5	1.5
11. Second or greater order channel	No :	= 0	Yes =	= 3	3

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

B. Hydrology (Subtotal =8)	Absent	Weak	Moderate	Strong	SCORE
12. Presence of Baseflow	0	1	2	3	2
13. Iron oxidizing bacteria	0	1	2	3	1
14. Leaflitter	1.5	1	0.5	0	1
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 = $\frac{2}{2}$)	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	0.5
24. Amphibians	0	0.5	1	1.5	0.5
25. Algae	0	0.5	1	1.5	0
26. Wetland plants in streambed	FACW=0.75; OBL=1.5 Other=0			er=0	0

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

Notes:	Bank Height (feet)	3
braided channel	Bankfull Width (feet)	6
	Water Depth (inches)	6
	Channel Substrate	Silt, Sand, Cobble
	Velocity:	Fast
	Clarity:	Slightly Turbid
Sketch:		

Date : Oct 8, 2020		Project/Site: The Conservancy - Moncure	Latitude: 35.6632
Evaluator: D. Gainey		County: Chatham	Longitude: -78.9911
Total Points:	45	Stream Determination:	Other: Merry Oaks/NewHill
Stream is at least intermittent if ≥ 19 or perennial if ≥ 30		Perennial	e.g. Quad Name:

A. Geomorphology (Subtotal = $\frac{19.5}{}$)	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	2
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	3
6. Depositional bars or benches	0	1	2	3	3
7. Recent alluvial deposits	0	1	2	3	0
8. Headcuts	0	1	2	3	1.5
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	3

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

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

C. Biology (Subtotal = 10.5)	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	3
21. Aquatic Mollusks	0	1	2	3	0
22. Fish	0	0.5	1	1.5	1
23. Crayfish	0	0.5	1	1.5	1
24. Amphibians	0	0.5	1	1.5	1.5
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)	3
braided channel	Bankfull Width (feet)	6
	Water Depth (inches)	6
	Channel Substrate	Silt, Sand, Cobble
	Velocity:	Fast
	Clarity:	Slightly Turbid
Sketch:		
Sketch.		

Date : Oct 8, 2020		Project/Site: The Conservancy - Moncure	Latitude: 35.664	
Evaluator: D. Gainey		County: Chatham	Longitude:-78.9973	
Total Points: Stream is at least intermittent if	19.5	Stream Determination:	Other: Merry Oaks/NewHill e.g. Quad Name:	
\geq 19 or perennial if \geq 30		Intermittent	oigi dada Hame.	

A. Geomorphology (Subtotal = 9)	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	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	2
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
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 = 6.5)	Absent	Weak	Moderate	Strong	SCORE
12. Presence of Baseflow	0	1	2	3	0.5
13. Iron oxidizing bacteria	0	1	2	3	3
14. Leaflitter	1.5	1	0.5	0	0.5
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	2

C. Biology (Subtotal = $\frac{4}{}$)	Absent	Weak	Moderate	Strong	SCORE
18. Fibrous roots in streambed	3	2	1	0	2
19. Rooted upland plants in streambed	3	2	1	0	1
20. Macrobenthos (note diversity and abundance)	0	1	2	3	1
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)	3
	Water Depth (inches)	4
	Channel Substrate	Silt, Sand, Cobble
	Velocity:	Slow
	Clarity:	Clear
Sketch:		
Sketch.		

Date : Oct 8, 2020		Project/Site: The Conservancy - Moncure	Latitude: 35.6633
Evaluator: D. Gainey		County: Chatham	Longitude:-78.9939
Total Points: Stream is at least intermittent if	24	Stream Determination:	Other: Merry Oaks/NewHill e.g. Quad Name:
≥19 or perennial if ≥30		Intermittent	

A. Geomorphology (Subtotal = 8.5)	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	1
3. In-Channel structure: ex. riffle-pool, step-pool, ripple-pool sequence	0	1	2	3	1
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	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	0.5
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 =9)	Absent	Weak	Moderate	Strong	SCORE
12. Presence of Baseflow	0	1	2	3	1
13. Iron oxidizing bacteria	0	1	2	3	3
14. Leaflitter	1.5	1	0.5	0	1
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 = $\frac{6.5}{}$)	Absent	Weak	Moderate	Strong	SCORE
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	1
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	0.5
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) 2		
	Bankfull Width (feet)	6	
	Water Depth (inches)	3	
	Channel Substrate	Silt, Sand, Cobble	
	Velocity:	Slow	
	Clarity:	Clear	
Sketch:			
Sketch.			

Date : Oct 8, 2020	Project/Site: The Conservancy - Moncure	Latitude: 35.6637
Evaluator: D. Gainey	County: Chatham	Longitude:-78.9914
Total Points: Stream is at least intermittent if ≥19 or perennial if ≥30	Stream Determination: Intermittent	Other: Merry Oaks/NewHill e.g. Quad Name:

A. Geomorphology (Subtotal = $\frac{7.5}{}$)	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	1
3. In-Channel structure: ex. riffle-pool, step-pool, ripple-pool sequence	0	1	2	3	2
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	1
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
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 = 8.5)	Absent	Weak	Moderate	Strong	SCORE
12. Presence of Baseflow	0	1	2	3	1
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	3
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 = 10)	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	1
22. Fish	0	0.5	1	1.5	1
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) 1		
	Bankfull Width (feet)	3	
	Water Depth (inches)	3	
	Channel Substrate	Silt, Sand	
	Velocity:	Slow	
	Clarity:	Clear	
Sketch:			
Sketch.			

Date : Oct 6, 2020		Project/Site: The Conservancy - Moncure	Latitude: 35.675
Evaluator: S. Clark		County: Chatham	Longitude:-79.0334
Total Points:	22.5	Stream Determination:	Other: Merry Oaks/NewHill
Stream is at least intermittent if ≥ 19 or perennial if ≥ 30	22.3	Intermittent	e.g. Quad Name:

A. Geomorphology (Subtotal = 9)	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
Particle size of stream substrate	0	1	2	3	1
5. Active/relic floodplain	0	1	2	3	3
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

 $^{^{\}rm a}$ artificial ditches are not rated; see discussions in manual.

B. Hydrology (Subtotal =8)	Absent	Weak	Moderate	Strong	SCORE
12. Presence of Baseflow	0	1	2	3	1
13. Iron oxidizing bacteria	0	1	2	3	2
14. Leaflitter	1.5	1	0.5	0	1
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 = 5.5)	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	0.5
25. Algae	0	0.5	1	1.5	1
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)	1
	Bankfull Width (feet)	4
	Water Depth (inches)	0-2
	Channel Substrate	Silt, Sand
	Velocity:	Slow
	Clarity:	Clear
Sketch:		
Sketch.		

Date : 10/06/2020		Project/Site: The Conservancy - Moncure	Latitude: 35.6642
Evaluator: S. Clark		County: Chatham	Longitude:-79.0254
Total Points: Stream is at least intermittent if	9.25	Stream Determination: Ephemeral	Other: Merry Oaks/NewHill e.g. Quad Name:
≥19 or perennial if ≥30			

A. Geomorphology (Subtotal = $\frac{3.5}{}$)	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
Particle size of stream substrate	0	1	2	3	0
5. Active/relic floodplain	0	1	2	3	2
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
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 =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 = 2.75)	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	2
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	FACV	V=0.75; C	DBL=1.5 Othe	er=0	0.75

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

Notes:	Bank Height (feet)	0
Within wetland WXF.	Bankfull Width (feet)	N/A
	Water Depth (inches)	0
	Channel Substrate	Clay
	Velocity:	N/A
	Clarity:	N/A
Cleataba		
Sketch:		

Date : Oct 8, 2020		Project/Site: The Conservancy - Moncure	Latitude: 35.6684
Evaluator: D. Gainey		County: Chatham	Longitude: -79.0267
Total Points: Stream is at least intermittent if	17	Stream Determination:	Other: Merry Oaks/NewHile.g. Quad Name:
\geq 19 or perennial if \geq 30		Ephemeral	o.g. quad Hamor

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
Particle size of stream substrate	0	1	2	3	0
5. Active/relic floodplain	0	1	2	3	3
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
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 =5)	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	3

C. Biology (Subtotal = 6.5)	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	3
20. Macrobenthos (note diversity and abundance)	0	1	2	3	1
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	1
25. Algae	0	0.5	1	1.5	0
26. Wetland plants in streambed	FACV	V=0.75; C	DBL=1.5 Othe	er=0	1.5

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

Notes:	Bank Height (feet)	0.5
no bed or bank - impounded wetland area	Bankfull Width (feet)	2
	Water Depth (inches)	2
	Channel Substrate	Silt, Sand
	Velocity:	Slow
	Clarity:	Turbid
Sketch:		
Sketch.		

Date : Oct 8, 2020		Project/Site: The Conservancy - Moncure	Latitude: 35.6685
Evaluator: D. Gainey		County: Chatham	Longitude:-79.0274
Total Points:	38.5	Stream Determination:	Other: Merry Oaks/NewHill
Stream is at least intermittent if ≥ 19 or perennial if ≥ 30		Perennial	e.g. Quad Name:

A. Geomorphology (Subtotal = $\frac{22.5}{}$)	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	2
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	0
5. Active/relic floodplain	0	1	2	3	3
6. Depositional bars or benches	0	1	2	3	3
7. Recent alluvial deposits	0	1	2	3	3
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	1.5
11. Second or greater order channel	No:	= 0	Yes =	= 3	3

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

B. Hydrology (Subtotal = 11.5)	Absent	Weak	Moderate	Strong	SCORE
12. Presence of Baseflow	0	1	2	3	3
13. Iron oxidizing bacteria	0	1	2	3	2
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 = $\frac{4.5}{1.5}$)	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	0.5
24. Amphibians	0	0.5	1	1.5	0
25. Algae	0	0.5	1	1.5	0
26. Wetland plants in streambed	FAC	V=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)	1
no bed or bank - impounded wetland area	Bankfull Width (feet)	4
	Water Depth (inches)	4
	Channel Substrate	Silt, Sand, Cobble
	Velocity:	Slow
	Clarity:	Slightly Turbid
Sketch:		

WETLAND DETERMINATION DATA SHEET – Eastern Mountains and Piedmont Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: The Conservancy / Moncure A	ssemblage	City/County: Chatham		Sampling Date:	08/14/2020
Applicant/Owner: The Conservancy Rea	l Estate Group, LLC	<u> </u>	State: N	NC Sampling Point:	DP 10A (UP)
Investigator(s): S. Clark	•	Section, Township, Range	: Cape Fear Towns		
Landform (hillside, terrace, etc.): hillside		cal relief (concave, convex,		Slope (%):	0.5
Subregion (LRR or MLRA): LRR P, MLRA 1			-79.0108	Datum:	NAD83
, <u> </u>					INADOS
Soil Map Unit Name: <u>CrB - Creedmoor-Gree</u>	·	·	NWI class	-	
Are climatic / hydrologic conditions on the site				no, explain in Remark	
Are Vegetation, Soil, or Hydro			Circumstances" pres	sent? Yes X	. No
Are Vegetation, Soil, or Hydro	ologynaturally probl	ematic? (If needed, ex	plain any answers i	n Remarks.)	
SUMMARY OF FINDINGS – Attach	site map showing s	sampling point locati	ons, transects	, important featu	res, etc.
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled Area			
Hydric Soil Present?	Yes No X	within a Wetland?	Yes	No X	
Wetland Hydrology Present?	Yes X No			<u> </u>	
Remarks: Per Antecedent Precipitation Tool - Wetter Total Data point is +/- 500 feet northwest of Streat					
HYDROLOGY Westland Hydrology Indicators:			Secondary Indiae	store (minimum of two	required
Wetland Hydrology Indicators: Primary Indicators (minimum of one is requi	red: check all that annly)		Surface Soil	ators (minimum of two I	<u>requirea)</u>
Surface Water (A1)	True Aquatic Plants	(B14)		getated Concave Surfa	ce (B8)
High Water Table (A2)	Hydrogen Sulfide Oc		X Drainage Pat		00 (20)
Saturation (A3)		es on Living Roots (C3)	Moss Trim Li		
Water Marks (B1)	Presence of Reduce	d Iron (C4)	Dry-Season \	Water Table (C2)	
Sediment Deposits (B2)	Recent Iron Reduction	on in Tilled Soils (C6)	Crayfish Burr	ows (C8)	
Drift Deposits (B3)	Thin Muck Surface (C7)	Saturation Vi	sible on Aerial Imagery	y (C9)
Algal Mat or Crust (B4)	Other (Explain in Re	marks)		tressed Plants (D1)	
Iron Deposits (B5)			Geomorphic		
Inundation Visible on Aerial Imagery (B7	7)		Shallow Aqui	` ,	
Water-Stained Leaves (B9)				phic Relief (D4)	
Aquatic Fauna (B13)		T	X FAC-Neutral	Test (D5)	
Field Observations:	No. V. Danile Carle				
Surface Water Present? Yes Water Table Present? Yes	No X Depth (inch				
Saturation Present? Yes	No X Depth (inch		Hydrology Presen	nt? Yes X	No
(includes capillary fringe)	No X Bopui (mon		Tryarology i resem	100 <u>X</u>	
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos	, previous inspections), if a	vailable:		
(, ,			
Remarks:					

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

Tran Stratum (Plat size: 20)	Absolute	Dominant	Indicator	Deminance Test weeksheets
Tree Stratum (Plot size: 30')	% Cover 90	Species? Yes	Status FAC	Dominance Test worksheet:
Pinus taeda 2.	90	165	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)
3.				
4.				Total Number of Dominant Species Across All Strata: 4 (B)
5.				``
6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7				Prevalence Index worksheet:
<i>'</i>	90 :	=Total Cover		Total % Cover of: Multiply by:
50% of total cover:		of total cover:	18	OBL species 0 x 1 = 0
Sapling/Shrub Stratum (Plot size: 30') 2070	or total oover.		FACW species 20 x 2 = 40
Liquidambar styraciflua	40	Yes	FAC	FAC species 160 x 3 = 480
Vaccinium corymbosum	20	Yes	FACW	FACU species 10 x 4 = 40
3. Acer rubrum	10	No	FAC	UPL species 0 x 5 = 0
4. Nyssa sylvatica	10	No	FAC	Column Totals: 190 (A) 560 (B)
5. Ilex opaca	10	No	FACU	Prevalence Index = $B/A = 2.95$
6.			17.00	Hydrophytic Vegetation Indicators:
7.				1 - Rapid Test for Hydrophytic Vegetation
8.				X 2 - Dominance Test is >50%
9.				3 - Prevalence Index is ≤3.0 ¹
·	90 :	=Total Cover		4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover:		of total cover:	18	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5')		0. 1010. 0070		Problematic Hydrophytic Vegetation ¹ (Explain)
1				
2.				¹ Indicators of hydric soil and wetland hydrology must 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.
···		=Total Cover		Woody Vine – All woody vines greater than 3.28 ft in
50% of total cover:		of total cover:		height.
Woody Vine Stratum (Plot size: 15')		or total oover.		
1. Vitis rotundifolia	10	Yes	FAC	
2.				
3.				
4.				
5.				
	10 :	=Total Cover		Hydrophytic
50% of total cover:		of total cover:	2	Vegetation Present? Yes X No
30 % of total cover.	3 2070	or total cover.		Tresent: res_A
Remarks: (Include photo numbers here or on a sep	earate sheet.)			

Sampling Point: DP 10A (UP)

SOIL Sampling Point: DP 10A (UP)

	ription: (Describe	to the dep				itor or co	onfirm the abser	nce of indi	cators.)	
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Featur %	res Type ¹	Loc ²	Texture		Pon	narks
0-5	10YR 3/6	100	Color (moist)	70	туре	LOC	Loamy/Clayey		Ken	liaiks
5-9										
<u> </u>	10YR 4/4	100					Loamy/Clayey	<u></u>		
9-12	10YR 5/4	96	5YR 5/6	4	C	PL_	Loamy/Clayey	Pro	ominent redo	x concentrations
¹Type: C=Co	ncentration, D=Depl	etion, RM	=Reduced Matrix, N		ked Sand	Grains.	² Loca	ation: PL=F	Pore Lining, I	M=Matrix.
Hydric Soil I	ndicators:						I	ndicators	for Problem	atic Hydric Soils ³
Histosol	(A1)		Polyvalue Be	low Su	rface (S8)	(MLRA	147, 148)	2 cm M	uck (A10) (M	ILRA 147)
Histic Ep	ipedon (A2)		Thin Dark Su	urface (S	59) (MLR	A 147, 1	48)	Coast F	rairie Redox	(A16)
Black His	stic (A3)		Loamy Muck	y Miner	al (F1) (N	ILRA 136	-	(MLR	A 147, 148)	
Hydroger	n Sulfide (A4)		Loamy Gleye	ed Matri	x (F2)		_	Piedmo	nt Floodplair	Soils (F19)
Stratified	Layers (A5)		Depleted Ma	trix (F3))			(MLR	A 136, 147)	
2 cm Mu	ck (A10) (LRR N)		Redox Dark				_	Red Pa	rent Material	(F21)
	Below Dark Surface	e (A11)	Depleted Da		, ,			-		27, 147, 148)
	rk Surface (A12)		Redox Depre		. ,		_			Surface (F22)
	ucky Mineral (S1)		Iron-Mangan		sses (F12	2) (LRR N	N, _	Other (I	Explain in Re	marks)
	leyed Matrix (S4)		MLRA 136	•	S) (841 B.4	100 101	3			
	edox (S5)		Umbric Surfa				-			c vegetation and
	Matrix (S6)		Piedmont Flo				-			nust be present,
Dark Sur	ayer (if observed):		Red Parent N	viateriai	(FZ1) (IVI	LKA 121	, 147, 140)	uniess	disturbed or p	problematic.
Type:	ayer (ii observed).									
Depth (in	ches):						Hydric Soil P	resent?	Yes	No X
Remarks:							1,			
Remarks.										

WETLAND DETERMINATION DATA SHEET – Eastern Mountains and Piedmont Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: The Conservancy / Moncure A	Assemblage	City/County: Chath	am	Sar	mpling Date:	10/06/2020
Applicant/Owner: The Conservancy Rea	al Estate Group, LLC		State:	NC Sar	mpling Point:	DP 10B (UP)
Investigator(s): S. Clark		Section, Township, Rar	nge: Cape Fear To			,
Landform (hillside, terrace, etc.): hillside		cal relief (concave, conv			Slope (%):	0.5
				<u></u>	-	NAD83
Subregion (LRR or MLRA): LRR P, MLRA 1			ng: <u>-79.0026</u>		_ Datum:	NADOS
Soil Map Unit Name: <u>CrB - Creedmoor-Gre</u>		•	•	assification:		
Are climatic / hydrologic conditions on the sit	e typical for this time of year	ar? Yes	No X	(If no, expla	in in Remark	s.)
Are Vegetation, Soil, or Hydro	ologysignificantly di	sturbed? Are "Norm	al Circumstances" إ	oresent?	Yes X	No
Are Vegetation, Soil, or Hydro	ologynaturally probl	ematic? (If needed	, explain any answe	rs in Remark	ks.)	
SUMMARY OF FINDINGS – Attach	ı site map showing s	sampling point loc	ations, transec	ts, impor	tant featu	res, etc.
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled Area				
Hydric Soil Present?	Yes No X	within a Wetland?		No	X	
Wetland Hydrology Present?	Yes No X					
Remarks:						
Per Antecedent Precipitation Tool - Wetter	Than Normal conditions					
HYDROLOGY						
Wetland Hydrology Indicators:			Secondary Inc	licators (mini	mum of two	required)
Primary Indicators (minimum of one is requi	red; check all that apply)		Surface S	oil Cracks (B	36)	
Surface Water (A1)	True Aquatic Plants	(B14)	Sparsely `	Vegetated Co	oncave Surfa	ice (B8)
High Water Table (A2)	Hydrogen Sulfide Oc		X Drainage			
Saturation (A3)		res on Living Roots (C3)		n Lines (B16)		
Water Marks (B1)	Presence of Reduce			on Water Tab		
Sediment Deposits (B2)		on in Tilled Soils (C6)		Burrows (C8)		
Drift Deposits (B3)	Thin Muck Surface (•		Visible on A		y (C9)
Algal Mat or Crust (B4)	Other (Explain in Re	marks)		r Stressed Pl		
Iron Deposits (B5)	7\			hic Position (D2)	
Inundation Visible on Aerial Imagery (B	7)			quitard (D3)	of (D4)	
Water-Stained Leaves (B9) Aquatic Fauna (B13)				graphic Relie tral Test (D5)		
		ı	FAC-Neur	rai Test (D5)	1	
Field Observations:	No. V. Double Cook	\				
Surface Water Present? Yes	No X Depth (inch					
Water Table Present? Yes	No X Depth (inch		nd Urdralam, Dra		Vaa	No. V
Saturation Present? Yes (includes capillary fringe)	No X Depth (inch	es) vvetia	nd Hydrology Pre	sent :	Yes	No X
Describe Recorded Data (stream gauge, mo	onitoring well perial photos	nrevious inspections)	if available:			
Beschibe Recorded Bata (Stream gauge, mi	Sintoling Won, donar priotoc	s, previous mapeonoms,	ii availabie.			
Remarks:						

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

<u>Tree Stratum</u> (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
1. Pinus taeda	80	Yes	FAC	Number of Dominant Species		
2.				That Are OBL, FACW, or FAC:	3	(A)
3.				Total Number of Dominant		_ ` ′
4.				Species Across All Strata:	3	(B)
5.				·		_` ′
6.				Percent of Dominant Species That Are OBL, FACW, or FAC:	100.0%	(A/B)
7.				Prevalence Index worksheet:		(* * -)
	80	=Total Cover		Total % Cover of:	Multiply by:	
50% of total cover:		of total cover:	16	OBL species 0 x 1		
Sapling/Shrub Stratum (Plot size: 30')			FACW species 0 x 2		_
Liquidambar styraciflua	30	Yes	FAC	FAC species 130 x 3		
Acer rubrum	15	Yes	FAC	FACU species 5 x 4		
3. Nyssa sylvatica	5	No	FAC	UPL species 0 x 5		_
4. Ilex opaca	5	No	FACU	Column Totals: 135 (A)	410	— (B)
5.			1 700	Prevalence Index = B/A =		(B)
6.				Hydrophytic Vegetation Indicato		
7.				1 - Rapid Test for Hydrophytic	vegetation	
8.				X 2 - Dominance Test is >50%		
9				3 - Prevalence Index is ≤3.0 ¹	1 (D : 1	
500/ /		=Total Cover	4.4	4 - Morphological Adaptations data in Remarks or on a sep		
	28 20%	of total cover:	11			
Herb Stratum (Plot size: 5')				Problematic Hydrophytic Vege	tation (Expla	un)
1				¹ Indicators of hydric soil and wetlar		must be
2.				present, unless disturbed or proble		
3.				Definitions of Four Vegetation S	trata:	
4.				Tree – Woody plants, excluding vir		
5.				more in diameter at breast height (height.	DBH), regard	lless of
6.		-		neight.		
7				Sapling/Shrub – Woody plants, ex		
8				than 3 in. DBH and greater than or (1 m) tall.	equal to 3.28	3 ft
9				(1 m) tan.		
10 11.				Herb – All herbaceous (non-woody of size, and woody plants less than		ardless
		=Total Cover		Woody Vine – All woody vines gre		0 ft in
FOW of total cover:		of total cover:		height.	ater triair 5.2	0 11 111
50% of total cover: <u>Woody Vine Stratum</u> (Plot size: 15')		or total cover.		- 3		
4						
1.						
2.						
3.						
4						
5				Hydrophytic		
		=Total Cover		Vegetation		
50% of total cover:	20%	of total cover:		Present? Yes X	No	
Remarks: (Include photo numbers here or on a sepa	arate sheet.)					

Sampling Point: DP 10B (UP)

SOIL Sampling Point: DP 10B (UP)

Profile Desci	ription: (Describe t	o the dep	th needed to doc	ument t	he indica	tor or co	onfirm the abs	sence of indic	ators.)	
Depth	Matrix		Redo	x Featui	res					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Rem	narks
0-5	10YR 3/6	100					Loamy/Clay	yey		
5-12	10YR 5/6	100					Loamy/Clay	/ev		
	10111070						Loamyrolay			
¹ Type: C=Co	ncentration, D=Depl	etion, RM=	=Reduced Matrix, N	л ИS=Mas	ked San	Grains.	² Lo	ocation: PL=P	ore Lining, N	л=Matrix.
Hydric Soil I	ndicators:							Indicators for	or Problema	atic Hydric Soils ³ :
Histosol (A1)		Polyvalue Be	elow Su	rface (S8	(MLRA	147, 148)	2 cm Mu	ıck (A10) (M	LRA 147)
Histic Epi	pedon (A2)		Thin Dark S	urface (S	59) (MLR	A 147, 1	48)		rairie Redox	(A16)
Black His	` '		Loamy Mucl	-		ILRA 136	6)	(MLR	A 147, 148)	
	Sulfide (A4)		Loamy Gley		. ,					Soils (F19)
	Layers (A5)		Depleted Ma	, ,				•	A 136, 147)	
	ck (A10) (LRR N)	(* 4 4)	Redox Dark						ent Material	
	Below Dark Surface	(A11)	Depleted Da					•		27, 147, 148)
	k Surface (A12) ucky Mineral (S1)		Redox Depre			0\			xplain in Re	Surface (F22)
	eyed Matrix (S4)		MLRA 13		35 6 5 (1 12	2) (L KK I	۷,	Other (L	xpiaiii iii Ne	marks)
Sandy Re			Umbric Surfa		3) (MI RA	122, 136	3)	³ Indicators o	f hydronhytid	c vegetation and
	Matrix (S6)		Piedmont Fl				-			nust be present,
Dark Surf			Red Parent				-		isturbed or p	
	ayer (if observed):				• /•		,		<u> </u>	
Type:										
Depth (in	ches):						Hydric Soil	I Present?	Yes	No X
Remarks:										

WETLAND DETERMINATION DATA SHEET – Eastern Mountains and Piedmont Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: The Conservancy / Moncure A	Assemblage	City/County: Chatham		_Sampling Date:	10/06/2020
Applicant/Owner: The Conservancy Rea	al Estate Group, LLC		State: NC	Sampling Point:	DP FZ1
Investigator(s): D. Gainey		Section, Township, Range:	Cape Fear Township	_	
Landform (hillside, terrace, etc.): terrace	Lo	cal relief (concave, convex,		Slope (%):	0.5
Subregion (LRR or MLRA): LRR P, MLRA 1			79.0160		NAD83
Soil Map Unit Name: CrC—Creedmoor-Gre			NWI classifica		147 1200
					- \
Are climatic / hydrologic conditions on the sit	•			explain in Remark	
Are Vegetation, Soil, or Hydro			Circumstances" present?		. No
Are Vegetation, Soil, or Hydro	ologynaturally probl	ematic? (If needed, ex	plain any answers in Re	emarks.)	
SUMMARY OF FINDINGS – Attach	site map showing	sampling point location	ons, transects, im	portant featu	res, 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	William a Wollana	<u>x</u>		
Remarks:					
Per Antecedent Precipitation Tool - Normal	conditions				
•					
HYDROLOGY					
Wetland Hydrology Indicators:			Secondary Indicators	(minimum of two	required)
Primary Indicators (minimum of one is requ	red; check all that apply)		Surface Soil Crac		
Surface Water (A1)	True Aquatic Plants		Sparsely Vegetate		ce (B8)
High Water Table (A2)	Hydrogen Sulfide Od		X Drainage Patterns		
Saturation (A3)		res on Living Roots (C3)	Moss Trim Lines		
Water Marks (B1)	Presence of Reduce		Dry-Season Wate		
Sediment Deposits (B2)		on in Tilled Soils (C6)	Crayfish Burrows		(00)
Drift Deposits (B3)	Thin Muck Surface (Saturation Visible		/ (C9)
Algal Mat or Crust (B4)	Other (Explain in Re	marks)	Stunted or Stress		
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B	7)		Geomorphic Posi Shallow Aquitard		
Water-Stained Leaves (B9)	')		Microtopographic		
Aquatic Fauna (B13)			FAC-Neutral Test	` '	
Field Observations:				(- 5)	
Surface Water Present? Yes	No X Depth (inch	es):			
Water Table Present? Yes	No X Depth (inch				
Saturation Present? Yes	No X Depth (inch		Hydrology Present?	Yes X	No
(includes capillary fringe)					
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos	s, previous inspections), if a	vailable:		
Remarks:					

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: DP FZ1 Absolute Dominant Indicator Tree Stratum (Plot size: % Cover Species? Status **Dominance Test worksheet:** 1. Liquidambar styraciflua 80 Yes FAC **Number of Dominant Species** 2. Acer rubrum 10 No FAC That Are OBL, FACW, or FAC: (A) 3. Liriodendron tulipifera 10 No **FACU Total Number of Dominant** 4. Species Across All Strata: 3 (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 66.7% (A/B) Prevalence Index worksheet: 100 =Total Cover Total % Cover of: 50% of total cover: 50 20% of total cover: **OBL** species x 1 = **FACW** species Sapling/Shrub Stratum (Plot size: 30' x 2 =**FAC** species 170 510 1. x 3 =**FACU** species 15 2. x 4 =3. UPL species 0 x 5 = 0 Column Totals: 185 4. (A) 570 (B) 5. Prevalence Index = B/A = 6. **Hydrophytic Vegetation Indicators:** 1 - Rapid Test for Hydrophytic Vegetation 7. 8. X 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.01 4 - Morphological Adaptations¹ (Provide supporting =Total Cover data in Remarks or on a separate sheet) 50% of total cover: 20% of total cover: Herb Stratum (Plot size: Problematic Hydrophytic Vegetation¹ (Explain) Microstegium vimineum FAC ¹Indicators 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 more in diameter at breast height (DBH), regardless of 5. height. 6. 7. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft 8. (1 m) tall. 10. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. 80 =Total Cover Woody Vine - All woody vines greater than 3.28 ft in 50% of total cover: 20% of total cover: Woody Vine Stratum (Plot size: 15') 1. Lonicera japonica 2. 3. 4. Hydrophytic 5 =Total Cover Vegetation 50% of total cover: 20% of total cover: Present? Yes X No Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: DP FZ1

	ription: (Describe	to the de				ator or co	onfirm the abse	nce of indi	icators.)	
Depth (inches)	Matrix	0/		x Featu		Loc ²	Toyturo		Domarko	
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹		Texture		Remarks	
0-12	10YR 4/2	95	10YR 6/6	5	<u>C</u>	PL	Loamy/Claye	<u>/</u>		
		· <u></u>								
					· ——					
		· <u></u>								
		-								
					. —					
	oncentration, D=Depl	etion, RM	=Reduced Matrix, N	/IS=Mas	sked San	d Grains.			Pore Lining, M=Matrix.	
Hydric Soil			D		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				for Problematic Hydric Soils ³ :	
Histosol			Polyvalue Be				_		Muck (A10) (MLRA 147)	
	pipedon (A2)		Thin Dark Su				_		Prairie Redox (A16)	
Black Hi	n Sulfide (A4)		Loamy Muck	•	, , ,	ILKA 130	9)	-	RA 147, 148) ont Floodplain Soils (F19)	
	I Layers (A5)		X Depleted Ma				-		RA 136, 147)	
	ck (A10) (LRR N)		Redox Dark					-	arent Material (F21)	
	Below Dark Surface	e (A11)	Depleted Da				-		side MLRA 127, 147, 148)	
	ark Surface (A12)	(,	Redox Depre					-	hallow Dark Surface (F22)	
	lucky Mineral (S1)		Iron-Mangar			2) (LRR I	- N,		Explain in Remarks)	
	leyed Matrix (S4)		MLRA 136		•	, ,	<u>-</u>		,	
	edox (S5)		Umbric Surfa	3) (MLRA	122, 130	³ Indicators of hydrophytic vegetation and				
Stripped	Matrix (S6)		Piedmont Fl	n Soils (F	19) (MLR	RA 148) wetland hydrology must be present,				
Dark Sui	rface (S7)		Red Parent I	Material	(F21) (M	ILRA 127	, 147, 148)	unless	disturbed or problematic.	
Restrictive I	_ayer (if observed):									
Type:										
Depth (ir	nches):						Hydric Soil P	resent?	Yes X No	
Remarks:										

WETLAND DETERMINATION DATA SHEET – Eastern Mountains and Piedmont Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: The Conservancy / Moncure A	Assemblage	City/County: Chatham		Sampling Date:	10/06/2020				
Applicant/Owner: The Conservancy Rea	al Estate Group, LLC		State: NC	Sampling Point:	DP FZ2				
Investigator(s): D. Gainey	·	Section, Township, Range: Cape Fear Township							
Landform (hillside, terrace, etc.): terrace	Lo	cal relief (concave, convex,	-	Slope (%):	0.5				
Subregion (LRR or MLRA): LRR P, MLRA 1		•	79.0159	Datum:	NAD83				
Soil Map Unit Name: CrC—Creedmoor-Gre	•		NWI classifica		147 1200				
	•	•			- \				
Are climatic / hydrologic conditions on the sit				explain in Remark					
Are Vegetation, Soil, or Hydro			Circumstances" present		. No				
Are Vegetation, Soil, or Hydro	ologynaturally probl	ematic? (If needed, ex	plain any answers in Re	emarks.)					
SUMMARY OF FINDINGS – Attach	site map showing s	sampling point locati	ons, transects, im	portant featu	res, etc.				
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled Area							
Hydric Soil Present?	Yes No X	within a Wetland?	Yes	No X					
Wetland Hydrology Present?	Yes No X								
Remarks: Per Antecedent Precipitation Tool - Normal	conditions								
HYDROLOGY									
Wetland Hydrology Indicators:			Surface Sail Cracks (R6)						
Primary Indicators (minimum of one is requi Surface Water (A1)	True Aquatic Plants	(R14)	Surface Soil Crac	, ,	oo (B9)				
High Water Table (A2)	Hydrogen Sulfide Oc								
Saturation (A3)		spheres on Living Roots (C3) Moss Trim Lines (B16)							
Water Marks (B1)	Presence of Reduce								
Sediment Deposits (B2)		duction in Tilled Soils (C6) Crayfish Burrows (C8)							
Drift Deposits (B3)	Thin Muck Surface (
Algal Mat or Crust (B4)	Other (Explain in Re	n Remarks) Stunted or Stressed Plants (D1)							
Iron Deposits (B5)		Geomorphic Position (D2)							
Inundation Visible on Aerial Imagery (B	7)	Shallow Aquitard (D3)							
Water-Stained Leaves (B9)			Microtopographic	` '					
Aquatic Fauna (B13)			FAC-Neutral Test	t (D5)					
Field Observations:									
Surface Water Present? Yes	No X Depth (inch								
Water Table Present? Yes	No X Depth (inch		<u> </u>						
Saturation Present? Yes	No X Depth (inch	es): wetland	Hydrology Present?	Yes	No X				
(includes capillary fringe) Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos	nrevious inspections) if a	vailable:						
Describe Recorded Bala (stream gauge, me	ormoring wen, dendi priotes	s, previous inspections), ii a	valiable.						
Remarks:									

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: DP FZ2 Absolute Dominant Indicator Species? <u>Tree Stratum</u> (Plot size: % Cover Status **Dominance Test worksheet:** Liquidambar styraciflua 60 Yes FAC **Number of Dominant Species** Diospyros virginiana 10 FAC 2. No That Are OBL, FACW, or FAC: (A) 3. **Total Number of Dominant** Species Across All Strata: 4. (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 100.0% (A/B) Prevalence Index worksheet: 70 =Total Cover Total % Cover of: 35 50% of total cover: 20% of total cover: **OBL** species x 1 = **FACW** species Sapling/Shrub Stratum (Plot size: 30' x 2 =70 x 3 = FAC species 210 1. 0 **FACU** species x 4 = 0 2. 0 x 5 = 3. UPL species 0 70 Column Totals: (A) 4. 210 (B) Prevalence Index = B/A = 3.00 6. **Hydrophytic Vegetation Indicators:** 7. 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% 8. 3 - Prevalence Index is ≤3.01 4 - Morphological Adaptations¹ (Provide supporting =Total Cover data in Remarks or on a separate sheet) 50% of total cover: 20% of total cover: Herb Stratum (Plot size: 5') Problematic Hydrophytic Vegetation¹ (Explain) 1. ¹Indicators of hydric soil and wetland hydrology must be 2. present, unless disturbed or problematic. 3. **Definitions of Four Vegetation Strata:** Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of 5. height. 6. 7. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless 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: 20% of total cover: Woody Vine Stratum (Plot size: 15') 2. 3. Hydrophytic =Total Cover Vegetation 50% of total cover: 20% of total cover: Present? Yes X No Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: DP FZ2

	ription: (Describe t	to the dep				tor or c	onfirm the al	sence of indi	cators.)		
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Featur	res Type ¹	Loc ²	Toytur	•	Don	narks	
(inches)			Color (moist)	70	туре	LOC	Textur		Ken	liaiks	
0-3	10YR 4/4	100					Loamy/Cla	ayey			
3-12	10YR 4/3	100									
¹Type: C=Cc	oncentration, D=Depl	etion, RM	=Reduced Matrix, N	/IS=Mas	sked San	d Grains.	2	Location: PL=F	Pore Lining, N	M=Matrix.	
Hydric Soil I	ndicators:							Indicators	for Problema	atic Hydric Soils ³ :	
Histosol	(A1)		Polyvalue Be			-	-	2 cm M	uck (A10) (M	ILRA 147)	
Histic Ep	ipedon (A2)		Thin Dark Su	urface (S	39) (MLR	A 147, 1	48)	Coast F	Prairie Redox	(A16)	
Black His	stic (A3)		Loamy Muck	•		ILRA 13	6)	(MLR	A 147, 148)		
Hydrogei	n Sulfide (A4)		Loamy Gleye	ed Matri	x (F2)			Piedmo	nt Floodplair	Soils (F19)	
Stratified	Layers (A5)		Depleted Ma	, ,				(MLR	A 136, 147)		
2 cm Mu	ck (A10) (LRR N)		Redox Dark	Surface	(F6)			Red Pa	rent Material	(F21)	
Depleted	Below Dark Surface	e (A11)	Depleted Da	rk Surfa	ice (F7)			(outs	ide MLRA 12	27, 147, 148)	
Thick Da	rk Surface (A12)		Redox Depre	essions	(F8)			Very Sh	nallow Dark S	Surface (F22)	
Sandy M	ucky Mineral (S1)		Iron-Mangan	ese Ma	sses (F12	2) (LRR I	٧,	Other (I	Explain in Re	marks)	
Sandy G	leyed Matrix (S4)		MLRA 136	•							
Sandy R	edox (S5)		Umbric Surfa								
	Matrix (S6)		Piedmont Flo	odplair	Soils (F	19) (MLR					
Dark Sur	face (S7)		Red Parent I	√laterial	(F21) (M	LRA 127	, 147, 148)	unless	disturbed or p	oroblematic.	
	ayer (if observed):										
Type:									.,		
Depth (in	iches):						Hydric Sc	oil Present?	Yes	NoX	
Remarks:											

WETLAND DETERMINATION DATA SHEET – Eastern Mountains and Piedmont Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: The Conservancy / Moncure A	ssemblage	City/County: Chatham		Sampling Date:	10/08/2020			
Applicant/Owner: The Conservancy Rea	l Estate Group, LLC		State: NC	- Sampling Point:	DP WA1			
Investigator(s): D. Gainey		Section, Township, Range: Cape Fear Township						
Landform (hillside, terrace, etc.): floodplain	Lo	cal relief (concave, convex,		Slope (%):	1			
Subregion (LRR or MLRA): LRR P, MLRA 1		•	78.9913		NAD83			
,					IVADOS			
Soil Map Unit Name: CrC—Creedmoor-Gree			NWI classifica					
Are climatic / hydrologic conditions on the site				explain in Remark				
Are Vegetation, Soil, or Hydro			Circumstances" present?	Yes X	. No			
Are Vegetation, Soil, or Hydro	logynaturally probl	ematic? (If needed, ex	plain any answers in Re	marks.)				
SUMMARY OF FINDINGS – Attach	site map showing	sampling point locati	ons, transects, im	portant featu	res, 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:								
Per Antecedent Precipitation Tool - Normal	conditions							
•								
HYDROLOGY								
Wetland Hydrology Indicators:			Secondary Indicators	(minimum of two	required)			
Primary Indicators (minimum of one is requi		<u>.</u>	Surface Soil Crac					
Surface Water (A1)	True Aquatic Plants							
High Water Table (A2)	Hydrogen Sulfide Od							
Saturation (A3)		pheres on Living Roots (C3) Moss Trim Lines (B16)						
Water Marks (B1)	Presence of Reduce							
Sediment Deposits (B2)		luction in Tilled Soils (C6) Crayfish Burrows (C8)						
Drift Deposits (B3)	Thin Muck Surface (
Algal Mat or Crust (B4) Iron Deposits (B5)	Other (Explain in Re	Geomorphic Position (D2)						
Inundation Visible on Aerial Imagery (B	7)		Shallow Aquitard					
Water-Stained Leaves (B9)	,		Microtopographic	, ,				
Aquatic Fauna (B13)			X FAC-Neutral Test					
Field Observations:								
Surface Water Present? Yes	No X Depth (inch	es):						
	No X Depth (inch							
Saturation Present? Yes X	No Depth (inch		Hydrology Present?	Yes X	No			
(includes capillary fringe)	<u> </u>							
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos	s, previous inspections), if a	vailable:					
Remarks:								

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: DP WA1 Absolute Dominant Indicator Tree Stratum (Plot size: 30' % Cover Species? Status **Dominance Test worksheet:** 1. Acer rubrum 50 Yes FAC **Number of Dominant Species** 2. Fraxinus pennsylvanica 50 Yes **FACW** That Are OBL, FACW, or FAC: (A) 3. **Total Number of Dominant** 4. Species Across All Strata: (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 100.0% (A/B) Prevalence Index worksheet: 100 =Total Cover Total % Cover of: 50% of total cover: 50 20% of total cover: **OBL** species x 1 = **FACW** species Sapling/Shrub Stratum (Plot size: 30' x 2 =140 **FAC** species x 3 = 420 1. **FACU** species 2. x 4 =3. UPL species 0 x 5 = 0 Column Totals: 210 (A) 4. 560 (B) 5. Prevalence Index = B/A = 6. **Hydrophytic Vegetation Indicators:** 1 - Rapid Test for Hydrophytic Vegetation 7. 8. X 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting =Total Cover data in Remarks or on a separate sheet) 50% of total cover: 20% of total cover: Herb Stratum (Plot size: Problematic Hydrophytic Vegetation¹ (Explain) Microstegium vimineum Yes FAC ¹Indicators of hydric soil and wetland hydrology must be Woodwardia areolata 2. Yes **FACW** present, unless disturbed or problematic. 3. **Definitions of Four Vegetation Strata:** 4. Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of 5. height. 6. 7. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft 8. (1 m) tall. 10. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. 80 =Total Cover Woody Vine - All woody vines greater than 3.28 ft in 50% of total cover: 20% of total cover: Woody Vine Stratum (Plot size: 15') 1. Smilax rotundifolia 2. 3. 4. Hydrophytic 30 =Total Cover Vegetation 50% of total cover: 20% of total cover: Present? Yes X No Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: DP WA1

	ription: (Describe t	o the de				ator or c	onfirm the absenc	e of indicators.)			
Depth	Matrix	0/		k Featur		12	Tandona	Damada			
(inches)	Color (moist)	<u>%</u>	Color (moist)		Type ¹	Loc ²	Texture	Remarks			
0-1	10YR 5/4	100					Loamy/Clayey	_			
1-12	10YR 4/2	90	10YR 6/6	10	C	PL	Loamy/Clayey				
								_			
¹ Type: C=Co	ncentration, D=Deple	etion. RM	=Reduced Matrix, N	 IS=Mas	ked Sand	Grains.	² l ocati	on: PL=Pore Lining, M=Matrix.			
Hydric Soil I	•	J. 1011, 1111	. rouges a manny n					dicators for Problematic Hydri	c Soils³:		
Histosol (Polyvalue Be	low Sur	rface (S8)	(MLRA		2 cm Muck (A10) (MLRA 147)			
	ipedon (A2)		Thin Dark Su			-		Coast Prairie Redox (A16)			
Black His	tic (A3)		Loamy Muck	y Miner	al (F1) (N	ILRA 13	<u>—</u> 6)	(MLRA 147, 148)			
Hydroger	Sulfide (A4)		Loamy Gleye	ed Matri	x (F2)			Piedmont Floodplain Soils (F1	9)		
	Layers (A5)		X Depleted Ma					(MLRA 136, 147)			
	ck (A10) (LRR N)		Redox Dark					Red Parent Material (F21)			
	Below Dark Surface	(A11)	Depleted Da					(outside MLRA 127, 147, 14	-		
	rk Surface (A12)		Redox Depre			o) // DD /	<u> </u>	Very Shallow Dark Surface (F2	22)		
	ucky Mineral (S1) eyed Matrix (S4)		Iron-Mangan MLRA 136		SSES (F 12	2) (LKK I	<u> </u>	Other (Explain in Remarks)			
	edox (S5)		Umbric Surfa	•	3) (MLRA	122, 13	³ Indicators of hydrophytic vegetation and				
	Matrix (S6)		Piedmont Flo								
Dark Sur			Red Parent I				-	unless disturbed or problemati			
Restrictive L	ayer (if observed):		_ 								
Type:											
Depth (in	ches):						Hydric Soil Pre	sent? Yes X No_			
Remarks:											

WETLAND DETERMINATION DATA SHEET – Eastern Mountains and Piedmont Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: The Conservancy / Moncure	Assemblage	City/County: Chatham		Sampling Date:	10/08/2020				
Applicant/Owner: The Conservancy Re	al Estate Group, LLC		State: NC	Sampling Point:	DP WAB1				
Investigator(s): D. Gainey	•	Section, Township, Range: Cape Fear Township							
Landform (hillside, terrace, etc.): floodplai	n Lo	ocal relief (concave, convex, non		Slope (%):	1				
Subregion (LRR or MLRA): LRR P, MLRA		Long: -79.0		Datum:	NAD83				
Soil Map Unit Name: CrC—Creedmoor-Gr			NWI classifica		1471200				
•	·								
Are climatic / hydrologic conditions on the s				explain in Remark					
Are Vegetation, Soil, or Hydr	<u> </u>		imstances" present?		No				
Are Vegetation, Soil, or Hydr	ologynaturally prob	lematic? (If needed, explain	n any answers in Re	emarks.)					
SUMMARY OF FINDINGS – Attac	h site map showing	sampling point locations	s, transects, im	portant featu	res, etc.				
Hydrophytic Vegetation Present?	Yes No X	Is the Sampled Area							
Hydric Soil Present?	Yes No X	within a Wetland?	Yes	No X					
Wetland Hydrology Present?	Yes No X								
Remarks: Per Antecedent Precipitation Tool - Norma	conditions								
HYDROLOGY									
Wetland Hydrology Indicators:		<u>Se</u>	econdary Indicators	•	required)				
Primary Indicators (minimum of one is requ	• • • • • • • • • • • • • • • • • • • •	(D.4.4)	_Surface Soil Crac	` '	(D.0)				
Surface Water (A1)	True Aquatic Plants								
High Water Table (A2) Saturation (A3)	Hydrogen Sulfide Od	e Odor (C1) X Drainage Patterns (B10) pheres on Living Roots (C3) Moss Trim Lines (B16)							
Water Marks (B1)	Presence of Reduce								
Sediment Deposits (B2)		uction in Tilled Soils (C6) Crayfish Burrows (C8)							
Drift Deposits (B3)	Thin Muck Surface (
Algal Mat or Crust (B4)	Other (Explain in Re								
Iron Deposits (B5)		Geomorphic Position (D2)							
Inundation Visible on Aerial Imagery (E	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 (inch								
Water Table Present? Yes	No X Depth (inch								
Saturation Present? Yes	No X Depth (inch	es): Wetland Hyd	rology Present?	Yes	No X				
(includes capillary fringe) Describe Recorded Data (stream gauge, m	ponitoring well perial photo	e previous inspections) if avails	phle:						
Describe Necolded Data (Stream gauge, II	ionitoring well, aenai prioto-	s, previous irispections), ir availa	able.						
Remarks:									

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: DP WAB1 Absolute Dominant Indicator Species? Tree Stratum (Plot size: 30' % Cover Status **Dominance Test worksheet:** Quercus nigra 1. 10 Yes FAC **Number of Dominant Species** 2. Quercus alba 20 Yes FACU That Are OBL, FACW, or FAC: (A) 3. **Total Number of Dominant** 4. Species Across All Strata: (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 40.0% (A/B) Prevalence Index worksheet: =Total Cover Total % Cover of: 15 50% of total cover: 20% of total cover: **OBL** species x 1 = Sapling/Shrub Stratum (Plot size: 30' **FACW** species x 2 =15 llex opaca 15 **FACU FAC** species x 3 = 1. Liquidambar styraciflua Yes FAC **FACU** species 55 2. x 4 = 3. UPL species 0 x 5 = 0 4. Column Totals: 70 (A) 265 (B) 5. Prevalence Index = B/A = 6. **Hydrophytic Vegetation Indicators:** 1 - Rapid Test for Hydrophytic Vegetation 7. 8. 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.01 9. 4 - Morphological Adaptations¹ (Provide supporting 20 =Total Cover data in Remarks or on a separate sheet) 50% of total cover: 10 20% of total cover: 5') Herb Stratum (Plot size: Problematic Hydrophytic Vegetation¹ (Explain) Vaccinium arboreum **FACU** ¹Indicators 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 more in diameter at breast height (DBH), regardless of 5. height. 6. 7. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft 8. (1 m) tall. 10. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. 20 =Total Cover Woody Vine - All woody vines greater than 3.28 ft in 50% of total cover: 10 20% of total cover: Woody Vine Stratum (Plot size: 15') 2. 3. Hydrophytic =Total Cover Vegetation 50% of total cover: 20% of total cover: Present? No X Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: DP WAB1

	ription: (Describe t	o the de				ator or c	onfirm the absen	ce of indic	cators.)			
Depth (inches)	Matrix	0/		x Featur		Loc ²	Toyturo		Dom	n o riko		
(inches)	Color (moist)	400	Color (moist)	<u>%</u>	Type ¹	LOC	Texture		Ken	narks	-	
0-6	10YR 5/4	100					Loamy/Clayey		-			
6-12	10YR 6/3	90	10YR 6/6	10	<u>C</u>	PL	Loamy/Clayey					
											_	
											-	
											_	
¹Type: C=Co	ncentration, D=Deple	etion RM	=Reduced Matrix N	 IS=Mas	ked Sand		² l ocat	ion: PI =F	Pore Lining, N	 Λ=Matrix	-	
Hydric Soil I	•	J. 1011, 1111	-roddod Matrix, II	io-ivido	nou ounc	- Craino.				atic Hydric Soils ³	:	
Histosol (Polyvalue Be	elow Sui	rface (S8)	(MLRA			uck (A10) (M	•		
	pedon (A2)		Thin Dark Su			-			rairie Redox			
Black His	tic (A3)		Loamy Muck	y Miner	al (F1) (N	ILRA 13	<u> </u>	(MLR	A 147, 148)			
Hydroger	Sulfide (A4)		Loamy Gleye	ed Matri	x (F2)			Piedmo	nt Floodplain	Soils (F19)		
	Layers (A5)		Depleted Ma					(MLR	A 136, 147)			
	ck (A10) (LRR N)		Redox Dark					_	rent Material			
	Below Dark Surface	(A11)	Depleted Da		, ,			•		27, 147, 148)		
	rk Surface (A12)		Redox Depre			o) // DD /	<u> </u>			Surface (F22)		
	ucky Mineral (S1) eyed Matrix (S4)		Iron-Mangan		SSES (F 12	2) (LKK I		_Other (E	Explain in Re	marks)		
Sandy Re			Umbric Surfa	•	3) (MLRA	122, 13	3) ³ lı	ndicators o	of hydrophytic	c vegetation and		
	Matrix (S6)		Piedmont Flo									
Dark Sur			Red Parent I				-		disturbed or p			
Restrictive L	ayer (if observed):											
Type:												
Depth (in	ches):						Hydric Soil Pro	esent?	Yes	No X		
Remarks:												

WETLAND DETERMINATION DATA SHEET – Eastern Mountains and Piedmont Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: The Conservancy / Moncure A	Assemblage	City/County: Chatham		_Sampling Date:	10/06/2020
Applicant/Owner: The Conservancy Rea	al Estate Group, LLC		State: NC	- Sampling Point:	DP WAD1
Investigator(s): D. Gainey		Section, Township, Range:	Cape Fear Township	_	
Landform (hillside, terrace, etc.): terrace	Lo	cal relief (concave, convex,		Slope (%):	0.5
Subregion (LRR or MLRA): LRR P, MLRA			78.9939		NAD83
Soil Map Unit Name: CrC—Creedmoor-Gre			NWI classificat		
Are climatic / hydrologic conditions on the sit					c)
	• • • • • • • • • • • • • • • • • • • •			explain in Remark	
Are Vegetation, Soil, or Hydro			ircumstances" present?		. NO
Are Vegetation, Soil, or Hydro			olain any answers in Re	,	
SUMMARY OF FINDINGS – Attach	site map showing	sampling point location	ons, transects, im	portant featu	res, 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:					
Per Antecedent Precipitation Tool - Normal	conditions				
HYDROLOGY					
Wetland Hydrology Indicators:			Secondary Indicators		required)
Primary Indicators (minimum of one is requ			Surface Soil Crack		·=->
Surface Water (A1)	True Aquatic Plants		Sparsely Vegetate		ce (B8)
X High Water Table (A2)	Hydrogen Sulfide Od		X Drainage Patterns		
Saturation (A3)		res on Living Roots (C3)	Moss Trim Lines (
Water Marks (B1)	Presence of Reduce		Dry-Season Wate		
Sediment Deposits (B2) Drift Deposits (B3)	Thin Muck Surface (on in Tilled Soils (C6)	Crayfish Burrows Saturation Visible		v (C0)
Algal Mat or Crust (B4)	Other (Explain in Re	,	Stunted or Stresse		y (C3)
Iron Deposits (B5)	Other (Explain in Ne	iliaiks)	Geomorphic Posit		
Inundation Visible on Aerial Imagery (B	7)		Shallow Aquitard		
Water-Stained Leaves (B9)	.,		Microtopographic	, ,	
Aquatic Fauna (B13)			X FAC-Neutral Test		
Field Observations:			<u> </u>	· ,	
Surface Water Present? Yes	No X Depth (inch	es):			
Water Table Present? Yes X	No Depth (inch				
Saturation Present? Yes	No X Depth (inch		Hydrology Present?	Yes X	No
(includes capillary fringe)					
Describe Recorded Data (stream gauge, me	onitoring well, aerial photo:	s, previous inspections), if av	/ailable:		
Remarks:					

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: DP WAD1

	% Cover	Species?	Status	Dominance Test worksheet:
1.				Number of Dominant Species
2				That Are OBL, FACW, or FAC:3(A)
3				Total Number of Dominant
4				Species Across All Strata: 4 (B)
5. 6.	-			Percent of Dominant Species That Are OBL, FACW, or FAC: 75.0% (A/B)
7.				Prevalence Index worksheet:
_		=Total Cover		Total % Cover of: Multiply by:
50% of total cover:	20%	of total cover:		OBL species 0 x 1 = 0
Sapling/Shrub Stratum (Plot size: 30')				FACW species 30 x 2 = 60
1. Vaccinium corymbosum	5	Yes	FACW	FAC species 50 x 3 = 150
2				FACU species 5 x 4 = 20
3				UPL species 0 x 5 = 0
4				Column Totals: 85 (A) 230 (B)
5				Prevalence Index = B/A = 2.71
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
<u>_</u>	5	=Total Cover		4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover: 3	20%	of total cover:	1	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5')				Problematic Hydrophytic Vegetation ¹ (Explain)
1. Microstegium vimineum	50	Yes	FAC	¹ Indicators of hydric soil and wetland hydrology must be
2. Woodwardia areolata	20	Yes	FACW	present, unless disturbed or problematic.
3. Osmundastrum cinnamomeum	5	No	FACW	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 of size, and woody plants less than 3.28 ft tall.
	75	=Total Cover		Woody Vine – All woody vines greater than 3.28 ft in
50% of total cover: 38		of total cover:	15	height.
Woody Vine Stratum (Plot size: 15')		or total bover.		
Smilax rotundifolia	5	Yes	FACU	
2.		103	1700	
3.	_			
4.	_			
5.				
J	5	=Total Cover		Hydrophytic
F0% of total cover:		of total cover:	4	Vegetation Present? Yes X No
50% of total cover: 3		or total cover.		Present? Yes X No No
Remarks: (Include photo numbers here or on a separa	ite sheet.)			

SOIL Sampling Point: DP WAD1

Profile Desc Depth	cription: (Describe t Matrix	o the de		ument t x Featu		ator or c	onfirm the absence	of indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-4	10YR 4/3	95	10YR 6/8	5	C	PL	Loamy/Clayey	Prominent redox concentrations
4-12	10YR 5/2	95	10YR 6/8	5	С	PL	Loamy/Clayey	Prominent redox concentrations
		<u></u>			<u> </u>	<u> </u>		
¹ Type: C=Co	oncentration, D=Depl	etion, RM	=Reduced Matrix, N	 IS=Mas	ked San	d Grains.	² Location	n: PL=Pore Lining, M=Matrix.
Hydric Soil I	Indicators:						Indi	cators for Problematic Hydric Soils ³ :
Histosol			Polyvalue Be					2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Thin Dark Su				· —	Coast Prairie Redox (A16)
Black His	` '		Loamy Muck			ILKA 13	-	(MLRA 147, 148)
	n Sulfide (A4) d Layers (A5)		Loamy Gleye X Depleted Ma					Piedmont Floodplain Soils (F19)
	ick (A10) (LRR N)		Redox Dark	, ,				(MLRA 136, 147) Red Parent Material (F21)
	d Below Dark Surface	(A11)	Depleted Da					(outside MLRA 127, 147, 148)
	ark Surface (A12)	(7(11)	Redox Depre					Very Shallow Dark Surface (F22)
	lucky Mineral (S1)		Iron-Mangan			2) (LRR I		Other (Explain in Remarks)
	sleyed Matrix (S4)		MLRA 136		(_, (· —	(
	edox (S5)		Umbric Surfa	•	3) (MLRA	122, 13	6) ³ Ind	icators of hydrophytic vegetation and
	Matrix (S6)		Piedmont Flo					wetland hydrology must be present,
	rface (S7)		Red Parent I					unless disturbed or problematic.
	Layer (if observed):				. , ,		<u> </u>	<u>·</u>
Type:								
Depth (ir	nches):						Hydric Soil Pres	ent? Yes X No
Remarks:								
ı								

WETLAND DETERMINATION DATA SHEET – Eastern Mountains and Piedmont Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: The Conservancy / Moncure A	ssemblage	City/County: Chatham		_Sampling Date:	10/08/2020
Applicant/Owner: The Conservancy Rea	l Estate Group, LLC		State: NC	- Sampling Point:	DP WD1
Investigator(s): D. Gainey		Section, Township, Range:	Cape Fear Township	_	
Landform (hillside, terrace, etc.): terrace	Lo	cal relief (concave, convex,		Slope (%):	0.5
Subregion (LRR or MLRA): LRR P, MLRA 1			78.9962		NAD83
Soil Map Unit Name: CrC—Creedmoor-Gree			NWI classificat		1471200
					- \
Are climatic / hydrologic conditions on the site	• • • • • • • • • • • • • • • • • • • •			explain in Remark	
Are Vegetation, Soil, or Hydro	· · · · · · · · · · · · · · · · · · ·		ircumstances" present?		No
Are Vegetation, Soil, or Hydro	logynaturally probl	ematic? (If needed, exp	olain any answers in Re	emarks.)	
SUMMARY OF FINDINGS – Attach	site map showing s	sampling point location	ons, transects, im	portant featu	res, 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	mam a modalia.	<u>x</u>		
Remarks:					
Per Antecedent Precipitation Tool - Normal	conditions				
·					
HYDROLOGY					
Wetland Hydrology Indicators:			Secondary Indicators	(minimum of two	required)
Primary Indicators (minimum of one is requi	red; check all that apply)		Surface Soil Crack	ks (B6)	
Surface Water (A1)	True Aquatic Plants		Sparsely Vegetate		ce (B8)
High Water Table (A2)	Hydrogen Sulfide Oc		X Drainage Patterns		
Saturation (A3)		es on Living Roots (C3)	Moss Trim Lines (
Water Marks (B1)	Presence of Reduce		Dry-Season Wate		
Sediment Deposits (B2)		on in Tilled Soils (C6)	Crayfish Burrows		(00)
Drift Deposits (B3)	Thin Muck Surface (Saturation Visible		/ (C9)
Algal Mat or Crust (B4)	Other (Explain in Re	marks)	Stunted or Stresse		
Iron Deposits (B5)	7)		Geomorphic Posit		
Inundation Visible on Aerial Imagery (B7 Water-Stained Leaves (B9))		Shallow Aquitard (
Aquatic Fauna (B13)			FAC-Neutral Test	` '	
Field Observations:		<u> </u>		(50)	
Surface Water Present? Yes	No X Depth (inch	96).			
Water Table Present? Yes	No X Depth (inch				
Saturation Present? Yes	No X Depth (inch		Hydrology Present?	Yes X	No
(includes capillary fringe)			,	<u>//</u>	
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos	s, previous inspections), if a	vailable:		
Remarks:					

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: DP WD1 Absolute Dominant Indicator Tree Stratum (Plot size: 30' % Cover Species? Status **Dominance Test worksheet:** Quercus nigra 1. 40 Yes FAC **Number of Dominant Species** 2. Liquidambar styraciflua 10 No FAC That Are OBL, FACW, or FAC: (A) 3. Acer rubrum 40 Yes FAC **Total Number of Dominant** 4. Species Across All Strata: (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 60.0% (A/B) Prevalence Index worksheet: 90 =Total Cover Total % Cover of: 50% of total cover: 20% of total cover: **OBL** species x 1 = **FACW** species Sapling/Shrub Stratum (Plot size: 30' x 2 =llex opaca 10 **FACU FAC** species 110 x 3 = 330 1. **FACU** species 10 2. x 4 = 3. UPL species 0 x 5 = 0 4. Column Totals: 120 (A) 370 (B) 5. Prevalence Index = B/A = 6. **Hydrophytic Vegetation Indicators:** 1 - Rapid Test for Hydrophytic Vegetation 7. 8. X 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.01 9. 4 - Morphological Adaptations¹ (Provide supporting 10 =Total Cover data in Remarks or on a separate sheet) 50% of total cover: 5 20% of total cover: Herb Stratum (Plot size: Problematic Hydrophytic Vegetation¹ (Explain) Microstegium vimineum Yes FAC ¹Indicators of hydric soil and wetland hydrology must be 2. Carex sp. present, unless disturbed or problematic. 3. **Definitions of Four Vegetation Strata:** 4. Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of 5. height. 6. 7. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft 8. (1 m) tall. 10. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. 60 =Total Cover Woody Vine - All woody vines greater than 3.28 ft in 50% of total cover: 30 20% of total cover: Woody Vine Stratum (Plot size: 15') 2. 3. Hydrophytic =Total Cover Vegetation 50% of total cover: 20% of total cover: Present? Yes X No Remarks: (Include photo numbers here or on a separate sheet.) Sphagnum moss present

SOIL Sampling Point: DP WD1

	-	o the de				ator or c	onfirm the absence	of indicators.)
Depth	Matrix	0/		x Featur		12	Tartura	Demonto
(inches) 0-4	Color (moist)	400	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
	10YR 5/4	100					Loamy/Clayey	
4-12	10YR 4/2	80	10YR 6/6	20	<u>C</u>	PL	Loamy/Clayey	Prominent redox concentrations
	ncentration, D=Deple	etion, RM	=Reduced Matrix, N	/IS=Mas	ked Sand	d Grains.		n: PL=Pore Lining, M=Matrix.
Hydric Soil I								cators for Problematic Hydric Soils ³ :
Histosol (Polyvalue Be			-		2 cm Muck (A10) (MLRA 147)
	ipedon (A2)		Thin Dark Su					Coast Prairie Redox (A16)
Black His	, ,		Loamy Muck			ILRA 13	-	(MLRA 147, 148)
	n Sulfide (A4) Layers (A5)		Loamy Gleye					Piedmont Floodplain Soils (F19)
	ck (A10) (LRR N)		Redox Dark					(MLRA 136, 147) Red Parent Material (F21)
	Below Dark Surface	(Δ11)	Depleted Da		, ,			(outside MLRA 127, 147, 148)
	rk Surface (A12)	(7(1)	Redox Depre					Very Shallow Dark Surface (F22)
	ucky Mineral (S1)		Iron-Mangan		. ,	2) (LRR I		Other (Explain in Remarks)
	eyed Matrix (S4)		MLRA 136		(-, (· —	(=,
	edox (S5)		Umbric Surfa	•	B) (MLRA	122, 13	6) ³ Indi	icators of hydrophytic vegetation and
	Matrix (S6)		Piedmont Flo					wetland hydrology must be present,
Dark Sur			Red Parent I	Material	(F21) (M	LRA 127		unless disturbed or problematic.
Restrictive L	ayer (if observed):							
Type:								
Depth (in	ches):						Hydric Soil Pres	ent? Yes X No
Remarks:								

WETLAND DETERMINATION DATA SHEET – Eastern Mountains and Piedmont Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: The Conservancy / Moncure A	ssemblage	City/County: Chatham		_Sampling Date:	10/06/2020
Applicant/Owner: The Conservancy Rea	l Estate Group, LLC		State: NC	Sampling Point:	WDG1
Investigator(s): K. Hamlin/P.Beach		Section, Township, Range:	Cape Fear Township	_	
Landform (hillside, terrace, etc.): hillside	Lo	cal relief (concave, convex,		Slope (%):	0.5
Subregion (LRR or MLRA): LRR P, MLRA 1			79.0351		NAD83
,			NWI classifica		1471200
Soil Map Unit Name: CrB—Creedmoor-Gree					- \
Are climatic / hydrologic conditions on the site				explain in Remark	
Are Vegetation, Soil, or Hydro	·		ircumstances" present?		No
Are Vegetation, Soil, or Hydro	logynaturally probl	ematic? (If needed, exp	olain any answers in Re	emarks.)	
SUMMARY OF FINDINGS – Attach	site map showing s	sampling point location	ons, transects, im	portant featu	res, etc.
Hydrophytic Vegetation Present?	Yes No X	Is the Sampled Area			
Hydric Soil Present?	Yes No X	within a Wetland?	Yes	No X	
Wetland Hydrology Present?	Yes No X				
Remarks:					
Per Antecedent Precipitation Tool - Normal	conditions				
•					
HYDROLOGY					
Wetland Hydrology Indicators:			Secondary Indicators	(minimum of two	required)
Primary Indicators (minimum of one is requi	red; check all that apply)		Surface Soil Crac		
Surface Water (A1)	True Aquatic Plants		Sparsely Vegetate		ce (B8)
High Water Table (A2)	Hydrogen Sulfide Oc		X Drainage Patterns		
Saturation (A3)		res on Living Roots (C3)	Moss Trim Lines (
Water Marks (B1)	Presence of Reduce		Dry-Season Wate		
Sediment Deposits (B2)		on in Tilled Soils (C6)	Crayfish Burrows		(00)
Drift Deposits (B3)	Thin Muck Surface (Saturation Visible		/ (C9)
Algal Mat or Crust (B4) Iron Deposits (B5)	Other (Explain in Re	marks)	Stunted or Stress		
Inundation Visible on Aerial Imagery (B7	7\		Geomorphic Posit Shallow Aquitard		
Water-Stained Leaves (B9))		Microtopographic		
Aquatic Fauna (B13)			FAC-Neutral Test	. ,	
Field Observations:				(50)	
Surface Water Present? Yes	No X Depth (inch	ec).			
Water Table Present? Yes	No X Depth (inch				
Saturation Present? Yes	No X Depth (inch		Hydrology Present?	Yes	No X
(includes capillary fringe)			,		
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos	s, previous inspections), if a	/ailable:		
Remarks:					

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

EGETATION (Four Strata) – Use scient	^ haaluta	Dominant	Indicator	Т
ee Stratum (Plot size:30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
Ulmus alata	40	Yes	FACU	Number of Dominant Species
Acer rubrum	10	No	FAC	That Are OBL, FACW, or FAC: 4 (A)
Pinus taeda	10	No	FAC	
Tilluo taoda			17.0	Total Number of Dominant Species Across All Strata: 13 (B)
				Species Across All Strata.
				Percent of Dominant Species
				That Are OBL, FACW, or FAC: 30.8% (A/B
				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
pling/Shrub Stratum (Plot size: 30')			FACW species 0 x 2 = 0
Ulmus alata	., 15	Yes	FACU	FAC species 45 x 3 = 135
	10		FAC	
Liquidambar styraciflua		Yes		FACU species 105 x 4 = 420
llex opaca	10	Yes	FACU	UPL species 0 x 5 = 0
				Column Totals: 150 (A) 555 (E
				Prevalence Index = B/A = 3.70
				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
				2 - Dominance Test is >50%
				3 - Prevalence Index is ≤3.0¹
		=Total Cover		4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover:		=Total Cover of total cover:	7	data in Remarks or on a separate sheet)
			7	
			7 FACU	data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain)
erb Stratum (Plot size: 5') Juniperus virginiana	10 20%	of total cover:	FACU	data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) Indicators of hydric soil and wetland hydrology must
brb Stratum (Plot size: 5') Juniperus virginiana Lonicera japonica	18 20% 10 5	of total cover: Yes Yes	FACU FACU	data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic.
Stratum (Plot size: 5') Juniperus virginiana Lonicera japonica Polystichum acrostichoides	18 20% 10 5 5	Yes Yes Yes	FACU FACU	data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata:
Lonicera japonica Polystichum acrostichoides Microstegium vimineum	18 20% 10 5 5 5	Yes Yes Yes Yes Yes	FACU FACU FACU FAC	data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm)
Stratum (Plot size: 5') Juniperus virginiana Lonicera japonica Polystichum acrostichoides	18 20% 10 5 5	Yes Yes Yes	FACU FACU	data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) more in diameter at breast height (DBH), regardless
Juniperus virginiana Lonicera japonica Polystichum acrostichoides Microstegium vimineum	18 20% 10 5 5 5	Yes Yes Yes Yes Yes	FACU FACU FACU FAC	data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm)
Juniperus virginiana Lonicera japonica Polystichum acrostichoides Microstegium vimineum Parthenocissus quinquefolia	18 20% 10 5 5 5 5 5	Yes Yes Yes Yes Yes Yes Yes	FACU FACU FAC FAC	data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) more in diameter at breast height (DBH), regardless height.
Juniperus virginiana Lonicera japonica Polystichum acrostichoides Microstegium vimineum Parthenocissus quinquefolia	18 20% 10 5 5 5 5 5	Yes Yes Yes Yes Yes Yes Yes	FACU FACU FAC FAC	data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) more in diameter at breast height (DBH), regardless height.
Juniperus virginiana Lonicera japonica Polystichum acrostichoides Microstegium vimineum Parthenocissus quinquefolia	18 20% 10 5 5 5 5 5	Yes Yes Yes Yes Yes Yes Yes	FACU FACU FAC FAC	data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) more in diameter at breast height (DBH), regardless height. Sapling/Shrub – Woody plants, excluding vines, les
Juniperus virginiana Lonicera japonica Polystichum acrostichoides Microstegium vimineum Parthenocissus quinquefolia Ilex opaca	18 20% 10 5 5 5 5 5	Yes Yes Yes Yes Yes Yes Yes	FACU FACU FAC FAC	data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) more in diameter at breast height (DBH), regardless height. Sapling/Shrub – Woody plants, excluding vines, lest than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
Juniperus virginiana Lonicera japonica Polystichum acrostichoides Microstegium vimineum Parthenocissus quinquefolia Ilex opaca	18 20% 10 5 5 5 5 5	Yes Yes Yes Yes Yes Yes Yes	FACU FACU FAC FAC	data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) more in diameter at breast height (DBH), regardless height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless
Juniperus virginiana Lonicera japonica Polystichum acrostichoides Microstegium vimineum Parthenocissus quinquefolia Ilex opaca	18 20% 10 5 5 5 5 5	Yes Yes Yes Yes Yes Yes Yes Yes Yes	FACU FACU FAC FAC	data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) more in diameter at breast height (DBH), regardless height. Sapling/Shrub – Woody plants, excluding vines, les than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.
Juniperus virginiana Lonicera japonica Polystichum acrostichoides Microstegium vimineum Parthenocissus quinquefolia Ilex opaca	18 20% 10 5 5 5 5 5	Yes Yes Yes Yes Yes Yes Yes	FACU FACU FAC FAC	data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) more in diameter at breast height (DBH), regardless height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in
Juniperus virginiana Lonicera japonica Polystichum acrostichoides Microstegium vimineum Parthenocissus quinquefolia Ilex opaca	18 20% 10 5 5 5 5 5 5 35	Yes Yes Yes Yes Yes Yes Yes Yes Yes	FACU FACU FAC FAC	data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) more in diameter at breast height (DBH), regardless height. Sapling/Shrub – Woody plants, excluding vines, lest than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.
Juniperus virginiana Lonicera japonica Polystichum acrostichoides Microstegium vimineum Parthenocissus quinquefolia Ilex opaca	18 20% 10 5 5 5 5 5 5 35	Yes	FACU FACU FAC FACU FACU	data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) more in diameter at breast height (DBH), regardless height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in
Juniperus virginiana Lonicera japonica Polystichum acrostichoides Microstegium vimineum Parthenocissus quinquefolia Ilex opaca 50% of total cover:	18 20% 10 5 5 5 5 5 5 35	Yes Yes Yes Yes Yes Yes Yes Yes Yes Of total Cover Yes Yes Yes Yes	FACU FACU FACU FACU FACU FACU FACU	data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) more in diameter at breast height (DBH), regardless height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in
Juniperus virginiana Lonicera japonica Polystichum acrostichoides Microstegium vimineum Parthenocissus quinquefolia Ilex opaca 50% of total cover: Soody Vine Stratum (Plot size: 15') Smilax rotundifolia	18 20% 10 5 5 5 5 5 5 18 20%	Yes	FACU FACU FACU FACU FACU FACU FACU	data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) more in diameter at breast height (DBH), regardless height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in
Juniperus virginiana Lonicera japonica Polystichum acrostichoides Microstegium vimineum Parthenocissus quinquefolia Ilex opaca 50% of total cover: oody Vine Stratum (Plot size: 15') Smilax rotundifolia Vitis rotundifolia	18 20% 10 5 5 5 5 5 5 18 20%	Yes	FACU FACU FACU FACU FACU FACU FACU FACU	data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) more in diameter at breast height (DBH), regardless height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in
Juniperus virginiana Lonicera japonica Polystichum acrostichoides Microstegium vimineum Parthenocissus quinquefolia Ilex opaca 50% of total cover: oody Vine Stratum (Plot size: 15') Smilax rotundifolia	18 20% 10 5 5 5 5 5 5 18 20%	Yes	FACU FACU FACU FACU FACU FACU FACU	data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) more in diameter at breast height (DBH), regardless height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in
Juniperus virginiana Lonicera japonica Polystichum acrostichoides Microstegium vimineum Parthenocissus quinquefolia Ilex opaca 50% of total cover: oody Vine Stratum (Plot size: 15') Smilax rotundifolia Vitis rotundifolia	18 20% 10 5 5 5 5 5 5 18 20%	Yes	FACU FACU FACU FACU FACU FACU FACU FACU	data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) more in diameter at breast height (DBH), regardless height. Sapling/Shrub – Woody plants, excluding vines, lest than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in
Juniperus virginiana Lonicera japonica Polystichum acrostichoides Microstegium vimineum Parthenocissus quinquefolia Ilex opaca 50% of total cover: oody Vine Stratum (Plot size: 15') Smilax rotundifolia Vitis rotundifolia	18 20% 10 5 5 5 5 5 5 18 20%	Yes	FACU FACU FACU FACU FACU FACU FACU FACU	data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) more in diameter at breast height (DBH), regardless height. Sapling/Shrub – Woody plants, excluding vines, lest than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in height.
Juniperus virginiana Lonicera japonica Polystichum acrostichoides Microstegium vimineum Parthenocissus quinquefolia Ilex opaca 50% of total cover: coody Vine Stratum (Plot size: 15') Smilax rotundifolia Vitis rotundifolia	18 20% 10 5 5 5 5 5 5 18 20%	Yes	FACU FACU FACU FACU FACU FACU FACU FACU	data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) more in diameter at breast height (DBH), regardless height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in height.
Juniperus virginiana Lonicera japonica Polystichum acrostichoides Microstegium vimineum Parthenocissus quinquefolia Ilex opaca 50% of total cover: coody Vine Stratum (Plot size: 15') Smilax rotundifolia Vitis rotundifolia Toxicodendron radicans	18 20% 10 5 5 5 5 5 5 18 20% 10 5 5 5 20 5	Yes	FACU FACU FACU FACU FACU FACU FACU FACU	data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) more in diameter at breast height (DBH), regardless height. Sapling/Shrub – Woody plants, excluding vines, lest than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft i height.

SOIL Sampling Point: WDG1

	ription: (Describe t	to the de				ator or co	onfirm the ab	sence of indi	cators.)	
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Featur	res Type ¹	Loc ²	Texture		Por	narks
0-4	7.5YR 5/3	100	Color (moist)	70	туре	LOC	Loamy/Cla		Kei	IIdiks
								, ,		
4-12	7.5YR 4/3	100					Loamy/Cla	yey		
¹Type: C=Co	ncentration, D=Depl	letion, RM	=Reduced Matrix, N	/IS=Mas	ked Sand	Grains.	² L	ocation: PL=I	Pore Lining, I	M=Matrix.
Hydric Soil I	ndicators:							Indicators	for Problem	atic Hydric Soils ³ :
Histosol	(A1)		Polyvalue Be			-	-	2 cm M	uck (A10) (N	ILRA 147)
	ipedon (A2)		Thin Dark Su						Prairie Redox	(A16)
Black His			Loamy Muck			ILRA 13	6)	-	A 147, 148)	
	n Sulfide (A4)		Loamy Gleye							n Soils (F19)
	Layers (A5)		Depleted Ma	, ,				-	RA 136, 147)	(504)
	ck (A10) (LRR N)	. (Δ11)	Redox Dark						rent Material	
	Below Dark Surface rk Surface (A12)	(A11)	Depleted Da Redox Depre					-		27, 147, 148) Surface (F22)
	ucky Mineral (S1)		Iron-Mangan			2) (I RR I	N.		Explain in Re	, ,
	leyed Matrix (S4)		MLRA 136		0000 (1 12	-) (- :::: :	*,		Explain in re	markoj
	edox (S5)		Umbric Surfa	-	3) (MLRA	122, 130	6)	³ Indicators	of hydrophyti	c vegetation and
	Matrix (S6)		Piedmont Flo				-			nust be present,
Dark Sur	face (S7)		Red Parent I	Material	(F21) (M	LRA 127	, 147, 148)	unless	disturbed or	problematic.
Restrictive L	ayer (if observed):									
Type:										
Depth (in	iches):						Hydric Soi	I Present?	Yes	No <u>X</u>
Remarks:										

WETLAND DETERMINATION DATA SHEET – Eastern Mountains and Piedmont Region

See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: The Conservancy / Moncure A	ssemblage	City/County: Chatham		_Sampling Date:	10/06/2020
Applicant/Owner: The Conservancy Rea	l Estate Group, LLC		State: NC	Sampling Point:	WDG2
Investigator(s): K. Hamlin/P.Beach		Section, Township, Range:	Cape Fear Township	_	
Landform (hillside, terrace, etc.): hillside	Lo	cal relief (concave, convex,		Slope (%):	0.5
Subregion (LRR or MLRA): LRR P, MLRA 1	•		79.0351		NAD83
Soil Map Unit Name: CrB—Creedmoor-Gree			NWI classificat		147 1200
					- \
Are climatic / hydrologic conditions on the site	**			explain in Remark	
Are Vegetation, Soil, or Hydro			ircumstances" present?		. No
Are Vegetation, Soil, or Hydro	logynaturally probl	ematic? (If needed, exp	olain any answers in Re	emarks.)	
SUMMARY OF FINDINGS – Attach	site map showing	sampling point location	ons, transects, im	portant featu	res, 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:					
Per Antecedent Precipitation Tool - Normal	conditions				
·					
HYDROLOGY					
Wetland Hydrology Indicators:			Secondary Indicators	(minimum of two	required)
Primary Indicators (minimum of one is required	red; check all that apply)		Surface Soil Crac	ks (B6)	
Surface Water (A1)	True Aquatic Plants		Sparsely Vegetate		ce (B8)
High Water Table (A2)	Hydrogen Sulfide Od		X Drainage Patterns		
X Saturation (A3)		res on Living Roots (C3)	Moss Trim Lines (
Water Marks (B1)	Presence of Reduce		Dry-Season Wate		
Sediment Deposits (B2)		on in Tilled Soils (C6)	Crayfish Burrows		(0.0)
X Drift Deposits (B3)	Thin Muck Surface (Saturation Visible		/ (C9)
Algal Mat or Crust (B4)	Other (Explain in Re	marks)	Stunted or Stress		
Iron Deposits (B5)	7\		Geomorphic Posit Shallow Aquitard		
Inundation Visible on Aerial Imagery (B7 Water-Stained Leaves (B9)	()		Microtopographic	` '	
Aquatic Fauna (B13)			FAC-Neutral Test		
Field Observations:		<u> </u>		(50)	
Surface Water Present? Yes	No X Depth (inch	oc).			
	No X Depth (inch				
Saturation Present? Yes X	No Depth (inch		Hydrology Present?	Yes X	No
(includes capillary fringe)			,	<u>//</u>	
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos	s, previous inspections), if a	vailable:		
, , ,					
Remarks:					

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: WDG2 Absolute Dominant Indicator Tree Stratum (Plot size: 30' % Cover Species? Status **Dominance Test worksheet:** 1. Pinus taeda 40 Yes FAC **Number of Dominant Species** 2. That Are OBL, FACW, or FAC: (A) 3. **Total Number of Dominant** 10 Species Across All Strata: 4. (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 70.0% (A/B) Prevalence Index worksheet: 40 =Total Cover Total % Cover of: 50% of total cover: 20 20% of total cover: **OBL** species x 1 = **FACW** species 0 Sapling/Shrub Stratum (Plot size: x 2 =72 x 3 = Ulmus alata 15 **FACU** FAC species 216 1. Yes 10 27 Acer rubrum Yes FAC **FACU** species x 4 = 108 2. 10 Yes FAC 0 x 5 = 0 3. Liquidambar styraciflua UPL species 5 No **FACU** 104 4. llex opaca Column Totals: 329 (A) (B) 5. Prevalence Index = B/A = 3.16 6. **Hydrophytic Vegetation Indicators:** 7. 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% 8. 3 - Prevalence Index is ≤3.01 9. 4 - Morphological Adaptations¹ (Provide supporting =Total Cover data in Remarks or on a separate sheet) 50% of total cover: 20% of total cover: Herb Stratum (Plot size: Problematic Hydrophytic Vegetation¹ (Explain) Callicarpa dichotoma OBL 1. Yes ¹Indicators of hydric soil and wetland hydrology must be 2. Gelsemium sempervirens 2 Yes FAC present, unless disturbed or problematic. 3. Lonicera japonica 2 Yes **FACU Definitions of Four Vegetation Strata:** 4. Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of 5. height. 6. 7. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft 8. (1 m) tall. 10. Herb - All herbaceous (non-woody) plants, regardless 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: 5 20% of total cover: Woody Vine Stratum (Plot size: 15' Smilax rotundifolia Yes **FACU** 2. Vitis rotundifolia 5 Yes FAC 3. Toxicodendron radicans 5 Yes FAC 4. 5. Hydrophytic 15 =Total Cover Vegetation 50% of total cover: 20% of total cover: Present? Yes X No Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: WDG2

	ription: (Describe t	o the de		ıment t x Featu		ator or c	onfirm the absence	e of indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	% reatu	Type ¹	Loc ²	Texture	Remarks
0-6	7.5YR 5/2	95	7.5YR 5/8	5	C	PL	Loamy/Clayey	Remains
6-14	7.5YR 5/3	90	7.5YR 5/8	10	С	PL	Loamy/Clayey	Prominent redox concentrations
¹Type: C=Co	oncentration, D=Deplo	etion, RM	=Reduced Matrix, N	- 1S=Mas	ked San	d Grains.		on: PL=Pore Lining, M=Matrix. licators for Problematic Hydric Soils ³ :
Histosol (Polyvalue Be	elow Su	rface (S8) (MLRA		2 cm Muck (A10) (MLRA 147)
	ipedon (A2)		Thin Dark Su					Coast Prairie Redox (A16)
Black His	. , ,		Loamy Muck					(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye				•	Piedmont Floodplain Soils (F19)
Stratified	Layers (A5)		X Depleted Ma					(MLRA 136, 147)
2 cm Mu	ck (A10) (LRR N)		Redox Dark	Surface	(F6)			Red Parent Material (F21)
Depleted	Below Dark Surface	(A11)	Depleted Da					(outside MLRA 127, 147, 148)
	rk Surface (A12)		Redox Depre					Very Shallow Dark Surface (F22)
	ucky Mineral (S1)		Iron-Mangan		sses (F1	2) (LRR I	N,	Other (Explain in Remarks)
	leyed Matrix (S4)		MLRA 136	•	O) (MIL D A	400 40	31	diantara of hduamb. dia matatian and
	edox (S5) Matrix (S6)		Umbric Surfa Piedmont Flo				-	dicators of hydrophytic vegetation and wetland hydrology must be present,
	face (S7)		Red Parent I					unless disturbed or problematic.
	.ayer (if observed):			viatoriai	(1 2 1) (111		, 147, 140,	unioss distarsed of problematic.
Type:	, (0.000.100.,1							
Depth (in	ches):						Hydric Soil Pres	sent? Yes X No
Remarks:							•	

WETLAND DETERMINATION DATA SHEET – Eastern Mountains and Piedmont Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: The Conservancy / Moncure /	Assemblage	City/County: Chatham		Sampling Date:	10/06/2020
Applicant/Owner: The Conservancy Rea	al Estate Group, LLC		State: NC	Sampling Point:	DP WG1
Investigator(s): D. Gainey		Section, Township, Range: C	ape Fear Township	_	
Landform (hillside, terrace, etc.): floodplair	n Lo	cal relief (concave, convex, no	ne): concave	Slope (%):	0.5
Subregion (LRR or MLRA): LRR P, MLRA		Long: -78.	· ·	Datum:	NAD83
Soil Map Unit Name: CrC—Creedmoor-Gre	en Level complex, 6 to 10		NWI classificat	tion:	
Are climatic / hydrologic conditions on the sit	·	•		explain in Remark	s.)
Are Vegetation, Soil, or Hydro			umstances" present?		
Are Vegetation , Soil , or Hydro	<u> </u>		in any answers in Re		
SUMMARY OF FINDINGS – Attach			•	,	res, 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_X_	No	
Per Antecedent Precipitation Tool - Normal HYDROLOGY	conditions				
Wetland Hydrology Indicators:		<u>S</u>	econdary Indicators	(minimum of two	required)
Primary Indicators (minimum of one is requ	ired; check all that apply)		Surface Soil Crac	ks (B6)	
Surface Water (A1)	True Aquatic Plants	(B14)	Sparsely Vegetate	ed Concave Surfa	ce (B8)
X High Water Table (A2)	Hydrogen Sulfide Oc		X Drainage Patterns		
Saturation (A3)	X Oxidized Rhizospher	_	Moss Trim Lines (
Water Marks (B1)	Presence of Reduce	_	Dry-Season Wate		
Sediment Deposits (B2) Drift Deposits (B3)	Thin Muck Surface (on in Tilled Soils (C6)	Crayfish Burrows Saturation Visible		, (Ca)
Algal Mat or Crust (B4)	Other (Explain in Re	_	Stunted or Stresse		r (C3)
Iron Deposits (B5)	Other (Explain in No		Geomorphic Posit	` '	
Inundation Visible on Aerial Imagery (B	7)		Shallow Aquitard		
Water-Stained Leaves (B9)	,	_	 Microtopographic		
Aquatic Fauna (B13)			X FAC-Neutral Test	(D5)	
Field Observations:					
Surface Water Present? Yes	No X Depth (inch				
Water Table Present? Yes X	No Depth (inch				
Saturation Present? Yes	No X Depth (inch	es): Wetland Hy	drology Present?	Yes X	No
(includes capillary fringe) Describe Recorded Data (stream gauge, m	onitoring well perial photos	nravious inspections) if avail	able:		
Describe Recorded Data (Stream gauge, in	orinoring well, aerial priolos	s, previous irispections), ir avair	able.		
Remarks:					

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: DP WG1 Absolute Dominant Indicator Tree Stratum (Plot size: 30') % Cover Species? Status **Dominance Test worksheet:** 1. Pinus taeda 40 Yes FAC **Number of Dominant Species** 2. That Are OBL, FACW, or FAC: (A) 3. **Total Number of Dominant** Species Across All Strata: 4. 3 (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 66.7% (A/B) Prevalence Index worksheet: 40 =Total Cover Total % Cover of: 20 x 1 = 50% of total cover: 20% of total cover: **OBL** species Sapling/Shrub Stratum (Plot size: 30' **FACW** species x 2 =40 **FAC** species x 3 = 120 **FACU** species 0 2. x 4 = 3. UPL species 0 x 5 = 0 80 Column Totals: (A) 200 4. (B) 5. Prevalence Index = B/A = 6. **Hydrophytic Vegetation Indicators:** 1 - Rapid Test for Hydrophytic Vegetation 7. 8. X 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting =Total Cover data in Remarks or on a separate sheet) 50% of total cover: 20% of total cover: Herb Stratum (Plot size: Problematic Hydrophytic Vegetation¹ (Explain) Scirpus sp. 30 Yes ¹Indicators of hydric soil and wetland hydrology must be 2. Osmundastrum cinnamomeum Yes **FACW** present, unless disturbed or problematic. 3. **Definitions of Four Vegetation Strata:** 4. Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of 5. height. 6. 7. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft 8. (1 m) tall. 10. Herb - All herbaceous (non-woody) plants, regardless 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: Woody Vine Stratum (Plot size: 15') 2. 3. Hydrophytic =Total Cover Vegetation 50% of total cover: 20% of total cover: Present? Yes X No Remarks: (Include photo numbers here or on a separate sheet.) Sphagnum moss present

SOIL Sampling Point: DP WG1

Profile Desc Depth	ription: (Describe t Matrix	o the de		ıment tl x Featur		ator or co	onfirm the absence o	of indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-4	10YR 4/4	90	10YR 6/6	10	C	PL	Loamy/Clayey	
4-12	10YR 4/2	90	10YR 6/6	10	С	PL	Loamy/Clayey	Prominent redox concentrations
4-12	10114/2	90	10110/0	10		<u></u>	Loamy/Clayey	Frominent redox concentrations
¹Type: C=Co	oncentration, D=Depl	etion. RM	 l=Reduced Matrix. N	 IS=Mas	ked Sand	Grains.	2Location	: PL=Pore Lining, M=Matrix.
Hydric Soil I		o,	. Hoddod mann, n			2 0.4		ators for Problematic Hydric Soils ³ :
Histosol			Polyvalue Be	elow Sur	face (S8) (MLRA		cm Muck (A10) (MLRA 147)
Histic Ep	pipedon (A2)		Thin Dark Su	urface (S	9) (MLR	A 147, 1	48) (Coast Prairie Redox (A16)
Black His	stic (A3)		Loamy Muck	y Minera	al (F1) (N	/ILRA 136	<u> </u>	(MLRA 147, 148)
Hydroge	n Sulfide (A4)		Loamy Gleye	ed Matrix	x (F2)		F	Piedmont Floodplain Soils (F19)
Stratified	I Layers (A5)		X Depleted Ma					(MLRA 136, 147)
	ck (A10) (LRR N)		Redox Dark	Surface	(F6)		F	Red Parent Material (F21)
	Below Dark Surface	(A11)	Depleted Da	rk Surfa	ce (F7)			(outside MLRA 127, 147, 148)
	rk Surface (A12)		Redox Depre					ery Shallow Dark Surface (F22)
	lucky Mineral (S1)		Iron-Mangan		sses (F1	2) (LRR N	, (Other (Explain in Remarks)
	leyed Matrix (S4)		MLRA 136	-			2	
	edox (S5)		Umbric Surfa					cators of hydrophytic vegetation and
	Matrix (S6)		Piedmont Flo					vetland hydrology must be present,
	face (S7)		Red Parent I	viateriai	(F21) (IV	LRA 127	, 147, 148) u	inless disturbed or problematic.
	_ayer (if observed):							
Type: Depth (ir	ochoc).						Hydric Soil Prese	nt? Yes X No
							Hydric 3011 Frese	iit: 1es NO
Remarks:								

WETLAND DETERMINATION DATA SHEET – Eastern Mountains and Piedmont Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: The Conservancy / Moncure A	ssemblage	City/County: Chatham		_Sampling Date:	10/06/2020		
Applicant/Owner: The Conservancy Real	l Estate Group, LLC		State: NC	- Sampling Point:	DP WG2		
Investigator(s): D. Gainey		Section, Township, Range:	Cape Fear Township	_			
Landform (hillside, terrace, etc.): terrace	Lo	cal relief (concave, convex,		Slope (%):	0.5		
Subregion (LRR or MLRA): LRR P, MLRA 1			78.9924		NAD83		
Soil Map Unit Name: CrC—Creedmoor-Gree			NWI classifica		1171200		
					- \		
Are climatic / hydrologic conditions on the site	,,			explain in Remark			
Are Vegetation, Soil, or Hydro	· · · · · · · · · · · · · · · · · · ·		ircumstances" present?		No		
Are Vegetation, Soil, or Hydro	logynaturally probl	ematic? (If needed, exp	olain any answers in Re	emarks.)			
SUMMARY OF FINDINGS – Attach	site map showing	sampling point location	ons, transects, im	portant featu	res, etc.		
Hydrophytic Vegetation Present?	Yes No X	Is the Sampled Area					
Hydric Soil Present?	Yes No X	within a Wetland?	Yes	No X			
Wetland Hydrology Present?	Yes No X						
Remarks:							
Per Antecedent Precipitation Tool - Normal of	conditions						
HYDROLOGY							
Wetland Hydrology Indicators:			Secondary Indicators	(minimum of two	required)		
Primary Indicators (minimum of one is required)	red; check all that apply)		Surface Soil Crac				
Surface Water (A1)	True Aquatic Plants		Sparsely Vegetate		.ce (B8)		
High Water Table (A2)	Hydrogen Sulfide Od		Drainage Patterns (B10)				
Saturation (A3)		res on Living Roots (C3)	Moss Trim Lines (B16)				
Water Marks (B1)	Presence of Reduce		Dry-Season Water Table (C2)				
Sediment Deposits (B2)		on in Tilled Soils (C6)	Crayfish Burrows (C8)				
Drift Deposits (B3)	Thin Muck Surface (Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	Other (Explain in Re	marks)	Stunted or Stress				
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7	7)		Geomorphic Posit Shallow Aquitard				
Water-Stained Leaves (B9))		Microtopographic				
Aquatic Fauna (B13)			FAC-Neutral Test	` '			
Field Observations:		<u> </u>		(50)			
Surface Water Present? Yes	No X Depth (inch	oc).					
Water Table Present? Yes	No X Depth (inch						
Saturation Present? Yes	No X Depth (inch		Hydrology Present?	Yes	No X		
(includes capillary fringe)	No X Dopan (mon	- Victiana	Tydrology i resent.	100	. NO		
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos	s, previous inspections), if a	/ailable:				
, J	5 , 1	,,					
Remarks:							

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: DP WG2 Absolute Dominant Indicator Species? Tree Stratum (Plot size: 30' % Cover Status **Dominance Test worksheet:** 1. Pinus taeda 40 Yes FAC **Number of Dominant Species** 2. Liquidambar styraciflua 20 Yes FAC That Are OBL, FACW, or FAC: (A) 3. **Total Number of Dominant** 4. Species Across All Strata: (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 50.0% (A/B) Prevalence Index worksheet: 60 =Total Cover Total % Cover of: 50% of total cover: 30 20% of total cover: **OBL** species 0 ___ x 1 = **FACW** species Sapling/Shrub Stratum (Plot size: 30' x 2 =llex opaca **FACU FAC** species 60 x 3 = 1. **FACU** species 10 2. x 4 = 3. UPL species 0 x 5 = 0 70 4. Column Totals: (A) 220 (B) 5. Prevalence Index = B/A = 6. **Hydrophytic Vegetation Indicators:** 1 - Rapid Test for Hydrophytic Vegetation 7. 2 - Dominance Test is >50% 8. 3 - Prevalence Index is ≤3.01 4 - Morphological Adaptations¹ (Provide supporting 10 =Total Cover data in Remarks or on a separate sheet) 50% of total cover: ___ 5 20% of total cover: Herb Stratum (Plot size: 5') Problematic Hydrophytic Vegetation¹ (Explain) Carex sp. ¹Indicators 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 more in diameter at breast height (DBH), regardless of 5. height. 6. 7. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft 8. (1 m) tall. 10. Herb - All herbaceous (non-woody) plants, regardless 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: 3 20% of total cover: Woody Vine Stratum (Plot size: 15') 2. 3. Hydrophytic =Total Cover Vegetation 50% of total cover: 20% of total cover: Present? No X Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: DP WG2

	ription: (Describe t	o the de				tor or co	onfirm the al	bsence of in	dicators.)		
Depth	Matrix	0/		k Featu		12	T4	_	Dan		
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Textur		Ken	narks	
0-3	10YR 4/3	100					Loamy/Cl	ayey			
3-12	10YR 4/4	100					Loamy/Cl	ayey			
¹Type: C=Co	oncentration, D=Depl	etion, RM	=Reduced Matrix, N	1S=Mas	ked Sand	Grains.	2	Location: PL	=Pore Lining, I	M=Matrix.	
Hydric Soil I	ndicators:							Indicator	s for Problem	atic Hydric S	oils³:
Histosol			Polyvalue Be			-	-		Muck (A10) (M	-	
Histic Ep	ipedon (A2)		Thin Dark Su	ırface (S	S9) (MLR	A 147, 14	48)	Coas	Prairie Redox	(A16)	
Black His			Loamy Muck			ILRA 136	6)	(ML	.RA 147, 148)		
	n Sulfide (A4)		Loamy Gleye					Piedn	nont Floodplair	Soils (F19)	
	Layers (A5)		Depleted Ma					-	.RA 136, 147)		
	ck (A10) (LRR N)		Redox Dark						Parent Material		
	Below Dark Surface	(A11)	Depleted Da					•	tside MLRA 1		
	rk Surface (A12)		Redox Depre						Shallow Dark S		
	ucky Mineral (S1)		Iron-Mangan		sses (F12	(LKK I	١,	Other	(Explain in Re	marks)	
	leyed Matrix (S4)		MLRA 136	•	2) /MI D A	400 400	•1	3Indiantor	s of hydrophyti	a vacatation a	. n d
	edox (S5) Matrix (S6)		Umbric Surfa Piedmont Flo				-		nd hydrology m	-	
	face (S7)		Red Parent I				-		s disturbed or p		iii,
	_ayer (if observed):			viatoriai	(1 2 1) (111		, 147, 140)	411100	o disturbed or p	orobicinatio.	
Type:	ayo. (ii oboo. rou).										
Depth (in	nches):						Hydric Sc	oil Present?	Yes	No X	
Remarks:									-		_
· · · · · · · · · · · · · · · · · · ·											

WETLAND DETERMINATION DATA SHEET – Eastern Mountains and Piedmont Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: The Conservancy / Moncure	Assemblage	City/County: Chatham		Sampling Date:	10/06/2020		
Applicant/Owner: The Conservancy Re	al Estate Group, LLC		State: NC	Sampling Point:	DP WIA1		
Investigator(s): K. Hamlin/P. Beach		Section, Township, Range: C	ape Fear Township	_			
Landform (hillside, terrace, etc.): terrace	Lo	cal relief (concave, convex, nor		Slope (%):	0		
Subregion (LRR or MLRA): LRR P, MLRA	_	Long: -79.		Datum:	NAD83		
Soil Map Unit Name: CrC—Creedmoor-Gre			NWI classificat				
Are climatic / hydrologic conditions on the si	•			explain in Remark	<u> </u>		
			' '				
Are Vegetation, Soil, or Hydr	·		umstances" present?		. NO		
Are Vegetation, Soil, or Hydr	<u> </u>		n any answers in Re				
SUMMARY OF FINDINGS – Attack	h site map showing s	sampling point location	s, transects, im	portant featu	res, 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: Per Antecedent Precipitation Tool - Normal	conditions						
HYDROLOGY							
Wetland Hydrology Indicators:		<u>S</u>	econdary Indicators	•	equired)		
Primary Indicators (minimum of one is requ			Surface Soil Crack	` '	4 = - >		
Surface Water (A1)	True Aquatic Plants	-	Sparsely Vegetated Concave Surface (B8)				
High Water Table (A2) Saturation (A3)	Hydrogen Sulfide Od		Drainage Patterns (B10)				
Water Marks (B1)	Presence of Reduce	eres on Living Roots (C3) Moss Trim Lines (B16) ped Iron (C4) Dry-Season Water Table (C2)					
Sediment Deposits (B2)		on in Tilled Soils (C6)	Crayfish Burrows				
X Drift Deposits (B3)	Thin Muck Surface (Saturation Visible		y (C9)		
Algal Mat or Crust (B4)	Other (Explain in Re	marks)					
Iron Deposits (B5)		<u> </u>	Geomorphic Posit	tion (D2)			
Inundation Visible on Aerial Imagery (E	37)	Shallow Aquitard (D3)					
X Water-Stained Leaves (B9)		_	Microtopographic	· ·			
Aquatic Fauna (B13)			FAC-Neutral Test	(D5)			
Field Observations:							
Surface Water Present? Yes	No X Depth (inch						
Water Table Present? Yes	No X Depth (inch		duala es a Duana es 40	V V	N.		
Saturation Present? Yes X includes capillary fringe)	No Depth (inch	es): 2 Wetland Hyd	drology Present?	Yes X	NO		
Describe Recorded Data (stream gauge, m	onitoring well, aerial photos	s. previous inspections), if avail	able:				
(3 3 7		71 1 77					
Remarks:							

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

	Absolute	Dominant	Indicator	
<u>Tree Stratum</u> (Plot size:)	% Cover	Species?	Status	Dominance Test worksheet:
1. Pinus taeda	30	Yes	FAC	Number of Dominant Species
2. Ulmus rubra	10	Yes	FAC	That Are OBL, FACW, or FAC:7 (A)
3				Total Number of Dominant
4.				Species Across All Strata: 9 (B)
5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: 77.8% (A/B)
7				Prevalence Index worksheet:
	40	=Total Cover		Total % Cover of: Multiply by:
50% of total cover: 2	20%	of total cover:	8	OBL species 0 x 1 = 0
Sapling/Shrub Stratum (Plot size: 30'))			FACW species 5 x 2 = 10
1. Acer rubrum	30	Yes	FAC	FAC species 110 x 3 = 330
2. Liquidambar styraciflua	10	No	FAC	FACU species12 x 4 =48
3. Pinus taeda	20	Yes	FAC	UPL species 10 x 5 = 50
4. Oxydendrum arboreum	10	No	UPL	Column Totals: 137 (A) 438 (B)
5				Prevalence Index = B/A = 3.20
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 ¹
	70	=Total Cover		4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover: 3	35 20%	of total cover:	14	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5')				Problematic Hydrophytic Vegetation ¹ (Explain)
Vitis rotundifolia	5	Yes	FAC	¹ Indicators of hydric soil and wetland hydrology must be
2. Boehmeria cylindrica	5	Yes	FACW	present, unless disturbed or problematic.
3. Lonicera japonica	5	Yes	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.				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.
	15	=Total Cover		Woody Vine – All woody vines greater than 3.28 ft in
50% of total cover:		of total cover:	3	height.
Woody Vine Stratum (Plot size: 15')	2070	or total cover.		
Smilax rotundifolia	5	Yes	FACU	
Vitis rotundifolia	5	Yes	FAC	
3. Lonicera japonica	2	No	FACU	
			TACO	
4				
5	10	Total Cover		Hydrophytic
500/ of total account		=Total Cover	0	Vegetation
50% of total cover:	6 20%	of total cover:	3	Present?
Remarks: (Include photo numbers here or on a sepa	arate sheet.)			

Sampling Point: DP WIA1

SOIL Sampling Point: DP WIA1

	ription: (Describe t	o the de				ator or c	onfirm the absence	of indicators.)
Depth	Matrix	0/		x Featur		12	T	Damadia
(inches) 0-2	Color (moist)	100	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
<u> </u>	7.5YR 3/2	100					Loamy/Clayey	
2-12	10YR 5/2	90	7.5YR 5/8	10	<u>C</u>	PL	Loamy/Clayey	Prominent redox concentrations
	oncentration, D=Deple	etion, RM	=Reduced Matrix, N	1S=Mas	ked Sand	d Grains.		n: PL=Pore Lining, M=Matrix.
Hydric Soil I								cators for Problematic Hydric Soils ³ :
Histosol (Polyvalue Be			-		2 cm Muck (A10) (MLRA 147)
	ipedon (A2)		Thin Dark Su					Coast Prairie Redox (A16)
Black His	n Sulfide (A4)		Loamy Muck	•	. , .	ILKA 13	•	(MLRA 147, 148) Piedmont Floodplain Soils (F19)
	Layers (A5)		X Depleted Ma					(MLRA 136, 147)
	ck (A10) (LRR N)		Redox Dark					Red Parent Material (F21)
	Below Dark Surface	(A11)	Depleted Da					(outside MLRA 127, 147, 148)
	rk Surface (A12)	()	Redox Depre				,	Very Shallow Dark Surface (F22)
	ucky Mineral (S1)		Iron-Mangan			2) (LRR I		Other (Explain in Remarks)
	leyed Matrix (S4)		MLRA 136					
Sandy Re	edox (S5)		Umbric Surfa	ace (F13	B) (MLRA	122, 13	3 Indi	cators of hydrophytic vegetation and
Stripped	Matrix (S6)		Piedmont Flo	oodplair	Soils (F	19) (MLR	A 148)	wetland hydrology must be present,
Dark Sur	face (S7)		Red Parent I	Material	(F21) (M	LRA 127	⁷ , 147, 148)	unless disturbed or problematic.
Restrictive L	ayer (if observed):							
Type:								
Depth (in	iches):						Hydric Soil Prese	ent? Yes X No
Remarks:								

WETLAND DETERMINATION DATA SHEET – Eastern Mountains and Piedmont Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: The Conservancy / Moncure A	ssemblage	City/County: Chatham		Sampling Date:	10/06/2020		
Applicant/Owner: The Conservancy Rea	l Estate Group, LLC		State: NC	- Sampling Point:	DP WIA2		
Investigator(s): K. Hamlin/P. Beach		Section, Township, Range:	Cape Fear Township	_			
Landform (hillside, terrace, etc.): terrace	Lo	cal relief (concave, convex,		Slope (%):	0		
Subregion (LRR or MLRA): LRR P, MLRA 1			79.0052	Datum:			
Soil Map Unit Name: CrC—Creedmoor-Gree			NWI classifica		14/1200		
·					-)		
Are climatic / hydrologic conditions on the site	,,			explain in Remark			
Are Vegetation, Soil, or Hydro			ircumstances" present?		No		
Are Vegetation, Soil, or Hydro	logynaturally probl	ematic? (If needed, exp	olain any answers in Re	emarks.)			
SUMMARY OF FINDINGS – Attach	site map showing s	sampling point location	ons, transects, im	portant featu	res, etc.		
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled Area					
Hydric Soil Present?	Yes No X	within a Wetland?	Yes	No X			
Wetland Hydrology Present?	Yes No X						
Remarks:							
Per Antecedent Precipitation Tool - Normal	conditions						
•							
HYDROLOGY							
Wetland Hydrology Indicators:			Secondary Indicators	(minimum of two	required)		
Primary Indicators (minimum of one is required	red; check all that apply)		Surface Soil Crac				
Surface Water (A1)	True Aquatic Plants		Sparsely Vegetate		ce (B8)		
High Water Table (A2)	Hydrogen Sulfide Oc		Drainage Patterns (B10)				
Saturation (A3)		res on Living Roots (C3)	Moss Trim Lines (B16)				
Water Marks (B1)	Presence of Reduce		Dry-Season Water Table (C2)				
Sediment Deposits (B2)		on in Tilled Soils (C6)	Crayfish Burrows (C8)				
Drift Deposits (B3)	Thin Muck Surface (Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	Other (Explain in Re	marks)	Stunted or Stress				
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7	7)		Geomorphic Posit Shallow Aquitard				
Water-Stained Leaves (B9))		Microtopographic				
Aquatic Fauna (B13)			FAC-Neutral Test	` '			
Field Observations:				(23)			
Surface Water Present? Yes	No X Depth (inch	es).					
Water Table Present? Yes	No X Depth (inch						
Saturation Present? Yes	No X Depth (inch		Hydrology Present?	Yes	No X		
(includes capillary fringe)			,				
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos	s, previous inspections), if av	/ailable:				
Remarks:							

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

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
	30	Species?	FAC	
	10	Yes Yes	FAC	Number of Dominant Species That Are OBL. FACW. or FAC: 5 (A)
=- 4	10	res	FAC	(
3.				Total Number of Dominant
4.				Species Across All Strata: 7 (B)
5.				Percent of Dominant Species
6.				That Are OBL, FACW, or FAC: 71.4% (A/B)
7				Prevalence Index worksheet:
		=Total Cover	_	Total % Cover of: Multiply by:
50% of total cover: 2	0 20%	of total cover:	8	OBL species 0 x1 = 0
Sapling/Shrub Stratum (Plot size: 30')				FACW species 0 x 2 = 0
1. Ulmus alata	20	Yes	FACU	FAC species60 x 3 =180
2. Liquidambar styraciflua	10	Yes	FAC	FACU species 27 x 4 = 108
3				UPL species 0 x 5 = 0
4				Column Totals: 87 (A) 288 (B)
5				Prevalence Index = B/A = 3.31
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 ¹
	30	=Total Cover		4 - Morphological Adaptations (Provide supporting
50% of total cover: 1	5 20%	of total cover:	6	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5')	<u></u>			Problematic Hydrophytic Vegetation ¹ (Explain)
1. Vitis 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:
3. 4.				
				Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
4.				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4. 5.				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
4. 5. 6.				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
4. 5. 6. 7. 8.				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less
4. 5. 6. 7. 8. 9.				 Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
4. 5. 6. 7. 8. 9. 10.				 Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft
4. 5. 6. 7. 8. 9.		-Total Cover		 Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
4. 5. 6. 7. 8. 9. 10. 11.		=Total Cover		 Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless
4.		=Total Cover	1	 Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (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
4.	20%	of total cover:		 Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (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
4.	20%	of total cover:	FACU	 Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (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
4.	5 5 5	of total cover: Yes Yes	FACU FAC	 Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (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
4.	20%	of total cover:	FACU	 Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (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
4.	5 5 5	of total cover: Yes Yes	FACU FAC	 Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (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
4.	5 5 2	Yes Yes No	FACU FAC	 Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (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
4.	5 5 2 —————————————————————————————————	Yes Yes No Total Cover	FACU FAC FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (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.
4.	5 5 2 —————————————————————————————————	Yes Yes No	FACU FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (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.
4.	5 5 2 12 2 20%	Yes Yes No Total Cover	FACU FAC FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (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.

DP WIA2

SOIL Sampling Point: DP WIA2

	-	to the de	pth needed to docu			ator or co	onfirm the absen	ce of indic	ators.)		
Depth	Matrix			Featur		. 2			_		
(inches)	Color (moist)	<u>%</u>	Color (moist)		Type ¹	Loc ²	Texture		Ren	narks	
0-2	7.5YR 3/3	100					Loamy/Clayey				
2-6	7.5YR 4/3	100					Loamy/Clayey	_			
6-14	7.5YR 5/3	95	7.5YR 5/8	5	C	PL	Loamy/Clayey Prominent redox concentra				
¹ Type: C=Co	ncentration, D=Depl	etion, RM	=Reduced Matrix, M	IS=Mas	ked Sand	Grains.	² Locat	ion: PL=P	ore Lining, N	Л=Matrix.	
Hydric Soil Ir	ndicators:						In	dicators f	or Problem	atic Hydric Soils ³ :	
Histosol (A1)		Polyvalue Be	low Sur	rface (S8)	(MLRA	147, 148) <u> </u>	2 cm Mu	uck (A10) (M	LRA 147)	
Histic Epi	pedon (A2)		Thin Dark Su	rface (S	9) (MLR	A 147, 1	48)	Coast P	rairie Redox	(A16)	
Black His	tic (A3)		Loamy Muck	y Miner	al (F1) (N	ILRA 130	<u> </u>	(MLR	A 147, 148)		
Hydrogen	Sulfide (A4)		Loamy Gleye	d Matri	x (F2)			Piedmoi	nt Floodplair	Soils (F19)	
Stratified	Layers (A5)		Depleted Ma	trix (F3)			_	(MLR	A 136, 147)		
	k (A10) (LRR N)		Redox Dark S					Red Par	ent Material	(F21)	
	Below Dark Surface	e (A11)	Depleted Dar				_			27, 147, 148)	
	k Surface (A12)	` ,	Redox Depre					-		Surface (F22)	
	ıcky Mineral (S1)		Iron-Mangan			2) (LRR I			Explain in Re		
	eyed Matrix (S4)		MLRA 136				_	_ `		,	
Sandy Re			Umbric Surfa	.ce (F13	B) (MLRA	122, 136	6) ³ lr	ndicators o	f hydrophytic	c vegetation and	
	Matrix (S6)		Piedmont Flo				-			iust be present,	
Dark Surf			Red Parent N				-		listurbed or p		
Restrictive La	ayer (if observed):										
Type:											
Depth (inc	ches):						Hydric Soil Pro	esent?	Yes	NoX	
Remarks:											

WETLAND DETERMINATION DATA SHEET – Eastern Mountains and Piedmont Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: The Conservancy / Moncure A	ssemblage	City/County: Chatham		Sampling Date:	10/06/2020	
Applicant/Owner: The Conservancy Rea	l Estate Group, LLC		State: NC	Sampling Point:	DP WIB1	
Investigator(s): K. Hamlin/ P. Beach		Section, Township, Range:	Cape Fear Township	_		
Landform (hillside, terrace, etc.): terrace	Lo	cal relief (concave, convex,		Slope (%):	0.5	
Subregion (LRR or MLRA): LRR P, MLRA 1			79.0047		NAD83	
,					IVADOS	
Soil Map Unit Name: CrC—Creedmoor-Gree			NWI classificat			
Are climatic / hydrologic conditions on the site				explain in Remark		
Are Vegetation, Soil, or Hydro	logysignificantly di	sturbed? Are "Normal C	ircumstances" present?	Yes X	No	
Are Vegetation, Soil, or Hydro	logynaturally probl	ematic? (If needed, exp	olain any answers in Re	marks.)		
SUMMARY OF FINDINGS – Attach	site map showing	sampling point location	ons, transects, im	portant featu	res, 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:						
Per Antecedent Precipitation Tool - Normal	conditions					
·						
HYDROLOGY						
Wetland Hydrology Indicators:			Secondary Indicators	(minimum of two	required)	
Primary Indicators (minimum of one is requi			Surface Soil Crack			
Surface Water (A1)	True Aquatic Plants		Sparsely Vegetated Concave Surface (B8)			
High Water Table (A2)	Hydrogen Sulfide Od		X Drainage Patterns (B10)			
Saturation (A3)		res on Living Roots (C3)	Moss Trim Lines (
Water Marks (B1)	Presence of Reduce		Dry-Season Wate			
Sediment Deposits (B2)		on in Tilled Soils (C6)	Crayfish Burrows		. (00)	
X Drift Deposits (B3)	Thin Muck Surface (<u>—</u>				
Algal Mat or Crust (B4) Iron Deposits (B5)	Other (Explain in Re	marks)	Geomorphic Posit			
Inundation Visible on Aerial Imagery (B	7)		Shallow Aquitard			
X Water-Stained Leaves (B9)	,		Microtopographic	` '		
Aquatic Fauna (B13)			FAC-Neutral Test	. ,		
Field Observations:						
Surface Water Present? Yes	No X Depth (inch	es):				
Water Table Present? Yes	No X Depth (inch					
Saturation Present? Yes	No X Depth (inch		Hydrology Present?	Yes X	No	
(includes capillary fringe)	<u> </u>					
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos	s, previous inspections), if av	vailable:			
Remarks:						

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

<u>Tree Stratum</u> (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Pinus taeda	30	Yes	FAC	
2. Ulmus rubra	15	Yes	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: 7 (A)
				That Are OBL, FACW, or FAC: 7 (A)
3. Liquidambar styraciflua	10	No	FAC	Total Number of Dominant
4				Species Across All Strata: 9 (B)
5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: 77.8% (A/B)
7				Prevalence Index worksheet:
	55 :	=Total Cover		Total % Cover of: Multiply by:
	8 20%	of total cover:	11	OBL species 0 x 1 = 0
Sapling/Shrub Stratum (Plot size:)				FACW species 0 x 2 = 0
Liquidambar styraciflua	15	Yes	FAC	FAC species 110 x 3 = 330
2. Acer rubrum	15	Yes	FAC	FACU species 5 x 4 = 20
3. Quercus nigra	10	Yes	FAC	UPL species 0 x 5 = 0
4.				Column Totals: 115 (A) 350 (B)
5.				Prevalence Index = B/A = 3.04
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 ¹
	40 =	=Total Cover		4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover: 2		of total cover:	8	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5')		0. 1010. 0070		Problematic Hydrophytic Vegetation ¹ (Explain)
Microstegium vimineum	5	Yes	FAC	1.
2. Carex sp.	5	Yes		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3.		103		Definitions of Four Vegetation Strata:
4.				
5.				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
·				height.
6.				
7				Sapling/Shrub – Woody plants, excluding vines, less
8				than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
9				, ,
10				Herb – All herbaceous (non-woody) plants, regardless
11				of size, and woody plants less than 3.28 ft tall.
	10 :	=Total Cover		Woody Vine – All woody vines greater than 3.28 ft in
50% of total cover:	20%	of total cover:	2	height.
Woody Vine Stratum (Plot size:)				
1. Toxicodendron radicans	5	Yes	FACU	
2. Smilax rotundifolia	10	Yes	FAC	
3.				
4.				
5.				
	15 :	=Total Cover		Hydrophytic Vegetation
50% of total cover:		of total cover:	3	Present? Yes X No
Remarks: (Include photo numbers here or on a sepa	rate sheet.)			

Sampling Point:

DP WIB1

SOIL Sampling Point: DP WIB1

Profile Descr	ription: (Describe to	o the de	oth needed to docu	ıment tl	ne indica	ator or co	onfirm the absence	of indicators.)
Depth	Matrix			k Featur				
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
0-2	7.5YR 5/3	90	7.5YR 5/8	10	С	PL	Loamy/Clayey	
2-6	7.5YR 5/2	80	7.5YR 5/6	20	<u>C</u>	PL	Loamy/Clayey	Prominent redox concentrations
6-12	7.5YR 6/1	75	7.5YR 6/8	15	<u>C</u>	PL	Loamy/Clayey	Prominent redox concentrations
¹ Type: C=Co	ncentration, D=Deple	etion, RM	=Reduced Matrix, M	1S=Masl	ked Sand	d Grains.	² Location	: PL=Pore Lining, M=Matrix.
Hydric Soil I	ndicators:						Indic	ators for Problematic Hydric Soils ³ :
Histosol ((A1)		Polyvalue Be	low Sur	face (S8)	(MLRA	147, 148)	2 cm Muck (A10) (MLRA 147)
	ipedon (A2)		Thin Dark Su			-		Coast Prairie Redox (A16)
Black His			Loamy Muck	•			· —	(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye	•			•	Piedmont Floodplain Soils (F19)
	Layers (A5)		X Depleted Ma					(MLRA 136, 147)
	ck (A10) (LRR N)		Redox Dark				ı	Red Parent Material (F21)
	Below Dark Surface	(A11)	Depleted Da					(outside MLRA 127, 147, 148)
	rk Surface (A12)	(/(1/)	Redox Depre				,	/ery Shallow Dark Surface (F22)
	ucky Mineral (S1)		Iron-Mangan			2) (I RR N		Other (Explain in Remarks)
	eyed Matrix (S4)		MLRA 136		11 1) 0000	-) (= :::::	<u> </u>	Strot (Explain in Homaine)
Sandy Re			Umbric Surfa	•	MIRA	122 136	3Indio	cators of hydrophytic vegetation and
	Matrix (S6)		Piedmont Flo					vetland hydrology must be present,
Dark Sur			Red Parent N		•	, .	-	unless disturbed or problematic.
Restrictive L	ayer (if observed):						-	·
Type:								
Depth (in	ches):						Hydric Soil Prese	ent? Yes X No
Remarks:	<u> </u>						-	

WETLAND DETERMINATION DATA SHEET – Eastern Mountains and Piedmont Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: The Conservancy / Moncure A	ssemblage	City/County: Chatham		_Sampling Date:	10/06/2020		
Applicant/Owner: The Conservancy Rea	l Estate Group, LLC		State: NC	- Sampling Point:	DP WIB2		
Investigator(s): K. Hamlin/ P. Beach		Section, Township, Range:	Cape Fear Township	_			
Landform (hillside, terrace, etc.): terrace	Lo	cal relief (concave, convex,		Slope (%):	0.5		
Subregion (LRR or MLRA): LRR P, MLRA 1			79.0028		NAD83		
,			NWI classifica		IVADOS		
Soil Map Unit Name: CrC—Creedmoor-Gree							
Are climatic / hydrologic conditions on the site	,			explain in Remark			
Are Vegetation, Soil, or Hydro			ircumstances" present?	Yes X	_ No		
Are Vegetation, Soil, or Hydro	logynaturally probl	ematic? (If needed, exp	olain any answers in Re	marks.)			
SUMMARY OF FINDINGS – Attach	site map showing s	sampling point location	ons, transects, im	portant featu	res, etc.		
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled Area					
Hydric Soil Present?	Yes No X	within a Wetland?	Yes	No X			
Wetland Hydrology Present?	Yes No X						
Remarks:							
Per Antecedent Precipitation Tool - Normal	conditions						
·							
HYDROLOGY							
Wetland Hydrology Indicators:			Secondary Indicators	(minimum of two	required)		
Primary Indicators (minimum of one is requi	red; check all that apply)		Surface Soil Crac	ks (B6)			
Surface Water (A1)	True Aquatic Plants	(B14)	Sparsely Vegetate	ed Concave Surfa	ce (B8)		
High Water Table (A2)	Hydrogen Sulfide Oc	lor (C1)	X Drainage Patterns (B10)				
Saturation (A3)	Oxidized Rhizospher	res on Living Roots (C3)	Moss Trim Lines (B16)				
Water Marks (B1)	Presence of Reduce		Dry-Season Water Table (C2)				
Sediment Deposits (B2)		on in Tilled Soils (C6)	Crayfish Burrows				
Drift Deposits (B3)	Thin Muck Surface (Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	Other (Explain in Re	marks)	Stunted or Stress				
Iron Deposits (B5)	7\		Geomorphic Posit				
Inundation Visible on Aerial Imagery (B7 Water-Stained Leaves (B9)	')		Shallow Aquitard Microtopographic				
Aquatic Fauna (B13)			FAC-Neutral Test	` '			
Field Observations:		<u> </u>		(50)			
Surface Water Present? Yes	No X Depth (inch	es).					
Water Table Present? Yes	No X Depth (inch						
Saturation Present? Yes	No X Depth (inch		Hydrology Present?	Yes	No X		
(includes capillary fringe)			,		• •		
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos	s, previous inspections), if a	/ailable:				
Remarks:							

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: DP WIB2 Absolute Dominant Indicator Species? Tree Stratum (Plot size: 30' % Cover Status **Dominance Test worksheet:** 1. Pinus taeda 40 Yes FAC **Number of Dominant Species** 2. Liquidambar styraciflua 10 Yes FAC That Are OBL, FACW, or FAC: (A) 3. **Total Number of Dominant** Species Across All Strata: 4. (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 80.0% (A/B) Prevalence Index worksheet: 50 =Total Cover Total % Cover of: 50% of total cover: 25 20% of total cover: **OBL** species x 1 = **FACW** species Sapling/Shrub Stratum (Plot size: x 2 =92 Pinus taeda 40 FAC **FAC** species 276 Yes x3 =Vaccinium corymbosum 10 **FACW FACU** species 10 2. Yes x 4 = 3. UPL species 0 x 5 = 0 4. Column Totals: 112 336 (A) (B) 5. Prevalence Index = B/A = 6. **Hydrophytic Vegetation Indicators:** 1 - Rapid Test for Hydrophytic Vegetation 7. 8. X 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.01 9. 4 - Morphological Adaptations¹ (Provide supporting =Total Cover data in Remarks or on a separate sheet) 50% of total cover: 25 20% of total cover: Herb Stratum (Plot size: Problematic Hydrophytic Vegetation¹ (Explain) Microstegium vimineum ¹Indicators 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 more in diameter at breast height (DBH), regardless of 5. height. 6. 7. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft 8. (1 m) tall. 10. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. =Total Cover Woody Vine - All woody vines greater than 3.28 ft in 20% of total cover: 50% of total cover: Woody Vine Stratum (Plot size: 15') 10 1. Smilax rotundifolia 2. 3. 4. Hydrophytic =Total Cover Vegetation 50% of total cover: 20% of total cover: Present? Yes X No Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: DP WIB2

	•	o the dep				ator or c	onfirm the absence	of indicators.)		
Depth	Matrix			x Featur		1 2	- .	5 .		
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks	_	
0-4	7.5YR 4/3	100					Loamy/Clayey			
4-8	7.5YR 6/3	90	5YR 3/4	10	С	PL	Loamy/Clayey	Prominent redox concentrations		
8-14	7.5YR 4/3	100					Loamy/Clayey			
			_						_	
			-						—	
	ncentration, D=Deple	etion, RM	=Reduced Matrix, M	1S=Mas	ked Sand	d Grains.		n: PL=Pore Lining, M=Matrix.	_	
Hydric Soil I								cators for Problematic Hydric Soils	s ³ :	
Histosol (Polyvalue Be			-		2 cm Muck (A10) (MLRA 147)		
	ipedon (A2)		Thin Dark Su					Coast Prairie Redox (A16)		
Black His	, ,		Loamy Muck	•	. , .	ILRA 130	•	(MLRA 147, 148)		
	Sulfide (A4)		Loamy Gleye					Piedmont Floodplain Soils (F19)		
	Layers (A5)		Depleted Ma					(MLRA 136, 147)		
	ck (A10) (LRR N) Below Dark Surface	(111)	Redox Dark Depleted Da					Red Parent Material (F21) (outside MLRA 127, 147, 148)		
	rk Surface (A12)	(A11)	Redox Depre					Very Shallow Dark Surface (F22)		
	ucky Mineral (S1)					2) (I RR I				
	eyed Matrix (S4)		MLRA 136	Iron-Manganese Masses (F12) (LRR N, Other (Explain in Remarks)						
	edox (S5)		Umbric Surfa	•	3) (MLRA	122, 13	³ Indicators of hydrophytic vegetation and			
	Matrix (S6)		Piedmont Flo				-	wetland hydrology must be present,		
Dark Sur			Red Parent I		•		-	unless disturbed or problematic.		
Restrictive L	ayer (if observed):									
Type:										
Depth (in	ches):						Hydric Soil Pres	ent? Yes No X		
Remarks:										

WETLAND DETERMINATION DATA SHEET – Eastern Mountains and Piedmont Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: The Conservancy / Moncure A	ssemblage	City/County: Chatham		Sampling Date: 9/29/2020	0
Applicant/Owner: The Conservancy Rea	l Estate Group, LLC		State: NC	Sampling Point: DP WM	1
Investigator(s): S. Clark		Section, Township, Range:			
Landform (hillside, terrace, etc.): depressio	n Lo	cal relief (concave, convex, n	ione): concave	Slope (%): 0.5	
Subregion (LRR or MLRA): LRR P, MLRA 1		Long: -7		Datum: NAD83	
Soil Map Unit Name: CrB - Creedmoor-Gree		<u> </u>	NWI classifica		_
Are climatic / hydrologic conditions on the site					_
, ,	,,			explain in Remarks.)	
Are Vegetation, Soil, or Hydro			rcumstances" present?		-
Are Vegetation, Soil, or Hydro	logynaturally probl	ematic? (If needed, expl	ain any answers in Re	marks.)	
SUMMARY OF FINDINGS – Attach	site map showing s	sampling point locatio	ns, transects, im	portant 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:					_
Per Antecedent Precipitation Tool - Normal	conditions				
HYDROLOGY					_
Wetland Hydrology Indicators:			Secondary Indicators	(minimum of two required)	_
Primary Indicators (minimum of one is requi	red: check all that apply)		Surface Soil Crac		
Surface Water (A1)	True Aquatic Plants	(B14)		ed Concave Surface (B8)	
High Water Table (A2)	Hydrogen Sulfide Oc		Drainage Patterns		
X Saturation (A3)	Oxidized Rhizospher	res on Living Roots (C3)	Moss Trim Lines ((B16)	
Water Marks (B1)	Presence of Reduce	d Iron (C4)	Dry-Season Wate	er Table (C2)	
X Sediment Deposits (B2)	Recent Iron Reduction	on in Tilled Soils (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 Stress	ed Plants (D1)	
Iron Deposits (B5)		•	Geomorphic Posit		
Inundation Visible on Aerial Imagery (B7	7)		Shallow Aquitard	` ,	
Water-Stained Leaves (B9)			Microtopographic		
Aquatic Fauna (B13)			X FAC-Neutral Test	(D5)	
Field Observations:		, , , , ,			
Surface Water Present? Yes X Water Table Present? Yes	No Depth (inch				
Water Table Present? Yes Saturation Present? Yes X	No X Depth (inch		ydrology Present?	Vac V Na	
(includes capillary fringe)	No Depth (inch	es) vveilaliu n	yurology Fresent?	Yes <u>X</u> No	-
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos	s, previous inspections), if ava	ailable:		_
	g, p	·, p· · · · · · · · · · · · · · · · · ·			
Remarks:					

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: DP WM1 Absolute Dominant Indicator Tree Stratum (Plot size: 30') % Cover Species? **Dominance Test worksheet:** Status 1. **Number of Dominant Species** 2. That Are OBL, FACW, or FAC: (A) 3. **Total Number of Dominant** Species Across All Strata: 7 4. (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 85.7% (A/B) Prevalence Index worksheet: =Total Cover Total % Cover of: 50% of total cover: 20% of total cover: **OBL** species x 1 = Sapling/Shrub Stratum (Plot size: 30' **FACW** species x 2 =17 Vaccinium corymbosum 30 **FACW FAC** species x 3 = Quercus alba Yes **FACU** FACU species 10 2. x 4 =3. Viburnum nudum 10 Yes OBL UPL species 0 x 5 = 0 72 4. Acer rubrum 10 Yes FAC Column Totals: (A) 171 (B) 5. Prevalence Index = B/A = 6. **Hydrophytic Vegetation Indicators:** 7. 1 - Rapid Test for Hydrophytic Vegetation 8. X 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0¹ 9. 4 - Morphological Adaptations¹ (Provide supporting 60 =Total Cover data in Remarks or on a separate sheet) 50% of total cover: 30 20% of total cover: Herb Stratum (Plot size: Problematic Hydrophytic Vegetation¹ (Explain) Woodwardia areolata ¹Indicators 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 more in diameter at breast height (DBH), regardless of 5. height. 6. 7. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft 8. (1 m) tall. 10. Herb - All herbaceous (non-woody) plants, regardless 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: 20% of total cover: Woody Vine Stratum (Plot size: 15') Smilax rotundifolia Yes FAC 2. Vitis rotundifolia FAC Yes 3. 4. Hydrophytic =Total Cover Vegetation 50% of total cover: 20% of total cover: Present? Yes X No Remarks: (Include photo numbers here or on a separate sheet.) Sphagnum moss present

SOIL Sampling Point: DP WM1

		o the de				ator or c	onfirm the absence	of indicators.)		
Depth	Matrix			x Featur		12	Tandona	Damada		
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks		
0-4	10YR 5/3	90	7.5YR 6/4	10	<u>C</u>	PL	Loamy/Clayey	Faint redox concentrations		
4-12	10YR 5/2	90	7.5YR 6/4		<u>c</u>		Loamy/Clayey	Distinct redox concentrations		
Hydric Soil I		etion, RM	=Reduced Matrix, N	//S=Mas	ked Sand	Grains.		n: PL=Pore Lining, M=Matrix. cators for Problematic Hydric Soils ³ :		
Histosol (Polyvalue Be			-		2 cm Muck (A10) (MLRA 147)		
Histic Ep	pedon (A2)		Thin Dark Su	urface (S	89) (MLR	A 147, 1	48)	Coast Prairie Redox (A16)		
Black His	` '		Loamy Muck	•	. , .	ILRA 13		(MLRA 147, 148)		
	Sulfide (A4)		Loamy Gleye				!	Piedmont Floodplain Soils (F19)		
	Layers (A5)		X Depleted Ma					(MLRA 136, 147)		
	ck (A10) (LRR N)	(8.4.4)	Redox Dark				'	Red Parent Material (F21)		
	Below Dark Surface	(A11)	Depleted Da		, ,		,	(outside MLRA 127, 147, 148)		
	k Surface (A12) ucky Mineral (S1)		Redox Depre			o) /I DD I		Very Shallow Dark Surface (F22) Other (Explain in Remarks)		
	eyed Matrix (S4)		MLRA 136		3363 (1 12	2) (L IXIX I	<u> </u>	Other (Explain in Nemarks)		
Sandy Re				•	3) (MI RA	122, 130	3Indi	cators of hydrophytic vegetation and		
	Matrix (S6)		Umbric Surface (F13) (MLRA 122, 136 Piedmont Floodplain Soils (F19) (MLR				-	wetland hydrology must be present,		
Dark Sur				•	,		27, 147, 148) unless disturbed or problematic.			
	ayer (if observed):				(· = ·) (
Type:	, , , , , , , , , , , , , , , , , , , ,									
Depth (in	ches):						Hydric Soil Prese	ent? Yes X No		
Remarks:							•			

WETLAND DETERMINATION DATA SHEET – Eastern Mountains and Piedmont Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: The Conservancy / Moncure /	Assemblage	City/County: Chatham		_Sampling Date:	9/29/2020
Applicant/Owner: The Conservancy Rea	al Estate Group, LLC		State: NC	Sampling Point:	DP WM2
Investigator(s): S. Clark		Section, Township, Range:		_	
Landform (hillside, terrace, etc.): hillside	Lo	ocal relief (concave, convex, no	ne): convex	Slope (%):	1
Subregion (LRR or MLRA): LRR P, MLRA		Long: -79.	-	Datum:	
Soil Map Unit Name: CrB - Creedmoor-Gre			NWI classifica		1471200
				-	- \
Are climatic / hydrologic conditions on the sit				explain in Remark	
Are Vegetation, Soil, or Hydro			umstances" present	? Yes X	. No
Are Vegetation, Soil, or Hydro	ologynaturally probl	lematic? (If needed, expla	in any answers in Re	emarks.)	
SUMMARY OF FINDINGS – Attach	ı site map showing s	sampling point location	s, transects, im	portant featu	res, etc.
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled Area			
Hydric Soil Present?	Yes No X	within a Wetland?	Yes	No X	
Wetland Hydrology Present?	Yes No X				
Per Antecedent Precipitation Tool - Normal	conditions				
HYDROLOGY					
Wetland Hydrology Indicators:		<u>S</u>	econdary Indicators		required)
Primary Indicators (minimum of one is requ			Surface Soil Crac	, ,	
Surface Water (A1)	True Aquatic Plants	_	Sparsely Vegetate		ce (B8)
High Water Table (A2)	Hydrogen Sulfide Od	_	Drainage Patterns		
Saturation (A3)		res on Living Roots (C3)	Moss Trim Lines		
Water Marks (B1) Sediment Deposits (B2)	Presence of Reduce	on in Tilled Soils (C6)	Dry-Season Wate Crayfish Burrows		
Drift Deposits (B3)	Thin Muck Surface (_		on Aerial Imager	v (C9)
Algal Mat or Crust (B4)	Other (Explain in Re		Stunted or Stress		, (00)
Iron Deposits (B5)			Geomorphic Posi		
Inundation Visible on Aerial Imagery (B	7)	_	Shallow Aquitard		
Water-Stained Leaves (B9)		_	Microtopographic	Relief (D4)	
Aquatic Fauna (B13)		_	FAC-Neutral Test	(D5)	
Field Observations:					
Surface Water Present? Yes	No X Depth (inch	nes):			
Water Table Present? Yes	No X Depth (inch				
Saturation Present? Yes	No X Depth (inch	es): Wetland Hy	drology Present?	Yes	No X
(includes capillary fringe)					
Describe Recorded Data (stream gauge, m	onitoring well, aerial photos	s, previous inspections), if avail	lable:		
Remarks:					
Remarks.					

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

Tree Stratum (Plot size: 30')	% Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Quercus alba	45	Yes	FACU	
				Number of Dominant Species
2. Acer rubrum	20	Yes	FAC	That Are OBL, FACW, or FAC: 8 (A)
3. Quercus nigra	20	Yes	FAC	Total Number of Dominant
4				Species Across All Strata: 10 (B)
5				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 80.0% (A/B)
7				Prevalence Index worksheet:
	85	=Total Cover		Total % Cover of: Multiply by:
50% of total cover: 4	20%	of total cover:	17	OBL species 0 x 1 = 0
Sapling/Shrub Stratum (Plot size: 30')	1			FACW species 35 x 2 = 70
1. Vaccinium virgatum	20	Yes	FACW	FAC species 80 x 3 = 240
2. Quercus nigra	15	Yes	FAC	FACU species 50 x 4 = 200
3. Carya tomentosa	15	Yes	UPL	UPL species 25 x 5 = 125
4. Vaccinium corymbosum	15	Yes	FACW	Column Totals: 190 (A) 635 (B)
5. Oxydendrum arboreum	10	No	UPL	Prevalence Index = B/A = 3.34
6. Ilex opaca	5	No	FACU	Hydrophytic Vegetation Indicators:
7.		110	17.00	1 - Rapid Test for Hydrophytic Vegetation
3.				X 2 - Dominance Test is >50%
				- I
9				3 - Prevalence Index is ≤3.0 ¹
	80	=Total Cover		4 - Morphological Adaptations¹ (Provide supporting
====				
	20%	of total cover:	16	data in Remarks or on a separate sheet)
50% of total cover:4 <u>Herb Stratum</u> (Plot size:5')	20%	of total cover:	16	Problematic Hydrophytic Vegetation ¹ (Explain)
	<u> </u>	of total cover:	16	Problematic Hydrophytic Vegetation ¹ (Explain)
Herb Stratum (Plot size: 5')	<u> </u>	of total cover:	16	Problematic Hydrophytic Vegetation ¹ (Explain)
Herb Stratum (Plot size: 5')	<u> </u>	o of total cover:	16	Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be
Herb Stratum (Plot size: 5')	4 <u>0</u> 20%	o of total cover:	16	Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata:
Herb Stratum (Plot size:)	<u>10</u> 20%	o of total cover:	16	Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata:
Herb Stratum (Plot size: 5')	40 20%	o of total cover:	16	Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
Herb Stratum (Plot size: 5')	40 20%	o of total cover:	16	Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
Herb Stratum (Plot size: 5')	40 20%	o of total cover:	16	Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less
Herb Stratum (Plot size: 5')	40 20%	o of total cover:	16	Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
Herb Stratum (Plot size:)	40 20%	o of total cover:	16	Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
Herb Stratum (Plot size: 5')	40 20%	of total cover:		Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft
Herb Stratum (Plot size: 5')		of total cover:	16	Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless
Herb Stratum (Plot size: 5')		=Total Cover	16	Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Herb Stratum (Plot size:)			16	Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (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
Herb Stratum (Plot size: 5')		=Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (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
Herb Stratum (Plot size: 5')	20%	=Total Cover of total cover:	FAC	Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (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
Herb Stratum (Plot size: 5')	20%	=Total Cover of total cover: Yes Yes	FAC FAC	Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (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
Herb Stratum (Plot size: 5')	20%	=Total Cover of total cover:	FAC	Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (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
Herb Stratum (Plot size: 5')	20%	=Total Cover of total cover: Yes Yes	FAC FAC	Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (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
Herb Stratum (Plot size: 5')	20%	=Total Cover of total cover: Yes Yes Yes	FAC FAC	Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (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
Herb Stratum (Plot size: 5')	20% 15 5 5 25	=Total Cover of total cover: Yes Yes	FAC FAC	Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (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.

Sampling Point:

DP WM2

SOIL Sampling Point: DP WM2

	-	o the de	-			ator or c	onfirm the absence	of indicators.)	
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Featur %	res Type ¹	Loc ²	Texture	Remarks	
			Color (moist)	70	туре	Loc		Remarks	
0-3	10YR 4/3	100					Loamy/Clayey		
3-12	10YR 5/4	95	10YR 5/8	5	С	PL	Loamy/Clayey	Prominent redox concentrations	
								. <u> </u>	
							<u> </u>		
¹ Type: C=Co	ncentration, D=Deple	etion, RM	1=Reduced Matrix, N	1S=Mas	ked Sand	d Grains.	² Location	n: PL=Pore Lining, M=Matrix.	
Hydric Soil Ir	ndicators:						Indi	cators for Problematic Hydric Soils ³ :	
Histosol ((A1)		Polyvalue Be	low Sur	rface (S8	(MLRA	147, 148)	2 cm Muck (A10) (MLRA 147)	
Histic Epi	pedon (A2)		Thin Dark Su	ırface (S	39) (MLR	A 147, 1	48)	Coast Prairie Redox (A16)	
Black His	tic (A3)		Loamy Muck	y Miner	al (F1) (N	ILRA 13	6)	(MLRA 147, 148)	
Hydrogen	Sulfide (A4)		Loamy Gleye	ed Matri	x (F2)			Piedmont Floodplain Soils (F19)	
Stratified	Layers (A5)		Depleted Ma	trix (F3))			(MLRA 136, 147)	
2 cm Muc	ck (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 Dar	rk Surface (A12)		Redox Depre	essions	(F8)			Very Shallow Dark Surface (F22)	
Sandy Mu	ucky Mineral (S1)		Iron-Mangan	ese Ma	sses (F12	2) (LRR l	N,	Other (Explain in Remarks)	
Sandy Gl	eyed Matrix (S4)		MLRA 136)						
Sandy Re	edox (S5)		Umbric Surfa	ace (F13	3) (MLRA	122, 13	6) ³ Indi	icators of hydrophytic vegetation and	
Stripped I	Matrix (S6)		Piedmont Flo	odplair	Soils (F	19) (MLF	RA 148)	wetland hydrology must be present,	
Dark Surf	face (S7)		Red Parent N	Material	(F21) (M	LRA 127	· · · · · · · · · · · · · · · · · · ·		
Restrictive L	ayer (if observed):								
Type:									
Depth (in	ches):						Hydric Soil Pres	ent? Yes No X	
Remarks:									

WETLAND DETERMINATION DATA SHEET – Eastern Mountains and Piedmont Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: The Conservancy / Moncure A	ssemblage	City/County: Chatham		Sampling Date: 9/29/202	20		
Applicant/Owner: The Conservancy Rea	l Estate Group, LLC		State: NC	Sampling Point: DP WN	V 1		
Investigator(s): S. Clark		Section, Township, Range:	Cape Fear Township				
Landform (hillside, terrace, etc.): slope	Lo	cal relief (concave, convex, no	one): concave	Slope (%): 0.5			
Subregion (LRR or MLRA): LRR P, MLRA 1	36 Lat: 35.6599	Long: -79	9.0114	Datum: NAD83			
Soil Map Unit Name: CrB - Creedmoor-Gree	en Level complex. 2 to 6 pe		NWI classifica	tion: PFO			
Are climatic / hydrologic conditions on the site	·	·		explain in Remarks.)	_		
Are Vegetation, Soil, or Hydro			cumstances" present?				
	<u></u> -		·		_		
Are Vegetation, Soil, or Hydro SUMMARY OF FINDINGS – Attach	<u> </u>		ain any answers in Re ns, transects, im		٥.		
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 X	No			
Per Antecedent Precipitation Tool - Normal	oonanono						
Wetland Hydrology Indicators:		<u>;</u>	Secondary Indicators	(minimum of two required)			
Primary Indicators (minimum of one is requi			Surface Soil Crac	` '			
Surface Water (A1)	True Aquatic Plants	-		ed Concave Surface (B8)			
X High Water Table (A2)	Hydrogen Sulfide Od		X Drainage Patterns				
X Saturation (A3) Water Marks (B1)	Presence of Reduce	pheres on Living Roots (C3) Moss Trim Lines (B16) luced Iron (C4) Dry-Season Water Table (C2)					
Sediment Deposits (B2)		on in Tilled Soils (C6)	Crayfish Burrows				
X Drift Deposits (B3)	Thin Muck Surface (_		on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	Other (Explain in Rei	- ·	Stunted or Stress				
Iron Deposits (B5)		-	Geomorphic Posit	tion (D2)			
Inundation Visible on Aerial Imagery (B	7)	<u>-</u>	Shallow Aquitard	(D3)			
X Water-Stained Leaves (B9)		_	Microtopographic	, ,			
Aquatic Fauna (B13)			FAC-Neutral Test	(D5)			
Field Observations:							
Surface Water Present? Yes	No X Depth (inch						
Water Table Present? Yes X Saturation Present? Yes X	No Depth (inches		valuate av Cuacant?	Voc. V. No.			
Saturation Present? Yes X (includes capillary fringe)	No Depth (inch	es). 4 wetiand ny	ydrology Present?	Yes X No	—		
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos	s, previous inspections), if ava	ilable:				
33.	J 1, 111	,,					
Remarks:							

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: DP WN1 Absolute Dominant Indicator Tree Stratum (Plot size: 30') % Cover Species? Status **Dominance Test worksheet:** 1. Acer rubrum 15 Yes FAC **Number of Dominant Species** 2. That Are OBL, FACW, or FAC: (A) 3. **Total Number of Dominant** Species Across All Strata: 6 4. (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 83.3% (A/B) Prevalence Index worksheet: 15 =Total Cover Total % Cover of: 50% of total cover: 20% of total cover: **OBL** species x 1 = **FACW** species Sapling/Shrub Stratum (Plot size: x 2 =Liquidambar styraciflua 25 FAC **FAC** species 115 x 3 = 345 llex opaca **FACU FACU** species 20 2. Yes x 4 =3. Quercus nigra 20 Yes FAC UPL species 0 x 5 = 0 4. Column Totals: 135 (A) 425 (B) 5. Prevalence Index = B/A = 3.15 6. **Hydrophytic Vegetation Indicators:** 1 - Rapid Test for Hydrophytic Vegetation 7. 8. X 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.01 4 - Morphological Adaptations¹ (Provide supporting 65 =Total Cover data in Remarks or on a separate sheet) 50% of total cover: 33 20% of total cover: Herb Stratum (Plot size: 5') Problematic Hydrophytic Vegetation¹ (Explain) 1. ¹Indicators of hydric soil and wetland hydrology must be 2. present, unless disturbed or problematic. 3. **Definitions of Four Vegetation Strata:** Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of 5. height. 6. 7. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft 8. (1 m) tall. 10. Herb - All herbaceous (non-woody) plants, regardless 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: 20% of total cover: Woody Vine Stratum (Plot size: Smilax rotundifolia 40 Yes FAC 2. Gelsemium sempervirens 15 FAC Yes 3. 4. Hydrophytic 55 =Total Cover Vegetation 50% of total cover: 20% of total cover: Present? Yes X No Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: DP WN1

	-	o the de				ator or c	onfirm the absence	of indicators.)
Depth	Matrix			x Featu		. 2	- .	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-3	10YR 4/2	100						
3-12	10YR 5/1	95	10YR 4/6	5	<u>C</u>	PL	Loamy/Clayey	Prominent redox concentrations
		_						
¹Type: C=Co	ncentration, D=Deple	etion, RM	=Reduced Matrix, N	//S=Mas	ked Sand	Grains.	² Location	n: PL=Pore Lining, M=Matrix.
Hydric Soil I								cators for Problematic Hydric Soils ³ :
Histosol ((A1)		Polyvalue Be	elow Su	rface (S8	(MLRA	147, 148)	2 cm Muck (A10) (MLRA 147)
Histic Ep	ipedon (A2)		Thin Dark S	urface (S	39) (MLR	A 147, 1	48)	Coast Prairie Redox (A16)
Black His	stic (A3)		Loamy Muck	ky Miner	al (F1) (N	ILRA 13	<u>—</u> 6)	(MLRA 147, 148)
Hydroger	n Sulfide (A4)		Loamy Gley	ed Matri	x (F2)			Piedmont Floodplain Soils (F19)
Stratified	Layers (A5)		X Depleted Ma	trix (F3))			(MLRA 136, 147)
2 cm Mu	ck (A10) (LRR N)		Redox Dark					Red Parent Material (F21)
	Below Dark Surface	(A11)	Depleted Da					(outside MLRA 127, 147, 148)
	rk Surface (A12)	,	Redox Depre					Very Shallow Dark Surface (F22)
	ucky Mineral (S1)		Iron-Mangar			2) (LRR I		Other (Explain in Remarks)
	eyed Matrix (S4)		MLRA 130		`	, ,		, ,
	edox (S5)		Umbric Surfa	,	3) (MLRA	122, 13	3Indi	cators of hydrophytic vegetation and
	Matrix (S6)		Piedmont Fl				-	wetland hydrology must be present,
Dark Sur			Red Parent				-	unless disturbed or problematic.
Restrictive L	ayer (if observed):		<u> </u>					
Type:								
Depth (in	ches):						Hydric Soil Pres	ent? Yes X No
Remarks:	·		<u> </u>					

WETLAND DETERMINATION DATA SHEET – Eastern Mountains and Piedmont Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: The Conservancy / Moncure /	Assemblage	City/County: Chatham		_Sampling Date:	9/29/2020	
Applicant/Owner: The Conservancy Rea	al Estate Group, LLC		State: NC	Sampling Point:	DP WN2	
Investigator(s): S. Clark	·	Section, Township, Range	: Cape Fear Township	_		
Landform (hillside, terrace, etc.): hillside	Lo	cal relief (concave, convex,		Slope (%):	0.5	
Subregion (LRR or MLRA): LRR P, MLRA	•	•	79.0117		NAD83	
Soil Map Unit Name: CrB - Creedmoor-Gre			NWI classifica			
					٠,	
Are climatic / hydrologic conditions on the sit				explain in Remark		
Are Vegetation, Soil, or Hydro			Circumstances" present		. NO	
Are Vegetation, Soil, or Hydro	ologynaturally probl	ematic? (If needed, ex	plain any answers in Re	emarks.)		
SUMMARY OF FINDINGS – Attack	site map showing s	sampling point locati	ons, transects, im	portant featu	res, etc.	
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled Area				
Hydric Soil Present?	Yes No X	within a Wetland?	Yes	No X		
Wetland Hydrology Present?	Yes No X	William a Wolland		<u> </u>		
Remarks:						
adjacent to old tire ruts						
Per Antecedent Precipitation Tool - Normal	conditions					
HYDROLOGY						
Wetland Hydrology Indicators:			Secondary Indicators	(minimum of two	required)	
Primary Indicators (minimum of one is requ			Surface Soil Crac	` '		
Surface Water (A1)	True Aquatic Plants			ed Concave Surfa	ce (B8)	
High Water Table (A2)	Hydrogen Sulfide Oc		Drainage Pattern			
Saturation (A3)		res on Living Roots (C3)	Moss Trim Lines (B16)			
Water Marks (B1)	Presence of Reduce		Dry-Season Water Table (C2)			
Sediment Deposits (B2) Drift Deposits (B3)	Thin Muck Surface (on in Tilled Soils (C6)	Crayfish Burrows	e on Aerial Imager	v (C0)	
Algal Mat or Crust (B4)	Other (Explain in Re		Stunted or Stress		/ (C9)	
Iron Deposits (B5)	Other (Explain in Ne	manoj	Geomorphic Posi			
Inundation Visible on Aerial Imagery (B	7)		Shallow Aquitard			
Water-Stained Leaves (B9)	,		Microtopographic			
Aquatic Fauna (B13)			FAC-Neutral Test	, ,		
Field Observations:						
Surface Water Present? Yes	No X Depth (inch	es):				
Water Table Present? Yes	No X Depth (inch					
Saturation Present? Yes	No X Depth (inch	es): Wetland	Hydrology Present?	Yes	No X	
(includes capillary fringe)						
Describe Recorded Data (stream gauge, m	onitoring well, aerial photos	s, previous inspections), if a	vailable:			
Domorko						
Remarks:						
1						

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: DP WN2 Absolute Dominant Indicator Species? Tree Stratum (Plot size: 30' % Cover Status **Dominance Test worksheet:** 1. Quercus alba 20 Yes **FACU Number of Dominant Species** 2. Acer rubrum 15 Yes FAC That Are OBL, FACW, or FAC: (A) 3. **Total Number of Dominant** Species Across All Strata: 6 4. (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 83.3% (A/B) Prevalence Index worksheet: =Total Cover Total % Cover of: 50% of total cover: 18 20% of total cover: **OBL** species x 1 = **FACW** species Sapling/Shrub Stratum (Plot size: x 2 =102 Liquidambar styraciflua 50 FAC **FAC** species x 3 = 306 Pinus taeda 15 FAC **FACU** species 30 120 2. Yes x 4 =3. Quercus alba 10 No **FACU** UPL species 0 x 5 = 0 4. Column Totals: 132 (A) 426 (B) 5. Prevalence Index = B/A = 3.23 6. **Hydrophytic Vegetation Indicators:** 1 - Rapid Test for Hydrophytic Vegetation 7. 8. X 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.01 4 - Morphological Adaptations¹ (Provide supporting 75 =Total Cover data in Remarks or on a separate sheet) 50% of total cover: 38 20% of total cover: Herb Stratum (Plot size: 5') Problematic Hydrophytic Vegetation¹ (Explain) 1. ¹Indicators of hydric soil and wetland hydrology must be 2. present, unless disturbed or problematic. 3. **Definitions of Four Vegetation Strata:** Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of 5. height. 6. 7. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft 8. (1 m) tall. 10. Herb - All herbaceous (non-woody) plants, regardless 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: 20% of total cover: Woody Vine Stratum (Plot size: Smilax rotundifolia 15 Yes FAC 2. Gelsemium sempervirens 5 FAC Yes 3. Vitis rotundifolia 2 No FAC 4. 5. Hydrophytic 22 =Total Cover Vegetation 50% of total cover: 20% of total cover: Present? Yes X No Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: DP WN2

	ription: (Describe	to the de				ator or c	onfirm the ab	sence of indi	cators.)	
Depth (inches)	Color (moist)	%	Color (moist)	x Featu	res Type ¹	Loc ²	Toytur	,	Por	narks
(inches)			Color (moist)	70	туре	LUC	Texture		Kei	liaiks
0-9	10YR 3/3	100					Loamy/Cla	ayey		
9-14	10YR 4/3	100								
							-			
¹Type: C=Co	oncentration, D=Depl	letion. RM	=Reduced Matrix. N	 IS=Mas	ked Sand	d Grains.		ocation: PL=I	Pore Linina. I	M=Matrix.
Hydric Soil I		, , , , , , , , , , , , , , , , , , , ,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							atic Hydric Soils ³ :
Histosol			Polyvalue Be	elow Su	rface (S8) (MLRA	147, 148)		luck (A10) (N	•
Histic Ep	ipedon (A2)		Thin Dark Su	urface (39) (MLR	A 147, 1	48)	Coast F	Prairie Redox	(A16)
Black His	stic (A3)		Loamy Muck	y Miner	al (F1) (N	ILRA 13	6)	(MLR	A 147, 148)	
	n Sulfide (A4)		Loamy Gleye						ont Floodplair	n Soils (F19)
	Layers (A5)		Depleted Ma					•	A 136, 147)	
	ck (A10) (LRR N)		Redox Dark						rent Material	, ,
	Below Dark Surface	e (A11)	Depleted Da					-		27, 147, 148)
	rk Surface (A12) ucky Mineral (S1)		Redox Depre			2) /I DD I	NI.		Explain in Re	Surface (F22)
	leyed Matrix (S4)		MLRA 136		55 6 5 (1 12	2) (LKK I	٧,	Other (схріант III Ne	illaiks)
	edox (S5)		Umbric Surfa		3) (MLRA	122. 13	6)	³ Indicators	of hydrophyti	c vegetation and
	Matrix (S6)		Piedmont Flo				-			nust be present,
	face (S7)		Red Parent I				-		disturbed or	
Restrictive L	ayer (if observed):									
Type:										
Depth (in	iches):						Hydric So	il Present?	Yes	NoX
Remarks:										

WETLAND DETERMINATION DATA SHEET – Eastern Mountains and Piedmont Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: The Conservancy / Moncure A	ssemblage	City/County: Chatham		Sampling Date:	10/06/2020
Applicant/Owner: The Conservancy Rea	l Estate Group, LLC		State: NC	- Sampling Point:	DP WR1
Investigator(s): S. Clark		Section, Township, Range:	Cape Fear Township	_	
Landform (hillside, terrace, etc.): slope	Lo	cal relief (concave, convex,		Slope (%):	0.5
Subregion (LRR or MLRA): LRR P, MLRA 1			79.0197		NAD83
Soil Map Unit Name: CrC—Creedmoor-Gree			NWI classificat		147 1200
					- \
Are climatic / hydrologic conditions on the site	,,			explain in Remark	
Are Vegetation, Soil, or Hydro	·		ircumstances" present?	Yes X	. No
Are Vegetation, Soil, or Hydro	logynaturally probl	ematic? (If needed, exp	olain any answers in Re	marks.)	
SUMMARY OF FINDINGS – Attach	site map showing	sampling point location	ons, transects, im	portant featu	res, 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		<u></u>		
Remarks:					
Per Antecedent Precipitation Tool - Normal	conditions				
'					
HYDROLOGY					
Wetland Hydrology Indicators:			Secondary Indicators	(minimum of two	required)
Primary Indicators (minimum of one is requi	red; check all that apply)		Surface Soil Crack	ks (B6)	
Surface Water (A1)	True Aquatic Plants		Sparsely Vegetate		ce (B8)
High Water Table (A2)	Hydrogen Sulfide Od	dor (C1)	X Drainage Patterns	s (B10)	
Saturation (A3)		res on Living Roots (C3)	Moss Trim Lines (
X Water Marks (B1)	Presence of Reduce		Dry-Season Wate		
X Sediment Deposits (B2)		on in Tilled Soils (C6)	Crayfish Burrows		(00)
X Drift Deposits (B3)	Thin Muck Surface (Saturation Visible		/ (C9)
Algal Mat or Crust (B4)	Other (Explain in Re	marks)	Stunted or Stresse		
Iron Deposits (B5)	7\		Geomorphic Posit Shallow Aquitard		
Inundation Visible on Aerial Imagery (B7 X Water-Stained Leaves (B9)	()		Microtopographic	` '	
Aquatic Fauna (B13)			FAC-Neutral Test	` '	
Field Observations:		<u> </u>		(50)	
Surface Water Present? Yes	No X Depth (inch	oc).			
Water Table Present? Yes	No X Depth (inch				
Saturation Present? Yes	No X Depth (inch		Hydrology Present?	Yes X	No
(includes capillary fringe)			,	<u>//</u>	
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos	s, previous inspections), if a	vailable:		
, , ,					
Remarks:					

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

T 0: (Pl : : 00)	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. Nyssa sylvatica	20	Yes	FAC	That Are OBL, FACW, or FAC:6 (A)
3. Ilex opaca	15	<u>No</u>	FACU	Total Number of Dominant
4. Quercus nigra	15	No	FAC	Species Across All Strata: 7 (B)
5. Pinus taeda	25	Yes	FAC	Percent of Dominant Species
6.				That Are OBL, FACW, or FAC: 85.7% (A/B)
7				Prevalence Index worksheet:
	100 :	=Total Cover		Total % Cover of: Multiply by:
50% of total cover:50	0 20%	of total cover:	20	OBL species 0 x 1 = 0
Sapling/Shrub Stratum (Plot size: 30')				FACW species 20 x 2 = 40
Liquidambar styraciflua	20	Yes	FAC	FAC species 130 x 3 = 390
2. Quercus nigra	20	Yes	FAC	FACU species 40 x 4 = 160
3. Acer rubrum	5	No	FAC	UPL species 0 x 5 = 0
4. Vaccinium corymbosum	20	Yes	FACW	Column Totals: 190 (A) 590 (B)
5. Ilex opaca	5	No	FACU	Prevalence Index = B/A = 3.11
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 ¹
	70 :	=Total Cover		4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover: 39		of total cover:	14	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5')		0. 1010.		Problematic Hydrophytic Vegetation ¹ (Explain)
1.				1
2.				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3.				Definitions of Four Vegetation Strata:
4.				
5.				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
				height.
6.				
7.				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft
8.				(1 m) tall.
9.				
10				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:	20%	of total cover:		height.
Woody Vine Stratum (Plot size: 15')				
Smilax rotundifolia	20	Yes	FACU	
2				
3				
4.				
5.				Hydranbytia
	20 :	=Total Cover		Hydrophytic Vegetation
50% of total cover: 10	0 20%	of total cover:	4	Present? Yes X No
				
Remarks: (Include photo numbers here or on a sepa	iale sneet.)			

Sampling Point: DP WR1

SOIL Sampling Point: DP WR1

		o the dep				ator or co	onfirm the absence	of indicators.)
Depth	Matrix			x Featur		12	T	Demode
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
0-4	10YR 6/3	85	10YR 5/8	15	<u>C</u>	PL	Loamy/Clayey	
4-12	10YR 6/2	<u>85</u>	10YR 5/8			PL ——	Loamy/Clayey	Prominent redox concentrations
¹Type: C=Co	ncentration, D=Deple	etion, RM	=Reduced Matrix, M		ked Sand	Grains.		n: PL=Pore Lining, M=Matrix. cators for Problematic Hydric Soils ³ :
-			Polyvoluo Ro	olow Sur	faco (S8)	/MI DA		•
Black His Hydroger Stratified 2 cm Muc Depleted Thick Da Sandy Mi Sandy Gl Sandy Re Stripped Dark Surf	pedon (A2) tic (A3) a Sulfide (A4) Layers (A5) ck (A10) (LRR N) Below Dark Surface ck Surface (A12) ucky Mineral (S1) eyed Matrix (S4) edox (S5) Matrix (S6) face (S7)	(A11)	Polyvalue Be Thin Dark St Loamy Muck Loamy Gleye X Depleted Ma Redox Dark Depleted Da Redox Depre Iron-Mangan MLRA 136 Umbric Surfa Piedmont Fle Red Parent I	urface (Sty Minerace) ded Matrix ded Matrix derix (F3) Surface rk Surface rk Surface dessions desse Mas desse Mas dessions desse Mas desse (F13 descodplain	S9) (MLR al (F1) (M x (F2) (F6) ace (F7) (F8) asses (F12 B) (MLRA a Soils (F7)	A 147, 1. ILRA 13(2) (LRR I 122, 13(48)	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) cators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Restrictive L	ayer (if observed):							
Type:								
Depth (in	ches):						Hydric Soil Prese	ent? Yes X No
Remarks:								

WETLAND DETERMINATION DATA SHEET – Eastern Mountains and Piedmont Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: The Conservancy / Moncure Assemblage City/County: Chatham S	ampling Date:	10/06/2020
Applicant/Owner: The Conservancy Real Estate Group, LLC State: NC S	ampling Point:	DP WR2
Investigator(s): D. Gainey Section, Township, Range: Cape Fear Township		
Landform (hillside, terrace, etc.): terrace Local relief (concave, convex, none): concave	Slope (%):	0.5
Subregion (LRR or MLRA): LRR P, MLRA 136 Lat: 35.6599 Long: -79.0197		NAD83
Soil Map Unit Name: CrC—Creedmoor-Green Level complex, 6 to 10 percent slopes NWI classification	_	
		c)
	lain in Remarks	
Are Vegetation, Soil, or Hydrologysignificantly disturbed? Are "Normal Circumstances" present?	Yes X	NO
Are Vegetation, Soil, or Hydrologynaturally problematic? (If needed, explain any answers in Rema	,	
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, impo	ortant featur	res, etc.
Hydrophytic Vegetation Present? Yes X No Is the Sampled Area		
	lo	
Wetland Hydrology Present? Yes X No		
Remarks:		
Per Antecedent Precipitation Tool - Normal conditions		
HYDROLOGY		
Wetland Hydrology Indicators: Secondary Indicators (m		required)
Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks		(5.0)
Surface Water (A1)True Aquatic Plants (B14)Sparsely Vegetated		ce (B8)
X High Water Table (A2) Hydrogen Sulfide Odor (C1) X Drainage Patterns (E		
Saturation (A3) Oxidized Rhizospheres on Living Roots (C3) Moss Trim Lines (B1) Presence of Reduced Iron (C4)		
Water Marks (B1)Presence of Reduced Iron (C4)Dry-Season Water T Sediment Deposits (B2) Recent Iron Reduction in Tilled Soils (C6) Crayfish Burrows (C6)		
Drift Deposits (B3) Thin Muck Surface (C7) Saturation Visible on		, (C9)
Algal Mat or Crust (B4) Other (Explain in Remarks) Stunted or Stressed		(00)
Iron Deposits (B5) Geomorphic Position		
Inundation Visible on Aerial Imagery (B7) Shallow Aquitard (D3)		
X Water-Stained Leaves (B9) Microtopographic Re		
Aquatic Fauna (B13)FAC-Neutral Test (D	5)	
Field Observations:		
Surface Water Present? Yes No _ X Depth (inches):		
Water Table Present? Yes X No Depth (inches): 2		
Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present?	Yes X	No
(includes capillary fringe)		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks:		
Nemans.		

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: DP WR2

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:
Quercus phellos	40	Yes	FAC	Number of Dominant Species
2. Liquidambar styraciflua	10	No	FAC	That Are OBL, FACW, or FAC: 4 (A)
3. Carpinus caroliniana	10	No	FAC	Total Number of Dominant
4. Pinus taeda	30	Yes	FAC	Species Across All Strata: 6 (B)
5				Percent of Dominant Species
6.				That Are OBL, FACW, or FAC: 66.7% (A/B)
7.				Prevalence Index worksheet:
	90	=Total Cover		Total % Cover of: Multiply by:
50% of total cover: 4	15 20%	of total cover:	18	OBL species 0 x 1 = 0
Sapling/Shrub Stratum (Plot size: 30')			FACW species 0 x 2 = 0
1. Carpinus caroliniana	40	Yes	FAC	FAC species 160 x 3 = 480
Liquidambar styraciflua	20	Yes	FAC	FACU species 40 x 4 = 160
3. Acer rubrum	10	No	FAC	UPL species 0 x 5 = 0
4.				Column Totals: 200 (A) 640 (B)
5.				Prevalence Index = B/A = 3.20
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 ¹
	70	=Total Cover		4 - Morphological Adaptations ¹ (Provide supporting
FOOY of total agrees			4.4	data in Remarks or on a separate sheet)
	35 20%	of total cover:	14	
Herb Stratum (Plot size: 5')	20	V		Problematic Hydrophytic Vegetation ¹ (Explain)
1. Carex sp.	30	Yes		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 height.
6.				noight.
7				Sapling/Shrub – Woody plants, excluding vines, less
8.				than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
9				(1 m) tail.
10				Herb – All herbaceous (non-woody) plants, regardless
11				of size, and woody plants less than 3.28 ft tall.
	30	=Total Cover		Woody Vine – All woody vines greater than 3.28 ft in
50% of total cover:1	15 20%	of total cover:	6	height.
Woody Vine Stratum (Plot size:)				
Smilax rotundifolia	40	Yes	FACU	
2				
3				
4.				
5.				Hadron bad's
	40	=Total Cover		Hydrophytic Vegetation
50% of total cover: 2	20 20%	of total cover:	8	Present? Yes X No
Remarks: (Include photo numbers here or on a sepa	arate sheet.)			

SOIL Sampling Point: DP WR2

		o the de				itor or co	onfirm the absence	of indicators.)
Depth	Matrix			x Featur		. 2	- .	Б
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
0-8	10YR 6/2	97	10YR 5/6	3	<u>C</u>	PL	Loamy/Clayey	
8-12	10YR 6/2	90	10YR 5/6	10	<u>C</u>	PL	Loamy/Clayey	Prominent redox concentrations
	ncentration, D=Deple	etion, RM	=Reduced Matrix, M	1S=Mas	ked Sand	Grains.		: PL=Pore Lining, M=Matrix.
Black His Hydroger Stratified 2 cm Muc Depleted Thick Dar Sandy Mu Sandy Gl	A1) pedon (A2) tic (A3) Sulfide (A4) Layers (A5) ck (A10) (LRR N) Below Dark Surface k Surface (A12) ucky Mineral (S1) eyed Matrix (S4) edox (S5) Matrix (S6)	(A11)	Polyvalue Be Thin Dark St Loamy Muck Loamy Gleye X Depleted Ma Redox Dark Depleted Da Redox Depre Iron-Mangan MLRA 136 Umbric Surfa Piedmont Fle	urface (Sty Minerace) Minerace (Matrix (F3) Surface rk Surface rk Surfacessions desse Matrix Matrix (F1) Matrix (F	(F6) (MLR (F2) (F6) (F6) (F8) (F8) (MLRA) (Soils (F12)	A 147, 1. ILRA 13(2) (LRR I 122, 13(147, 148)2 48)6 6)F N,6 8A 148)3	cators for Problematic Hydric Soils ³ : 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) cators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
	ayer (if observed):				(· = · / (- · ·		<u> </u>	
Type:	ayer (ii observed).							
Depth (in	ches):						Hydric Soil Prese	ent? Yes X No
Remarks:								

WETLAND DETERMINATION DATA SHEET – Eastern Mountains and Piedmont Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: The Conservancy / Moncure A	Assemblage	City/County: Chatham		Sampling Date:	10/06/2020		
Applicant/Owner: The Conservancy Rea	Il Estate Group, LLC		State: NC	Sampling Point:	DP WR3		
Investigator(s): D. Gainey		Section, Township, Range: (Cape Fear Township	_			
Landform (hillside, terrace, etc.): terrace	Lo	cal relief (concave, convex, no		Slope (%):	0.5		
Subregion (LRR or MLRA): LRR P, MLRA 1		Long: -79		Datum:	NAD83		
Soil Map Unit Name: CrC—Creedmoor-Gree			NWI classifica		1471200		
	•						
Are climatic / hydrologic conditions on the sit				explain in Remark			
Are Vegetation, Soil, or Hydro			cumstances" present?		No		
Are Vegetation, Soil, or Hydro	ologynaturally probl	ematic? (If needed, expla	ain any answers in Re	emarks.)			
SUMMARY OF FINDINGS – Attach	site map showing s	sampling point location	ns, transects, im	portant featu	res, etc.		
Hydrophytic Vegetation Present?	Yes No X	Is the Sampled Area					
Hydric Soil Present?	Yes No X	within a Wetland?	Yes	No X			
Wetland Hydrology Present?	Yes No X						
Remarks: Per Antecedent Precipitation Tool - Normal	conditions						
HYDROLOGY							
Wetland Hydrology Indicators:		<u>9</u>	Secondary Indicators	•	equired)		
Primary Indicators (minimum of one is requi			Surface Soil Crac	, ,	4 = - >		
Surface Water (A1)	True Aquatic Plants		Sparsely Vegetate		ce (B8)		
High Water Table (A2)	Hydrogen Sulfide Od	_	Drainage Patterns (B10)				
Saturation (A3) Water Marks (B1)	Presence of Reduce	res on Living Roots (C3)	s (C3) Moss Trim Lines (B16) Dry-Season Water Table (C2)				
Sediment Deposits (B2)		on in Tilled Soils (C6)	Crayfish Burrows				
Drift Deposits (B3)	Thin Muck Surface (_	Saturation Visible		v (C9)		
Algal Mat or Crust (B4)	Other (Explain in Re		Stunted or Stress		()		
Iron Deposits (B5)		,	Geomorphic Posit				
Inundation Visible on Aerial Imagery (B	7)		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 (inch						
Water Table Present? Yes	No X Depth (inch						
Saturation Present? Yes	No X Depth (inch	es): Wetland Hy	drology Present?	Yes	No X		
(includes capillary fringe)	anitaring wall carial photos	n provious inspections) if over	ilahlar				
Describe Recorded Data (stream gauge, mo	onitoring well, aerial priotos	s, previous inspections), ii ava	liable.				
Remarks:							

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: DP WR3 Absolute Dominant Indicator Species? Tree Stratum (Plot size: 30' % Cover Status **Dominance Test worksheet:** 1. Quercus alba 40 Yes **FACU Number of Dominant Species** 2. Pinus taeda 20 Yes FAC That Are OBL, FACW, or FAC: (A) 3. **Total Number of Dominant** 4. Species Across All Strata: 6 (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 50.0% (A/B) Prevalence Index worksheet: 60 =Total Cover Total % Cover of: 50% of total cover: 30 20% of total cover: **OBL** species x 1 = **FACW** species Sapling/Shrub Stratum (Plot size: x 2 =50 Liquidambar styraciflua 30 FAC **FAC** species x 3 = 150 Yes llex opaca **FACU FACU** species 60 240 2. Yes x 4 = 3. UPL species 0 x 5 = 0 4. Column Totals: 150 (A) 470 (B) 5. Prevalence Index = B/A = 3.13 6. **Hydrophytic Vegetation Indicators:** 1 - Rapid Test for Hydrophytic Vegetation 7. 8. 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.01 9. 4 - Morphological Adaptations¹ (Provide supporting 40 =Total Cover data in Remarks or on a separate sheet) 50% of total cover: 20 20% of total cover: Herb Stratum (Plot size: Problematic Hydrophytic Vegetation¹ (Explain) Vaccinium corymbosum **FACW** ¹Indicators 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 more in diameter at breast height (DBH), regardless of 5. height. 6. 7. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft 8. (1 m) tall. 10. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. 40 =Total Cover Woody Vine - All woody vines greater than 3.28 ft in 50% of total cover: 20% of total cover: Woody Vine Stratum (Plot size: 15') 10 Smilax rotundifolia 2. 3. 4. Hydrophytic 10 =Total Cover Vegetation 50% of total cover: 20% of total cover: Present? No X Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: DP WR3

	ription: (Describe t	o the de				ator or c	onfirm the absence	of indicators.)
Depth (inches)	Matrix	0/		x Featur		Loc ²	Toydura	Domorko
(inches) 0-1	Color (moist)	100	Color (moist)	<u>%</u>	Type ¹	LOC	Texture	Remarks
	10YR 3/2	100					Loamy/Clayey	
1-12	10YR 5/4	97	10YR 5/6	3	<u>C</u>	PL	Loamy/Clayey	Distinct redox concentrations
¹ Type: C=Co	oncentration, D=Deple	etion, RM	=Reduced Matrix, N	/IS=Mas	ked Sand	d Grains.	² Locatio	n: PL=Pore Lining, M=Matrix.
Hydric Soil I								icators for Problematic Hydric Soils ³ :
Histosol			Polyvalue Be			-		2 cm Muck (A10) (MLRA 147)
	ipedon (A2)		Thin Dark Su					Coast Prairie Redox (A16)
Black His			Loamy Muck			ILRA 13	-	(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye					Piedmont Floodplain Soils (F19)
	Layers (A5)		Depleted Ma					(MLRA 136, 147)
	ck (A10) (LRR N)	(044)	Redox Dark					Red Parent Material (F21)
	Below Dark Surface rk Surface (A12)	(A11)	Depleted Da Redox Depre					(outside MLRA 127, 147, 148) Very Shallow Dark Surface (F22)
	ucky Mineral (S1)		Iron-Mangan		, ,	o) /I DD I		Other (Explain in Remarks)
	leyed Matrix (S4)		MLRA 136		3303 (1 12	<u>-) (=:\:\:</u>		Other (Explain in Remarks)
	edox (S5)		Umbric Surfa	•	3) (MLRA	122. 130	6) ³ Ind	icators of hydrophytic vegetation and
	Matrix (S6)		Piedmont Flo					wetland hydrology must be present,
	face (S7)		Red Parent I	•	•	, ,		unless disturbed or problematic.
	.ayer (if observed):				• / •			
Type:								
Depth (in	iches):						Hydric Soil Pres	ent? Yes No X
Remarks:								

WETLAND DETERMINATION DATA SHEET – Eastern Mountains and Piedmont Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: The Conservancy / Moncure	Assemblage	City/County: Chatham		_Sampling Date:	10/08/2020			
Applicant/Owner: The Conservancy Re	eal Estate Group, LLC		State: NC	Sampling Point:	DP WS			
Investigator(s): D. Gainey		Section, Township, Range:	Cape Fear Township	_				
Landform (hillside, terrace, etc.): terrace	Lo	ocal relief (concave, convex,		Slope (%):	0.5			
Subregion (LRR or MLRA): LRR P, MLRA	_	•	79.0214		NAD83			
Soil Map Unit Name: CrB—Creedmoor-Gr			NWI classifica		147 1200			
				-	- \			
Are climatic / hydrologic conditions on the s				explain in Remark				
Are Vegetation, Soil, or Hyd			Circumstances" present?		. No			
Are Vegetation, Soil, or Hyd	rologynaturally prob	lematic? (If needed, ex	plain any answers in Re	emarks.)				
SUMMARY OF FINDINGS – Attac	h site map showing	sampling point locati	ons, transects, im	portant featu	res, 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:								
Per Antecedent Precipitation Tool - Norma	l conditions							
HYDROLOGY								
Wetland Hydrology Indicators:			Secondary Indicators		required)			
Primary Indicators (minimum of one is required)		(5.1.1)	Surface Soil Crac		(5.6)			
Surface Water (A1)	True Aquatic Plants		Sparsely Vegetate		ce (B8)			
High Water Table (A2)	Hydrogen Sulfide Od		X Drainage Patterns					
x Saturation (A3)		res on Living Roots (C3)	Moss Trim Lines					
Water Marks (B1) Sediment Deposits (B2)	Presence of Reduce							
Drift Deposits (B3)	Thin Muck Surface (duction in Tilled Soils (C6) Crayfish Burrows (C8) ace (C7) Saturation Visible on Aerial Imagery (C9)						
Algal Mat or Crust (B4)	Other (Explain in Re		Stunted or Stress		, (00)			
Iron Deposits (B5)			Geomorphic Posi					
Inundation Visible on Aerial Imagery (I	37)	Shallow Aquitard (D3)						
X Water-Stained Leaves (B9)	,		Microtopographic	` ,				
Aquatic Fauna (B13)			FAC-Neutral Test	(D5)				
Field Observations:								
Surface Water Present? Yes	No X Depth (inch	nes):						
Water Table Present? Yes	No X Depth (inch	nes):						
Saturation Present? Yes X	No Depth (inch	nes): 0 Wetland	Hydrology Present?	Yes X	No			
(includes capillary fringe)								
Describe Recorded Data (stream gauge, n	nonitoring well, aerial photos	s, previous inspections), if a	vailable:					
Remarks:								
Remarks.								

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: DP WS Absolute Dominant Indicator Species? Tree Stratum (Plot size: 30' % Cover Status **Dominance Test worksheet:** 1. Pinus taeda 40 Yes FAC **Number of Dominant Species** 2. Acer rubrum 40 Yes FAC That Are OBL, FACW, or FAC: (A) 3. **Total Number of Dominant** Species Across All Strata: 4. 6 (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 66.7% (A/B) Prevalence Index worksheet: 80 =Total Cover Total % Cover of: 50% of total cover: 20% of total cover: **OBL** species x 1 = **FACW** species Sapling/Shrub Stratum (Plot size: 30' x 2 =0 95 llex opaca 10 **FACU FAC** species x 3 = 285 1. **FACU** species 50 2. x 4 =3. UPL species 0 x 5 = 0 4. Column Totals: 145 (A) 485 (B) 5. Prevalence Index = B/A = 6. **Hydrophytic Vegetation Indicators:** 1 - Rapid Test for Hydrophytic Vegetation 7. 8. X 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.01 9. 4 - Morphological Adaptations¹ (Provide supporting 10 =Total Cover data in Remarks or on a separate sheet) 50% of total cover: 5 20% of total cover: Herb Stratum (Plot size: Problematic Hydrophytic Vegetation¹ (Explain) Microstegium vimineum ¹Indicators 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 more in diameter at breast height (DBH), regardless of 5. height. 6. 7. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft 8. (1 m) tall. 10. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. =Total Cover Woody Vine - All woody vines greater than 3.28 ft in 20% of total cover: 50% of total cover: Woody Vine Stratum (Plot size: 15') Smilax rotundifolia 40 Yes **FACU** 2. Vitis rotundifolia 10 FAC Yes 3. 4. Hydrophytic 50 =Total Cover Vegetation 50% of total cover: 20% of total cover: Present? Yes X No Remarks: (Include photo numbers here or on a separate sheet.) sphagnum moss present

SOIL Sampling Point: DP WS

	ription: (Describe t	o the dep				ator or co	onfirm the absence	of indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Featur %	es Type ¹	Loc ²	Texture	Remarks
0-1	10YR 3/1	100	Color (moist)	70	Турс		Loamy/Clayey	Kemana
1-12	10YR 4/1	80	10YR 6/6	20	С	PL	Loamy/Clayey	Prominent redox concentrations
						<u> </u>		
¹ Type: C=Co	oncentration, D=Deplo	etion, RM	=Reduced Matrix, M	 IS=Mas	ked Sand	d Grains.		n: PL=Pore Lining, M=Matrix. cators for Problematic Hydric Soils ³ :
Black His Hydroger Stratified 2 cm Muc X Depleted Thick Da Sandy Mi Sandy Gl Sandy Re	ipedon (A2) stic (A3) n Sulfide (A4) Layers (A5) ck (A10) (LRR N) Below Dark Surface rk Surface (A12) ucky Mineral (S1) leyed Matrix (S4) edox (S5)	· (A11)	Polyvalue Be Thin Dark Su Loamy Muck Loamy Gleye X Depleted Ma Redox Dark Depleted Da Redox Depre Iron-Mangan MLRA 136	urface (S cy Miner ed Matri trix (F3) Surface rk Surfa essions ese Ma S)	(F6) (MLR) (F6) (F6) (F8) (F8) (MLRA)	A 147, 1. ILRA 130 2) (LRR I	48)	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
Stripped Dark Sur	Matrix (S6) face (S7)		Piedmont Flo					wetland hydrology must be present, unless disturbed or problematic.
	.ayer (if observed):						, , -,	, , , , , , , , , , , , , , , , , , ,
Type:								
Depth (in	ches):						Hydric Soil Pres	ent? Yes X No No

WETLAND DETERMINATION DATA SHEET – Eastern Mountains and Piedmont Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: The Conservancy / Moncure A	Assemblage	City/County: Chatham		Sampling Date:	10/06/2020			
Applicant/Owner: The Conservancy Rea	l Estate Group, LLC		State: NC	Sampling Point:	DP WU1			
Investigator(s): D. Gainey		Section, Township, Range: C	ape Fear Township	_				
Landform (hillside, terrace, etc.): terrace	Lo	cal relief (concave, convex, no	ne): concave	Slope (%):	0.5			
Subregion (LRR or MLRA): LRR P, MLRA 1	36 Lat: 35.6720	Long: -79.	.0288	Datum:	NAD83			
Soil Map Unit Name: CrC—Creedmoor-Gree			NWI classifica	tion:				
Are climatic / hydrologic conditions on the sit	•			explain in Remark	s)			
Are Vegetation, Soil, or Hydro			umstances" present?					
			in any answers in Re		. 140			
Are Vegetation, Soil, or Hydro SUMMARY OF FINDINGS – Attach	<u> </u>		•	,	res, etc.			
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes X No Yes X No	Is the Sampled Area within a Wetland?	YesX	No				
Per Antecedent Precipitation Tool - Normal HYDROLOGY	conditions							
Wetland Hydrology Indicators:		<u>S</u>	econdary Indicators	(minimum of two	equired)			
Primary Indicators (minimum of one is requi	red; check all that apply)		Surface Soil Crac	ks (B6)				
Surface Water (A1)	True Aquatic Plants	_	Sparsely Vegetate		ce (B8)			
X High Water Table (A2)	Hydrogen Sulfide Oc		Drainage Patterns					
Saturation (A3)		heres on Living Roots (C3) Moss Trim Lines (B16)						
Water Marks (B1)		duced Iron (C4) Dry-Season Water Table (C2) Cap field Purpose (C9)						
Sediment Deposits (B2) Drift Deposits (B3)	Thin Muck Surface (duction in Tilled Soils (C6) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)						
Algal Mat or Crust (B4)	Other (Explain in Re							
Iron Deposits (B5)	Outer (Explain in No.							
Inundation Visible on Aerial Imagery (B	7)	Geomorphic Position (D2) Shallow Aquitard (D3)						
X Water-Stained Leaves (B9)	. ,	Microtopographic Relief (D4)						
Aquatic Fauna (B13)			FAC-Neutral Test	` ,				
Field Observations:								
Surface Water Present? Yes	No X Depth (inch	es):						
Water Table Present? Yes X	No Depth (inch							
Saturation Present? Yes	No X Depth (inch	es): Wetland Hy	drology Present?	Yes X	No			
(includes capillary fringe)								
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos	s, previous inspections), if avail	lable:					
Remarks:								

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: DP WU1 Absolute Dominant Indicator Species? Tree Stratum (Plot size: 30' % Cover Status **Dominance Test worksheet:** 1. Pinus taeda 40 Yes FAC **Number of Dominant Species** 40 2. Liriodendron tulipifera Yes FACU That Are OBL, FACW, or FAC: (A) 3. **Total Number of Dominant** 4. Species Across All Strata: 3 (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 66.7% (A/B) Prevalence Index worksheet: 80 =Total Cover Total % Cover of: 40 50% of total cover: 20% of total cover: **OBL** species x 1 = Sapling/Shrub Stratum (Plot size: 30' **FACW** species x 2 =40 **FAC** species x 3 = 120 1. **FACU** species 40 160 2. x 4 = 3. UPL species 0 x 5 = 0 90 Column Totals: (A) 300 4. (B) 5. Prevalence Index = B/A = 6. **Hydrophytic Vegetation Indicators:** 1 - Rapid Test for Hydrophytic Vegetation 7. 8. X 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.01 4 - Morphological Adaptations¹ (Provide supporting =Total Cover data in Remarks or on a separate sheet) 50% of total cover: 20% of total cover: Herb Stratum (Plot size: 5') Problematic Hydrophytic Vegetation¹ (Explain) Carex sp. 10 ¹Indicators 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 more in diameter at breast height (DBH), regardless of 5. height. 6. 7. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft 8. (1 m) tall. 10. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. 10 =Total Cover Woody Vine - All woody vines greater than 3.28 ft in 20% of total cover: 50% of total cover: Woody Vine Stratum (Plot size: 15') 2. 3. Hydrophytic =Total Cover Vegetation 50% of total cover: 20% of total cover: Present? Yes X No Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: DP WU1

	ription: (Describe t	o the dep				ator or co	onfirm the ab	sence of	f indicators.)
Depth	Matrix			k Featur		. 2	_		
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture		Remarks
0-12	10YR 4/2	80	10YR 6/6	20	C	PL	Loamy/Clay	yey	
									_
	·								
¹Type: C=Co	ncentration, D=Deple	etion. RM:	=Reduced Matrix. M	 IS=Mas	ked Sand	Grains	2	ocation:	PL=Pore Lining, M=Matrix.
Hydric Soil I			Troduced manny n						tors for Problematic Hydric Soils ³ :
Histosol			Polyvalue Be	low Su	rface (S8	(MLRA	147, 148)		cm Muck (A10) (MLRA 147)
	ipedon (A2)		Thin Dark Su			-	-		past Prairie Redox (A16)
Black His			Loamy Muck				-		(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye				•		edmont Floodplain Soils (F19)
Stratified	Layers (A5)		X Depleted Ma	trix (F3)					(MLRA 136, 147)
2 cm Mu	ck (A10) (LRR N)		Redox Dark	Surface	(F6)			R	ed Parent Material (F21)
Depleted	Below Dark Surface	(A11)	Depleted Da	rk Surfa	ce (F7)				(outside MLRA 127, 147, 148)
Thick Da	rk Surface (A12)		Redox Depre	essions	(F8)			V	ery Shallow Dark Surface (F22)
Sandy M	ucky Mineral (S1)		Iron-Mangan	ese Ma	sses (F12	2) (LRR N	١,	0	ther (Explain in Remarks)
	leyed Matrix (S4)		MLRA 136	•				0	
	edox (S5)		Umbric Surfa				-		ators of hydrophytic vegetation and
	Matrix (S6)		Piedmont Flo				-		etland hydrology must be present,
	face (S7)		Red Parent N	Material	(F21) (M	LRA 127	, 147, 148)	ur	nless disturbed or problematic.
	.ayer (if observed):								
Type:									
Depth (in	ches):						Hydric Soi	Presen	t? Yes X No
Remarks:									

WETLAND DETERMINATION DATA SHEET – Eastern Mountains and Piedmont Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: The Conservancy / Moncure A	Assemblage	City/County: Chatham		_Sampling Date:	10/06/2020		
Applicant/Owner: The Conservancy Rea	I Estate Group, LLC		State: NC	Sampling Point:	DP WU2		
Investigator(s): D. Gainey		Section, Township, Range:	Cape Fear Township	_			
Landform (hillside, terrace, etc.): terrace	Lo	cal relief (concave, convex,		Slope (%):	0.5		
Subregion (LRR or MLRA): LRR P, MLRA 1	•	•	79.0287		NAD83		
Soil Map Unit Name: CrC—Creedmoor-Gre			NWI classifica		147 1200		
					- \		
Are climatic / hydrologic conditions on the sit	,,			explain in Remark			
Are Vegetation, Soil, or Hydro			ircumstances" present?		. No		
Are Vegetation, Soil, or Hydro	ologynaturally probl	ematic? (If needed, exp	olain any answers in Re	emarks.)			
SUMMARY OF FINDINGS – Attach	site map showing	sampling point location	ons, transects, im	portant featu	res, etc.		
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled Area					
Hydric Soil Present?	Yes No X	within a Wetland?	Yes	No X			
Wetland Hydrology Present?	Yes No X						
Remarks:	<u> </u>						
Per Antecedent Precipitation Tool - Normal	conditions						
HYDROLOGY							
Wetland Hydrology Indicators:			Secondary Indicators	(minimum of two	required)		
Primary Indicators (minimum of one is requi	red; check all that apply)		Surface Soil Crac	` '			
Surface Water (A1)	True Aquatic Plants		Sparsely Vegetate		ce (B8)		
High Water Table (A2)	Hydrogen Sulfide Oc		Drainage Patterns				
Saturation (A3)		res on Living Roots (C3)	Moss Trim Lines (
Water Marks (B1)	Presence of Reduce		Dry-Season Water Table (C2)				
Sediment Deposits (B2)		on in Tilled Soils (C6) Crayfish Burrows (C8)					
Drift Deposits (B3)	Thin Muck Surface (<u>—</u>					
Algal Mat or Crust (B4) Iron Deposits (B5)	Other (Explain in Re	marks)	Stunted or Stress				
Inundation Visible on Aerial Imagery (B	7)	Geomorphic Position (D2) Shallow Aguitard (D3)					
Water-Stained Leaves (B9)	1)		Shallow Aquitard (D3) Microtopographic Relief (D4)				
Aquatic Fauna (B13)			FAC-Neutral Test	` '			
Field Observations:				()			
Surface Water Present? Yes	No X Depth (inch	es):					
Water Table Present? Yes	No X Depth (inch						
Saturation Present? Yes	No X Depth (inch		Hydrology Present?	Yes	No X		
(includes capillary fringe)	<u> </u>	·					
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos	s, previous inspections), if a	vailable:				
Remarks:							

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: DP WU2 Absolute Dominant Indicator Species? Tree Stratum (Plot size: 30') % Cover Status **Dominance Test worksheet:** Pinus taeda 70 Yes FAC **Number of Dominant Species** 10 2. Nyssa sylvatica No FAC That Are OBL, FACW, or FAC: (A) 3. **Total Number of Dominant** 4. Species Across All Strata: (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 100.0% (A/B) Prevalence Index worksheet: 80 =Total Cover Total % Cover of: 40 50% of total cover: 20% of total cover: **OBL** species 0 x 1 = Sapling/Shrub Stratum (Plot size: 30' **FACW** species x 2 = 80 x 3 = FAC species **FACU** species 0 x 4 = 2. 3. UPL species 0 x 5 = 0 80 Column Totals: (A) 4. 240 (B) Prevalence Index = B/A = 6. **Hydrophytic Vegetation Indicators:** 1 - Rapid Test for Hydrophytic Vegetation 8. X 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.01 4 - Morphological Adaptations¹ (Provide supporting =Total Cover data in Remarks or on a separate sheet) 50% of total cover: ____ 20% of total cover: Herb Stratum (Plot size: 5') Problematic Hydrophytic Vegetation¹ (Explain) 1. ¹Indicators of hydric soil and wetland hydrology must be 2. present, unless disturbed or problematic. 3. **Definitions of Four Vegetation Strata:** Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of 5. height. 6. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft 8. (1 m) tall. 10. Herb - All herbaceous (non-woody) plants, regardless 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: 20% of total cover: Woody Vine Stratum (Plot size: 15') 2. 3. Hydrophytic =Total Cover Vegetation 50% of total cover: 20% of total cover: Present? Yes X No Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: DP WU2

	•	to the de	pth needed to docu			ator or co	onfirm the abs	sence of indi	cators.)	
Depth	Matrix			Featur		. 2			_	
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture		Ren	narks
0-12	10YR 4/4	100					Loamy/Clay	yey		
¹Type: C=Co	ncentration D=Denl	etion RM	=Reduced Matrix, M	IS-Mas	ked Sand		21	ocation: PL=F	Pore Lining M	M-Matrix
Hydric Soil I		Ction, reiv	-reduced Watrix, W	iO=ivias	ikea Garie	J Oranis.				atic Hydric Soils ³ :
Histosol (Polyvalue Be	low Su	rface (S8	(MLRA	147. 148)		uck (A10) (M	-
	ipedon (A2)		Thin Dark Su			-	-		rairie Redox	•
Black His			Loamy Muck				-		A 147, 148)	` ,
	Sulfide (A4)		Loamy Gleye				•	-	nt Floodplain	Soils (F19)
Stratified	Layers (A5)		Depleted Ma	trix (F3))			(MLR	A 136, 147)	
2 cm Mud	ck (A10) (LRR N)		Redox Dark	Surface	(F6)			Red Pa	rent Material	(F21)
Depleted	Below Dark Surface	(A11)	Depleted Da	k Surfa	ice (F7)			(outs	ide MLRA 12	27, 147, 148)
Thick Da	rk Surface (A12)	Redox Depre			Very Sh	allow Dark S	Surface (F22)			
	ucky Mineral (S1)		Iron-Mangan		sses (F12	2) (LRR 1	١,	Other (I	Explain in Re	marks)
	eyed Matrix (S4)		MLRA 136	•				0		
Sandy Re			Umbric Surfa				-			c vegetation and
	Matrix (S6)		Piedmont Flo				-			nust be present,
Dark Sur	face (S7)		Red Parent N	/laterial	(F21) (M	LRA 127	, 147, 148)	unless	disturbed or p	oroblematic.
	ayer (if observed):									
Type:										
Depth (in	cnes):						Hydric Soi	Present?	Yes	No _X
Remarks:										

WETLAND DETERMINATION DATA SHEET – Eastern Mountains and Piedmont Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: The Conservancy / Moncure A	Assemblage	City/County: Chat	ham		Sampling Date:	10/06/2020			
Applicant/Owner: The Conservancy Rea	al Estate Group, LLC	<u> </u>		State: NC	Sampling Point:	DP WWD1			
Investigator(s): K. Hamlin/ P. Beach	•	Section, Township, Ra	ange: Cape F	ear Township					
Landform (hillside, terrace, etc.): hillside		cal relief (concave, con			Slope (%):	0.5			
			_						
Subregion (LRR or MLRA): LRR P, MLRA 1	-		ng: <u>-79.0326</u>		Datum:	NAD83			
Soil Map Unit Name: <u>CrC—Creedmoor-Gre</u>				NWI classificati					
Are climatic / hydrologic conditions on the sit	e typical for this time of year	ar? Yes	X No_	(If no, e	explain in Remark	s.)			
Are Vegetation, Soil, or Hydro	ologysignificantly di	sturbed? Are "Norn	nal Circumsta	ances" present?	Yes X	No			
Are Vegetation, Soil, or Hydro	ologynaturally probl	ematic? (If needed	d, explain any	answers in Re	marks.)				
SUMMARY OF FINDINGS – Attach	site map showing s	sampling point lo	cations, tra	ansects, im	portant featu	res, etc.			
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled Area	а						
Hydric Soil Present?	Yes No X	within a Wetland?		Yes	No X				
Wetland Hydrology Present?	Yes No X								
Remarks: Per Antecedent Precipitation Tool - Normal	conditions								
HYDROLOGY									
Wetland Hydrology Indicators:			Second	dary Indicators (minimum of two	required)			
Primary Indicators (minimum of one is requi	red; check all that apply)		Su	rface Soil Crack	ks (B6)				
Surface Water (A1)	True Aquatic Plants				ed Concave Surfa	ce (B8)			
High Water Table (A2)	Hydrogen Sulfide Oc			X Drainage Patterns (B10)					
Saturation (A3)		res on Living Roots (C3		Moss Trim Lines (B16)					
Water Marks (B1)	Presence of Reduce		Dry-Season Water Table (C2)						
Sediment Deposits (B2)		on in Tilled Soils (C6)							
Drift Deposits (B3)	Thin Muck Surface (Other (Explain in Re	•	Saturation Visible on Aerial Imagery (C9)						
Algal Mat or Crust (B4) Iron Deposits (B5)	Other (Explain in Re	marks)	Stunted or Stressed Plants (D1)						
Inundation Visible on Aerial Imagery (B	7)	Geomorphic Position (D2) Shallow Aquitard (D3)							
Water-Stained Leaves (B9)	• ,	Shallow Aquitard (D3) Microtopographic Relief (D4)							
Aquatic Fauna (B13)				.C-Neutral Test					
Field Observations:					· ·				
Surface Water Present? Yes	No X Depth (inch	es):							
Water Table Present? Yes	No X Depth (inch								
Saturation Present? Yes	No X Depth (inch	es): Wetla	and Hydrolog	gy Present?	Yes	No X			
(includes capillary fringe)									
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos	s, previous inspections)	, if available:						
Remarks:									

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

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:
1. Pinus taeda	60	Yes	FAC	Number of Dominant Species
2.				That Are OBL, FACW, or FAC: 4 (A)
3.				Total Number of Dominant
4.				Species Across All Strata: 6 (B)
5.				·′′
6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 66.7% (A/B)
				Prevalence Index worksheet:
7		T-1-1 O		
		=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 9 x 2 = 18
1. Pinus taeda	10	No	FAC	FAC species 139 x 3 = 417
2. Liquidambar styraciflua	60	Yes	FAC	FACU species10 x 4 =40
3.				UPL species 0 x 5 = 0
4.				Column Totals: 158 (A) 475 (B)
5.				Prevalence Index = B/A = 3.01
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 ¹
		=Total Cover		4 - Morphological Adaptations (Provide supporting
50% of total cover:	35 20%	of total cover:	14	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5')				Problematic Hydrophytic Vegetation ¹ (Explain)
Smilax rotundifolia	2	No	FAC	¹ Indicators of hydric soil and wetland hydrology must be
2. Lonicera japonica	5	Yes	FACU	present, unless disturbed or problematic.
3. Vitis rotundifolia	2	No	FAC	Definitions of Four Vegetation Strata:
4. Liquidambar styraciflua	5	Yes	FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
5. Carex sp.	5	Yes	FACW	more in diameter at breast height (DBH), regardless of
6. Juncus effusus	2	No	FACW	height.
	2		FACW	
7. Boehmeria cylindrica		No	FACVV	Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft
8				(1 m) tall.
9				
10				Herb – All herbaceous (non-woody) plants, regardless
11				of size, and woody plants less than 3.28 ft tall.
	23	=Total Cover		Woody Vine – All woody vines greater than 3.28 ft in
50% of total cover:	12 20%	of total cover:	5	height.
Woody Vine Stratum (Plot size: 15')				
Lonicera japonica	5	Yes	FACU	
2.	-			
3.				
4				
5				Hydrophytic
		=Total Cover		Vegetation
50% of total cover:	3 20%	of total cover:	1	Present? Yes X No No
Remarks: (Include photo numbers here or on a se	parate sheet.)			

Sampling Point: DP WWD1

SOIL Sampling Point: DP WWD1

Depth	nption: (Describe t Matrix	o tne dep	oth needed to doc Redo	ument t x Featu		itor or co	ontirm the absen	ce ot indi	cators.)		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Rer	narks	
0-4	10YR 6/3	50	, ,				Loamy/Clayey		50% 10YR 6/	6 mixed matrix	
4-12	10YR 6/3	60				_	Loamy/Clayey	20%	10YR 6/2, 20%	10YR 6/6 mixed mat	trix
					<u> </u>						
¹Type: C=Co	ncentration, D=Depl	etion, RM	=Reduced Matrix, N	лS=Mas	ked Sand	Grains.	² Loca	tion: PL=	Pore Lining, I	M=Matrix.	
Black His Hydroger Stratified 2 cm Mu Depleted Thick Da Sandy M Sandy G Sandy R	A1) pedon (A2)	(A11)	Polyvalue Bo Thin Dark So Loamy Muck Loamy Gley Depleted Ma Redox Dark Depleted Da Redox Depre Iron-Mangar MLRA 130 Umbric Surfa	urface (\$ xy Miner ed Matri atrix (F3) Surface rk Surfa essions nese Ma 6)	S9) (MLR al (F1) (M x (F2) al (F6) al (F7) (F8) al (F8) sses (F12) (MLRA	A 147, 14 ILRA 136 2) (LRR N	147, 148)	2 cm M Coast I (MLF Piedmo (MLF Red Pa (outs Very Si Other (luck (A10) (M Prairie Redox RA 147, 148) ont Floodplair RA 136, 147) arent Material side MLRA 1 hallow Dark S Explain in Re	(A16) n Soils (F19) (F21) 27, 147, 148) Gurface (F22)	
Dark Sur			Red Parent				-		disturbed or		
Restrictive L	ayer (if observed):										
Type:									.,		
Depth (in Remarks:	ches):						Hydric Soil Pr	esent?	Yes	NoX	

WETLAND DETERMINATION DATA SHEET – Eastern Mountains and Piedmont Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Applicant/Owner: The Conservancy Real Estate Group, LLC Investigator(s): S. Clark Section, Township, Range: Cape Fear Township Local relief (concave, convex, none): concave Slope (%): 0.5	020						
Investigator(s): S. Clark Section, Township, Range: Cape Fear Township	<u></u>						
Subregion (LRR or MLRA): LRR P, MLRA 136 Lat: 35.6667 Long: -79.0258 Datum: NAD83							
Soil Map Unit Name: CrC—Creedmoor-Green Level complex, 6 to 10 percent slopes NWI classification: PFO							
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)							
Are Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circumstances" present? YesX _ No	_						
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)							
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, et	c.						
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:							
HYDROLOGY							
Wetland Hydrology Indicators: Secondary Indicators (minimum of two required))						
Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6)							
Surface Water (A1)True Aquatic Plants (B14)Sparsely Vegetated Concave Surface (B8)							
High Water Table (A2) Hydrogen Sulfide Odor (C1) X Drainage Patterns (B10)							
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)							
X Drift Deposits (B3) Thin Muck Surface (C7) Saturation Visible on Aerial Imagery (C9) Other (Fundsirin Reported)							
Algal Mat or Crust (B4)Other (Explain in Remarks)Stunted or Stressed Plants (D1)							
Iron Deposits (B5) Geomorphic Position (D2) Shallow Aguitard (D3)							
Inundation Visible on Aerial Imagery (B7) Shallow Aquitard (D3) Wignet operation of Police (D4)							
X Water-Stained Leaves (B9) Microtopographic Relief (D4)							
X Water-Stained Leaves (B9) Aquatic Fauna (B13) Microtopographic Relief (D4) FAC-Neutral Test (D5)							
X Water-Stained Leaves (B9) Aquatic Fauna (B13) Field Observations: Microtopographic Relief (D4) FAC-Neutral Test (D5)							
X Water-Stained Leaves (B9) Aquatic Fauna (B13) Field Observations: Surface Water Present? Yes No X Depth (inches):							
X Water-Stained Leaves (B9) Microtopographic Relief (D4) Aquatic Fauna (B13) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches):							
X Water-Stained Leaves (B9)							
X Water-Stained Leaves (B9) Aquatic Fauna (B13) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes X No (includes capillary fringe)	_						
X Water-Stained Leaves (B9)							
X Water-Stained Leaves (B9) Aquatic Fauna (B13) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes X No (includes capillary fringe)							
X Water-Stained Leaves (B9) Aquatic Fauna (B13) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes X No (includes capillary fringe)							
X Water-Stained Leaves (B9) Aquatic Fauna (B13) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes X No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:							
X Water-Stained Leaves (B9) Aquatic Fauna (B13) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes X No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:							
X Water-Stained Leaves (B9) Aquatic Fauna (B13) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes X No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	_						
X Water-Stained Leaves (B9) Aquatic Fauna (B13) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes X No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:							
X Water-Stained Leaves (B9) Aquatic Fauna (B13) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes X No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	_						
X Water-Stained Leaves (B9) Aquatic Fauna (B13) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes X No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	_						

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: DP XF1 Absolute Dominant Indicator Tree Stratum (Plot size: ____30') % Cover Species? **Dominance Test worksheet:** Status 1. **Number of Dominant Species** 2. That Are OBL, FACW, or FAC: (A) 3. **Total Number of Dominant** Species Across All Strata: 2 (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 100.0% (A/B) Prevalence Index worksheet: =Total Cover Total % Cover of: 50% of total cover: 20% of total cover: **OBL** species x 1 = Sapling/Shrub Stratum (Plot size: 30' **FACW** species x 2 =55 Pinus taeda 30 FAC FAC species x 3 = 165 10 Acer rubrum 15 Yes FAC **FACU** species x 4 = 2. 10 No FAC 0 x 5 = 0 3. Liquidambar styraciflua UPL species Vaccinium corymbosum 10 **FACW** 75 4. No Column Totals: 225 (A) (B) 5. llex opaca 10 No **FACU** Prevalence Index = B/A = 3.00 6. **Hydrophytic Vegetation Indicators:** 7. 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% 8. X 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting 75 =Total Cover data in Remarks or on a separate sheet) 50% of total cover: 38 20% of total cover: Herb Stratum (Plot size: 5') Problematic Hydrophytic Vegetation¹ (Explain) 1. ¹Indicators of hydric soil and wetland hydrology must be 2. present, unless disturbed or problematic. 3. **Definitions of Four Vegetation Strata:** Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of 5. height. 6. 7. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless 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: 20% of total cover: Woody Vine Stratum (Plot size: 15') 2. 3. Hydrophytic =Total Cover Vegetation 50% of total cover: 20% of total cover: Present? Yes X No Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: DP XF1

	-	to the dep				tor or c	onfirm the absence	of indicators.)				
Depth (inches)	Matrix	0/		K Featur		1 2	Tandon	Dagaarda				
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks				
0-1	10YR 2/1	100					Loamy/Clayey					
1-5	10YR 4/1	100					Loamy/Clayey					
5-12	10YR 6/1	95	10YR 5/8	5	C	<u>PL</u>	Loamy/Clayey Prominent redox concentra					
		·		_	<u> </u>	_						
¹ Type: C=Co	ncentration, D=Depl	etion, RM	=Reduced Matrix, N	1S=Mas	ked Sand	d Grains.	² Locatio	n: PL=Pore Lining, M=Matrix.				
Hydric Soil I		•	· · · · · · · · · · · · · · · · · · ·					cators for Problematic Hydric Soils ³ :				
Histosol (Polyvalue Be	low Sur	face (S8)	(MLRA		2 cm Muck (A10) (MLRA 147)				
	ipedon (A2)		Thin Dark Su					Coast Prairie Redox (A16)				
Black His	stic (A3)		Loamy Muck					(MLRA 147, 148)				
Hydroger	n Sulfide (A4)		Loamy Gleye	ed Matri	x (F2)			Piedmont Floodplain Soils (F19)				
Stratified	Layers (A5)		X Depleted Ma	trix (F3)			_	(MLRA 136, 147)				
2 cm Mud	ck (A10) (LRR N)		Redox Dark	Surface	(F6)			Red Parent Material (F21)				
Depleted	Below Dark Surface	(A11)	Depleted Dar	rk Surfa	ce (F7)			(outside MLRA 127, 147, 148)				
Thick Da	rk Surface (A12)		Redox Depre	ssions	(F8)			Very Shallow Dark Surface (F22)				
Sandy M	ucky Mineral (S1)		Iron-Mangan	ese Mas	sses (F12	2) (LRR I	N,	Other (Explain in Remarks)				
	leyed Matrix (S4)		MLRA 136	•			2					
	edox (S5)		Umbric Surfa				-	icators of hydrophytic vegetation and				
	Matrix (S6)		Piedmont Flo					wetland hydrology must be present,				
Dark Surf			Red Parent N	/laterial	(F21) (M	LRA 127	7, 147, 148) -	unless disturbed or problematic.				
	.ayer (if observed):											
Type:	ah a a \.						Hudria Cail Broa	out? Yes Y No				
Depth (in	cnes):						Hydric Soil Pres	ent? Yes X No				
Remarks:												

WETLAND DETERMINATION DATA SHEET – Eastern Mountains and Piedmont Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: The Conservancy / Moncure A	Assemblage	City/County: Chatham		_Sampling Date:	10/08/2020			
Applicant/Owner: The Conservancy Rea	I Estate Group, LLC		State: NC	Sampling Point:	DP XG1			
Investigator(s): D. Gainey		Section, Township, Range:	Cape Fear Township	_				
Landform (hillside, terrace, etc.): floodplain	Lo	cal relief (concave, convex,		Slope (%):	1			
Subregion (LRR or MLRA): LRR P, MLRA 1			79.0274		NAD83			
Soil Map Unit Name: CrC—Creedmoor-Gre			NWI classifica		147 1200			
					- \			
Are climatic / hydrologic conditions on the sit	•			explain in Remark				
Are Vegetation, Soil, or Hydro			ircumstances" present?		. No			
Are Vegetation, Soil, or Hydro	ologynaturally probl	ematic? (If needed, exp	olain any answers in Re	emarks.)				
SUMMARY OF FINDINGS – Attach	site map showing	sampling point location	ons, transects, im	portant featu	res, 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	William a Wolland	<u> </u>					
Remarks:								
Per Antecedent Precipitation Tool - Normal	conditions							
·								
HYDROLOGY								
Wetland Hydrology Indicators:			Secondary Indicators	(minimum of two	required)			
Primary Indicators (minimum of one is requi	red; check all that apply)		Surface Soil Crac	ks (B6)				
Surface Water (A1)	True Aquatic Plants		Sparsely Vegetate		ce (B8)			
High Water Table (A2)	Hydrogen Sulfide Od		X Drainage Patterns					
X Saturation (A3)		res on Living Roots (C3)	Moss Trim Lines (
Water Marks (B1)	Presence of Reduce		Dry-Season Wate					
Sediment Deposits (B2)		duction in Tilled Soils (C6) Crayfish Burrows (C8)						
Drift Deposits (B3)	Thin Muck Surface (
Algal Mat or Crust (B4)	Other (Explain in Re	marks)	Stunted or Stress					
Iron Deposits (B5)	7\	Geomorphic Position (D2) Shallow Aquitard (D3)						
Inundation Visible on Aerial Imagery (B' Water-Stained Leaves (B9)	<i>(</i>)		Microtopographic					
Aquatic Fauna (B13)			FAC-Neutral Test	` '				
Field Observations:		Ī		(50)				
Surface Water Present? Yes	No X Depth (inch	AC).						
Water Table Present? Yes	No X Depth (inch							
Saturation Present? Yes X	No Depth (inch		Hydrology Present?	Yes X	No			
(includes capillary fringe)			,		—			
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos	s, previous inspections), if a	vailable:					
Remarks:								

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: DP XG1 Absolute Dominant Indicator Species? Tree Stratum (Plot size: 30' % Cover Status **Dominance Test worksheet:** 1. Acer rubrum 50 Yes FAC **Number of Dominant Species** 2. Liquidambar styraciflua 50 Yes FAC That Are OBL, FACW, or FAC: (A) 3. **Total Number of Dominant** 4. Species Across All Strata: (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 100.0% (A/B) Prevalence Index worksheet: 100 =Total Cover Total % Cover of: 50% of total cover: 50 20% of total cover: **OBL** species x 1 = **FACW** species Sapling/Shrub Stratum (Plot size: 30' x 2 =**FAC** species 180 x 3 = 540 1. **FACU** species 2. x 4 = 3. UPL species 0 x 5 = 0 Column Totals: 180 (A) 4. 540 (B) 5. Prevalence Index = B/A = 3.00 6. **Hydrophytic Vegetation Indicators:** 1 - Rapid Test for Hydrophytic Vegetation 7. 8. X 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting =Total Cover data in Remarks or on a separate sheet) 50% of total cover: 20% of total cover: Herb Stratum (Plot size: Problematic Hydrophytic Vegetation¹ (Explain) Microstegium vimineum ¹Indicators 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 more in diameter at breast height (DBH), regardless of 5. height. 6. 7. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft 8. (1 m) tall. 10. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. 60 =Total Cover Woody Vine - All woody vines greater than 3.28 ft in 50% of total cover: 20% of total cover: Woody Vine Stratum (Plot size: 15') 1. Smilax rotundifolia 2. 3. 4. Hydrophytic 20 =Total Cover Vegetation 50% of total cover: 20% of total cover: Present? Yes X No Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: DP XG1

	ription: (Describe to	o the de				ator or c	onfirm the absence	of indicators.)	
Depth	Matrix			x Featur		. 2	- .		
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks	
0-1	10YR 4/4	80	10YR 6/6	20	<u>C</u>	PL	Loamy/Clayey	Distinct redox concentrations	
1-12	10YR 4/2	80	10YR 6/6	20	С	PL	Loamy/Clayey		
									
¹ Type: C=Co	ncentration, D=Deple	etion, RM	=Reduced Matrix, M	1S=Mas	ked Sand	Grains.	² Locatio	n: PL=Pore Lining, M=Matrix.	
Hydric Soil I	ndicators:						Indi	cators for Problematic Hydric Soils ³ :	
Histosol (Polyvalue Be	elow Sui	rface (S8	(MLRA	147, 148)	2 cm Muck (A10) (MLRA 147)	
Histic Ep	pedon (A2)		Thin Dark Surface (S9) (MLRA 147, 1				48)	Coast Prairie Redox (A16)	
Black His	` '		Loamy Muck			ILRA 13	6)	(MLRA 147, 148)	
	Sulfide (A4)		Loamy Gleye					Piedmont Floodplain Soils (F19)	
Stratified	Layers (A5)		X Depleted Ma					(MLRA 136, 147)	
	ck (A10) (LRR N)		Redox Dark					Red Parent Material (F21)	
	Below Dark Surface	(A11)	Depleted Da					(outside MLRA 127, 147, 148)	
	rk Surface (A12)		Redox Depre					Very Shallow Dark Surface (F22)	
	ucky Mineral (S1)		Iron-Mangan		sses (F12	2) (LRR I	N,	Other (Explain in Remarks)	
	eyed Matrix (S4)		MLRA 136	•			3		
	edox (S5)		Umbric Surface (F13) (MLRA 122, 136						
	Matrix (S6)		Piedmont Floodplain Soils (F19) (MLR Red Parent Material (F21) (MLRA 127						
Dark Sur	, ,		Red Parent I	Material	(F21) (M	LRA 127	7, 147, 148) T	unless disturbed or problematic.	
	ayer (if observed):								
Type:	-h \.						Hudria Cail Bros	out? Yes v. No	
Depth (in	cnes):						Hydric Soil Pres	ent? Yes x No	
Remarks:									

WETLAND DETERMINATION DATA SHEET – Eastern Mountains and Piedmont Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: The Conservancy / Moncure A	ssemblage	City/County: Chatham		Sampling Date: 10/0	08/2020		
Applicant/Owner: The Conservancy Rea	l Estate Group, LLC		State: NC	Sampling Point: DI	P XG2		
Investigator(s): D. Gainey	·	Section, Township, Range	: Cape Fear Township				
Landform (hillside, terrace, etc.): terrace	Lo	cal relief (concave, convex,		Slope (%):	0		
Subregion (LRR or MLRA): LRR P, MLRA 1			79.0279	Datum: NA	D83		
Soil Map Unit Name: CrC—Creedmoor-Gree			NWI classifica				
Are climatic / hydrologic conditions on the sit				explain in Remarks.)			
, ,							
Are Vegetation, Soil, or Hydro	· · · · · · · · · · · · · · · · · · ·		Circumstances" present		'——		
Are Vegetation, Soil, or Hydro			plain any answers in Re				
SUMMARY OF FINDINGS – Attach	site map showing s	sampling point locati	ons, transects, im	portant 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:							
Per Antecedent Precipitation Tool - Normal	conditions						
HYDROLOGY							
Wetland Hydrology Indicators:			Secondary Indicators	(minimum of two requ	ired)		
Primary Indicators (minimum of one is requi			Surface Soil Crac				
Surface Water (A1)	True Aquatic Plants		Sparsely Vegetated Concave Surface (B8)				
High Water Table (A2)	Hydrogen Sulfide Oc						
X Saturation (A3)		spheres on Living Roots (C3) Moss Trim Lines (B16)					
Water Marks (B1)	Presence of Reduce		Dry-Season Water Table (C2)				
Sediment Deposits (B2)		on in Tilled Soils (C6)	Crayfish Burrows (C8)				
Drift Deposits (B3)	Thin Muck Surface (Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	Other (Explain in Re	marks)	Stunted or Stressed Plants (D1)				
Iron Deposits (B5)		Geomorphic Position (D2)					
Inundation Visible on Aerial Imagery (B	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						
Water Table Present? Yes	No X Depth (inch						
Saturation Present? Yes X	No Depth (inch	es): 2 Wetland	Hydrology Present?	Yes X No	'		
(includes capillary fringe)			21.11				
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos	s, previous inspections), if a	vailable:				
Remarks:							
Tromano.							

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: DP XG2 Absolute Dominant Indicator Tree Stratum (Plot size: 30' % Cover Species? Status **Dominance Test worksheet:** 1. Acer rubrum 30 Yes FAC **Number of Dominant Species** 2. Liquidambar styraciflua 30 Yes FAC That Are OBL, FACW, or FAC: (A) Yes 3. Quercus nigra 30 FAC **Total Number of Dominant** 4. Species Across All Strata: (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 100.0% (A/B) Prevalence Index worksheet: 90 =Total Cover Total % Cover of: 50% of total cover: 45 20% of total cover: **OBL** species x 1 = **FACW** species Sapling/Shrub Stratum (Plot size: 30' x 2 =90 **FAC** species x 3 = 270 1. **FACU** species 2. x 4 = 3. UPL species 0 x 5 = 0 Column Totals: 150 (A) 375 4. (B) 5. Prevalence Index = B/A = 6. **Hydrophytic Vegetation Indicators:** 1 - Rapid Test for Hydrophytic Vegetation 7. 8. X 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting =Total Cover data in Remarks or on a separate sheet) 50% of total cover: 20% of total cover: Herb Stratum (Plot size: Problematic Hydrophytic Vegetation¹ (Explain) Osmundastrum cinnamomeum Yes **FACW** ¹Indicators of hydric soil and wetland hydrology must be 15 2. Osmunda spectabilis Yes OBL present, unless disturbed or problematic. 5 3. Woodwardia areolata No **FACW Definitions of Four Vegetation Strata:** 4. Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of 5. height. 6. 7. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft 8. (1 m) tall. 10. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. 60 =Total Cover Woody Vine - All woody vines greater than 3.28 ft in 50% of total cover: 30 20% of total cover: Woody Vine Stratum (Plot size: 15') 2. 3. Hydrophytic =Total Cover Vegetation 50% of total cover: 20% of total cover: Present? Yes X No Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: DP XG2

	ription: (Describe t	o the de				ator or c	onfirm the absence	of indicators.)	
Depth (inches)	Matrix	0/		x Featur		1002	Toyeturo	Domostro	
(inches) 0-2	Color (moist) 10YR 4/2	100	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks	
<u> </u>	101114/2	100					Loamy/Clayey		
2-12	10YR 5/1	80	10YR 6/6	20	<u>C</u>	PL	Loamy/Clayey	Prominent redox concentrations	
	ncentration, D=Deple	etion, RM	=Reduced Matrix, N	1S=Mas	ked Sand	d Grains.		n: PL=Pore Lining, M=Matrix.	
Hydric Soil I			Dala salua Da	.l C	f (CO	(MI DA		cators for Problematic Hydric Soils ³ :	
Histosol (Polyvalue Below Surface (S8) (MLRA						
	ipedon (A2)		Thin Dark Surface (S9) (MLRA 147, 1 Loamy Mucky Mineral (F1) (MLRA 13)						
Black His	n Sulfide (A4)		Loamy Gleye			ILKA 13	-	(MLRA 147, 148)	
	Layers (A5)		X Depleted Ma					Piedmont Floodplain Soils (F19) (MLRA 136, 147)	
	ck (A10) (LRR N)		Redox Dark						
	Below Dark Surface	(Δ11)	Depleted Da				Red Parent Material (F21) (outside MLRA 127, 147, 148)		
	rk Surface (A12)	(7.11)	Redox Depre				,	Very Shallow Dark Surface (F22)	
	ucky Mineral (S1)		Iron-Mangan			2) (I RR I		Other (Explain in Remarks)	
	leyed Matrix (S4)		MLRA 136			-, (-	<u> </u>	Curior (Explain in recinance)	
	edox (S5)			•	3) (MLRA	122, 13	3Indi	cators of hydrophytic vegetation and	
	Matrix (S6)		Umbric Surface (F13) (MLRA 122, 136 Piedmont Floodplain Soils (F19) (MLR				· · · · · · · · · · · · · · · · · · ·		
	face (S7)		Red Parent I		,		-	unless disturbed or problematic.	
Restrictive L	ayer (if observed):								
Type:									
Depth (in	iches):						Hydric Soil Prese	ent? Yes X No No	
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

OMB Control #: 0710-xxxx, Exp: Pending Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: The Conservancy / Moncure A	ssemblage	City/County: Chatham		Sampling Date:	10/08/2020
pplicant/Owner: The Conservancy Real Estate Group, LLC			State: NC	Sampling Point:	DP XG3
nvestigator(s): D. Gainey		Section, Township, Range: Cape Fear Township		_	
Landform (hillside, terrace, etc.): terrace	Lo	cal relief (concave, convex, no		Slope (%):	0.5
Subregion (LRR or MLRA): LRR P, MLRA 1	•	Long: -79	•	Datum:	NAD83
Soil Map Unit Name: CrC—Creedmoor-Gree			NWI classifica		1471200
		•			
Are climatic / hydrologic conditions on the site				explain in Remark	
Are Vegetation, Soil, or Hydro			cumstances" present?		No
Are Vegetation, Soil, or Hydro	logynaturally proble	ematic? (If needed, expla	ain any answers in Re	emarks.)	
SUMMARY OF FINDINGS – Attach	site map showing s	sampling point location	ns, transects, im	portant featu	res, 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: Per Antecedent Precipitation Tool - Normal	conditions				
HYDROLOGY Wetland Hydrology Indicators:			Secondary Indicators	(minimum of two	required)
Primary Indicators (minimum of one is requi	red: check all that apply)	<u>></u>	Surface Soil Crac	•	<u>equirea)</u>
Surface Water (A1)	True Aquatic Plants	(B14)	Sparsely Vegetate	, ,	ce (B8)
High Water Table (A2)	Hydrogen Sulfide Oc	-	Drainage Patterns		(-,
X Saturation (A3)	X Oxidized Rhizospher	_	Moss Trim Lines (
Water Marks (B1)	Presence of Reduce	d Iron (C4)	Dry-Season Wate	r Table (C2)	
Sediment Deposits (B2)	Recent Iron Reduction	on in Tilled Soils (C6)	Crayfish Burrows	(C8)	
Drift Deposits (B3)	Thin Muck Surface (· ·	Saturation Visible		/ (C9)
Algal Mat or Crust (B4)	arks) Stunted or Stressed Plants (D1)				
Iron Deposits (B5)	_,	-	Geomorphic Posit	, ,	
Inundation Visible on Aerial Imagery (B7	()	_	Shallow Aquitard		
X Water-Stained Leaves (B9) Aquatic Fauna (B13)		-	Microtopographic X FAC-Neutral Test	` '	
Field Observations:		<u> </u>	A PAC-Neutral Test	(D3)	
Surface Water Present? Yes	No X Depth (inch	oe).			
Water Table Present? Yes	No X Depth (inch				
Saturation Present? Yes X	No Depth (inch		/drology Present?	Yes X	No
(includes capillary fringe)		´ 			
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos	s, previous inspections), if ava	ilable:		
Remarks:					
Tromano.					

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: DP XG3 Absolute Dominant Indicator Species? Tree Stratum (Plot size: 30' % Cover Status **Dominance Test worksheet:** 1. Pinus taeda 20 Yes FAC **Number of Dominant Species** 2. Liquidambar styraciflua Yes FAC That Are OBL, FACW, or FAC: (A) 3. **Total Number of Dominant** Species Across All Strata: 6 4. (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 83.3% (A/B) Prevalence Index worksheet: 80 =Total Cover Total % Cover of: 50% of total cover: 20% of total cover: **OBL** species x 1 = **FACW** species Sapling/Shrub Stratum (Plot size: x 2 =Liquidambar styraciflua 15 FAC **FAC** species 110 330 Yes x3 =Acer rubrum FAC **FACU** species 2. Yes x 4 = 3. UPL species 0 x 5 = 0 4. Column Totals: 140 (A) 390 (B) 5. Prevalence Index = B/A = 6. **Hydrophytic Vegetation Indicators:** 1 - Rapid Test for Hydrophytic Vegetation 7. 8. X 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0¹ 9. 4 - Morphological Adaptations¹ (Provide supporting =Total Cover data in Remarks or on a separate sheet) 50% of total cover: 20% of total cover: Herb Stratum (Plot size: Problematic Hydrophytic Vegetation¹ (Explain) Osmundastrum cinnamomeum Yes **FACW** ¹Indicators of hydric soil and wetland hydrology must be 2. Carex sp. Yes present, unless disturbed or problematic. 3. **Definitions of Four Vegetation Strata:** 4. Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of 5. height. 6. 7. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft 8. (1 m) tall. 10. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. 90 =Total Cover Woody Vine - All woody vines greater than 3.28 ft in 45 50% of total cover: 20% of total cover: Woody Vine Stratum (Plot size: 15') 2. 3. Hydrophytic =Total Cover Vegetation 50% of total cover: 20% of total cover: Present? Yes X No Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: DP XG3

	ription: (Describe to	o the de				ator or c	onfirm the absence	of indicators.)
Depth	Matrix			x Featur		12	Tandona	Demode
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
0-1	10YR 4/4	80	10YR 6/6	20	<u>C</u>	PL	Loamy/Clayey	
1-12	10YR 4/1	80	10YR 6/6	20	<u> </u>		Loamy/Clayey	Prominent redox concentrations
		<u> </u>		<u> </u>	<u> </u>	<u> </u>		
1Typo: C-Co	ncentration, D=Deple		——————————————————————————————————————		kod Sand		² L ocation	n: PL=Pore Lining, M=Matrix.
Hydric Soil I	•	ellon, Rivi	=Reduced Matrix, N	io=ivias	ked Sand	Giains.		cators for Problematic Hydric Soils ³ :
Histosol	(A1)		Polyvalue Be			-	147, 148)	2 cm Muck (A10) (MLRA 147)
	ipedon (A2)		Thin Dark Su	•	, ,		·	Coast Prairie Redox (A16)
Black His	, ,		Loamy Muck	•	. , .	ILRA 13	•	(MLRA 147, 148)
	Sulfide (A4)		Loamy Gleye					Piedmont Floodplain Soils (F19)
	Layers (A5)		X Depleted Ma					(MLRA 136, 147)
	ck (A10) (LRR N)	(8.4.4)	Redox Dark					Red Parent Material (F21)
	Below Dark Surface	(A11)	Depleted Da					(outside MLRA 127, 147, 148)
	rk Surface (A12) ucky Mineral (S1)		Redox Depre			o) / DD		Very Shallow Dark Surface (F22) Other (Explain in Remarks)
	eyed Matrix (S4)		MLRA 136		5565 (F 12	2) (LKK I	<u> </u>	Other (Explain in Remarks)
	edox (S5)		Umbric Surfa	•	R) (MI RA	122 13	3Indi	cators of hydrophytic vegetation and
	Matrix (S6)		Piedmont Flo				-	wetland hydrology must be present,
Dark Sur			Red Parent I		,		-	unless disturbed or problematic.
Restrictive L	ayer (if observed):							
Type:	,							
Depth (in	ches):						Hydric Soil Pres	ent? Yes ^X No
Remarks:							<u> </u>	



	Watershed Protection Department	
	Website: www.chathamnc.org	
. D	DI #	

Date Received: Pl	_#
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Riparian Buffer Review Application Surface Water Identification Request for Major Subdivisions

<u>Tract Information</u>
Parcel #: see attached table Watershed District (and name of creek if known):
Property Owner: see attached table
Location/Physical Address of Tract: 35.666933°N, 79.026928°W
Driving Directions from Pittsboro:Travel south from Pittsboro & turn east on Moncur-Pittsboro Rd. Turn
left onto US-1 North and take exit 81 to Pea Ridge Rd. Travel north on Pea Ridge for 2.2 miles. Turn right on New Elam Church Rd. and continue for
0.8 mile. Turn left on Partian Rd (SR1908). Site is +/-0.7 mile beyond pavement. Note: Google incorrectly labeled Partian Rd as Partin Rd.
Subdivision Name (if applicable): The Conservancy
Owner's/Agent Contact Information (Agent: Consultant, Real Estate Agent, Surveyor, Other) Circle one
Name: Mr. Andrew Ross - The Conservancy Real Estate Group
Contact Phone Numbers: (h)(w)(c) <u>919-703-6203</u>
E-mail: andrew.ross@floyddevelopment.com
Mailing Address: 4201 Taylor Hall Place, Chapel Hill, NC 27517
Do you wish to be contacted prior to Chatham County staff visiting the property? ✓ Yes ☐ No
How much notice is required prior to arrival onsite? 1 week
How would you like to receive the completed review letter? (Please check one of the following) ☐ 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
Please include the following items with this request
Completed consultant findings report including the following:
☑ GIS generated or hand drawn sketch of surface water features found onsite (Buffer Plan Sheet)
No smaller than 1"=60' and paper size 11"x17" or larger
✓ NCDWQ Stream Identification Forms, Version 4.11, Wetland Determination Data Form –



Watershed Protection Department Website: www.chathamnc.org

Riparian Buffer Review Application Surface Water Identification Request

Eastern	Mountains and Piedmon	t Region, digital ph	notographs, notes, sketches, etc.
☑ NRCS map v	with property boundary d	epicted	
USGS map w	vith property boundary d	epicted	
☑ Statement of	Credentials (Training C	ertificate for NCDV	WQ/NC State University Surface
Waters	Classification course, 2	ears of jurisdiction	nal wetland delineation according to
the East	ern Mountains and Pieds	nont Regional Supp	plement to the 1987 US Corps of
Enginee	ers Wetland Delineation	Manual)	
Signed Right to Enter	Property Form		
☑ Signed Owner's Agen	t Designation Form		
Fee (make checks pay	able to Chatham County	\$100 per feature	confirmed onsite
Feature is defined as an wetlands, ponds)	y surface water that is s	ubject to Chatham (County Riparian Buffers (streams,
Total Number of	f Features	To	otal Paid: §
I have read and understan agree to adhere to these a			on Ordinance, Section 304, and I
Owner/Agent Signature:	(1)		Date: 10-00-2020





CHATHAM COUNTY

AUTHORIZED AGENT FOR FORM

ROPERTY LEGAL DESCRIPTION	
LOT NO. see attached table PARCEI	LID (PIN) see attached table PARCEL SIZE +/- 1,367 acres
STREET ADDRESS; see attached table	s
Please print: Property Owner: The Conservancy Real	Ectata Graup III C
	Estate Group, LEC
Property Owner:	
The undersigned owner(s) of the abo	ve described property, do hereby authorize
Sean Clark	, of Sage Ecological Services, Inc.
(Contractor / Agent)	(Name of consulting firm if applicable)
Evaluation/inspection/permit	n Control Permit luate, or expand onsite wastewater system(s) ting of a private drinking water well(s). tuant to §304 of the Chatham Co. Watershed Protection Ordinance.
Property Owner's Address (if diffe	erent than property above):
Telephone: 9(9-703-6203	E-mail: <u>andrewross 6420 gmail.com</u>
We hereby certify the above information knowledge	tion submitted in this application is true and accurate to the best of our
Owner Authorized Signature	Agent Authorized Signature
Date: 10-00-2020	Date:



P.O. Box 548 Pittsboro, NC 27312

Website: www.chathamnc.org

Authorization to Enter Property Form

Date: 10/6/030
PARCEL No. (AKPAR) 5774, 5775 Challen Capill Grap LL Cad Music Row L
I, (print name) GOVE CREEK PROPERTY, LLC , 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.
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.
(Print Owner's Name) (Print Owner's Name) (Signature of Owner) (Date) (Date)
Sean Clark Sean Clark
(Print Authorized Agent Name) d Agent)

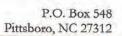
(Date)



P.O. Box 548 Pittsboro, NC 27312

Website: www.chathamnc.org

Date:	
	5558,5569,5780,60441,65274,65275,5570
I, (print name) EQUITY TRI	UST CO CUST FBO CHRISTINA ZADELL IRA, as owner of the property described above,
or as a representative of the	e owner(s) do hereby convey permission to Chatham County staff to enter the property at
their convenience to conduc	t a surface water identification (SWID) necessary to determine whether or not water features
on my property are subject t	o 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 re	quested in the future for review by interested parties.
I understand that stream de	lineations for the property listed above will be made by County staff only once and that if
future subdivisions are prop	osed within this property boundary, it will require a surface water identification by a private
consultant at the property ov	wner's expense.
Christina Zade	11 AZulle
(Print Owner's Name)	(Signature of Owner) (Date)
Sean Clark	Sean Clark
(Print Authorized Agent Nat	me) d Agent)





Website: www.chathamnc.org

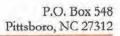
Date: 10/6/2006 Authorizati	on to Enter Property Form
PARCEL No. (AKPAR) 5233	
I, (print name) MUSIC ROW INVEST	MENTS LLC , as owner of the property described above,
or as a representative of the owner(s) do here	by convey permission to Chatham County staff to enter the property at
their convenience to conduct a surface water id	entification (SWID) necessary to determine whether or not water features
on my property are subject to the riparian buffe	r regulations described in Section 304 of the Chatham County Watershed
Protection Ordinance. The SWID will be p	ublic record and on file at the Planning and Watershed Protection
Departments, and may be requested in the future	re for review by interested parties.
	roperty listed above will be made by County staff only once and that if
consultant at the property owner's expense.	operty boundary, it will require a surface water identification by a private
Eric Brownles	Esic Draway
(Print Owner's Name)	(Signature of Owner) (Date) 10/6/2020
Sean Clark	Sean Clark
(Print Authorized Agent Name)	d Agent)



P.O. Box 548 Pittsboro, NC 27312

Website: www.chathamnc.org

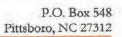
Authorization	on to Enter P	roperty Form
Date: 10/5/20		
PARCEL No. (AKPAR) 5559, 69379		
I, (print name) COPELAND WILLIAM	RAGAN	, as owner of the property described above,
or as a representative of the owner(s) do hereb	by convey permission	to Chatham County staff to enter the property at
their convenience to conduct a surface water ide	entification (SWID) no	ccessary to determine whether or not water features
on my property are subject to the riparian buffe	r regulations described	l in Section 304 of the Chatham County Watershed
Protection Ordinance. The SWID will be p	ublic record and on	file at the Planning and Watershed Protection
Departments, and may be requested in the future	re for review by interes	sted parties.
I understand that stream delineations for the p	property listed above v	will be made by County staff only once and that if
future subdivisions are proposed within this pro-	operty boundary, it wi	ll require a surface water identification by a private
consultant at the property owner's expense.	, ,	
William RAGAN GOOLAN	Signature of S	Dwner) Jok Exa
(Pinit Owner's Ivanie)	(Date)	0195/00
Sean Clark	Sean C	
(Print Authorized Agent Name)	(Signature of I (Date)	Authorized Agent)





Website: www.chathamnc.org

Date:		
PARCEL No. (AKPAR) 62390		
I, (print name) RICE RONALD JOSI	EPH	as owner of the property described above,
or as a representative of the owner(s) do her	eby convey permission	to Chatham County staff to enter the property at
their convenience to conduct a surface water i	dentification (SWID) ne	cessary to determine whether or not water features
on my property are subject to the riparian buf	fer regulations described	l 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 fut	ure for review by interes	sted parties.
I understand that stream delineations for the	property listed above v	vill be made by County staff only once and that it
future subdivisions are proposed within this p	property boundary, it wi	Il require a surface water identification by a private
consultant at the property owner's expense.	Kon	Id Rice
(Print Owner's Name)	(Signature of C (Date)	Owner) 10-6-20
Sean Clark	Sean Ce	Park
(Print Authorized Agent Name)	(Date)	ed Agent)





Website: www.chathamnc.org

Date: (0/6(20)0	
PARCEL No. (AKPAR) 5211,5238,5551,5519	
I, (print name) 3 Boys Capital, LLC/SB Capital, LLC/Chatham Capital Group, LLC	as owner of the property described above,
or as a representative of the owner(s) do hereby convey permission to Ch	natham County staff to enter the property at
their convenience to conduct a surface water identification (SWID) necessar	ry to determine whether or not water features
on my property are subject to the riparian buffer regulations described in Se	ection 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 p	arties.
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 requ	ire a surface water identification by a private
consultant at the property owner's expense.	
(Print Owner's Name) (Print Owner's Name) (Signature of Owner (Date)	5/2015 10/6/2020
Sean Clark Sean Clary	le le
(Print Authorized Agent Name) (Date)	d Agent)



Website: www.chathamne.org

Date: 0/6/2020
PARCEL No. (AKPAR) 5504,85339,85340,85341,85342,85343,85344,85346,85347
I, (print name) UNIQUE NAME LLC 3 Boys Captal Las owner of the property described abo
or as a representative of the owner(s) do hereby convey permission to Chatham County staff to enter the property
their convenience to conduct a surface water identification (SWID) necessary to determine whether or not water feature
on my property are subject to the riparian buffer regulations described in Section 304 of the Chatham County Watersl
Protection Ordinance. The SWID will be public record and on file at the Planning and Watershed Protect
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
future subdivisions are proposed within this property boundary, it will require a surface water identification by a private subdivisions are proposed within this property boundary, it will require a surface water identification by a private subdivision of the
consultant at the property owner's expense.
Kicken Styors Daton hope
(Print Owner's Name) (Signature of Owner) 10/6/2026
Sean Clark Sean Clark
(Print Authorized Agent Name) ed Agent)