

WATERSHED PROTECTION DEPARTMENT

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

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

August 25, 2020

Ms. Lauren Norris-Heflin Timmons Group 5410 Trinity Road, Suite 102 Raleigh, NC 27607

Project Name:	Savannah Ridge (Parcel 11229)
Location:	1052 Moncure School Road, Chatham County
Subject Features:	<u>Three (3) ephemeral segments, two (2) intermittent</u> segments, one (1) perennial segment, eleven (11) wetlands
Date of	July 28, 2020

Determination: Explanation:

The site visit was completed on July 28, 2020 by Drew Blake with the Chatham County Watershed Protection Department and Morgan Gilbert & Lauren Norris-Heflin of Timmons Group on a property identified as Chatham County Parcel# 11229 that is located outside of the Jordan Lake watershed. Timmons Group submitted a request for Chatham County to complete a formal review to determine if the features would be subject to riparian buffers according to Section 304 of the Chatham County Watershed Protection Ordinance. All points of origin, stream type transitions, and wetland boundaries were reviewed in the field.

Required Riparian Buffers:

The required riparian buffers described below are based on the surface water features identified on the included Figure 6 and its associated table, completed by Timmons Group. The ephemeral streams will require a 30-ft buffer from the top of bank landward. The intermittent streams will require a 50-ft buffer from the top of bank landward on both sides of the feature. The perennial streams will require a 100-ft buffer from the top of bank landward on both sides of the feature.

The wetland boundaries flagged in the field by Timmons Group have been reviewed and confirmed by the US Army Corps of Engineers (USACE). A 50-ft buffer will be required beginning at the flagged boundary and proceeding landward of any flagged wetlands determined jurisdictional by the USACE. Eight (8) of the eleven (11) wetlands identified on the property were deemed non-jurisdictional by the USACE. Per Section 304 (A) of the Chatham County Watershed Protection Ordinance, non-jurisdictional wetlands will require a 50-ft buffer from the flagged boundary.

Impacts to Riparian Buffers:

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



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

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

Respectfully,

Drew Blake

Drew Blake Senior Watershed Specialist, CESSWI

Enclosures: Exhibit 1: Surface Water Features Approximate Locations – Completed by Chatham County Figure 1: Site Vicinity Map –completed by Timmons Group Figure 2: Hydrologic Unit Code Map – Completed by Timmons Group Figure 3: Environmental Inventory Map – Completed by Timmons Group Figure 4: Parcel Map – Completed by Timmons Group Figure 5: NRCS Soil Survey – Completed by Timmons Group Figure 6: Wetlands & Waters of the US Delineation Map – completed by Timmons Group Timmons Group Stream ID Forms Timmons Group Wetland Determination Forms Major Subdivision Riparian Buffer Application Authorized Agent Form Authorization to Enter Property Form

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









- Origin-Perennial

- Review Corners
- GPSDataCollection_SCM_427 0

GPSDataCollection_RiparianStreams_7499

Intermittent Ephemeral

Perennial

GPSDataCollection_WetlandBoundaries_8192

GPSDataCollection_ReviewBoundaries_9921 Parcels ł

Service Layer Credits: Chatham County, Chatham County Environmental Quality, Chatham County GIS



Date: 8/20/2020 Time: 2:23:38 PM











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LOOKD VZOEE		CHATHAM COUNTY, NORTH CAROLINA	FIGURE 6: WETLANDS AND WATERS OF THE U.S. DELINEATION MAP	s and associated documents are the exclusive property of TIMMONS GROUP and may not be reproduced in whole or in part and shall r
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Chatham County Potential Waters

Perennial/Intermittent Stream	Jurisdictional Wetland	Jurisdictional Wetland	Jurisdictional Wetland	Intermittent Stream*	Ephemeral Stream**	Ephemeral Stream	Ephemeral Stream	Non-jurisdictional Wetland							
Feature A	Feature L	Feature M	Feature N	Feature O	Feature A	Feature B	Feature C	Feature D	Feature E	Feature F	Feature G	Feature H	Feature I	Feature J	Feature K



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PSA-3941-1

Date: 1/9/20	Project/Site: /	Gonaure	Latitude: 35.62946		
Evaluator: S. Thebest, M. Gilbert	County: Che	than	Longitude: -;	9.082.224	
Total Points:Stream is at least intermittentif \geq 19 or perennial if \geq 30*	Stream Determin Ephemeral Inter	nation (circle one) mittent Perennia)	Other Merre	y Carks	
A. Geomorphology (Subtotal = 26-25,5	Absent	Weak	Moderate	Strong	
1 ^a Continuity of channel bed and bank	0	1	2	(3)	
2. Sinuosity of channel along thalweg	0	1	2	(3)	
 In-channel structure: ex_riffle-pool, step-pool, ripple-pool sequence 	0	1	2	3	
4. Particle size of stream substrate	0	1	2	3	
5. Active/relict floodplain	0	1	2	3	
6. Depositional bars or benches	0	1	2	3	
7. Recent alluvial deposits	0	1	2	3	
8. Headcuts	0		2	3	
9. Grade control	0	0.5	0	1.5	
10, Natural valley	0	0.5) -	Ð	1.5	
11. Second or greater order channel	No	= 0	Yes	3	
B. Hydrology (Subtotal = (O)) 12. Presence of Baseflow		4	2	6)	
12. I reserve of Dasenow	0		2	0	
14 Loof littor	0	8	2	3	
14. Leal litter	1.5		0.5	0	
15. Sediment on plants of debris	0	0.5	1	1.5	
17. Soil-based evidence of high water table?	0 0.5		1 (1.5)		
C Piology (Subtotal =	NU	-0	Tes	- 3.)	
C. Diology (Subiolal =)	2			-	
10. Piblious foots in streambed	3	0	1	0	
20 Macrobenthos (note diversity and shundenes)	0		1	0	
21. Aquatic Mollusks			2	3	
22 Fish		0.5	2	3	
23 Cravfish		0.5		1.5	
24 Amphihians		0.5	4	1.5	
		0.5	1	1.5	
26 Wetland plants in streambed	- 0		-15 (1400-)	1.5	
*nerennial streams may also be identified using other method	Coop 25 of manual	1 AGVV - 0,75, OBL	- 1.5 Other = 0	9	
Notes:	s. See p. 35 of manual	·		5	
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PSA-39A1-2

Date: 1/10/20	Project/Site: M	oncure	Latitude: 35.63424 Longitude:-79,08407		
Evaluator: S. Thebert, M. Gilbert	County: Che	tham			
Total Points: Stream is at least intermittent if ≥ 19 or perennial if ≥ 30*	Stream Determin Ephemeral Inter	nation (circle one) mittent (Perennial)	Other Merre	y Oaks	
A. Geomorphology (Subtotal = <u>(3</u>)	Absent	Weak	Moderate	Strong	
1 ^a Continuity of channel bed and bank	0	1	2	(3)	
2. Sinuosity of channel along thalweg	0	1	2	57	
 In-channel structure: ex. riffle-pool, step-pool, ripple-pool sequence 	0	1	Ì	3	
4. Particle size of stream substrate	0	1	2	3	
5. Active/relict floodplain	Ø	1	2	3	
Depositional bars or benches	Ø	1	2	3	
7. Recent alluvial deposits	Ø	1	2	3	
8. Headcuts	Ø	1	2	3	
9. Grade control	0	0.5	Ø	1.5	
10. Natural valley	0	0.5	\bigcirc	1.5	
11. Second or greater order channel	(No	=05	Yes	= 3	
artificial ditches are not rated; see discussions in manual B. Hvdrology (Subtotal = 9)					
12. Presence of Baseflow	0	1	2	3	
13. Iron oxidizing bacteria	0	\bigcirc	2	3	
14. Leaf litter	(1.5)	1	0.5	0	
15. Sediment on plants or debris	Ø	0.5	1	1.5	
16. Organic debris lines or piles	0	0.5	1	(1.5)	
17. Soil-based evidence of high water table?	No	= 0	Yes	3)	
C. Biology (Subtotal = 8)			~		
18. Fibrous roots in streambed	3	2	1	0	
19. Rooted upland plants in streambed	67	2	1	0	
20. Macrobenthos (note diversity and abundance)	Ő	Ø	2	3	
21. Aquatic Mollusks	O	1	2	3	
22. Fish	Ø	0.5	1	1_5	
23. Crayfish	\bigcirc	0.5	1	1.5	
24. Amphibians	0	0.5	1	1.5	
25. Algae	0	0.5	1	(1.5)	
26. Wetland plants in streambed		FACW = 0.75; OBL	= 1.5 Other = 6		
*perennial streams may also be identified using other metho	ds. See p. 35 of manual			-	
Votes:					

PSA-39 (1-1

NC DWQ Stream Identification Form Version 4.11

Project/Site: M	oncure	Latitude: 35,63058			
County: Che	than				
Stream Determin Ephemeral Inter	nation (circle one) mittent Perennia	Other Me e.g. Quad Name:	rry Oaks		
Absent	Weak	Moderate	Strong		
0	1	(2)	3		
0	Ø	2	3		
0		20	3		
0	1	(2)	3		
Q	1	2	3		
0	1	2	3		
6	1	2	3		
0	1	2	3		
(0)	0.5	1	1.5		
0	0.5>	1	1.5		
No	60=	Yes = 3			
0		2	3		
$\overline{(0)}$	1	2	3		
1.5	1	(15)	0		
(0)	0.5		1.5		
0	(0.5)	1	1.5		
No	= 0	Yes =	= 37		
3	2	0	0		
(3)	2	1	0		
(0)	1	2	3		
0	1	2	3		
0	0.5	1	15		
	0.5	1	1.5		
0	0.5	1	1.5		
<u> </u>	0.5	1	1.5		
/0/					
	FACW = 0.75' O	BI = 15 Other = 0	1.0		
ds. See p. 35 of manual	FACW = 0.75; O	BL = 1.5 Other = 0	1.0		
	County: Che Stream Determine Phemeral Inter Absent 0 0 0 0 0 0 0 0 0 0 0 0 0	County:ChathanStream Determination (circle one) Ephemeral Intermittent PerenniaAbsentWeak0101010101010101010101010100.500.500.500.500.500.500.500.50101010100.500.500.500.500.500.500.5	County: Chathan Longitude: - Stream Determination (circle one) Other Me $Me e.g. Quad Name:$ Absent Weak Moderate 0 1 $O = 0$		

PSA-3961-1

Date: 1/19/20	Project/Site: /	oneurc	Latitude: 3 5	63037	
Evaluator: S. Thebert, M. Gilbert	County: Chec	tham	Longitude: -	79.0820	
Total Points: Stream is at least intermittent if \geq 19 or perennial if \geq 30* 15, 5–18.5	Stream Determin Ephemeral Inte	nation (circle one) rmittent Perennial	Other Merre e.g. Quad Name:	y Oaks	
A. Geomorphology (Subtotal =)	Absent	Weak	Moderate	Strong	
1 ^a Continuity of channel bed and bank	0	1	67	3	
2. Sinuosity of channel along thalweg	0	DET	(1)	3	
3. In-channel structure: ex. riffle-pool, step-pool, ripple-pool sequence	0		0	3	
4. Particle size of stream substrate	0	1	(2)	3	
5. Active/relict floodplain	0	m	2	3	
6. Depositional bars or benches	\bigcirc	1	2	3	
7. Recent alluvial deposits	6)	1	2	3	
8. Headcuts	0)	1	2	3	
9. Grade control	8	0.5	1	1.5	
10. Natural valley	0 <	- (0.5)	1	1.5	
11. Second or greater order channel	(No	= 05	Yes = 3		
B. Hydrology (Subtotal =) 12. Presence of Baseflow		1	2	3	
13. Iron oxidizing bacteria	0	1	2	3	
14. Leaf litter	1.5		(0.5)	0	
15. Sediment on plants or debris	0	03	1	15	
16. Organic debris lines or piles	0	(05)	1	1.5	
17. Soil-based evidence of high water table?	No	= 0	Yes =3		
C. Biology (Subtotal =)			<u> </u>	2	
18. Fibrous roots in streambed	3	2	(1)	0	
19. Rooted upland plants in streambed	3	2	1	0	
20 Macrobenthos (note diversity and abundance)	6	1	2	3	
21. Aquatic Mollusks	\bigcirc	1	2	3	
22. Fish	0	0.5	1	1.5	
23. Crayfish	0	0.5	1	1.5	
24. Amphibians	To l	0.5	1	1.5	
25. Algae	$\overline{(0)}$	0.5	1	1.5	
26. Wetland plants in streambed		FACW = 0.75; OBL	= 1.5 Other = 0	>	
*perennial streams may also be identified using other method	s. See p. 35 of manual				
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PSA-39+11-1

Date: 1/4/20	Project/Site:	Monence	Latitude: 35,	629914
Evaluator: S. Thebert, M. Gilbe	of County: Chu	atham	Longitude: -7	9.081836
Total Points: Stream is at least intermittent $if \ge 19$ or perennial if $\ge 30^*$	Stream Determi Ephemeral Inte	nation (circle one) rmittent Perennial	Other Mer e.g. Quad Name:	ry Oaks
A. Geomorphology (Subtotal = 1.5)	Absent	Weak	Moderate	Strong
1 ^a Continuity of channel bed and bank	0	0	2	3
2 Sinuosity of channel along thalweg	(0)	1	2	3
3. In-channel structure: ex. riffle-pool, step-pool, ripple-pool sequence	Ō	1	2	3
4. Particle size of stream substrate	O	1	2	3
5. Active/relict floodplain	0	1	2	3
6 Depositional bars or benches	Ø	1	2	3
7. Recent alluvial deposits	O	1	2	3
8. Headcuts	(2)	1	2	3
9. Grade control	0	0.5	1	1.5
10. Natural valley	0	0.5	1	1.5
11. Second or greater order channel	No		Yes	= 3
B. Hydrology (Subtotal = <u>1.5</u>) 12. Presence of Baseflow		1	2	3
13 Iron oxidizing bacteria	Q	1	2	3
14. Leaf litter	15	1	(05)	0
15. Sediment on plants or debris	0	(05)	1	15
16. Organic debris lines or piles	0	(05)	1	15
17. Soil-based evidence of high water table?	No	ED C	Yes	= 3
C. Biology (Subtotal = 4)			1000	
18. Fibrous roots in streambed	3	2	a	0
19. Rooted upland plants in streambed	3	2	1	0
20. Macrobenthos (note diversity and abundance)	Ø	1	2	3
21. Aquatic Mollusks	0	1	2	3
22. Fish	(0)	0.5	1	1.5
23. Crayfish	0	0.5	1	1.5
24 Amphibians	(\mathfrak{d})	0.5	1	15
25 Algae	0	0.5	1	1.5
26. Wetland plants in streambed		FACW = 0.75; OBI	= 1.5 Other = 0	0
*perennial streams may also be identified using other meth	ods. See p. 35 of manua			
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PSA-39J1-1

Date: 1/9/20	Project/Site:	Moncure	Latitude: 35,628465		
Evaluator: S. Thebert, M. Gilbert	County: Che	than	Longitude: -	79.08220	
Total Points:Stream is at least intermittentif ≥ 19 or perennial if $\geq 30^*$ 13-14	Stream Determin Ephemeral Inter	nation (circle one) rmittent Perennial	Other Merry Oaks e.g. Quad Name:		
A. Geomorphology (Subtotal = 6-7)	Absent	Weak	Moderate	Strong	
1 ^a Continuity of channel bed and bank	0	(1)	2	3	
2. Sinuosity of channel along thalweg	0	1	(2)	3	
 In-channel structure: ex. riffle-pool, step-pool, ripple-pool sequence 	0	0	2	3	
4. Particle size of stream substrate	0	() ->	2)	3	
5. Active/relict floodplain	6	1	2	3	
6. Depositional bars or benches	Q	1	2	3	
7. Recent alluvial deposits	0	1	2	3	
8. Headcuts	6	1	2	3	
9. Grade control	02	0.5	1	1.5	
10 Natural valley	39	0.5	1	1.5	
11 Second or greater order channel	No	= 0	Yes	= 3	
^a artificial ditches are not rated; see discussions in manual B. Hydrology (Subtotal = 4)	S. 23				
12. Presence of Baseflow	6	1	2	3	
13. Iron oxidizing bacteria		1	2	3	
14. Leaf litter	1.5	1	(0.5)	0	
15. Sediment on plants or debris	(\mathfrak{O})	0.5	1	1.5	
16. Organic debris lines or piles	0	0.5	1	1.5	
17 Soil-based evidence of high water table?	No	= 0	(Yes	-3>	
C. Biology (Subtotal = 3)					
18. Fibrous roots in streambed	3	2	0	0	
19. Rooted upland plants in streambed	3	(2)	1	0	
20. Macrobenthos (note diversity and abundance)	\bigcirc	1	2	3	
21. Aquatic Mollusks	D	1	2	3	
22. Fish	0	0.5	1	1.5	
23. Crayfish	1 D	0.5	1	1.5	
24. Amphibians	70)	0.5	1	1.5	
25. Algae		0.5	1	1.5	
26. Wetland plants in streambed		FACW = 0.75; OB	L = 1.5 Other = (>	
*perennial streams may also be identified using other method	s. See p. 35 of manual				
Notes					
Sketch:				•	

PSA-39K1-1

NC DWQ Stream Identification Form Version 4.11

Absent 0 0 0 0 0 0 0 0 0 0 0 0 0	Weak 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Longitude: -7 Other Mene: e.g. Quad Name: Moderate 2 2 2 2	9.08226 TY Oaks Strong 3 3
Absent 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Meak 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Other Me e.g. Quad Name: Moderate 2 2 2 2	Strong
Absent 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Weak 1 1 1 1 1 1 1 1 1 1 1	Moderate 2 2 2 2 2 2 2 2 2 2 2 2 2	Strong 3 3
	1 1 1 1 1 1 1	2 2 0 0	3
	1 1 1 1 1	2 2 2	3
0 0 0 0 0	1 1 1	۵ C	0
0 0 0 0 0	1	Ø	3
0000	1		3
0		2	3
0	1	2	3
(0)	1	2	3
	1	2	3
Õ	0.5	1	1.5
0	0.5	1	1.5
No	=	Yes = 3	
6	1	2	3
	1	2	3
15	1	0.5	
	0.5	1	15
Ø	0.5	1	1.5
No	= 0	Mes =	3
		<u> </u>	-
3	2	1	0
3	(2)	1	0
0	1	2	3
Ø	1	2	3
Ó	0.5	1	1.5
Õ	0.5	1	1.5
0	0.5	1	1.5
0	0.5	1	1.5
	FACW = 0.75; OBI	_ = 1.5 Other = 0	2
e p. 35 of manual			
	0 1.5 0 No 3 3 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $

PSA- 39A2-1

Date: 1/10/20	Project/Site:	loncure	Latitude: 35	,67321	
Evaluator: S. Thebert, M. Gilbert	County: Cha	tham	Longitude: -79,083661 Other Merry Oaks e.g. Quad Name:		
Total Points:Stream is at least intermittent if \geq 19 or perennial if \geq 30*	Stream Determin	nation (circle one) rmittent Perennial			
A Geomorphology (Subtotal = 75-4, 5	Absent	Weak	Moderate	Strong	
1 ^a Continuity of channel bed and bank	0	1	B	3	
2. Sinuosity of channel along thalweg	0	62	03	3	
3. In-channel structure: ex. riffle-pool, step-pool, ripple-pool sequence	0	0	2	3	
4. Particle size of stream substrate	0	1	0	3	
5. Active/relict floodplain	0	1	2	3	
6. Depositional bars or benches	G	1	2	3	
7. Recent alluvial deposits	Ô	1	2	3	
8. Headcuts	Ø	1	2	3	
9. Grade control	0	0.5	1	1.5	
10. Natural valley	0	05	1	1.5	
11. Second or greater order channel	(No	=A	Yes =	= 3	
B. Hydrology (Subtotal = <u>3</u>) 12. Presence of Baseflow		1	2	3	
13. Iron oxidizing bacteria	100	1	2	3	
14. Leaf litter	1.5	1	0.5	0	
15. Sediment on plants or debris	()	0.5	1	1.5	
16. Organic debris lines or piles		0.5	1	1.5	
17. Soil-based evidence of high water table?	No	= 0	d'es =	3 IDVAU	
C. Biology (Subtotal = $2 - 3$)				- 10/14 4	
18. Fibrous roots in streambed	3	2	B	0	
19. Rooted upland plants in streambed	3	0		0	
20. Macrobenthos (note diversity and abundance)	Ø	1	2	3	
21. Aquatic Mollusks	0	1	2	3	
22, Fish	O	0.5	1	1.5	
23 Crayfish	Ø	0.5	1	1.5	
24. Amphibians	Q	0.5	1	1.5	
25 Algae	0	0.5	1	1.5	
26. Wetland plants in streambed		FACW = 0.75; OBI	= 1.5 Other = 0		
*perennial streams may also be identified using other method	ds. See p. 35 of manual				
Notes:	ds. See p. 55 of manual			1	

PSA-39F2-1

Date: 1/10/20	Project/Site:	Monure	Latitude: 35	63436	
Evaluator: S. Thebert, M. Gilbert	County: Cha	than	Longitude: -79, 084412		
Total Points:Stream is at least intermittent $if \ge 19$ or perennial if $\ge 30^*$	Stream Determin Ephemera Inter	nation (circle one) rmittent Perennial	Other Merry Oaks e.g. Quad Name: Y Oaks		
A. Geomorphology (Subtotal = $9.5 - 8.5$	Absent	Weak	Moderate	Strong	
1 ^a Continuity of channel bed and bank	0	0 -		3	
2. Sinuosity of channel along thalweg	0	1	(2)	3	
3. In-channel structure: ex. riffle-pool, step-pool, ripple-pool sequence	0	1	2	3	
4. Particle size of stream substrate	0	1	2	3	
5. Active/relict floodplain	0	1	2	3	
6. Depositional bars or benches	M	1	2	3	
7. Recent alluvial deposits	0	Θ	2	3	
8. Headcuts	0	0	2	3	
9. Grade control	0	0.5	1	1.5	
10. Natural valley	0	0.5	1	1.5	
11. Second or greater order channel	No	(a =0)	Yes	= 3	
B. Hydrology (Subtotal =)	1				
12. Presence of Baseflow	0	0	2	3	
13. Iron oxidizing bacteria	0	1	2	3	
14. Leaf litter	1.5	0	0.5	0	
15. Sediment on plants or debris	0	0.5	1	1.5	
16. Organic debris lines or piles	0	0.5	1	1.5	
17. Soil-based evidence of high water table?	No	= 0)	Yes = 3		
C. Biology (Subtotal = 3.5)					
18. Fibrous roots in streambed	3	2	0	0	
19. Rooted upland plants in streambed	3	2	1	0	
20. Macrobenthos (note diversity and abundance)	0	1	2	3	
21. Aquatic Mollusks	O	1	2	3	
22. Fish	0	0.5	1	1.5	
23. Crayfish	0	0.5	1	1.5	
24 Amphibians	(C)	0.5	1	1.5	
25 Algae	0	0.5	1	1.5	
26. Wetland plants in streambed		FACW = 0.75, OBI	= 1.5 Other = 0	0	
*perennial streams may also be identified using other metho	ds, See p. 35 of manual	Ь			
Natasi					

PSA-3952-1

ounty: Char tream Determin phemeral Inter Absent 0 0 0 0 0	Weak 1 0 0	Longitude:-7 Other Men e.g. Quad Name: Moderate 2	9.084778 7 Oaks Strong
Absent 0 0 0 0 0 0 0	Weak 1 0 0	Other Men e.g. Quad Name: Moderate 2	y Oaks Strong
Absent 0 0 0 0 0 0 0 0 0 0	Weak 1 D D	Moderate 2 2	Strong
0 0 0 0 0		2	2
0 0 0 0		2	3
0	0		3
0	00	2	3
0	C	2	3
0	0 -	2	3
U	0	2	3
0	Ð	2	3
Ø	1	2	3
Ø	0.5	1	1.5
Ø	0.5	1	1.5
No	=	Yes =	3
0			
		0	
0	1	2	3
0	1	2	3
1.5	1	(0.5)	0
0	0.5	1	1.5
0	0.5	0	1.5
No	0 = 0	Yes =	3
	~		
3	0	1	0
3	2	1	0
0	03	2	3
0	1	2	3
0	0.5	1	1.5
0	0.5	1	1.5
6	0.5	1	1.5
0	0.5	1	1.5
	FACW = 0.75; OBI	= 1.5 Other = 0	2
a a 35 of manual	and the second se		<i>c</i>
	0 0 1.5 0 0 No 3 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Moncure-Pittsboro Road TCI 154 Acres	City/County: Chatham		Sampling Date: 01/14/2020
Applicant/Owner: TC&I Timber Company LLC		State: NC	Sampling Point: FDS-39A3-1
Investigator(s): S. Thebert, M. Gilbert	Section, Township, Range:		
Landform (hillslope, terrace, etc.): draw	Local relief (concave, convex, non	_{ne):} concave	Slope (%): <u>3-6</u>
Subregion (LRR or MLRA): P, 136 Lat: 35.63644	188 Long: -79.	08213954	Datum: NAD 83
Soil Map Unit Name: Mayoden gravelly sandy loam, 10 to	15 percent slopes	NWI classificat	_{iion:} Upland
Are climatic / h <u>ydrologi</u> c con <u>ditions o</u> n the site typic <u>al for th</u> is time of	year? Yes 🖌 No 🦲 (If no, explain in Rer	marks.)
Are Vegetation Soil, or Hydrology significan	tly disturbed? Are "Normal	Circumstances" pre	esent? Yes 🔽 No 🛄
Are Vegetation, Soil, or Hydrology naturally	problematic? (If needed, e	xplain any answers	in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes No Yes No Yes No	Is the Sampled Area within a Wetland?	Yes No
Remarks:			
Point taken in a draw east of Mo	ncure School Road.		

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)	Drainage Patterns (B10)
Saturation (A3) Oxidized Rhizospheres on Living R	oots (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	ls (C6) Crayfish Burrows (C8)
Drift Deposits (B3)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No 🗸 Depth (inches): 0	
Water Table Present? Yes No 🗸 Depth (inches): >18 in	
Saturation Present? Yes No Ver Depth (inches): >18 in	Wetland Hydrology Present? Yes No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspecti	ons), if available:
Remarks:	

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

Sampling Point: FDS-39A3-1

	Abaoluto	Dominant	Indiantar	Dominance Test worksheet:
Tree Stratum (Plot size: 30 feet	% Cover	Species?	Status	Dominance Test worksneet:
Pinus taeda	60	VES	FAC	Number of Dominant Species
	25			That are OBL, FACW, of FAC: $\underline{\bigcirc}$ (A)
	20		FACU	Total Number of Dominant
3. Acer rubrum	15	NO	FAC	Species Across All Strata: 9 (B)
4				
5.				That Are OBL EACW or EAC: 33.3% (A/B)
6				
0	100	TullO		Prevalence Index worksheet:
	100	= Total Cov	er	Total % Cover of: Multiply by:
50% of total cover: <u>50.0</u>	20% of	total cover:	20.0	$\frac{1}{OBL \text{ species}} = 0 \qquad \text{ x } 1 = 0$
Sapling Stratum (Plot size: 15 feet				
1 Quercus rubra	15	YES	FACU	FACW species 0 $x 2 = 0$
2 Quercus stellata	10	VES	UPI	FAC species 93 $x_3 = 279$
2. Querous stenatu	10	120	01 2	FACU species 63 x 4 = 252
3				UPL species 10 $x_{5} = 50$
4				Column Totals: 166 (A) 581 (B)
5				
6.				Prevalence index = $B/A = 3.50$
	25	- Total Cov	or	Hydrophytic Vegetation Indicatoro
10 5		= 10(a) 000		
50% of total cover: <u>12.5</u>	20% of	total cover:	5.0	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: <u>15 feet</u>)				2 - Dominance Test is >50%
1 Quercus rubra	5	YES	FACU	3 - Prevalence Index is ≤3.0 ¹
2				4 - Morphological Adaptations ¹ (Provide supporting
				data in Remarks or on a separate sheet)
3			<u> </u>	Problematic Hydrophytic Vegetation ¹ (Explain)
4				
5				1
6.				Indicators of hydric soil and wetland hydrology must
	5	- Total Cov	or	be present, unless disturbed of problematic.
0.5		- 10101 000	4.0	Definitions of Five Vegetation Strata:
50% of total cover: 2.5	20% of	total cover:	1.0	Tree – Woody plants, excluding woody vines
Herb Stratum (Plot size: 5 feet)				approximately 20 ft (6 m) or more in height and 3 in.
_{1.} Lonicera japonica	10	YES	FACU	(7.6 cm) or larger in diameter at breast height (DBH).
2 Quercus rubra	8	YES	FACU	
 Smilax rotundifolia 	8	VES	FAC	Sapling – woody plants, excluding woody vines,
	<u> </u>	TLO		than 3 in. (7.6 cm) DBH.
4				
5				Shrub – Woody plants, excluding woody vines,
6				approximately 3 to 20 ft (1 to 6 m) in height.
7.				Herb – All berbaceous (non-woody) plants, including
0				herbaceous vines, regardless of size, and woody
0				plants, except woody vines, less than approximately 3
9				ft (1 m) in height.
10				Woody vine All woody vince reportloss of beight
11				woody ville – All woody villes, regardless of height.
	26	= Total Cov	er	
500 ()) 13.0			52	
50% of total cover: 13.0	20% of	total cover:	0.2	
Woody Vine Stratum (Plot size: 30 leet)				
1. Vitis rotundifolia	10	YES	FAC	
2.				
3				
4				
4				
5				Hvdrophytic
	10	= Total Cov	er	Vegetation
50% of total cover: 5.0	20% of	total cover.	2.0	Present? Yes <u>No</u> <u>✓</u>
Demortice (Include photo complete the state of the state	2070 01			
Remarks: (include photo numbers here or on a separate s	neet.)			

SOIL	
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Sampling Point: FDS-39A3-1

Profile Desc	cription: (Describe	e to the de	pth needed to docur	ment the	indicator	or confirm	n the absence	e of indicators.)
Depth	Matrix		Redo	x Feature	es1			
(inches)	Color (moist)	%	Color (moist)	%	Туре	Loc		Remarks
0-3	10YR3/2	100						
3-8	10YR6/3	95	5YR5/3	5	С	M	SCL	
8-12	10YR6/3	80	10YR6/6	20	С	М	CL	gravelly
12-18	10YR6/3	60	10YR6/8	40	С	Μ	CL	gravelly
<u> </u>								
						- <u> </u>		
¹ Type: C=C	oncentration, D=De	pletion, RM	I=Reduced Matrix, MS	S=Maske	d Sand Gi	ains.	² Location: F	PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indic	ators for Problematic Hydric Soils ³ :
Histosol	(A1)		Dark Surface	e (S7)				2 cm Muck (A10) (MLRA 147)
Histic E	pipedon (A2)		Polyvalue Be	elow Surfa	ace (S8) (I	MLRA 147	, 148) 🔟 🤇	Coast Prairie Redox (A16)
	istic (A3)		I hin Dark Su	urface (SS		147, 148)		(MLRA 147, 148)
	d Lavers (A5)			trix (F3)	(FZ)			(MI RA 136 147)
	uck (A10) (LRR N)		Redox Dark	Surface (F6)			/erv Shallow Dark Surface (TF12)
Deplete	d Below Dark Surfa	ce (A11)	Depleted Da	rk Surfac	e (F7)			Other (Explain in Remarks)
Thick Da	ark Surface (A12)		Redox Depre	essions (F	-8)			
Sandy N	/lucky Mineral (S1)	(LRR N,	Iron-Mangan	ese Mas	ses (F12)	(LRR N,		
	A 147, 148)		MLRA 13	6)			31	Produces of her developments the second state of the second
	Dedox (S5)			ace (F13) podplain ((MLRA 1) Soile (E19)	(MI DA 1)	18) we	dicators of hydrophytic vegetation and
	Matrix (S6)		Red Parent N	Material (50115 (P19) F21) (MLF	A 127. 14	46) wa 7) ur	aless disturbed or problematic.
Restrictive	Layer (if observed):				,	-,	·····
Туре:		-						
Depth (in	ches):						Hydric Soi	I Present? Yes No 🔽
Remarks:							•	

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Moncure-Pittsboro Road TCI 154 Acres	City/County: Chatham	1	Sampling Date: 01/09/2020
Applicant/Owner: TC&I Timber Company LLC		State: NC	Sampling Point: FDS-39B1-1
Investigator(s): S. Thebert, M. Gilbert	_ Section, Township, Rang	ge:	
Landform (hillslope, terrace, etc.): Depression	ocal relief (concave, conve	ex, none): <u>concave</u>	Slope (%): 0-1
Subregion (LRR or MLRA): P, 136 Lat: 35.631574	124 Long	-79.08270407	Datum: NAD 83
Soil Map Unit Name: Mayoden gravelly sandy loam, 10 to 1	15 percent slopes	NWI classific	ation: Upland
Are climatic / hydrologic conditions on the site typical for this time of y	year?Yes 🖌 No	(If no, explain in R	emarks.)
Are Vegetation Soil, or Hydrology significant	ly disturbed? Are "N	ormal Circumstances" p	oresent? Yes 🖌 No 🦲
Are Vegetation, Soil, or Hydrology naturally p	oroblematic? (If nee	ded, explain any answe	rs in Remarks.)
SUMMARY OF FINDINGS – Attach site map showin	g sampling point lo	cations, transects	, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes	Is the Sampled Area within a Wetland?	Yes 🔽 No
Remarks:			
Point taken in a depression with	n standing water up to 6 in. ov	ver 90% of the POW wet	land.
·	c		

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)		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 So	oils (C6)	Crayfish Burrows (C8)
Drift Deposits (B3)	Thin Muck Surface (C7)		Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Remarks)		Stunted or Stressed Plants (D1)
Iron Deposits (B5)			Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)			Shallow Aquitard (D3)
✓ Water-Stained Leaves (B9)			Microtopographic Relief (D4)
Aquatic Fauna (B13)			FAC-Neutral Test (D5)
Field Observations:			
Surface Water Present? Yes 🗹 No	Depth (inches): 0-6		
Water Table Present? Yes 🗹 No	Depth (inches): <u>3</u>		
Saturation Present? Yes 🖌 No	Depth (inches): 0	Wetland H	ydrology Present? Yes 🖌 No 🦾
(includes capillary fringe)	ing well, earlied photos, province increas	tiona) if avai	labla
Describe Recorded Data (stream gauge, monitor	ing well, aenal photos, previous inspec	suons), ii avai	ladie.
Pemarke:			
Standing water 0 6 inches in about 0.0%	of the wetland		
Standing water 0-6 inches in about 90%	o or the wettand.		

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

Sampling Point: FDS-39B1-1

Tree Stratum (Plot size: 30 fleet) % Cover Species? Status Number of Dominant Species 1. N/A	A) B) A/B)
2.	(B)
3. Initial Number of Dominant Species Across All Strata: 1 4. Species Across All Strata: 1 5. Sector of Dominant Species That Are OBL, FACW, or FAC: 100.0% 6. 0 = Total Cover Prevalence Index worksheet: 50% of total cover: 0.0 20% of total cover: 0.0 Sapling Stratum (Plot size: 15 feet 20% of total cover: 0.0 1. N/A $2.$ $3.$ $4.$ $5.$ $6.$ 0 $x 4 = 0$ $4.$ $6.$ 0 $x 5 = 0$ $6.$ 0 $x 5 = 0$ 0 $-$ Total Cover 0 $1.$ 0 $-$ Total Cover $0.$ $0.$ $0.$ $1.$ $0.$ $0.$ $1.$ $0.$ <	B) A/B)
4.	A/B)
5. 0 = Total Cover 6. 0 = Total Cover 50% of total cover: 0.0 20% of total cover: 0.0 Sapling Stratum (Plot size: 15 feet) Prevalence Index worksheet: 1. N/A 2. O 20% of total cover: 0.0 3. 0 5. 0 $x = 0$ 4. 0 $x = 0$ $x = 0$ 5. 0 $x = 0$ $x = 0$ 0. 0 $x = 1$ total Cover $x = 0$ 0. $x = 0$ $x = 0$ $x = 0$ 1. N/A $x = 0$ $x = 0$ $x = 0$ 2. $x = 0$ $x = 0$ $x = 0$ 3. $x = 0$	A/B)
0 = Total Cover 50% of total cover: 0.0 20% of total cover: 0.0 20% of total cover: 0.0 1. N/A 20% of total cover: 2. 3. 3.	(B)
Total % Cover of:Multiply by:50% of total cover: 0.0 20% of total cover: 0.0 $0.$	(B)
Sapling Stratum (Plot size: 15 feet) OBL species 0 $x 1 = 0$ 1. N/A FACW species $\frac{8}{0}$ $x 2 = 16$ 2	(B)
Saping Stating (Figure Size) For each indication (Figure Size) 1. N/A 2 3 4 5 6 0 0	(B)
1.1011 FAC species 0 $x 3 = 0$ 2. FAC species 0 $x 4 = 0$ 3. FACU species 0 $x 4 = 0$ 4. Column Totals: 8 (A) 16 6. Prevalence Index = B/A = 2.00	(B)
2. \blacksquare	(B)
3. $0.$ $1.$ $4.$ $1.$ $1.$ $5.$ $0.$ $1.$ $6.$ $0.$ $1.$ $0.$ $0.$ $1.$ $0.$ $0.$ $1.$ $0.$ $1.$ $1.$ $0.$ $0.$ $1.$ $0.$ $0.$ $1.$ $0.$ <td< td=""><td>(B)</td></td<>	(B)
4. Column Totals: $\underline{8}$ (A) $\underline{16}$ 5. Prevalence Index = $B/A = \underline{2.00}$ 0. Tatel Covor	(B)
6 Prevalence Index = B/A = 2.00	
50% of total cover: 0.0 20% of total cover: 0.0 1 - Rapid Test for Hydrophytic Vegetation	
Shrub Stratum (Plot size: 15 feet)	
1. N/A 3 - Prevalence Index is ≤3.0 ¹	
2 4 - Morphological Adaptations ¹ (Provide support data in Remarks or on a separate sheet)	rting
3 Problematic Hydrophytic Vegetation ¹ (Explain)	
4	
5	ist
6 be present, unless disturbed or problematic.	01
U = Total Cover Definitions of Five Vegetation Strata:	
50% of total cover: 0.0 20% of total cover: 0.0 Tree – Woody plants, excluding woody vines	
Herb Stratum (Plot size: 5 feet) approximately 20 ft (6 m) or more in height and 3 i	۱.
1. <u>Arundinaria gigantea</u> <u>8</u> <u>YES</u> <u>FACW</u> (7.6 cm) or larger in diameter at breast height (DBI	1).
2 Sapling – Woody plants, excluding woody vines,	
3 approximately 20 ft (6 m) or more in height and les	S
4	
5 Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.	
7. Herb – All herbaceous (non-woody) plants, includi	าต
8 herbaceous vines, regardless of size, and woody	
9 plants, except woody vines, less than approximate	y 3
10	
11 Woody vine – All woody vines, regardless of heig	it.
8 = Total Cover	
50% of total cover: 4.0 20% of total cover: 1.6	
Woody Vine Stratum (Plot size: 30 feet	
1. N/A	
2	
3	
4	
5	
0 = Total Cover Vegetation	
50% of total cover: 0.0 20% of total cover: 0.0 Present? Yes ✓ No	

SOIL

Depth	Matrix		Redo	x Feature	S1	. 2	_	
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Туре'	Loc	Texture	Remarks
0-0	101 R3/2							
6-18	10YR6/2	90	5YR4/6	10			CL	
¹ Type: C=Co	oncentration, D=Dep	letion, RM	=Reduced Matrix, M	S=Masked	I Sand Gra	ains.	² Location: P	L=Pore Lining, M=Matrix.
Hydric Soil	ndicators:		· · ·				Indica	ators for Problematic Hydric Soils ³ :
Histosol	(A1)		Dark Surface	e (S7)			<u> </u>	cm Muck (A10) (MLRA 147)
Histic Ep	pipedon (A2)		Polyvalue Be	elow Surfa	ce (S8) (N	ILRA 147,	. 148) C	coast Prairie Redox (A16)
Black Hi	stic (A3)		Thin Dark Su	Irface (S9)) (MLRA 1	47, 148)		(MLRA 147, 148)
Hydroge Stratified	n Sulfide (A4)		Loamy Gleye	ed Matrix (triv (E3)	F2)			(MI PA 136 147)
\square 2 cm Mu	ck (A10) (LRR N)		Redox Dark	Surface (F	-6)			erv Shallow Dark Surface (TF12)
Depleted	Below Dark Surfac	e (A11)	Depleted Da	rk Surface	(F7)			other (Explain in Remarks)
D Thick Da	ark Surface (A12)		Redox Depre	essions (F	8)			
Sandy M	lucky Mineral (S1) (LRR N,	Iron-Mangan	ese Mass	es (F12) (I	LRR N,		
	147, 148)		MLRA 13	6)		0.400)	3	tendence of the standard built and a static standard to a static
	edox (S5)			ice (F13) (podplaip S	(WILRA 13 oile (E19)	6,122) /MIDA 1/	18) we	Icators of hydrophytic vegetation and
	Matrix (S6)		Red Parent N	Material (F	21) (MLR	A 127. 147	7) un	less disturbed or problematic.
Restrictive I	ayer (if observed)	:			/ (,	<u> </u>	
Туре:								
Depth (inc	ches):						Hydric Soil	Present? Yes Vo No
Remarks:								

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Moncure-Pittsboro Road TCI 154 Acres	_ City/County: Chatham	Sampl	ing Date: 01/09/2020
Applicant/Owner: TC&I Timber Company LLC		State: NC Sam	ppling Point: FDS-39B1-2
Investigator(s): S. Thebert, M. Gilbert	Section, Township, Range:		
Landform (hillslope, terrace, etc.): Stream terrace	Local relief (concave, convex, non	_{e):} convex	Slope (%): 2
Subregion (LRR or MLRA): P, 136 Lat: <u>35.63154</u>	981 Long:79.	08274463	Datum: NAD 83
Soil Map Unit Name: Mayoden gravelly sandy loam, 10 to	15 percent slopes	NWI classification:	Upland
Are climatic / hydrologic conditions on the site typical for this time of	year? Yes 🖌 No 📃 (lf no, explain in Remarks	.)
Are Vegetation Soil, or Hydrology significan	tly disturbed? Are "Normal	Circumstances" present?	Yes 🚺 No 📃
Are Vegetation, Soil, or Hydrology naturally	problematic? (If needed, ex	xplain any answers in Re	emarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes No Yes No ✓ Yes No ✓	Is the Sampled Area within a Wetland?	Yes No
Remarks:			
Point taken in a stream terrace a	djacent to observed open w	ater.	

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)	Drainage Patterns (B10)
Saturation (A3) Oxidized Rhizospheres on Living F	Roots (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	ils (C6) Crayfish Burrows (C8)
Drift Deposits (B3) Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No 🗸 Depth (inches): 0 in	
Water Table Present? Yes No 🗸 Depth (inches): >18 in	
Saturation Present? Yes No ✓ Depth (inches): > 18 in	Wetland Hydrology Present? Yes No
Saturation Present? Yes No ✓ Depth (inches): > 18 in (includes capillary fringe)	Wetland Hydrology Present? Yes No
Saturation Present? Yes No ✓ Depth (inches): > 18 in (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	Wetland Hydrology Present? Yes No
Saturation Present? Yes No ✓ Depth (inches): > 18 in (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	Wetland Hydrology Present? Yes No
Saturation Present? Yes No Depth (inches): > 18 in (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes No
Saturation Present? Yes No Depth (inches): > 18 in (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes No
Saturation Present? Yes No Depth (incluse): > 18 in (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes No
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Saturation Present? Yes No Depth (inches): > 18 in (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes No

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

Sampling Point: FDS-39B1-2

00 5 1	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30 feet</u>)	<u>% Cover</u>	Species?	Status	Number of Dominant Species
1. Acer rubrum	25	YES	FAC	That Are OBL, FACW, or FAC: <u>5</u> (A)
2. Quercus alba	20		FACU	Total Number of Dominant
3. Pinus taeda	15		FAC	Species Across All Strata: (B)
4. Liriodendron tulipitera	12		FACU	Percent of Dominant Species
5. Betula nigra	8	NO	FACW	That Are OBL, FACW, or FAC: 83.3% (A/B)
6			·	Prevalence Index worksheet:
	80	= Total Cov	rer	Total % Cover of: Multiply by:
50% of total cover: <u>40.0</u>	20% of	total cover	16.0	$\begin{array}{c} \hline \hline$
Sapling Stratum (Plot size: 15 feet)				EACW species $\frac{38}{2}$ x 2 - 76
1. Liquidambar styraciflua	10	YES	FAC	FAC species 59 x 3 = 177
2				EACLI species 34 $x_4 = 136$
3		·	·	$\frac{1100 \text{ species } 0}{1100 \text{ species } 0} \times 5 = 0$
4				Column Totals: 131 (A) 389 (B)
5				
6				Prevalence Index = $B/A = \frac{2.97}{1000}$
	10	= Total Cov	rer	Hydrophytic Vegetation Indicators:
50% of total cover: 5.0	20% of	total cover	2.0	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 15 feet)				✓ 2 - Dominance Test is >50%
1. Liquidambar styraciflua	5	YES	FAC	3 - Prevalence Index is ≤3.0 ¹
2. Acer rubrum	4	YES	FAC	4 - Morphological Adaptations ¹ (Provide supporting
_{3.} Quercus alba	2	NO	FACU	data in Remarks or on a separate sheet)
4.				Problematic Hydrophytic Vegetation ¹ (Explain)
5.				
6.				¹ Indicators of hydric soil and wetland hydrology must
	11	= Total Cov	rer	Definitions of Five Verstation Strates
5.5				Deminions of Five vegetation Strata.
50% of total cover: 0.0	20% of	total cover	. 2.2	
50% of total cover: <u>5.5</u> Herb Stratum (Plot size: 5 feet	20% of	total cover	2.2	Tree – Woody plants, excluding woody vines,
50% of total cover: <u>5.5</u> <u>Herb Stratum</u> (Plot size: <u>5 feet</u>) 1 Arundinaria gigantea	20% of 30	total cover	2.2	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
50% of total cover: <u>5.5</u> <u>Herb Stratum</u> (Plot size: <u>5 feet</u>) <u>1. Arundinaria gigantea</u>	20% of 30	total cover	2.2 FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
50% of total cover: <u>5.5</u> <u>Herb Stratum</u> (Plot size: <u>5 feet</u>) <u>1. Arundinaria gigantea</u> 2	20% of 	total cover	_2.2 FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
50% of total cover: <u>5.5</u> <u>Herb Stratum</u> (Plot size: <u>5 feet</u>) <u>1. Arundinaria gigantea</u> 2. 3. 4	20% of 	YES	_2.2 	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
50% of total cover: <u>5.5</u> <u>Herb Stratum</u> (Plot size: <u>5 feet</u>) <u>1. Arundinaria gigantea</u> 2. 3. 4. 5	20% of 	YES	FACW	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines.
50% of total cover: <u>5.5</u> <u>Herb Stratum</u> (Plot size: <u>5 feet</u>) <u>1. Arundinaria gigantea</u> 2 3 4 5 6	20% of 30	YES	FACW	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
50% of total cover: <u>5.5</u> <u>Herb Stratum</u> (Plot size: <u>5 feet</u>) <u>1. Arundinaria gigantea</u> 2. 3. 4. 5. 6. 7	20% of 	YES	FACW	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All berbaceous (pon-woody) plants, including
50% of total cover: <u>5.5</u> <u>Herb Stratum</u> (Plot size: <u>5 feet</u>) <u>1. Arundinaria gigantea</u> 23 456	20% of 	YES	2.2 FACW	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
50% of total cover: <u>5.5</u> <u>Herb Stratum</u> (Plot size: <u>5 feet</u>) <u>1. Arundinaria gigantea</u> 2. 3. 4. 5. 6. 7. 8. 9.	20% of 30 	YES	FACW	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 the full statest for the state
50% of total cover: <u>5.5</u> Herb Stratum (Plot size: <u>5 feet</u>) 1. Arundinaria gigantea 2. 3. 4. 5. 6. 7. 8. 9. 10.	20% of 30	YES	FACW	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
50% of total cover: <u>5.5</u> Herb Stratum (Plot size: <u>5 feet</u>) 1. Arundinaria gigantea 2. 3. 4. 5. 6. 7. 8. 9. 10. 11.	20% of 30 	YES	FACW	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
50% of total cover: <u>5.5</u> Herb Stratum (Plot size: <u>5 feet</u>) 1. Arundinaria gigantea 2. 3. 4. 5. 6. 7. 8. 9. 10. 11.	20% of 30 30	YES	2.2 FACW	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
50% of total cover: <u>5.5</u> <u>1. Arundinaria gigantea</u> 2. 3. 3. 4. 5. 6. 7. 8. 9. 10. 11. 50% of total cover: <u>15.0</u>	20% of 30 30 30	YES	FACW	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
50% of total cover: <u>5.5</u> Herb Stratum (Plot size: <u>5 feet</u>) 1. Arundinaria gigantea 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 50% of total cover: <u>15.0</u> Weady Vise Stratum (Plot size: <u>30 feet</u>)	20% of 30 30 20% of	YES	FACW	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
50% of total cover: <u>5.5</u> <u>1. Arundinaria gigantea</u> 2	20% of 30 30 20% of	YES	FACW	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
50% of total cover: <u>5.5</u> <u>1. Arundinaria gigantea</u> 2	20% of 30 30 20% of	Total cover	FACW	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
50% of total cover: <u>5.5</u> Herb Stratum (Plot size: <u>5 feet</u>) 1. Arundinaria gigantea 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 50% of total cover: <u>15.0</u> Woody Vine Stratum (Plot size: <u>30 feet</u>) 1. N/A 2.	20% of 30 30 20% of	Total cover	FACW	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
50% of total cover: <u>5.5</u> Herb Stratum (Plot size: <u>5 feet</u>) 1. Arundinaria gigantea 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 50% of total cover: <u>15.0</u> Woody Vine Stratum (Plot size: <u>30 feet</u>) 1. N/A 2. 3.	20% of 30 30 20% of 	Total cover	FACW	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
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50% of total cover: <u>5.5</u> Herb Stratum (Plot size: <u>5 feet</u>) 1. Arundinaria gigantea 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 50% of total cover: <u>15.0</u> Woody Vine Stratum (Plot size: <u>30 feet</u>) 1. N/A 2. 3. 4. 5.	20% of 30 30 20% of 0	Total Cover	FACW FACW Image: second se	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
50% of total cover: <u>5.5</u> Herb Stratum (Plot size: <u>5 feet</u>) 1. Arundinaria gigantea 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 50% of total cover: <u>15.0</u> Woody Vine Stratum (Plot size: <u>30 feet</u>) 1. N/A 2. 3. 4. 5.	20% of 30 30 30 20% of 0	Total cover	FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height. Hydrophytic Vegetation Present? Yes ✓ No
50% of total cover: <u>5.5</u> Herb Stratum (Plot size: <u>5 feet</u>)) 1. Arundinaria gigantea . 2. . 3. . 4. . 5. . 6. . 7. . 8. . 9. . 10. . 11. . 50% of total cover: 15.0 Woody Vine Stratum (Plot size: 30 feet) 1. . 3. . 4. . 5. . 50% of total cover: 0.0	20% of 30 30 30 20% of 0 20% of	Total cover	FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height. Hydrophytic vegetation Present? Yes No

SUL

	Color (moiot)	0/	Color (moiot)	0/.	5 Tupo ¹	$1 cc^2$	Toxture	Pomarka
า_8	10VR3/2	100		70	<u> </u>	LUC		Remarks
-0	1011(3/2	100						
3-11	10YR4/2	100						
1-15	10YR4/2	80	5YR3/4	20			С	
ype: C=Co	oncentration, D=De	pletion, RN	I=Reduced Matrix, M	S=Masked	I Sand Gra	ains.	² Location: P	L=Pore Lining, M=Matrix.
dric Soil I	ndicators:						Indica	ators for Problematic Hydric Soils ³ :
Histosol	(A1)		Dark Surface	e (S7)			<u> </u>	cm Muck (A10) (MLRA 147)
Histic Ep	pipedon (A2)		Polyvalue Be	elow Surfa	ce (S8) (N	LRA 147,	148) 🗌 C	oast Prairie Redox (A16)
Black Hi	stic (A3)		Thin Dark Su	urface (S9)) (MLRA 1	47, 148)		(MLRA 147, 148)
Hydroge Stratified	n Sulfide (A4)		Loamy Gleye Depleted Ma	ed Matrix (F2)			(MI PA 136 147)
	ick (A10) (I RR N)			Surface (F	6)			erv Shallow Dark Surface (TE12)
Depleted	Below Dark Surfa	ce (A11)	Depleted Da	rk Surface	(F7)			ther (Explain in Remarks)
Thick Da	ark Surface (A12)	. ,	Redox Depre	essions (F	8)			
Sandy N	lucky Mineral (S1)	LRR N,	🔲 Iron-Mangan	ese Mass	es (F12) (I	RR N,		
MLRA	A 147, 148)		MLRA 13	6)			2	
Sandy G	leyed Matrix (S4)			ace (F13) ((MLRA 13	6, 122)	°Ind	icators of hydrophytic vegetation and
Sandy R	edox (S5)			odplain S	oils (F19)	(MLRA 14	18) we	tland hydrology must be present,
				vialenai (r		A 127, 147		
estrictive I	aver (if observed)							•
estrictive L	_ayer (if observed)):						
estrictive l Type: <u>15</u>	ayer (if observed)):					Hvdric Soil	Present? Yes No 🗸
estrictive I Type: <u>15</u> Depth (inc	Layer (if observed)):		X			Hydric Soil	Present? Yes No 🗸
estrictive I Type: <u>15</u> Depth (inc emarks: Re	ayer (if observed)): ayer at 1	5 in.				Hydric Soil	Present? Yes No 🗸
strictive I Type: <u>15</u> Depth (inc emarks: Re	ayer (if observed)): ayer at 1	5 in.				Hydric Soil	Present? Yes No 🗸
stripped estrictive I Type: <u>15</u> Depth (inc emarks: Re	ches): <u>clay</u>): ayer at 1	5 in.				Hydric Soil	Present? Yes No 🗸
estrictive I Type: <u>15</u> Depth (ind emarks: Re	ayer (if observed)	ayer at 1	5 in.				Hydric Soil	Present? Yes No 🗹
estrictive I Type: <u>15</u> Depth (inc emarks: Re	ayer (if observed)	ayer at 1	5 in.				Hydric Soil	Present? Yes No 🗹
estrictive I Type: <u>15</u> Depth (inc emarks: Re	ayer (if observed)	exper at 1	5 in.				Hydric Soil	Present? Yes No 🗹
estrictive I Type: <u>15</u> Depth (inc emarks: Re	estrictive clay la	ayer at 1	5 in.				Hydric Soil	Present? Yes No 🔽
estrictive I Type: <u>15</u> Depth (inc emarks: Re	ayer (if observed)	ayer at 1	5 in.				Hydric Soil	Present? Yes No 🗹
estrictive I Type: <u>15</u> Depth (inc emarks: Re	ayer (if observed)	ayer at 1	5 in.				Hydric Soil	Present? Yes No 🗹
estrictive I Type: <u>15</u> Depth (inc emarks: Re	ayer (if observed)	exper at 1	5 in.				Hydric Soil	Present? Yes No 🗹
estrictive I Type: <u>15</u> Depth (inc emarks: Re	estrictive clay la	ayer at 1	5 in.				Hydric Soil	Present? Yes No 🗹
estrictive I Type: <u>15</u> Depth (inc emarks: Re	ayer (if observed)	ayer at 1	5 in.				Hydric Soil	Present? Yes No
estrictive I Type: <u>15</u> Depth (inc emarks: R	ayer (if observed)	ayer at 1	5 in.				Hydric Soil	Present? Yes No 🗹
estrictive I Type: <u>15</u> Depth (inc emarks: Re	ayer (if observed)	ayer at 1	5 in.				Hydric Soil	Present? Yes No 🗹
estrictive I Type: <u>15</u> Depth (ind emarks: Re	ayer (if observed)	ayer at 1	5 in.				Hydric Soil	Present? Yes No 🗹
estrictive I Type: <u>15</u> Depth (inc emarks: Re	ayer (if observed)	ayer at 1	5 in.				Hydric Soil	Present? Yes No 🗹
estrictive I Type: <u>15</u> Depth (inc emarks: Re	ayer (if observed)	ayer at 1	5 in.				Hydric Soil	Present? Yes No 🗹
estrictive I Type: <u>15</u> Depth (ind emarks: Re	ayer (if observed)	ayer at 1	5 in.				Hydric Soil	Present? Yes No 🗹
anipped estrictive I Type: <u>15</u> Depth (ind emarks: Re	ayer (if observed)	ayer at 1	5 in.				Hydric Soil	Present? Yes No 🗹
stripped estrictive I Type: <u>15</u> Depth (inc emarks: Re	ayer (if observed)	ayer at 1	5 in.				Hydric Soil	Present? Yes No 🗹

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Moncure-Pittsboro Road TCI 154 Acres	City/County: Chatham	Sar	mpling Date: 01/10/2020
Applicant/Owner: TC&I Timber Company LLC		State: NC S	Sampling Point: FDS-39B2-1
Investigator(s): S. Thebert, M. Gilbert	Section, Township, Range:		
Landform (hillslope, terrace, etc.): Floodplain	Local relief (concave, convex, non	_{e):} concave	Slope (%): <u>1</u>
Subregion (LRR or MLRA): P, 136 Lat: 35.63212	2914 Long: <u>-79.</u>	0830084	Datum: NAD 83
Soil Map Unit Name: <u>Mayoden gravelly sandy loam, 10 to</u>	15 percent slopes	NWI classificatior	n: Upland
Are climatic / hydrologic conditions on the site typical for this time of	f year? Yes 🚺 No 🦲 (lf no, explain in Rema	rks.)
Are Vegetation Soil, or Hydrology significar	ntly disturbed? Are "Normal	Circumstances" prese	ent? Yes 🖌 No 🔙
Are Vegetation, Soil, or Hydrology naturally	problematic? (If needed, e.	xplain any answers in	Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes V No Vo Yes V No Vo	Is the Sampled Area within a Wetland?	Yes No
Remarks:			
Point taken in a floodplain.			

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)	Drainage Patterns (B10)
Saturation (A3) Oxidized Rhizospheres on Living F	Roots (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	ils (C6) Crayfish Burrows (C8)
Drift Deposits (B3) Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)	✓ Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
✓ Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No 🗸 Depth (inches): n/a	
Water Table Present? Yes 🗹 No 🛄 Depth (inches): 1	
Water Table Present? Yes ✓ No Depth (inches): / Saturation Present? Yes ✓ No Depth (inches): 0	Wetland Hydrology Present? Yes Ves
Water Table Present? Yes / No Depth (inches): / Saturation Present? Yes / No Depth (inches): 0 (includes capillary fringe) Describe Recorded Data (stream gauge monitoring well, aerial photos, previous inspect	Wetland Hydrology Present? Yes <u>No</u> No
Water Table Present? Yes / No Depth (inches): / Saturation Present? Yes / No Depth (inches): 0 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	Wetland Hydrology Present? Yes No No
Water Table Present? Yes No Depth (inches): / Saturation Present? Yes No Depth (inches): 0 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Bemarke:	Wetland Hydrology Present? Yes No
Water Table Present? Yes / No Depth (inches): / Saturation Present? Yes / No Depth (inches): 0 (includes capillary fringe) Image: Constraint of the second depth (inches): 0 Image: Constraint of the second depth (inches): 0 Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes No No
Water Table Present? Yes / No Depth (inches): / Saturation Present? Yes / No Depth (inches): 0 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes No No
Water Table Present? Yes / No Depth (inches): / Saturation Present? Yes / No Depth (inches): 0 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes No No
Water Table Present? Yes / No Depth (inches): / Saturation Present? Yes / No Depth (inches): 0 (includes capillary fringe) Depth (inches): 0 Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes No No
Water Table Present? Yes / No Depth (inches): / Saturation Present? Yes / No Depth (inches): 0 (includes capillary fringe) Depth (inches): 0 Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes No No
Water Table Present? Yes / No Depth (inches): / Saturation Present? Yes / No Depth (inches): 0 (includes capillary fringe) Depth (inches): 0 Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes No No
Water Table Present? Yes / No Depth (inches): / Saturation Present? Yes / No Depth (inches): 0 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks: Remarks:	Wetland Hydrology Present? Yes No No
Water Table Present? Yes / No Depth (inches): / Saturation Present? Yes / No Depth (inches): 0 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks: Remarks:	Wetland Hydrology Present? Yes No No
Water Table Present? Yes / No Depth (inches): / Saturation Present? Yes / No Depth (inches): 0 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks: Remarks:	Wetland Hydrology Present? Yes No
Water Table Present? Yes / No Depth (inches): / Saturation Present? Yes / No Depth (inches): 0 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks: Remarks:	Wetland Hydrology Present? Yes No No
Water Table Present? Yes / No Depth (inches): / Saturation Present? Yes / No Depth (inches): 0 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes No
Sampling Point: FDS-39B2-1

20 feet	Absolute	Dominant Ind	dicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: <u>50 Teet</u>) 1. <u>N/A</u>	<u>% Cover</u>	Species?	<u>Status</u>	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2 3	·			Total Number of Dominant Species Across All Strata: (B)
4				Percent of Dominant Creasion
5	·	· ·		That Are OBL, FACW, or FAC: 0.0% (A/B)
0	0	= Total Cover		Prevalence Index worksheet:
			0	Total % Cover of: Multiply by:
Solver Chatter (Districe 15 feet	20% 01	total cover: 0.	.0	OBL species 0 x 1 = 0
$\Delta N/\Delta$ (Plot size: 10 lost		VES		FACW species $0 x 2 = 0$
	·			FAC species 0 x 3 = 0
2				FACU species $0 x 4 = 0$
3	·			UPL species $0 \times 5 = 0$
4	·			Column Totals: <u>0</u> (A) <u>0</u> (B)
5	·			
6	0			Prevalence Index = B/A =
	0	= Total Cover	-	Hydrophytic Vegetation Indicators:
50% of total cover: 0.0	20% of	total cover: 0.	.0	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: <u>15 feet</u>)				2 - Dominance Test is >50%
1. <u>N/A</u>				3 - Prevalence Index is ≤3.0
2				4 - Morphological Adaptations' (Provide supporting
3				Problematic Hydrophytic Vegetation ¹ (Explain)
4				
5				¹ Indiantara of hydric call and watland hydrology must
6				be present, unless disturbed or problematic.
	0	= Total Cover		Definitions of Five Vegetation Strata:
50% of total cover: 0.0	20% of	total cover: 0.	.0	
Herb Stratum (Plot size: <u>5 feet</u>) 1. N/A				Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
2.				Sanling – Woody plants, excluding woody vines
3				approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
5				Shrub – Woody plants, excluding woody vines.
6	·			approximately 3 to 20 ft (1 to 6 m) in height.
7.				Herb – All berbaceous (non-woody) plants, including
8.				herbaceous vines, regardless of size, and woody
9.				plants, except woody vines, less than approximately 3
10.				i (i ii) iii noight
11.				Woody vine – All woody vines, regardless of height.
	0	= Total Cover		
50% of total cover: 0.0	20% of	total anvar: 0	0	
Woody Vine Stratum (Plot size: 30 feet	20% 01			
N/A				
	·		·	
2·	·			
3	·	· ·		
4	·			
ə	0			Hydrophytic
	0	= Iotal Cover	0	Vegetation Present? Yes V
50% of total cover: 0.0	20% of	total cover: 0.	.0	
Remarks: (Include photo numbers here or on a separate s	sheet.)			

Vegetation is absent due to time of year (winter) and herbaceous wetland vegetation is likely present in warmer months.

SOIL

Sampling Point: FDS-39B2-1

Profile Des	cription: (Describe	e to the de	pth needed to docu	ment the	indicator	or confirm	n the absence o	of indicators.)
Depth (inches)	Color (moist)	0/_	Color (moist)	ox Featur	es Type ¹	1 oc^2	Texture	Remarks
<u>0-10</u>	10YR3/2	98	10YR4/6	2	<u> </u>	 M		
10.10	1011(0/2			<u></u>			80	
10-12	10YR5/2	95	10YR4/6	5	<u> </u>	IVI	SUL	
-								
1				- <u></u>		- <u>. </u>	2	
Type: C=C	oncentration, D=De	pletion, RI	A=Reduced Matrix, M	S=Maske	ed Sand G	ains.	Location: PL:	=Pore Lining, M=Matrix.
	(A1) ninodon (A2)			e (57)	200 (59) (cm Muck (A10) (MLRA 147)
Black H	pipedon (A2) istic (A3)		Thin Dark Su	Inface (S	ace (38) (I 9) <i>(</i> MI RA	147 148)	, 1 46) <u> </u>	(MI RA 147 148)
	en Sulfide (A4)		Loamy Gleve	ed Matrix	(F2)	141, 140)	🗆 Pie	edmont Floodplain Soils (F19)
Stratifie	d Layers (A5)		✓ Depleted Ma	trix (F3)	(/			(MLRA 136, 147)
🔲 2 cm M	uck (A10) (LRR N)		Redox Dark	Surface ((F6)		🔲 Ve	ery Shallow Dark Surface (TF12)
Deplete	d Below Dark Surfa	ce (A11)	Depleted Da	rk Surfac	e (F7)		Ot Ot	her (Explain in Remarks)
D Thick D	ark Surface (A12)		Redox Depre	essions (F8)			
Sandy I	Aucky Mineral (S1)	(LRR N,	Iron-Mangan	iese Mas	ses (F12)	(LRR N,		
	A 147, 148)		MLRA 13	6) (F10)			31	
	Bleyed Matrix (S4)			ace (F13)		36, 122)		cators of hydrophytic vegetation and
	(SS) Matrix (S6)			Material (50115 (F 19) F21) (MI F	Ο (IVILKA 14	46) weu 7) unle	and hydrology must be present,
Restrictive	Laver (if observed):		viateriai (121) (WE	A 127, 14		
Type Cl	av	,-						
Depth (in	ches): 12						Hydric Soil F	Present? Yes 🗸 No
Remarks:							injune com	
R	estrictive clay la	ayer at 12	2 in.					

Project/Site: Moncure-Pittsboro Road TCI 154 Acres	City/County: Chatham	Samplin	g Date: 01/10/2020
Applicant/Owner: TC&I Timber Company LLC		State: NC Samp	ling Point: FDS-39B2-2
Investigator(s): S. Thebert, M. Gilbert	Section, Township, Range:		
Landform (hillslope, terrace, etc.): Floodplain	Local relief (concave, convex, non	_{e):} none	Slope (%): 0
Subregion (LRR or MLRA): P, 136 Lat: 35.63209	9598 Long: -79.	0830169	Datum: NAD 83
Soil Map Unit Name: <u>Mayoden gravelly sandy loam, 10 to</u>	15 percent slopes	NWI classification: U	pland
Are climatic / hydrologic conditions on the site typical for this time of	f year? Yes 🚺 No 🦲 (If no, explain in Remarks.)	
Are Vegetation Soil, or Hydrology significar	ntly disturbed? Are "Normal	Circumstances" present?	Yes 🖌 No 📃
Are Vegetation, Soil, or Hydrology naturally	problematic? (If needed, et	xplain any answers in Rem	narks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes No Yes No Yes No	Is the Sampled Area within a Wetland?	Yes No
Remarks:			
Point taken in a floodplain.			

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)	Drainage Patterns (B10)
Saturation (A3) Oxidized Rhizospheres on Living F	Roots (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	ils (C6) Crayfish Burrows (C8)
Drift Deposits (B3) Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)	✓ Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No ✓ Depth (inches): n/a	
Water Table Present? Yes No 🗸 Depth (inches): >18	
Saturation Present? Yes No Ver Depth (inches): >18	Wetland Hydrology Present? Yes No
Saturation Present? Yes No O Depth (inches): >18	Wetland Hydrology Present? Yes No
Saturation Present? Yes No Depth (inches): >18 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	Wetland Hydrology Present? Yes No
Saturation Present? Yes No Depth (inches): >18 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	Wetland Hydrology Present? Yes No
Saturation Present? Yes No Depth (inches): >18 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes No
Saturation Present? Yes No Depth (inches): >18 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes No
Saturation Present? Yes No Depth (inches): >18 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes No
Saturation Present? Yes No Depth (inches): >18 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes No
Saturation Present? Yes No Depth (inches): >18 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes No
Saturation Present? Yes No Depth (inches): >18 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes No
Saturation Present? Yes No Depth (inches): >18 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes No
Saturation Present? Yes No Depth (inches): >18 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes No
Saturation Present? Yes No Depth (inches): >18 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes No
Saturation Present? Yes No Depth (inches): >18 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes No
Saturation Present? Yes No Depth (inches): >18 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes No

Sampling Point: FDS-39B2-2

	Abaaluta	Dominant	Indiantar	Dominance Test worksheet
Tree Stratum (Plot size: 30 feet	% Cover	Species?	Status	Dominance rest worksneet.
Pipus taeda	10	VES	EAC	Number of Dominant Species
	40		TAC	That Are OBL, FACW, or FAC: (A)
2. Quercus alba	10	YES	FACU	Total Number of Dominant
3. Platanus occidentalis	8	NO	FACW	Species Across All Strata: 6 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 50.0% (A/B)
6.				
	58	- Total Cov	or	Prevalence Index worksheet:
		- 10tal 00v		Total % Cover of: Multiply by:
50% of total cover: 29.0	20% of	total cover:	11.6	
Sanling Stratum (Plot size: 15 feet				OBL species 0 $x_1 = 0$
Acor rubrum	20	VES	EAC	FACW species 8 x 2 = 10
	30		1.0	FAC species 93 $x_3 = 279$
2. Liquidambar styraciflua	20	YES	FAC	$\overline{40}$ $x_4 = 160$
_{3.} Quercus alba	10	NO	FACU	$\frac{10}{10} \times 4 = \frac{100}{10}$
Ullmus rubra	3	NO	FAC	UPL species 0 x 5 = 0
4.01110010010	0		1710	Column Totals: <u>141</u> (A) <u>455</u> (B)
5				
6.				Prevalence Index = $B/A = 3.23$
	63	- Total Cav	or	
			CI	
50% of total cover: 31.5	20% of	total cover:	12.6	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 15 feet)				2 - Dominance Test is >50%
	10	VES	FACU	$3 - $ Prevalence Index is $< 3.0^{1}$
	10	TLO	TAGO	
2				4 - Morphological Adaptations' (Provide supporting
3.				
1				Problematic Hydrophytic Vegetation ¹ (Explain)
4			<u> </u>	
5		·		¹ Indicators of hydric soil and wotland hydrology must
6				be present unless disturbed or problematic
	10	- Total Cov	or	
5.0		- 10101 000		Definitions of Five Vegetation Strata:
50% of total cover: <u>5.0</u>	20% of	total cover:	2.0	Tree Weedy plants, evoluting weedy vince
Herb Stratum (Plot size: 5 feet				approximately 20 ft (6 m) or more in height and 3 in
	10	VES	FACU	(7.6 cm) or larger in diameter at breast height (DBH)
	10		17100	
2				Sapling – Woody plants, excluding woody vines,
3.				approximately 20 ft (6 m) or more in height and less
4		·		than 3 in. (7.6 cm) DBH.
4		·		
5				Shrub – Woody plants, excluding woody vines,
6				approximately 3 to 20 ft (1 to 6 m) in height.
7				Harb All borbassous (non woody) planta including
	-	·		herbaceous vines regardless of size and woody
8		·	<u> </u>	plants, except woody vines, less than approximately 3
9				ft (1 m) in height.
10				
14		· · ·		Woody vine – All woody vines, regardless of height.
[¹¹	40	·		
	10	= Total Cov	er	
50% of total cover: 5.0	20% of	total covor	2.0	
30% of total cover.	20 /0 01	total cover.		
Woody Vine Stratum (Plot size: 50 leet)				
1. <u>N/A</u>				
2				
2	-	·		
3		·		
4				
5.			_	
	0	Tatal O		Hydrophytic
	0	= Total Cov	er	Vegetation
50% of total cover: 0.0	20% of	total cover:	0.0	Present? Yes L No V
I Remarks. (Include photo numbers pore or on a constant of	hoot)			

Depth	Matrix	to the dep	Reda	ox Feature	s	or continn	i the absence	or mulcators.
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
0-8	10YR4/3	100					CL	
8-12	10YR3/2	95	5YR4/4	5	С	М	GCL	
						·		
						·		
						·		
						. <u> </u>		
						·		
·		·			·	·		
						·		
¹ Type: C=Co	oncentration, D=Dep	letion, RM	=Reduced Matrix, M	S=Masked	I Sand Gr	ains.	² Location: P	L=Pore Lining, M=Matrix.
Hydric Soil I	ndicators:						Indic	ators for Problematic Hydric Soils ³ :
Histosol	(A1)		Dark Surface	e (S7)			<u> </u>	. cm Muck (A10) (MLRA 147)
Histic Ep	pipedon (A2)		Polyvalue Be	elow Surfa	ce (S8) (N	/ILRA 147,	148) 🗌 🤇	Coast Prairie Redox (A16)
Black His	stic (A3)		🔲 Thin Dark Sι	urface (S9)) (MLRA '	147, 148)	_	(MLRA 147, 148)
Hydroge	n Sulfide (A4)		Loamy Gleye	ed Matrix (F2)		L F	Piedmont Floodplain Soils (F19)
	Layers (A5)		Depleted Ma	trix (F3)				(MLRA 136, 147)
	CK (A10) (LKK N) Below Dark Surfac	م (۵11) م	Redox Dark Depleted Da	Surface (F	ю) (F7)			Very Shallow Dark Surface (TF12)
	ark Surface (A12)	= (ATT)		essions (Fi	8)			
Sandy M	lucky Mineral (S1) (L	.RR N,	Iron-Mangan	ese Mass	es (F12) (LRR N,		
MLRA	147, 148)	,	MLRA 13	6)				
🔲 Sandy G	leyed Matrix (S4)		Umbric Surfa	ace (F13) (MLRA 13	86, 122)	³ Inc	licators of hydrophytic vegetation and
D Sandy R	edox (S5)		Piedmont Flo	oodplain S	oils (F19)	(MLRA 14	4 8) we	etland hydrology must be present,
Stripped	Matrix (S6)		Red Parent N	Material (F	21) (MLR	A 127, 147	7) un	less disturbed or problematic.
Restrictive L	ayer (if observed):							
Type: 100	ck/gravei							
Depth (inc	ches): <u>12</u>						Hydric Soil	Present? Yes <u>V</u> No .
Remarks:								

Project/Site: Moncure-Pittsboro Road TCI 154 Acres	_ City/County:	Chatham		Sampling Date: 01/09/2020
Applicant/Owner: TC&I Timber Company LLC			State: NC	Sampling Point: FDS-39D1-1
Investigator(s): S. Thebert, M. Gilbert	_ Section, Towr	nship, Range:		
Landform (hillslope, terrace, etc.): Drainageway	ocal relief (conc	ave, convex, no	ne): concave	Slope (%): <u>3-5</u>
Subregion (LRR or MLRA): P, 136 Lat: 35.630398	335	Long: <u>-79</u>	0.08271058	Datum: NAD 83
Soil Map Unit Name: Mayoden gravelly sandy loam, 10 to 1	15 percent slo	opes	NWI classific	ation: Upland
Are climatic / h <u>ydrologi</u> c conditions on the site typic <u>al for th</u> is time of y	year?Yes 🚺		(If no, explain in R	emarks.)
Are Vegetation Soil, or Hydrology significant	ly disturbed?	Are "Norma	Il Circumstances" p	resent? Yes 🗹 No 📃
Are Vegetation, Soil, or Hydrology naturally p	oroblematic?	(If needed,	explain any answe	rs in Remarks.)
SUMMARY OF FINDINGS – Attach site map showin	ig sampling	point location	ons, transects	, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Ves No Yes No Yes No	Is the Sampled Area within a Wetland?	Yes 🖌 No 🦳
Remarks:			
Point taken in a drainageway de	epression.		

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 (E	B14) Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)	or (C1)
Saturation (A3) Oxidized Rhizosphere	s on Living Roots (C3) Does Trim Lines (B16)
Water Marks (B1)	Iron (C4) Dry-Season Water Table (C2)
Sediment Deposits (B2)	n in Tilled Soils (C6) Crayfish Burrows (C8)
Drift Deposits (B3)	7) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Other (Explain in Rem	narks) Stunted or Stressed Plants (D1)
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
✓ Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	✓ FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No ✓ Depth (inches): n/a	
Water Table Present? Yes <u>✓</u> No <u></u> Depth (inches): <u>0</u>	
Water Table Present? Yes ✓ No Depth (inches): 0 Saturation Present? Yes ✓ No Depth (inches): 0	Wetland Hydrology Present? Yes 🖌 No
Water Table Present? Yes ✓ No Depth (inches): 0 Saturation Present? Yes ✓ No Depth (inches): 0 (includes capillary fringe) Depth (inches): 0	Wetland Hydrology Present? Yes Ves No
Water Table Present? Yes ✓ No └ Depth (inches): 0 Saturation Present? Yes ✓ No └ Depth (inches): 0 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous)	Wetland Hydrology Present? Yes No
Water Table Present? Yes ✓ No _ Depth (inches): 0 Saturation Present? Yes ✓ No _ Depth (inches): 0 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, prevolution of the stream gauge in the stream gauge)	Wetland Hydrology Present? Yes No
Water Table Present? Yes ✓ No _ Depth (inches): 0 Saturation Present? Yes ✓ No _ Depth (inches): 0 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, prev Remarks: Remarks:	Wetland Hydrology Present? Yes No No
Water Table Present? Yes ✓ No Depth (inches): 0 Saturation Present? Yes ✓ No Depth (inches): 0 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, prevention Remarks:	Wetland Hydrology Present? Yes No
Water Table Present? Yes ✓ No _ Depth (inches): 0 Saturation Present? Yes ✓ No _ Depth (inches): 0 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, prev Remarks:	Wetland Hydrology Present? Yes No No
Water Table Present? Yes ✓ No _ Depth (inches): 0 Saturation Present? Yes ✓ No _ Depth (inches): 0 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, prev Remarks:	Wetland Hydrology Present? Yes No No
Water Table Present? Yes ✓ No _ Depth (inches): 0 Saturation Present? Yes ✓ No _ Depth (inches): 0 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, prev Remarks: Remarks:	Wetland Hydrology Present? Yes No No vious inspections), if available:
Water Table Present? Yes ✓ No Depth (inches): 0 Saturation Present? Yes ✓ No Depth (inches): 0 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, prev Remarks:	Wetland Hydrology Present? Yes No No vious inspections), if available:
Water Table Present? Yes ✓ No _ Depth (inches): 0 Saturation Present? Yes ✓ No _ Depth (inches): 0 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, prev Remarks: Remarks:	Wetland Hydrology Present? Yes No No
Water Table Present? Yes ✓ No Depth (inches): 0 Saturation Present? Yes ✓ No Depth (inches): 0 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, prev Remarks:	Wetland Hydrology Present? Yes No
Water Table Present? Yes ✓ No Depth (inches): 0 Saturation Present? Yes ✓ No Depth (inches): 0 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, prev Remarks: Remarks:	Wetland Hydrology Present? Yes No .
Water Table Present? Yes ✓ No Depth (inches): 0 Saturation Present? Yes ✓ No Depth (inches): 0 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, prev Remarks: Remarks:	Wetland Hydrology Present? Yes No .
Water Table Present? Yes ✓ No Depth (inches): 0 Saturation Present? Yes ✓ No Depth (inches): 0 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, prev Remarks: Remarks:	Wetland Hydrology Present? Yes No

Sampling Point: FDS-39D1-1

20 fr at	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30 feet</u>)	% Cover	Species?	<u>Status</u>	Number of Dominant Species
1. Pinus taeda	15	YES	FAC	That Are OBL, FACW, or FAC: <u>6</u> (A)
2				Total Number of Dominant
3.				Species Across All Strata: 6 (B)
1				
				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100.0% (A/B)
6				Brovelence Index workeheet:
	15	= Total Cov	er	
50% of total cover: 7.5	20% of	total cover	3.0	Iotal % Cover of:Multiply by:
Sapling Stratum (Plot size: 15 feet	2070 01			OBL species $0 \times 1 = 0$
Acer rubrum	5	VES	FAC	FACW species 15 x 2 = 30
	5	IL3	TAC	FAC species 70 x 3 = 210
2				FACU species $8 \times 4 = 32$
3				$\frac{1}{1} = \frac{1}{2} = \frac{1}$
4.				$\frac{1}{2} = \frac{1}{2} = \frac{1}$
5				Column Lotals: $\underline{93}$ (A) $\underline{212}$ (B)
6				Dravalance Index D/A 2.92
0	5	T (10		Prevalence index = B/A =
	<u> </u>	= Total Cov	er	Hydrophytic Vegetation Indicators:
50% of total cover: 2.5	20% of	total cover:	1.0	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 15 feet)				✓ 2 - Dominance Test is >50%
1 Liquidambar styraciflua	20	YFS	FAC	✓ 3 - Prevalence Index is ≤3.0 ¹
Acer rubrum	10	VES	FAC	4 - Morphological Adaptations ¹ (Provide supporting
	10	TLO		data in Remarks or on a separate sheet)
3				Problematic Hydrophytic Vegetation ¹ (Explain)
4				
5				1
6.				Indicators of hydric soil and wetland hydrology must
	30	- Total Cov	or	be present, unless disturbed of problematic.
45.0		- 10(01000		Definitions of Five Vegetation Strata:
50% of total cover: 15.0	20% of	total cover	6.0	Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 feet)				approximately 20 ft (6 m) or more in height and 3 in.
_{1.} Arthraxon hispidus	20	YES	FAC	(7.6 cm) or larger in diameter at breast height (DBH).
2. Carex caroliniana	15	YES	FACW	Sanling Weady planta avaluding weady vince
3 Lonicera japonica	8	NO	FACU	approximately 20 ft (6 m) or more in height and less
3. <u></u>	<u> </u>			than 3 in. (7.6 cm) DBH.
4	·			
5			<u> </u>	Shrub – Woody plants, excluding woody vines,
6				L opprovimately 2 to 20 ft (1 to 6 m) in height
7				approximately 3 to 20 ft (1 to 6 m) in height.
				approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including
8	·			 approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
8				 approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
8 9				approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
89 10				 approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
8 9 10 11				 approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
8 9 10 11	43			 approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
8 9 10 11 50% of total cover: 21.5	43 20% of	= Total Cov	er 8.6	 approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
8	43 20% of	= Total Cov	er 8.6	 approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
8	43 20% of	= Total Cov	er 8.6	 approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
8	43 20% of	= Total Cov total cover:	er 8.6	 approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
8	43	= Total Cov total cover:	er 8.6	 approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
8	43 20% of	= Total Cov total cover	er 8.6	 approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
8	43 20% of	= Total Cov total cover	er 8.6	 approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
8	43 20% of	= Total Cov total cover	er 8.6	 approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
8	43 20% of	= Total Cover	er	 approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height. Hydrophytic Venetation
8	43 20% of 	Total Cover	er 8.6	 approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height. Hydrophytic Vegetation Present? Yes Ves No
8	43 20% of 0 20% of	= Total Cov total cover: = Total Cov	er 8.6 er 0.0	 approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height. Hydrophytic Vegetation Present? Yes Yes No

SOIL	
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Depth	Matrix		Redo	x Feature	es			
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type'	Loc ²	Texture	Remarks
0-3	101R3/2	100		45				
3-12	10YR4/2	85	2.5YR3/6	15	<u> </u>	<u>M</u>		gravelly texture
12-18	10YR6/2	65	7.5YR5/4	35	С	M	CL	·
1							2	
Hydric Soil	oncentration, D=Dep	pletion, RN	I=Reduced Matrix, M	S=Maske	d Sand G	ains.	Location: F	² L=Pore Lining, M=Matrix.
	(A1)			(\$7)				2 cm Muck (A10) (MI PA 147)
	opedon (A2)			elow Surfa	ace (S8) (MLRA 147	.148)	Coast Prairie Redox (A16)
Black Hi	stic (A3)		Thin Dark Su	urface (S9) (MLRA	147, 148)		(MLRA 147, 148)
Hydroge	n Sulfide (A4)		Loamy Gleye	ed Matrix	(F2)		<u> </u>	Piedmont Floodplain Soils (F19)
Stratified	d Layers (A5)		Depleted Ma	trix (F3)			_	(MLRA 136, 147)
2 cm Mu	ick (A10) (LRR N)		Redox Dark	Surface (F6)			/ery Shallow Dark Surface (TF12)
	d Below Dark Surfac	ce (A11)	Depleted Da	rk Surface	e (F7)			Other (Explain in Remarks)
	ark Surface (A12)		Redox Depre	essions (F	-8) 			
	100ky Mineral (ST) (LKK N,			ses (FIZ)	LKK N,		
	leved Matrix (S4)			ace (F13)	(MLRA 1	36, 122)	³ Inc	dicators of hydrophytic vegetation and
Sandy R	edox (S5)		Piedmont Flo	bodplain S	Soils (F19)	(MLRA 14	18) w	etland hydrology must be present.
Stripped	Matrix (S6)		Red Parent N	Material (F	F21) (MLF	À 127, 14 ⁻	7) ur	nless disturbed or problematic.
Restrictive I	_ayer (if observed)	:						
Туре:								
Depth (ind	ches):						Hydric Soi	I Present? Yes <u>↓</u> No <u>↓</u>
Remarks:							1	

Project/Site: Moncure-Pittsboro Road TCI 154 Acres	_ City/County: Chatham	Samplir	ng Date: 01/09/2020
Applicant/Owner: TC&I Timber Company LLC		State: NC Samp	bling Point: FDS-39D1-2
Investigator(s): S. Thebert, M. Gilbert	_ Section, Township, Range:		-
Landform (hillslope, terrace, etc.): sideslope	ocal relief (concave, convex, non	_{e):} convex	Slope (%): <u>5</u>
Subregion (LRR or MLRA): P, 136 Lat: 35.630342	255 Long: -79.	08267203	Datum: NAD 83
Soil Map Unit Name: <u>Mayoden gravelly sandy loam, 10 to 1</u>	15 percent slopes	NWI classification: U	lpland
Are climatic / hydrologic conditions on the site typical for this time of	year? Yes 🖌 No 🦲 (lf no, explain in Remarks.)	
Are Vegetation Soil, or Hydrology significant	ly disturbed? Are "Normal	Circumstances" present?	Yes 🖌 No 🦲
Are Vegetation, Soil, or Hydrology naturally p	oroblematic? (If needed, e.	xplain any answers in Ren	narks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes No Yes No ✓ Yes No ✓	Is the Sampled Area within a Wetland?	Yes No
Remarks:			
Point taken on a sideslope.			

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)	Drainage Patterns (B10)
Saturation (A3) Oxidized Rhizospheres on Living F	Roots (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	ils (C6) Crayfish Burrows (C8)
Drift Deposits (B3) Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No 🗸 Depth (inches): n/a	
Water Table Brosent? Ves No Ves Depth (inches); >18	
Saturation Present? Yes No 🗸 Depth (inches): >18	Wetland Hydrology Present? Yes No
Saturation Present? Yes No Depth (inches): >18 (includes capillary fringe)	Wetland Hydrology Present? Yes No
Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): _>18 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	Wetland Hydrology Present? Yes No
Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): _>18 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	Wetland Hydrology Present? Yes No
Saturation Present? Yes No Depth (inches): >18 Saturation Present? Yes No Depth (inches): >18 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes No
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Water Fable Present? Fes No Depth (inches): Saturation Present? Yes No Depth (inches): >18 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks: Remarks:	Wetland Hydrology Present? Yes No
Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): >18 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks: Remarks:	Wetland Hydrology Present? Yes No Vo
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Water Fable Present? Fes No Depth (inches): Saturation Present? Yes No Depth (inches): _>18 (includes capillary fringe) Depth (inches): _>18 Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes No Vo
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Saturation Present? Yes No Depth (inches): >18 Saturation Present? Yes No Depth (inches): >18 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes No Vo
Valer Fable Present? res No Depth (inches): Saturation Present? Yes No Depth (inches): _>18 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes No Vo

Sampling Point: FDS-39D1-2

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 feet)	% Cover	Species?	Status	Number of Dominant Species
_{1.} Pinus taeda	65	YES	FAC	That Are OBL, FACW, or FAC: (A)
2 Quercus alba	15	YES	FACU	
2				Total Number of Dominant
3. <u></u>				Species Across All Strata: (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 57.1% (A/B)
6.				
	80	- Total Cov	or	Prevalence Index worksheet:
40.0		- 10(01000	40.0	Total % Cover of: Multiply by:
50% of total cover: 40.0	20% of	total cover:	16.0	OBL species 0 $x_1 = 0$
Sapling Stratum (Plot size: 15 feet)				
_{1.} Pinus taeda	8	YES	FAC	FACW species $\underline{0}$ $x 2 = \underline{0}$
2				FAC species 121 x 3 = 303
				FACU species <u>45</u> x 4 = <u>180</u>
3				UPL species $0 \qquad x = 0$
4				Column Totals: 166 (A) 543 (B)
5.				
6				Prevalence Index $= B/A = 3.27$
	8	Total Cau		
	0	= Total Cov	er	Hydrophytic vegetation indicators:
50% of total cover: <u>4.0</u>	20% of	total cover:	1.6	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 15 feet)				✓ 2 - Dominance Test is >50%
1 Acer rubrum	20	YES	FAC	3 - Prevalence Index is $\leq 3.0^{1}$
Liquidambar aturaciflua	20	VEQ	FAC	4 Morphological Adaptations ¹ (Provide supporting
	20		FAC	data in Remarks or on a separate sheet)
_{3.} Ilex opaca	15	YES	FACU	
_{4.} Pinus taeda	8	NO	FAC	
5				
				¹ Indicators of hydric soil and wetland hydrology must
0	60			be present, unless disturbed or problematic.
	03	= Total Cov	er	Definitions of Five Vegetation Strata:
50% of total cover: 31.5	20% of	total cover:	12.6	
Horb Stratum (Plot size: 5 feet)				Tree – Woody plants, excluding woody vines,
	15	VES	EACU	approximately 20 ft (6 m) or more in height and 3 in.
1. liex opaca	15	123	TACO	
2				Sapling – Woody plants, excluding woody vines,
3				approximately 20 ft (6 m) or more in height and less
4				than 3 in. (7.6 cm) DBH.
				Shruh Maadu planta avaluding waadu vinaa
- 5				approximately 3 to 20 ft (1 to 6 m) in height
6				
7				Herb – All herbaceous (non-woody) plants, including
8.				herbaceous vines, regardless of size, and woody
9				plants, except woody vines, less than approximately 3
10				ft (1 m) in height.
10				tt (1 m) in height. Woody vine – All woody vines, regardless of height.
11				tt (1 m) in height. Woody vine – All woody vines, regardless of height.
11	15	= Total Cov	er	tt (1 m) in height. Woody vine – All woody vines, regardless of height.
10 11	15	= Total Cov	er 3.0	tt (1 m) in height. Woody vine – All woody vines, regardless of height.
50% of total cover: 7.5	20% of	= Total Cov total cover:	er 3.0	tt (1 m) in height. Woody vine – All woody vines, regardless of height.
10		= Total Cov total cover:	er 3.0	tt (1 m) in height. Woody vine – All woody vines, regardless of height.
10	20% of	= Total Cov total cover:	er 3.0	tt (1 m) in height. Woody vine – All woody vines, regardless of height.
10 11 50% of total cover: 7.5 <u>Woody Vine Stratum</u> (Plot size: <u>30 feet</u>) 1. <u>N/A</u> 2.		Total Cov	er 3.0	tt (1 m) in height. Woody vine – All woody vines, regardless of height.
10 11 50% of total cover: 7.5 <u>Woody Vine Stratum</u> (Plot size: <u>30 feet</u>) 1. <u>N/A</u> 2 3		Total Cov total cover:	er 3.0	tt (1 m) in height. Woody vine – All woody vines, regardless of height.
10		Total Cov total cover:	er 3.0	tt (1 m) in height. Woody vine – All woody vines, regardless of height.
10		Total Cov total cover:	er 3.0	tt (1 m) in height. Woody vine – All woody vines, regardless of height.
10		= Total Cov total cover:	er 3.0	tt (1 m) in height. Woody vine – All woody vines, regardless of height.
10	15 20% of	Total Cover:	er 3.0	Hydrophytic
10	15 20% of 0	Total Cov total cover: 	er 3.0 er 0.0	tt (1 m) in height. Woody vine – All woody vines, regardless of height. Hydrophytic Vegetation Present? Yes No
10	20% of 20% of 	Total Cover:	er 3.0 er 0.0	Hydrophytic Vegetation Present? Yes <u>Vegetation</u> No

SUL

Profile Desc	ription: (Describe	to the dep	th needed to docun	nent the i	indicator	or confirn	n the absence of in	dicators.)
Depth	Matrix		Redo	k Feature	S			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-4	10YR3/2	100					L	
4-12	10YR5/2	100				·		
10.10		75		25	0	N.4		
12-10	101 10/3	75	101 K3/0	25	C	IVI		
						·		
						·		
¹ Type: C=Co	oncentration, D=Dep	letion, RM=	Reduced Matrix, MS	S=Maskec	d Sand Gr	ains.	² Location: PL=Po	re Lining, M=Matrix.
Hydric Soil	ndicators:						Indicators	for Problematic Hydric Soils ³ :
Histosol	(A1)		Dark Surface	(S7)			🔲 2 cm N	/luck (A10) (MLRA 147)
Histic Ep	oipedon (A2)		Polyvalue Be	low Surfa	ce (S8) (N	ILRA 147,	148) 🗌 Coast	Prairie Redox (A16)
🔲 Black Hi	stic (A3)		Thin Dark Su	rface (S9)) (MLRA 1	47, 148)	(ML	RA 147, 148)
Hydroge	n Sulfide (A4)		Loamy Gleye	d Matrix ((F2)		🔲 Piedm	ont Floodplain Soils (F19)
C Stratified	Layers (A5)		Depleted Mat	rix (F3)			(ML	RA 136, 147)
🔲 2 cm Mu	ick (A10) (LRR N)		Redox Dark S	Surface (F	-6)		Uery S	Shallow Dark Surface (TF12)
Depleted	Below Dark Surfac	e (A11)	Depleted Dar	k Surface	e (F7)		Other	(Explain in Remarks)
L Thick Da	ark Surface (A12)		Redox Depre	ssions (F	8)			
Sandy M	lucky Mineral (S1) (I	LRR N,	Iron-Mangane	ese Mass	es (F12) (LRR N,		
MLRA	A 147, 148)		MLRA 130	5)			3	
Sandy G	ileyed Matrix (S4)		Umbric Surfa	ce (F13) ((MLRA 13	6, 122)	Indicato	rs of hydrophytic vegetation and
Sandy R	edox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	18) wetland	hydrology must be present,
	Matrix (S6)		Red Parent M	laterial (F	·21) (MLR	A 127, 14	7) unless (disturbed or problematic.
Restrictive I	_ayer (if observed)							
Туре:								
Depth (ind	ches):						Hydric Soil Pres	sent? Yes No
Remarks:								

Project/Site: Moncure-Pittsboro Road TCI 154 Acres	_ City/County: Chatham	Sam	pling Date: 01/09/2020
Applicant/Owner: TC&I Timber Company LLC		State: NC Sa	ampling Point: FDS-39E1-1
Investigator(s): S. Thebert, M. Gilbert	Section, Township, Range:		
Landform (hillslope, terrace, etc.): drainage way	Local relief (concave, convex, nor	_{ne):} concave	Slope (%): <u>2</u>
Subregion (LRR or MLRA): P, 136 Lat: <u>35.63040</u>	295 Long:79.	08340289	Datum: NAD 83
Soil Map Unit Name: Mayoden gravelly sandy loam, 10 to	15 percent slopes	NWI classification:	Upland
Are climatic / hydrologic conditions on the site typical for this time of	year? Yes 🖌 No 🦲 (If no, explain in Remarl	ks.)
Are Vegetation Soil, or Hydrology significan	tly disturbed? Are "Normal	Circumstances" preser	nt? Yes 🖌 No 📃
Are Vegetation, Soil, or Hydrology naturally	problematic? (If needed, e	xplain any answers in F	Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes No Yes No Yes No	Is the Sampled Area within a Wetland?	Yes 🖌 No
Remarks:			
Point taken in a drainage-way.			

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)	Drainage Patterns (B10)
Saturation (A3)	Oxidized Rhizospheres on Living I	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 Sc	oils (C6) Crayfish Burrows (C8)
Drift Deposits (B3)	Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)		✓ Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)		Shallow Aquitard (D3)
✓ Water-Stained Leaves (B9)		Microtopographic Relief (D4)
Aquatic Fauna (B13)		FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes No	✓ Depth (inches): n/a	
Water Table Present? Yes 🗹 No	Depth (inches): <u>5</u>	
Saturation Present? Yes 🗸 No	Depth (inches): 0	Wetland Hydrology Present? Yes / No / No
Describe Recorded Data (stream gauge, monitor	ring well, aerial photos, previous inspect	tions), if available:
Remarks:		
i contanto.		

Sampling Point: FDS-39E1-1

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 feet)	% Cover	Species?	Status	Number of Dominant Species
_{1.} Pinus taeda	15	YES	FAC	That Are OBL, FACW, or FAC: 6 (A)
2 Acer rubrum	8	YES	FAC	
2				Total Number of Dominant
3				Species Across All Strata: 0 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100.0% (A/B)
6.				
	23	- Total Co	/or	Prevalence Index worksheet:
		- 10(a) 00		Total % Cover of: Multiply by:
50% of total cover: 11.5	20% of	total cover	<u>:</u> 4.0	OBL species $20 \times 1 = 20$
Sapling Stratum (Plot size: 15 feet)				$522 \text{ opening} \frac{10}{5}$
1. Pinus taeda	15	YES	FAC	FACW species $\frac{1}{2}$ $x_2 = \frac{10}{120}$
2				FAC species 43 x 3 = 129
2		•		FACU species $0 x 4 = 0$
3			· <u> </u>	UPL species $0 x 5 = 0$
4				Column Totals: $\overline{68}$ (A) $\overline{159}$ (B)
5				
6				Prevalence Index $- B/A - 2.34$
	15	Tatal Ca		
	10	= 10tal C0	/ei	nyurophytic vegetation indicators:
50% of total cover: 7.5	20% of	total cover	<u>: 3.0</u>	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 15 feet)				✓ 2 - Dominance Test is >50%
1 Alnus serrulata	20	YES	OBI	\checkmark 3 - Prevalence Index is $\leq 3.0^{1}$
Acor rubrum	5	VEQ		\square 4 Morphological Adaptations ¹ (Provide supporting
	3	IES	FAC	data in Remarks or on a separate sheet)
3				
4.				
5				
				¹ Indicators of hydric soil and wetland hydrology must
0	25			be present, unless disturbed or problematic.
	20	= Total Co	/er	Definitions of Five Vegetation Strata:
50% of total cover: 12.5	20% of	total cover	5.0	
Horb Stratum (Plot size: 5 feet)				Tree – Woody plants, excluding woody vines,
	5	VES	EACW/	approximately 20 ft (6 m) or more in height and 3 in.
1. Juncus effusus	5	YES	FACW	(7.6 cm) or larger in diameter at breast height (DBH).
1. Juncus effusus 2.	5	YES	FACW	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines,
1. Juncus effusus 2 3	5	YES	FACW	 approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
1. Juncus effusus 2 3	5	YES	FACW	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
1. Juncus effusus 2	5	YES	FACW	 approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines.
1. Juncus effusus 2. 3. 4. 5.	5	YES	FACW	 approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height
1. Juncus effusus 2. 3. 4. 5. 6.	5	YES	FACW	 approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
1. Juncus effusus 2. 3. 4. 5. 6. 7.	5	YES	FACW	 approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including
1. Juncus effusus 2. 3. 4. 5. 6. 7. 8.	5	YES	FACW	 approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
1. Juncus effusus 2. 3. 4. 5. 6. 7. 8. 9	5	YES	FACW	 approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 to 20 ft (1 to 6 m) in height.
1. Juncus effusus 2. 3. 4. 5. 6. 7. 8. 9.	5	YES	FACW	 approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
1. Juncus effusus 2. 3. 4. 5. 6. 7. 8. 9. 10.	5	YES	FACW	 approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
1. Juncus effusus 2. 3. 4. 5. 6. 7. 8. 9. 10. 11.	5	YES	FACW	 approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
1. Juncus effusus 2. 3. 4. 5. 6. 7. 8. 9. 10. 11.	5	YES	FACW	 approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
1. Juncus effusus 2. 3. 4. 5. 6. 7. 8. 9. 10. 11.	5	YES	FACW	 approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
1. Juncus effusus 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 20 foot	5 	 = Total Cover	FACW	 approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
1. Juncus effusus 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 2.5 Woody Vine Stratum (Plot size: 30 feet)	5 	 = Total Cover	FACW	 approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
1. Juncus effusus 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 2.5 Woody Vine Stratum (Plot size: 30 feet) 1. N/A	5 	YES	FACW	 approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
1. Juncus effusus 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 2.5 Woody Vine Stratum (Plot size: 30 feet) 1. N/A 2.	5 	YES	FACW	 approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
1. Juncus effusus 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 2.5 Woody Vine Stratum (Plot size: 30 feet)) 1. N/A 2. 3.	5 	YES	FACW	 approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
1. Juncus effusus 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 2.5 Woody Vine Stratum (Plot size: 30 feet) 1. N/A 2. 3.	5 	YES	FACW	 approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
1. Juncus effusus 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 2.5 Woody Vine Stratum (Plot size: 30 feet)) 1. N/A 2. 3. 4.	5 	YES	FACW	 approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
1. Juncus effusus 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 2.5 Woody Vine Stratum (Plot size: 30 feet)) 1. N/A 2. 3. 4. 5.	5 	YES	FACW	 approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
1. Juncus effusus 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 2.5 Woody Vine Stratum (Plot size: 30 feet) 1. N/A 2. 3. 4. 5.	5 	YES	FACW	 approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
1. Juncus effusus 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 2.5 Woody Vine Stratum (Plot size: 30 feet) 1. N/A 2. 3. 4. 5.	5 	YES	FACW	 approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height. Hydrophytic Vegetation Present? Yes Ves No
Juncus effusus 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 2.5 Woody Vine Stratum (Plot size: 30 feet) 1. 1. 5. 3. 4. 5. 50% of total cover: 2.5 Woody Vine Stratum (Plot size: 30 feet) 1. N/A 2. 3. 4. 5. 50% of total cover: 0.0	5 5 20% of 0 20% of	YES	FACW	 approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height. Hydrophytic Vegetation Present? Yes Ves No

SOIL	S	Ο		L
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Depth	Matrix		Redo	x Feature	<u>S</u>	12	Tautum	
(inches) 0-3	10YR3/2		Color (moist)	%	Type	Loc	l exture	Remarks
3_1/	10YR5/2	95	7.5VR//6	5	C	M		
1/ 10	10/10/2	<u> </u>	10/05/6	5	<u> </u>	<u> </u>		
14-10	10110/2	90	10113/0	5	0			
				<u> </u>				
¹ Type: C=Co	ncentration, D=Dep	oletion, RM	=Reduced Matrix, M	S=Masked	d Sand Gr	ains.	² Location: P	L=Pore Lining, M=Matrix.
Hydric Soil I	ndicators:		_				Indica	ators for Problematic Hydric Soils ³ :
	(A1)		Dark Surface	e (S7)	aa (CO) (cm Muck (A10) (MLRA 147)
	Ipedon (A2)		Thin Dark Su	rface (S9	CE (58) (I) (MI RA	WLRA 147, 147–148)	148) <u> </u>	Oast Prairie Redox (A16)
	n Sulfide (A4)		Loamy Gleye	ed Matrix ((F2)	147, 140)	🔲 Р	iedmont Floodplain Soils (F19)
Stratified	Layers (A5)		✓ Depleted Ma	trix (F3)	· · ·			(MLRA 136, 147)
2 cm Mu	ck (A10) (LRR N)	<i></i>	Redox Dark	Surface (F	-6)			ery Shallow Dark Surface (TF12)
	Below Dark Surfac	ce (A11)	Depleted Da	rk Surface	e (F7)			other (Explain in Remarks)
Sandy M	ucky Mineral (S1)	LRR N.		ese Mass	o) es (F12) ((LRR N.		
MLRA	147, 148)	,	MLRA 13	6)		(,		
Sandy G	leyed Matrix (S4)		Umbric Surfa	ace (F13)	(MLRA 1	36, 122)	³ Ind	icators of hydrophytic vegetation and
Sandy R	edox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	18) we	tland hydrology must be present,
Stripped	Matrix (S6)		Red Parent N	Material (F	21) (MLF	RA 127, 147	7) un	less disturbed or problematic.
Type:	ayer (if observed)							
Depth (inc	hes):						Hydric Soil	Present? Yes 🖌 No 🗌
Remarks:								

Project/Site: Moncure-Pittsboro Road TCI 154 Acres	_ City/County: Chatham	Samplir	ng Date: 01/10/2020
Applicant/Owner: TC&I Timber Company LLC		State: NC Samp	bling Point: FDS-39E2-1
Investigator(s): S. Thebert, M. Gilbert	Section, Township, Range:		
Landform (hillslope, terrace, etc.): draw	Local relief (concave, convex, non	_{e):} concave	Slope (%): 2
Subregion (LRR or MLRA): P, 136 Lat: 35.63244	774 Long: <u>-79.</u>	0838059	Datum: NAD 83
Soil Map Unit Name: Mayoden gravelly sandy loam, 10 to	15 percent slopes	NWI classification: U	pland
Are climatic / hydrologic conditions on the site typical for this time of	year? Yes 🖌 No 🦲 (I	lf no, explain in Remarks.)	
Are Vegetation Soil, or Hydrology significar	tly disturbed? Are "Normal	Circumstances" present?	Yes 🖌 No 🦲
Are Vegetation, Soil, or Hydrology naturally	problematic? (If needed, ex	xplain any answers in Ren	narks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes No Yes No Yes No	Is the Sampled Area within a Wetland?	Yes No
Remarks:			
Point taken in a draw.			

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)	Drainage Patterns (B10)
Saturation (A3) Oxidized Rhizospheres on Living F	Roots (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	ils (C6) Crayfish Burrows (C8)
Drift Deposits (B3) Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)	✓ Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No ✓ Depth (inches): n/a	
Water Table Present? Yes No Ver Depth (inches): >18	
Saturation Present? Yes No 🗸 Depth (inches): >18	Wetland Hydrology Present? Yes No
Saturation Present? Yes No Openth (inches): >18 (includes capillary fringe)	Wetland Hydrology Present? Yes No
Saturation Present? Yes No ✓ Depth (inches): >18 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	Wetland Hydrology Present? Yes No
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Sampling Point: FDS-39E2-1

1	Absoluto	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 feet	% Cover	Species?	Status	Dominance rest worksneet.
Pinus taeda	70	VES	FAC	Number of Dominant Species
Liriadandran tulinifara	0			
	0	NU	FACU	Total Number of Dominant
3		·		Species Across All Strata: 8 (B)
4.				
5				Percent of Dominant Species
5		·	·	That Are OBL, FACW, or FAC: 50.070 (A/B)
6	70			Provalence Index worksheet:
	/8	= Total Cov	/er	
50% of total cover: 39.0	20% of	total cover	15.6	<u>I otal % Cover or:</u> <u>Multiply by:</u>
Sepling Stretum (Diet size: 15 feet				OBL species 0 $x_1 = 0$
<u>Saping Stratum</u> (Flot size. <u>10 1000</u>)	15	VES	EAC	FACW species <u>8</u> x 2 = <u>16</u>
	10		FAC	FAC species 105 $x_{3} = 315$
2. Liriodendron tulipitera	8	YES	FACU	EACLI species 43 $x_4 = 172$
_{3.} Quercus rubra	5	YES	FACU	
4				UPL species 0 $x_5 = 0$
		·		Column Totals: 100 (A) 503 (B)
				2.02
6		·		Prevalence Index = $B/A = 3.22$
	28	= Total Cov	/er	Hydrophytic Vegetation Indicators:
50% of total cover: 14.0	20% of	total cover	5.6	1 - Rapid Test for Hydrophytic Vegetation
Chruch Chartering (Dist since 15 feet	2070 01			2 - Dominance Test is >50%
Shrub Stratum (Plot size: <u>15 leet</u>)	20	VEC	FAO	$\square 2 \text{Derivations of local is } \neq 0.01$
1. Liquidambar styracifiua	20	IE2	FAC	
2				4 - Morphological Adaptations' (Provide supporting
3.				data in Remarks or on a separate sheet)
1			·	Problematic Hydrophytic Vegetation ¹ (Explain)
-		·		
5				¹ Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
	20	= Total Cov	/er	Definitions of Five Vegetation Strata
E0% of total cover: 10.0	200/ of	total aquar	.40	Dominiono en rico regenarion en ana
50% of total cover. 10.0	20% 0	IOIAI COVEI	. 1.0	Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 leet)				
	10			approximately 20 ft (6 m) or more in height and 3 in.
1. Kubus argutus	12	YES	FACU	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
 <u>Rubus argutus</u> <u>Lonicera japonica</u> 	12 10	YES YES	FACU FACU	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
 <u>Rubus argutus</u> <u>Lonicera japonica</u> <u>Somunda cinnamomea</u> 	12 10 8	YES YES YES	FACU FACU FACW	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
 1. Kubus argutus 2. Lonicera japonica 3. Osmunda cinnamomea 	12 10 8	YES YES YES	FACU FACU FACW	 approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
 <u>Rubus argutus</u> <u>Lonicera japonica</u> <u>Osmunda cinnamomea</u> <u>-</u> 	12 10 8	YES YES YES	FACU FACU FACW	 approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
<u> 1. Kubus argutus</u> <u> 2. Lonicera japonica</u> <u> 3. Osmunda cinnamomea</u> 4 5	12 10 8	YES YES YES	FACU FACU FACW	 approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 2 to 20 ft (4 to 6 m) is height.
1. Kubus argutus 2. Lonicera japonica 3. Osmunda cinnamomea 4	12 10 8	YES YES YES	FACU FACU FACW	 approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
1. Kubus argutus 2. Lonicera japonica 3. Osmunda cinnamomea 4	<u>12</u> <u>10</u> <u>8</u> 	YES YES YES	FACU FACU FACW	 approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including
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1. Kubus argutus 2. Lonicera japonica 3. Osmunda cinnamomea 4. 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 15.0 20 fact	<u>12</u> <u>10</u> <u>8</u> <u></u> <u></u> <u></u> <u></u> <u>30</u> <u>20% of</u>	YES YES YES = Total Cover	FACU FACU FACW FACW	 approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
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SOIL	S	Ο		L
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Profile Des	cription: (Describe	e to the de	pth needed to docu	ment the	indicator	or confirm	n the absence	of indicators.)
Depth	Matrix		Redo	ox Feature	es T	1 2	Tautum	Demost -
(inches)	$\frac{\text{Color}(\text{moist})}{10 \text{VP} 1/2}$	100	Color (moist)	%	Type	Loc		Remarks
0-5	101 R4/3							
6-12	10YR5/3	95	10YR5/6	5	C	M	SL	
12-18	10YR5/4	95	10YR5/6	5	С	М	SCL	
					_			
¹ Type: C=C	oncentration, D=De	pletion, RM	I=Reduced Matrix, M	S=Maske	d Sand G	ains.	² Location: PL	=Pore Lining, M=Matrix.
Hydric Soil	Indicators:		,				Indica	tors for Problematic Hydric Soils ³ :
Histoso	(A1)		Dark Surface	e (S7)			<u> </u>	cm Muck (A10) (MLRA 147)
Histic E	pipedon (A2)		D Polyvalue Be	elow Surfa	ace (S8) (I	MLRA 147	, 148) 🗌 Co	bast Prairie Redox (A16)
Black H	istic (A3)		Thin Dark Su	urface (SS	9) (MLRA	147, 148)		(MLRA 147, 148)
Hydroge	en Sulfide (A4)			ed Matrix	(F2)			edmont Floodplain Soils (F19)
	u Layers (AS) uck (A10) (I RR N)			Surface (F6)			(MERA 130, 147) erv Shallow Dark Surface (TE12)
Deplete	d Below Dark Surfa	ce (A11)	Depleted Da	rk Surfac	e (F7)			her (Explain in Remarks)
D Thick D	ark Surface (A12)		Redox Depre	essions (F	-8)			
Sandy N	Aucky Mineral (S1)	(LRR N,	Iron-Mangar	ese Mas	ses (F12)	(LRR N,		
	A 147, 148)		MLRA 13	6)		00 400)	³ ll ¹	
Sandy C	Sedax (S5)			ace (F13) podplain ((IVILKA 1. Soils (F19)	30, 122) (ΜΙ RΔ 1/	1000 48) wet	cators of hydrophytic vegetation and land hydrology must be present
	d Matrix (S6)		Red Parent	Material (F21) (MLF	A 127. 14	7) unle	ess disturbed or problematic.
Restrictive	Layer (if observed):			, (,	1	
Туре:								
Depth (in	ches):						Hydric Soil	Present? Yes No 🔽
Remarks:							•	

City/County: Chatham	Samplin	g Date: 01/09/2020
	State: NC Samp	ling Point: FDS-39F1-2
Section, Township, Range:		-
ocal relief (concave, convex, none): convex	Slope (%): <u>3</u>
03 Long:79.0	8559932	Datum: NAD 83
cent slopes	NWI classification: U	pland
ear? Yes 🖌 No 🦲 (If	no, explain in Remarks.)	
/ disturbed? Are "Normal C	Circumstances" present?	Yes 🖌 No
oblematic? (If needed, exp	plain any answers in Rem	narks.)
	City/County: <u>Chatham</u> Section, Township, Range: ocal relief (concave, convex, none 03 Long: <u>-79.0</u> cent slopes ear? Yes ✓ No (If y disturbed? Are "Normal C roblematic? (If needed, exp	City/County: Chatham Samplin State: NC Samplin Section, Township, Range: Samplin Section, Township, Range: Social relief (concave, convex, none): CONVEX O3 Long: -79.08559932 Cent slopes NWI classification: U ear? Yes ✓ No (If no, explain in Remarks.) y disturbed? Are "Normal Circumstances" present? roblematic? (If needed, explain any answers in Rem

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes / No / No / Yes / No / No / Yes / No / /	Is the Sampled Area within a Wetland?	Yes No
Remarks:			
Point taken in the same wetland	l system as FDS-39E1-1.		

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)	Drainage Patterns (B10)
Saturation (A3) Oxidized Rhizospheres on Living F	Roots (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	ils (C6) Crayfish Burrows (C8)
Drift Deposits (B3) Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No 🗸 Depth (inches): n/a	
Water Table Present? Ves No C Depth (inches): >18	
Water Table Present? Fes Im No Im Depth (inches). Im	
Saturation Present? Yes No Depth (inches): >18	Wetland Hydrology Present? Yes No
Saturation Present? Yes No Depth (inches): >18 (includes capillary fringe)	Wetland Hydrology Present? Yes No
Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	Wetland Hydrology Present? Yes No
Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): _>18 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	Wetland Hydrology Present? Yes No
Water Fable Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes No
Water Fable Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks: Remarks:	Wetland Hydrology Present? Yes No
Water Fable Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes No
Water Fable Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): _>18 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks: Remarks:	Wetland Hydrology Present? Yes No
Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): _>18 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks: Remarks:	Wetland Hydrology Present? Yes No Vo
Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes No Vo
Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks: Remarks:	Wetland Hydrology Present? Yes No Vo
Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks: Remarks:	Wetland Hydrology Present? Yes No Vo
Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks: Remarks:	Wetland Hydrology Present? Yes No Vo
Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes No Vo
Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes No Vo

Sampling Point: FDS-39F1-2

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 feet)	% Cover	Species?	Status	Number of Dominant Species
1. Pinus taeda	70	YES	FAC	That Are OBL, FACW, or FAC: 7 (A)
2.				
3				Total Number of Dominant
				Species Across All Strata: _/ (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100.0% (A/B)
6				
	70	= Total Cov	/er	Prevalence Index worksheet:
35.0			14.0	Total % Cover of: Multiply by:
50% of total cover: <u>50.0</u>	20% of	total cover	: 14.0	OBL species 0 x 1 = 0
Sapling Stratum (Plot size: 15 Teet)		-		FACW species 8 x 2 - 16
1. Pinus taeda	15	YES	FAC	138 x 2 414
2.				FAC species $100 \times 3 = 11$
3				FACU species 5 $x 4 = 20$
			·	UPL species $0 \times 5 = 0$
4	·			Column Totals: <u>151</u> (A) <u>450</u> (B)
5				
6				Prevalence Index = $B/A = 2.98$
	15	= Total Cov	/er	Hydrophytic Vegetation Indicators:
75			30	1 - Rapid Test for Hydrophytic Vocatation
50% of total cover: 7.5	20% of	total cover	: 3.0	
Shrub Stratum (Plot size: 15 feet)				2 - Dominance Test is >50%
1. Acer rubrum	13	YES	FAC	3 - Prevalence Index is ≤3.0 ¹
2 Morella cerifera	10	YES	FAC	4 - Morphological Adaptations ¹ (Provide supporting
2. Pinus taeda	10	YES	FAC	data in Remarks or on a separate sheet)
3. <u>- mao taoda</u>	10	120		Problematic Hydrophytic Vegetation ¹ (Explain)
4				
5				
6.				handleators of hydric soil and wetland hydrology must
	33	= Total Cov	/er	Definitions of Five Mendation Ofacts
10.5		- 10101 001	6.6	Definitions of Five vegetation Strata:
50% of total cover: 10.5	20% of	f total cover	0.0	Tree – Woody plants, excluding woody vines.
Herb Stratum (Plot size: 5 feet)				approximately 20 ft (6 m) or more in height and 3 in.
_{1.} Arthraxon hispidus	15	YES	FAC	(7.6 cm) or larger in diameter at breast height (DBH).
2 Juncus effusus	8	YES	FACW	
o Pinus taeda	5		FAC	Sapling – Woody plants, excluding woody vines,
	5		54011	than 3 in (7.6 cm) DBH
4. Lonicera japonica	5	NU	FACU	
5	. <u> </u>			Shrub – Woody plants, excluding woody vines,
6.				approximately 3 to 20 ft (1 to 6 m) in height.
7				Harb All borbassaus (non woody) planta including
·	·	·		herbaceous vines, regardless of size, and woody
8		•		plants, except woody vines, less than approximately 3
9				ft (1 m) in height.
10				
11.				Woody vine – All woody vines, regardless of height.
	33	- Total Ca	/or	
10 -				
50% of total cover: <u>16.5</u>	20% of	f total cover	<u>;</u> 6.6	
Woody Vine Stratum (Plot size: 30 feet)				
1 N/A				
	·			
2		•		
3		<u> </u>		
4				
5.				
	0	- Total Car	/or	Hydrophytic Venetation
	-	- 10tal C0		Present? Voc V
50% of total cover: 0.0	20% of	f total cover	<u>. 0.0</u>	
Remarks: (Include photo numbers here or on a separate	sheet.)			

(inches)	Matrix	<u>.</u>	Redo	<u>x Features</u>	1.2	-	- ·
	Color (moist)	%	Color (moist)	<u>%</u> <u>Typ</u>			Remarks
0-0	101R4/2	99				<u>.</u>	
8-18	10YR6/2	75	2.5YR4/8	25 C	M	L	
				<u> </u>			
				<u> </u>			
·			·				
¹ Type: C=Co	oncentration, D=De	pletion, RM	I=Reduced Matrix, M	S=Masked Sand	d Grains.	² Location: F	PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:					Indic	ators for Problematic Hydric Soils ³ :
Histosol	(A1)		Dark Surface	e (S7)		<u> </u>	2 cm Muck (A10) (MLRA 147)
Histic Ep	pipedon (A2)		D Polyvalue Be	elow Surface (S8	B) (MLRA 147,	148) 🔲 🤇	Coast Prairie Redox (A16)
Black Hi	stic (A3)		Thin Dark Su	urface (S9) (MLF	RA 147, 148)	Π.	(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gley	ed Matrix (F2)		L F	Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Ma	atrix (F3)			(MLRA 136, 147)
	d Below Dark Surfa	ce (A11)		rk Surface (F7)			Other (Explain in Remarks)
Thick Da	ark Surface (A12)		Redox Depre	essions (F8)		· LI.	
Sandy N	lucky Mineral (S1)	(LRR N,	Iron-Mangar	nese Masses (F1	2) (LRR N,		
MLRA	A 147, 148)		MLRA 13	6)			
Sandy G	Bleyed Matrix (S4)		Umbric Surfa	ace (F13) (MLR /	A 136, 122)	³ Inc	licators of hydrophytic vegetation and
Sandy R	ledox (S5)		Piedmont Fl	oodplain Soils (F	19) (MLRA 1 4	8) w	etland hydrology must be present,
Stripped	Matrix (S6)	\-	Red Parent	Material (F21) (N	/ILRA 127, 147	') ur	lless disturbed or problematic.
Restrictive	Layer (if observed):					
Type:	-h).					Ubudaia Cai	
Depth (Ind	cnes):					Hydric Sol	Present? fes <u> </u>
Remarks:							

Project/Site: Moncure-Pittsboro Road TCI 154 Acres	_ City/County: Chatham	Samplir	ng Date: 01/10/2020
Applicant/Owner: TC&I Timber Company LLC		State: NC Samp	bling Point: FDS-39G1-2
Investigator(s): S. Thebert, M. Gilbert	Section, Township, Range:		
Landform (hillslope, terrace, etc.): draw	Local relief (concave, convex, none	_{e):} concave	Slope (%): <u>3</u>
Subregion (LRR or MLRA): P, 136 Lat: 35.63139	59 Long: -79.0	0814708	Datum: NAD 83
Soil Map Unit Name: Mayoden gravelly sandy loam, 10 to	15 percent slopes	NWI classification: U	pland
Are climatic / hydrologic conditions on the site typical for this time of	year? Yes 🖌 No 🦲 (I	f no, explain in Remarks.)	
Are Vegetation Soil, or Hydrology significar	tly disturbed? Are "Normal (Circumstances" present?	Yes 🖌 No 📃
Are Vegetation, Soil, or Hydrology naturally	problematic? (If needed, ex	plain any answers in Ren	narks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes No Yes No Yes No	Is the Sampled Area within a Wetland?	Yes No
Remarks:			
Point taken in a draw.			

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)	Drainage Patterns (B10)
Saturation (A3) Oxidized Rhizospheres on Living F	Roots (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	ils (C6) Crayfish Burrows (C8)
Drift Deposits (B3) Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No 🗸 Depth (inches): n/a	
Water Table Present? Ves No 🗸 Depth (inches): >18	
Saturation Present? Yes No 🗸 Depth (inches): >18	Wetland Hydrology Present? Yes No
Saturation Present? Yes No V Depth (inches): >18 (includes capillary fringe)	Wetland Hydrology Present? Yes No
Saturation Present? Yes No Depth (inches): >18 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	Wetland Hydrology Present? Yes No
Saturation Present? Yes No ✓ Depth (inches): >18 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	Wetland Hydrology Present? Yes No
Saturation Present? Yes No Depth (inclus): >18 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes No
Saturation Present? Yes No ✓ Depth (inclus): >18 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes No
Saturation Present? Yes No ✓ Depth (inclus): >18 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes No
Saturation Present? Yes No ✓ Depth (inclus): >18 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes No
Valer Fable Fresent: Festin: Festin: Depth (inclus):	Wetland Hydrology Present? Yes No
Saturation Present? Yes No ✓ Depth (inclus): >18 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes No Vo
Valer Fable Fresent: Festin: Festin: Depth (inclus):	Wetland Hydrology Present? Yes No
Valer Fable Fresent: Festin: Festin: Depth (inclus):	Wetland Hydrology Present? Yes No
Valer Fable Fresent: Test in te	Wetland Hydrology Present? Yes No V
Valer Fable Fresent: Test in te	Wetland Hydrology Present? Yes No V
Saturation Present? Yes No ✓ Depth (inches): >18 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes No Vo

Sampling Point: FDS-39G1-2

00 fa at	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30 feet</u>)	% Cover	Species?	<u>Status</u>	Number of Dominant Species
1. Pinus taeda	80	YES	FAC	That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3.				Species Across All Strata: 6 (B)
A				
				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: <u>66.7%</u> (A/B)
6				Brouglanco Index workshoot
	80	= Total Cov	er	
50% of total cover: 40.0	20% of	total cover:	16.0	
Sapling Stratum (Plot size: 15 feet)				OBL species $0 x 1 = 0$
Pinus taeda	20	VES	FAC	FACW species 0 $x 2 = 0$
Liquidambar styraciflua	10		EAC	FAC species <u>135</u> x 3 = <u>405</u>
	10	NU	FAC	FACU species $20 \qquad x_4 = 80$
3				UPL species $0 \times 5 = 0$
4				$\frac{1}{100} = \frac{1}{100} $
5				$\frac{100}{(B)}$
6.				Prevalence Index = $B/A = 3.13$
	30	- Total Cov	er	Hydrophytic Vegetation Indicators:
45.0		10101 000	60	1 Papid Tast for Hydrophytic Vesstation
50% of total cover: 15.0	20% of	total cover:	0.0	
Shrub Stratum (Plot size: <u>15 feet</u>)		-		2 - Dominance Test is >50%
1. Liquidambar styraciflua	20	YES	FAC	3 - Prevalence Index is ≤3.0 ¹
_{2.} Ilex opaca	5	YES	FACU	4 - Morphological Adaptations ¹ (Provide supporting
3				data in Remarks or on a separate sheet)
A.				Problematic Hydrophytic Vegetation ¹ (Explain)
4				
5				¹ Indicators of hydric soil and wetland hydrology must
6	05			be present, unless disturbed or problematic.
	25	= Total Cov	er	Definitions of Five Vegetation Strata:
50% of total cover: 12.5	20% of	total cover:	5.0	
Herb Stratum (Plot size: 5 feet				Tree – Woody plants, excluding woody vines,
1 Lonicera japonica	15	YES	FACU	(7.6 cm) or larger in diameter at breast height (DBH).
Liquidambar styraciflua	5	VES	FAC	
	5	TLO		Sapling – Woody plants, excluding woody vines,
3				approximately 20 ft (6 m) or more in height and less
4				
5				Shrub – Woody plants, excluding woody vines,
6				approximately 3 to 20 ft (1 to 6 m) in height.
7.				Herb – All herbaceous (non-woody) plants, including
8				herbaceous vines, regardless of size, and woody
0				plants, except woody vines, less than approximately 3
9				ft (1 m) in height.
10				Woody vine – All woody vines, regardless of height.
11				
	20	= Total Cov	er	
50% of total cover: 10.0	20% of	total cover	4.0	
Woody Vine Stratum (Plot size: 30 feet	2070 01			
$\frac{1}{\sqrt{1000}}$ N/A				
1.				
2				
3				
4				
5				Hudronbutio
	0	Total Cav	er	
	0	= 101a1 COV		Vedetation
	0.001 1		0.0	Present? Yes Ves
50% of total cover: 0.0	20% of	total cover:	0.0	Present? Yes No

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Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth	Matrix		Redo	x Feature	s			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-8	10YR4/3	90	5YR4/6	10	С	М	CL	
8-15	10VR6/3	90	5YR5/6	10	C	М	CL	
0-10	1011(0/0		011(0/0	10	<u> </u>			
·								
		_						
					·			·
					·			
			·		·			
¹ Type: C=Co	oncentration, D=De	oletion, RN	I=Reduced Matrix, MS	S=Maske	d Sand Gr	ains.	² Location: F	PL=Pore Lining, M=Matrix.
Hydric Soil	ndicators:						Indic	ators for Problematic Hydric Soils ³ :
Histosol	(A1)		Dark Surface	(S7)				2 cm Muck (A10) (MLRA 147)
Histic Er	bipedon (A2)		Polyvalue Be	low Surfa	ace (S8) (I	MLRA 147.	. 148) 🔲 🤇	Coast Prairie Redox (A16)
Black Hi	stic (A3)		Thin Dark Su	rface (S9) (MLRA	147. 148)		(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleve	d Matrix	(F2)	····, ···,		Piedmont Floodplain Soils (F19)
Stratified	Lavers (A5)		Depleted Mat	trix (F3)	(/			(MLRA 136, 147)
2 cm Mu	ick (A10) (I RR N)		Redox Dark S	Surface (I	F6)			/erv Shallow Dark Surface (TE12)
	Below Dark Surfac	ce (A11)	Depleted Dar	k Surface	e (F7)			Other (Explain in Remarks)
	ark Surface (A12)			ssions (F	5 (1 7) 58)		`	
Sandy M	lucky Mineral (S1) (ese Mass	es (F12) (
MIR4	147 148)	,	MIRA 13	6) 6)	,00 (1 12) ((,		
	leved Matrix (S4)			се (F13)	(MI RA 1	36 122)	³ Inc	dicators of hydrophytic vegetation and
	adox (S5)			odolain S		(MI DA 1/	18)	atland hydrology must be present
	Matrix (S6)			Astorial (F	21) (MI E			aless disturbed or problematic
	war (if shear ad			naterial (r		A 127, 14	/) u	liess disturbed of problematic.
	Layer (if observed)):						
Type: Cla	ay 45							
Depth (ind	ches): <u>15</u>						Hydric Soi	I Present? Yes No 🔽
Remarks:		<u> </u>	45.				•	
R	estrictive layer o	of clay at	15 in.					

Project/Site: Moncure-Pittsboro Road TCI 154 Acres	City/County: Chatham	Sar	mpling Date: 01/10/2020
Applicant/Owner: TC&I Timber Company LLC		State: NC S	Sampling Point: FDS-39G2-1
Investigator(s): S. Thebert, M. Gilbert	Section, Township, Range:		
Landform (hillslope, terrace, etc.): drainage way	Local relief (concave, convex, non	_{e):} concave	Slope (%): 0-1
Subregion (LRR or MLRA): P, 136 Lat: 35.63449	0726 Long: <u>-79.</u>	08474534	Datum: NAD 83
Soil Map Unit Name: <u>Mayoden gravelly sandy loam</u> , 10 to	o 15 percent slopes	NWI classification	n: Upland
Are climatic / hydrologic conditions on the site typical for this time of	f year? Yes 🚺 No 🦲 (I	lf no, explain in Rema	rks.)
Are Vegetation Soil, or Hydrology significar	ntly disturbed? Are "Normal	Circumstances" prese	ent? Yes 🖌 No 🔙
Are Vegetation, Soil, or Hydrology naturally	problematic? (If needed, ex	xplain any answers in	Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes No Yes No Yes No Yes No	Is the Sampled Area within a Wetland?	Yes No
Remarks:			
Point taken in a drainageway.			

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)	✓ Drainage Patterns (B10)
Saturation (A3) Oxidized Rhizospheres on Living F	Roots (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	ils (C6) Crayfish Burrows (C8)
Drift Deposits (B3) Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)	✓ Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
✓ Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No V Depth (inches): n/a	
Water Table Present? Yes Ves Ves Depth (inches): 3	
Water Table Present? Yes V No Depth (inches): 3 Saturation Present? Yes V No Depth (inches): 3	Wetland Hydrology Present? Yes Ves
Water Table Present? Yes V No Depth (inches): <u>3</u> Saturation Present? Yes V No Depth (inches): <u>3</u> (includes capillary fringe) Describe Recorded Data (stream gauge monitoring well, aerial photos, previous inspect	Wetland Hydrology Present? Yes No
Water Table Present? Yes V No Depth (inches): 3 Saturation Present? Yes V No Depth (inches): 3 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	Wetland Hydrology Present? Yes No
Water Table Present? Yes V No Depth (inches): 3 Saturation Present? Yes V No Depth (inches): 3 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	Wetland Hydrology Present? Yes No
Water Table Present? Yes V No Depth (inches): 3 Saturation Present? Yes V No Depth (inches): 3 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes No
Water Table Present? Yes V No Depth (inches): 3 Saturation Present? Yes V No Depth (inches): 3 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes No No
Water Table Present? Yes V No Depth (inches): 3 Saturation Present? Yes V No Depth (inches): 3 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes No No
Water Table Present? Yes V No Depth (inches): 3 Saturation Present? Yes V No Depth (inches): 3 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes No No
Water Table Present? Yes V No Depth (inches): 3 Saturation Present? Yes V No Depth (inches): 3 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes No No
Water Table Present? Yes V No Depth (inches): 3 Saturation Present? Yes V No Depth (inches): 3 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes No No
Water Table Present? Yes V No Depth (inches): 3 Saturation Present? Yes V No Depth (inches): 3 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes No No
Water Table Present? Yes V No Depth (inches): 3 Saturation Present? Yes V No Depth (inches): 3 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes No No
Water Table Present? Yes V No Depth (inches): 3 Saturation Present? Yes V No Depth (inches): 3 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes No
Water Table Present? Yes V No Depth (inches): 3 Saturation Present? Yes V No Depth (inches): 3 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes No
Water Table Present? Yes V No Depth (inches): 3 Saturation Present? Yes V No Depth (inches): 3 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes No

Sampling Point: FDS-39G2-1

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 feet	<u>% Cover</u>	Species?	Status	Number of Dominant Species
1. Acer rubrum	25	YES	FAC	That Are OBL, FACW, or FAC: 5 (A)
2 Liriodendron tulipifera	20	YES	FACU	
2. Liquidambar styrasiflua	20	VEQ	EAC	Total Number of Dominant
3. Liquidambal styracilida	20		FAC	Species Across All Strata: _/ (B)
4. Pinus taeda	8	NO	FAC	Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 71.4% (A/B)
6				
	73	= Total Cov	ver	Prevalence Index worksheet:
26.5			14.6	Total % Cover of: Multiply by:
50% of total cover: <u>50.5</u>	20% of	total cover	14.0	OBL species $0 x_{1} = 0$
Sapling Stratum (Plot size: 15 Teet)				FACW species $5_{x,2} = 10$
1. Liriodendron tulipifera	35	YES	FACU	EAC species 64 x 2 - 192
2.				FAC species 57 $x_3 = 102$
3				FACU species 35 $x 4 = 220$
4			·	UPL species $0 x 5 = 0$
				Column Totals: <u>124</u> (A) <u>422</u> (B)
5			·	0.40
6				Prevalence Index = $B/A = 3.40$
	35	= Total Cov	ver	Hydrophytic Vegetation Indicators:
50% of total cover: 17.5	200/ of	total aquar	70	1 - Rapid Test for Hydrophytic Vegetation
50% of total cover. 17.0	20% 0	total cover	1.0	$\sqrt{2}$ - Dominance Test is $>50\%$
Shrub Stratum (Plot size: 15 leel)	•			
1. Liquidambar styraciflua	3	YES	FAC	3 - Prevalence Index is ≤3.0
2				4 - Morphological Adaptations' (Provide supporting
3.				data in Remarks or on a separate sheet)
A				Problematic Hydrophytic Vegetation ¹ (Explain)
o			·	¹ Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
	3	= Total Cov	ver	Definitions of Five Vegetation Strata:
50% of total cover: 1.5	20% of	total cover	0.6	
Lierh Stretum (Diet eizer 5 feet	2070 01			Tree – Woody plants, excluding woody vines,
Smilax ratundifalia	Q	VES	EAC	approximately 20 ft (6 m) or more in height and 3 in.
	0		FAC	
2. Arundinaria gigantea	5	IE2	FACW	Sapling – Woody plants, excluding woody vines,
3				approximately 20 ft (6 m) or more in height and less
4.				than 3 in. (7.6 cm) DBH.
5				Shrub – Woody plants, excluding woody vines
<u>.</u>				approximately 3 to 20 ft (1 to 6 m) in height.
0			·	
7				Herb – All herbaceous (non-woody) plants, including
8				nerbaceous vines, regardless of size, and woody
9				ft (1 m) in height.
10.				
11				Woody vine – All woody vines, regardless of height.
	13	- Total Ca		
50% of total cover: 6.5	20% of	total cover	2.6	
Woody Vine Stratum (Plot size: <u>30 feet</u>)				
1. N/A				
2				
2				
J			·	
4			·	
5				Hydrophytic
	0	= Total Cov	ver	Vegetation
50% of total cover: 0.0	20% of	total cover	0.0	Present? Yes <u>V</u> No
		IN NOULUVEL		1
Domorko: (Includo photo numboro hara ante a contrato	2070 01		·	

Depth	Matrix	to the dep	Redo	x Features			i the absence	or multators.
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹		Texture	Remarks
0-12	7.5YR4/2	85	7.5YR4/3	15	0		L	
12-18	10YR5/2	95	5YR4/4	5	С	M	SL	
						·		
						·		
						·		
						·		
						·		
¹ Type: C=Co	oncentration, D=Dep	pletion, RM	=Reduced Matrix, M	S=Masked	Sand Gr	ains.	² Location: P	L=Pore Lining, M=Matrix.
Hydric Soil I	ndicators:		_				Indica	ators for Problematic Hydric Soils ³ :
	(A1)		Dark Surface	e (S7)				cm Muck (A10) (MLRA 147)
	oipedon (A2)		Polyvalue Be Thin Dark Su	elow Surfac	(NIPA) (MIPA)	/ILRA 147,	148) <u> </u>	oast Prairie Redox (A16)
	n Sulfide (A4)			ed Matrix (F	(WILKA =2)	147, 140)	ПP	iedmont Floodplain Soils (F19)
Stratified	Layers (A5)		Depleted Ma	trix (F3)	_,			(MLRA 136, 147)
🛄 2 cm Mu	ick (A10) (LRR N)		Redox Dark	Surface (F	6)		<u> </u>	ery Shallow Dark Surface (TF12)
Depleted	Below Dark Surfac	e (A11)	Depleted Da	rk Surface	(F7)			ther (Explain in Remarks)
Sandy M	ark Surface (A12) lucky Mineral (S1) (I			ese Masse	5) ss (F12) (
MLRA	147, 148)	LICIC 14,	MLRA 13	6)	,5 (1 12) (Litit it,		
Sandy G	ileyed Matrix (S4)		Umbric Surfa	, ice (F13) (I	MLRA 13	6, 122)	³ Ind	icators of hydrophytic vegetation and
Sandy R	edox (S5)		Piedmont Flo	odplain So	oils (F19)	(MLRA 14	8) we	tland hydrology must be present,
Stripped	Matrix (S6)		Red Parent N	Material (F2	21) (MLR	A 127, 147	') un	less disturbed or problematic.
Tuno	_ayer (if observed)							
Type:							Hudria Sail	
							Hydric Soli	
Remarks:								

Project/Site: Moncure-Pittsboro Road TCI 154 Acres	_ City/County: Chatham	Sampl	ing Date: 01/10/2020
Applicant/Owner: TC&I Timber Company LLC		State: NC Sam	pling Point: FDS-39G2
Investigator(s): S. Thebert, M. Gilbert	Section, Township, Range:		
Landform (hillslope, terrace, etc.): floodplain	Local relief (concave, convex, non	_{e):} convex	Slope (%): 0
Subregion (LRR or MLRA): P, 136 Lat: 35.63452	339 Long: <u>-79</u> .	0847924	Datum: NAD 83
Soil Map Unit Name: Mayoden gravelly sandy loam, 10 to	15 percent slopes	NWI classification:	Jpland
Are climatic / hydrologic conditions on the site typical for this time of	year? Yes 🖌 No 🦲 (lf no, explain in Remarks	.)
Are Vegetation Soil, or Hydrology significan	tly disturbed? Are "Normal	Circumstances" present?	Yes 🖌 No 📃
Are Vegetation, Soil, or Hydrology naturally	problematic? (If needed, ex	xplain any answers in Re	marks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes No No Yes No No Yes No No Yes No	Is the Sampled Area within a Wetland?	Yes No
Remarks:			
Point taken in a floodplain.			

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)	Drainage Patterns (B10)
Saturation (A3) Oxidized Rhizospheres on Living F	Roots (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	ils (C6) Crayfish Burrows (C8)
Drift Deposits (B3) Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)	✓ Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No ✓ Depth (inches): n/a	
Water Table Present? Yes No 🗸 Depth (inches): >18	
Saturation Present? Yes No ✓ Depth (inches): >18	Wetland Hydrology Present? Yes / No / No
Saturation Present? Yes Depth (inches): >18 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	Wetland Hydrology Present? Yes <u>V</u> No <u>No</u>
Saturation Present? Yes No ✓ Depth (inches): >18 (includes capillary fringe)	Wetland Hydrology Present? Yes No
Saturation Present? Yes No Depth (inches): >18 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	Wetland Hydrology Present? Yes <u>V</u> No <u>No</u> ions), if available:
Saturation Present? Yes No Depth (inches): >18 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes <u>V</u> No <u></u> ions), if available:
Saturation Present? Yes No ✓ Depth (inches): >18 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes <u>V</u> No <u></u> ions), if available:
Saturation Present? Yes No ✓ Depth (inches): >18 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes <u>V</u> No <u></u> ions), if available:
Saturation Present? Yes No ✓ Depth (inches): >18 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes <u>V</u> No <u></u> ions), if available:
Saturation Present? Yes No ✓ Depth (inches): >18 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes <u>V</u> No <u></u> ions), if available:
Saturation Present? Yes No ✓ Depth (inches): >18 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes <u>V</u> No <u></u> ions), if available:
Saturation Present? Yes No ✓ Depth (inches): >18 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes <u>V</u> No <u></u> ions), if available:
Saturation Present? Yes No ✓ Depth (inches): >18 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes <u>V</u> No <u></u> ions), if available:
Saturation Present? Yes No ✓ Depth (inches): >18 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes <u>V</u> No <u></u> ions), if available:
Saturation Present? Yes No ✓ Depth (inches): >18 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes <u>V</u> No <u></u> ions), if available:

Sampling Point: FDS-39G2-2

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 feet)	% Cover	Species?	Status	Number of Dominant Species
_{1.} Acer rubrum	30	YES	FAC	That Are OBL, FACW, or FAC: _5 (A)
2 Liriodendron tulipifera	20	YES	FACU	
2				Total Number of Dominant
3				Species Across All Strata: (B)
4				Percent of Dominant Species
5				That Are OBL. FACW. or FAC: 71.4% (A/B)
6.				
	50	- Total Cov	or	Prevalence Index worksheet:
05.0		- 10101 001	40.0	Total % Cover of: Multiply by:
50% of total cover: 25.0	20% of	f total cover:	10.0	OBL species $0 \times 1 = 0$
Sapling Stratum (Plot size: 15 feet)				$\overline{30}$ x 2 $\overline{60}$
_{1.} Liriodendron tulipifera	20	YES	FACU	FACT species $\frac{100}{46}$ $x_2 = \frac{100}{100}$
2 Magnolia virginiana	15	YES	FACW	FAC species 40 x 3 = 150
o Pinus taeda	5		FAC	FACU species <u>40</u> x 4 = <u>160</u>
	5		TAC	UPL species 0 $x_5 = 0$
4. Acer rubrum	3	NO	FAC	Column Totals 116 (A) 358 (B)
5				
6.				Prevalence Index = $B/A = 3.09$
	43	- Total Cov	or	
	10			
50% of total cover: 21.5	20% of	f total cover:	8.6	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 15 feet)				✓ 2 - Dominance Test is >50%
1 Magnolia virginiana	5	YES	FACW	3 - Prevalence Index is $\leq 3.0^1$
				- 4 - Morphological Adaptations ¹ (Provide supporting
2				data in Remarks or on a separate sheet)
3				Problematic Hydrophytic Vegetation ¹ (Explain)
4				
5.				
6				Indicators of hydric soil and wetland hydrology must
	5	Tatal Cau		be present, unless disturbed or problematic.
	0	= Total Cov	er	Definitions of Five Vegetation Strata:
50% of total cover: <u>2.5</u>	20% of	f total cover:	1.0	Tree Weedy plants evaluating weedy vince
Herb Stratum (Plot size: 5 feet				approximately 20 ft (6 m) or more in height and 3 in
Arundianria gigantea	10	YES	FACW	(7.6 cm) or larger in diameter at breast height (DBH).
Smilay rotundifolia	8		FAC	
	0	TLO	TAO	Sapling – Woody plants, excluding woody vines,
3				approximately 20 ft (6 m) or more in height and less
4				than 3 ln. (7.6 cm) DBH.
5.				Shrub – Woody plants, excluding woody vines.
6				approximately 3 to 20 ft (1 to 6 m) in height.
		·		
1				Herb – All herbaceous (non-woody) plants, including
8				plants except woody vines less than approximately 3
9				ft (1 m) in height.
10.				
11				Woody vine – All woody vines, regardless of height.
· · · ·	18	Tatal Oa		
	10	= Total Cov	er	
50% of total cover: <u>9.0</u>	20% of	f total cover:	3.6	
Woody Vine Stratum (Plot size: 30 feet)				
1 N/A				
1				
2				
3				
4				
5				
	0	- Total Car	or	Hydrophytic
	<u> </u>			Present? Vos V
50% of total cover: 0.0	20% of	f total cover:	0.0	
Remarks: (Include photo numbers here or on a separate s	sheet.)			•

SOIL	
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Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth	Matrix		Redo	x Feature	S			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-4	10YR3/4	100					CL	
4-11	10YR4/3	90	10YR4/4	С	М	10	CL	
11-18	10YR5/2	92	2.5YR4/6	С	М	8	CL	
							·	
		<u> </u>					<u> </u>	
							·	
		·				·		
·								
						- <u> </u>		
¹ Type: C=Co	oncentration, D=Dep	letion, RM:	=Reduced Matrix, MS	S=Masked	d Sand Gr	ains.	² Location: PL=	=Pore Lining, M=Matrix.
Hydric Soil I	ndicators:		·				Indicat	ors for Problematic Hydric Soils ³ :
Histosol	(A1)		Dark Surface	(S7)			🔲 2 c	m Muck (A10) (MLRA 147)
Histic Ep	pipedon (A2)		Polyvalue Be	low Surfa	ice (S8) (N	/LRA 147,	, 148) 🔲 Co	ast Prairie Redox (A16)
Black Hi	stic (A3)		🔲 Thin Dark Su	rface (S9) (MLRA '	147, 148)	((MLRA 147, 148)
Hydroge	n Sulfide (A4)		Loamy Gleye	d Matrix ((F2)		🛄 Pie	edmont Floodplain Soils (F19)
Stratified	Layers (A5)		Depleted Mat	rix (F3)			_ ((MLRA 136, 147)
2 cm Mu	ck (A10) (LRR N)	<i></i>	Redox Dark S	Surface (F	=6)			ry Shallow Dark Surface (TF12)
	Below Dark Surface	e (A11)	Depleted Dar	k Surface	e (F7)			ner (Explain in Remarks)
	ark Surrace (A12)			SSIONS (F	8) 00 (E12) (
	147 148)			550 IVIASS	65 (112)	LNN N,		
Sandy G	leved Matrix (S4)			ce (F13)	(MI RA 13	36, 122)	³ Indic	ators of hydrophytic vegetation and
Sandy R	edox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	18) wet	and hydrology must be present.
Stripped	Matrix (S6)		Red Parent M	laterial (F	² 21) (MLR	A 127, 14	7) unle	ess disturbed or problematic.
Restrictive L	ayer (if observed):				, ,			·
Type:								
Depth (inc	ches):						Hydric Soil F	Present? Yes No V
Remarks:							•	

_ City/County: Chatham	Sam	pling Date: 01/10/2020
	State: NC Sa	ampling Point: FDS-39H2-1
_ Section, Township, Range:		
Local relief (concave, convex, non	_{e):} concave	Slope (%): <u>1</u>
215 Long: <u>-79</u> .	08466308	Datum: NAD 83
15 percent slopes	NWI classification:	Upland
year? Yes 🖌 No 🦲 (I	lf no, explain in Remarl	ks.)
tly disturbed? Are "Normal	Circumstances" preser	nt? Yes 🖌 No 📃
problematic? (If needed, ex	xplain any answers in F	Remarks.)
	_ City/County: <u>Chatham</u> _ Section, Township, Range: Local relief (concave, convex, non 215 Long: -79. 15 percent slopes year? Yes ✓ No (I tly disturbed? Are "Normal problematic? (If needed, ez	_ City/County: ChathamSamState: NCSamState: NCSamSa

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes No Yes V Yes No Yes No	Is the Sampled Area within a Wetland?	Yes 🖌 No 🦳
Remarks:			
Point taken in a draw.			

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)	✓ Drainage Patterns (B10)
Saturation (A3) Oxidized Rhizospheres on Living F	Roots (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	ils (C6) Crayfish Burrows (C8)
Drift Deposits (B3) Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)	✓ Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No ✓ Depth (inches): n/a	
Water Table Present? Ves 🗸 No Depth (inches): 0	
Saturation Present? Yes V No Depth (inches): 0	Wetland Hydrology Present? Yes Ve
Saturation Present? Yes V No Depth (inches): 0 (includes capillary fringe)	Wetland Hydrology Present? Yes <u>No</u> No
Saturation Present? Yes ✓ No Depth (inches):	Wetland Hydrology Present? Yes No No
Saturation Present? Yes V No Depth (inches): 0 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	Wetland Hydrology Present? Yes No No
Saturation Present? Yes ✓ No Depth (inclus):	Wetland Hydrology Present? Yes No No
Saturation Present? Yes ✓ No Depth (inches): 0 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes No No
Saturation Present? Yes No Depth (inclus): 0 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes <u>No</u> No <u></u> ions), if available:
Saturation Present? Yes / No Depth (inches): 0 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes <u>V</u> No <u></u> ions), if available:
Saturation Present? Yes Image: Comparison of the second seco	Wetland Hydrology Present? Yes No No
Saturation Present? Yes / No Depth (inches): 0 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes No No
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Saturation Present? Yes ✓ No Depth (inches): 0 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes No

Sampling Point: FDS-39H2-1

20 fact	Absolute	Dominant Inc	dicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: <u>30 Teet</u>) 1. <u>N/A</u>	% Cover	Species? S	<u>Status</u>	Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)
23		· ·		Total Number of Dominant
4.				Species Across Air Strata. (b)
5				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
o	0	= Total Cover		Prevalence Index worksheet:
	000/ af		0	Total % Cover of: Multiply by:
50% of total cover: 0.0	20% of	total cover: 0.	.0	OBL species 0 x 1 = 0
$\frac{\text{Sapling Stratum}}{\sqrt{N/\Delta}}$ (Plot size: 10 leet)		VES		FACW species 0 x 2 = 0
				FAC species 90 x 3 = 270
2				FACU species $0 x 4 = 0$
3				UPL species $0 \times 5 = 0$
4	·			Column Totals: <u>90</u> (A) <u>270</u> (B)
5 6				Prevalence Index = B/A = 3.00
	0 :	= Total Cover		Hydrophytic Vegetation Indicators:
50% of total cover: 0.0	20% of	total cover: 0.	.0	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 15 feet)				✓ 2 - Dominance Test is >50%
1. N/A				3 - Prevalence Index is ≤3.0 ¹
2				4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
3			<u> </u>	Problematic Hydrophytic Vegetation ¹ (Explain)
4				
5				¹ Indicators of bydric soil and wetland bydrology must
6				be present, unless disturbed or problematic.
	0 :	= Total Cover		Definitions of Five Vegetation Strata:
50% of total cover: 0.0	20% of	total cover: 0.	.0	Trop Woody plants, excluding woody vines
Herb Stratum (Plot size: 5 feet)				approximately 20 ft (6 m) or more in height and 3 in.
1. Microstegium vimineum	90	YES F.	AC	(7.6 cm) or larger in diameter at breast height (DBH).
2				Sapling – Woody plants, excluding woody vines,
3				approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
5				Shrub – Woody plants, excluding woody vines
6				approximately 3 to 20 ft (1 to 6 m) in height.
7				Herb - All herbaceous (non-woody) plants, including
8				herbaceous vines, regardless of size, and woody
9	·			ft (1 m) in height.
10				Woody vine – All woody vines, regardless of height
11				An woody vines, regardless of height.
	90	= Total Cover		
50% of total cover: <u>45.0</u>	20% of	total cover: 18	8.0	
Woody Vine Stratum (Plot size: 30 feet)				
1. <u>N/A</u>				
2				
3				
4				
5				I hadron hardin
	0	= Total Cover		Hydrophytic
50% of total cover: 0.0	20% of	total cover 0.	.0	Present? Yes No
Remarks: (Include photo numbers here or on a separate s	207001			

Profile Desc	ription: (Describe	to the dep	th needed to docum	nent the i	ndicator	or confirm	the absence	of indicators.)
Depth (inches)	Matrix Color (moist)	0/_	Color (moist)	<u>< Features</u> %			Toxturo	Pemarks
0-7	10YR4/2	92	10YR4/6	8	C	M	SL	
7-15	10VR6/2	85	10YR4/6	15	<u> </u>		<u>s</u>	
15 10	10//0/2	00	10/05/6	20	<u> </u>	<u>N</u>	80	
10-10	101 R0/2	00	101 K3/0	20	<u> </u>	IVI	30L	
		·				·		
1-							21 11 2	
Type: C=Co	oncentration, D=Dep	letion, RM	=Reduced Matrix, MS	=Masked	Sand Gr	ains.	Location: P	L=Pore Lining, M=Matrix.
	(A1)			(97)				cm Muck (A10) (MI DA 147)
	pipedon (A2)		Polyvalue Bel	(37) low Surfa	ce (S8) (I	/LRA 147.	148) \square C	coast Prairie Redox (A16)
Black His	stic (A3)		Thin Dark Su	rface (S9)	(MLRA	147, 148)	, <u> </u>	(MLRA 147, 148)
Hydroge	n Sulfide (A4)		Loamy Gleye	d Matrix (F2)		🔲 Р	iedmont Floodplain Soils (F19)
Stratified	Layers (A5)		Depleted Mat	rix (F3)				(MLRA 136, 147)
Depleter	CK (A10) (LRR N) I Below Dark Surfac	۵ (۵11)	Redox Dark S Depleted Dar	Surface (F	6) (F7)			ery Shallow Dark Surface (TF12)
Thick Da	ark Surface (A12)	0 (ATT)	Redox Depre	ssions (F	3)			
Sandy M	lucky Mineral (S1) (I	LRR N,	Iron-Mangane	ese Masse	, es (F12) (LRR N,		
MLRA	A 147, 148)		MLRA 136	5)			2	
Sandy G	leyed Matrix (S4)		Umbric Surfa	ce (F13) (MLRA 13	36, 122)	°Ind	icators of hydrophytic vegetation and
Sandy R	edox (S5) Matrix (S6)		Piedmont Flo Red Parent M	odplain So Asterial (F	oils (F19) 21) (MI R	(MLRA 14	18) we	itland hydrology must be present,
Restrictive L	aver (if observed):	:				A 121, 141		less disturbed of problematic.
Type:								
Depth (inc	ches):						Hydric Soil	Present? Yes 🖌 No
Remarks:	,							

Project/Site: Moncure-Pittsboro Road TCI 154 Acres	_ City/County: Chatham	Samp	oling Date: 01/10/2020
Applicant/Owner: TC&I Timber Company LLC		State: NC Sar	mpling Point: FDS-39H2-2
Investigator(s): S. Thebert, M. Gilbert	Section, Township, Range:		
Landform (hillslope, terrace, etc.): sideslope	Local relief (concave, convex, non	_{le):} convex	Slope (%): <u>3-5</u>
Subregion (LRR or MLRA): P, 136 Lat: 35.63410	991 Long: <u>-79</u> .	08469553	Datum: NAD 83
Soil Map Unit Name: Mayoden gravelly sandy loam, 10 to	15 percent slopes	NWI classification:	Upland
Are climatic / hydrologic conditions on the site typical for this time of	year? Yes 🖌 No 🦲 (If no, explain in Remarks	s.)
Are Vegetation Soil, or Hydrology significar	ntly disturbed? Are "Normal	Circumstances" present	? Yes 🖌 No 📃
Are Vegetation, Soil, or Hydrology naturally	problematic? (If needed, e	xplain any answers in R	emarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes No Yes No ✓ Yes No ✓	Is the Sampled Area within a Wetland?	Yes No
Remarks:			
Point taken on a sideslope.			

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)	Drainage Patterns (B10)
Saturation (A3) Oxidized Rhizospheres on Living R	oots (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	ls (C6) Crayfish Burrows (C8)
Drift Deposits (B3)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No 🗹 Depth (inches): n/a	
Water Table Present? Yes No 🖌 Depth (inches): >18	
Sofuration Propert? Voc No / Donth (inches): >18	Wetland Hydrology Present? Yes No 🖌
(includes capillary fringe)	one) if available:
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspecti	ons), if available:
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspecti	ons), if available:
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Saturation Present? res No Depth (incles) (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspecti Remarks: Remarks:	ons), if available:
Saturation Present? res No Deptin (inclus) (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspecti Remarks: Remarks:	ons), if available:
Saturation Present? res No Depth (inclus) (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspecti Remarks:	ons), if available:

Sampling Point: FDS-39H2-2

00.6	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 feet)	% Cover	Species?	Status	Number of Dominant Species
_{1.} Pinus taeda	80	YES	FAC	That Are OBL, FACW, or FAC: <u>3</u> (A)
2.				
3			·	Total Number of Dominant
<u> </u>				Species Across All Strata: (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 75.0% (A/B)
6				
	80	= Total Cov	er	Prevalence Index worksheet:
5000 (1.1.1. 10.0			16.0	Total % Cover of: Multiply by:
50% of total cover: 40.0	20% of	total cover	10.0	OBL species $0 x_1 = 0$
Sapling Stratum (Plot size: 15 leel)				FACW species $0 \qquad x_2 = 0$
1. Pinus taeda	15	YES	FAC	EAC species 128 x 3 - 384
_{2.} Quercus nigra	10	NO	FAC	The species $\frac{120}{13}$ $x_3 = \frac{501}{52}$
3				FACU species 13 $x 4 = 32$
4				UPL species $0 x 5 = 0$
				Column Totals: <u>141</u> (A) <u>436</u> (B)
5				0.00
6				Prevalence Index = $B/A = 3.09$
	25	= Total Cov	er	Hydrophytic Vegetation Indicators:
50% of total cover: 12.5	200/ of	total anyor	5.0	1 - Rapid Test for Hydrophytic Vegetation
50% Of total cover. <u>12.0</u>	20% 0	total cover	0.0	$\sqrt{2}$ 2 Dominance Test is $>50\%$
Shrub Stratum (Plot size: 15 leel)	4.0			
1. Liquidambar styraciflua	10	YES	FAC	3 - Prevalence Index is ≤3.0
_{2.} Quercus nigra	8	YES	FAC	4 - Morphological Adaptations' (Provide supporting
_{3.} Juniperus virginiana	5	NO	FACU	data in Remarks or on a separate sheet)
A Pinus taeda	5	NO	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
- llex onaca	3	NO	FACU	
	0		17100	¹ Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
	31	- Total Cav	~ ~	
			er	Definitions of Five Vegetation Strata:
50% of total cover: 15.5	20% of	total cover	6.2	Definitions of Five Vegetation Strata:
50% of total cover: <u>15.5</u>	20% of	total cover:	6.2	Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines,
50% of total cover: <u>15.5</u> <u>Herb Stratum</u> (Plot size: <u>5 feet</u>)	20% of	total cover:	6.2	Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH)
50% of total cover: <u>15.5</u> <u>Herb Stratum</u> (Plot size: <u>5 feet</u>) 1. Lonicera japonica	20% of	total cover: YES	6.2 FACU	Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
50% of total cover: <u>15.5</u> <u>Herb Stratum</u> (Plot size: <u>5 feet</u>) 1. Lonicera japonica 2.	20% of	total cover:	6.2 FACU	Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines,
50% of total cover: <u>15.5</u> <u>Herb Stratum</u> (Plot size: <u>5 feet</u>) <u>1. Lonicera japonica</u> 2. 3.	20% of	total cover:	6.2 FACU	Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
50% of total cover: <u>15.5</u> <u>Herb Stratum</u> (Plot size: <u>5 feet</u>) <u>1. Lonicera japonica</u> 2. 3. 4.	20% of	total cover:	6.2 FACU	 Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
50% of total cover: <u>15.5</u> <u>Herb Stratum</u> (Plot size: <u>5 feet</u>) <u>1. Lonicera japonica</u> 2. 3. 4. 5	20% of 5	YES	<u>6.2</u> <u>FACU</u>	Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shruh – Woody plants, excluding woody vines,
50% of total cover: <u>15.5</u> <u>Herb Stratum</u> (Plot size: <u>5 feet</u>) <u>1. Lonicera japonica</u> 2	20% of 5	YES	<u>6.2</u> <u>FACU</u>	 Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
50% of total cover: <u>15.5</u> <u>Herb Stratum</u> (Plot size: <u>5 feet</u>) <u>1. Lonicera japonica</u> 23	20% of 5	YES	6.2 FACU	 Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
50% of total cover: <u>15.5</u> <u>Herb Stratum</u> (Plot size: <u>5 feet</u>) 1. Lonicera japonica 2	20% of 5	YES	<u>6.2</u> <u>FACU</u>	 Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including
50% of total cover: 15.5 Herb Stratum (Plot size: 5 feet) 1. Lonicera japonica 2	20% of 5	YES	<u>FACU</u>	 Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants are stran approximately 3
50% of total cover: 15.5 Herb Stratum (Plot size: 5 feet) 1. Lonicera japonica 2	20% of 5	YES		 Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
50% of total cover: 15.5 Herb Stratum (Plot size: 5 feet) 1. Lonicera japonica 2. 3. 4. 5. 6. 7. 8. 9. 10.	20% of 5	YES	6.2 FACU	 Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
50% of total cover: 15.5 Herb Stratum (Plot size: 5 feet) 1. Lonicera japonica 2. 3. 4. 5. 6. 7. 8. 9. 10. 11	20% of 5 	YES		 Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
50% of total cover: 15.5 Herb Stratum (Plot size: 5 feet) 1. Lonicera japonica 2. 3. 4. 5. 6. 7. 8. 9. 10. 11.	20% of 5 	YES	6.2 FACU	 Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
50% of total cover: 15.5 Herb Stratum (Plot size: 5 feet) 1. Lonicera japonica 2. 3. 4. 5. 6. 7. 8. 9. 10. 11.	20% of 5 5	YES	6.2 FACU	 Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
50% of total cover: 15.5 Herb Stratum (Plot size: 5 feet) 1. Lonicera japonica 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 2.5	20% of 5 5 20% of	YES	6.2 FACU FACU	 Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
50% of total cover: 15.5 Herb Stratum (Plot size: 5 feet) 1. Lonicera japonica	20% of 5 5 20% of	YES Total Cover	6.2 FACU	 Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
50% of total cover: 15.5 Herb Stratum (Plot size: 5 feet) 1. Lonicera japonica	20% of 5 5 20% of	YES	6.2 FACU FACU 	 Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
50% of total cover: 15.5 Herb Stratum (Plot size: 5 feet) 1. Lonicera japonica 2	20% of 5 5 20% of	YES	6.2 FACU FACU FACU FACU FACU FACU FACU FACU FACU FACU FACU	 Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
50% of total cover: 15.5 Herb Stratum (Plot size: 5 feet) 1. Lonicera japonica	20% of 5 5 20% of	YES	6.2 FACU 	 Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
50% of total cover: 15.5 Herb Stratum (Plot size: 5 feet) 1. Lonicera japonica 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 2.5 Woody Vine Stratum (Plot size: 30 feet) 1. N/A 2. 3.	20% of 5 5 20% of	Total Cover.	6.2 FACU 	 Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
50% of total cover: 15.5 Herb Stratum (Plot size: 5 feet) 1. Lonicera japonica 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 2.5 Woody Vine Stratum (Plot size: 30 feet) 1. N/A 2. 3. 4.	20% of 5 5 20% of	Total Cover:	er 1.0	 Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
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50% of total cover: 15.5 Herb Stratum (Plot size: 5 feet) 1. Lonicera japonica 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 2.5 Woody Vine Stratum (Plot size: 30 feet) 1. N/A 2. 3. 4. 50% of total cover: 2.5 Woody Vine Stratum (Plot size: 30 feet) 1. N/A 2. 3. 4. 5. 50% of total cover: 0.0	20% of 5 5 5 20% of 0 20% of	Total Cover:	er 6.2 FACU FACU 	Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height. Hydrophytic Vegetation Present? Yes No

SOIL	
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inches)		~ /	Redo	x Feature	es1	2	- /	
13	Color (moist)	100	Color (moist)	%	Туре	Loc	Texture	Remarks
	101 R4/2	100	40)/D4/0	40		<u> </u>	<u> </u>	
3-14	10YR6/3	60	10YR4/3	40	C	M	L	
4-18	10YR6/4	70	10YR5/8	30	С	Μ	SCL	
					. <u> </u>			
					·			
	. <u> </u>				- <u> </u>	·		
ype: C=C	oncentration, D=De	pletion, RM	I=Reduced Matrix, M	S=Maske	d Sand Gi	ains.	² Location: PL	=Pore Lining, M=Matrix.
/dric Soil	Indicators:						Indicat	tors for Problematic Hydric Soils ³ :
Histosol	(A1)		Dark Surface	e (S7)			<u> </u>	cm Muck (A10) (MLRA 147)
Histic E	oipedon (A2)		Polyvalue Be	elow Surfa	ace (S8) (I	/ILRA 147,	148) 🗌 Co	oast Prairie Redox (A16)
Black Hi	stic (A3)		Thin Dark Su	urface (SS) (MLRA	147, 148)		(MLRA 147, 148)
☐ Hydroge	en Sulfide (A4)			ed Matrix	(F2)		L Pie	edmont Floodplain Soils (F19)
				IIIIX (F3) Surface (F6)			(MILRA 130, 147)
Deplete	d Below Dark Surfa	ce (A11)	Depleted Da	rk Surface	e (F7)			her (Explain in Remarks)
Thick Da	ark Surface (A12)	()	Redox Depre	essions (F	-8)			····· (
Sandy N	lucky Mineral (S1)	(LRR N,	Iron-Mangar	ese Mass	ses (F12)	LRR N,		
MLR	A 147, 148)		MLRA 13	6)				
Sandy G	Bleyed Matrix (S4)		Umbric Surfa	ace (F13)	(MLRA 1	86, 122)	³ Indic	cators of hydrophytic vegetation and
Sandy F	Redox (S5)		Piedmont Flo	odplain S	Soils (F19)	(MLRA 14	18) wetl	and hydrology must be present,
	Matrix (S6)	\.	Red Parent	Viaterial (I	-21) (MLF	A 127, 14	() unle	ess disturbed or problematic.
Turner	Layer (if observed):						
Type:	ches):						Hydric Soil F	Present? Yes No 🔽
Depth (in								
Depth (in emarks:								
Depth (in emarks:								
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Project/Site: Moncure-Pittsboro Road TCI 154 Acres	City/County: Chatham	Samp	oling Date: 01/09/2020
Applicant/Owner: TC&I Timber Company LLC		State: NC Sa	mpling Point: FDS-39I1-1
Investigator(s): S. Thebert, M. Gilbert	Section, Township, Range:		
Landform (hillslope, terrace, etc.): floodplain	Local relief (concave, convex, nor	ne): concave	Slope (%): 0
Subregion (LRR or MLRA): P, 136 Lat: 35.62966	6593 Long:79.	.08217945	Datum: NAD 83
Soil Map Unit Name: Mayoden fine sandy loam, 6 to 10 p	ercent slopes	NWI classification:	Upland
Are climatic / hydrologic conditions on the site typical for this time of	of year? Yes 🚺 No 🦲 (If no, explain in Remark	s.)
Are Vegetation Soil, or Hydrology significa	ntly disturbed? Are "Normal	Circumstances" presen	t? Yes 🖌 No 📃
Are Vegetation, Soil, or Hydrology naturally	v problematic? (If needed, e	explain any answers in R	emarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes No Yes No Yes No Yes No	Is the Sampled Area within a Wetland?	Yes No
Remarks:			
Point taken in a floodplain.			

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)	Drainage Patterns (B10)
Saturation (A3) Oxidized Rhizospheres on Living F	Roots (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	ils (C6) Crayfish Burrows (C8)
Drift Deposits (B3) Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)	✓ Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No ✓ Depth (inches): n/a	
Water Table Present? Yes No ✓ Depth (inches); >18	
Saturation Present? Yes No V Depth (inches): >18	Wetland Hydrology Present? Yes No
Saturation Present? Yes No Z Depth (inches): >18 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	Wetland Hydrology Present? Yes No
Saturation Present? Yes No Depth (inches): >18 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	Wetland Hydrology Present? Yes No
Saturation Present? Yes No Depth (inches): >18 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes No
Saturation Present? Yes No C Depth (inches): >18 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes No
Saturation Present? Yes No ✓ Depth (inches): >18 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes No
Saturation Present? Yes No ✓ Depth (inches): >18 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes No
Saturation Present? Yes No Depth (inches): >18 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes No
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Saturation Present? Yes No Depth (inches): >18 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes No
Sampling Point: FDS-39I1-1

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 feet)	% Cover	Species?	Status	Number of Dominant Species
_{1.} Pinus taeda	50	YES	FAC	That Are OBL, FACW, or FAC: 6 (A)
2 Liguidambar styraciflua	35	YES	FAC	
2 Acer rubrum	15	NO	FAC	Total Number of Dominant
5. <u>7100110010111</u>	10			Species Across All Strata: 0 (B)
4				Percent of Dominant Species
5			·	That Are OBL, FACW, or FAC: 75.0% (A/B)
6				
	100	= Total Cov	rer	Prevalence Index worksheet:
50.0			20.0	Total % Cover of: Multiply by:
50% of total cover: 50.0	20% 01	total cover	20.0	OBL species $0 x 1 = 0$
Sapling Stratum (Plot size: 15 leel)				FACW species 5 $x_{2} = 10$
1. Acer rubrum	20	YES	FAC	EAC species $150 \times 3 - 450$
_{2.} Ilex opaca	10	YES	FACU	35 110
3 Betula nigra	5	NO	FACW	FACU species 35 $x 4 = 140$
<u>.</u>			·	UPL species $0 x 5 = 0$
4				Column Totals: <u>190</u> (A) <u>600</u> (B)
5				0.40
6				Prevalence Index = $B/A = 3.16$
	35	= Total Cov	rer	Hydrophytic Vegetation Indicators:
50% of total anyon 17.5	200/ at	f total any ar	70	1 - Rapid Test for Hydrophytic Vegetation
	20% 0	total cover	1.0	2 Dominance Test is $>50%$
Shrub Stratum (Plot size: 15 leel)	05			
1. Ilex opaca	25	YES	FACU	3 - Prevalence Index is ≤3.0
_{2.} Quercus nigra	15	YES	FAC	4 - Morphological Adaptations ¹ (Provide supporting
3.				data in Remarks or on a separate sheet)
4		·		Problematic Hydrophytic Vegetation ¹ (Explain)
4				
5				¹ Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
	40	= Total Cov	rer	Definitions of Five Vegetation Strata:
50% of total cover: 20.0	20% of	f total cover	8.0	
50% of total cover. <u>2010</u>	20 % 01	lotal cover		Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 leet)	10	VEC	FAO	approximately 20 ft (6 m) or more in height and 3 in.
1. Carex caroliniana	10	<u>TES</u>	FAC	(7.6 cm) of larger in diameter at breast height (DBH).
_{2.} Smilax rotundifolia	5	YES	FAC	Sapling – Woody plants, excluding woody vines.
3		_		approximately 20 ft (6 m) or more in height and less
4				than 3 in. (7.6 cm) DBH.
			·	Shruh Wady planta avaluding wady vince
		·	·	approximately 3 to 20 ft (1 to 6 m) in height
6			·	
7				Herb – All herbaceous (non-woody) plants, including
8				herbaceous vines, regardless of size, and woody
9.				plants, except woody vines, less than approximately 3
10				
10		-		Woody vine – All woody vines, regardless of height.
11	15		·	
	15	= Total Cov	rer	
50% of total cover: 7.5	20% of	f total cover	3.0	
Woody Vine Stratum (Plot size: 30 feet)				
N/A				
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1				
2		·		
3				
4.				
5				
	0	- Total Ca		Hydrophytic
				Present? Ves Ves
50% of total cover: 0.0	20% of	f total cover	0.0	
Remarks: (Include photo numbers here or on a separate s	sheet.)			•
Remarks. (include photo numbers here of on a separate s				

Sampling Point: FDS-39I1-1

icnes)		0/	Redo	x Features	Tune ¹	L c c ²	Tautor	Domorte
_10		<u>~</u> <u>%</u>		<u>%</u>	C	M		
• 10	10113/2		10113/4	<u> </u>				
J-16	10YR4/2	60	10YR5/2	38	D	M		
			10YR5/6	2	С	Μ	CL	
						·		
						·		
be: C=C	oncentration, D=De	epletion, RM	I=Reduced Matrix, M	S=Masked S	Sand Gra	ains.	² Location	n: PL=Pore Lining, M=Matrix.
Iric Soil	Indicators:	· · · · ·	,				In	dicators for Problematic Hydric Soils ³
Histosol	(A1)		Dark Surface	e (S7)				2 cm Muck (A10) (MLRA 147)
Histic E	pipedon (A2)		Polyvalue Be	low Surface	e (S8) (N	ILRA 147,	148)	Coast Prairie Redox (A16)
Black Hi	istic (A3)		Thin Dark Su	ırface (S9) (MLRA 1	47, 148)	, _	(MLRA 147, 148)
Hydroge	en Sulfide (A4)		Loamy Gleye	ed Matrix (F2	2)			Piedmont Floodplain Soils (F19)
Stratified	d Layers (A5)		Depleted Ma	trix (F3)				(MLRA 136, 147)
2 cm Mu	uck (A10) (LRR N)		Redox Dark	Surface (F6)			Very Shallow Dark Surface (TF12)
Deplete	d Below Dark Surfa	ace (A11)	Depleted Da	rk Surface (I	F7)			Other (Explain in Remarks)
Thick Da	ark Surface (A12)		Redox Depre	essions (F8)				
Sandy N	/lucky Mineral (S1)	(LRR N,	Iron-Mangan	ese Masses	s (F12) (LRR N,		
MLRA	A 147, 148)			6)				3
Sandy G	Bleyed Matrix (S4)			ice (⊦13) (M	ILRA 13	6, 122)	0)	Indicators of hydrophytic vegetation and
Sandy F	(COX (SS)			Actorial (F2)	IS (F19)	(IVILKA 14	·δ) 7\	wetland hydrology must be present,
Stripped	I Matrix (56)	<u>.</u>		viateriai (F2*		A 127, 147) 	unless disturbed or problematic.
	Layer (II observed	<i>ı</i>).						
Type:								
Depth (in	ches):		<u> </u>				Hydric	Soil Present? Yes No
narks:								

_ City/County: Chatham	San	npling Date: 01/09/2020
	State: NC S	ampling Point: FDS-39L1-1
Section, Township, Range:		
Local relief (concave, convex, nor	ne): concave	Slope (%): <u>1</u>
334 Long: <u>-79</u> .	08135307	Datum: NAD 83
ercent slopes	NWI classification	_{n:} Upland
year? Yes 🖌 No 🗌 (If no, explain in Rema	rks.)
atly disturbed? Are "Normal	Circumstances" prese	nt? Yes 🖌 No 📃
problematic? (If needed, e	xplain any answers in	Remarks.)
	City/County: <u>Chatham</u> Section, Township, Range: Local relief (concave, convex, nor <u>334</u> Long: <u>-79</u> . ercent slopes year? Yes No (ttly disturbed? Are "Normal problematic? (If needed, e	City/County: ChathamSar State: NCS Section, Township, Range: Local relief (concave, convex, none): CONCAVE 334Long: -79.08135307 ercent slopesNVI classification year? Yes ✓ No (If no, explain in Rema ttly disturbed? Are "Normal Circumstances" prese problematic? (If needed, explain any answers in

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes No Yes No Yes No Yes No	Is the Sampled Area within a Wetland?	Yes No
Remarks:			
Point taken in a draw.			

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)	Drainage Patterns (B10)
Saturation (A3) Oxidized Rhizospheres on Living F	Roots (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	ils (C6) Crayfish Burrows (C8)
Drift Deposits (B3) Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No 🗸 Depth (inches): n/a	
Water Table Present? Yes No ✓ Depth (inches): >18	
Saturation Present? Yes No 🗸 Depth (inches): >18	Wetland Hydrology Present? Yes No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	ions), if available:
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	ions), if available:
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	ions), if available:
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	ions), if available:
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	ions), if available:
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	ions), if available:
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	ions), if available:
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	ions), if available:
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	ions), if available:
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	ions), if available:
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	ions), if available:
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	ions), if available:

Sampling Point: FDS-39L1-1

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 feet)	% Cover	Species?	Status	Number of Dominant Species
_{1.} Pinus taeda	80	YES	FAC	That Are OBL, FACW, or FAC: 6 (A)
2	· · · · · · · · · · · · · · · · · · ·			
	·	•	·	Total Number of Dominant
3	·			Species Across All Strata: 8 (B)
4				Development of Development Operation
5.				That Aro OBL EACW or EAC: 75.0%
6			·	
0	80		·	Prevalence Index worksheet:
	00	= Total Cov	/er	Total % Cover of: Multiply by:
50% of total cover: <u>40.0</u>	20% of	f total cover	<u>:</u> 16.0	$\frac{1}{OBL} = \frac{1}{OBL} = \frac{1}$
Sapling Stratum (Plot size: 15 feet)				
1 Pinus taeda	10	YES	FAC	FACW species 0 $x^2 = 0$
	10	VES	EACU	FAC species 151 x 3 = 453
	- 10		1,400	FACU species 38 $x_4 = 152$
3. Acer rubrum	5	YES	FAC	UPL species $0 \times 5 = 0$
4	·			$\frac{189}{189}$
5.				$\begin{array}{c} \text{Column rotals.} \underline{ 100} \\ \text{(A)} \\ \underline{ 000} \\ \text{(B)} \end{array}$
6				Prevalence Index = B/A = 3.20
0	25	Trial Ori	·	
	20	= Total Cov	/er	Hydrophytic Vegetation Indicators:
50% of total cover: <u>12.5</u>	20% of	f total cover	<u>: 5.0</u>	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 15 feet)				✓ 2 - Dominance Test is >50%
1 Liquidambar styraciflua	15	YES	FAC	\square 3 - Prevalence Index is ≤3.0 ¹
	10	VES	EACU	\square 4 - Morphological Adaptations ¹ (Provide supporting
	- 10		1700	data in Remarks or on a separate sheet)
3. Acer rubrum	8	YES	FAC	Problematic Hydrophytic Vegetation ¹ (Evaluin)
4				
5.				
6				Indicators of hydric soil and wetland hydrology must
	33	Tatal Car		be present, unless disturbed of problematic.
	00	= Total Cov	/er	Definitions of Five Vegetation Strata:
50% of total cover: <u>16.5</u>	20% of	f total cover	<u>:</u> 6.6	Tree Woody planta avaluding woody vince
Herb Stratum (Plot size: 5 feet				approximately 20 ft (6 m) or more in height and 3 in
1 Rubus pensilvanicus	30	YES	FAC	(7.6 cm) or larger in diameter at breast height (DBH).
	10		EACU	
	- 10			Sapling – Woody plants, excluding woody vines,
3. Ilex opaca	5	NO	FACU	approximately 20 ft (6 m) or more in height and less
_{4.} Pinus taeda	3	NO	FAC	than 3 ln. (7.6 cm) DBH.
_{5.} Rosa multiflora	3	NO	FACU	Shrub – Woody plants, excluding woody vines.
6			·	approximately 3 to 20 ft (1 to 6 m) in height.
	·		·	
/	·			Herb – All herbaceous (non-woody) plants, including
8	·			plants, except woody vines, less than approximately 3
9				ft (1 m) in height.
10.				
11				Woody vine – All woody vines, regardless of height.
· · · ·	51	TullOu	· · · · ·	
	01	= Total Cov	/er	
50% of total cover: <u>25.5</u>	20% of	f total cover	<u>.</u> 10.2	
Woody Vine Stratum (Plot size: 30 feet)				
1 N/A				
1. <u></u>		•	·	
2	·			
3				
4				
5.	·			
5	0	= Total Cov	/er	Hydrophytic
5	0	= Total Cov	ver	Hydrophytic Vegetation Present? Yes V No
550% of total cover: 0.0	020% of	= Total Cov	/er . 0.0	Hydrophytic Vegetation Present? Yes <u>V</u> No

nches)	O day (1 d)	<u>^</u>	Redo		-1 2	Taur	R. I
	Color (moist)	%	2 5VP5/4	<u>%</u> <u>Typ</u>		I exture	Remarks
	101R4/3		2.51 K5/4			<u> </u>	
1-18	10YR5/4	80	2.5YR4/6	20 C	M	<u> </u>	
<u> </u>							
				. <u></u>			
				<u> </u>			
be: C=C	oncentration, D=De	epletion, RN	I=Reduced Matrix, M	S=Masked Sand	Grains.	² Location: P	L=Pore Lining, M=Matrix.
Iric Soli	Indicators:						ators for Problematic Hydric Solis
Histosol	(A1)		Dark Surface	e (S7)			cm Muck (A10) (MLRA 147)
	pipedon (A2)			elow Surface (Se	3) (IVILRA 147,	148) <u> </u>	
	ISUC (A3) on Sulfide (A1)			anace (59) (MLF ad Matrix (F2)	(A 147, 140)		(MILRA 147, 140)
Stratifie	d Lavers (A5)			eu Mainx (F2)			(MI RA 136 147)
2 cm Mi	uck (A10) (LRR N)			Surface (F6)			erv Shallow Dark Surface (TE12)
Deplete	d Below Dark Surfa	ace (A11)	Depleted Da	rk Surface (F7)			other (Explain in Remarks)
Thick D	ark Surface (A12)	()	Redox Depre	essions (F8)			
Sandy N	/lucky Mineral (S1)	(LRR N,	Iron-Mangan	ese Masses (F1	2) (LRR N,		
MLR	A 147, 148)		MLRA 13	6)			
Sandy C	Gleyed Matrix (S4)		Umbric Surfa	ace (F13) (MLR	A 136, 122)	³ Ind	icators of hydrophytic vegetation and
Sandy F	Redox (S5)		Piedmont Flo	oodplain Soils (F	19) (MLRA 1 4	8) we	tland hydrology must be present,
Stripped	Matrix (S6)		Red Parent I	Material (F21) (N	ILRA 127, 147	') un	less disturbed or problematic.
strictive	Layer (if observed	d):					
Туре:							
Depth (in	ches):					Hydric Soil	Present? Yes No V
						•	
narks:							
narks:							
narks:							
narks:							
narks:							
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Project/Site: Moncure-Pittsboro Road TCI 154 Acres	City/County: Chatham	Sar	npling Date: 01/10/2020
Applicant/Owner: TC&I Timber Company LLC		State: NC S	ampling Point: FDS-39M1-1
Investigator(s): S. Thebert, M. Gilbert	Section, Township, Range:		
Landform (hillslope, terrace, etc.): drainage way	Local relief (concave, convex, non	_{e):} concave	Slope (%): <u>1</u>
Subregion (LRR or MLRA): P, 136 Lat: 35.63066	6807 Long: -79.	0819614	Datum: NAD 83
Soil Map Unit Name: <u>Mayoden gravelly sandy loam, 10 to</u>	15 percent slopes	NWI classification	: Upland
Are climatic / hydrologic conditions on the site typical for this time o	of year? Yes 🚺 No 🦲 (I	lf no, explain in Rema	rks.)
Are Vegetation Soil, or Hydrology significa	ntly disturbed? Are "Normal	Circumstances" prese	nt? Yes 🖌 No 📃
Are Vegetation, Soil, or Hydrology naturally	v problematic? (If needed, ex	xplain any answers in	Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes No Yes No Yes No	Is the Sampled Area within a Wetland?	Yes No
Remarks:			
Point taken in a drainage way.			

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)	✓ Drainage Patterns (B10)
Saturation (A3) Oxidized Rhizospheres on Living F	Roots (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	ils (C6) Crayfish Burrows (C8)
Drift Deposits (B3) Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)	✓ Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
✓ Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No ✓ Depth (inches): n/a	
Water Table Present? Yes 🖌 No 💭 Depth (inches): 0	
Saturation Present? Yes 🖌 No 💭 Depth (inches): 0	Wetland Hydrology Present? Yes Ves No
Saturation Present? Yes Yes Depth (inches): 0	Wetland Hydrology Present? Yes <u>V</u> No <u>No</u>
Saturation Present? Yes ✓ No Depth (inches): 0 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	Wetland Hydrology Present? Yes No
Saturation Present? Yes ✓ No Depth (inches): 0 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes <u>V</u> No <u>No</u>
Saturation Present? Yes ✓ No Depth (inches): 0 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes <u>V</u> No <u>No</u> ions), if available:
Saturation Present? Yes ✓ No Depth (inches): 0 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes <u>V</u> No <u></u> ions), if available:
Saturation Present? Yes ✓ No Depth (inches): 0 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes <u>V</u> No <u></u> ions), if available:
Saturation Present? Yes ✓ No Depth (inches): 0 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes <u>V</u> No <u></u> ions), if available:
Saturation Present? Yes ✓ No Depth (inches): 0 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes <u>V</u> No <u></u> ions), if available:
Saturation Present? Yes ✓ No Depth (inches): 0 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes <u>V</u> No <u></u> ions), if available:
Saturation Present? Yes ✓ No Depth (inches): 0 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes <u>V</u> No <u></u> ions), if available:
Saturation Present? Yes ✓ No Depth (inches): 0 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes <u>V</u> No <u></u> ions), if available:
Saturation Present? Yes V No Depth (inches): 0 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes <u>V</u> No <u></u> ions), if available:
Saturation Present? Yes V No Depth (inches): 0 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes <u>V</u> No <u></u> ions), if available:

Sampling Point: FDS-39M1-1

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
<u>Tree Stratum</u> (Plot size: <u>30 Teet</u>) 1. <u>N/A</u>	<u>% Cover</u>	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:	(A)
2				Total Number of Dominant	
3				Species Across All Strata:	(B)
4				Deveent of Deminent Creation	
5				That Are OBL, FACW, or FAC: 0.0%	(A/B)
0	0	- Total Cov		Prevalence Index worksheet:	
0.0	<u> </u>			Total % Cover of: Multiply by:	
50% of total cover: 0.0	20% of	total cover:	0.0	OBL species <u>0</u> x 1 = <u>0</u>	
Sapling Stratum (Plot size: 15 leel)				FACW species 0 x 2 = 0	_
1. <u>IN/A</u>	·			FAC species $0 x 3 = 0$	_
2				FACU species $0 x 4 = 0$	
3				UPL species 0 $x_5 = 0$	_
4				Column Totals: 0 (A) 0	(B)
5					_ (=)
6	·			Prevalence Index = B/A =	_
	0 :	= Total Cove	er	Hydrophytic Vegetation Indicators:	
50% of total cover: 0.0	20% of	total cover:	0.0	1 - Rapid Test for Hydrophytic Vegetation	
Shrub Stratum (Plot size: 15 feet)		·····		2 - Dominance Test is >50%	
1 N/A				□ 3 - Prevalence Index is $\leq 3.0^{1}$	
2				4 - Morphological Adaptations ¹ (Provide supp	ortina
2				data in Remarks or on a separate sheet)	0
3	·			Problematic Hydrophytic Vegetation ¹ (Explain	n)
4					
5				¹ Indicators of hydric soil and wetland hydrology m	ust
0	0		·	be present, unless disturbed or problematic.	
	<u> </u>	= I otal Cove	er	Definitions of Five Vegetation Strata:	
50% of total cover: 0.0	20% of	total cover:	0.0	Tree – Woody plants, excluding woody vines.	
Herb Stratum (Plot size: <u>5 feet</u>) 1. N/A				approximately 20 ft (6 m) or more in height and 3 (7.6 cm) or larger in diameter at breast height (DB	in. 8H).
2				Sapling – Woody plants, excluding woody vines	
3				approximately 20 ft (6 m) or more in height and lead than 3 in. (7.6 cm) DBH.	SS
T				Shruh Weedy plants evoluting weedy vines	
5 6	·			approximately 3 to 20 ft (1 to 6 m) in height.	
7				Herb – All herbaceous (non-woody) plants, includ	ling
8				herbaceous vines, regardless of size, and woody	
9.				plants, except woody vines, less than approximate	ely 3
10.					
11.				Woody vine – All woody vines, regardless of heig	ght.
	0	= Total Cove	er		
	000/		0.0		
50% of total cover: 0.0	20% of	total cover:	0.0		
Woody Vine Stratum (Plot size: <u>50 leet</u>)					
1.11/7					
2					
3					
4	·				
5				Hydrophytic	
	0	= Total Cove	er	Vegetation	
50% of total cover: 0.0	20% of	total cover:	0.0	Present? Yes <u>No</u> Vo	
Romarka: (Include photo numbero horo er en e congrato d	shoot)				

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

Vegetation was not observed during the site inspection and given the channel-like characteristics it does not appear vegetation would be present year-round.

SOIL	
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Sampling Point: FDS-39M1-1

Profile Desc	ription: (Describe	to the dep	oth needed to docun	nent the	indicator	or confirm	n the absence of	indicators.)
Depth	Matrix		Redo	x Feature	S			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-7	10YR5/2	95	5YR4/6	5	С	Μ	SL	
7-13	10YR5/2	90	5YR4/6	5	С	Μ	SL	
			10YR5/6	5	С	М		
13-18	10YR6/2	80	5YR4/6	20	С	М	SCL	
	101110/2		01111/0			· <u>···</u>		
						- <u> </u>		
						<u> </u>		
						·		
		lation PM	- Roducod Motrix, MS	Mookor	d Sand Cr		² Location: DL -	Doro Lipipa M-Motrix
Hydric Soil	Indicators:	Dietion, Rivi	=Reduced Matrix, Mo	s=iviasked	a Sand Gr	ains.		rs for Problematic Hydric Soils ³ :
	(A1)			(\$7)				n Muck (A10) (MI RA 147)
	pipedon (A2)		Polyvalue Be	low Surfa	ce (S8) (I	/LRA 147.	148) Coa	st Prairie Redox (A16)
Black Hi	stic (A3)		Thin Dark Su	rface (S9) (MLRA [·]	147. 148)	(1	NLRA 147. 148)
Hydroge	n Sulfide (A4)		Loamy Gleye	d Matrix ((F2)	, -,	D Piec	Imont Floodplain Soils (F19)
Stratified	d Layers (A5)		✓ Depleted Mat	rix (F3)			()	MLRA 136, 147)
🔲 2 cm Mu	ick (A10) (LRR N)		Redox Dark S	Surface (F	-6)		🔲 Very	/ Shallow Dark Surface (TF12)
Depleted	d Below Dark Surfac	e (A11)	Depleted Dar	k Surface	e (F7)		Othe	er (Explain in Remarks)
	ark Surface (A12)		Redox Depre	ssions (F	8)			
Sandy N	lucky Mineral (S1) (LRR N,	Iron-Mangane	ese Mass	es (F12) (LRR N,		
	A 147, 148)) 00 (E12) /		06 400)	³ Indiaa	tors of hydrophytic vegetation and
Sandy B	Redox (S5)			odolain S	(IVILKA IS	ΜΙ RΔ 14	Inuica I 8) wetla	nd hydrology must be present
	Matrix (S6)		Red Parent M	laterial (F		A 127. 147	7) unles	s disturbed or problematic.
Restrictive	Layer (if observed)	:		(, (,		
Type:								
Depth (in	ches):						Hydric Soil Pr	resent? Yes 🔽 No 🛄
Remarks:							_	

Project/Site: Moncure-Pittsboro Road TCI 154 Acres	City/County: Chatham	Samplin	g Date: 01/10/2020
Applicant/Owner: TC&I Timber Company LLC		State: NC Samp	ling Point: FDS-39M1-2
Investigator(s): S. Thebert, M. Gilbert	_ Section, Township, Range:		-
Landform (hillslope, terrace, etc.): drainage way	ocal relief (concave, convex, non	_{e):} concave	Slope (%): <u>1</u>
Subregion (LRR or MLRA): P, 136 Lat: 35.630788	324 Long: -79.	0818971	Datum: NAD 83
Soil Map Unit Name: Mayoden gravelly sandy loam, 10 to 1	5 percent slopes	NWI classification: U	pland
Are climatic / hydrologic conditions on the site typical for this time of y	/ear? Yes 🚺 No 📃 (If no, explain in Remarks.)	
Are Vegetation Soil, or Hydrology significant	ly disturbed? Are "Normal	Circumstances" present?	Yes No
Are Vegetation, Soil, or Hydrology naturally p	roblematic? (If needed, ex	xplain any answers in Rem	narks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes No Yes No Yes No	Is the Sampled Area within a Wetland?	Yes No
Remarks:			
Point taken in a drainage way th	nat was previously a dirt road	Ι.	

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)	✓ 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 Sc	oils (C6) Crayfish Burrows (C8)
Drift Deposits (B3)	Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)		Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)		Shallow Aquitard (D3)
✓ Water-Stained Leaves (B9)		Microtopographic Relief (D4)
Aquatic Fauna (B13)		FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes No	✓ Depth (inches): n/a	
Water Table Present? Yes 🗹 No	Depth (inches): <u>4</u>	
Saturation Present? Yes 🖌 No	Depth (inches): 0	Wetland Hydrology Present? Yes Ves No
(Includes capillary fringe) Describe Recorded Data (stream dauge, monitor	ring well aerial photos, previous inspec	tions) if available:
Pemarks:		
Remarks.		

Sampling Point: FDS-39M1-2

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 feet)	% Cover	Species?	Status	Number of Dominant Species
_{1.} Pinus taeda	65	YES	FAC	That Are OBL, FACW, or FAC: 5 (A)
2				
2		·	· ·	Total Number of Dominant
3	·	·	·	Species Across All Strata: O (B)
4				Porcent of Dominant Species
5				That Are OBL FACW or FAC: 62.5% (A/B)
6.				
	65	- Total Ca		Prevalence Index worksheet:
		= 101a1 000		Total % Cover of: Multiply by:
50% of total cover: 32.5	20% of	total cover	<u>. 13.0</u>	OBL species 0 x1 = 0
Sapling Stratum (Plot size: 15 feet				
1 Pinus taeda	20	YES	FAC	FACW species 0 $x 2 = 10$
2 llex opaca	8	YES	FACU	FAC species $\frac{173}{2}$ x 3 = $\frac{519}{2}$
2. Acor rubrum	0	VEQ	EAC	FACU species <u>61</u> x 4 = <u>244</u>
	0	TES	FAC	UPL species $0 x 5 = 0$
4				Column Totals: 242 (A) 779 (B)
5				
6.				Prevalence index = $B/A = 3.22$
	36	- Total Cav		Hydrophytic Vegetation Indicators
50% of total cover: <u>18.0</u>	20% of	total cover	<u>: 7.2</u>	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 15 feet)				✓ 2 - Dominance Test is >50%
1 Liquidambar styraciflua	30	YES	FAC	3 - Prevalence Index is ≤3.0 ¹
	10	VES	FACU	- 4 - Morphological Adaptations ¹ (Provide supporting
	0			data in Remarks or on a separate sheet)
3. Quercus rubra	0	NU	FACU	Problematic Hydrophytic Vegetation ¹ (Evaluation)
4		·		
5.				
6				Indicators of hydric soil and wetland hydrology must
	48	Tatal Car		be present, unless disturbed or problematic.
	-0	= 1 otal Cov	/er	Definitions of Five Vegetation Strata:
50% of total cover: <u>24.0</u>	20% of	total cover	<u>:</u> 9.6	Tree March risets such die such winse
Herb Stratum (Plot size: 5 feet				approximately 20 ft (6 m) or more in height and 3 in
Arthraxon hispidus	30	YES	FAC	(7.6 cm) or larger in diameter at breast height (DBH).
	20		EACU	(
	20		TA00	Sapling – Woody plants, excluding woody vines,
3. Lonicera japonica	15	NO	FACU	approximately 20 ft (6 m) or more in height and less
4. Liquidambar styraciflua	15	NO	FAC	than 3 ln. (7.6 cm) DBH.
5. Juncus effusus	8	NO	FACW	Shrub – Woody plants, excluding woody vines.
6 Pinus taeda	5	NO	FAC	approximately 3 to 20 ft (1 to 6 m) in height.
-		110		
7		·		Herb – All herbaceous (non-woody) plants, including
8				nerbaceous vines, regardless of size, and woody
9		·		ft (1 m) in height.
10.				
11				Woody vine – All woody vines, regardless of height.
	03		·	
	90	= Total Cov	/er	
50% of total cover: 46.5	20% of	total cover	18.6 ⁻	
Woody Vine Stratum (Plot size: 30 feet)				
∧ N/A				
1.11/7		·		
2				
3				
4.				
5			·	
J		·	·	Hydrophytic
	0	T		
	0	= Total Cov	/er	Vegetation
50% of total cover: 0.0	0 20% of	= Total Cov total cover	/er <u>:</u> 0.0	Vegetation Present? Yes <u>V</u> No
50% of total cover: 0.0 Remarks: (Include photo numbers here or on a separate s	0 20% of	= Total Cov	/er <u>:</u> 0.0	Vegetation Present? Yes <u>V</u> No

ſ

Profile Desc	ription: (Describe	e to the de	pth needed to docu	ment the I	naicator	or comm	n the absend	e of indicators.)
Depth	Matrix		Red	ox Feature	S			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-12	10YR6/3	75	5YR4/6	25	С	М	SL	
12-18	10YR6/3	70	5YR4/6	30	С	М	SCL	
<u> </u>				·				
<u> </u>								
								_
<u> </u>			·	·				
¹ Type: C=C	oncentration, D=De	pletion, RM	A=Reduced Matrix, M	IS=Masker	Sand G	ains.	² Location:	PI =Pore Lining, M=Matrix
Hvdric Soil	Indicators:						Indi	cators for Problematic Hydric Soils ³ :
Histosol	(A1)			0 (97)				2 cm Muck (A10) (MI PA 147)
	(A2)			elow Surfa	co (S8) (I		148)	Coast Prairie Redox (A16)
	stic $(A2)$			urfaco (SQ)		1/7 1/0	, 140)	(MI DA 147 149)
	SIIC (A3)			unace (39)		147, 140)		(IVIERA 147, 146) Diadmont Eleadalain Saila (E10)
	A = 0			eu mainx ([2]			(MI DA 126 147)
				Surface (F	-C)			(WILKA 130, 147)
	d Bolow Dark Surfa	co (A11)		Suilace (F	(E7)		님	Other (Explain in Remarks)
	a Delow Dark Sulla	Ce (ATT)		ark Suriace	(F7) Q)			
	And Sunace (A12)				0) 00 (E12) /			
		(LKK N,			es (F12)	LKK N,		
	147, 140			סכ <i>ו</i> ממס (ד12) (06 400)	31.	diasters of hydrophytic vegetation and
						(MIDA 4	10) II	idicators of hydrophytic vegetation and
Sandy F	(SS)			Motorial (F	OIIS (F19)	(WILKA 1	48) V 7) ·	vetiand hydrology must be present,
	Matrix (56)	\.	Red Parent	Material (F	21) (IVILF	A 127, 14	/) (iniess disturbed or problematic.
T	Layer (II observed).						
Type:								
Depth (in	ches):						Hydric Sc	oil Present? Yes No
Remarks: S	oile are heavily	compact	ed from old road					
	Sils are neavily	compaci						
1								

Project/Site: Moncure-Pittsboro Road TCI 154 Acres	_ City/County: Chatham	Samplin	g Date: 01/10/2020
Applicant/Owner: TC&I Timber Company LLC		State: NC Samp	ling Point: FDS-39M2-2
Investigator(s): S. Thebert, M. Gilbert	Section, Township, Range:		
Landform (hillslope, terrace, etc.): drawl	Local relief (concave, convex, non	_{e):} concave	Slope (%): <u>1</u>
Subregion (LRR or MLRA): P, 136 Lat: 35.63639	916 Long: -79.	08491741	Datum: NAD 83
Soil Map Unit Name: <u>Mayoden gravelly sandy loam</u> , 10 to	15 percent slopes	NWI classification: U	pland
Are climatic / hydrologic conditions on the site typical for this time of	year? Yes 🖌 No 🦲 (I	If no, explain in Remarks.)	
Are Vegetation Soil, or Hydrology significar	tly disturbed? Are "Normal	Circumstances" present?	Yes 🖌 No 📃
Are Vegetation, Soil, or Hydrology naturally	problematic? (If needed, et	xplain any answers in Rem	narks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes No Yes No ✓ Yes No ✓	Is the Sampled Area within a Wetland?	Yes No
Remarks:			
Point taken in a drawl.			

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)	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 So	bils (C6) Crayfish Burrows (C8)
Drift Deposits (B3)	Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)		Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)		Shallow Aquitard (D3)
Water-Stained Leaves (B9)		Microtopographic Relief (D4)
Aquatic Fauna (B13)		FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes No	✓ Depth (inches): n/a	
Water Table Present? Yes No	✓ Depth (inches): >18	
Saturation Present? Yes No _	✓ Depth (inches): >18	Wetland Hydrology Present? Yes 🖌 No
(Includes capillary fringe)	ring well aerial photos, previous inspec	tions) if available:
Describe Recorded Data (stream gauge, mornio		
Pomarka		
Remarks.		

Sampling Point: FDS-39M2-2

00.6	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 feet)	% Cover	Species?	Status	Number of Dominant Species
_{1.} Pinus taeda	70	YES	FAC	That Are OBL, FACW, or FAC: 7 (A)
2.				
3				Total Number of Dominant
				Species Across All Strata: _/ (B)
4	·			Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100.0% (A/B)
6				
	70	= Total Cov	er	Prevalence Index worksheet:
500 (1.1.) 35.0			1/ 0	Total % Cover of: Multiply by:
50% of total cover: 55.0	20% of	total cover	14.0	OBL species $0 x 1 = 0$
Sapling Stratum (Plot size: 15 Teet)				FACW species 8 $x_{2} = 16$
_{1.} Pinus taeda	15	YES	FAC	EAC species 126 x $3-378$
2.				$\frac{120}{5} \times \frac{320}{20}$
3				FACU species 5 $x 4 = 20$
			·	UPL species $0 x 5 = 0$
4				Column Totals: <u>139</u> (A) <u>414</u> (B)
5			<u> </u>	
6				Prevalence Index = $B/A = \frac{2.98}{1000}$
	15	= Total Cov	er	Hydrophytic Vegetation Indicators:
75			30	1 - Rapid Test for Hydrophytic Vegetation
50% of total cover: <u>7.5</u>	20% of	total cover	5.0	
Shrub Stratum (Plot size: <u>15 feet</u>)				2 - Dominance Test Is >50%
1. Pinus taeda	15	YES	FAC	3 - Prevalence Index is ≤3.0
2. Acer rubrum	8	YES	FAC	4 - Morphological Adaptations ¹ (Provide supporting
² Magnolia virginiana	8	YES	FACW	data in Remarks or on a separate sheet)
Uley opaca	5		FACIL	Problematic Hydrophytic Vegetation ¹ (Explain)
	<u> </u>		TA00	
5. Quercus nigra	3	NO	FAC	¹ Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
	39	= Total Cov	er	Definitions of Five Vegetation Strata:
10 5 million 10 5	000/ - (78	
50% of total cover: <u>19.5</u>	20% of	total cover	7.8	Tree – Woody plants, excluding woody vines,
50% of total cover: <u>19.5</u> Herb Stratum (Plot size: <u>5 feet</u>)	20% of	total cover	7.8	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
50% of total cover: <u>19.5</u> <u>Herb Stratum</u> (Plot size: <u>5 feet</u>) 1. Pinus taeda	20% of	total cover	7.8 FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
50% of total cover: <u>19.5</u> <u>Herb Stratum</u> (Plot size: <u>5 feet</u>) 1. <u>Pinus taeda</u> 2. Arthraxon hispidus	20% of 	total cover <u>YES</u> YES	7.8 FAC FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
50% of total cover: <u>19.5</u> <u>Herb Stratum</u> (Plot size: <u>5 feet</u>) <u>1. Pinus taeda</u> <u>2. Arthraxon hispidus</u>	20% of 10 5	total cover YES YES	FAC FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
50% of total cover: <u>19.5</u> <u>Herb Stratum</u> (Plot size: <u>5 feet</u>) <u>1. Pinus taeda</u> <u>2. Arthraxon hispidus</u> <u>3.</u> <u>4</u>	20% of 10 5	YES YES	FAC FAC	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
50% of total cover: <u>19.5</u> <u>Herb Stratum</u> (Plot size: <u>5 feet</u>) <u>1. Pinus taeda</u> <u>2. Arthraxon hispidus</u> 3 4	20% of 5	YES YES	7.8 FAC FAC	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
50% of total cover: <u>19.5</u> <u>Herb Stratum</u> (Plot size: <u>5 feet</u>) <u>1. Pinus taeda</u> <u>2. Arthraxon hispidus</u> 3. <u>4.</u> 5.	20% of 	YES YES	FAC FAC FAC	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 20 at (4 to 2 m) is briefly.
50% of total cover: <u>19.5</u> <u>Herb Stratum</u> (Plot size: <u>5 feet</u>) <u>1. Pinus taeda</u> <u>2. Arthraxon hispidus</u> 3. <u>4.</u> 5. <u>6.</u>	20% of 	YES YES	FAC FAC FAC	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
50% of total cover: <u>19.5</u> <u>Herb Stratum</u> (Plot size: <u>5 feet</u>) <u>1. Pinus taeda</u> <u>2. Arthraxon hispidus</u> <u>3.</u> <u>4.</u> <u>5.</u> <u>6.</u> <u>7.</u>	20% of 	YES YES	FAC FAC FAC	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including
50% of total cover: <u>19.5</u> <u>Herb Stratum</u> (Plot size: <u>5 feet</u>) <u>1. Pinus taeda 2. Arthraxon hispidus 3</u>	20% of 10 5 	YES YES	FAC FAC FAC	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
50% of total cover: <u>19.5</u> <u>Herb Stratum</u> (Plot size: <u>5 feet</u>) <u>1. Pinus taeda</u> <u>2. Arthraxon hispidus</u> <u>3.</u> <u>4.</u> <u>5.</u> <u>6.</u> <u>7.</u> <u>8.</u> <u>9.</u>	20% of 10 5 	YES YES	FAC FAC FAC	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3
50% of total cover: <u>19.5</u> <u>Herb Stratum</u> (Plot size: <u>5 feet</u>) <u>1. Pinus taeda 2. Arthraxon hispidus 3</u>	20% of 	YES YES	FAC FAC FAC	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
50% of total cover: <u>19.5</u> Herb Stratum (Plot size: <u>5 feet</u>) 1. Pinus taeda 2. Arthraxon hispidus 3. 4. 5. 6. 7. 8. 9. 10.	20% of 	YES YES	FAC FAC FAC	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vines – All woody vines regardless of height
50% of total cover: <u>19.5</u> Herb Stratum (Plot size: <u>5 feet</u>) 1. Pinus taeda 2. Arthraxon hispidus 3. 4. 5. 6. 7. 8. 9. 10. 11.	20% of <u>10</u> <u>5</u> 	YES YES	FAC FAC	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
50% of total cover: 19.5 Herb Stratum (Plot size: 5 feet) 1. Pinus taeda 2. Arthraxon hispidus 3	20% of 15	YES YES	FAC FAC FAC	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
50% of total cover: 19.5 Herb Stratum (Plot size: 5 feet) 1. Pinus taeda) 2. Arthraxon hispidus	20% of 10 5 15 	YES YES	FAC FAC FAC	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
50% of total cover: 19.5 Herb Stratum (Plot size: 5 feet) 1. Pinus taeda 2. Arthraxon hispidus 3. 4. 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 7.5 20 feet	20% of <u>10</u> 5 <u>15</u> 20% of	YES YES TES Total Cover	FAC FAC FAC	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
50% of total cover: 19.5 Herb Stratum (Plot size: 5 feet) 1. Pinus taeda) 2. Arthraxon hispidus	20% of 10 5 	YES YES	FAC FAC FAC er 3.0	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
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50% of total cover: 19.5 Herb Stratum (Plot size: 5 feet) 1. Pinus taeda) 2. Arthraxon hispidus	20% of _	Total cover	FAC FAC FAC	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
50% of total cover: 19.5 Herb Stratum (Plot size: 5 feet) 1. Pinus taeda) 2. Arthraxon hispidus	20% of _	Total cover	FAC FAC FAC	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
50% of total cover: 19.5 Herb Stratum (Plot size: 5 feet) 1. Pinus taeda	20% of 10 5 15 20% of 	Total cover:	FAC FAC FAC er 3.0	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
50% of total cover: 19.5 Herb Stratum (Plot size: 5 feet) 1. Pinus taeda) 2. Arthraxon hispidus	20% of 10 5 15 20% of 	Total cover:	T.8 FAC FAC Image: state	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
50% of total cover: 19.5 Herb Stratum (Plot size: 5 feet) 1. Pinus taeda 2. Arthraxon hispidus 3. 4. 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 7.5 Woody Vine Stratum (Plot size: 30 feet) 1. N/A 2. 3. 4. 5.	20% of 10 5 15 20% of 	Total cover:	FAC FAC FAC Gamma	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height. Hydrophytic
50% of total cover: 19.5 Herb Stratum (Plot size: 5 feet) 1. Pinus taeda 2. Arthraxon hispidus 3. 4. 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 7.5 Woody Vine Stratum (Plot size: 30 feet) 1. N/A 2. 3. 4. 5.	20% of 10 5 15 20% of 0 	YES YES YES	FAC FAC FAC Gamma	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height. Hydrophytic Vegetation
50% of total cover: 19.5 Herb Stratum (Plot size: 5 feet) 1. Pinus taeda 2. Arthraxon hispidus 3. 4. 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 7.5 Woody Vine Stratum (Plot size: 30 feet) 1. N/A 2. 3. 4. 5.	20% of <u>10</u> 5 <u>15</u> 20% of <u>0</u> 20% of	Total cover	FAC FAC FAC Galarian Image: State of the state	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height. Hydrophytic Vegetation Present? Yes No
50% of total cover: 19.5 Herb Stratum (Plot size: 5 feet) 1. Pinus taeda 2. Arthraxon hispidus 3. 4. 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 7.5 Woody Vine Stratum (Plot size: 30 feet) 1. N/A 2. 3. 4. 5. 50% of total cover: 7.5 So% of total cover: 0.0 Bemarke: (Include phote purphers here even a context)	20% of <u>10</u> 5 <u>15</u> 20% of 0 20% of	Total cover	FAC FAC FAC Galarian Galarian Galarian Galarian Galarian Galarian	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height. Hydrophytic Vegetation Present? Yes Yes No

(inches)	Matrix	0/	Redo	<u>x Features</u>	<u>S</u>	12	Territore	Dementer
(inches)	LOIOF (MOIST)	100	Color (moist)	%	I ype	LOC	l exture	Remarks
0-0	10113/3	100						
5-18	10YR5/3	80	5YR4/4	20	С	M	CL	
						·		
						·		
						·	·	
						·		
						·		
17				0. Maalaad			² l	- Deve Lister M. Mateix
Type: C=Co	oncentration, D=Dep	pletion, RIV	I=Reduced Matrix, M	S=Masked	I Sand Gr	ains.	Location: P	L=Pore Lining, M=Matrix.
	(A1)			(67)				are Muck (A10) (MI DA 117)
Histic Fr	(AT) Dipedon (A2)			elow Surfa	ce (S8) (N	/I RA 147	148)	coast Prairie Redox (A16)
Black Hi	stic (A3)		Thin Dark Su	urface (S9)) (MLRA [·]	47. 148)	ц і , Ц	(MLRA 147, 148)
Hydroge	en Sulfide (A4)		Loamy Gleye	ed Matrix (F2)	,,	🔲 Р	iedmont Floodplain Soils (F19)
Stratified	d Layers (A5)		Depleted Ma	trix (F3)				(MLRA 136, 147)
🔲 2 cm Mu	ick (A10) (LRR N)		Redox Dark	Surface (F	6)		\Box v	ery Shallow Dark Surface (TF12)
Depleted	d Below Dark Surfac	e (A11)	Depleted Da	rk Surface	(F7)			other (Explain in Remarks)
	ark Surface (A12)		Redox Depre	essions (F	8) (F 40) (
	1ucky Mineral (51) (LKK N,			es (F12) (LKK N,		
	Heved Matrix (S4)			oo) ace (F13) (MIRA 13	6, 122)	³ Ind	icators of hydrophytic vegetation and
Sandy R	Redox (S5)		Piedmont Flo	bodplain S	oils (F19)	(MLRA 14	18) we	tland hydrology must be present.
= ′	()		=			× 127 1/7	7)	loss disturbed or problematic
Stripped	Matrix (S6)		Red Parent I	viateriai (F		A 121, 141	n) un	less disturbed of problematic.
Stripped Restrictive I	Matrix (S6) L ayer (if observed)	:	Red Parent I	viateriai (F	21) (WLR	~ 127, 14) un	
Stripped Restrictive I Type:	Matrix (S6) L ayer (if observed)	:	Red Parent I	Viateriai (F	21) (NILR	A 127, 147		
Stripped Restrictive I Type: Depth (ind	Matrix (S6) Layer (if observed) ches):	:	Red Parent I	viateriai (F	21) (MLR	<u> 121, 141</u>	Hydric Soil	Present? Yes No
Stripped Restrictive I Type: Depth (inc Remarks:	Matrix (S6) Layer (if observed) 	:	Red Parent I	viateriai (F	21) (MLR	<u> </u>	Hydric Soil	Present? Yes No
Stripped Restrictive I Type: Depth (inc Remarks:	Matrix (S6) Layer (if observed) ches):	:	Red Parent I		21) (MLR	<u> </u>	Hydric Soil	Present? Yes No
Stripped Restrictive I Type: Depth (ind Remarks:	Matrix (S6) Layer (if observed) ches):	:	Red Parent I	viateriai (F	21) (MLR	<u> </u>	Hydric Soil	Present? Yes No
Stripped Restrictive I Type: Depth (ind Remarks:	Matrix (S6) Layer (if observed) 	:	Red Parent I	Viateriai (F	21) (MLR	<u> </u>	Hydric Soil	Present? Yes No
Stripped Restrictive I Type: Depth (ind Remarks:	Matrix (S6) Layer (if observed) ches):	:	Red Parent I		21) (MLR	<u> </u>	Hydric Soil	Present? Yes No
Stripped Restrictive I Type: Depth (ind Remarks:	Matrix (S6) Layer (if observed) ches):	:	Red Parent I				Hydric Soil	Present? Yes No
Stripped Restrictive I Type: Depth (ind Remarks:	Matrix (S6) Layer (if observed) ches):	:	Red Parent I			<u> </u>	Hydric Soil	Present? Yes No
Stripped Restrictive I Type: Depth (ind Remarks:	Matrix (S6) Layer (if observed) ches):	:	Red Parent I			<u> </u>	Hydric Soil	Present? Yes No
Stripped Restrictive I Type: Depth (ind Remarks:	Matrix (S6) Layer (if observed) ches):	:	Red Parent I			<u> </u>	Hydric Soil	Present? Yes No
Stripped Restrictive I Type: Depth (ind Remarks:	Matrix (S6) Layer (if observed) ches):	:	Red Parent I				Hydric Soil	Present? Yes No
Stripped Restrictive I Type: Depth (ind Remarks:	Matrix (S6) Layer (if observed) ches):		Red Parent I			<u> </u>	Hydric Soil	Present? Yes No
Stripped Restrictive I Type: Depth (ind Remarks:	Matrix (S6) Layer (if observed) ches):	:	Red Parent I			<u> </u>	Hydric Soil	Present? Yes No
Stripped Restrictive I Type: Depth (ind Remarks:	Matrix (S6) Layer (if observed) ches):	:	Red Parent I			<u> </u>	Hydric Soil	Present? Yes No
Stripped Restrictive I Type: Depth (ind Remarks:	Matrix (S6) Layer (if observed) ches):	:	Red Parent I				Hydric Soil	Present? Yes No
Stripped Restrictive I Type: Depth (ind Remarks:	Matrix (S6) Layer (if observed) ches):	: 	Red Parent I			<u> </u>	Hydric Soil	Present? Yes No
Stripped Restrictive I Type: Depth (inc Remarks:	Matrix (S6) Layer (if observed) ches):		Red Parent I				Hydric Soil	Present? Yes No
Stripped Restrictive I Type: Depth (inu Remarks:	Matrix (S6) Layer (if observed)	: 	Red Parent I			<u> </u>	Hydric Soil	Present? Yes No
Stripped Restrictive I Type: Depth (ini Remarks:	Matrix (S6) Layer (if observed) ches):	:	Red Parent I				Hydric Soil	Present? Yes No
Stripped Restrictive I Type: Depth (inu Remarks:	Matrix (S6) Layer (if observed) ches):		Red Parent I			<u> </u>	Hydric Soil	Present? Yes No
Stripped Restrictive I Type: Depth (inu Remarks:	Matrix (S6) Layer (if observed) ches):		Red Parent I				Hydric Soil	Present? Yes No
Stripped Restrictive I Type: Depth (inu Remarks:	Matrix (S6) Layer (if observed) ches):		Red Parent I				Hydric Soil	Present? Yes No

Project/Site: Moncure-Pittsboro Road TCI 154 Acres	_ City/County: Chatham		Sampling Date: 01/10/2020
Applicant/Owner: TC&I Timber Company LLC		State: NC	Sampling Point: FDS-39N2-
Investigator(s): S. Thebert, M. Gilbert	_ Section, Township, Range:		
Landform (hillslope, terrace, etc.): depression	_ocal relief (concave, convex,	none): concave	Slope (%): <u>1</u>
Subregion (LRR or MLRA): P, 136 Lat: 35.636798	873 Long:	79.08506318	Datum: NAD 83
Soil Map Unit Name: <u>Mayoden fine sandy loam, 6 to 10 pe</u>	rcent slopes	NWI classifica	ation: Upland
Are climatic / hydrologic conditions on the site typical for this time of	year? Yes 🖌 No] (If no, explain in Re	emarks.)
Are Vegetation Soil, or Hydrology significant	tly disturbed? Are "Norr	mal Circumstances" pr	resent? Yes 🗹 No 📃
Are Vegetation, Soil, or Hydrology naturally r	problematic? (If needed	d, explain any answer	s in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes / No Yes / No Yes / No	Is the Sampled Area within a Wetland?	Yes 🖌 No 🦳
Remarks:			
Point taken in a depression.			

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)	Drainage Patterns (B10)
Saturation (A3) Oxidized Rhizospheres on Living F	Roots (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	ils (C6) Crayfish Burrows (C8)
Drift Deposits (B3) Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No 🗸 Depth (inches): n/a	
Water Table Present? Vec / No Denth (inches): 5	
water rable Present? Yes <u>v</u> No <u>bepth (incres)</u> .	
Saturation Present? Yes No Depth (inches): 0 0	Wetland Hydrology Present? Yes Vo
Saturation Present? Yes V No Depth (inches): 0 (includes capillary fringe)	Wetland Hydrology Present? Yes No
Saturation Present? Yes V No Depth (inches): 0 (includes capillary fringe) No Depth (inches): 0 Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect)	Wetland Hydrology Present? Yes No
Water Fable Present? Fes Image: The present? Fes Image: The present? The present ?	Wetland Hydrology Present? Yes No
Water Fable Present? Fes Image: The second seco	Wetland Hydrology Present? Yes No No
Water Fable Present? Fes Image: The second seco	Wetland Hydrology Present? Yes No No
Water Fable Present? Yes Ito Depth (inches): 0 Saturation Present? Yes Ito Depth (inches): 0 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes No No
Water Fable Present? Yes Ito Depth (inches): 0 Saturation Present? Yes Ito Depth (inches): 0 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes No No
Water Fable Present? Yes Ito Depth (includes). 0 Saturation Present? Yes Ito Depth (includes). 0 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes No No
Water Fable Present? Yes Ito Depth (inches): 0 Saturation Present? Yes Ito Depth (inches): 0 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes No No
Water Fable Present? Yes Ito Depth (inches): 0 Saturation Present? Yes No Depth (inches): 0 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes No No
Water Fable Present? Yes Ito Depth (inches): 0 Saturation Present? Yes No Depth (inches): 0 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes No No
Water Table Present? Yes Ito Depth (inches): 0 Saturation Present? Yes No Depth (inches): 0 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes No
Water Table Present? Yes Ito Depth (inches): 0 Saturation Present? Yes No Depth (inches): 0 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes No
Water Table Present? Yes Ito Depth (inches): 0 Saturation Present? Yes No Depth (inches): 0 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes No

Sampling Point: FDS-39N2-1

0.00	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 feet)	% Cover	Species?	Status	Number of Dominant Species
1. Pinus taeda	5	YES	FAC	That Are OBL, FACW, or FAC: <u>3</u> (A)
2.				
3				I otal Number of Dominant Species Across All Strate: 3 (P)
4				Species Across Air Strata. (b)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100.0% (A/B)
6				Development in development
	5	= Total Cov	/er	Prevalence Index worksheet:
E0% of total power: 2.5	200/ of	total aquar	.10	Total % Cover of: Multiply by:
50% of total cover. <u></u>	20% 0	lotal cover		OBL species $0 x_1 = 0$
Sapling Stratum (Plot size: 15 leet)				FACW species 15 $x_2 = 30$
1. <u>N/A</u>				FAC species $40 \times 3 = 120$
2				EACH encodes 0 $x = 0$
3.				$\begin{array}{c} x \neq \underline{=} \\ 0 \\ x \neq x = \\ 0 \\ x = \\$
4				UPL species $0 \times 5 = 0$
	·	·		Column Totals: <u>55</u> (A) <u>150</u> (B)
o		•		0.70
6				Prevalence Index = $B/A = 2.73$
	0	= Total Cov	/er	Hydrophytic Vegetation Indicators:
50% of total cover: 0.0	20% of	f total cover	.0.0	1 - Rapid Test for Hydrophytic Vegetation
Chruch Strature (Dist size: 15 feet	2070 01			$\sqrt{2}$ - Dominance Test is >50%
Shrub Stratum (Plot size: <u>15 leet</u>)				\mathbf{V} 2. Drevelence index is <2.0 ¹
1. <u>N/A</u>	·			$$ 3 - Prevalence index is ≤ 3.0
2				4 - Morphological Adaptations' (Provide supporting
3				
4				Problematic Hydrophytic Vegetation' (Explain)
5	·			¹ Indicators of hydric soil and wetland hydrology must
6	0	·		be present, unless disturbed or problematic.
	0	= Total Cov	/er	Definitions of Five Vegetation Strata:
50% of total cover: 0.0	20% of	f total cover	0.0	
Horb Stratum (Plot size: 5 feet			·	Tree – Woody plants, excluding woody vines,
Microstegium vimineum	35	VES	FAC	(7.6 cm) or larger in diameter at breast height (DBH)
	15			
	15	IES	FACW	Sapling – Woody plants, excluding woody vines,
3		<u> </u>		approximately 20 ft (6 m) or more in height and less
4				than 3 in. (7.6 cm) DBH.
5.				Shrub – Woody plants, excluding woody vines.
6				approximately 3 to 20 ft (1 to 6 m) in height.
0	·	·	·	
/	·	·		Herb – All herbaceous (non-woody) plants, including
8				plants, except woody vines, less than approximately 3
9				ft (1 m) in height.
10.				
11				Woody vine – All woody vines, regardless of height.
	50	Tatal Car		
			/er	
50% of total cover: 25.0	20% of	f total cover	<u>. 10.0</u>	
Woody Vine Stratum (Plot size: 30 feet)				
1 N/A				
··				
2		•		
3		•		
4				
5				Hydrophytic
	0	= Total Cov	/er	Vegetation
	000/ -/	total and	.00	Present? Yes Ves No
	∠∪% OI	total cover		
Remarks: (Include photo numbers here or on a separate s	sheet.)			

Profile Desc	cription: (Describe	e to the de	pth needed to docu	ment the	indicator	or confiri	n the absence of	indicators.)
Depth	Matrix		Redo	ox Feature	es Trans 1	1 2	Tautum	Deventer
(inches)		100	Color (moist)	%	Type	LOC		Remarks
0-2	101 K4/2	100			·	·	<u> </u>	
2-18	2.5Y5/2	85	7.5YR4/6	15	С	Μ		
					·			
					· <u> </u>			
					·			
	oncentration D-De	nletion RM	-Reduced Matrix M	S-Masko	d Sand Gr	aine	² Location: PL-	Pore Lining M-Matrix
Hvdric Soil	Indicators:			S=IVIASKE	u Sanu Gi	dil 15.		rs for Problematic Hydric Soils ³ :
Histosol	(A1)		Dark Surface	e (S7)				Muck (A10) (MI RA 147)
Histic E	pipedon (A2)		Polyvalue Be	elow Surfa	ace (S8) (I	/ILRA 147	, 148) 🔲 Coa	st Prairie Redox (A16)
Black H	istic (A3)		Thin Dark Su	urface (S9) (MLRA	147, 148)	(N	/LRA 147, 148)
Hydroge	en Sulfide (A4)		Loamy Gleye	ed Matrix	(F2)		Died	lmont Floodplain Soils (F19)
Stratifie	d Layers (A5)		Depleted Ma	atrix (F3)			(N	/LRA 136, 147)
	uck (A10) (LRR N) d Dalaus Dark Curfa	(////)	Redox Dark	Surface (I	F6)		Uery	/ Shallow Dark Surface (TF12)
	u Below Dark Sulla ark Surface (A12)	ce (ATT)		essions (F	÷(<i>∟1)</i> :8)			er (Explain in Remarks)
Sandy N	Aucky Mineral (S1)	(LRR N,	Iron-Mangan	nese Mass	es (F12) (LRR N.		
MLR	A 147, 148)	`	MLRA 13	6)		,		
Sandy C	Gleyed Matrix (S4)		Umbric Surfa	ace (F13)	(MLRA 13	36, 122)	³ Indica	tors of hydrophytic vegetation and
🔲 🛄 Sandy F	Redox (S5)		Piedmont Flo	oodplain S	Soils (F19)	(MLRA 1	48) wetla	nd hydrology must be present,
Stripped	Matrix (S6)	,	Red Parent I	Material (F	-21) (MLR	A 127, 14	7) unles	s disturbed or problematic.
Restrictive	Layer (if observed):						
Type: Depth (in	ches):						Hydric Soil Pr	esent? Yes 🔽 No 🗌
Remarks:								



Date Received: <u>6/18/20</u> PL#

PL# 20200930

Riparian Buffer Review Application Surface Water Identification Request for <u>Major Subdivisions</u>

Tract Information
Parcel #: Watershed District (and name of creek if known):
Property Owner: TRESSTINTION Company LLC
Location/Physical Address of Tract: 10992 Monree Sc Such Bola R, Olaoh, Mich & 27559
Driving Directions from Pittsboro: Turne tech on Mon Que Bittsboro Rides (7.6 miles),
Turnetertitosite State Rid: da 970/Bor dam Dam Right (Ot. 9 Mile), school Right on te). Menicuire isotiool
nght.
Subdivision Name (if applicable):
Owner's/Agent Contact Information (Agent: Consultant, Real Estate Agent, Surveyor, Other) Circle one
Name: LaguerenoNortesiHeflin
Contact Phone Numbers: (h) (w) 9119866694943 (c) 91196607712323
E-mail:
Mailing Address: 5440 Ori Thirdy Rude Southeale O. Rateigh, NC 27607
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?
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 –



Riparian Buffer Review Application Surface Water Identification Request

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

V NRCS map with property boundary depicted

USGS map with property boundary depicted

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

Signed Right to Enter Property Form

Signed Owner's Agent Designation Form

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

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

Total Number of Features:

Total Paid: \$

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

mbg Company 2/16 Date: 15 Owner/Agent Signature:





CHATHAM COUNTY

AUTHORIZED AGENT FOR FORM

PROPERTY LEGAL DESCRIPTION:

LOT NO. 000124229 PARCEL ID (PIN) 9678-55319853.00 PARCEL SIZE 150 are res

STREET ADDRESS: 1052 Monsure School Road, Moncure, NC 27559

Please print: Property Owner : _	TCI Timber Grapany, 22C	
Property Owner: _		

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

Laurenn Norris-Heflin	, of TimpononsuGroup
(Contractor / Agent)	(Name of consulting firm if applicable)

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

_____ Check here for all of the below options.

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

Property	Owner's A	ddress	(if different	than prope	rty above);			1	1	
	1200	N	23(2	St.	Suite	20]	Wi	ming	en / VCi	28%
Telephone	e: <u>910</u> .	815	,432	0	E-mail:	thing	ante	Camp	sbellgldon,	1. Cong

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

knowledge.	
TEE ISUMAAL (SAMANUM)) (Low Com Aft
Owner Authorized Signature	Agent Authorized Signature
Date: 6 15 20 9 1 0000	Date: 06/16/2020

Revised 10/2017



Thuman

Website: www.chathamnc.org

Authorization to Enter Property Form
Date: 6 15 20
PARCEL No. (AKPAR) 0011229
I, (print name) TCTTYnberCompany, 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.

IA.

(Print Owner's Name)

Laurem Notorisis-leftifin

(Print Authorized Agent Name)

(Signature of Owner) (Date) Zandon Hf

(Signature of Authorized Agent) (Date)