WETLAND DETERMINATION DATA FORM -- Atlantic and Gulf Coastal Plain Region

Project/Site: ACP	City/County: W(1800 Sampling Date: 7/28/14
Applicant/Owner: DOMINION	State: NC Sampling Point: www.o 021 f.w
	Section, Township, Range: NA
Landform (hillsland torrace ata): But tam	Local relief (concave convex none): CONCOVE Slone (%): 0 - 2
Subregion (LRR or MLRA): LRR P Lat:35.7	77815 Long: -78-05582 Datum: WGS 84
	NWI classification: PFO
Soil Map Unit Name: Pibb IOam	
Are climatic / hydrologic conditions on the site typical for this time of ye	
Are Vegetation, Soil, or Hydrology significantly	
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	Is the Sampled Area
Hydric Soil Present? YesNo	within a Wetland? Yes No
Wetland Hydrology Present? Yes No	Within a Wedahu!
Remarks:	
	·
HYDROLOGY	Casandan, Indiasters (minimum of two required)
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	
Surface Water (A1) Aquatic Fauna (B' Marl Deposits (B1)	
Saturation (A3) Hydrogen Sulfide	The state of the s
 	heres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2)	The state of the s
	ıction in Tilled Soils (C6) 🔲 Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	_ · · · _ · · · · · · · · · · · · · · ·
Iron Deposits (B5) Uher (Explain in	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
☐ Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations: Surface Water Present? YesNoDepth (inches	sel: N/A
Surface Water Present? Yes No Depth (inche Water Table Present? Yes No Depth (inche	(3).
Saturation Present? Yes No Depth (inche	es): (6 Wetland Hydrology Present? Yes No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial pho	otos, previous inspections), if available:
Remarks:	
Nonano.	
	· ·

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

2011/23+1	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 301×301)		Species?		Number of Dominant Species
1. Acer rubrum	<u>10 </u>	<u> </u>	FAC	That Are OBL, FACW, or FAC: (A)
2		r	•	
3				Total Number of Dominant Species Across All Strata: (B)
				Species Across Air Stratat(b)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: (A/B)
6				
7				Prevalence Index worksheet:
				Total % Cover of: Multiply by:
8	$\overline{}$	= Total Co		OBL species x 1 =
<u></u>		= lotalCo	ver フ	FACW species x 2 =
50% of total cover:	20% of	total cover	:_ <u></u>	i i
Sapling/Shrub Stratum (Plot size: 15×(5))			_	FAC species x 3 =
1. Liquidambor Styrocisicia	16	<u> </u>	FAC	FACU species x 4 =
2. Acer rubrum	5	\mathcal{N}	FAC	UPL species x 5 =
3. Magnolia Virginiano	٠ - ۲	1/	FACW	Column Totals: (A) (B)
3. Tronditorior	<u> </u>	7	174C W	1
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6.				Rapid Test for Hydrophytic Vegetation
7				k=n/
	- —			
8	~ ~ ~ ~			☐ 3 - Prevalence Index is ≤3.01
14	_30_	= Total Co	/ 4	Problematic Hydrophytic Vegetation¹ (Explain)
,50% of total cover:	<u></u> 20% o	f total cove	r: <u> </u>	
Herb Stratum (Plot size: 50% of total cover: 5				¹Indicators of hydric soil and wetland hydrology must
1. Woudwardia avectata	15	Ý	OBL	be present, unless disturbed or problematic.
2 RUPUS BIGUTES	- 	· \	FAC	Definitions of Four Vegetation Strata:
		. —		Definitions of Four Vegetation Strata:
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6.			•	On the 10th of the third and analysis of the
				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7				than 5 in. DBN and greater than 5.20 it (1 in) tail.
8				Herb - All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10.				184 - 1 - 1 - Alberta de disconsidera de Confession
11.				Woody vine - All woody vines greater than 3.28 ft in height.
		-		. Treight.
12				·
	<u>, 20</u>	_ = Total C	over	
50% of total cover: / 6	<u> </u>	of total cove	er: <u> </u>	
Woody Vine Stratum (Plot size: 30 × 30)		,		
1. Smilax rutura; tulia	20	У	FA	
	- []	- - 1	- EXX	-
2. Vitis rotundi Eulia	70		<u> rrc</u>	-
3				_
4.				
5				
J	60			- Hydrophytic Vegetation
		_ = Total C	17	Present? Yes No
50% of total cover: 3	<u>O</u> 20%	of total cov	er:	- 11636HE1 163
Remarks: (If observed, list morphological adaptations be	elow).			
	·			
1				•
				·

Profile Description: (Describe to the deg	th needed to docum	ent the indicator or confir	m the absence of in	dicators.)
Depth <u>Matrix</u>	Redox	Features	_	_
(inches) Color (moist) %	Color (moist)			Remarks
0-16 104R2/1 100			<u> </u>	
16-24 104R3/1 100			<u>L</u> S	
				· · · · · · · · · · · · · · · · · · ·
				-
·	*** · · · · · · · · · · · · · · · · · ·			
			- 	
¹ Type: C=Concentration, D=Depletion, RM				Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to al	I LRRs, unless other	wise noted.)	_	Problematic Hydric Soils ³ :
Histosol (A1)	=	ow Surface (S8) (LRR S, T		(A9) (LRR O)
Histic Epipedon (A2)		face (S9) (LRR S, T, U)		(A10) (LRR S)
Black Histic (A3)		Mineral (F1) (LRR O)		ertic (F18) (outside MLRA 150A,B)
Hydrogen Sulfide (A4)	Loamy Gleye			loodplain Soils (F19) (LRR P, S, T)
Stratified Layers (A5)	Depleted Mat			Bright Loamy Soils (F20)
Organic Bodies (A6) (LRR P, T, U)	Redox Dark S		(MLRA 1	•
5 cm Mucky Mineral (A7) (LRR P, T, U		k Surface (F7)		Material (TF2) W Dark Surface (TF12)
Muck Presence (A8) (LRR U)	Redox Depre	• •		lain in Remarks)
1 cm Muck (A9) (LRR P, T) Depleted Below Dark Surface (A11)		oric (F11) (MLRA 151)	Ctriei (Exp	alli ili Kellaiks)
Thick Dark Surface (A12)		ese Masses (F12) (LRR O,	P T) ³ Indicator	s of hydrophytic vegetation and
Coast Prairie Redox (A16) (MLRA 150	A) X Umbric Surfa	ce (F13) (LRR P, T, U)		hydrology must be present,
Sandy Mucky Mineral (S1) (LRR O, S		(F17) (MLRA 151)		disturbed or problematic.
Sandy Gleyed Matrix (S4)	T-1-1	tic (F18) (MLRA 150A, 150		, , , , , , , , , , , , , , , , , , ,
Sandy Redox (S5)		odplain Soils (F19) (MLRA		
Stripped Matrix (S6)		right Loamy Soils (F20) (M		BD)
Dark Surface (S7) (LRR P, S, T, U)				
Restrictive Layer (if observed):		"		
Туре:				
Depth (inches):			Hydric Soil Pre	sent? Yes No
Remarks:				
Remarks.				
i				
i				



Wetland data point wwio021f_w facing northeast.

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: ACP	City/County: WIISUN Sampling Date: 7/28(14
Applicant/Owner: DOminion	State: NC Sampling Point: \N\W.002_U
Investigator(s): ESI - 17. May Pares	Section, Township, Range: NA
Landform (hillslope, terrace, etc.): Side Stope	Local relief (concave, convex, none): CONVEX Slope (%): 2-5
Subregion (LRR or MLRA): LRR P Lat:35.	77902 Long: -78,05588 Datum: WGS84
Soil Map Unit Name: 8-65 100M	NWI classification: NA
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 significantl	
Are Vegetation, Soil, or Hydrology naturally p	
<u> </u>	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: Yes No	Is the Sampled Area within a Wetland? Yes No
HYDROLOGY	Secondary Indicators (minimum of two required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply	
Surface Water (A1) Aquatic Fauna (B	
High Water Table (A2) Marl Deposits (B	
Saturation (A3) Hydrogen Sulfide	
	heres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Redi	uced Iron (C4)
☐ Drift Deposits (B3) ☐ Recent Iron Redu ☐ Algal Mat or Crust (B4) ☐ Thin Muck Surface	Parties
Iron Deposits (B5)	_ /
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations: Surface Water Present? Yes No Depth (inchest)	. NA
	s): <u>7</u> 20
Water Table Present? Yes No Depth (inche Saturation Present? Yes No Depth (inche	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial pho	tos, previous inspections), if available:
Remarks:	
TO MAINS	
	Later the second se

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

3.11×3/1		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 301×301)		Species?		Number of Dominant Species
1. Carpinus caroliniana	<u> 20 </u>		FAC	That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Species Across All Strata: (B)
4				Percent of Dominant Species 1 /\(\rho_{\rho}\rho'\)
5				That Are OBL, FACW, or FAC: (A/B)
6				
7				Prevalence Index worksheet:
8				Total % Cover of:Multiply by:
	70	= Total Cov	er .	OBL species x 1 =
50% of total cover:/ (20% of	f total cover	: 4	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 15 × 15)				FAC species x 3 =
1. Ilex oponca	10	Y	FAC	FACU species x 4 =
2. Acer VUlorum	15	7	FAC	UPL species x 5 =
3. Liquidambar Sturecialus	15		FAC	Column Totals: (A) (B)
•		$\overline{-}$	1 110	
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 ¹
3	_35_	= Total Cov	/er ┌┐	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 17	<u>5</u> 20% o	f total cover	: <u> </u>	
Herb Stratum (Plot size: 3 X S)	_	_		¹ Indicators of hydric soil and wetland hydrology must
1. Arundinaria gigantea		. <u>Y</u>	FACW	be present, unless disturbed or problematic.
2.		· • • • • • • • • • • • • • • • • • • •		Definitions of Four Vegetation Strata:
3.				To Manda danta analysis size 0 is 77 0 amb as
4.				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5				height.
6				Santing/Shaub. Mandu plants, avaluding visce loss
				Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7				
8				Herb All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
9				of size, and woody plants less than 3.20 it tail.
10		. ———		Woody vine - All woody vines greater than 3.28 ft in
11				height.
12		·		1
	<u>, -</u> 2_	= Total Co	ver	
50% of total cover:	20%	of total cove	r:	
Woody Vine Stratum (Plot size: <u>メッススット</u>)		1/	F-40	
1. Smilax rutundiquia	<u> 15</u>	<u> </u>	<u>FAC</u>	
2. Vitis potendifolia	_ /\	4	FAC	
3.				
4.		-		
5.				Hudaa shada
J	30	= Total Co		Hydrophytic Vegetation
FOOY of total across 15	-		1.	Present? Yes No
50% of total cover:		of total cove	I +	
Remarks: (If observed, list morphological adaptations be	iow).			

Profile Desi	cription: (Describe to the dept	th needed to docu	ment the i	ndicator	or confirm	the absence of ind	icators.)
Depth	Matrix		x Feature				
(inches)	Color (moist) %	Color (moist)		_Type ¹	Loc ²	Texture	Remarks
0-4	104R4/1100	<u> </u>	-			<u></u>	
14-20	104R5/3 100					L5	
	7						,
							
l			_				
			-				
l				·			
	oncentration, D=Depletion, RM=				ains.		ore Lining, M=Matrix.
Hydric Soil	Indicators: (Applicable to all			-		r-1	oblematic Hydric Soils ³ :
│ <u>□</u> Histoso		Polyvalue Be					
	pipedon (A2)	Thin Dark St				2 cm Muck (#	
	istic (A3)	Loamy Muck			t O)		tic (F18) (outside MLRA 150A,B)
	en Sulfide (A4)	Loamy Gley		(F2)			odplain Soils (F19) (LRR P, S, T)
	d Layers (A5)	Depleted Ma					Bright Loamy Soils (F20)
	Bodies (A6) (LRR P, T, U)	Redox Dark	-			(MLRA 153	,
	ucky Mineral (A7) (LRR P, T, U)						Material (TF2) Dark Surface (TF12)
	resence (A8) (LRR U)	Redox Depr		0)			in in Remarks)
	uck (A9) (LRR P, T) d Below Dark Surface (A11)	Depleted Oc	-	(M) DA 1	E4\	Ciriei (Expiai	iii iii Reiliaiks)
_	ark Surface (A12)	Iron-Mangar				T) ³ Indicators (of hydrophytic vegetation and
	Prairie Redox (A16) (MLRA 150					•	ydrology must be present,
. —	Mucky Mineral (S1) (LRR O, S)	Delta Ochric		-	, 0,		sturbed or problematic.
	Gleyed Matrix (S4)	Reduced Ve		-	50A. 150B)		, and a process of the second
. =	Redox (S5)	Piedmont FI					
	d Matrix (S6)					A 149A, 153C, 153D)
_	urface (S7) (LRR P, S, T, U)	_	•		, , ,		
	Layer (if observed):						
Type:							_
Depth (ir	nches):					Hydric Soil Prese	ent? Yes No
Remarks:							
remans.							
							•
İ							
1							



Upland data point wwio021_u facing north.

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region Project/Site: _ACP City/County: Wilson _ Sampling Point WWOONF Applicant/Owner: DOMINION Investigator(s): ESI-K.MUYPhray Section, Township, Range: Landform (hillslope, terrace, etc.): Flat Local relief (concave, convex, none): ______ CONCAVE ____ Slope (%): Subregion (LRR or MLRA): LRRP _ Long:-78,0548 Soil Map Unit Name: 3.65 NWI classification: Are climatic / hydrologic conditions on the site typical for this time of year? Yes (If no, explain in Remarks.) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area Hydric Soil Present? within a Wetland? No Wetland Hydrology Present? Remarks: **HYDROLOGY** Secondary Indicators (minimum of two required) Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Aquatic Fauna (B13) Sparsely Vegetated Concave Surface (B8) Surface Water (A1) Drainage Patterns (B10) Marl Deposits (B15) (LRR U) High Water Table (A2) Hydrogen Sulfide Odor (C1) Moss Trim Lines (B16) Saturation (A3) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Water Marks (B1) Sediment Deposits (B2) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Thin Muck Surface (C7) Geomorphic Position (D2) Algal Mat or Crust (B4) Other (Explain in Remarks) Shallow Aguitard (D3) Iron Deposits (B5) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Sphagnum moss (D8) (LRR T, U) ☐ Water-Stained Leaves (B9) Field Observations: Depth (inches): Surface Water Present? Depth (inches): Water Table Present? Depth (inches): Wetland Hydrology Present? Yes Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

	^haaluta	Daminant	Indiantes 3	Daminana Tart weekshoots
Tree Stratum (Plot size: 30'X30')	Absolute	Dominant Species?		Dominance Test worksheet:
Tiee Stratum (Flot size. V - 10-1)	20	1/	FAC	Number of Dominant Species
1. Nyssa sylvática				That Are OBL, FACW, or FAC: (A)
2. Acer rubium	10		FAC	Total Number of Dominant
3. Pinus taeda	3	N	FAC	Species Across All Strata: (B)
4. Liquidombor Styraciflua	~	\overline{N}	FAC	Openica / Ici das / III dirate.
V 1			<u></u>	Percent of Dominant Species 100
5				That Are OBL, FACW, or FAC:
6				
7				Prevalence Index worksheet:
				Total % Cover of: Multiply by:
8	-110	. 		OBL species x1 =
	40	= Total Co	ver	l '
50% of total cover: 20	20% o	f total cove	r: 8	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 301 × 30)				FAC species x 3 =
	5	٧ .	FAC	FACU species x 4 =
1. ACEY KUBRUM		!	· 	
2 Movella Cerifera	5	<u> </u>		UPL species x 5 =
3 Ligustrum sinense	10	v	PAC.	Column Totals: (A) (B)
9				
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				Rapid Test for Hydrophytic Vegetation
7		_		2 - Dominance Test is >50%
8	9.0	-		3 - Prevalence Index is ≤3.0 ¹
		_= Total Co		Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover:/				in the sound to the second to
Herb Stratum (Plot size: 301230)		01 10101 0011	··· ———	
	5		n.01	¹ Indicators of hydric soil and wetland hydrology must
1. Woodwardin areolata		_ ~	<u> 08L</u>	be present, unless disturbed or problematic.
2. Wood Wardia Virginica	(0)	N	OBL	Definitions of Four Vegetation Strata:
3. Osmundastrum cinnamomeum	_ <	N	FACW	
			_ — —	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Microstegiam Vinineum		_ 	_ Fac	more in diameter at breast height (DBH), regardless of
5. Saururus CERNUUS	(nD	У	OBL	height.
			_	Bur Carlota 1 - Marakanlanta avaludina dina 1000
6				Sapling/Shrub – Woody plants, excluding vines, less
7		_		than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb - All herbaceous (non-woody) plants, regardless
9.				of size, and woody plants less than 3.28 ft tall.
10/	-			-
10				- Woody vine - All woody vines greater than 3.28 ft in
11				_ height.
12				1
161	1/10	= Total C		
_				
50% of total cover: 🕰	<u>//</u> 20%	of total cov	/er: <u></u>	_
Woody Vine Stratum (Plot size: 301X3)				
1 VITIS COtuntiforio	10	٧.	FA	
	- ``			-
2. Smilax votundifolia	<u> </u>	<u> </u>	_ FRC	_
3.	•			
			 	-
4				-
5				- Hydrophytic
	1 /	= Total	Cover	Vegetation
J 5	-		ver: 2,2	10-10
50% of total cover: 2.		o oi total co	ver:	
Remarks: (If observed, list morphological adaptations b	elow).			
	•			

rofile Des	cription: (Describe	to the depth n			r or confirm	the absence of inc	licators.)
Depth (inches) — \	Matrix Color (moist) 104R 2/1	% 100	Redox Color (moist)	Features % Type	Loc ²	Texture	Remarks
-12: 	10GR 3/1	<u> 100 </u>					
-			dd Matrix MC			21 postion: Pl =1	Pore Lining, M=Matrix.
ydric Soil Histosc Histosc Histic E Black H Hydrog Stratifie Organi 5 cm M Muck F 1 cm M Deplet Thick I Coast Sandy Sandy Strippe	Concentration, D=Depter Indicators: (Applied Indica	P, T, U) RR P, T, U) Ce (A11) (MLRA 150A) (LRR O, S)	Rs, unless other Polyvalue Be Thin Dark Su Loamy Muck; Loamy Gleye Depleted Ma Redox Dark : Depleted Dai Redox Depre Marl (F10) (L Depleted Oc Iron-Mangan Umbric Surfa Delta Ochric Reduced Ve Piedmont Fi	wise noted.) low Surface (S8) urface (S9) (LRR y Mineral (F1) (L ed Matrix (F2) trix (F3) Surface (F6) rk Surface (F7) essions (F8) LRR U) hric (F11) (MLRA lese (F13) (LRR II (F17) (MLRA II rtic (F18) (MLRA loodplain Soils (F	(LRR S, T, U S, T, U) RR O) (151) (2) (LRR O, P) (2) (LRR O, P) (3) (150A, 150B	Indicators for P Indicators f	Problematic Hydric Soils ³ : (A9) (LRR O) (A10) (LRR S) ertic (F18) (outside MLRA 150A,B) loodplain Soils (F19) (LRR P, S, T) Bright Loamy Soils (F20) 53B) Material (TF2) w Dark Surface (TF12) tain in Remarks) s of hydrophytic vegetation and hydrology must be present, disturbed or problematic.
Restrictiv Type: _ Depth (e Layer (if observed):	_			Hydric Soil Pre	sent? Yes Vo
Remarks:	161-e to	re+rie	VE 56	il Pas	+ 12%	nches	



Wetland data point wwio019f_w facing north.

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: ACP	City/County: \\\	son	_ Sampling Date: <u>7/28/14</u>
Applicant/Owner: Dominion		State: NC	_ Sampling Point: WW. 0019-0
Investigator(s): FSI-IS, MUYPNIEY	Section, Township, F	Range: NA	
Landform (hillslope, terrace, etc.):	Local relief (concave	e, convex, none): CONV	ex Slope (%): 2-5
Subregion (LRR or MLRA): L RR P Lat:	35,77822	Long: -78,05	+94 Datum: W6584
Soil Map Unit Name: Bibb (OAM)		NWI classi	fication: NA
Are climatic / hydrologic conditions on the site typical for this tim	ne of year? Yes No	/If no evolain in	Remarks)
Are Vegetation, Soil, or Hydrology signif	ficently disturbed?	re "Normal Circumstances	" present? Yes No
Are Vegetation, Soil, or Hydrology natur		needed, explain any ansv	
SUMMARY OF FINDINGS – Attach site map sho		•	·
::/	Wing sampling point	tiocations, transec	ts, important leatures, etc.
Hydrophytic Vegetation Present? Yes No	Is the Samp	led Area	
Hydric Soil Present? Yes No		tland? Yes	No
Wetland Hydrology Present? Yes No Remarks: Assa 15 Part of Fill Slage	130 11:000	. 0 -1	
Remarks: Area is part of Fill slope	FOR ACCOUNT	FORC	
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Inc	dicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that	apply)	—	oil Cracks (B6)
Surface Water (A1)		— · ·	Vegetated Concave Surface (B8)
	sits (B15) (LRR U)	<u> </u>	Patterns (B10)
	Sulfide Odor (C1)		n Lines (B16) on Water Table (C2)
1 =	hizospheres along Living R of Reduced Iron (C4)	· · · — ·	Burrows (C8)
 	n Reduction in Tilled Soils (n Visible on Aerial Imagery (C9)
	Surface (C7)		hic Position (D2)
	olain in Remarks)		Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)		=	itral Test (D5)
Water-Stained Leaves (B9)		<u>L</u> Sphagnu	m moss (D8) (LRR T, U)
Field Observations: Surface Water Present? Yes No Depth	. (Inc.). A/A	i	
→ .	(inches): 717	_	
Water Table Present? Yes No Depth Saturation Present? Yes No Depth	(inches): 720	Wetland Hydrology Pro	seent? Vas N
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monitoring well, ae	rial photos, previous inspec	tions), if available:	
Remarks:			
Tromano.			
·			

0 = 1	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 3)(×30)		Species?		
1. Pinus toreso	20	V	FAC	Number of Dominant Species
	<u>5</u>	/ /		That Are OBL, FACW, or FAC: (A)
F-1			<u>FY</u>	Total Number of Dominant
3. Liquidamber Starocifica	_5	(\)	FAC	Species Across All Strata: (B)
•				
				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
5				That Are OBL, FACW, or FAC: /// (A/B)
6				
7				Prevalence Index worksheet:
				Total % Cover of: Multiply by:
8	20			OBL species x 1 =
		= Total Cov		i i
50% of total cover:/	20% of	f total cover	: <u> </u>	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: <u> </u>			•	FAC species x 3 =
1. MOYELLA CERIFERA	4	Ý	FAC	FACU species x 4 =
		<u> </u>	FAC	UPL species x 5 =
2. OUTERCUS NIGRA	<u> </u>	<u> </u>		1
3. Liaustrum sinosa		4	FAC	Column Totals: (A) (B)
				1 5.
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6		·		☐ 1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8	15			3 - Prevalence Index is ≤3.01
	<u></u>	= Total Co	ver	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 7	<u>5</u> 20% d	of total cove	<u>ت</u> :r:	.
Herb Stratum (Plot size: 30' ×5')				1 Indicators of hydric call and wallend hydrology myot
1. Woodwardia aved ata	<	У	08	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2				Definitions of Four Vegetation Strata:
3				To a March class controller of a 7 Combot
4				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
				height.
5	_ 			- 10.91%
6				Sapling/Shrub - Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
				-
8				
9				of size, and woody plants less than 3.28 ft tall.
10	_			- Woody vine - All woody vines greater than 3.28 ft in
11.				height.
				_ noight
12			-	-
	2	_ = Total C	over ,	
50% of total cover: 2.	5 20%	of total cov	er:	
Woody Vine Stratum (Plot size: 30 × 30 1)				-
voody vine stratum (Flot size.	5	V	FA (
1. Smilax Votuni ; Eulia				_
2. Vitis YNTUNAIEUI. a			1-Apr	
3				
0.				- }
4				
5				- Hydrophytic
	16	_ = Total C	Cover	Vegetation
500/ a64a4a1 aassam	200/	of total cov		Present? Yes No
50% of total cover:		or total cov	/ei	-
Remarks: (If observed, list morphological adaptations be	elow).			
,				

Profile Des	cription: (Describe to the dept	n needed to document the indicator or confirm	the absence of indicators.)
Depth	Matrix 9/	Redox Features	Tankina
(inches)	Color (moist) %	Color (moist) % Type¹ Loc²	Texture Remarks
0-8	104R5/4/00		<u>LS</u>
8-20	104RS/3 100		<u></u>
· · · · · ·	· ——		
l			
	•		
ļ 			
		Reduced Matrix, MS=Masked Sand Grains.	² Location: PL=Pore Lining, M=Matrix.
l	* * *	LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
Histoso		Polyvalue Below Surface (S8) (LRR S, T, t	
1888	pipedon (A2)	Thin Dark Surface (S9) (LRR S, T, U)	2 cm Muck (A10) (LRR S)
; " "	fistic (A3)	Loamy Mucky Mineral (F1) (LRR O)	Reduced Vertic (F18) (outside MLRA 150A,B)
1 1999	en Sulfide (A4)	Loamy Gleyed Matrix (F2)	Piedmont Floodplain Soils (F19) (LRR P, S, T)
	ed Layers (A5)	Depleted Matrix (F3)	Anomalous Bright Loamy Soils (F20)
_	c Bodies (A6) (LRR P, T, U)	Redox Dark Surface (F6)	(MLRA 153B)
	Sucky Mineral (A7) (LRR P, T, U)	· · · · · · · · · · · · · · · · · · ·	Red Parent Material (TF2) Very Shallow Dark Surface (TF12)
	Presence (A8) (LRR U)	Redox Depressions (F8)	Other (Explain in Remarks)
	luck (A9) (LRR P, T) ed Below Dark Surface (A11)	Marl (F10) (LRR U) Depleted Ochric (F11) (MLRA 151)	— Other (Explain in Remarks)
	Dark Surface (A12)	Iron-Manganese Masses (F12) (LRR O, P	T) 3Indicators of hydrophytic vegetation and
_	Prairie Redox (A16) (MLRA 1507		wetland hydrology must be present,
1 1	Mucky Mineral (S1) (LRR O, S)	Delta Ochric (F17) (MLRA 151)	unless disturbed or problematic.
	Gleyed Matrix (S4)	Reduced Vertic (F18) (MLRA 150A, 150B	·
	Redox (S5)	Piedmont Floodplain Soils (F19) (MLRA 1	•
	ed Matrix (S6)	Anomalous Bright Loamy Soils (F20) (MLI	
	Surface (S7) (LRR P, S, T, U)		,
	Layer (if observed):		
Type:			
	inches):		Hydric Soil Present? Yes No
			11,000 000 1100 1100 1100 1100 1100 110
Remarks:			
1			
1			
1			
1			
1			



Upland data point wwio019_u facing south.

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: ACP	City/County: Will	son	_ Sampling Date: 7/28/14
Applicant/Owner: DOMinio	, okyrodanky: <u>- 1,2</u>	State: NC	Sampling Point: WWIO 020 P.
Investigator(s): EST - K, MURPHYEY	Section Township R	Pange: NA	
Landform (hillslope, terrace, etc.):	Local relief (concave	, convex, none):	ne: Slope (%): U-3
Subregion (LRR or MLRA): LRP Lat: 35.	77626	Lana: -78.053	3% Datum: IA) 6584
Soil Map Unit Name: Wagram LOWING SOON	7 7000	Long. 7070 - 5	ication: PFO
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			present? Yes No
Are Vegetation, Soil, or Hydrology naturally p	roblematic? (If	needed, explain any answ	vers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showin	g sampling point	locations, transect	s, important features, etc.
Hydrophytic Vegetation Present? Yes No	la tha Camala		
Hydric Soil Present? YesNo	 Is the Sample within a Wetl 		No
Wetland Hydrology Present? Yes No	- Willim a well	andr les	
Remarks:			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indi	cators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply		<u></u>	il Cracks (B6)
☐ Surface Water (A1) ☐ Aquatic Fauna (B			egetated Concave Surface (B8)
High Water Table (A2) High Water Table (A2) Marl Deposits (B1) Columnia (A2)		<u> </u>	Patterns (B10)
Saturation (A3) Hydrogen Sulfide Water Marks (B1) Oxidized Rhizosp	oberes along Living Roc		Lines (B16) n Water Table (C2)
Sediment Deposits (B2) Sediment Deposits (B2) Presence of Redu			urrows (C8)
	uction in Tilled Soils (Ce	-	Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)			ic Position (D2)
Iron Deposits (B5) Other (Explain in	Remarks)	Shallow Ad	quitard (D3)
Inundation Visible on Aerial Imagery (B7)			al Test (D5)
☐ Water-Stained Leaves (B9)		☐ Sphagnum	moss (D8) (LRR T, U)
Field Observations: Surface Water Present? Yes NoDepth (inches)	· MA		
Surface Water Present? Yes No Depth (inche	es): >20		
		Matland Underland Des	amta Van
Saturation Present? Yes No Depth (inche (includes capillary fringe)	;s): <u> </u>	Wetland Hydrology Pres	ent? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial pho	otos, previous inspectio	ons), if available:	
Remarks:			• 1
,			
·			
· /			

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

201/201	Absolute		Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 1×30)		Species		Number of Dominant Species
1. Liquidambay Stataciana	20	. 7	<u>FAC</u>	That Are OBL, FACW, or FAC: (A)
2. Manclia Vivaianiano	<u>. LS</u>	<u> </u>	FACW	Total Number of Deminant
3. Liviodenden tulipieera	5	N	FACU	Total Number of Dominant Species Across All Strata: (B)
4	•			
				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7	• —			Total % Cover of: Multiply by:
8	· ——-			,
		= Total Co	ver	OBL species x 1 =
50% of total cover: 20	<u>) 20% c</u>	of total cove	r: <u>8</u>	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30 × 30)		,		FAC species x 3 =
1. Magnotia virgianiona	ΙĎ	У	EACW	FACU species x 4 =
2 Liquinambor Stylaciella	. 10	- / v 	FAC	UPL species x 5 =
3. Symplocos tinctolin	` 	· // /	FAC	Column Totals: (A) (B)
		- - 7	<u> </u>	
4		- —		Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				☐ 3 - Prevalence Index is ≤3.0 ¹
	25	= Total Co	ver	l =
_50% of total cover: <u> </u>				Problematic Hydrophytic Vegetation¹ (Explain)
. 20 -	<u></u>	or total cove		
	20	V	FACW	Indicators of hydric soil and wetland hydrology must
1. OSmunda Cinnolmoneum		- / N		be present, unless disturbed or problematic.
2. Woodwardia areglata	5	_ —	<u>08C</u>	Definitions of Four Vegetation Strata:
3 Athyrium asplenioides	<u> </u>	<u>, W.</u>	FAC	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6.				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine - All woody vines greater than 3.28 ft in
11			- 	height.
12				
	<u> 30</u>	_ = Total C	over .	
50% of total cover:	5 20%	of total cove	er: 💪	
Woody Vine Stratum (Plot size: 30×30)				
1. SMILAX COTUNAISUNIX	10	V	FAC	
2. VITIS rutungisula	- 'č	- /v	- 120	
2. 0 14 12 (0100/018 2)104				
3				
4				
5	_			Hydrophytic
	15	_ = Total C	over	Vegetation
50% of total cover:	5 20%	of total cov	_	Present? Yes No
Remarks: (If observed, list morphological adaptations be				
Tromative. (II observed, list morphological adaptations be	····/·			

Profile Des	cription: (Describe to	o the depth	needed to docui	nent the in	dicator	or confirm	the absence of i	ndicators.)
Depth	Matrix			x Features				
(inches)	Color (moist)	%	Color (moist)	%	Type	Loc ²	<u>Texture</u>	Remarks
0-4	104R2/2	100					_LS	
4-20	10LR3/1	100 _					LS -	
7 6 3	100111371			· ·				
l 								
	•							
l 				· —— ·				
	oncentration, D=Depl					ains.		Pore Lining, M=Matrix.
I —	Indicators: (Applica	ible to all LF		•				Problematic Hydric Soils ³ :
Histoso			Polyvalue Be					(A9) (LRR O)
	pipedon (A2)		Thin Dark Su		-			(A10) (LRR S)
_	istic (A3)		Loamy Muck			(0)		/ertic (F18) (outside MLRA 150A,B)
	en Sulfide (A4)		Loamy Gley	· ·	-2)			Floodplain Soils (F19) (LRR P, S, T)
! 1==?	d Layers (A5) : Bodies (A6) (LRR P,	T 10	Depleted Ma		3)		(MLRA 1	s Bright Loamy Soils (F20)
	ucky Mineral (A7) (LR	-	Depleted Da	,	,			it Material (TF2)
	resence (A8) (LRR U)		Redox Depre					ow Dark Surface (TF12)
	uck (A9) (LRR P, T)		Marl (F10) (I		•			plain in Remarks)
	d Below Dark Surface	(A11)	Depleted Oc	hric (F11) (MLRA 1	51)		
Thick D	ark Surface (A12)		Iron-Mangar	iese Masse	s (F12) (LRR O, P,	T) ³ Indicator	s of hydrophytic vegetation and
. ≔	rairie Redox (A16) (M	•				, U)		I hydrology must be present,
	Mucky Mineral (S1) (L	RR O, S)	☐ Delta Ochric					disturbed or problematic.
. =	Gleyed Matrix (S4)		Reduced Ve			-		
788	Redox (S5)		Piedmont FI	-		•	•	an)
	d Matrix (S6) urface (S7) (LRR P, S	T 10	Anomaious	Bright Loair	ıy Sons (120) (MLK	A 149A, 153C, 15	30)
	Layer (if observed):	, 1, 0)					<u></u>	
	Layer (ii observed).							
Type:			_				United a Coll Day	
	nches):		····•	•			Hydric Soil Pre	esent? Yes No
Remarks:								
			•					
	•							
					•			
	7							
L								



Wetland data point wwio020f_w facing north.

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region Project/Site: _ACP City/County: Wilsun Sampling Date: 7/28/14 Applicant/Owner: DOM IN TOO _ Sampling Point:\\\/\/\\\\0020 Investigator(s): ESI- K, Mai (Phrey Section, Township, Range: N Landform (hillslope, terrace, etc.): Subregion (LRR or MLRA): LRRP Lat: 35, 77620 Long: -78, 0533 Soil Map Unit Name: Wagram loamy Sond NWI classification: Are climatic / hydrologic conditions on the site typical for this time of year? Yes (If no, explain in Remarks.) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Sóil Cracks (B6) ☐ Surface Water (A1) Aquatic Fauna (B13) Sparsely Vegetated Concave Surface (B8) High Water Table (A2) Marl Deposits (B15) (LRR U) Drainage Patterns (B10) Moss Trim Lines (B16) Hydrogen Sulfide Odor (C1) Saturation (A3) Oxidized Rhizospheres along Living Roots (C3) Water Marks (B1) Dry-Season Water Table (C2) Sediment Deposits (B2) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Thin Muck Surface (C7) Geomorphic Position (D2) Iron Deposits (B5) Other (Explain in Remarks) Shallow Aguitard (D3) Inundation Visible on Aerial Imagery (B7) FAC-Neutral Test (D5) ☐ Water-Stained Leaves (B9) Sphagnum moss (D8) (LRR T, U) Field Observations: Surface Water Present? Depth (inches): Water Table Present? Saturation Present? Wetland Hydrology Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

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

2)1/2.1(Dominan		Dominance Test worksheet:
Tree Stratum (Plot size: 3) X30 (Species'		Number of Dominant Species
1. Liriodend for thirtisera	<u> </u>	_//	FACU	That Are OBL, FACW, or FAC:(A)
2. Acer publiam	13		-FAC	Total Number of Dominant
3. Liquidambar Sturacistaa	<u> 15 </u>	<u> </u>	FAC	Species Across All Strata:/ (B)
4		(Percent of Dominant Species / /2/
5				That Are OBL, FACW, or FAC: (A/B)
6				
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
	35	= Total Co	ver	OBL species x 1 =
50% of total cover:				FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 15 × (5)			"·	FAC species x 3 =
1. Acer rubrum	10	У	FAC	FACU species x 4 =
2 Liquidomber Sturocifica	10	4	FAC	UPL species x 5 =
I . T		. <u> !</u>	- 	Column Totals: (A) (B)
3				
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				☐ 3 - Prevalence Index is ≤3.01
, , ,	_20	= Total Co	over 4,	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 10	20% o	f total cove	er:	
Herb Stratum (Plot size: 5 × 5		17		¹ Indicators of hydric soil and wetland hydrology must
1. Rubus argutus	10	. <u> </u>	FAC	be present, unless disturbed or problematic.
2. Wood unidin areclata -	5	Y	<u>08</u> 2	Definitions of Four Vegetation Strata:
3. Atherium asplentoides	3	Ý	FAC	
4. Woodwardie Virginica	- 5	7	OBC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
1 - ·				height.
				Carlo de la Manda de carlo de
6				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7				
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10			 	Woody vine - All woody vines greater than 3.28 ft in
11			- —	height.
12				ļ
13	25	_ = Total C		· ·
50% of total cover: 12	<u>5</u> 20% (of total cove	er: <u>ノ</u>	
Woody Vine Stratum (Plot size: 15 k 15)	~ .	. 1	- 1	
1. <u>Smilax loturdizura</u>	<u>20</u>		PAC_	
2				
3		_		
4.				1
5				1114
0	20	_ = Total C	over	Hydrophytic Vegetation
50% of total cover:/6		of total cov		Present? Yes No
		JI LOLAI COV	EI	
Remarks: (If observed, list morphological adaptations be	ιοw).			

Profile Description: (Describe to the depth need	ded to document the indicator or confirm	the absence of indicators.)
Depth Matrix	Redox Features	To do as
	olor (moist) % Type ¹ Loc ²	Texture Remarks
0-6 104R2/1 100		SL 5% uncoated Sond groins
(n-20: 104R5/2 100.		1.5
20-26 10484/3 100		L<
(XX) = (3 1 1 1 1 1 1 1 1 1		
	,	
1		2
¹Type: C=Concentration, D=Depletion, RM=Redu		² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all LRRs	·	Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Polyvalue Below Surface (S8) (LRR S, T, U)	
Histic Epipedon (A2)	Thin Dark Surface (S9) (LRR S, T, U)	2 cm Muck (A10) (LRR S)
Black Histic (A3)	Loamy Mucky Mineral (F1) (LRR O)	Reduced Vertic (F18) (outside MLRA 150A,B)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Piedmont Floodplain Soils (F19) (LRR P, S, T)
Stratified Layers (A5)	Depleted Matrix (F3)	Anomalous Bright Loamy Soils (F20)
Organic Bodies (A6) (LRR P, T, U)	Redox Dark Surface (F6)	(MLRA 153B)
5 cm Mucky Mineral (A7) (LRR P, T, U)	Depleted Dark Surface (F7)	Red Parent Material (TF2)
Muck Presence (A8) (LRR U)	Redox Depressions (F8)	
1 cm Muck (A9) (LRR P, T)	Marl (F10) (LRR U) Depleted Ochric (F11) (MLRA 151)	Uther (Explain in Remarks)
Depleted Below Dark Surface (A11) Thick Dark Surface (A12)	Iron-Manganese Masses (F12) (LRR O, P, 1	r) ³ Indicators of hydrophytic vegetation and
Coast Prairie Redox (A16) (MLRA 150A)	Umbric Surface (F13) (LRR P, T, U)	wetland hydrology must be present,
Sandy Mucky Mineral (S1) (LRR 0, S)	Delta Ochric (F17) (MLRA 151)	unless disturbed or problematic.
Sandy Gleyed Matrix (S4)	Reduced Vertic (F18) (MLRA 150A, 150B)	diffess distalbed of problematic.
Sandy Gleyed Matrix (34)	Piedmont Floodplain Soils (F19) (MLRA 149	24)
Stripped Matrix (S6)	Anomalous Bright Loamy Soils (F20) (MLRA	
Dark Surface (S7) (LRR P, S, T, U)	(name of Disgrat Education Compared to the Compared Compared to the Compared Compared to the Compared	111071, 1000, 1000,
Restrictive Layer (if observed):		<u> </u>
Type:		` <u> </u>
1 21		Hydric Soil Present? Yes No
Depth (inches):	, , , , , , , , , , , , , , , , , , ,	Hydric Soil Present? Yes No
Remarks:		
		İ
	•	
	,	
-		
		İ
1		



Upland data point wwio020_u facing northeast.

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: ACP	City/County Wil	son	Sampling Date: 7/24/14
Applicant/Owner: Dominion	Only/obdiney	State: NC	Sampling Point: www Ol8f.w
Investigator(s): ESI - JBcn ton			
Landform (hillslope, terrace, etc.): depression/headwat	Section, rownship, r	cange	01/9 Slane 19(1): (1) = 2=
Subregion (LRR or MLRA): LRR P Lat:	35 272 (I N	, convex, none). <u>- Conse</u>	4 W Source W (%)
Subregion (LRR or MLRA): LRK	70 1 1027 T. CC	Long: 78,0320	Datum: V Corrigion
Soil Map Unit Name: Pains sondy loan, 0-			
Are climatic / hydrologic conditions on the site typical for this time			
Are Vegetation, Soil, or Hydrology signif	icantly disturbed? Ar	e "Normal Circumstances	present? Yes X No No
Are Vegetation, Soil, or Hydrology natura	ally problematic? (If	needed, explain any ansv	vers in Remarks.)
SUMMARY OF FINDINGS - Attach site map sho	wing sampling poin	t locations, transec	ts, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: Yes X No No No No No No No No No No No No No	within a Wet		×_ No
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Inc	licators (minimum of two required)
Primary Indicators (minimum of one is required; check all that	apply)		oil Cracks (B6)
Surface Water (A1)		Sparsely	Vegetated Concave Surface (B8)
'man'	its (B15) (LRR U)	Drainage	Patterns (B10)
	Sulfide Odor (C1)	_	n Lines (B16)
1 ' '	hizospheres along Living R	· · · · · · · · · · · · · · · · · · ·	on Water Table (C2)
	of Reduced Iron (C4)		Burrows (C8)
	n Reduction in Tilled Soils (· 🚍	n Visible on Aerial Imagery (C9)
	Surface (C7) lain in Remarks)		hic Position (D2) Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	iain in remarks)		itral Test (D5)
Water-Stained Leaves (B9)		_	m moss (D8) (LRR T, U)
Field Observations:			
Surface Water Present? Yes No Depth	(inches): NA		
Water Table Present? Yes No _X Depth	(inches):	•	
Saturation Present? Yes X No Depth (includes capillary fringe)	(inches):	Wetland Hydrology Pr	esent? Yes X No
Describe Recorded Data (stream gauge, monitoring well, ae	rial photos, previous inspec	tions), if available:	
Remarks:			
1			<u> </u>
			•
		<u> </u>	

	A h = = 1, 4 a	Daminani	Indiantas	Dawings - T-tourslab act
Tree Stratum (Plot size: 30 × 30)	Absolute <u>% Cover</u>			Dominance Test worksheet:
,		Y	PAL	Number of Dominant Species That Are OBL FACW or FAC: (A)
1. Querous nigra	50			That Are OBL, FACW, or FAC: (A)
2. Liquidamber styraciflon	<u> </u>	<u> </u>	PAC	T-tal Mount on of Densin and
3. Acer rubrum	10	N	PAC	Total Number of Dominant Species Across All Strata: (B)
s. // <u>Cd 1731 107</u>	_ 			Species Across All Strata: (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: (A/B)
				(11)
6				Prevalence Index worksheet:
7				
8				Total % Cover of: Multiply by:
	- 80 .	= Total Co	WO.	OBL species x1 =
1.			4 1	FACW species x 2 =
50% of total cover: 1	20% of	f total cove	er: <u> </u>	
Sapling/Shrub Stratum (Plot size: 15 × 15)				FAC species x 3 =
1. Quercus nigra	15	V	FAC	FACU species x 4 =
				UPL species x 5 =
2. Liquidanbar Styraciflua			PAC	
3. Mamolia virginiana	(O	Y	PACW	Column Totals: (A) (B)
3				1
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6.				1 = 1
				1 Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.01
	35	= Total C	over	l
4*				Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 1	113 20% o	of total cov	er:	:
Herb Stratum (Plot size: 5 × 5)				¹ Indicators of hydric soil and wetland hydrology must
1. Arundinaria gigantea	60	V	FYCH	be present, unless disturbed or problematic.
1. Montemarity of Gutt Tex		- 	_ ((10)	<u> </u>
2				Definitions of Four Vegetation Strata:
3				
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4		- —		more in diameter at breast height (DBH), regardless of
5				height.
6				Santing/Charle Mondy plants evoluting vince loss
				 Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7				- I than 3 lit. Don't and greater than 3.20 it (1 lif) tail.
8		_		Herb - All herbaceous (non-woody) plants, regardless
				of size, and woody plants less than 3.28 ft tall.
9				- Or size, and woody plants less than olze it tails
4.0				
10				- Woody vine - All woody vines greater than 3.28 ft in
···				Woody vine All woody vines greater than 3.28 ft in height.
11.				Woody vine All woody vines greater than 3.28 ft in height.
···	<u> </u>			
1112		= Total (Cover .	
1112		= Total (Cover .	
111250% of total cover:		= Total (Cover .	
11	30 20%	= Total (Cover .	
11		= Total (Cover .	
11	30 20%	= Total (Cover .	
11	30 20%	= Total (Cover .	
11	30 20%	= Total (Cover .	
11. 12. 50% of total cover: Woody Vine Stratum (Plot size: 30 x 30) 1. 5milax rotundifolia 2. Vitis rotundifolia 3.	30 20%	= Total (Cover .	
11	30 20%	= Total (Cover .	
11. 12. 50% of total cover: Woody Vine Stratum (Plot size: 30 x 30) 1. 5milax rotundifolia 2. Vitis rotundifolia 3.	30 20% 5 5	= Total co	Cover ver: 12 PAL	height.
11	30 20% 5 5	= Total co	Cover ver: 12 PAL	height. Hydrophytic Vegetation
50% of total cover:	30 20% 5 5	= Total of total co	Cover Cover	height.
50% of total cover:	30 20% 5 5 10 5 20%	= Total co	Cover Cover	height. Hydrophytic Vegetation
11	30 20% 5 5 10 5 20%	= Total of total co	Cover Cover	height. Hydrophytic Vegetation
11	30 20% 5 5 10 5 20%	= Total of total co	Cover Cover	height. Hydrophytic Vegetation
50% of total cover:	30 20% 5 5 10 5 20%	= Total of total co	Cover Cover	height. Hydrophytic Vegetation
11	30 20% 5 5 10 5 20%	= Total of total co	Cover Cover	height. Hydrophytic Vegetation
11	30 20% 5 5 10 5 20%	= Total of total co	Cover Cover	height. Hydrophytic Vegetation
11	30 20% 5 5 10 5 20%	= Total of total co	Cover Cover	height. Hydrophytic Vegetation
11	30 20% 5 5 10 5 20%	= Total of total co	Cover Cover	height. Hydrophytic Vegetation
50% of total cover:	30 20% 5 5 10 5 20%	= Total of total co	Cover Cover	height. Hydrophytic Vegetation
11	30 20% 5 5 10 5 20%	= Total of total co	Cover Cover	height. Hydrophytic Vegetation

301L									ing rount.	
Profile Desc	ription: (Describe	to the depti	n needed to docun	nent the ir	ndicator c	r confirm	the absence of	indicators.)		
Depth	Matrix			k Features			_			1
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	F	Remarks	
0-14	104R2/1	100					10.			
14-20	104R 2/2	100					50.10.			
17-20	1071 /2						77.19.			
]										
										l
		 -		. —						
<u> </u>										
¹ Type: C=C	oncentration, D=De	pletion, RM=	Reduced Matrix, MS	S=Masked	Sand Gra	ins.	² Location: Pl			
Hydric Soil	Indicators: (Appli	cable to all l	LRRs, unless other	rwise note	ed.)		Indicators fo	r Problemati	ic Hydric Soil	s³:
Histoso	I (A1)		☐ Polyvalue Be	low Surfa	ce (S8) (L	RR S, T, L	J) 🔲 1 cm Muo	k (A9) (LRR	O)	
 	pipedon (A2)		Thin Dark Su					ck (A10) (LRI		
 1988	istic (A3)		Loamy Muck						(outside MLF	RA 150A,B)
. =	en Sulfide (A4)		Loamy Gleye	-		•			Soils (F19) (LF	
1 == -	d Layers (A5)		Depleted Ma					-	amy Soils (F20	1
	Bodies (A6) (LRR	P. T. U)	Redox Dark		-6)		(MLRA		,	
_	ucky Mineral (A7) (I							ent Material (TF2)	
	resence (A8) (LRR		Redox Depr						irface (TF12)	1
	uck (A9) (LRR P, T)		Mari (F10) (I		,			xplain in Ren		
	d Below Dark Surfa		Depleted Oc		(MLRA 1	51)]
	ark Surface (A12)	,	Iron-Mangar				.T) ³ Indicat	ors of hydron	hytic vegetati	on and
	Prairie Redox (A16)	(MURA 1504							must be pres	
	Mucky Mineral (S1)		Delta Ochrid			,			r problematic.	
	Gleyed Matrix (S4)	(21111 0, 0)	Reduced Ve			50A 150B		0 4.0.4.000	, problemano	
_	Redox (S5)		Piedmont FI							
_	d Matrix (S6)						RA 149A, 153C, 1	(53D)		ļ
	urface (S7) (LRR P	S T 18)	/ Worrianous	Dright Loo	iiiiy Qollo ,	. 20) (21	01 14074, 1000,	.002,		
							1			
Į.	Layer (if observed	1):						•		
Type:							1		\ \ \	
Depth (i	nches):						Hydric Soil P	resent? Y	/es <u> </u>	No
Remarks:										
										1
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Wetland data point wwio018f_w facing south.

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: ACP	City/County: Wilson Sampling Date: 7/24/14
Applicant/Owner: Dominion	State: NC Sampling Point: WWIOO18-4
	Section, Township, Range: N/A
Landform (hillslope, terrace, etc.): Fill slope	Local relief (concave, convex, none): Concave Slope (%): 0-2
Subsection (I BB or MI BA): Lake P	5,77270 N Long: 78,0528 Datum: W65.1784
Subjection (LRR of MLRA). 214-1	16 Starts Night Starting Vola Od
Soil Map Unit Name: 100113 Soil 100 100 100	year? Yes X No (If no, explain in Remarks.)
	year? Yes No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significant	
Are Vegetation, Soil, or Hydrology naturally p	problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing	ng sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wes No Wetland Hydrology Present? Yes No	is the Sampled Area
Hydric Soil Present? Yes No _V	within a Wetland? Yes No
Wetland Hydrology Present? Yes No V	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that app	
Surface Water (A1) Aquatic Fauna (Mark Deposits (5)	
High Water Table (A2) Saturation (A3) Hydrogen Sulfid	
	spheres along Living Roots (C3)
Sediment Deposits (B2)	-
	duction in Tilled Soils (C6) 🔲 Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surfa	
Iron Deposits (B5) Uther (Explain i Inundation Visible on Aerial Imagery (B7)	in Remarks) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No _X Depth (inc	hes): / K
Water Table Present? Yes No X Depth (inc	
Saturation Present? Yes No _X Depth (inc (includes capillary fringe)	thes): >20 Wetland Hydrology Present? Yes No _X
Describe Recorded Data (stream gauge, monitoring well, aerial p	hotos, previous inspections), if available:
Remarks:	
·	
	•
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70.20	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30×30)				Number of Dominant Species
1. Liquidambar Styraciflya	<u>35 </u>	<u> </u>	MAC	That Are OBL, FACW, or FAC:(A)
2. Pinus tueda	20	<u> </u>	PAL	Tatal Number of Deminent
3. Queras nigra	15	Y	PAC	Total Number of Dominant Species Across All Strata: (B)
4				(5)
			i	Percent of Dominant Species That Are ORL FACIN or FAC: (A/B)
5			ı	That Are OBL, FACW, or FAC:(A/B)
6			<u> </u>	Prevalence Index worksheet:
7				
8				Total % Cover of: Multiply by:
	70	= Total Cov	ver	OBL species x 1 =
50% of total cover: <u>35</u>	20% 0	f total cover	. 14	FACW species x 2 =
15 × 15	20 % 0	i total cover	· -'- -	FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 15 x 15)	25	V	in	FACU species x 4 =
1. Liquidamber Styraciflua			V MC	UPL species x5 =
2. Quereus nigra	15	<u> </u>	MIC	
3. Acer rubrum	lo	. <u> </u>	FAC	Column Totals: (A) (B)
4.	-			Described as Index of DIA
l .				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.01
	50	= Total Co	ver	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 2	20% (- of total cove	r 10	TI Trobleshalic Hydrophytic Vegetation (Explain)
Herb Stratum (Plot size: 5 × 5)			·· 	
An L' C' C' C' L'	30	V	E-MIN)	¹ Indicators of hydric soil and wetland hydrology must
1. Arundinaria gigantea				
2				Definitions of Four Vegetation Strata:
3				Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5.				height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8	_			Herb - All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				NAME AND ADDRESS OF THE PARTY O
11.				Woody vine – All woody vines greater than 3.28 ft in height.
	-			. Tieignt.
12				
	30	_ = Total C	,	
50% of total cover:	2 20%	of total cove	er: 🖊	
Woody Vine Stratum (Plot size: 30 x 30)				
1. Vitis rotundifolia	5	Y	FAC	
2. Smilax rotundifolia			CAL	
		_ —	_ 110	-
3				-
4.				_ }
5				- Hydrophytic
	10	= Total C	:nver	Vanatation
500% of total agreer		of total cov	_	Present? Yes No
50% of total cover:		o or total cov	rei	<u>- </u>
Remarks: (If observed, list morphological adaptations be	elow).			
1				
I .				

Profile Desc	cription: (Descri	be to the dep	th needed to docum	ent the i	ndicator	or confirm	n the absence of	indicators.)	
Depth (inches)	Matrix Color (moist)	%	Color (moist)	KFeature %	sType1	_Loc²	Texture _	Remarks	
(inches) 0 - 6	104R 4/6	100	Color (moist)		Type		Sa. lo.	Nomana	
6-12	2,545/6	90	7,54R 5/8	10	\overline{c}	\overline{M}	Sa.lo.		
12-20:	2.545/6	- 10	7.54R5/8	30		M	Sa.Cl,10.		
12 00	2.07.6	70	1.3/K /0		. —	<i>n</i> (<u> </u>		
	· 	`	· · · · · ·						
	· ——-								
						. ——			
			. D. d				2) anation Di	L-Doro Lining MaMo	leiu
Type: C=C Hydric Soil	indicators: (Ap	Depletion, Kiv	I=Reduced Matrix, MS I LRRs, unless other	wise not	ted.)	anis.		L=Pore Lining, M=Ma r Problematic Hydri	
∏ Histoso		, , , , , , , , , , , , , , , , , , ,	Polyvalue Be			LRR S, T,		ck (A9) (LRR O)	
	pipedon (A2)		Thin Dark Su				2 cm Mu	ck (A10) (LRR S)	
	listic (A3)		Loamy Muck	-		R O)		Vertic (F18) (outside	
	en Sulfide (A4) ed Layers (A5)		Loamy Gleye Depleted Ma		(F2)			it Floodplain Soils (F1 aus Brìght Loamy Soile	
	c Bodies (A6) (LR	R P, T, U)	Redox Dark		F6)			A 153B)	- v. ===,
5 cm №	lucky Mineral (A7)	(LRR P, T, U						ent Material (TF2)	
=	Presence (A8) (LR	•	Redox Depre		F8)			allow Dark Surface (T	F12)
=	luck (A9) (LRR P, ed Below Dark Su	-	Mari (F10) (I) (MLRA	151)	U Other (E	xplain in Remarks)	
	Dark Surface (A12		Iron-Mangar				P, T) ³ Indical	tors of hydrophytic ve	getation and
	Prairie Redox (A1	•	0A) 🔲 Umbric Surfi	ace (F13)	(LRR P,	T, U)		nd hydrology must be	•
	Mucky Mineral (S					="		ss disturbed or proble	matic.
=	Gleyed Matrix (Se Redox (S5)	4)	Reduced Ve						
-	ed Matrix (S6)		_				RA 149A, 153C,	153D)	
	Surface (S7) (LRR								
	e Layer (if observ	ved):					,		
Type: _		 -					Undria Cail I	Present? Yes	No
•	inches):			•••			Hydric Soil F	Present? res	
Remarks:									
	fill Slope	v5 26	†						
	•								
i .									
1									



Upland data point wwio018_u facing north.

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: ACP	City/County: WIISoh Sampling Date: 7/24/14
Applicant/Owner: Dominion.	State: NC Sampling Point: www.o017f_
Investigator(s): <u>ESI</u> - JBenton	Section, Township, Range: 1//A
Subregion (LRR or MLRA): LRRP Lat: 3 Soil Map Unit Name: Brbb loam	Local relief (concave, convex, none): CONCAVE Slope (%): 0-2 55,77083 N Long: 78,05413 W Datum: "/65-198 NWI classification: PFO
Are climatic / hydrologic conditions on the site typical for this time o	
Are Vegetation, Soil, or Hydrology signification	
Are Vegetation, Soil, or Hydrology naturally	ly problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map show	ving sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: Yes No	within a Wetland? Yes No
HYDROLOGY	
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that ap	Secondary Indicators (minimum of two required) Discrete Soil Cracks (B6)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water Stained Leaves (B9) Aquatic Fauna Marl Deposits Hydrogen Sulf Oxidized Rhize Presence of R Recent Iron R Thin Muck Sul Other (Explain	a (B13) s (B15) (LRR U) Ifide Odor (C1) zospheres along Living Roots (C3) Reduced Iron (C4) Reduction in Tilled Soils (C6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
Field Observations: Surface Water Present? Yes No Depth (in	inches). NA
Surface Water Present? Yes No Depth (in Water Table Present? Yes No Depth (in Saturation Present? Yes No Depth (in (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial	inches): 720 Wetland Hydrology Present? Yes X No
Remarks:	

	Absoluto	Dominant	Indicator 1	Dominance Test worksheet:
Tree Stratum (Plot size: 25		Species?		N. set an . (D. sedmant One also
1. Liciadendron tylioifera	40	Y	Mcu	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
1. CITTORCAICTON TOTTOFFEE AT				That Are OBL, FACW, or FAC:(A)
2. Liquidamber Styracifla	30		PAC	Total Number of Dominant
3.				Species Across All Strata:(B)
4				•
				Percent of Dominant Species That Are OBL, FACW, or FAC:
5				That Are OBL, FACW, or FAC: 10 // (A/B)
6				
7				Prevalence Index worksheet:
				Total % Cover of: Multiply by:
8	70			OBL species x 1 =
		= Total Co		FACW species x 2 =
50% of total cover: 35	20% o	f total cover	r: <u> 14</u>	1
Sapling/Shrub Stratum (Plot size:)				FAC species x 3 =
1. Magnolia virginiana	10	V	FACW	FACU species x 4 =
		· {		UPL species x 5 =
2 Ilex opaca		<u> </u>	PAL	
3. Ligustrum sincise	(6	<u> </u>	PAC	Column Totals: (A) (B)
4. ACEL PUBRUM	5	N	PAC	
				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				Rapid Test for Hydrophytic Vegetation
7			•	2 - Dominance Test is >50%
		_		1
8				3 - Prevalence Index is ≤3.0 ¹
	_38	_ = Total Co	over	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 171	5 20%	of total cove	er: 7	
~ .				
Tiere Citatain (Florenze)			E-A-C1.1	¹Indicators of hydric soil and wetland hydrology must
1. Arvadinaria gigantea	- 15		PACW	'
2 unoclea sensibilia	25	_ }	PACW	Definitions of Four Vegetation Strata:
3. Osmundastrum cinnamomeum	ه	Y	FACW	
3. STATION STATE CHAPTER		- +	1 1)= -	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5		_		height.
				Gautina (Olamita 1 Mandu alente eveluding vinon 1000
6				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7				I that 3 lit. DBH and greater than 3.20 it (1 th) tail.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
				, , , , , , , , , , , , , , , , , , , ,
10				- Woody vine – All woody vines greater than 3.28 ft in
11				height.
12.				
12.	_	T-4-10	_	<u></u>
		= Total C		
50% of total cover: 2	<u>\$_</u> 20%	of total cov	/er: <u>10 </u>	_
Woody Vine Stratum (Plot size: 35)				
7	10	V	PAR	
1. Smilax rotundifolis				-
2. Vitis rotunditolia	5		PAC	_1
1.		- , , -		
3				-
4				\
5				- Hydrophytic
	15	= Total (Cover	Vegetation
			_	Present? Yes X No
50% of total cover:	20%	6 of total co	ver:	_
Remarks: (if observed, list morphological adaptations b	elow).			
	•			
1				
•				•

Profile Desc	cription: (Describe	to the depth	needed to docum	nent the i	ndicator	or confirm	the absence of ir	ndicators.)
Depth	Matrix (moist)	%		x Feature: %		_Loc²	Toytura	Remarks
(inches) 0 ~ 6	Color (moist)	- % -	Color (moist)	70	_ ı ype	LUC	Texture	remains
								
6-20	2,544/1	100		· 			loisa,	
	<u> </u>							
								
								<u></u>
				· - <u>-</u>	· <u></u>			
1			aut		d Cand Cr		21 mostion: DI.	-Dere Lining Mahletriy
	oncentration, D=De Indicators: (Appli					airis.		=Pore Lining, M=Matrix. Problematic Hydric Soils ³ :
∏ Histoso		cable to all Li	Polyvalue Be			RRSTU	· · · · · ·	(A9) (LRR O)
	pipedon (A2)		Thin Dark Su					(A10) (LRR S)
-	listic (A3)		Loamy Muck					Vertic (F18) (outside MLRA 150A,
	en Sulfide (A4)	,	Loamy Gley	ed Matrix	(F2)		Piedmont	Floodplain Soils (F19) (LRR P, S,
=	ed Layers (A5)		Depleted Ma					s Bright Loamy Soils (F20)
= -	Bodies (A6) (LRR		Redox Dark	•	,		(MLRA	•
	iucky Mineral (A7) (L Presence (A8) (LRR		Depleted Da		• •			nt Material (TF2) low Dark Surface (TF12)
=	resence (A8) (LRR luck (A9) (LRR P, T)		Marl (F10) (٥,			plain in Remarks)
=	ed Below Dark Surfa		Depleted Oc	-	(MLRA 1	51)		y
= .	Dark Surface (A12)	, ,	Iron-Mangai	nese Mas	ses (F12)	(LRR O, P,	T) ³ Indicato	rs of hydrophytic vegetation and
	Prairie Redox (A16)							d hydrology must be present,
= '	Mucky Mineral (S1)	(LRR 0, \$)	Delta Ochrid					disturbed or problematic.
=	Gleyed Matrix (S4)		Reduced Ve					
	Redox (S5) ed Matrix (S6)		Piedmont F	-			49A) RA 149A, 153C, 1	53D)
	turface (S7) (LRR P	, S, T, U)		Diigiii Eoi	anny conc	(1 20) (1712)	a : 1 10/1, 1000, 1	,
	Layer (if observed							
Type: _								_
Depth (i	inches):		- 				Hydric Soil Pr	esent? Yes X No
Remarks:								
								·
				•				
i								
ı								
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1								
							<u> </u>	



Wetland data point wwio017f_w facing southwest.

Project/Site: ACP		City/C	ounty: Wils	۵۷)	Sampling Date: 7/24/14
Applicant/Owner: Domini	ion	0.13.0		State: NC	_ Sampling Point: Wwid 017_ U
Investigator(s): ESI - J	Reaton	Socia	n Tournshin Do	ngo: M/A	_ camping . on a
investigator(s):	1011111	Section	ni, rownsiip, ica	11ge (\)/(\)	vℓ Slope (%): <u>0 − 2</u>
Landform (hillslope, terrace, etc.):	NINDIANG	Local	relier (concave, (convex, none): <u>CO べい</u>	9 \/ Siope (%)
Subregion (LRR or MLRA): LX	<u>.R.t.</u>	Lat: <u>/////</u>	12 1	Long:	Datum: W65-198
Are climatic / hydrologic conditions					
Are Vegetation, Soil	, or Hydrology	significantly distur	bed? Are	"Normal Circumstances"	present? Yes X No
Are Vegetation, Soil	, or Hydrology	naturally problema	atic? (if n	eeded, explain any ansv	vers in Remarks.)
SUMMARY OF FINDINGS	- Attach site map	showing san	npling point l	ocations, transect	ts, important features, etc.
Hydrophytic Vegetation Present Hydric Soil Present? Wetland Hydrology Present?	? Yes <u>X</u> Yes Yes	No X No X	Is the Sampled within a Wetla		No
Remarks:					ń
HYDROLOGY					
Wetland Hydrology Indicators);			Secondary Ind	icators (minimum of two required)
Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aeria Water-Stained Leaves (B9)	Aquat	til that apply) tic Fauna (B13) Deposits (B15) (LR ogen Sulfide Odor zed Rhizospheres ence of Reduced Ir nt Iron Reduction i Muck Surface (C7) r (Explain in Rema	(C1) along Living Roo on (C4) n Tilled Soils (C6	Sparsely \ Drainage Moss Trin ts (C3) Dry-Seas Crayfish B Saturation Geomorp Shallow A	oil Cracks (B6) Vegetated Concave Surface (B8) Patterns (B10) In Lines (B16) In Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) In Position (D2) Aquitard (D3) Itral Test (D5) Im moss (D8) (LRR T, U)
Field Observations:			NA		
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (streat	Yes No _X Yes No _X	• • • •	720	Netland Hydrology Pre	esent? Yes NoX
,					
Remarks:				ŧ	

VEGETATION	(Four Strata) – Us	se scientific	names	of plants
------------	--------------	--------	---------------	-------	-----------

ESETATION (Four otrata) - Ose scientino			Indicator	Deminance Test workshoot:		
Tree Stratum (Plot size: 30 x 30	% Cover	Dominant Species?		Dominance Test worksheet:		1
1. Liquidambar Styracitlya	· 25	Y	PAT	Number of Dominant Species That Are OBL, FACW, or FAC: _	පි	_ (A)
2. Lifiodendron tolloitera	35	<u> </u>	PYCH	THAT AIR OBE, I MOTE, OF I MO.		- 19
		\		Total Number of Dominant	In .	
3. Krinus scrotina	<u>·· </u>		PACW	Species Across All Strata:	10	_ (B)
4				Barrant of Barringut Charles		
5			ì	Percent of Dominant Species That Are OBL, FACW, or FAC: _	80	(A/B)
				THAT ALE OBE, I ACTO, OIT AC.		~ ((())
3				Prevalence Index worksheet:		
7					Multiply by:	
3			. ———			
	75_	= Total Co	ver _	OBL species x 1		
50% of total cover:	37.5 20% of	total cover	r: 15	FACW species x 2	=	
Sapling/Shrub Stratum (Plot size: 15×15)		*****		FAC species x 3	=	!
Saping/Shrub Stratum (Plot size:)	15	S.	5004	FACU species x 4	=	
1. Tlex Ooala		1	. PML	UPL species x 5		
2. Queras nigra	10	<u>Y</u>	PAC			
3. Linvidenber styraciflic	5 _	W	PM	Column Totals: (A)		(D)
4. Linustrum sinemse		\overline{V}	PAC	5 . /		
-				Prevalence Index = B/A =		
5				Hydrophytic Vegetation Indicate	ors:	
6			- !	Rapid Test for Hydrophyti	c Vegetation	
7				2 - Dominance Test is >50%		
8			_	3 - Prevalence Index is ≤3.01		
·	- 34	= Total Co		\ =		. 1 . 2
		_	_	Problematic Hydrophytic Veg	jetation' (Exp	olain)
50% of total cover:	<u>1 110</u> 20% o	if total cove	er:			
Herb Stratum (Plot size: 5 x 5)	•			¹ Indicators of hydric soil and wetl-	and hydrolog	y must
1 Acrostopado minostro	10	Y	PACW	be present, unless disturbed or p	roblematic.	•
2 Rubys Grantis		7	PAC	Definitions of Four Vegetation	Strata:	
2. Kubus argutus		· 		Deminions of Four Togotation	0	
3		- 		Tree - Woody plants, excluding	vines, 3 in. (7	7.6 cm) or
4				more in diameter at breast heigh	t (DBH), rega	ardless of
5				height.		
				D	analmatica	oon loon
6				Sapling/Shrub – Woody plants, than 3 in. DBH and greater than		
7				than 5 in. Don't and greater than	5.20 it (1 iii)	ton.
8				Herb - All herbaceous (non-woo	ody) plants, re	egardless
9				of size, and woody plants less th		
10.				1		00 # :
				Woody vine - All woody vines g	reater than a	3.28 π in
11.				height.		
12			_′	.		
	15	_ = Total C	Cover			
50% of total cover:	7.5 20%	- of total cov	_			
~ .1.1		,5(0)		-		
	• -	\ <u>`</u>				
1. Smilex roundifolia			_ <u> </u>	.		
2. Vitis cotumislia		<u> </u>	<u> </u>	_		
3. Parthchocissus guinquesolia	5	1	PACU	.		
3.				-		
4				-]		
5				- Hydrophytic	,	
	10	= Total (Cover	Vegetation /		
50% of total cover:	\/7 20%	of total co	vor. 4	Present? Yes	No	_
		- Color CO		-		
Remarks: (If observed, list morphological adaptatio	ns below).					
,						
!						
1						

rofile Desc Depth	Matrix		Re	lox Feature	s						
inches)	Color (moist)	%	Color (moist)	%		Loc ²	Texture	<u> </u>	Rem	<u>arks</u>	
0-4	(0y R3/3	100			·		10,				
1-16	2.544/3	100			- .		Sails.				
6-20	2.543/2	100					Sa.16.				
			•	· 	<u> </u>						
	<u> </u>		<u> </u>								
		- -	-	-							
								-			
Type: C=C	oncentration, D=De	oletion. RM=	Reduced Matrix.	MS=Maske	d Sand Gra	ins.	² Locati		ore Lining, N	—————————————————————————————————————	_
Histoso Histic E Black H Hydrogo Stratifie Organic 5 cm M Muck P 1 cm M Deplete Thick D Coast F Sandy	pipedon (A2) listic (A3) en Sulfide (A4) d Layers (A5) c Bodies (A6) (LRR I ucky Mineral (A7) (L resence (A8) (LRR P, T) d Below Dark Surfa bark Surface (A12) Prairie Redox (A16) Mucky Mineral (S1) Gleyed Matrix (S4)	P, T, U) LRR P, T, U) U) ce (A11)	Polyvalue Thin Dark Loamy Mu Loamy Gl Depleted Redox Da Depleted Redox De Marl (F10 Depleted Iron-Mang Umbric Si Delta Och	Below Surfa Surface (SS surface (SS surface) Matrix Matrix (F3) rk Surface (Dark Surface) pressions (I of (LRR U) Ochric (F11) panese Mas urface (F13) uric (F17) (N Vertic (F18)	ace (S8) (LI 9) (LRR S, ' (F1) (LRR (F2) F6) e (F7) F8)) (MLRA 19 ses (F12) (' (LRR P, T	T, U) O) 51) LRR O, P,	J) 1 c c c c c c c c c c c c c c c c c c	m Muck (Am Muck (Am Muck (Aduced Veredmont Floor omalous BmLRA 153 and Parent Mary Shallowher (Explain micators of wetland h	oblematic has (LRR O) (LRR O) (LRR O) (LRR O) (LRR S) (ou odplain Soil bright Loamy BB) Material (TF2) Dark Surfain in Remark of hydrophydydrology musturbed or pi) atside MLF s (F19) (LF r Soils (F20 2) ce (TF12) ks) lic vegetati ust be pres	RA 150A, RR P, S,)) on and ent,
] Strippe	Redox (S5) d Matrix (S6)	C T 10		Floodplain is Bright Lo	Soils (F19) amy Soils (•	-	53C, 153E))		
Strippe Dark S						•	RA 149A, 1				
Strippe Dark S Restrictive Type: Depth (i	d Matrix (S6) urface (S7) (LRR P,	i):				•	RA 149A, 1		ent? Yes	<u></u>	No_>
Strippe Dark S Restrictive Type: Depth (i	d Matrix (S6) urface (S7) (LRR P, Layer (if observed	i):				•	RA 149A, 1				No
Strippe Dark S Restrictive Type: Depth (i	d Matrix (S6) urface (S7) (LRR P, Layer (if observed	i):				•	RA 149A, 1			The state of the s	No_>
Strippe Dark S Restrictive Type: Depth (i	d Matrix (S6) urface (S7) (LRR P, Layer (if observed	i):				•	RA 149A, 1			and the second s	No_X
Strippe Dark S Restrictive Type: Depth (i	d Matrix (S6) urface (S7) (LRR P, Layer (if observed	i):				•	RA 149A, 1			The state of the s	No
Strippe Dark S Restrictive Type: Depth (i	ed Matrix (S6) urface (S7) (LRR P, Layer (if observed	i):				•	RA 149A, 1			The state of the s	No ×
Strippe Dark S Restrictive Type: Depth (i	ed Matrix (S6) urface (S7) (LRR P, Layer (if observed	i):				•	RA 149A, 1			The second secon	No ×
Strippe Dark S Restrictive Type: Depth (i	ed Matrix (S6) urface (S7) (LRR P, Layer (if observed	i):				•	RA 149A, 1			The state of the s	No ×
Strippe Dark S Restrictive Type: Depth (i	ed Matrix (S6) urface (S7) (LRR P, Layer (if observed	i):				•	RA 149A, 1			No. of the second secon	No ×
Strippe Dark S Restrictive Type: Depth (i	ed Matrix (S6) urface (S7) (LRR P, Layer (if observed	i):				•	RA 149A, 1			We will be a second of the sec	No_×
Strippe Dark S Restrictive Type: Depth (i	ed Matrix (S6) urface (S7) (LRR P, Layer (if observed	i):				•	RA 149A, 1			The state of the s	No ×
Strippe Dark S Restrictive Type: Depth (i	ed Matrix (S6) urface (S7) (LRR P, Layer (if observed	i):				•	RA 149A, 1			The second secon	No_X
Strippe Dark S Restrictive Type: Depth (i	ed Matrix (S6) urface (S7) (LRR P, Layer (if observed	i):				•	RA 149A, 1			The Control of the Co	No ×
Strippe Dark S Restrictive Type: Depth (i	ed Matrix (S6) urface (S7) (LRR P, Layer (if observed	i):				•	RA 149A, 1			The state of the s	No_X
Strippe Dark S Restrictive Type: Depth (i	ed Matrix (S6) urface (S7) (LRR P, Layer (if observed	i):				•	RA 149A, 1			The second secon	No_X
Strippe Dark S Restrictive Type: Depth (i	ed Matrix (S6) urface (S7) (LRR P, Layer (if observed	i):				•	RA 149A, 1			The second secon	No ×
Strippe Dark S Restrictive Type:	ed Matrix (S6) urface (S7) (LRR P, Layer (if observed	i):				•	RA 149A, 1			The state of the s	No_X
Strippe Dark S Restrictive Type: Depth (i	ed Matrix (S6) urface (S7) (LRR P, Layer (if observed	i):				•	RA 149A, 1			The second secon	No ×
Strippe Dark S Restrictive Type: Depth (i	ed Matrix (S6) urface (S7) (LRR P, Layer (if observed	i):				•	RA 149A, 1				No ×
Strippe Dark S Restrictive Type: Depth (i	ed Matrix (S6) urface (S7) (LRR P, Layer (if observed	i):				•	RA 149A, 1			The Control of the Co	No ×



Upland data point wwio017_u facing northeast.

Project/Site: ACP	City/County: Wilson Co. Sampling Date: 7/2/14
Applicant/Owner: Dominion	State: NC Sampling Point: www.a.001 5 _ v
Investigator(s): ESI - Kmarkhan / J. Benton	
Landform (hillslope, terrace, etc.): Floodplain	Local relief (concave, convex, none): Concave Slope (%): 6-2
Subregion (LRR or MLRA): LRR P Lat: 35.	75528 N Long: 76,0546 W Datum: W65-1486
·	
Are climatic / hydrologic conditions on the site typical for this time of y	
Are Vegetation, Soil, or Hydrology significantly	y disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally pr	roblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: Yes No Yes No	
PSS wetland data point.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required: check all that apply	
Surface Water (A1)	57 I
High Water Table (A2) Saturation (A3) Hydrogen Sulfide	
	oheres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Red	
Drift Deposits (B3)	uction in Tilled Soils (C6)
Algal Mat or Crust (B4) Thin Muck Surface	
Iron Deposits (B5)	Remarks)
Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	gg oping.iam.ness (25) (2.m. 1) c)
Surface Water Present? Yes NoX_ Depth (inche	es):
Water Table Present? Yes X No Depth (inche	
Saturation Present? Yes X No Depth (inches	es): Wetland Hydrology Present? Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial pho	otos, previous inspections), if available:
Remarks:	
The hydrologic criterion has	beca met
Y Su sitta in the	

Sampling Point: WW100015_W

	Absoluto	Dominant	Indiantar	Dominana Taat waakabaat
Tree Stratum (Plot size: 30 x 30		Dominant Species?		Dominance Test worksheet:
				Number of Dominant Species That Are OBL, FACW, or FAC:
1				That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Total Number of Dominant Species Across All Strata: (B)
4				· · · · · · · · · · · · · · · · · · ·
				Percent of Dominant Species 100
5				That Are OBL, FACW, or FAC: (A/B)
6				David and the latest
7				Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
0		T. C. L. C.		OBL species x1 =
_		= Total Co	_	FACW species x 2 =
50% of total cover:O	20% o	f total cover	r: <u> </u>	
Sapling/Shrub Stratum (Plot size: 15 × 15)				FAC species x 3 =
1. Rubus argutus	80	V	FAC	FACU species x 4 =
		-/,	FACW	UPL species x 5 =
2. Clethra alnifolia	0	. <u>_</u> .		1
3. Liquidamber Styracifua	5	. <u>N</u>	FAC	Column Totals: (A) (B)
4. Baccharis halimitalia	5	N	FAC	Danielana Indan DIA
	. _ ~			Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6			. 	1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
				1 -
8				3 - Prevalence Index is ≤3.0¹
		= Total Co		Problematic Hydrophytic Vegetation (Explain)
50% of total cover: 50	20% c	of total cove	r: 25	
Herb Stratum (Plot size: 5 x 5)				
ľ				¹Indicators of hydric soil and wetland hydrology must
1				be present, unless disturbed or problematic.
2				Definitions of Four Vegetation Strata:
				·
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6				Capling Chart Mandy along availating since loss
				Sapling/Shrub - Woody plants, excluding vines, less
7	·			than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb - All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
				, pand not many and many
10				Woody vine – All woody vines greater than 3.28 ft in
11		-	_	height.
12.				
	ð	T.(.) 0		"]
_		_ = Total C		
50% of total cover:0	20%	of total cove	er:	-
Woody Vine Stratum (Plot size: 30 × 30)				
1. Smilex Cotundifolia	10	M	1-1	
		- - /	- <u>- FW</u> -	-
2. Vitts rotundifolia	_ (0	_ —}	FAC	-
3		′		_
				- [
4				-
5		_		- Hydrophytic
	20	_ = Total C	over	Vegetation
50% of total cover: 10			1.	Present? Yes No No
		OLIOIAI COV	CI	-
Remarks: (If observed, list morphological adaptations be	low).			
De hold 6				,
The hydrophytic vegetation	n cri	tenon	has be	cen net.
1	1			
1	, -,,	•		
	, -,,	•		
		•		
	, ,,	•		
		•		

Profile Desc	ription: (Describe	to the dep	th needed to docur	nent the i	ndicator	or confirm	the absence of in	dicators.)
Depth (inches)	Matrix Color (moist)	<u></u>	Color (moist)	x Feature %	s Type ¹	Loc ²	Texture	Remarks
0.8	(0 yR 3/2	100	Color (moist)		Type	1.00	5a/o.	Remarks
8-12	10-1R 4/2	15	7.54K3/3	5	·	<u>M</u>	5a/0	
12-20	101R4/2	90	104R4/2	lo	<u></u>	M	10.59.	
	101. 72		10 10		. _		1015(-	
			·	-				·
¹Type: C=C	oncentration, D=De	pletion, RM	=Reduced Matrix, M	S=Masker	d Sand Gr	ains.	² Location: PL=	Pore Lining, M=Matrix.
Histosol Histic E Black H Hydroge Stratifie Organic 5 cm Me Muck P 1 cm Me Deplete Thick D Coast F Sandy M Sandy M	• • • •	P, T, U) LRR P, T, U U) ce (A11)	Redox Depri Marl (F10) (I Depleted Oc Iron-Mangar Umbric Surfi	elow Surface (S9 sy Mineral ed Matrix (F3) Surface (ink Surface (ERR U) chric (F11) nese Massace (F13) (Mertic (F18)	(KER S, (LE) (LER S, (F1) (LER (F2) (F2) (MLRA 1) (MLRA 1) (LER P, 1) (MLRA 151) (MLRA 1:	T, U) 51) (LRR O, P 7, U) 50A, 150B	1 cm Muck 2 cm Muck Reduced V Piedmont F Anomalous (MLRA 1: Red Parent Very Shallo Other (Exp	Problematic Hydric Soils ³ : (A9) (LRR O) (A10) (LRR S) ertic (F18) (outside MLRA 150A,B) Floodplain Soils (F19) (LRR P, S, T) Bright Loamy Soils (F20) 53B) t Material (TF2) bw Dark Surface (TF12) lain in Remarks) s of hydrophytic vegetation and hydrology must be present, disturbed or problematic.
Stripped Dark Strictive	d Matrix (S6) urface (S7) (LRR P, Layer (if observed			-		-	RA 149A, 153C, 153	3D)
Type: Depth (ir	nches):						Hydric Soil Pre	sent? Yes_X_ No
Remarks:								
7	he hydric	soil cr	iterion has	becn 1	net,			·
1								



Wetland data point wwio001s_w facing east.

Project/Site: ACP Cit	y/County: Wilson Co. Sampling Date: 7/2/14
Applicant/Owner: Dominion	State: NC Sampling Point: Wwio O(+-W
Investigator(s): ESI - KMarkham / J. Benton se	
Landform (hillslope, terrace, etc.): Flood planh Lor	cal relief (concave, convex, none): ConCav C Slope (%): 0 - Z
Subregion (LRR or MLRA): LRR P Lat: 35. 7	cal relief (concave, convex, none): Slope (%): _O - Z
Soil Map Unit Name: ToiSno+ loam	NWI classification: PFO
Are climatic / hydrologic conditions on the site typical for this time of year?	
Are Vegetation, Soil, or Hydrology significantly dis	
Are Vegetation, Soil, or Hydrology naturally proble	
	ampling point locations, transects, important features, etc.
,	amping point locations, transcots, important reatures, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Wetland Hydrology Present? Yes X No Yes X No	within a Wetland? Yes No
Wetland Hydrology Present? Yes _X No	
PFO wetland data point.	
·	
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)	Sparsely Vegetated Concave Surface (B8)
Marl Deposits (B15) (I	
Saturation (A3) Hydrogen Sulfide Odd	or (C1)
☐ Water Marks (B1) ☐ Oxidized Rhizosphere ☐ Sediment Deposits (B2) ☐ Presence of Reduced	
Drift Deposits (B3) Recent Iron Reduction	
Algal Mat or Crust (B4) Thin Muck Surface (C	
☐ Iron Deposits (B5) ☐ Other (Explain in Ren	narks)
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations: Surface Water Present? Yes No _X Depth (inches): _	NK
Water Table Present? Yes X No Depth (inches):	
Saturation Present? Yes X No Depth (inches):	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos,	previous inspections), if available:
Remarks:	-
The half for sit	
The hydrologic Criterion has be	en met.
1	

Tree Stratum (Plot size: 30 x 30)		Dominant		Dominance Test worksheet:	
Tiee Stratum (Flot size.		Species?		Number of Dominant Species That Are OBL_FACW_or FAC: (A)	
	40	7	+ACV	That Are OBL, FACW, or FAC: (A))
2. Liquidamen Styracifly	10	<u>-N</u>	HC	Total Number of Dominant	
3. Acer Nobrum	10		FAC	Species Across All Strata: (B))
4				Percent of Dominant Species	ł
5				That Are OBL, FACW, or FAC: 83 (A	/B)
6				Prevalence Index worksheet:	
7					
8					
		= Total Cov		OBL species x 1 =	
50% of total cover: 30	20% of	total cover	: <u> </u>	FACW species x 2 =	
Sapling/Shrub Stratum (Plot size: 15 × 15)			_	FAC species x 3 =	
1. Pinus treda	20	<u> </u>	<u>FAC</u>	FACU species x 4 =	i
2. Maznolia virginiana	15	<u> </u>	FACW	UPL species x 5 =	
3. <u>Ligustrum sinense</u>	10	<u> </u>	FAC	Column Totals: (A) (i	B)
4. Ilex opaca	_5	_ Ń	FAC	Prevalence Index = B/A =	
5				Hydrophytic Vegetation Indicators:	
6.				1 - Rapid Test for Hydrophytic Vegetation	1
7					
8.				2 - Dominance Test is >50%	
	50	= Total Cov		☐ 3 - Prevalence Index is ≤3.0¹	l
50% of total cover: 25				Problematic Hydrophytic Vegetation ¹ (Explain)	
Herb Stratum (Plot size: 5 x 5)	20 % 01	total cover			
	70	4	OBL	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	t
2. Osmunda strum Cinnamomeum	10	7	FACW		
	•			Definitions of Four Vegetation Strata:	
3				Tree - Woody plants, excluding vines, 3 in. (7.6 cm)	
4				more in diameter at breast height (DBH), regardless	of
5				height.	ŀ
6				Sapling/Shrub - Woody plants, excluding vines, les	ss
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.	
8				Herb - All herbaceous (non-woody) plants, regardle	ss
9				of size, and woody plants less than 3.28 ft tall.	İ
10				Woody vine - All woody vines greater than 3.28 ft in	n I
11				height.	"
12					
	<u>80</u>	= Total Cov	ver_		
50% of total cover: <u>Ψ</u> ο	20% of	total cover	: <u>16</u>		
Woody Vine Stratum (Plot size: ろっょ 30)					
1. Vitis rotundidolia	_5	7	FAR		
2					
3					
4.					
5.				Handra who die	
		= Total Co		Hydrophytic Vegetation	
50% of total cover: 2.5		f total cover		Present? Yes No No	ļ
Remarks: (If observed, list morphological adaptations belo		total cover	<u>· </u>		
Remarks. (ii observed, list morphological adaptations belo	w).				
Hadrack dir					
Hydrophytic vegetation criteri	on has	been	met	•	

Depth	Matrix			x Feature				
(inches)	Color (moist)	%	Color (moist)	<u> %_</u>	_Type ¹	Loc ²	Texture	Remarks
<u>5-8</u> _	10/R 3/2	106	75.05	<u> </u>			Sailo.	
B - 12	104R4/2	<u>95</u>	7.54R3/3	_ <u>5</u>		<u> </u>	salo.	
12-20	104R4/2	90	loyR 5/2	10	_D	M	59.10.	
Fype: C=C ydric Soil Histoso Histic E Black H Hydrog Stratifie Organic 5 cm M Muck P 1 cm M Deplete Thick D Coast F Sandy	oncentration, D=De	pletion, RM cable to all P, T, U) RR P, T, U J)	=Reduced Matrix, Miles othe	S=Masker rwise not elow Surfa urface (S9 xy Mineral ed Matrix ftrix (F3) Surface (I rk Surface essions (F LRR U) chric (F11) nese Mass ace (F13) c (F17) (Mi rtic (F18)	Sand Gred.) Ice (S8) (L) (LRR S, (F1) (LRF (F2) (MLRA 1 (LRR P, T LRA 151) (MLRA 151)	ains. RR S, T, T, U) R O) 51) (LRR O, P	2Location: P Indicators for U) 1 cm Mu 2 cm Mu 2 cm Mu Reduced Piedmon Anomalo (MLRA Uery Sha Other (E	L=Pore Lining, M=Matrix. or Problematic Hydric Soils³: ck (A9) (LRR O) ck (A10) (LRR S) I Vertic (F18) (outside MLRA 150A,B at Floodplain Soils (F19) (LRR P, S, T) aus Bright Loamy Soils (F20) a 153B) ent Material (TF2) allow Dark Surface (TF12) xplain in Remarks) ors of hydrophytic vegetation and and hydrology must be present, s disturbed or problematic.
Strippe Dark Stestrictive	d Matrix (S6) urface (S7) (LRR P, Layer (if observed						RA 149A, 153C, 1	(53D)
Type: Depth (ir	nches);						Hydric Soil P	resent? Yes X No
•	The hydric	5-1	criterion h	as bea	≥a m	e+·		



Wetland data point wwio001f_w facing east.

Project/Site: ACP	City/County: Wilson Co. Sampling Date: 7/2/14
Applicant/Owner: Do Minion	State: NC Sampling Point: Www's 001-5
Investigator(s): ESI - KMarkham / J. Benton	
Landform (hillslone terrace etc.): hills/ope	l ocal relief (concave convex none). (SOVEX Slope (%): D-Z
Contraction (IRR or MIRAL) LRRP	Local relief (concave, convex, none): Convex Slope (%): 0-2 75524 N Long: 78.05405 W Datum: W6S-1484
Soil Map Unit Name: Tojsnot loam	NWI classification: \(\frac{\lambda/A}{\} \)
Are climatic / hydrologic conditions on the site typical for this time of y	
Are Vegetation, Soil, or Hydrology significantly	
Are Vegetation, Soil, or Hydrology naturally processed in the second	oblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	
Hydric Soil Present? Yes Y No	Is the Sampled Area
Hydric Soil Present? Wetland Hydrology Present? Yes No No No X	within a Wetland? YesNoX
Remarks:	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply	Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B	——————————————————————————————————————
High Water Table (A2) Marl Deposits (B	
Saturation (A3) Hydrogen Sulfide	Odor (C1) Moss Trim Lines (B16)
☐ Water Marks (B1) ☐ Oxidized Rhizosp	heres along Living Roots (C3) La Dry-Season Water Table (C2)
Sediment Deposits (B2)	
	uction in Tilled Soils (C6)
Algal Mat or Crust (B4) Thin Muck Surface	· · · · · · · · · · · · · · · · · · ·
☐ Iron Deposits (B5) ☐ Other (Explain in Inundation Visible on Aerial Imagery (B7)	Remarks)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No _X Depth (inche	es): NA
Water Table Present? Yes No Depth (inche	es): 720
Saturation Present? Yes X No Depth (inche	
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial pho	
Describe Recorded Data (stream gauge, monitoring well, aerial pri	nos, previous inspections), il available.
Remarks:	
The hydrologic Criterion has ,	10t been met.

1/4.

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

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 x 30)		Species?		Number of Deminent Consise
1				Number of Dominant Species That Are OBL, FACW, or FAC: (A)
		-		MacAic OBE, FAON, 61 FAO
2				Total Number of Dominant Species Across All Strata: (B)
3				Species Across All Strata: T (B)
4				Persont of Deminant Cassian
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6.				machie obe, i how, of tho:
				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8				OBL species x1 =
		= Total Cov	/er	
50% of total cover: O	20% of	f total cover	: 0	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 15 x 15	_			FAC species x 3 =
1. Liriodendron tulipitera	10	Ν	FACU	FACU species x 4 =
1. Little Co. Cl	10			UPL species x 5 =
2. Liquidamber Styracthra	25	<u> 4</u>	+xc	
3. Rubus argutus'	65	7	<u>FAC</u>	Column Totals: (A) (B)
4		•		Dravelense Index - B/A -
				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.01
	00	= Total Co	ver	1
50% of total cover: 50		_ 10(a1 00	20	Problematic Hydrophytic Vegetation¹ (Explain)
	20% 0	t total cover		
Herb Stratum (Plot size: 5 × 5)				Indicators of hydric soil and wetland hydrology must
1				be present, unless disturbed or problematic.
2				Definitions of Four Vegetation Strata:
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub - Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb - All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine - All woody vines greater than 3.28 ft in
11				height.
12.				
12.		T 1.10	·	·]
F00/ of total		_= Total Co		
50% of total cover:	20% (of total cove	er:	. \
Woody Vine Stratum (Plot size: 30 x 30)			_	
1. Vitis rotundifolia	10	Y	FAC	
	10	- 	FAC	- }
2				-
3				-
4			_	-
5				- Hydrophytic
	20	= Total Co	over	Vegetation
50% of total cover:				Present? Yes X No
		OI total cove	er	-
Remarks: (If observed, list morphological adaptations beli	ow).			
The hydrophytic Vegetation	Criteri	on has	heen	met,
			~	•
1				

Depth (inches)	Matrix	•		x Feature			n the absence		··· /	
(inches)	Color (moist)	%	Color (moist)	<u> </u>	Type ¹	Loc ²	Texture		Remarks	
0-6	104R 3/2	100			. <u></u>		59.10.	unwated	sand grains	
6-9	LOYR4/1	100					Sa.10.		•	
9-20	10185/2	95	7.54R33	5	C	Μ	50.10.			
										
										
					. ——					
			-		· ——					
							2,			
			Reduced Matrix, MS LRRs, unless other			ains.			ing, M=Matrix. atic Hydric Soils³:	
Histosol		cable to all	Polyvalue Be			RRS T	 1	Muck (A9) (LR	•	
	oipedon (A2)		Thin Dark Su					wuck (Аз) (LN Muck (А10) (L		
	stic (A3)		Loamy Muck						8) (outside MLRA 15	(0A,B
	en Sulfide (A4)		Loamy Gleye		(F2)				n Soils (F19) (LRR P,	S, T)
	d Layers (A5)		Depleted Ma	. ,	-01				oamy Soils (F20)	
	Bodies (A6) (LRR I ucky Mineral (A7) (L		Redox Dark S		•		1 1 '	RA 153B) Parent Materia	I /TE2\	
	esence (A8) (LRR		Redox Depre						Surface (TF12)	
_	ıck (A9) (LRR P, T)	-	Marl (F10) (L		•			(Explain in Re		
= :	d Below Dark Surfa	ce (A11)	Depleted Oc							
=	ark Surface (A12)		Iron-Mangan				•	_	ophytic vegetation an	ıd
_	rairie Redox (A16) /lucky Mineral (S1)	•	A) Umbric Surfa Delta Ochric		•	, U)			gy must be present, For problematic.	
	Sleyed Matrix (S4)	(LKK 0, 3)	Reduced Ve			50A. 150E		icss distuibed	or problematic.	
	Redox (S5)		Piedmont Flo							
Stripped	i Matrix (S6)		Anomalous E	Bright Loa	my Soils	F20) (ML	RA 149A, 1530	C, 153D)		
	rface (S7) (LRR P,						1			
_	Layer (if observed):								
Type:							11	11.D	Yes X No_	**
Depth (ir	cnes):						нуапс 50	II Present?	1es / NO_	
Remarks:										
72	e hydric	soil co	iterian has		met					
R	le hydric	soil cr	iterian has l	oeen "	met.					
72	e hydric	soil cr	iterion has h	oeen '	met.					
72	e hydric	soil cr	iterion has h	oeen '	met.					
72	e hydric	soil er	iterion has l	oeen 1	met.					
T	e hydric	soil cr	iterion has h	oeen '	met,					
72	e hydric	soil cr	iterion has a	oeen '	met.					
72	e hydric	soil cr	iterion has h	oeen '	met,					
72	e hydric	soil cr	iterion has l	oeen '	met.					
72	e hydric	soil cr	iterion has l	oeen T	met.					
72	e hydric	soil er	iterion has a	olen T	met.					
T	e hydric	soil cr	iterion has h	oeen '	met.					
T	e hydric	soil cr	iterian has h	olen T	met.					
T	e hydric	soil cr	iterion has l	olen T	met.					
T	e hydric	soil cr	iterion has l	olen T	met.					
T	e hydric	soil cr	iterion has h	olen T	met.					
T	e hydric	soil cr	iterion has h	olen T	met.					
T	le hydric	soil cr	iterion has l	olen T	met.					
12	le hydric	soil cr	iterion has l	olen T	met.					
T	le hydric	soil cr	iterion has l	olen T	met.					



Upland data point wwio001_u facing west.

Project/Site: ACP	City/County: Wilson Co. Sampling Date: 7/2/14
Applicant/Owner: Dominion	State: NC Sampling Point: www.a.001 5 _ v
Investigator(s): ESI - Kmarkhan / J. Benton	
Landform (hillslope, terrace, etc.): Floodplain	Local relief (concave, convex, none): Concave Slope (%): 6-2
Subregion (LRR or MLRA): LRR P Lat: 35.	75528 N Long: 76,0546 W Datum: W65-1486
·	
Are climatic / hydrologic conditions on the site typical for this time of y	
Are Vegetation, Soil, or Hydrology significantly	y disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally pr	roblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: Yes No Yes No	
PSS wetland data point.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required: check all that apply	
Surface Water (A1)	57 I
High Water Table (A2) Saturation (A3) Hydrogen Sulfide	
	oheres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Red	
Drift Deposits (B3)	uction in Tilled Soils (C6)
Algal Mat or Crust (B4) Thin Muck Surface	
Iron Deposits (B5)	Remarks)
Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	gg oping.iam.ness (25) (2.m. 1) c)
Surface Water Present? Yes NoX_ Depth (inche	es):
Water Table Present? Yes X No Depth (inche	
Saturation Present? Yes X No Depth (inches	es): Wetland Hydrology Present? Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial pho	otos, previous inspections), if available:
Remarks:	
The hydrologic criterion has	beca met
Y Su sitta in the	
	•

Sampling Point: WW100015_W

	Absoluto	Dominant	Indiantar	Dominana Taat waakabaat
Tree Stratum (Plot size: 30 x 30		Dominant Species?		Dominance Test worksheet:
				Number of Dominant Species That Are OBL, FACW, or FAC:
1				That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Total Number of Dominant Species Across All Strata: (B)
4				· · · · · · · · · · · · · · · · · · ·
				Percent of Dominant Species 100
5				That Are OBL, FACW, or FAC: (A/B)
6				David and the latest
7				Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
0		T. C. L. C.		OBL species x1 =
_		= Total Co	_	FACW species x 2 =
50% of total cover:O	20% o	f total cover	r: <u> </u>	
Sapling/Shrub Stratum (Plot size: 15 × 15)				FAC species x 3 =
1. Rubus argutus	80	V	FAC	FACU species x 4 =
		-/,	FACW	UPL species x 5 =
2. Clethra alnifolia	0	. <u>_</u> .		1
3. Liquidamber Styracifua	5	. <u>N</u>	FAC	Column Totals: (A) (B)
4. Baccharis halimitalia	5	N	FAC	Danielana Indan DIA
	. _ ~			Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6			. 	1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
				1 -
8				3 - Prevalence Index is ≤3.0¹
		= Total Co		Problematic Hydrophytic Vegetation (Explain)
50% of total cover: 50	20% c	of total cove	r: 25	
Herb Stratum (Plot size: 5 x 5)				
ľ				¹Indicators of hydric soil and wetland hydrology must
1				be present, unless disturbed or problematic.
2				Definitions of Four Vegetation Strata:
				·
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6				Capling Chart Mandy along availating since loss
				Sapling/Shrub - Woody plants, excluding vines, less
7	·			than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb - All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
				, pand not many and many
10				Woody vine – All woody vines greater than 3.28 ft in
11		-	_	height.
12.				
	ð	T.(.) 0		"]
_		_ = Total C		
50% of total cover:0	20%	of total cove	er:	-
Woody Vine Stratum (Plot size: 30 × 30)				
1. Smilex Cotundifolia	10	M	1-1	
		- - /	- <u>- FW</u> -	-
2. Vitts rotundifolia	_ (0	_ —}	PAC	-
3		′		_
				- [
4				-
5		_		- Hydrophytic
	20	_ = Total C	over	Vegetation
50% of total cover: 10			1.	Present? Yes No No
		OLIOIAI COV	CI	-
Remarks: (If observed, list morphological adaptations be	low).			
De hold 6				,
The hydrophytic vegetation	n cri	tenon	has be	cen net.
1	1			
1	, -,,	•		
	, -,,	•		
		•		
	, ,,	•		
		•		

Profile Desc	ription: (Describe	to the dep	th needed to docur	nent the i	ndicator	or confirm	the absence of in	dicators.)
Depth (inches)	Matrix Color (moist)	<u></u>	Color (moist)	x Feature %	s Type ¹	Loc ²	Texture	Remarks
0.8	(0 yR 3/2	100	Color (moist)		Type	1.00	5a/o.	Remarks
8-12	10-1R 4/2	15	7.54K3/3	5	·	<u>M</u>	5a/0	
12-20	101R4/2	90	104R4/2	lo	<u></u>	M	10.59.	
	101. 72		10 10		. _		1015(-	
			·	-				·
¹Type: C=C	oncentration, D=De	pletion, RM	=Reduced Matrix, M	S=Masker	d Sand Gr	ains.	² Location: PL=	Pore Lining, M=Matrix.
Histosol Histic E Black H Hydroge Stratifie Organic 5 cm Me Muck P 1 cm Me Deplete Thick D Coast F Sandy M Sandy M	• • • •	P, T, U) LRR P, T, U U) ce (A11)	Redox Depri Marl (F10) (I Depleted Oc Iron-Mangar Umbric Surfi	elow Surface (S9 sy Mineral ed Matrix (F3) Surface (ink Surface (ERR U) chric (F11) nese Massace (F13) (Mertic (F18)	(KER S, (LE) (LER S, (F1) (LER (F2) (F2) (MLRA 1) (MLRA 1) (LER P, 1) (MLRA 151) (MLRA 1:	T, U) 51) (LRR O, P 7, U) 50A, 150B	1 cm Muck 2 cm Muck Reduced V Piedmont F Anomalous (MLRA 1: Red Parent Very Shallo Other (Exp	Problematic Hydric Soils ³ : (A9) (LRR O) (A10) (LRR S) ertic (F18) (outside MLRA 150A,B) Floodplain Soils (F19) (LRR P, S, T) Bright Loamy Soils (F20) 53B) t Material (TF2) bw Dark Surface (TF12) lain in Remarks) s of hydrophytic vegetation and hydrology must be present, disturbed or problematic.
Stripped Dark Strictive	d Matrix (S6) urface (S7) (LRR P, Layer (if observed			-		-	RA 149A, 153C, 153	3D)
Type: Depth (ir	nches):						Hydric Soil Pre	sent? Yes_X_ No
Remarks:								
7	he hydric	soil cr	iterion has	becn 1	net,			·
1								



Wetland data point wwio001s_w facing east.

Project/Site: ACP Cit	y/County: Wilson Co. Sampling Date: 7/2/14
Applicant/Owner: Dominion	State: NC Sampling Point: Wwio O(+-W
Investigator(s): ESI - KMarkham / J. Benton se	
Landform (hillslope, terrace, etc.): Flood planh Lor	cal relief (concave, convex, none): ConCav C Slope (%): 0 - Z
Subregion (LRR or MLRA): LRR P Lat: 35. 7	cal relief (concave, convex, none): Slope (%): _O - Z
Soil Map Unit Name: ToiSno+ loam	NWI classification: PFO
Are climatic / hydrologic conditions on the site typical for this time of year?	
Are Vegetation, Soil, or Hydrology significantly dis	
Are Vegetation, Soil, or Hydrology naturally proble	
	ampling point locations, transects, important features, etc.
,	amping point locations, transcots, important reatures, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Wetland Hydrology Present? Yes X No Yes X No	within a Wetland? Yes No
Wetland Hydrology Present? Yes _X No	
PFO wetland data point.	
·	
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)	Sparsely Vegetated Concave Surface (B8)
Marl Deposits (B15) (I	
Saturation (A3) Hydrogen Sulfide Odd	or (C1)
☐ Water Marks (B1) ☐ Oxidized Rhizosphere ☐ Sediment Deposits (B2) ☐ Presence of Reduced	
Drift Deposits (B3) Recent Iron Reduction	
Algal Mat or Crust (B4) Thin Muck Surface (C	
☐ Iron Deposits (B5) ☐ Other (Explain in Ren	narks)
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations: Surface Water Present? Yes No _X Depth (inches): _	NK
Water Table Present? Yes X No Depth (inches):	
Saturation Present? Yes X No Depth (inches):	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos,	previous inspections), if available:
Remarks:	-
The half for sit	
The hydrologic Criterion has be	en met.
1	

Tree Stratum (Plot size: 30 x 30)		Dominant		Dominance Test worksheet:	
Tiee Stratum (Flot size.		Species?		Number of Dominant Species That Are OBL_FACW_or FAC: (A)	
	40	7	+ACV	That Are OBL, FACW, or FAC: (A))
2. Liquidamen Styracifly	10	<u>-N</u>	HC	Total Number of Dominant	
3. Acer Nobrum	10		FAC	Species Across All Strata: (B))
4				Percent of Dominant Species	ł
5				That Are OBL, FACW, or FAC: 83 (A	/B)
6				Prevalence Index worksheet:	
7					
8					
		= Total Cov		OBL species x 1 =	
50% of total cover: 30	20% of	total cover	: <u> </u>	FACW species x 2 =	
Sapling/Shrub Stratum (Plot size: 15 × 15)			_	FAC species x 3 =	
1. Pinus treda	20	<u> </u>	<u>FAC</u>	FACU species x 4 =	i
2. Magnolia virginiana	15	<u> </u>	FACW	UPL species x 5 =	
3. <u>Ligustrum sinense</u>	10	<u> </u>	FAC	Column Totals: (A) (i	B)
4. Ilex opaca	_5	_ Ń	FAC	Prevalence Index = B/A =	
5				Hydrophytic Vegetation Indicators:	
6.				1 - Rapid Test for Hydrophytic Vegetation	1
7					
8.				2 - Dominance Test is >50%	
	50	= Total Cov		☐ 3 - Prevalence Index is ≤3.0¹	l
50% of total cover: 25				Problematic Hydrophytic Vegetation ¹ (Explain)	
Herb Stratum (Plot size: 5 x 5)	20 % 01	total cover			
	70	4	OBL	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	t
2. Osmunda strum Cinnamomeum	10	7	FACW		
	•			Definitions of Four Vegetation Strata:	
3				Tree - Woody plants, excluding vines, 3 in. (7.6 cm)	
4				more in diameter at breast height (DBH), regardless	of
5				height.	ŀ
6				Sapling/Shrub - Woody plants, excluding vines, les	ss
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.	
8				Herb - All herbaceous (non-woody) plants, regardle	ss
9				of size, and woody plants less than 3.28 ft tall.	İ
10				Woody vine - All woody vines greater than 3.28 ft in	n I
11				height.	"
12					
	<u>80</u>	= Total Cov	ver_		
50% of total cover: <u>Ψ</u> ο	20% of	total cover	: <u>16</u>		
Woody Vine Stratum (Plot size: ろっょ 30)					
1. Vitis rotundidolia	_5	7	FAR		
2					
3					
4.					
5.				Handra who die	
		= Total Co		Hydrophytic Vegetation	
50% of total cover: 2.5		f total cover		Present? Yes No No	ļ
Remarks: (If observed, list morphological adaptations belo		total cover	<u>· </u>		
Remarks. (ii observed, list morphological adaptations belo	w).				
Hadrack dir					
Hydrophytic vegetation criteri	on has	been	met	•	

	•	to the dep				or confir	m the absence of in	dicators.)
Depth (inches)	Matrix Color (moist)	<u></u> %	Color (moist)	x Feature %	_Type ¹	Loc ²	Texture	Remarks
0-8	10 VR 3/2	106					Sailo.	
8-12	104R4/2	95	7.54R3/3	5	<u> </u>	M	Sa.10.	
		90	104R 5/2	10				
12-20	104R 4/2	_ 10_	104K 42		_ <u>D</u>	<u> M</u>	59,10.	
				- 				
	L					· •		
Tyne: C=C	oncentration D=De	nletion RM	=Reduced Matrix, Ma	S=Masker	d Sand Gr	ains	²I ocation: PI =	Pore Lining, M=Matrix.
			LRRs, unless othe					Problematic Hydric Soils ³ :
Histoso	I (A1)		Polyvalue Be	elow Surfa	ice (S8) (I	RR S, T,	U)	(A9) (LRR O)
Histic E	pipedon (A2)		Thin Dark St					(A10) (LRR S)
	istic (A3)		Loamy Muck	-		₹ 0)	Reduced Ve	ertic (F18) (outside MLRA 150A,B)
_ ` `	en Sulfide (A4)		Loamy Gleye		(F2)			loodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)	D T III	Depleted Ma		E6)			Bright Loamy Soils (F20)
= -	: Bodies (A6) (LRR I ucky Mineral (A7) (L		Redox Dark Depleted Da	•	•		(MLRA 19	Material (TF2)
	resence (A8) (LRR		Redox Depre		- •			w Dark Surface (TF12)
	uck (A9) (LRR P, T)		☐ Mari (F10) (I	•	,			ain in Remarks)
=	d Below Dark Surfa		Depleted Oc	-	(MLRA 1	51)	, ,	,
=	ark Surface (A12)		☐ Iron-Mangar			-	-	of hydrophytic vegetation and
	rairie Redox (A16) (-	· —		•	•		hydrology must be present,
	Mucky Mineral (S1)	(LRR O, \$)						isturbed or problematic.
	Gleyed Matrix (S4)		Reduced Ve					
_	Redox (S5) d Matrix (S6)						149A) RA 149A, 153C, 153	מא
	urface (S7) (LRR P,	S, T, U)		D. 19.11 200		. 20) (2	1171 1-1071, 1000, 100	,,,,
	Layer (if observed							
Туре:								
Depth (ir	iches):						Hydric Soil Pres	sent? Yes X No
Remarks:								
_	-n , .	s 1						
_	The hydric	5-1	criterion h	as bec	20 M	et.	•	
							,	
		•						
								·



Wetland data point wwio001f_w facing east.

Project/Site: ACP	City/County: Wilson Co. Sampling Date: 7/2/14
Applicant/Owner: Do Minion	State: NC Sampling Point: Www's 001-5
Investigator(s): ESI - KMarkham /J. Benton	
Landform (hillslone terrace etc.): hills/ope	l ocal relief (concave convex none). (SOVEX Slope (%): D-Z
Contraction (IRR or MIRAL) LRRP	Local relief (concave, convex, none): Convex Slope (%): 0-2 75524 N Long: 78.05405 W Datum: W6S-1484
Soil Map Unit Name: Tojsnot loam	NWI classification: \(\frac{\lambda/A}{\} \)
Are climatic / hydrologic conditions on the site typical for this time of y	
Are Vegetation, Soil, or Hydrology significantly	
Are Vegetation, Soil, or Hydrology naturally processed in the second	oblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	
Hydric Soil Present? Yes Y No	Is the Sampled Area
Hydric Soil Present? Wetland Hydrology Present? Yes No No No X	within a Wetland? YesNoX
Remarks:	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply	Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B	——————————————————————————————————————
High Water Table (A2) Marl Deposits (B	
Saturation (A3) Hydrogen Sulfide	Odor (C1) Moss Trim Lines (B16)
☐ Water Marks (B1) ☐ Oxidized Rhizosp	heres along Living Roots (C3) La Dry-Season Water Table (C2)
Sediment Deposits (B2)	
	uction in Tilled Soils (C6)
Algal Mat or Crust (B4) Thin Muck Surface	· · · · · · · · · · · · · · · · · · ·
☐ Iron Deposits (B5) ☐ Other (Explain in Inundation Visible on Aerial Imagery (B7)	Remarks)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No _X Depth (inche	es): NA
Water Table Present? Yes No Depth (inche	es): 720
Saturation Present? Yes X No Depth (inche	
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial pho	
Describe Recorded Data (stream gauge, monitoring well, aerial pin	nos, previous inspections), il available.
Remarks:	
The hydrologic Criterion has ,	10t been met.

1/4.

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

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 x 30)		Species?		Number of Deminent Consise
1				Number of Dominant Species That Are OBL, FACW, or FAC: (A)
		-		MacAic OBE, FAON, 61 FAO
2				Total Number of Dominant Species Across All Strata: (B)
3				Species Across All Strata: T (B)
4				Persont of Deminant Cassian
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6.				machie obe, i how, of tho:
				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8				OBL species x1 =
		= Total Cov	/er	
50% of total cover: O	20% of	f total cover	: 0	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 15 x 15	_			FAC species x 3 =
1. Liriodendron tulipitera	10	Ν	FACU	FACU species x 4 =
1. Little Co. Cl	10			UPL species x 5 =
2. Liquidamber Styracthra	25	<u> 4</u>	+xc	
3. Rubus argutus'	65	7	<u>FAC</u>	Column Totals: (A) (B)
4		•		Dravelense Index - B/A -
				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.01
	00	= Total Co	ver	1
50% of total cover: 50		_ 10(a1 00	20	Problematic Hydrophytic Vegetation¹ (Explain)
	20% 0	t total cover		
Herb Stratum (Plot size: 5 × 5)				Indicators of hydric soil and wetland hydrology must
1				be present, unless disturbed or problematic.
2				Definitions of Four Vegetation Strata:
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub - Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb - All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine - All woody vines greater than 3.28 ft in
11				height.
12.				
12.		T 1.10	·	·]
F00/ of total		_= Total Co		
50% of total cover:	20% (of total cove	er:	. \
Woody Vine Stratum (Plot size: 30 x 30)			_	
1. Vitis rotundifolia	10	Y	FAC	
	10	- 	FAC	- }
2				-
3				-
4			_	-
5				- Hydrophytic
	20	= Total Co	over	Vegetation
50% of total cover:				Present? Yes X No
		OI total cove	er	-
Remarks: (If observed, list morphological adaptations beli	ow).			
The hydrophytic Vegetation	Criteri	on has	heen	met,
			~	•
1				

Depth (inches)	Matrix	•		x Feature			n the absence		··· /	
(inches)	Color (moist)	%	Color (moist)	<u> </u>	Type ¹	Loc ²	Texture		Remarks	
0-6	104R 3/2	100			. <u></u>		59.10.	unwated	sand grains	
6-9	LOYR4/1	100					Sa.10.		•	
9-20	10185/2	95	7.54R33	5	C	Μ	50.10.			
										
										
					. ——					
			-		· ——					
							2,			
			Reduced Matrix, MS LRRs, unless other			ains.			ing, M=Matrix. atic Hydric Soils³:	
Histosol		cable to all	Polyvalue Be			RRS T	 1	Muck (A9) (LR	•	
	oipedon (A2)		Thin Dark Su					wuck (Аз) (LN Muck (А10) (L		
	stic (A3)		Loamy Muck						8) (outside MLRA 15	(0A,B
	en Sulfide (A4)		Loamy Gleye		(F2)				n Soils (F19) (LRR P,	S, T)
	d Layers (A5)		Depleted Ma	. ,	-01				oamy Soils (F20)	
	Bodies (A6) (LRR I ucky Mineral (A7) (L		Redox Dark S		•		1 1 '	RA 153B) Parent Materia	I /TE2\	
	esence (A8) (LRR		Redox Depre						Surface (TF12)	
_	ıck (A9) (LRR P, T)	-	Marl (F10) (L		•			(Explain in Re		
= :	d Below Dark Surfa	ce (A11)	Depleted Oc							
=	ark Surface (A12)		Iron-Mangan				•	_	ophytic vegetation an	ıd
_	rairie Redox (A16) /lucky Mineral (S1)	•	A) Umbric Surfa Delta Ochric		•	, U)			gy must be present, For problematic.	
	Sleyed Matrix (S4)	(LKK 0, 3)	Reduced Ve			50A. 150E		icss distuibed	or problematic.	
	Redox (S5)		Piedmont Flo							
Stripped	i Matrix (S6)		Anomalous E	Bright Loa	my Soils	F20) (ML	RA 149A, 1530	C, 153D)		
	rface (S7) (LRR P,						1			
_	Layer (if observed):								
Type:							11	11.D	Yes X No_	**
Depth (ir	cnes):						нуапс 50	II Present?	1es / NO_	
Remarks:										
72	e hydric	soil co	iterian has		met					
R	le hydric	soil cr	iterian has l	oeen "	met.					
72	e hydric	soil cr	iterion has h	oeen '	met.					
72	e hydric	soil cr	iterion has h	oeen '	met.					
72	e hydric	soil er	iterion has l	oeen 1	met.					
T	e hydric	soil cr	iterion has h	oeen '	met,					
72	e hydric	soil cr	iterion has a	oeen '	met.					
72	e hydric	soil cr	iterion has h	oeen '	met,					
72	e hydric	soil cr	iterion has l	oeen '	met.					
72	e hydric	soil cr	iterion has l	oeen T	met.					
72	e hydric	soil er	iterion has a	olen T	met.					
T	e hydric	soil cr	iterion has h	oeen '	met.					
T	e hydric	soil cr	iterian has h	olen T	met.					
T	e hydric	soil cr	iterion has l	olen T	met.					
T	e hydric	soil cr	iterion has l	olen T	met.					
T	e hydric	soil cr	iterion has h	olen T	met.					
T	e hydric	soil cr	iterion has h	olen T	met.					
T	le hydric	soil cr	iterion has l	olen T	met.					
12	le hydric	soil cr	iterion has l	olen T	met.					
T	le hydric	soil cr	iterion has l	olen T	met.					



Upland data point wwio001_u facing west.

Project/Site: ACP	City/County: Wilson Co. Sampling Date: 7/2/14
Applicant/Owner: Daminion	State: NC Sampling Point: www.o.002.f_u
Investigator(s): ESI - KMarkham / J. Benlon	
	Local relief (concave, convex, none): Whate Slope (%): 0-2
Subregion (LRR or MLRA): LRR P Lat: 35,	75367 N Long: 78.05642 W Datum: W65.1984
Soil Map Unit Name: Toisnot loam	NWI classification: PFO
Are climatic / hydrologic conditions on the site typical for this time of ye	
Are Vegetation, Soil, or Hydrology significantly	>
Are Vegetation, Soil, or Hydrology naturally pr	
	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: Yes No Yes No	
wetland data point.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply	
Surface Water (A1) High Water Table (A2) Aquatic Fauna (B	
High Water Table (A2) Saturation (A3) Marl Deposits (B1) Hydrogen Sulfide	Maring
	heres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2)	
	uction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface Thin Deposits (B5) Other (Explain in	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	AM
Surface Water Present? Yes No _X Depth (inche	
Water Table Present? Yes No Depth (inche	es): 5 VI FACE Wetland Hydrology Present? Yes X No
Saturation Present? Yes _ No Depth (inche (includes capillary fringe)	wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial pho	otos, previous inspections), if available:
Remarks:	
The hydric soil criterion has	been met.
	1

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

	AL 1. 1 -	D	l	D
Tree Stratum (Plot size: 30 x 30 _)		Dominant Species?		Dominance Test worksheet:
Tree Stratum (Plot size: / / / / / / /		Species?		Number of Dominant Species That Are OBL EACIN or EAC:
1. Salix nigra	<u> 40 </u>		OBL	That Are OBL, FACW, or FAC: (A)
2. Liquidan Bar Styracifly	30	Ý	FAC	
		N	OBL	Total Number of Dominant Species Across All Strata: (B)
3. Nyssa biflora	<u> </u>		()OL	Species Across All Strata: (B)
4				
F	•			Percent of Dominant Species That Are OBL FACW or FAC: 100 (A/B)
5	· 			That Are OBL, FACW, or FAC: 100 (A/B)
6				
7				Prevalence Index worksheet:
	· ——-			Total % Cover of: Multiply by:
8				
	80	= Total Co	ver	OBL species x 1 =
50% of total cover: 40	200/ -	f total cover		FACW species x 2 =
50% of total cover:	20% 01	i totai covei	: _10	FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 15 x 15)				
1. Liquidamber styracifluq	20_	\ /	FAC	FACU species x 4 =
				UPL species x 5 =
2. Nyssa biFlora		<u> N</u>	<u>OBL</u>	i i
3. Acct rubrum	5	Ν	FAC	Column Totals: (A) (B)
	•			4
4. <u>Clethra alnifolia</u>	10	<u> </u>	FACW	Prevalence Index = B/A =
5		ı		
		-		Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
				Z 2 Dominance Test is >50%
8				☐ 3 - Prevalence Index is ≤3.01
	40	= Total Co	ver	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: Zo				Froblematic Hydrophytic Vegetation (Explain)
	20% 0	i total cove	r:	
Herb Stratum (Plot size: 5 × 5)				¹Indicators of hydric soil and wetland hydrology must
	7ò	7	OBL	be present, unless disturbed or problematic.
1. Crowled Princeriality	<u>Zò</u>	· /- -		
2. Buehmeria cylindrica	5	<u> </u>	FACW	Definitions of Four Vegetation Strata:
3 Woodwardia areolata	5	N	OBL	
J	 		<u> </u>	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4	_			more in diameter at breast height (DBH), regardless of
5				height.
				'
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
				`
8			-	, p
9	_			of size, and woody plants less than 3.28 ft tall.
10		-		Woody vine - All woody vines greater than 3.28 ft in
11				height.
12.				
12,	7.0			• [
	20	_ = Total C	over	
50% of total cover: 15	20%	of total cove	er: b	
20 - 30			- · · <u></u>	- [
Woody Vine Stratum (Plot size: 30 × 30)	_		_	
1. Smilex rotunditolia	5	Α	FAC.	
		- —		-
2				-
3.				
		-	_	-
4				-
5.				Hudranhutia
				- Hydrophytic Vegetation
	_	_ = Total C	1	
50% of total cover:2	5 20%	of total cov	rer:	Present? Yes No
Remarks: (If observed, list morphological adaptations be	eiow).			
Mar hid was I'm Variable	م میمنا	المالكي	<u> </u>	c 1.
The hydrophytic Vegetal	HON! C	-114011	om nas	been met.
				·
1				

Profile Desc	ription: (Describe	to the dep	th needed to docum	nent the ir	ndicator	or confirm	the absence of	f indicators.)		
Depth	Matrix			K Features			- .			
(inches) 0 - \$	104R3/1	18	Color (moist)	<u> </u>	Type ¹	Loc ²	<u>Texture</u>	Remarks		
8-20	1048211	12	104R 5/6	$\frac{2}{5}$	<u> </u>	<u>M</u>				
10.20	1071		TOUR -18			<u></u>	59, 0.			
		- 								
			Reduced Matrix, MS			ains.		PL=Pore Lining, M=Matrix.		
		cable to all	LRRs, unless other			DDCTI		or Problematic Hydric Soils ³ :		
Histosol	(AT) pipedon (A2)		Polyvalue Be				. –	uck (A9) (LRR O) uck (A10) (LRR S)		
Black Hi			Loamy Muck					d Vertic (F18) (outside MLRA 150A,B)		
=	n Sulfide (A4)		Loamy Gleye		(F2)			Piedmont Floodplain Soils (F19) (LRR P, S, T)		
	l Layers (A5)	3 T IN	Depleted Ma		E6)			ous Bright Loamy Soils (F20)		
_	Bodies (A6) (LRR I ucky Mineral (A7) (L	•	=	•	•		1-1 '	(MLRA 153B) Red Parent Material (TF2)		
	esence (A8) (LRR		Redox Depre					nallow Dark Surface (TF12)		
! 	ick (A9) (LRR P, T)		Marl (F10) (L	•		.=4\	U Other (E	Explain in Remarks)		
1 	d Below Dark Surfa ark Surface (A12)	ce (A11)	☐ Depleted Oc☐ Iron-Mangan		-		.T) ³ indica	ators of hydrophytic vegetation and		
1	rairie Redox (A16)	(MLRA 150				-		and hydrology must be present,		
· = ·	lucky Mineral (S1)	(LRR O, S)	Delta Ochric					ss disturbed or problematic.		
ı = ·	Sleyed Matrix (S4)		Reduced Ve		-		-			
· —	Redox (S5) I Matrix (S6)		Piedmont Flo	-	-		49A) RA 149A, 153C,	153D)		
. =	rface (S7) (LRR P,	S, T, U)			,	() (, , , , , , , , , , , , , , , , , , , ,	,		
Restrictive	Layer (if observed):						·		
Type:								×		
Depth (in	ches):						Hydric Soil	Present? Yes X No No		
Remarks:	~n () .									
	The hydra	c soil	criterion h	as be	en m	4.				
	,					-,				
	•									
								•		
			·							



Wetland data point wwio002f_w facing north.

Project/Site: ACP	City/County: Wilson Sampling Date: 7/2/14
Applicant/Owner: Dominion	State: NC Sampling Point: wwioob2_i
Investigator(s): ESI - KMNKham (J. Benton	
	Local relief (concave, convex, none): CONVEX Slope (%): O-2
Subregion // BB or MI BAY: RR P Let: 35.	75369 N Long: 78.05636 W Datum: woS-1984
Soil Map Unit Name: Norfolk loany Sand, 2-67	/o Class NAM elegations N/A
Are climatic / hydrologic conditions on the site typical for this time of ye	
Are Vegetation, Soil, or Hydrology significantly Are Vegetation, Soil, or Hydrology naturally pr	·
	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: Yes No Yes No	Is the Sampled Area within a Wetland? Yes No
Upland data point.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	
Surface Water (A1) Aquatic Fauna (B)	
High Water Table (A2) Saturation (A3) Hydrogen Sulfide	· · · · · · · · · · · · · · · · · · ·
	heres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2)	
	action in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface Character (B5)	
☐ Iron Deposits (B5) ☐ Other (Explain in Inundation Visible on Aerial Imagery (B7)	Remarks)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No Depth (inche	ss): <u> </u>
Water Table Present? Yes No Depth (inche	es): <u>720</u>
Saturation Present? Yes No X Depth (inche	es): 720 Wetland Hydrology Present? Yes No X
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial pho	otos, previous inspections), if available:
Remarks:	
	1 k
The hydrologic Criterian ho	is not been met

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

7 - ~ 5D		Dominant		Dominance Test worksheet:		
Tree Stratum (Plot size: 3 > × 30)		Species?		Number of Dominant Species		
1. Pinus taeda	80		FAC	That Are OBL, FACW, or FAC: (A)		
2. Liriodendron telipitera	<u>[D</u>	<u>N</u>	1-tcv	Total Number of Dominant		
3				Species Across All Strata: (B)		
4				(-)		
				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)		
5				That Are OBL, FACW, or FAC: (A/B)		
6				Prevalence Index worksheet:		
7				Total % Cover of:Multiply by:		
8						
	90	= Total Cov	ег	OBL species x 1 =		
50% of total cover: <u>45</u>	20% of	total cover	: 18	FACW species x 2 =		
Sapling/Shrub Stratum (Plot size: 15 x/5)			·	FAC species x 3 =		
1. Pinus tueda	20	V	FAC	FACU species x 4 =		
2. Liquidambar styraciflus	10	$\frac{1}{\sqrt{\lambda}}$	FAC	UPL species x 5 =		
3. Lirialendron tilipifera	15		Ficu	Column Totals: (A) (B)		
l l		$-\!\!\!\!-\!\!\!\!\!-$, , ,		
4. Ilex Opaca		<u>N</u>	FAC	Prevalence Index = B/A =		
5. <u>Clethra alnifolia</u>	10	<u>N</u>	<u>FACW</u>	Hydrophytic Vegetation Indicators:		
6				1 - Rapid Test for Hydrophytic Vegetation		
7				2 - Dominance Test is >50%		
8.				☐ 3 - Prevalence Index is ≤3.0¹		
	60	= Total Co				
50% of total cover: 30		f total cover	. ~	Problematic Hydrophytic Vegetation¹ (Explain)		
50% of total cover:	20% 0	i total cover	. 1			
Herb Stratum (Plot size: 5 × 5)	2-		C 1 1	¹Indicators of hydric soil and wetland hydrology must		
1. Clethra alnifolia		-/	FACW	be present, unless disturbed or problematic.		
2		· — ·		Definitions of Four Vegetation Strata:		
3				Tree Mondy plants evaluating vines 2 in (7.6 cm) of		
4				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of		
5.				height.		
6				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.		
7				than 3 iii. DDI rand greater than 3.25 it (1 iii) taii.		
8				Herb – All herbaceous (non-woody) plants, regardless		
1 6				of size, and woody plants less than 3.28 ft tall.		
9						
10				Woody vine - All woody vines greater than 3.28 ft in		
				Woody vine - All woody vines greater than 3.28 ft in height.		
10						
10						
10	30	= Total Co	ver			
10	30		ver			
10		= Total Co	ver			
10	30	= Total Co	ver			
10		= Total Co	ver			
10		= Total Co	ver			
10		= Total Co	ver			
10		= Total Co	ver	height.		
10	30 20% c 5	= Total Co	FAC	height.		
10	30 20% c 5 5	= Total Co	FAC FAC	height.		
10. 11. 12. 50% of total cover: 15 Woody Vine Stratum (Plot size: 30 x 30) 1. Smilax rotundifolia 2. Vitis rotundifolia 3. 4. 5. 50% of total cover: 5	30 20% c 5 5	= Total Co	FAC FAC	height. Hydrophytic Vegetation		
10	30 20% c 5 5	= Total Co	FAC FAC	height. Hydrophytic Vegetation		
10. 11. 12. 50% of total cover: 15 Woody Vine Stratum (Plot size: 30 x 30) 1. Smilax Cotundifolia 2. Vitis rotundifolia 3. 4. 5. 50% of total cover: 5 Remarks: (If observed, list morphological adaptations be	30 20% 0 5 5 10 20% 0	= Total Co of total cove	FAC FAC over	height. Hydrophytic Vegetation Present? Yes No		
10. 11. 12. 50% of total cover: 15 Woody Vine Stratum (Plot size: 30 x 30) 1. Smilax Cotundifolia 2. Vitis rotundifolia 3. 4. 5. 50% of total cover: 5 Remarks: (If observed, list morphological adaptations be	30 20% 0 5 5 10 20% 0	= Total Co of total cove	FAC FAC over	height. Hydrophytic Vegetation Present? Yes No		
10. 11. 12. 50% of total cover: 15 Woody Vine Stratum (Plot size: 30 x 30) 1. Smilax rotundifolia 2. Vitis rotundifolia 3. 4. 5. 50% of total cover: 5	30 20% 0 5 5 10 20% 0	= Total Co of total cove	FAC FAC over	height. Hydrophytic Vegetation Present? Yes No		
10. 11. 12. 50% of total cover: 15 Woody Vine Stratum (Plot size: 30 x 30) 1. Smilax Cotundifolia 2. Vitis rotundifolia 3. 4. 5. 50% of total cover: 5 Remarks: (If observed, list morphological adaptations be	30 20% 0 5 5 10 20% 0	= Total Co of total cove	FAC FAC over	height. Hydrophytic Vegetation Present? Yes No		
10. 11. 12. 50% of total cover: 15 Woody Vine Stratum (Plot size: 30 x 30) 1. Smilax Cotundifolia 2. Vitis rotundifolia 3. 4. 5. 50% of total cover: 5 Remarks: (If observed, list morphological adaptations be	30 20% 0 5 5 10 20% 0	= Total Co of total cove	FAC FAC over	height. Hydrophytic Vegetation Present? Yes No		
10. 11. 12. 50% of total cover: 15 Woody Vine Stratum (Plot size: 30 x 30) 1. Smilax Cotundifolia 2. Vitis rotundifolia 3. 4. 5. 50% of total cover: 5 Remarks: (If observed, list morphological adaptations be	30 20% 0 5 5 10 20% 0	= Total Co of total cove	FAC FAC over	height. Hydrophytic Vegetation Present? Yes No		

Profile Desc	ription: (Describe	to the dept	h needed to docu	ment the it	ndicator	or confirm	the absence of ind	cators.)	<u>`</u>		
Depth	Matrix		Redo	x Features	3				-		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	_Loc ²	<u>Texture</u>	Remarks			
0-6	104R 3/2	100					Sailoi	· · · · · · · · · · · · · · · · · · ·			
6-20	104R5/6	80	104R 5/4	Zo	D	Μ	Cl.10.				
								*			
		· -				·					
									<u> </u>		
									\		
¹Tyrpe: C=C	oncentration, D=Der	letion DM-	Deduced Matrix M	– ——— S-Mackad	Sand Cr	- ——	2l postion: DI –D	ore Lining, M=Matrix.			
	Indicators: (Applic					ans.		oblematic Hydric Soils ³ :			
☐ Histosol		able to all i	_		· ·	BBCTI		· ·			
ı =	pipedon (A2)		Polyvalue Be				· 🗖		ĺ		
	istic (A3)		Loamy Muci			•	2 cm Muck (/	tic (F18) (outside MLRA 15	OA DI		
_	en Sulfide (A4)		Loamy Gley			(0)					
: = · ·	d Layers (A5)		Depleted Ma	•	· ,		Piedmont Floodplain Soils (F19) (LRR P, S, T) Anomalous Bright Loamy Soils (F20)				
1	Bodies (A6) (LRR F	. T. U)	Redox Dark		·6)		(MLRA 15:				
_	ucky Mineral (A7) (L	•	Depleted Da	•	•			Red Parent Material (TF2)			
. —	resence (A8) (LRR L		Redox Depr					Very Shallow Dark Surface (TF12)			
	uck (A9) (LRR P, T)		☐ Mari (F10) (LRR U)	-		Other (Explain in Remarks)				
Deplete	d Below Dark Surfac	e (A11)	Depleted Od	chric (F11)	(MLRA 1	l51 <u>)</u>	•	·			
Thick D	ark Surface (A12)		Iron-Mangai	nese Mass	es (F12)	(LRR O, P	, T) ³ Indicators	of hydrophytic vegetation and	d		
) 	rairie Redox (A16) (() 🔲 Umbric Surf	face (F13) (LRR P,	T, U)	wetland hydrology must be present,				
 	Mucky Mineral (S1) (LRR O, S)	Delta Ochrid				unless disturbed or problematic.				
	Gleyed Matrix (S4)		Reduced Ve		-	-	•		Ì		
_	Redox (S5)		Piedmont Fi	-	-		•		ĺ		
·	d Matrix (S6)	o = 110		Bright Loai	my Soils	(F20) (MLI	RA 149A, 153C, 153D)}	l		
	urface (S7) (LRR P, Layer (if observed)	-									
_	Layer (II Observed)	•									
Type:									\searrow		
Depth (ir	icnes):						Hydric Soil Presi	ent? Yes No			
Remarks:											
1 7	he hydric	Soil	criterian 1	105 40	1. La		1		i		
,	1 1/4/10	JU()		ואט ונט	H DE	en me	. 1 .				
ļ											
ļ											
1											
								•			
							•				



Upland data point wwio002_u facing north.

Project/Site: ACP	City/County: Wilson Co. Sampling Date: 7 July 2014 State: NC Sampling Point: wwio 003f-wi
Applicant/Owner: Dominion	State: NC Sampling Point: WW10 003f-W
1/ 11 - de la aire / 50	Section, Township, Range: NA
Landform (hillslope, terrace, etc.): Incar de pression	Local relief (concave, convex, none): Concave Slope (%): < 1 % 35 , 75861 Long: 78 , 06 77 Datum: W65 (984)
Subregion (LRR) or MLRA):	Long: (B) Datum: W63 (1)
Soil Map Unit Name: Rains Sandy loam	NWI classification: PFO
Are climatic / hydrologic conditions on the site typical for this time	of year? Yes No (If no, explain in Remarks.)
Are Vegetation, Soit, or Hydrology signific	cantly disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology natura	
	wing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	To die editipies race
Hydric Soil Present? Yes No	within a Wetland? Yes No
Wetland Hydrology Present? Yes No	
Remarks:	
	•
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that a	prog
Surface Water (A1) Aquatic Faur	· · · · · · · · · · · · · · · · · · ·
	s (B15) (LRR U) Drainage Patterns (B10)
	ulfide Odor (C1) Moss Trim Lines (B16)
	zospheres along Living Roots (C3) Dry-Season Water Table (C2)
	Reduced Iron (C4) Crayfish Burrows (C8)
	Reduction in Tilled Soils (C6)
Algal Mat or Crust (B4)	urface (C7) Geomorphic Position (D2)
Iron Deposits (B5) Uther (Expla	in in Remarks) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	0.10
Surface Water Present? Yes No _X Depth (inches): NA
Water Table Present? Yes X No Depth (inches): 12 Wetland Hydrology Prosent? Vos
Saturation Present? Yes No Depth (includes capillary fringe)	inches): 12 Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aeria	al photos, previous inspections), if available:
Remarks:	

VEGETATION (Four Strata) - Use scientific names of plants

r. 31		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 5×30		Species?		Number of Dominant Species
1. <u>Liquidambar styraciflua</u>	<u> 30 </u>		FAC	That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Species Across All Strata: (B)
4				
				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
5				That Are OBL, FACW, or FAC: 100 (A/B)
6				Prevalence index worksheet:
7				Total % Cover of: Multiply by:
8				
	30	= Total Co	ver	OBL species x 1 =
50% of total cover: 15	20% of	total cover	:: <u>6</u>	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 5× 30)				FAC species x 3 =
1. Lighstrum sinense	1	N	FAC	FACU species x4 =
2. Liquidambar styraciflua	<u> </u>	N	FAC	UPL species x 5 =
3. Arundinaria aigantea	· 	W	FACW	Column Totals: (A) (B)
5	_ 	_/4	PAC AA	
				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8.				☐ 3 - Prevalence Index is ≤3.0¹
	4	= Total Co	ver .	
50% of total cover:	20% o	- Total cours	 	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover.	20%0	i lotal cove	1. <u>:010</u>	
Herb Stratum (Plot size: 584, x 584)	50	W	FA4	¹Indicators of hydric soil and wetland hydrology must
1. Microstagium vimineum	- 	<u> </u>	FAC	be present, unless disturbed or problematic.
2. Athyrium aspleniades		_N	FAC	Definitions of Four Vegetation Strata:
3				Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5.				height.
6				On the state of th
				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7				than o in. Don' and greater than 5.20 it (1 in) tail.
8				Herb – All herbaceous (non-woody) plants, regardless
9	-			of size, and woody plants less than 3.28 ft tall.
10			.	Woody vine - All woody vines greater than 3.28 ft in
11				height.
12.				
	51	= Total Co	- —	
50% of total cover: 25 .	20%			
Woody Vine Stratum (Plot size: 15 x 15)		II (OLAI COVE	31. <u>- </u>	•
1. Vitis returniblia	2	J	EVA	j
1. VINS YOTUNGI POKA		. <u> v</u>	<u> </u>	-
2				_
3	_			_
4.				
5.				Under the 4th
J **-	<u> </u>	_ = Total C		- Hydrophytic Vegetation
				Present? Yes No No
50% of total cover:	20%	of total cov	er: One	-
Remarks: (If observed, list morphological adaptations be				
Linear Depussion.				
-				
		,		

Profile Desc	cription: (Describe t	o the dept	h needed to docum	ent the i	indicator	or confirm	the absence of in	dicators.)
Depth	Matrix			<u>Feature</u>		1 - 2	- .	
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	_Type'	Loc ²	Texture	Remarks
0-3	10 YR 3/2	100					<u>SL</u>	
3-9	10 YF 4/2	100					SCL_	
9-20	10 YR 4/1	90	10YR 5/1	5	\mathcal{D}	Μ	SCL	
		— .	10 YR 5/6	-5		M		
	· · · · · · · · · · · · · · · · · · ·		071 70					
								
¹Type: C=C	oncentration, D=Dep	 letion. RM=	Reduced Matrix, MS	=Masked	d Sand Gr	ains.	² Location: PL≃I	Pore Lining, M=Matrix.
	Indicators: (Applica					<u></u> -		Problematic Hydric Soils ³ :
☐ Histosol			☐ Polyvalue Be			RR S. T. U		(A9) (LRR O)
_	pipedon (A2)		Thin Dark Su					(A10) (LRR S)
	istic (A3)		Loamy Mucky					ertic (F18) (outside MLRA 150A,B)
│	en Sulfide (A4)		Loamy Gleye	d Matrix	(F2)			loodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)		Depleted Mat	rix (F3)			Anomalous	Bright Loamy Soils (F20)
	Bodies (A6) (LRR P.		Redox Dark S	-	•		(MLRA 1	•
	ucky Mineral (A7) (LF		Depleted Dar					Material (TF2)
	resence (A8) (LRR U)	Redox Depre		-8)			w Dark Surface (TF12)
1 =	uck (A9) (LRR P, T)	- (044)	Mari (F10) (L		/A41 DA 4	P4\	U Other (Expl	ain in Remarks)
ı = '	d Below Dark Surface ark Surface (A12)	e (ATT)	☐ Depleted Oct ☐ Iron-Mangane			•	T) 3Indicates	s of hydrophytic vegetation and
I ===	rairie Redox (A16) (N	AI RA 1508	_				-	hydrology must be present,
_	Aucky Mineral (S1) (L		Delta Ochric					fisturbed or problematic.
	Gleyed Matrix (S4)	o, o,	Reduced Ver		-			isturbed or problematic.
	Redox (S5)		Piedmont Flo					
1 = -	d Matrix (S6)			-			RA 149A, 153C, 153	3D)
	ırface (S7) (LRR P, S	s, T, U)	_		•			,
Restrictive	Layer (if observed):					_		
Туре:								
Depth (in	iches):						Hydric Soil Pres	sent? Yes No
Remarks:							1 ,	
i								
	•							
·							•	
1								
1								



Wetland data point wwio003f_w facing east.

Project/Site: ACP	_ City/County: Wilso	on (o. s	sampling Date: 7 July 2014
Applicant/Owner: Dominion		State: NC s	ampling Point: Www.003-0
Investigator(s): K. Markham / J. Gay	Section, Township, Ran		amping rount
		Panyay panal: NONE	Slone (%). <1%
Landform (hillslope, terrace, etc.): +crrace Subregion (LRR or MLRA):	_ 200an lener (concave, co	78,06174	Slope (70)
Soil Map Unit Name: Rains Sandy loam		orig: 70 - 1	Datum: 4055 (to]
The state of the s		NWI classificat	
Are climatic / hydrologic conditions on the site typical for this time of			
Are Vegetation, Soil, or Hydrology significa		'Normal Circumstances" pre	
Are Vegetation, Soil, or Hydrology naturally	problematic? (If nec	eeded, explain any answers	in Remarks.)
SUMMARY OF FINDINGS - Attach site map show	ng sampling point lo	ocations, transects,	important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: Yes No Yes No No	Is the Sampled within a Wetlan		_ No_ <u>\</u>
HYDROLOGY			
Wetland Hydrology Indicators:		P=-1	ors (minimum of two required)
Primary Indicators (minimum of one is required; check all that app		Surface Soil C	' '
Surface Water (A1) Aquatic Fauna High Water Table (A2) Marl Deposits	•	Drainage Patte	etated Concave Surface (B8)
Saturation (A3) Hydrogen Sulfi		Moss Trim Lin	
	spheres along Living Roots		later Table (C2)
1 	duced Iron (C4)	Crayfish Burro	` '
	duction in Tilled Soils (C6)		ible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Sur Others (Explain		☐ Geomorphic F☐ Shallow Aquite	· · ·
Iron Deposits (B5) Uother (Explain Inundation Visible on Aerial Imagery (B7)	in Remarks)	FAC-Neutral 1	` '
Water-Stained Leaves (B9)			oss (D8) (LRR T, U)
Field Observations:			
Surface Water Present? Yes No Depth (inc	hes):		
Water Table Present? Yes No _X Depth (inc			\vee
Saturation Present? Yes No _X Depth (includes capillary fringe)	hes): <u>> 30</u> We	etland Hydrology Present	? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial p	hotos, previous inspections	s), if available:	<u> </u>
Remarks:			
(Vollation)			
·			
· ·			
1			

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

2 ^ 20	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 x 30)		Species?		Number of Dominant Species
1. Liquidambar shraciflua	50	<u> </u>	<u>FAC</u>	That Are OBL, FACW, or FAC: (A)
2. Pinus talda	25	<u> </u>	FAC	T. I. I. I. I. I. I. I. I. I. I. I. I. I.
3. Prunus serotina	20	Ý	FACU	Total Number of Dominant Species Across All Strata: (B)
· · · · · · · · · · · · · · · · · · ·				Openies Across Air Girata.
4				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
5				That Are OBL, FACW, or FAC: 8 (A/B)
6				Prevalence index worksheet:
7				
8				Total % Cover of: Multiply by:
	75	= Total Cov	/er	OBL species x 1 =
50% of total cover: 47.5	20% of	total cover	.19	FACW species x 2 =
	20700	I lotal cover	· • • • • • • • • • • • • • • • • • • •	FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 15 x 15) 1. Liquid Ambar 3h.ra ciffua	30	V .	EAA	FACU species x 4 =
		- 1	FAC	UPL species x 5 =
2. Cornus florida	10	<u> Y</u>	FACU	
3. Acer rubrum	10	<u> </u>	FAC	Column Totals: (A) (B)
4				Dravelence Index = B/A =
5				Prevalence Index = B/A =
				Hydrophytic Vegetation Indicators:
6				Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.01
	<u> 50</u>	= Total Co	ver	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: <u>25</u>	20% o	f total cover	<i>[0</i>	<u> </u>
Herb Stratum (Plot size: 5 ft. x 5 ft)				The state of the s
1 \^ \^\\ .\=\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	50	Y	FAC	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. Microstegium Vimineum 2. Vitis rotundiblia	15	· •		
	13	\	FAC	Definitions of Four Vegetation Strata:
3. Lonicera japonica	. 	. <u>- 14</u>	FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6.				Sanling/Shruh Moody plants avaluding vines loss
				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7				There are greater training to the control of the co
8				Herb - All herbaceous (non-woody) plants, regardless
9		- ——	·	of size, and woody plants less than 3.28 ft tall.
10				Woody vine - All woody vines greater than 3.28 ft in
11				height.
12				
	70	_ = Total Co	Wor	
50% of total cover: _ 3 _2		of total cove		
	20% (or total cove	il.	• <u> </u>
Woody Vine Stratum (Plot size: 15 x 15)		V		
1. Lonicera japonica	5	. 	<u> </u>	. [
2. Smilax tratundifolia	5	<u> </u>	FAC	_
3. Vitis rotundifolia	5	Y	FAC	
4		-		•
7			_	-
5				- Hydrophytic
7	12_	_ = Total Co	_	Vegetation Present? Yes No
50% of total cover: 1'	20%	of total cove	er: <u>5 </u>	- les
Remarks: (If observed, list morphological adaptations bel	low).			
1				

	ription: (Describe	to the depth			,	or confirm	the absence of in	dicators.)	
Depth (inches)	Matrix Color (moist)	 -	Redo Color (moist)	x Feature %	S Type ¹	Loc²	Texture	Remarks	,
D-23	107K 4/2	10D -	COLOI (ITIOISI)	70	ype	LUC	SL.	Kemark	-
					- ——				
23-30	10YR 5/1	100					SCL		
				-					
			- ···			`			
1- 0 0							2		
	ncentration, D=Der					ains.		Pore Lining, M=M:	
I	ndicators: (Applic	able to all L			-			Problematic Hydr	ic Soils":
Histosol			Polyvalue B					(A9) (LRR O)	
	ipedon (A2)		Thin Dark S					(A10) (LRR S)	- M B 4 450 4 D)
Black Hi			Loamy Much	-		(0)			e MLRA 150A,B)
	n Sulfide (A4) Layers (A5)		Loamy Gley Depleted Ma		(Г2)		1 1	loodplain Soils (F	
	i Layers (A5) Bodies (A6) (LRR F	> T 11\	Redox Dark		F6)		(MLRA 1	Bright Loamy Soi	ia (1°20)
	cky Mineral (A7) (L		Depleted Da				[,	t Material (TF2)	Į
	esence (A8) (LRR L		Redox Depr					ow Dark Surface (1	F12)
	ck (A9) (LRR P, T)		Marl (F10) (•	~/			lain in Remarks)	,
	Below Dark Surface		Depleted Oc		(MLRA 1	51)		,	
	ırk Surface (A12)	` ,	Iron-Mangar				T) ³ Indicator	s of hydrophytic ve	getation and
	rairie Redox (A16) (MLRA 150A						hydrology must be	
Sandy M	lucky Mineral (S1) (LRR O, S)	Delta Ochrid	(F17) (M	LRA 151)		unless	disturbed or proble	matic.
Sandy G	lleyed Matrix (S4)		Reduced Ve	ertic (F18)	(MLRA 1	50A, 150B)			
Sandy F	ledox (S5)		Piedmont Fi	loodplain \$	Soils (F19)	(MLRA 14	9A)		
	Matrix (S6)			Bright Loa	amy Soils	(F20) (MLR	A 149A, 153C, 15	3D)	
	rface (S7) (LRR P,								
Restrictive	_ayer (if observed)):							1
Type:									· · ·
Depth (in	ches):		<u></u>				Hydric Soil Pre	sent? Yes	No_X_
Remarks:									
}									·
ļ									
1									
1									
•									



Wetland data point wwio003_u facing north.

Project/Site: ACP	ity/County: Wilson Co. Sampling Date: 7 July 2014
Applicant/Owner: Dominion	State: NC Sampling Point: Wwio 00 4 f_W
	Section, Township, Range: N ft
1 /	ocal relief (concave, convex, none): CONCAUC Slope (%): 5%
Subregion (LRR or MLRA): P Lat: 35, 7	14482 Long: 78.07269 Datum: WGS 1984
Soil Map Unit Name: Bibb loam	NWI classification: PFO
Are climatic / hydrologic conditions on the site typical for this time of year	
Are Vegetation, Soil, or Hydrology significantly of	
Are Vegetation, Soil, or Hydrology naturally prot	
	sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: Yes X No No No No No No No No No No No No No	Is the Sampled Area within a Wetland? Yes
Data form taken on downline side of welland	d since upline side is agrirultural field edge.
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	
Surface Water (A1) Aquatic Fauna (B13) Aquatic Fauna (B13)	
High Water Table (A2) Marl Deposits (B15) Saturation (A3) Hydrogen Sulfide O	
	eres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2)	
Drift Deposits (B3)	ion in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	
Iron Deposits (B5) Under (Explain in Re	
Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)	M FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U)
Field Observations:	Spriagrium moss (Do) (ERA 1, U)
Surface Water Present? Yes No Depth (inches)	· NA
Water Table Present? Yes No Depth (inches)	: >20
Saturation Present? Yes No Depth (inches) (includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photo	s, previous inspections), if available:
Remarks:	

50 00	Alexa da Ae	D1	1	Daniel Tarkers de la Constitución
Tree Stratum (Plot size: 30 × 30)		Dominant		Dominance Test worksheet:
		Species?		Number of Dominant Species
1. Nyssa sylvatica	50_	<u>y</u>	FAC	That Are OBL, FACW, or FAC: (A)
2. Liquidamber styracifua	40	'ν	FA	/
		-V'		Total Number of Dominant
3. Pinus taeda	30		FAO	Species Across All Strata: (B)
4		•		. •
			· 	Percent of Dominant Species 90
5				That Are OBL, FACW, or FAC: (A/B)
6				
				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8				
	120	= Total Co	VOF	OBL species x1 =
				FACW species x 2 =
50% of total cover: <u>6</u>	20% of	f total cove	r: <u>4 </u>	
Sapling/Shrub Stratum (Plot size: 15 × 15)				FAC species x 3 =
<u> </u>	20	V	FAC	FACU species x 4 =
1. Quercus higra				I
2. Vaccinium corymbosum	5	N	FACW	UPL species x 5 =
3. Symplocus finctoria	10	\overline{V}		Column Totals: (A) (B)
	- 		EAC	
4. Arundinania gigantea	40	<u> </u>	FACW	Prevalence Index = B/A =
-		•		
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				
				2 - Dominance Test is >50%
8.				3 - Prevalence Index is ≤3.0 ¹
	75	= Total Co	over	Problematic Hydrophytic Vegetation¹ (Explain)
50% <u>of</u> total cover: <u>3</u> 7	5 0004		15	Problematic Hydrophytic Vegetation (Explain)
50% of total cover: 9 1	<u>122</u> 20% 0	it total cove	er: <u>19</u>	
Herb Stratum (Plot size: 5 × 5)				¹ Indicators of hydric soil and wetland hydrology must
1. Clethra alnifolia	5	V	FAC W.	be present, unless disturbed or problematic.
	- — —	· - 1 1/		,
	<u> </u>	<u> </u>	FAC U	Definitions of Four Vegetation Strata:
3. Arundinaria disantea	10	V	FACW	
			<u> </u>	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub - Woody plants, excluding vines, less
7	_	_		than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
				of size, and woody plants less than 3.28 ft tall.
9				or ones, and reduce, practice to the control of the
i				
10				Woody vine – All woody vines greater than 3.28 ft in
i				
10				Woody vine – All woody vines greater than 3.28 ft in
10				Woody vine – All woody vines greater than 3.28 ft in
10	20	_ = Total C	over	Woody vine – All woody vines greater than 3.28 ft in
10	20		over	Woody vine – All woody vines greater than 3.28 ft in
10	20	_ = Total C	over	Woody vine – All woody vines greater than 3.28 ft in
10	20 0 20% (_ = Total C	over er:	Woody vine – All woody vines greater than 3.28 ft in
10	20	_ = Total C	over	Woody vine – All woody vines greater than 3.28 ft in
10	20 0 20% (_ = Total C	over er: 4	Woody vine – All woody vines greater than 3.28 ft in
10	20 0 20% (_ = Total C	over er:	Woody vine – All woody vines greater than 3.28 ft in
10	20 0 20% (_ = Total C	over er: 4	Woody vine – All woody vines greater than 3.28 ft in
10	20 0 20% (_ = Total C	over er: 4	Woody vine – All woody vines greater than 3.28 ft in
10	20 0 20% (_ = Total C	over er: 4	Woody vine – All woody vines greater than 3.28 ft in
10	20 0 20% (_ = Total C	over er: 4	Woody vine – All woody vines greater than 3.28 ft in height.
10	20 0 20% (50 30	= Total Co	over er: 4 PAC FAC	Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic
10	20 0 20% 0 50 30	_= Total Coof total cov	over er: 4	Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
10	20 0 20% 0 50 30	= Total Co	over er: 4	Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
10. 11. 12. 50% of total cover: Woody Vine Stratum (Plot size: 15 x 15) 1. Smilax rotundiblia 2. Vitis rotundiblia 3. 4. 5. 50% of total cover: 4	20 0 20% 0 50 30 80 0 20%	_= Total Coof total cov	over er: 4	Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
10	20 0 20% 0 50 30 80 0 20%	_= Total Coof total cov	over er: 4	Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
10. 11. 12. 50% of total cover: Woody Vine Stratum (Plot size: 15 x 15) 1. Smilax rotundiblia 2. Vitis rotundiblia 3. 4. 5. 50% of total cover: 4	20 0 20% 0 50 30 80 0 20%	_= Total Coof total cov	over er: 4	Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
10. 11. 12. 50% of total cover: Woody Vine Stratum (Plot size: 15 x 15) 1. Smilax rotundiblia 2. Vitis rotundiblia 3. 4. 5. 50% of total cover: 4	20 0 20% 0 50 30 80 0 20%	_= Total Coof total cov	over er: 4	Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
10. 11. 12. 50% of total cover: Woody Vine Stratum (Plot size: 15 x 15) 1. Smilax rotundiblia 2. Vitis rotundiblia 3. 4. 5. 50% of total cover: 4	20 0 20% 0 50 30 80 0 20%	_= Total Coof total cov	over er: 4	Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
10. 11. 12. 50% of total cover: 1 Woody Vine Stratum (Plot size: 15 x 15) 1. Smilax rotundiblia 2. Vitis rotundifolia 3. 4. 5. 50% of total cover: 4	20 0 20% 0 50 30 80 0 20%	_= Total Coof total cov	over er: 4	Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
10. 11. 12. 50% of total cover: 1 Woody Vine Stratum (Plot size: 15 x 15) 1. Smilax rotundiblia 2. Vitis rotundifolia 3. 4. 5. 50% of total cover: 4	20 0 20% 0 50 30 80 0 20%	_= Total Coof total cov	over er: 4	Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
10. 11. 12. 50% of total cover: Woody Vine Stratum (Plot size: 15 x 15) 1. Smilax rotundiblia 2. Vitis rotundifolia 3. 4. 5. 50% of total cover: 4	20 0 20% 0 50 30 80 0 20%	_= Total Coof total cov	over er: 4	Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
10. 11. 12. 50% of total cover: 1 Woody Vine Stratum (Plot size: 15 x 15) 1. Smilax rotundiblia 2. Vitis rotundifolia 3. 4. 5. 50% of total cover: 4	20 0 20% 0 50 30 80 0 20%	_= Total Coof total cov	over er: 4	Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation

Depth	nption: (Describe t Matrix	to the depth h		ent the ir Features		or contire	n the absence of ind	cators.)
(inches)	Color (moist)	%	Color (moist)	%	Type¹	Loc²	Texture	Remarks
		120						
			1040 5/11	$\overline{}$		<u>~~</u>	·	
							· 	······································
(0-20	10 YR 5/1	<u> 98 _</u>	10 yr 5/4		<u>C</u> _	<u>M</u>	Coarse Sand	
Type: C=Cor- lydric Soil In Histosol (/ Histic Epip Black Hist Hydrogen Stratified Organic B Stratified Organi	10 YR 4/1 10 YR 4/2 10 YR 5/1 Incentration, D=Depindicators: (Applied (A1))	(07)	duced Matrix, MS Rs, unless other Polyvalue Bel Thin Dark Su Loamy Mucky Loamy Gleye Depleted Mat Redox Dark S Depleted Dar Redox Depre Marl (F10) (L Depleted Oct Iron-Mangane Umbric Surfa Delta Ochric Reduced Ver Piedmont Flo	2 2 2 3 S=Masked wise note low Surface (S9) / Mineral (d Matrix (I drix (F3) Surface (F6 k Surface ssions (F6 RR U) nric (F11) ese Masse ce (F13) ((F17) (ML tic (F18) (loodplain S	Sand Gradd.) Ce (S8) (L (LRR S, (F1) (LRR F2) (MLRA 1 es (F12) (LRR P, T RA 151) MLRA 15 oils (F19)	Ains. RR S, T, T, U) 51) LRR O, P (MLRA 1	2Location: PL=P. Indicators for Pr U) 1 cm Muck (A Reduced Ver Planding File Anomalous E (MLRA 153 Red Parent M Very Shallow Other (Expla	ore Lining, M=Matrix. oblematic Hydric Soils³: A9) (LRR O) A10) (LRR S) tic (F18) (outside MLRA 150A,E odplain Soils (F19) (LRR P, S, T tright Loamy Soils (F20) BB) Material (TF2) To Dark Surface (TF12) in in Remarks) of hydrophytic vegetation and ydrology must be present, sturbed or problematic.



Wetland data point wwio004f_w facing north.

Project/Site: ACP	City/County: Wilson Sampling Date: 4/17/15
Applicant/Owner: Dominion	State: NC Sampling Point: Wwio 004e
Investigator(s): ESI-R. Turnbull	Section, Township, Range:
Landform (hillslope, terrace, etc.): Sideslope	Local relief (concave convex none): CONCAVE Slone (%): O-2
Subregion (LRR or MLRA): LRRP Lat: 35.	74468 Long: 78.07263 Datum: W65 Se
Soil Map Unit Name: Bibb Loam	NWI classification: PEM
Are climatic / hydrologic conditions on the site typical for this time of ye	
Are Vegetation, Soil, or Hydrology significantly	
Are Vegetation, Soil, or Hydrology naturally pr	· · · · · · · · · · · · · · · · · · ·
	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: Dato Point taken on edge of	Is the Sampled Area within a Wetland? Yes No
Darrot Form	
LIVERALANI	-
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Aquatic Fauna (B:	
Surface Water (A1) Aquatic Fauna (B) High Water Table (A2) Marl Deposits (B1	
Saturation (A3) Hydrogen Sulfide	
m2/	heres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Redu	
Drift Deposits (B3)	ction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	e (C7) Geomorphic Position (D2)
Iron Deposits (B5)	Remarks) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9) Field Observations:	Sphagnum moss (D8) (LRR T, U)
Surface Water Present? Yes No Depth (inche	or NA
Water Table Present? Yes No Depth (inche	s). >20"
Saturation Present? Yes No Depth (inche	s):
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial pho	tos, previous inspections), if available:
Remarks:	
portions of wetland inunda	ated
·	
	,

300.3001	Absolute	Dominant	Indicator	Dominance Test worksheet:		i
Tree Stratum (Plot size: 30ff x 30ff)	% Cover	Species?	<u>Status</u>	Number of Dominant Species	·2	
1. None Plesent				That Are OBL, FACW, or FAC:	_3	(A)
2				Total Number of Dominant	_	
3				Species Across All Strata:	3	(B)
4				opedica / foreign / fill offacts.		(5)
5				Percent of Dominant Species	100°6	
				That Are OBL, FACW, or FAC:	100 10	(A/B)
6				Prevalence Index worksheet:		
7				Total % Cover of:	Multiply by:	
8						
	;	= Total Co	ver	OBL species x 1		
50% of total cover:	20% of	total cover	:	FACW species x 2		
Sapling/Shrub Stratum (Plot size: 30ff x 30ff)				FAC species x 3	3 =	_
4 0000 DIPSPA4				FACU species x 4	4 =	_
				UPL species x 5	5 =	_
2				Column Totals: (A))	(B)
3					· ·	_ ` ′
4				Prevalence Index = B/A =		
5	. ——			Hydrophytic Vegetation Indicat		
6				Rapid Test for Hydrophyti		
7				2 - Dominance Test is >50%	=	
8				3 - Prevalence Index is ≤3.0¹		
		= Total Co	ver	==		
50% of total cover:				Problematic Hydrophytic Veg	jetation' (Expla	un)
	20% 01	i lotal cove				
Herb Stratum (Plot size: 3014 x 3014)	76	V	Though	Indicators of hydric soil and wetla	land hydrology	must
1. Impatiens capensis	<u>35</u>		FACW	be present, unless disturbed or p	roblematic.	ļ
2. Atonomotia gigantea	. <u>- 돌</u>		FACW	Definitions of Four Vegetation	Strata:	
3. Zea mays	<u> </u>	_7	WPL	Tree Meady plants avaluation :	0 in /7.6	
4				Tree – Woody plants, excluding was more in diameter at breast height		
5.				height.	i (DDI I), regare	1033 01
				1.		İ
6				Sapling/Shrub - Woody plants, than 3 in, DBH and greater than		
7				man 3 m, DBH and greater than	3.20 II (1 III) IA	"
8	_			Herb - All herbaceous (non-woo	ody) plants, reg	ardless
9				of size, and woody plants less th	nan 3.28 ft tall.	ĺ
10				Woody vine - All woody vines g	arostor than 3.5	off in
11.				height.	greater triait 5,2	.0 11. 11
12.						
	42	= Total Co	over			
50% of total cover: 2\			er: 8.4			
30/10 of total cover	20%	i total cove	31. <u>() † 1</u>			
Woody Vine Stratum (Plot size: 30ff x30ff) 1. Smilax (04900; folio	2	V	TAC			
	- 🖳	- —	- EVC			
2 Rubus argulas	<u>_ ユ</u>		HAC	1		
3	_					
4.						
5.		-		1		
·	- 	- Total C		Hydrophytic Vegetation	/	
2		_ = Total C		Present? Yes	No	
50% of total cover:		of total cov	er; <u>010</u>			
Remarks: (If observed, list morphological adaptations be	low).					
edge of flowed field,	CAFA CE	mnout	s presen	vin wetland.		
leage of flowed field,	20111		ì			
,						
				•		
1						

Profile Description: (Describe to the depth needed to document the indicator or conf	irm the absence of indicators.)
Depth Matrix Redox Features	,
(inches) Color (moist) % Color (moist) % Type ¹ Loc ²	Texture Remarks
0-20 loye 2/1 100	L
'Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
☐ Histosol (A1) ☐ Polyvalue Below Surface (S8) (LRR S,	
Histic Epipedon (A2) Thin Dark Surface (S9) (LRR S, T, U)	2 cm Muck (A10) (LRR S)
Black Histic (A3) Loamy Mucky Mineral (F1) (LRR O)	Reduced Vertic (F18) (outside MLRA 150A,B)
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2)	Piedmont Floodplain Soils (F19) (LRR P, S, T)
Stratified Layers (A5) Depleted Matrix (F3)	Anomalous Bright Loamy Soils (F20)
Organic Bodies (A6) (LRR P. T. U) Redox Dark Surface (F6)	(MLRA 153B)
5 cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7)	Red Parent Material (TF2)
Muck Presence (A8) (LRR U) Redox Depressions (F8)	Very Shallow Dark Surface (TF12)
1 cm Muck (A9) (LRR P, T) Marl (F10) (LRR U)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151)	
Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O	, P, T) ³ Indicators of hydrophytic vegetation and
Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U)	wetland hydrology must be present,
Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151)	unless disturbed or problematic.
Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 15	0B)
Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA	
Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (N	/ILRA 149A, 153C, 153D)
Dark Surface (S7) (LRR P, S, T, U)	,
Restrictive Layer (if observed):	
Type:	
Depth (inches):	Hydric Soil Present? Yes No
Remarks:	Tryano con Frederici Tes No
Tremane.	
	_
	• •
,	
I	



Wetland data point wwio004e_w facing east.

wwio 004_4

Project/Site: ACP	City/County: Wilson Sampling Date: 7 July 2014
Applicant/Owner: Dominion	State: NC Sampling Point: Www. 004_0
	Section, Township, Range: NA
	Local relief (concave, convex, none): concave Slope (%): 5
Subregion (LRR) or MLRA): P Lat: 35.	74486 Long: 78.07270 Datum: WGS (984
Soil Map Unit Name: Bibb	
Are climatic / hydrologic conditions on the site typical for this time of year	ear? Yes A No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly	
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: Yes No Yes No Remarks:	Is the Sampled Area within a Wetland? Yes No
HYDROLOGY	
	Secondary Indicators (minimum of two required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)	
Surface Water (A1) Aquatic Fauna (B)	<u></u>
High Water Table (A2) Marl Deposits (B1	
Saturation (A3) Hydrogen Sulfide	
☐ Water Marks (B1) ☐ Oxidized Rhizosp	heres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2)	
	ction in Tilled Soils (C6)
Algal Mat or Crust (B4) Thin Muck Surface Other (Surface in	
☐ Inundation Visible on Aerial Imagery (B7)	Remarks), Shallow Aquitard (D3) FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	See Springman Mose (29)(2011-190)
Surface Water Present? Yes No _X Depth (inche	s): <u>NA</u>
Water Table Present? Yes No Depth (inche	s): > 20
Saturation Present? Yes No Depth (inche (includes capillary fringe)	Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial pho	tos, previous inspections), if available:
Remarks:	
remains.	

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

20. 20	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 20 x 30)		Species?		Number of Dominant Species
1. Quercus nigra	70	<u>y</u> _	EX_	That Are OBL, FACW, or FAC: (A)
2. Liquidambar styraciflua	_50_	<u> </u>	TAC	Total Number of Dominant
3		<u> </u>		Species Across All Strata: (B)
4				Description of Description
5				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6				(***)
7				Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
Y	120	= Total Cov		OBL species x 1 =
50% of total cover:	20% of	total cavar	. 2 4	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 15 × 15)	20700	lotal cover	· 	FAC species x 3 =
1. Clethra alnifolia	10	N	FACW	FACU species x 4 =
2. Arundinaria sicentea	70	'\	FACW	UPL species x 5 =
	$\frac{70}{5}$	<u>/</u>	FAC	Column Totals: (A) (B)
3. Quercus nigra		<u> </u>		(, (,
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0¹
	<u>ଃଚି</u>	= Total Co	ver	Problematic Hydrophytic Vegetation¹ (Explain)
ابا 2. 50% of total cover: بابا 2.	<u>5</u> 20% o	f total cover	:17	
Herb Stratum (Plot size: 5 × 5)				¹ Indicators of hydric soil and wetland hydrology must
1. Asplenium platyneuron	5	У	FACU	be present, unless disturbed or problematic.
2.				Definitions of Four Vegetation Strata:
3.				- !
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
4				height.
5				}
6				Sapling/Shrub - Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb - All herbaceous (non-woody) plants, regardless
9	-			of size, and woody plants less than 3.28 ft tall.
10		.		Woody vine - All woody vines greater than 3.28 ft in
11				height.
12				
		_= Total Co	over	
50% of total cover: 2.	5 20% (of total cove	er:	
Woody Vine Stratum (Plot size: 15 x 15)				
1 Smilax rotundistia	80	Y	FAC	
2 Vitis rotundifolia	5	N	FAC	•
2				
3				•
4				•
5		-	_	- Hydrophytic
		_ = Total Co		Vegetation Present? Yes No No No
50% of total cover: <u>42</u>	<u>.ə</u> 20%	of total cove	er: / 7	
Remarks: (If observed, list morphological adaptations be	low).			

20.046	• •	to the depth.				4 COMMAN	the absence of in	uicators.)	
Depth (inches)	Matrix Color (moist)		Color (moist)	<u>x Features</u> %	Type ¹	Loc²	Texture	Remarks	
0-20	107R4/2						LS		
	10/1-112	· — —	· ·						
		·							
		· — —				·			
		· 							-··-
	oncentration, D=Dep					ins.		Pore Lining, M=Ma	
lydric Soil	Indicators: (Applic	able to all LR	Rs, unless othe	rwise note	ed.)			roblematic Hydric	c Soils*:
Histosol			Polyvalue Be					(A9) (LRR O)	
Histic E	pipedon (A2)		🔲 Thin Dark Sເ					(A10) (LRR S)	
Black Hi	istic (A3)		Loamy Muck	y Mineral ((F1) (LRR	O)		ertic (F18) (outside	
Hydroge	en Sulfide (A4)	-	Loamy Gley	ed Matrix (I	F2)		Piedmont F	loodplain Soils (F1	9) (LRR P, S, T)
	d Layers (A5)	-	Depleted Ma	trix (F3)			Anomalous	Bright Loamy Soils	(F20)
Organic	Bodies (A6) (LRR P	, T, U) .	Redox Dark	Surface (F	6)		(MLRA 1	53B)	
	ucky Mineral (A7) (LF		Depleted Da					Material (TF2)	
Muck Pr	resence (A8) (LRR U) .	Redox Depri	essions (F	3)			w Dark Surface (TI	F12)
	uck (A9) (LRR P, T)		Mari (F10) (1				U Other (Expl	ain in Remarks)	
	d Below Dark Surfac	e (A11)	Depleted Oc				_		
	ark Surface (A12)		🔟 Iron-Mangar				 T) ³Indicators 	of hydrophytic veg	getation and
	rairie Redox (A16) (I		Umbric Surf			U)	wetland	hydrology must be	present,
Sandy N	/lucky Mineral (S1) (I	LRR O, S)	Delta Ochrid					listurbed or problen	natic.
	Gleyed Matrix (S4)		Reduced Ve	rtic (F18) (MLRA 15	0A, 150B)			
Sandy F	Redox (S5)		Piedmont F1						
	d Matrix (S6)			Bright Loar	ny Soils (l	F20) (MLR	A 149A, 153C, 153	ID)	
	ırface (S7) (LRR P, S								
Restrictive	Layer (if observed)	:							
Type:			_						
Depth (ir	iches):						Hydric Soil Pres	sent? Yes	_ No <u>×</u>
Remarks:	,	-					1		
tomarito.									
								,	



Upland data point wwio004_u facing north.

Project/Site: ACP	ity/County: Wilson Co. Sampling Date: 7 July 2014
Applicant/Owner: Dominion	State: NC Sampling Point: Wwio 00 4 f_W
	Section, Township, Range: N ft
1 /	ocal relief (concave, convex, none): CONCAUC Slope (%): 5%
Subregion (LRR or MLRA): P Lat: 35, 7	14482 Long: 78.07269 Datum: WGS 1984
Soil Map Unit Name: Bibb loam	NWI classification: PFO
Are climatic / hydrologic conditions on the site typical for this time of year	
Are Vegetation, Soil, or Hydrology significantly of	
Are Vegetation, Soil, or Hydrology naturally prot	
	sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: Yes X No No No No No No No No No No No No No	Is the Sampled Area within a Wetland? Yes
Data form taken on downline side of welland	d since upline side is agrirultural field edge.
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	
Surface Water (A1) Aquatic Fauna (B13) Aquatic Fauna (B13)	
High Water Table (A2) Marl Deposits (B15) Saturation (A3) Hydrogen Sulfide O	
	eres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2)	
Drift Deposits (B3)	ion in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	
Iron Deposits (B5) Under (Explain in Re	
Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)	M FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U)
Field Observations:	Spriagrium moss (Do) (ERA 1, U)
Surface Water Present? Yes No Depth (inches)	· NA
Water Table Present? Yes No Depth (inches)	: >20
Saturation Present? Yes No Depth (inches) (includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photo	s, previous inspections), if available:
Remarks:	

50 00	Alexa da Ae	D1	1	Daniel Tarkers de la Constitución
Tree Stratum (Plot size: 30 × 30)		Dominant		Dominance Test worksheet:
		Species?		Number of Dominant Species
1. Nyssa sylvatica	50_	<u>y</u>	FAC	That Are OBL, FACW, or FAC: (A)
2. Liquidamber styracifua	40	'ν	FA	/
		-V'		Total Number of Dominant
3. Pinus taeda	30		FAO	Species Across All Strata: (B)
4		•		. •
			· 	Percent of Dominant Species 90
5				That Are OBL, FACW, or FAC: (A/B)
6				
				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8				
	120	= Total Co	VOF	OBL species x1 =
				FACW species x 2 =
50% of total cover: <u>6</u>	20% of	f total cove	r: <u>4 </u>	
Sapling/Shrub Stratum (Plot size: 15 × 15)				FAC species x 3 =
<u> </u>	20	V	FAC	FACU species x 4 =
1. Quercus higra				I
2. Vaccinium corymbosum	5	N	FACW	UPL species x 5 =
3. Symplocus finctoria	10	\overline{V}		Column Totals: (A) (B)
	- 		EAC	
4. Arundinania gigantea	40	<u> </u>	FACW	Prevalence Index = B/A =
-		•		
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				
				2 - Dominance Test is >50%
8.				3 - Prevalence Index is ≤3.0 ¹
	75	= Total Co	over	Problematic Hydrophytic Vegetation¹ (Explain)
50% <u>of</u> total cover: <u>3</u> 7	5 0004		15	Problematic Hydrophytic Vegetation (Explain)
50% of total cover: 9 1	<u>122</u> 20% 0	it total cove	er: <u>19</u>	
Herb Stratum (Plot size: 5 × 5)				¹ Indicators of hydric soil and wetland hydrology must
1. Clethra alnifolia	5	V	FAC W.	be present, unless disturbed or problematic.
	- — —	· - 1 1/		,
	<u> </u>	<u> </u>	FAC U	Definitions of Four Vegetation Strata:
3. Arundinaria disantea	10	V	FACW	
			<u> </u>	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub - Woody plants, excluding vines, less
7	_	_		than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
				of size, and woody plants less than 3.28 ft tall.
9				or ones, and reduce, practice to the control of the
i				
10				Woody vine – All woody vines greater than 3.28 ft in
i				
10				Woody vine – All woody vines greater than 3.28 ft in
10				Woody vine – All woody vines greater than 3.28 ft in
10	20	_ = Total C	over	Woody vine – All woody vines greater than 3.28 ft in
10	20		over	Woody vine – All woody vines greater than 3.28 ft in
10	20	_ = Total C	over	Woody vine – All woody vines greater than 3.28 ft in
10	20 0 20% (_ = Total C	over er:	Woody vine – All woody vines greater than 3.28 ft in
10	20	_ = Total C	over	Woody vine – All woody vines greater than 3.28 ft in
10	20 0 20% (_ = Total C	over er: 4	Woody vine – All woody vines greater than 3.28 ft in
10	20 0 20% (_ = Total C	over er:	Woody vine – All woody vines greater than 3.28 ft in
10	20 0 20% (_ = Total C	over er: 4	Woody vine – All woody vines greater than 3.28 ft in
10	20 0 20% (_ = Total C	over er: 4	Woody vine – All woody vines greater than 3.28 ft in
10	20 0 20% (_ = Total C	over er: 4	Woody vine – All woody vines greater than 3.28 ft in
10	20 0 20% (_ = Total C	over er: 4	Woody vine – All woody vines greater than 3.28 ft in height.
10	20 0 20% (50 30	= Total Co	over er: 4 PAC FAC	Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic
10	20 0 20% 0 50 30	_= Total Coof total cov	over er: 4	Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
10	20 0 20% 0 50 30	= Total Co	over er: 4	Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
10. 11. 12. 50% of total cover: Woody Vine Stratum (Plot size: 15 x 15) 1. Smilax rotundiblia 2. Vitis rotundiblia 3. 4. 5. 50% of total cover: 4	20 0 20% 0 50 30 80 0 20%	_= Total Coof total cov	over er: 4	Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
10	20 0 20% 0 50 30 80 0 20%	_= Total Coof total cov	over er: 4	Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
10. 11. 12. 50% of total cover: Woody Vine Stratum (Plot size: 15 x 15) 1. Smilax rotundiblia 2. Vitis rotundiblia 3. 4. 5. 50% of total cover: 4	20 0 20% 0 50 30 80 0 20%	_= Total Coof total cov	over er: 4	Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
10. 11. 12. 50% of total cover: Woody Vine Stratum (Plot size: 15 x 15) 1. Smilax rotundiblia 2. Vitis rotundiblia 3. 4. 5. 50% of total cover: 4	20 0 20% 0 50 30 80 0 20%	_= Total Coof total cov	over er: 4	Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
10. 11. 12. 50% of total cover: Woody Vine Stratum (Plot size: 15 x 15) 1. Smilax rotundiblia 2. Vitis rotundiblia 3. 4. 5. 50% of total cover: 4	20 0 20% 0 50 30 80 0 20%	_= Total Coof total cov	over er: 4	Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
10. 11. 12. 50% of total cover: 1 Woody Vine Stratum (Plot size: 15 x 15) 1. Smilax rotundiblia 2. Vitis rotundifolia 3. 4. 5. 50% of total cover: 4	20 0 20% 0 50 30 80 0 20%	_= Total Coof total cov	over er: 4	Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
10. 11. 12. 50% of total cover: 1 Woody Vine Stratum (Plot size: 15 x 15) 1. Smilax rotundiblia 2. Vitis rotundifolia 3. 4. 5. 50% of total cover: 4	20 0 20% 0 50 30 80 0 20%	_= Total Coof total cov	over er: 4	Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
10. 11. 12. 50% of total cover: Woody Vine Stratum (Plot size: 15 x 15) 1. Smilax rotundiblia 2. Vitis rotundifolia 3. 4. 5. 50% of total cover: 4	20 0 20% 0 50 30 80 0 20%	_= Total Coof total cov	over er: 4	Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
10. 11. 12. 50% of total cover: 1 Woody Vine Stratum (Plot size: 15 x 15) 1. Smilax rotundiblia 2. Vitis rotundifolia 3. 4. 5. 50% of total cover: 4	20 0 20% 0 50 30 80 0 20%	_= Total Coof total cov	over er: 4	Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation

	•		o the dept				or confirm	n the absence of in	dicators.)	
Depth (inches)	Color (m	Matrix		Redo Color (moist)	x Feature	SType¹	Loc ²	Texture	Domado	
O-8	(0 TR		(Q)	Color (moist)		- Abe		SL	Remarks	
				10×4 5/11	2		<u>~~</u>			.
8-16	IDYR	4/2	<u>98</u> .	104R514	. 	. <u> </u>	<u></u>	<u> LS</u>		
16-50	10 YR	5/1	<u> 98</u>	10 YR 5/4			<u>M</u>	Coarse Sand		
				•		-				·· <u>-</u>

							.	2:		
				Reduced Matrix, MS RRs, unless other			ains.		Pore Lining, M=Matri: Problematic Hydric (
		(Applica	abie to all t			•	DD C T		-	oons :
Histosol	(AT) pipedon (A2)	1		Polyvalue Be					(A9) (LRR O) (A10) (LRR S)	
	stic (A3)	Į.		Loamy Muck					ertic (F18) (outside N	# PA 150A R
	n Sulfide (A	4)		Loamy Gleye			. •,		loodplain Soils (F19)	
	Layers (A5			Depleted Ma		· -/			Bright Loamy Soils (
	Bodies (A6)		, T, U)	Redox Dark		F6)		(MLRA 1		•
🔲 5 cm Mi	icky Mineral	(A7) (LR	RR P, T, U)	Depleted Da					t Material (TF2)	
	esence (A8))	Redox Depre		8)			ow Dark Surface (TF1	2)
	ick (A9) (LR			Marl (F10) (1	•			Uther (Exp	lain in Remarks)	
	d Below Dar		e (A11)	Depleted Oc			-	31		
	ark Surface (rairie Redox		#I DA 150A	Iron-Mangar Umbric Surfa					s of hydrophytic vege hydrology must be pr	
	lucky Miner			Delta Ochric		•	, 0)		inydrology must be pa disturbed or problema	
	Bleyed Matri		-11.11 (0, 0)	Reduced Ve			50A. 150E		nstarbed or problema	110.
_	Redox (S5)	(0.)		Piedmont Fl						
_	Matrix (S6)				-		-	RA 149A, 153C, 15	3D)	
	rface (S7) (I									
Restrictive	Layer (if ob	served):	:							
Type:									\.	
Depth (in	ches):							Hydric Soil Pre	sent? Yes_X_	No
Remarks:										
					•					



Wetland data point wwio004f_w facing north.

Project/Site: ACP	City/County: Wilson Sampling Date: 4/17/15
Applicant/Owner: Dominion	State: NC Sampling Point: Wwio 004e
Investigator(s): ESI-R. Turnbull	Section, Township, Range:
Landform (hillslope, terrace, etc.): Sideslope	Local relief (concave convex none): CONCAVE Slone (%): O-2
Subregion (LRR or MLRA): LRRP Lat: 35.	74468 Long: 78.07263 Datum: W65 Se
Soil Map Unit Name: Bibb Loam	NWI classification: PEM
Are climatic / hydrologic conditions on the site typical for this time of ye	
Are Vegetation, Soil, or Hydrology significantly	
Are Vegetation, Soil, or Hydrology naturally pr	· · · · · · · · · · · · · · · · · · ·
	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: Dato Point taken on edge of	Is the Sampled Area within a Wetland? Yes No
Darrot Form	
LIVERALANI	-
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Aquatic Fauna (B:	
Surface Water (A1) Aquatic Fauna (B) High Water Table (A2) Marl Deposits (B1	
Saturation (A3) Hydrogen Sulfide	
m2/	heres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Redu	
Drift Deposits (B3)	ction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	e (C7) Geomorphic Position (D2)
Iron Deposits (B5)	Remarks) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9) Field Observations:	Sphagnum moss (D8) (LRR T, U)
Surface Water Present? Yes No Depth (inche	or NA
Water Table Present? Yes No Depth (inche	s). >20"
Saturation Present? Yes No Depth (inche	s):
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial pho	tos, previous inspections), if available:
Remarks:	
portions of wetland inunda	ated
·	
	,

300.3001	Absolute	Dominant	Indicator	Dominance Test worksheet:		i
Tree Stratum (Plot size: 30ff x 30ff)	% Cover	Species?	<u>Status</u>	Number of Dominant Species	·2	
1. None Plesent				That Are OBL, FACW, or FAC:	_3	(A)
2				Total Number of Dominant	_	
3				Species Across All Strata:	3	(B)
4				opedica / foreign / fill offacts.		(5)
5				Percent of Dominant Species	100°6	
				That Are OBL, FACW, or FAC:	100 10	(A/B)
6				Prevalence Index worksheet:		
7				Total % Cover of:	Multiply by:	
8						
	;	= Total Co	ver	OBL species x 1		
50% of total cover:	20% of	total cover	:	FACW species x 2		
Sapling/Shrub Stratum (Plot size: 30ff x 30ff)				FAC species x 3	3 =	_
4 0000 DIPSPA4				FACU species x 4	4 =	_
				UPL species x 5	5 =	_
2				Column Totals: (A))	(B)
3					· ·	_ ` ′
4				Prevalence Index = B/A =		
5	. ——			Hydrophytic Vegetation Indicat		
6				Rapid Test for Hydrophyti		
7				2 - Dominance Test is >50%	=	
8				3 - Prevalence Index is ≤3.0¹		
		= Total Co	ver	==		
50% of total cover:				Problematic Hydrophytic Veg	jetation' (Expla	un)
	20% 01	i lotal cove				
Herb Stratum (Plot size: 3014 x 3014)	76	V	Though	Indicators of hydric soil and wetla	land hydrology	must
1. Impatiens capensis	<u>35</u>		FACW	be present, unless disturbed or p	roblematic.	ļ
2. Atonomotia gigantea	. <u>- 돌</u>		FACW	Definitions of Four Vegetation	Strata:	
3. Zea mays	<u> </u>	_7	WPL	Tree Meady plants avaluation :	0 in /7.6	
4				Tree – Woody plants, excluding was more in diameter at breast height		
5.				height.	i (DDI I), regare	1033 01
				1.		İ
6				Sapling/Shrub - Woody plants, than 3 in, DBH and greater than		
7				man 3 m, DBH and greater than	3.20 II (1 III) IA	"·
8	_			Herb - All herbaceous (non-woo	ody) plants, reg	ardless
9				of size, and woody plants less th	nan 3.28 ft tall.	ĺ
10	<u> </u>			Woody vine - All woody vines g	arostor than 3.5	offin
11.				height.	greater triait 5,2	.0 11. 11
12.						
	42	= Total Co	over			
50% of total cover: 2\			er: 8.4			
30/10 of total cover	20%	i total cove	31. <u>() † 1</u>			
Woody Vine Stratum (Plot size: 30ff x30ff) 1. Smilax (04900; folio	2	V	TAC			
	- 🖳	- —	- EVC			
2 Rubus argulas	<u>_ ユ</u>		HAC	1		
3	_					
4.						
5.		-		1		
·	- 	- Total C		Hydrophytic Vegetation	/	
2		_ = Total C		Present? Yes	No	
50% of total cover:		of total cov	er; <u>010</u>			
Remarks: (If observed, list morphological adaptations be	low).					
edge of flowed field,	CAFA CE	mnout	s presen	vin wetland.		
leage of flowed field,	Comme		ì			
,						
				•		
1						

Profile Description: (Describe to the depth needed to document the indicator or conf	irm the absence of indicators.)
Depth Matrix Redox Features	,
(inches) Color (moist) % Color (moist) % Type ¹ Loc ²	Texture Remarks
0-20 loye 2/1 100	L
'Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
☐ Histosol (A1) ☐ Polyvalue Below Surface (S8) (LRR S,	
Histic Epipedon (A2) Thin Dark Surface (S9) (LRR S, T, U)	2 cm Muck (A10) (LRR S)
Black Histic (A3) Loamy Mucky Mineral (F1) (LRR O)	Reduced Vertic (F18) (outside MLRA 150A,B)
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2)	Piedmont Floodplain Soils (F19) (LRR P, S, T)
Stratified Layers (A5) Depleted Matrix (F3)	Anomalous Bright Loamy Soils (F20)
Organic Bodies (A6) (LRR P. T. U) Redox Dark Surface (F6)	(MLRA 153B)
5 cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7)	Red Parent Material (TF2)
Muck Presence (A8) (LRR U) Redox Depressions (F8)	Very Shallow Dark Surface (TF12)
1 cm Muck (A9) (LRR P, T) Marl (F10) (LRR U)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151)	
Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O	, P, T) ³ Indicators of hydrophytic vegetation and
Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U)	wetland hydrology must be present,
Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151)	unless disturbed or problematic.
Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 15	0B)
Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA	
Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (N	/ILRA 149A, 153C, 153D)
Dark Surface (S7) (LRR P, S, T, U)	,
Restrictive Layer (if observed):	
Type:	
Depth (inches):	Hydric Soil Present? Yes No
Remarks:	Tryano con Fresenci Tes No
Tremane.	
	_
	• •
,	
I	



Wetland data point wwio004e_w facing east.

wwio 004_4

Project/Site: ACP	City/County: Wilson Sampling Date: 7 July 2014
Applicant/Owner: Dominion	State: NC Sampling Point: Www. 004_0
	Section, Township, Range: NA
	Local relief (concave, convex, none): concave Slope (%): 5
Subregion (LRR) or MLRA): P Lat: 35.	74486 Long: 78.07270 Datum: WGS (984
Soil Map Unit Name: Bibb	
Are climatic / hydrologic conditions on the site typical for this time of year	ear? Yes A No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly	
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: Yes No Yes No Remarks:	Is the Sampled Area within a Wetland? Yes No
HYDROLOGY	
	Secondary Indicators (minimum of two required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)	
Surface Water (A1) Aquatic Fauna (B)	<u></u>
High Water Table (A2) Marl Deposits (B1	
Saturation (A3) Hydrogen Sulfide	
☐ Water Marks (B1) ☐ Oxidized Rhizosp	heres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2)	
	ction in Tilled Soils (C6)
Algal Mat or Crust (B4) Thin Muck Surface Other (Surface in	
☐ Inundation Visible on Aerial Imagery (B7)	Remarks), Shallow Aquitard (D3) FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	See Springman Mose (29)(2011-190)
Surface Water Present? Yes No _X Depth (inche	s): <u>NA</u>
Water Table Present? Yes No Depth (inche	s): > 20
Saturation Present? Yes No Depth (inche (includes capillary fringe)	Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial pho	tos, previous inspections), if available:
Remarks:	
remains.	

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

20. 20	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 20 x 30)		Species?		Number of Dominant Species
1. Quercus nigra	70	<u>y</u> _	EX_	That Are OBL, FACW, or FAC: (A)
2. Liquidambar styraciflua	_50_	<u> </u>	TAC	Total Number of Dominant
3		<u> </u>		Species Across All Strata: (B)
4				Description of Description
5				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6				(***)
7				Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
Y	120	= Total Cov		OBL species x 1 =
50% of total cover:	20% of	total cavar	. 2 4	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 15 × 15)	20700	lotal cover	· 	FAC species x 3 =
1. Clethra alnifolia	10	N	FACW	FACU species x 4 =
2. Arundinaria sicentea	70	'\	FACW	UPL species x 5 =
	$\frac{70}{5}$	<u>/</u>	FAC	Column Totals: (A) (B)
3. Quercus nigra		<u> </u>		(, (,
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0¹
	<u>ଃଚି</u>	= Total Co	ver	Problematic Hydrophytic Vegetation¹ (Explain)
ابا 2. 50% of total cover: بابا 2.	<u>5</u> 20% o	f total cover	:17	
Herb Stratum (Plot size: 5 × 5)				¹ Indicators of hydric soil and wetland hydrology must
1. Asplenium platyneuron	5	У	FACU	be present, unless disturbed or problematic.
2.				Definitions of Four Vegetation Strata:
3.				- !
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
4				height.
5				}
6				Sapling/Shrub - Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb - All herbaceous (non-woody) plants, regardless
9	-			of size, and woody plants less than 3.28 ft tall.
10		.		Woody vine - All woody vines greater than 3.28 ft in
11				height.
12				
		_= Total Co	over	
50% of total cover: 2.	5 20% (of total cove	er:	
Woody Vine Stratum (Plot size: 15 x 15)				
1 Smilax rotundistia	80	Y	FAC	
2 Vitis rotundifolia	5	N	FAC	•
2				
3				•
4				•
5		-	_	- Hydrophytic
		_ = Total Co		Vegetation Present? Yes No No No
50% of total cover: <u>42</u>	<u>.ə</u> 20%	of total cove	er: / 7	
Remarks: (If observed, list morphological adaptations be	low).			

Oepth inches) O-20	Matrix Color (moist) 10 YR 4/2	<u></u> %	Color (moist)	x Features%	Type ¹	Loc ²	TextureLS	Remarks	
							<u></u>		
									
									
	ncentration, D=Depl					ains.		Pore Lining, M=Ma	
ydric Soil I	ndicators: (Applica	able to all LR	Rs, unless other	rwise note	ed.)			roblematic Hydri	c Soils':
Histosol			Polyvalue Be					(A9) (LRR O)	
Histic Ep	ipedon (A2)	_	🔲 Thin Dark Sւ					(A10) (LRR S)	
Black His	stic (A3)		Loamy Muck	y Mineral ((F1) (LRR	: O)		ertic (F18) (outsid	
] Hydroge	n Sulfide (A4)	-	Loamy Gleye	ed Matrix (F2)		Piedmont Fl	loodplain Soils (F1	9) (LRR P, S, T)
	Layers (A5)	-	Depleted Ma	itrix (F3)			Anomalous	Bright Loamy Soil	s (F20)
Organic '	Bodies (A6) (LRR P,	T, U)	Redox Dark	Surface (F	6)		(MLRA 1	53B)	
	cky Mineral (A7) (LF		Depleted Da					Material (TF2)	
Muck Pro	esence (A8) (LRR U) .	Redox Depre	essions (F	8)			w Dark Surface (T	F12)
	ck (A9) (LRR P, T)		Mari (F10) (1				U Other (Expl	ain in Remarks)	
	i Below Dark Surface	e (A11)	Depleted Oc						
	ırk Surface (A12)		🔟 Iron-Mangar				 T) ³Indicators 	of hydrophytic ve	getation and
Coast Pr	rairie Redox (A16) (M	/ILRA 150A)	Umbric Surfa			, U)	wetland	hydrology must be	e present,
Sandy M	lucky Mineral (S1) (L	.RR O, S)	🔲 Delta Ochric					isturbed or proble	matic.
Sandy G	ileyed Matrix (S4)		Reduced Ve	rtic (F18) ((MLRA 15	0A, 150B)			
Sandy R	ledox (S5)		Piedmont Fl						
	Matrix (S6)		∐ Anomalous I	Bright Loar	my Soils (F20) (MLR	A 149A, 153C, 153	D)	
	rface (S7) (LRR P, S								
estrictive l	_ayer (if observed):								
Type:									
Depth (inc	ches):		_				Hydric Soil Pres	sent? Yes	_ № <u>×</u>
Remarks:							1,		
CITICINS.									
								•	
	,								



Upland data point wwio004_u facing north.

wwi00054_w

Project/Site: ACP City/County: Wilson Co. Sampling Date: 8 July 2014
Applicant/Owner: Dominion State: NC Sampling Point: Wwio 005f.
Investigator(s): K. Markham, J. 627 Section, Township, Range: WA
Landform (hillslope, terrace, etc.): Flood plain Local relief (concave, convex, none): Concove Slope (%): 42
Subregion (LRR or MLRA): D Lat: 35.74413 Long: 78.07471 Datum: WGS 1984
Soil Map Unit Name: Bibb toam / NWI classification: PFO
V
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.
Harten de de Veneral de Porce de Veneral de
Hydrophytic Vegetation Present? Yes No Is the Sampled Area Hydric Soil Present? Yes No Westend?
Michigan Underland Underland Present Vos. No. No. No.
Remarks: Sand run-off from adjacent agricultural field impacting suits and herbaceous Vegetation
Sand run-off from adjacent asicultural field impacting soils and herbaceous
VESCHATION
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) Aquatic Fauna (B13) Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Mari Deposits (B15) (LRR U) Drainage Patterns (B10)
☑ Saturation (A3) ☐ Hydrogen Sulfide Odor (C1) ☐ Moss Trim Lines (B16) ☐ Water Marks (B1) ☐ Oxidized Rhizospheres along Living Roots (C3) ☐ Dry-Season Water Table (C2)
User Marks (B1) User Marks (B1) <td< td=""></td<>
Drift Deposits (B2) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface (C7) Geomorphic Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in Remarks) ☐ Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)
☐ Water-Stained Leaves (B9) ☐ Sphagnum moss (D8) (LRR T, U)
Field Observations: Surface Water Present? Yes No >> Depth (inches): NA
97 7 M
(includes capillary fringe)
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks:
·

	Absoluto	Dominant	Indiantor	Daminanaa Taat waadahaati
Tree Stratum (Plot size: 30 × 30)		Species?		Dominance Test worksheet:
		Species		Number of Dominant Species 5
1. <u>Liriodendron</u> tulipifera	<u> 50</u>	<u></u>	FACL	That Are OBL, FACW, or FAC: (A)
2. Betula nigra	10	Ν̈́	FACW	
3. Quercus nicra	5	<u></u>	FAC	Total Number of Dominant
		- / V		Species Across All Strata: (B)
4. Quereus alba	15	_ <u>/v</u> _	EACH	Demand of Deminant Service Ct.
5. Acer rubrum	5	Ν.	FAC	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
`		_ <u>N</u> _	FAC	That Are OBL, FACW, or FAC: (A/B)
6. Itex opaca			1-14C	Prevalence index worksheet:
7				i
8				Total % Cover of: Multiply by:
o				OBL species x 1 =
		= Total Co	ver	1
50% of total cover: 4 5	20% of	f total cover	r: 18	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 15 x/5)				FAC species x 3 =
	,	v.I	D. a	FACU species x 4 =
1. Acer rubrum	_5_		FAC	
2. Liquidambar styraciflus 2. Liquidambar styraciflus 2. Liquidambar styraciflus	(Ň.	FAC	UPL species x 5 =
3. Liaustrum sinense	2	N	· 	Column Totals: (A) (B)
3. LIGWINAM SINENCE	. <u> </u>	<u> </u>	FAC	
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8			- ——	☐ 3 - Prevalence Index is ≤3.0 ¹
4.		= Total Co	ver	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% o	f total cove	er: 1.6	
Herb Stratum (Plot size: 5 x 5)				
l	0.	1/		¹Indicators of hydric soil and wetland hydrology must
1. <u>Liquetrum sinense</u>	25	. <u> </u>	<u> FAC</u>	be present, unless disturbed or problematic.
2. Campsis radicans		N .	FAC	Definitions of Four Vegetation Strata:
•			- -	Dominicono or Four Fogotation Octube.
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
				height.
5				1
6				Sapling/Shrub - Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb - All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				
				1100dy Time - All Woody Vines greater than 6.20 it in
11				height.
12				
	- 4	Talalo		
,	-50	_ = Total C	,	
50% of total cover:	2 0% c	of total cove	er: <u>6</u>	
Woody Vine Stratum (Plot size: 15 x 15)				
	,_	W	-4	
1. Campsis radicans	<u> 15 </u>	<u> </u>	_ 14 C	.
2 Lonicera japonica	15	V	MAC	
3 Smilax rotundifolia	15	- \(\(\) \'	FAC	-
3. JANUAR TOWNSON	_ _ ' _			- }
4	_			
5.				
9,				- Hydrophytic
	75	_ = Total C	over	Vegetation
50% of total cover:	· S 20%	of total cov	er 9	Present? Yes No No
Remarks: (If observed, list morphological adaptations be	elow).		•	
!				
L .				

Profile Desc	ription: (Describe t	o the depti	needed to docum	nent the i	ndicator	or confirm	the absence of inc	licators.)
Depth	Matrix			x Features	s	·		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	_Loc ²	<u>Texture</u>	Remarks
0-2	107R 5/3						sand_	
2-16	10 YR 4/1	98	104R 5/4	2	<u>_</u>	W	SCL	
16-22	104R 5/2	95	10 YR 5/6	5		\overline{M}		
	1011		[5]1-57	· ——				
					. 			
	-							_
l 								
	oncentration, D=Dep					ains.	² Location: PL=F	Pore Lining, M=Matrix.
l	Indicators: (Application	able to all L						roblematic Hydric Soils ³ :
Histosoi			Polyvalue Be					A9) (LRR O)
	pipedon (A2)		Thin Dark Su					A10) (LRR S)
l ==	istic (A3)		Loamy Muck			(0)		rtic (F18) (outside MLRA 150A,B)
	en Sulfide (A4)		Loamy Gleye		(F2)			oodplain Soils (F19) (LRR P, S, T)
	d Layers (A5) Bodies (A6) (LRR P	T 10	Depleted Ma		E6)			Bright Loamy Soils (F20)
	ucky Mineral (A7) (LFR P		Depleted Da	,	•		(MLRA 15	зв) Material (ТF2)
1 =	resence (A8) (LRR U	-	Redox Depre					w Dark Surface (TF12)
I ==	uck (A9) (LRR P, T)	,	Marl (F10) (L	•	~ <i>)</i>			ain in Remarks)
 	d Below Dark Surfac	e (A11)	Depleted Oc		(MLRA 1	51)	Curci (Expir	
. = .	ark Surface (A12)	- ()	Iron-Mangan			•	T) ³ Indicators	of hydrophytic vegetation and
	rairie Redox (A16) (I	/ILRA 150A				•	•	nydrology must be present,
_	Mucky Mineral (S1) (I		🔲 Delta Ochric		-	-		sturbed or problematic.
☐ Sandy (Gleyed Matrix (S4)		Reduced Ve	rtic (F18)	(MLRA 1	50A, 150B)	ı	
Sandy i	Redox (S5)		Piedmont Flo					
	d Matrix (S6)		Anomalous l	Bright Loa	my Soils	(F20) (MLR	A 149A, 153C, 153	D)
	uface (S7) (LRR P, S							
Restrictive	Layer (if observed)	:						
Type:								
Depth (ir	nches):		<u> </u>				Hydric Soil Pres	ent? Yes X No
Remarks:	<u> </u>				-		<u> </u>	
1								
1								
1								
			•					



Wetland data point wwio005f_w facing north.

wwio 005_u

Project/Site: ACP	City/County: U	uilson co.	Sampli	ng Date: 8 July 201
Applicant/Owner: Dominion	0.0,000,	State:	NC Sampli	ng Point: Www.0005_0
Investigator(s): K. Markham / J. 697	Section, Townsh	ip. Range: NA	-	
Landform (hillslope, terrace, etc.): Terrace				Slope (%): <2
Subregiop (LRR or MLRA): Lat:	35.74419	Long: 78,	07458	Datum: WGS 1984
Soil Map Unit Name: Varina loamy sand			IWI classification:	∧
Are climatic / hydrologic conditions on the site typical for this time	\ /			
Are Vegetation, Soil, or Hydrology signific	-		•	Yes No
Are Vegetation, Soil, or Hydrology natura			any answers in Re	
SUMMARY OF FINDINGS – Attach site map sho			-	
2			<u> </u>	
Hydrophytic Vegetation Present? Yes No	l is die ca	mpled Area		ا ر
Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	within a	Wetland?	Yes N	• <u> </u>
Remarks:	Δ			
Trongaro				
				į
HYDROLOGY	-			
Wetland Hydrology Indicators:		Seco	ndary Indicators (m	inimum of two required)
Primary Indicators (minimum of one is required: check all that a	(ylagı	<u></u> :	Surface Soil Cracks	(B6)
Surface Water (A1) Aquatic Faur		_		Concave Surface (B8)
	s (B15) (LRR U)		Drainage Pattems (I	
	ulfide Odor (C1)		Moss Trim Lines (B1	
	izospheres along Living		Dry-Season Water 1	
	Reduced Iron (C4)		Crayfish Burrows (C	8) n Aerial Imagery (C9)
☐ Drift Deposits (B3) ☐ Recent Iron ☐ Algal Mat or Crust (B4) ☐ Thin Muck S	Reduction in Tilled Soil		Saturation visible of Geomorphic Positio	
	in in Remarks)		Shallow Aquitard (D	· ·
Inundation Visible on Aerial Imagery (B7)		P-10-1	FAC-Neutral Test (E	
Water-Stained Leaves (B9)			Sphagnum moss (D	·
Field Observations:				
Surface Water Present? Yes No Depth (/	_		
Water Table Present? Yes No Depth (LA.
Saturation Present? Yes No Depth ((Includes capillary fringe)	inches): > 20	_ Wetland Hydro	ology Present? You	es No_ X
Describe Recorded Data (stream gauge, monitoring well, aeria	al photos, previous insp	ections), if available	e:	
				<u> </u>
Remarks:	•			
•				

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

Sampling Point: WW10005_u

Tree Stratum (Plot size: 30 × 30)		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 x 20) 1. Prunus serofina	<u>% Cover</u>	Species?	FACU	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2		7	P11001	MacAie OBL, FACW, OF FAC.
3				Total Number of Dominant Species Across All Strata: (B)
4				,,
5				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6.				
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
		= Total Cov	_	OBL species x1 =
50% of total cover:	20% of	f total cover	: <u><</u>	FACW species x 2 = FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 15 x15)				FACU species 10 x4 = 40
1. Non e				UPL species x 5 =
2				Column Totals: 10 (A) 40 (B)
3				
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹
<u> </u>		= Total Co	ver	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:				Froblematic Hydrophytic Vegetation (Explain)
Herb Stratum (Plot size: 5 x 5)				¹ Indicators of hydric soil and wetland hydrology must
1. None				be present, unless disturbed or problematic.
2				Definitions of Four Vegetation Strata:
3				Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub - Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10.				Woody vine – All woody vines greater than 3.28 ft in
11 12.		-		height.
12.	8	_ = Total Co	wer	
50% of total cover:	•	of total cove		
Woody Vine Stratum (Plot size: 15 715)				-
1. None				
2.				<u> </u>
3				-
4		_		_
5				- Hydrophytic
,	<u></u>	_ = Total C		Vegetation Present? Yes No _X
50% of total cover:		of total covi	er:	- riesentri ies No _/
Remarks: (If observed, list morphological adaptations be	low).			
Edge of Tobacco Reld				
- · · · · ·				

Profile Desc	ription: (Describe	to the depth	neede	d to docum	ent the i	ndicator	or confirm	the absence of	indicators.)
Depth	Matrix		0-1		<u>Features</u>		1 2	- .	
(inches)	Color (moist) (0 YR 5/3	<u></u>	Color	(moist)	%	_Type ¹	_Loc ²	Texture	Remarks
				1111				_Sand	
9-18	104R 4/2		LOYR		_2_	<u> </u>	<u>_</u> M	sand	
18-22	10YR 4/2	_50_	IDYR	5/2	_50_	_C_	_ M_	<u>sand</u>	
	· · · · · · · · · · · · · · · · · · ·								
	oncentration, D=Dep						ains.		=Pore Lining, M=Matrix.
	Indicators: (Application	able to all L				· -			r Problematic Hydric Soils ³ :
Histosol	r (A1) pipedon (A2)		=	olyvalue Bel ain Dark Su				• 🖂	ck (A9) (LRR O)
	istic (A3)			amy Mucky					ck (A10) (LRR S) Vertic (F18) (outside MLRA 150A,B)
_	en Sulfide (A4)		=	amy Gleye			,		Floodplain Soils (F19) (LRR P, S, T)
Stratifie	d Layers (A5)		==	epleted Mat		•			us Bright Loamy Soils (F20)
	Bodies (A6) (LRR P		☐ R	edox Dark 9	Surface (F	6)		(MLRA	153B)
	ucky Mineral (A7) (L F		_	epleted Dar					ent Material (TF2)
	resence (A8) (LRR U)	=	edox Depre	•	8)			llow Dark Surface (TF12)
_	uck (A9) (LRR P, T) d Below Dark Surfac	ο (Δ11)	=	arl (F10) (L epleted Och	-	/MI PA 1	51)	Utner (Ex	oplain in Remarks)
! = '	ark Surface (A12)	5 (ATT)	=	on-Mangani		-	•	T) ³ Indicate	ors of hydrophytic vegetation and
	rairie Redox (A16) (N	MLRA 150A)	_	mbric Surfa				•	nd hydrology must be present,
_	Mucky Mineral (S1) (I			elta Ochric					s disturbed or problematic.
ı ==	Gleyed Matrix (S4)		☐ R	educed Ver	tic (F18) (MLRA 1	0A, 150B)		•
	Redox (S5)		_	edmont Flo	•	٠	•	•	
1 ===	d Matrix (S6)		LL A	nomalous B	Bright Loa	my Soils (F20) (MLR	A 149A, 153C, 1	53D)
	urface (S7) (LRR P, S Layer (if observed):								
Type:	Layer (ii observeu).	•						1	
	nches):		_					Hydria Cail D	resent? Yes NoX
D	····-								
nemarks.	Soil matrix	likolu	ه: لم	Luchal	۵	10	agric	ralf usal	practical
	3011 1100117	1111017	٠,	3,01065	. 40%			.0110101	riae ices
ļ									
1									



Upland data point wwio005_u facing north.

Project/Site: ACP	city/county: Wilson Co	Sampling Date: 8 July 2014 State: NC Sampling Point: WW10006f-W
Applicant/Owner: Dominion		State: NC Sampling Point: WWIO DOGF-W
Investigator(s): K. Markham, J. Gay	Section, Township, Range:	NA
A	Local relief (concave, convex,	A 1
Subregion (LRR) or MLRA): Lat:	73945 Long:	
Soil Map Unit Name: Bibb loam		NWI classification: PFO
Are climatic / hydrologic conditions on the site typical for this time of ye	ar? Yes X No (
Are Vegetation, Soil, or Hydrology significantly		Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally pro		explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing		
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks:	Is the Sampled Area within a Wetland?	Yes No
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)	•	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) High Water Table (A2) High Water Table (A2)		Drainage Patterns (B10)
✓ Saturation (A3) ✓ Hydrogen Sulfide of District Control of the Property of the Prop	peres along Living Roots (C3)	☐ Moss Trim Lines (B16) ☐ Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Redu		Crayfish Burrows (C8)
	ction in Tilled Soils (C6)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	` '	Geomorphic Position (D2)
Iron Deposits (B5) Uther (Explain in F	Remarks)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)		FAC-Neutral Test (D5)
		Sphagnum moss (D8) (LRR T, U)
Surface Water Present? Yes No X Depth (inches	a: NA	
Water Table Present? Yes No Depth (inches		
Saturation Present? Yes X No Depth (inches	· 	Hydrology Present? Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photostation)	os, previous inspections), if av	allable:
	,,	
Remarks:		
		İ
-		

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

20 20	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:30 × 30)		Species?		Number of Deminent Cossics
1. Nyssa sylvatica	50	Y	FAC	That Are OBL, FACW, or FAC: (A)
2. Livio dendon tulipifera	50	74	FACH	
			T T C UI	Total Number of Dominant
3				Species Across All Strata: (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: (A/B)
6				
				Prevalence index worksheet:
7				Total % Cover of: Multiply by:
8				OBL species x 1 =
₽ \	100	= Total Cov	/er	
50% of total cover: 50	20% of	total cover	: <u>20 </u>	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 15 x 15)				FAC species x 3 =
· I has a been a min a constant	25	У	FAL	FACU species x 4 =
	40		FAC	UPL species x 5 =
2. Iller opaca	<u> </u>		I MC	Column Totals: (A) (B)
3.				(-)
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6.				
				- Rapid Test for Hydrophytic Vegetation
7		-		2 - Dominance Test is >50%
8				☐ 3 - Prevalence Index is ≤3.01
		= Total Co		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 32.5	20% o	f total cover	r: 13	
Herb Stratum (Plot size: 5 x 5)				The disease of booking and conditioned booking and according
1. Ligustum sinense	5	V	FM	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Cilar rob 2011	- 	- 	-0	
2. Smilax rotundifilia	. ——		FIL	Definitions of Four Vegetation Strata:
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub - Woody plants, excluding vines, less
7			. ——	than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				
	-			Woody vine – All woody vines greater than 3.28 ft in
11		· —		height.
12.				
1	6_	_= Total Co	over.	
50% of total cover:	20% (of total cove	er: 1.2	
Woody Vine Stratum (Plot size: 15 x 15)				
1. Vitis rotunditalia	20	M	FRC	
		- - '/	<u> </u>	•
2				<u>-</u>
3				_
4.				
5				1
0	20			- Hydrophytic
	· —	_ = Total C	4.3	Vegetation Present? Yes No
50% of total cover:	20%	of total cove	er: 	- 11636Htt 163 110
Remarks: (If observed, list morphological adaptations be	ow).			
	·			
-				

Profile Desc	ription: (Describe to	o the dept	h needed to docum	ent the i	ndicator	or confirm	the absence of in	dicators.)
Depth	<u>Matrix</u>			Features		12	Touton	Daniel III
(inches) 0 - (g	Color (moist)		Color (moist)		Type	Loc ²	Texture	Remarks
			10×9 5/1		- -		<u> </u>	
6-17	10 YR 4/1	<u>90</u> .	10YR 5/1	_5_	7	<u>M</u>		
			10 YR 5/4	5		<u>M</u>		
17-24	2.54 6/2	98	10 YR 5/6	_2		M	<u>LS</u>	
								-
								I
	oncentration, D=Depl					ains.		Pore Lining, M=Matrix.
I <u> </u>	Indicators: (Applica	ins or sici			•	DD 0 T 1		Problematic Hydric Soils ³ :
Histosol	i (A1) pipedon (A2)		Polyvalue Bel					(A9) (LRR O) (A10) (LRR S)
	istic (A3)		Loamy Mucky		-	-		ertic (F18) (outside MLRA 150A,B)
	en Sulfide (A4)		Loamy Gleye			. 0,		Floodplain Soils (F19) (LRR P, S, T)
1 	d Layers (A5)		Depleted Mat		. ,			Bright Loamy Soils (F20)
_	Bodies (A6) (LRR P,	T, U)	Redox Dark S		⁻ 6)		(MLRA 1	53B)
. =	ucky Mineral (A7) (LR							t Material (TF2)
	resence (A8) (LRR U))	Redox Depre		8)			ow Dark Surface (TF12)
	uck (A9) (LRR P, T)	***	Marl (F10) (L		44.54	-4 \	U Other (Exp	lain in Remarks)
	d Below Dark Surface	e (A11)	Depleted Och			-	31-4:	f budbud- vecetation and
· =	ark Surface (A12) rairie Redox (A16) (N	II DA 1507	☐ Iron-Mangand A) ☐ Umbric Surfa				•	s of hydrophytic vegetation and hydrology must be present,
1 7 ==	Mucky Mineral (S1) (L		Delta Ochric		•	•		disturbed or problematic.
I ==	Gleyed Matrix (S4)	.itit 0, 0)	Reduced Ver					distance of problematic.
Sandy I			Piedmont Flo					
	d Matrix (S6)						RA 149A, 153C, 15	3D)
	urface (S7) (LRR P, S							
Restrictive	Layer (if observed):							
Type:								\
Depth (ir	nches):						Hydric Soil Pre	sent? Yes No
Remarks:								•
1								
								.



Wetland data point wwio006f_w facing west.

Project/Site: ACP	City/County: Wilson Co. Sampling Date: 8 July 2014
Applicant/Owner: Pominion	State: NC Sampling Point: wwio 00 6-w
Investigator(s): K. Markham, J. Gay	Section, Township, Range: NA
Carbonian (CD) at ILDA	Local relief (concave, convex, none): CDV 7 VC Slope (%): 10 73957 Long: 78.07845 Datum: WGS (984)
Soil Map Unit Name: Blob loam	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of year	
Are Vegetation, Soil, or Hydrology significantly	
Are Vegetation, Soil, or Hydrology naturally pr	
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes No	within a Wetland? Yes No
Wetland Hydrology Present? Yes No	
Remarks:	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply	
Surface Water (A1) Aquatic Fauna (B	·
High Water Table (A2)	
☐ Saturation (A3) ☐ Hydrogen Sulfide	
	oheres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Redu	
\ 	` '
☐ Algal Mat or Crust (B4) ☐ Thin Muck Surfact ☐ Iron Deposits (B5) ☐ Other (Explain in	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No Depth (inche	es): <u>NA</u>
Water Table Present? Yes No Depth (inche	as): <u>>20</u>
Saturation Present? Yes X No Depth (inche	es): 18 Wetland Hydrology Present? Yes No 🔀
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial pho	otos previous inspections) if available:
Describe Necotaed Pata (stream gauge, montoring work, gond p.m.	you, provided independently in training
Remarks:	
Tromano.	
	İ

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

20 ~ 20	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 x 30)		Species?		Number of Dominant Species That Are OBL FACW or FAC: (A)
1. <u>Liquidanbar</u> styraciflua	50		FAC	That Are OBL, FACW, or FAC: (A)
2. Nyssa sylvatica	25	 _	FAC	Total Number of Dominant
3. Ruerous stellata	25	<u> </u>	UPL	Species Across All Strata: (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7				
8				Total % Cover of: Multiply by:
_	100	= Total Cov	er	OBL species x1 =
50% of total cover: <u>5 υ</u>	20% of	total cover	20	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 15×15)				FAC species x 3 =
1. <u>Liaustrum sinense</u>	_50_	<u> </u>	FAC	FACU species x 4 =
2. Tlex opaca	30	Ÿ	FAC	UPL species x 5 =
3. Acer rubrum .	_10	<u>_K_</u>	FAC	Column Totals: (A) (B)
4. <u>Clethra</u> alnifolia	10		FACW	Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6.				Rapid Test for Hydrophytic Vegetation
7.				2 - Dominance Test is >50%
8.				l
<u> </u>	100	= Total Cov		3 - Prevalence Index is ≤3.0¹
50% of total cover: 50%				Problematic Hydrophytic Vegetation¹ (Explain)
Herb Stratum (Plot size: 5 × 5)	20/60	i total cover		1
1. Clethra alaiblia	50	VI	FAC W	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
		,		
2				Definitions of Four Vegetation Strata:
3	. ——			Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of height.
5				neigrit.
6		· · · · · · · · · · · · · · · · · · · 		Sapling/Shrub - Woody plants, excluding vines, less
7	- -			than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb - All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10.			·	Woody vine - All woody vines greater than 3.28 ft in
11				height.
12		- 		
	50	= Total Co	ver	
50% of total cover: 25	20% c	of total cove	r: <u>#0</u>	,
Woody Vine Stratum (Plot size: 15x/6)				·
1. Snilax rotundifolia	(0	<u> </u>	FAC	
2		1		
3				
4.			•	
5		•		11 to the order of the
V	10	_ = Total Co		- Hydrophytic Vegetation
50% of total cover: 5		of total cove	~	Present? Yes No
			ii. <u> </u>	•
Remarks: (If observed, list morphological adaptations be	iow).			
				•

	•	•				or confirm	the absence of inc	licators.)	
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Features %	Type ¹	_Loc ²	Texture	Remark	e
0-14	10YR 4/1	(a)					LS	1,0,1,0,1,0	<u></u>
14-22			INVESTI						
1702	254 6/2	_ 99	104R 5/6		<u></u>	<u>w</u>	<u>Sand</u>		
									
			·						-
Type: C=C	oncentration D=D	— ——— enletion RM=	Reduced Matrix, M	S=Masked	Sand Gr	aine	2 ocation: Pl =	Pore Lining, M=M	atriv
			LRRs, unless othe			41110.		roblematic Hydr	
Histosol			Polyvalue Be		•	PRS TI		A9) (LRR O)	
	pipedon (A2)		Thin Dark St					(A10) (LRR S)	
	istic (A3)		Loamy Muck						le MLRA 150A,B
	en Sulfide (A4)		Loamy Gley			. 0,			19) (LRR P, S, T)
	d Layers (A5)		Depleted Ma		: -)			Bright Loamy Soi	
	Bodies (A6) (LRR	P. T. U)	Redox Dark		6)		(MLRA 15	-	15 (1 20)
	ucky Mineral (A7)		-	•	•			Material (TF2)	
	resence (A8) (LRR		Redox Depr					w Dark Surface (*	ΓF12)
	uck (A9) (LRR P, 1		☐ Marl (F10) (I		- 7			ain in Remarks)	· · · - /
	d Below Dark Surf		Depleted Oc		(MLRA 1	51)			
	ark Surface (A12)	` '	Iron-Mangar		-	-	T) ³ Indicators	of hydrophytic ve	egetation and
	rairie Redox (A16)	(MLRA 150/	_					hydrology must b	
Sandy N	Aucky Mineral (S1)	(LRR O, S)	Delta Ochric			·		sturbed or proble	
	Gleyed Matrix (S4)		Reduced Ve			0A, 150B)			
	Redox (S5)		Piedmont F1		-	_			
Stripped	d Matrix (S6)		Anomalous	Bright Loa	my Soils (F20) (MLR	RA 149A, 153C, 153	D)	
🔲 Dark Su	ırface (S7) (LRR P	P, S, T, U)						·	
Restrictive	Layer (if observe	d):						<u> </u>	
Type:				•					
Depth (in	ches):						Hydric Soil Pres	ent? Yes	NoX
Remarks:									



Upland data point wwio006_u facing west.

Project/Site: ACP	City/County:Wi	son Co.	Sampling Date: 8	July 2014
Applicant/Owner: Dominion		State: <u>NC</u>	Sampling Point: <u></u>	wio007f_w
Investigator(s): K.Markham, J.Gay	Section, Township, I	Range: NA		
Landform (hillslope, terrace, etc.): terrace	Local relief (concave	e, convex, none);	none Slope ((%): <u>< 2 %</u>
Subregion (LRB or MLRA): P Lat: 3:	5,73638	Long: -78.0	790% Datum	n: WGS 1984
Soil Map Unit Name: Rains Sandy loam			assification: PFO	
Are climatic / hydrologic conditions on the site typical for this time of	of year? Ves X No			
			ces" present? Yes	, No
Are Vegetation, Soil, or Hydrology significa				NO
Are Vegetation, Soil, or Hydrology naturally	y problematic? (ii	needed, explain any a	inswers in Remarks.)	
SUMMARY OF FINDINGS – Attach site map show	ing sampling poin	t locations, trans	ects, important fea	tures, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes No No No	within a We		No	
Remarks:				
.•			, .	
HYDROLOGY				
Wetland Hydrology Indicators:		Secondary	Indicators (minimum of tw	vo required)
Primary Indicators (minimum of one is required; check all that ap	(vlq		e Soil Cracks (B6)	
Surface Water (A1)			ely Vegetated Concave Su	ırface (B8)
	(B15) (LRR U)		ge Patterns (B10)	
Saturation (A3) Hydrogen Sulf		_	Frim Lines (B16)	
	ospheres along Living Re educed Iron (C4)		eason Water Table (C2) sh Burrows (C8)	
1 	eduction in Tilled Soils (·	tion Visible on Aerial Ima	gery (C9)
Algal Mat or Crust (B4) Thin Muck Sul	•	. —	orphic Position (D2)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Iron Deposits (B5) Other (Explain		'	w Aquitard (D3)	
☐ Inundation Visible on Aerial Imagery (B7)		☐ FAC-N	leutral Test (D5)	
Water-Stained Leaves (B9)		<u></u> Sphag	num moss (D8) (LRR T, I	U)
Field Observations:				*
Surface Water Present? Yes No Depth (in				
Water Table Present? Yes No Depth (in			Present? Yes X	
Saturation Present? Yes _X No Depth (in (includes capillary fringe)	ches):	Wetland Hydrology I	Present? Yes	No
Describe Recorded Data (stream gauge, monitoring well, aerial	photos, previous inspec	ions), if available:		
Remarks:				
	ė.			
				1
			-	

20		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30)		Species?		Number of Dominant Species That Are ORL FACW or FAC:
1. Pinus taeda			FAC	That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Species Across All Strata: (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 103 (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8	<u> </u>			OBL species x1 =
LI	0	= Total Cov		FACW species x 2 =
50% of total cover:	20% o	f total cover	16	FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 15) 1 Liguidambar stracifha	_	** *	E AA	FACU species x4 =
· · · · · · · · · · · · · · · · · · ·	<u>- 5</u> - 2	· \	FAC	UPL species x 5 =
2. Acer rubrum	- 2	<u> </u>	FAC	Column Totals: (A) (B)
3. Pubus argutus 4 Baccharis halimifolia	- - 2 -	· N	FAC	(-)
·	- <u>J.</u> 5	. <u> </u>	FAC	Prevalence Index = B/A =
5. Pinus taeda	- 	<u> </u>	FAC	Hydrophytic Vegetation Indicators:
6				- Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8	- 16	. 		3 - Prevalence Index is ≤3.0¹
		= Total Co		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% o	of total cover	r: <u>3 2</u>	
Herb Stratum (Plot size:5)		16	~A~	¹ Indicators of hydric soil and wetland hydrology must
1. Lonicera japonica	<u></u>	<u> </u>	<u> </u>	be present, unless disturbed or problematic.
2. Rubus arquitus	_ <u>_ 5</u>	<u> </u>	FAC	Definitions of Four Vegetation Strata:
3. Campis radicans	5	_ <u>'/</u> '·	FAC	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4	_			more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub - Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb - All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11.		_		height.
12				
_	15	_ = Total Co	over_	
50% of total cover: 3	<u>5</u> 20% (of total cove	er: <u>3</u>	
Woody Vine Stratum (Plot size: 30)				
1. Smilax rotundifilia	20	<u> </u>	FAC	_
2. Vitis rotundiália	10	<u> </u>	FAC	_ [
3. Gelsemium sempervirens	5	·N	FAC	
4. Rubus argutus	<u> </u>		FAC	
5.				Hudrophydio
· · · · · · · · · · · · · · · · · · ·	40	= Total Co	nver	- Hydrophytic Vegetation
50% of total cover: 20			-	Present? Yes No
Remarks: (If observed, list morphological adaptations be		Or total cove	··· O	-
Remarks. (ii observed, list morphological adaptations by	elow).			

Profile Des	cription: (Describe	to the dep	th needed to docu	ment the	indicator	or confirm	n the absence o	f Indicato	rs.)	
Depth	Matrix			x Feature	:S					
(inches)	Color (moist)	%	Color (moist)	%	Type	Loc ²	<u>Texture</u>		Remarks	
<u>0-3</u>	10423/2	160 .					<u> 5L</u>			
3-9	10424/1	<u>95</u>	104R4/4	<u>5</u>	<u></u>	М	<u>s</u> c			
9-15	10425/1	98%	10414/4	2	\subset	M	S			
15-20	10425/2	96%	101R414	2.		M	56			
15			,							
-					, ,					
				_						
				.						
¹Type: C≃C	Concentration, D=Dep	oletion, RM	=Reduced Matrix, M	S=Maske	d Sand Gr	ains.	² Location:	PL=Pore Li	ining, M=Matrix	ζ
Hydric Soll	Indicators: (Applic	able to all	LRRs, unless othe	rwise not	ted.)		indicators t	or Proble	matic Hydric S	Solls ^a :
Histoso	l (A1)		Polyvalue B	elow Surfa	ace (S8) (L	.RR S, T, I	U)1 cm M	uck (A9) (L	.RR O)	
	pipedon (A2)		Thin Dark St					uck (A10) (•	
l —	listic (A3)		Loamy Much	-		l O)				1LRA 150A,B)
	en Sulfide (A4)		Loamy Gley		(F2)				ain Soils (F19)	
. —	d Layers (A5) Bodies (A6) (LRR F	2 T III	Depleted Ma Redox Dark		E6)			ous Bright A 153B)	Loamy Soils (I	-20)
	ucky Mineral (A7) (L			•	-		•	rent Materi	ial (TF2)	
	resence (A8) (LRR I		Redox Depr						Surface (TF1)	2)
	uck (A9) (LRR P, T)	-•	Marl (F10) (I	•	-,			Explain in I	-	
	ed Below Dark Surfac	e (A11)	Depleted Oc	chric (F11)	(MLRA 1	51)				
	ark Surface (A12)		Iron-Mangar					-	irophytic veget	I
	Prairie Redox (A16) (· —			', U)		-	ogy must be pr	· 1
ı —	Mucky Mineral (S1) (LRRO, S)	_	. , .	•	OA 450D		ss disturbe	ed or problema	tic.
	Gleyed Matrix (S4) Redox (S5)		Reduced Ve Piedmont FI				•			1
i —	d Matrix (S6)			-		-	+5A) RA 149A, 153C,	153D)		
. —	urface (S7) (LRR P,	s. T. U)		Drigiti 200	, 565 (. 20/ (,		
	Layer (if observed)									
Type:			<u>-</u>							
Depth (ii	nches);						Hydric Soil	Present?	Yes V	No
Remarks:										
										•
									•	
									<i>;</i>	



Wetland data point wwio007f_w facing southwest.

wwi0007-4

Project/Site: ACP	city/County: Wilson	Co, Sampling Date: 8 July 2014
Applicant/Owner: Dominion		State: NC Sampling Point: Www.o007_C
Investigator(s): K. Markham, J. Gay	Section, Township, Range:	
Landform (hillslope, terrace, etc.): terrace	Local relief (concave, conve	ex none): NONe: Slope (%): <2
Catalogica (CD) a MLDA)	25 73/044 Long	ex, none): <u>none</u> Slope (%): <u><2</u> : 78,07904 Datum: <u>W65 1984</u>
Subregion (LRR or MLRA): Lat: Lat: Soil Map Unit Name: Rains Sandy loam	29, 1201 Colly.	
		1111 0/000110011011
Are climatic / hydrologic conditions on the site typical for this time		
Are Vegetation, Soil, or Hydrology signific		mal Circumstances" present? , Yes No
Are Vegetation, Soil, or Hydrology natural	ly problematic? (If needed	d, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map show	ving sampling point loca	tions, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes No No No No No No No No No No No No No	Is the Sampled Are within a Wetland?	Yes No
Remarks:		
HYDROLOGY		
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that a	pply)	Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Faun	a (B13)	Sparsely Vegetated Concave Surface (B8)
	s (B15) (LRR U)	☐ Drainage Patterns (B10)
	Ifide Odor (C1)	Moss Trim Lines (B16)
	zospheres along Living Roots (C: Reduced Iron (C4)	3) Dry-Season Water Table (C2) Crayfish Burrows (C8)
1 	Reduction in Tilled Soils (C6)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Si		Geomorphic Position (D2)
	in in Remarks)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)		FAC-Neutral Test (D5)
Water-Stained Leaves (B9)		Sphagnum moss (D8) (LRR T, U)
Field Observations:		
Surface Water Present? Yes No Depth (i	nches):	
Water Table Present? Yes No Depth (i	nches):	
Saturation Present? Yes X No Depth (includes capillary fringe)	·	nd Hydrology Present? Yes No X
Describe Recorded Data (stream gauge, monitoring well, aeria	I photos, previous inspections), it	f available:
Remarks:		
		•

Times Statutum (Plot size:	Tree Stratum (Plot size: 30		Dominant		Dominance Test worksheet:
2. 3. 3. 5. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.		% Cover	Species?	_Status_	Number of Dominant Species 5
Species Across Al Strata:	1. None				That Are OBL, FACW, or FAC: (A)
Species Across All Strata:	2				Total Number of Deminant
Percent of Dominant Species That Are OBL, FACW, or FAC: IQQ (A/B)					Species Across All Strata: (B)
5.					
Provalence Index worksheet: Total % Cover of: Multiply by: OBL species X 1 = FACW species X 2 = FACW species X 2 = FACW species X 3 = FACW species X 4 = FA					
Provalence Index worksheet: Tatal & Cover Sow of total cover: Sow of total cover					That Are OBL, FACVV, or FAC:(AVB)
8.					Prevalence Index worksheet:
Sabilinal/Shrub Stratum (Plot size: 15					Total % Cover of: Multiply by:
FACW species X 2 = FACW species X 3 = FACW species X 3 = FACW species X 4 = FACW species X 5 =	8	-			
Sapiling/Shrub Stratum (Piot size: 15) Column Total Stratum Total Stratum Total Stratum Total Stratum Total Stratum Total					1
1. Quertus nigra 10 state	50% of total cover:	20% of	total cover	:	1
2			u	C .	
3. Ace rubrum 5. N FA 4. S. Smell Trubrum 5. N FA 6. Shipton Trubrum 6. Shipton Trubrum 6. Shipton Trubrum 6. Shipton Trubrum 6. Shipton Trubrum 6. Shipton Trubrum 6. Shipton Trubrum 6. Shipton Trubrum 6. Shipton Trubrum 6. Shipton Trubrum 7. Shipton Trubrum 6. Shipton Trubrum 6. Shipton Trubrum 6. Shipton Trubrum 6. Shipton Trubrum 8. Shipton Trubrum 9. Shipton			<u> </u>	<u> </u>	l l
Prevalence Index = B/A =	2. Macnolia virginiana	20_	<u>' </u>	FACW	UPL species x 5 =
Prevalence Index = B/A = Hydrophytic Vegetation Indicators: Appli Test for Hydrophytic Vegetation Hydrophytic Vegetation Hydrophytic Vegetation Problematic Hydrophytic Vegetation	3. Acer rubrum	- 5	N.	FAC	Column Totals: (A) (B)
Hydrophýtic Vegetation Indicators:		• •			
6.					
7. 8. 95 = Total Cover					1 == 2
8.					
Problematic Hydrophytic Vegetation (Explain)					2 - Dominance Test is >50%
Solve of total cover: Solv	8				3 - Prevalence Index is ≤3.0¹
Solve of total cover: 1.5 20% of total cover. 1.5 20% of total cover. 1.5 20% of total cover. 1.5 20% of total cover. 1.5 20% of total cover. 1.5 20% of total cover. 1.5 20% of total cover. 2.5	پر سم	45	= Total Co	ver	Problematic Hydrophytic Vegetation ¹ (Explain)
Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Barbara – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Woody Vine Stratum (Plot size: 15)	50% of total cover:	_ 5 20% o	f total cover	. <u>/</u> [
1. NONe be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft inl. Woody vine – All woody vines greater than 3.28 ft in height. Solvent of total cover: Woody Vine Stratum (Plot size: 15) No Y FAC Campsis radicans Go Y FAC Campsis radicans Liot = Total Cover Solvent total cover: Yes No	Herb Stratum (Plot size: 5			•	Indicators of hydric call and watland hydrology must
Definitions of Four Vegetation Strata: 3.					be present, unless disturbed or problematic.
Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Woody vine Stratum (Plot size: 15) Niñs rofundi folia 20 Y FAC Smilex rofundi folia 20 Y FAC Campsis radicans GO Y FAC Hydrophytic Vegetation Present? Yes No	•				
## A:					Deminitions of Four Fegetation Strata.
height. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.					
6. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. 8. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. 50% of total cover: 20% of total cover: height. Woody Vine Stratum (Plot size: 15) 1. Viñs rotundibia 20 Y FAC 2. Smilex rotundibia 20 Y FAC 3. Campsis radicans GO Y FAC 4. 5. Hydrophytic Vegetation Present? Yes No No					
Than 3 in. DBH and greater than 3.28 ft (1 m) tall.					. Teigni.
8	6	_			
8	7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
9					Herh — All herhacenus (non-woody) plants, regardless
Woody vine – All woody vines greater than 3.28 ft in height. Solution Plot size: 15					
11					
12.					
Solition Solition					. neight.
50% of total cover: 20% of total cover: Woody Vine Stratum (Plot size: 15) 1. Vitis rotundifolia 20 Y FAC 2. Smilex rotundifolia 20 Y FAC 3. Campsis radicans 60 Y FAC 4. 5.	12		-	-	-
Woody Vine Stratum (Plot size: 15) 1. Vitis rotundifolia 20 Y FAC 2. Smilax rotundifolia 20 Y FAC 3. Campsis radicans 60 Y FAC 4.			_		· ·
1. Vitis rotundifolia 20 Y FAC 2. Smilax rotundifolia 3. Campsis radicans 4. 5. 100 = Total Cover Vegetation Present? Yes No No 100 Present?		20% c	of total cove	r:	-
2. Smilax rotundifolia 20 Y FAC 3. Campsis radicans 4. 5.	1 110001 1 1110 0 11 0 11 0 11 0 11 0	Λ-			
3. Campsis radicans 4. 5. 100 = Total Cover Vegetation Present? Yes No No No No No No No No No No No No No			<u> </u>	<u> </u>	_
4	2. Smilax rotundifolia	20	' y	FAC	
4	3 Campsis radicans	(6)	<u> </u>	FM	-
101) = Total Cover Vegetation 50% of total cover: 20% of total cover: Yes No No	4				-
101) = Total Cover Vegetation 50% of total cover: 20% of total cover: Yes No No	4				-
50% of total cover: 50 20% of total cover: 7 Yes No	5	101	-	_	
50% of total cover. 50° 20% of total cover.		100	_ = Total Co	over	
Remarks: (If observed, list morphological adaptations below).	50% of total cover: _5(20%	of total cove	er: 	- resent: res_v_ no
	Remarks: (If observed, list morphological adaptations be	elow).			

	ription: (Describe t	o the dep	th needed to docur	nent the ir	idicator o	or confirm	the absence	of indicator	·s.)	l
Depth	Matrix			x Features						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc2	<u>Texture</u>		Remarks	
0-8	104K-3/2		 				<u> </u>	UP C	incoated s	and grains
8-16	10 4k 4/1		03/8//-				<u> 5L</u>			
16-18	10 VR 4/1	95	10YR 5/3	_5_	<u> </u>	<u></u>	<u>SL</u>			
18-24	10 YR 6/1	50	10 YR 4/2	30	$\overline{\mathcal{D}}$	<u>M</u>	<u> 5L</u>			
			10 YK 5/4	20		M				
									-	
¹ Type: C=Cr	oncentration, D=Dep	letion RM:		- ——— S=Masked	Sand Gra		2l ocation	P1 =Pote Li	ning, M=Matrix	,
	ndicators: (Application					1110.			natic Hydric S	
Histosol			Polyvalue Be		-	RR S, T, U		luck (A9) (L	-	
l ===	oipedon (A2)		Thin Dark Su					łuck (A10) (•	
📗 Black Hi			Loamy Muck	-		(O)				ILRA 150A,B)
· ·	n Sulfide (A4)		Loamy Gleye		F2)		1 1		in Soils (F19)	I
	l Layers (A5) Bodies (A6) (LRR P	T 10	Depleted Ma	` '	·6)			ilous Bright RA 153B)	Loamy Soils (F	-20)
	icky Mineral (A7) (LF			-	•		<u> </u>	arent Materi	al (TF2)	i
	esence (A8) (LRR U		Redox Depre						Surface (TF1)	2) .
I 8 77 - .'	ick (A9) (LRR P, T)		☐ Marl (F10) (L				Other	(Explain in F	Remarks)	
	Below Dark Surfac	e (A11)	Depleted Oc				_, 3, .,			
· =	ark Surface (A12) rairie Redox (A16) (N	AI DA 150	☐ Iron-Mangar A) ☐ Umbric Surfa					_	lrophytic veget ogy must be pr	•
 	lucky Mineral (S1) (I		Delta Ochric			, 0,		_	d or problemat	
	Bleyed Matrix (S4)	0, 0,	Reduced Ve			iOA, 150B)		oco dicialbo	a or problema	
_	Redox (S5)		Piedmont FI			-				
	Matrix (S6)			Bright Loar	my Soils (F20) (MLF	RA 149A, 153C	, 153D)		į
	rface (S7) (LRR P, S	3. T. U)								
	المعمورة والأحام والأرام									
_	Layer (if observed)			•						
Type:							Hydric Soil	Procent?	Voc	No. X
Type: Depth (in	Layer (if observed)						Hydric Soil	Present?	Yes	No <u>X</u>
Type:							Hydric Soil	Present?	Yes	No_X_
Type: Depth (in							Hydric Soil	Present?	Yes	NoX
Type: Depth (in			,				Hydric Soil	Present?	Yes	No_X_
Type: Depth (in							Hydric Soil	Present?	Yes	No_X_
Type: Depth (in			,				Hydric Soil	Present?	Yes	No <u>X</u>
Type: Depth (in			,				Hydric Soil	Present?	Yes	NoX
Type: Depth (in			,				Hydric Soil	Present?	Yes	No_X_
Type: Depth (in			,				Hydric Soil	Present?	Yes	No <u>X</u>
Type: Depth (in			,				Hydric Soil	Present?	Yes	No <u>X</u>
Type: Depth (in			,				Hydric Soil	Present?	Yes	No <u>X</u>
Type: Depth (in			,				Hydric Soil	Present?	Yes	No <u>X</u>
Type: Depth (in			,				Hydric Soil	Present?	Yes	No <u>X</u>
Type: Depth (in			,				Hydric Soil	Present?	Yes	No X
Type: Depth (in			,				Hydric Soil	Present?	Yes	No X
Type: Depth (in							Hydric Soil	Present?	Yes	No X
Type: Depth (in							Hydric Soil	Present?	Yes	No <u>X</u>
Type: Depth (in			,				Hydric Soil	Present?	Yes	No X
Type: Depth (in							Hydric Soil	Present?	Yes	No X
Type: Depth (in							Hydric Soil	Present?	Yes	No X
Type: Depth (in							Hydric Soil	Present?	Yes	No X
Type: Depth (in			,				Hydric Soil	Present?	Yes	No X



Upland data point wwio007_u facing west.

wwio009f-w

Project/Site: ACP	City/County: Wilson Co. Sampling Date: 9 July 2014
Applicant/Owner: Dominion	State: NC Sampling Point: wwi 0 009 f-w
Investigator(s): K. Markham, J. Gay	Section, Township, Range: NA
Landform (hillslope, terrace, etc.): 51465lope	Local relief (concave, convex, none): Corcave Slope (%): 10
Subregion (LRR) or MLRA): Lat:	.73228 Long: 78.08375 Datum: WGS 1984
Soil Map Unit Name: Bibb OAM	NWI classification: PFO
	(VII) old Soll lottle II
Are climatic / hydrologic conditions on the site typical for this time of year	
Are Vegetation, Soil, or Hydrology significantly	
Are Vegetation, Soil, or Hydrology naturally pr	
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes No
Wetland Hydrology Present? Yes X No	
Remarks:	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	[]
Surface Water (A1) Aquatic Fauna (B1	
High Water Table (A2) Marl Deposits (B1	
Saturation (A3) Hydrogen Sulfide	Odor (C1) Moss Trim Lines (B16)
	heres along Living Roots (C3)
Sediment Deposits (B2)	- · · · · · · · · · · · · · · · ·
	ction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Iron Deposits (B5) Thin Muck Surface Other (Explain in	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No Depth (inche	es): NA
Water Table Present? Yes X No Depth (inche	:s): <u>9</u>
Saturation Present? Yes X No Depth (inche	es): S Wetland Hydrology Present? Yes X No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial pho	utos, previous inspections), if available:
2000120 10001200 2000 (enconin gauge) memoring memorine pro-	, , , , , , , , , , , , , , , , , , , ,
Remarks:	

Sampling Point: Www.o.869f-w

2020		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 × 30)		Species?		Number of Dominant Species That Are ORL FACW or FAC:
1. Liviodendron tulipifera	40		FAC	That Are OBL, FACW, or FAC: (A)
2. Salix night	<u>lD</u>	<u> </u>	OBL	Total Number of Dominant
3				Species Across All Strata:(B)
4				
5				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6.				THAT ALE ODE, I ACVI, OI I AC (AD)
7				Prevalence Index worksheet:
				Total % Cover of: Multiply by:
8	<u> </u>	= Total Cov		OBL species x1 =
25	. <u></u>		_	FACW species x 2 =
50% of total cover: 25	20% of	total cover:		FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 15 x 15)	/ ^	N/	TEAC	FACU species x 4 =
1. Liaustrum sinense	60		FAC	!
2. Liriodendron tulipitera	5_	<u> </u>	<u> FACU</u>	UPL species x 5 =
3				Column Totals: (A) (B)
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				l 🛁 📜 🗀 🗀
7				- Rapid Test for Hydrophytic Vegetation
				2 - Dominance Test is >50%
8	65	= Total Cov		3 - Prevalence Index is ≤3.01
50% of total cover: 32.	<u> </u>	= Total Cov	/er . (3	Problematic Hydrophytic Vegetation ¹ (Explain)
	<u></u>	f total cover	:	
Herb Stratum (Plot size: 5 × 5)	0	V	Eac	¹ Indicators of hydric soil and wetland hydrology must
1. Microstegium vimineum	<u>80</u>		FAC	be present, unless disturbed or problematic.
2				Definitions of Four Vegetation Strata:
I				The Manda wheat and discribed the Circ (7.0 and an
4				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5				height.
6				
				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7				than 5 m. ber and greater than 5.20 m (1 m) tall.
8				Herb - All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10	<u> </u>			Woody vine - All woody vines greater than 3.28 ft in
11				height.
12.				
,	80	= Total Co	ver	
50% of total cover: 4() _{20% c}	of total cove	r. 16	
Woody Vine Stratum (Plot size: 15 x 15)				
1. Smilax rotundifica	20	Y	FAC	
2. Vitis rotundificia	50	<u> </u>	FAC	
3 Belsomium sempervirens	5	<u> </u>	FAC	
, , , , , , , , , , , , , , , , , , , ,		- 3-	FACU	
4. Lonicera japonica			FALCA	
5				Hydrophytic
		_ = Total Co	ver	Vegetation
50% of total cover: 38	·5 20% (of total cove	r: 15.4	Present? Yes <a> No
Remarks: (If observed, list morphological adaptations be	low).	-	· · · · · · · · · · · · · · · · · · ·	
	·			

Profile Desc	ription: (Describe	to the depth	needed to docum	ent the i	indicator (or confirm	the absence of in	dicators.)
Depth	Matrix			Feature				
(inches)	Color (moist)	<u>%</u> -	Color (moist)	%	Type'	Loc ²		Remarks
0-3	107R 4/2	100 -				<u> </u>	<u>5</u> L	
3-8	104R4/1	95	107K 5/3	_5_	<u> </u>	<u>M</u>		
8-16	10 YR 5/2	95	10YR 5/3	_5_		<u>M</u>	<u>5L</u>	
16-18	10 YR 3/2	100					5L	
18-24	107R 5/1	100					Coarse Sano	1
		. 100 -						
								[
1							2	
	oncentration, D=Dep Indicators: (Applic					ains.		Pore Lining, M=Matrix. Problematic Hydric Soils ³ :
		able to all L					_	- I
Histosol			Polyvalue Bel					(A9) (LRR O)
	oipedon (A2)		Thin Dark Sur					(A10) (LRR S)
ı =	stic (A3) en Sulfide (A4)		Loamy Mucky Loamy Gleyed			0)	1 1	ertic (F18) (outside MLRA 150A,B) loodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)		Depleted Mate		(Г2)			Bright Loamy Soils (F20)
	Bodies (A6) (LRR P	TIN	Redox Dark S		F6)		(MLRA 1:	- · · · · · · · ·
	ucky Mineral (A7) (LI		Depleted Dark	,	•			: Material (TF2)
	resence (A8) (LRR U		Redox Depres		` '			ow Dark Surface (TF12)
 	uck (A9) (LRR P, T)	•	Marl (F10) (LI		•			lain in Remarks)
Deplete	d Below Dark Surfac	e (A11)	Depleted Och	ric (F11)	(MLRA 1	51)		·
Thick Da	ark Surface (A12)		Iron-Mangane					s of hydrophytic vegetation and
Territ	rairie Redox (A16) (I		Terrory .			, U)		hydrology must be present,
· =	Aucky Mineral (S1) (LRR O, S)	Delta Ochric (listurbed or problematic.
· =	Sleyed Matrix (S4)		Reduced Vert		•			
	Redox (S5)		Piedmont Flo	•	٠.	•	•	
I =	d Matrix (S6)	C T 11	Anomaious B	right Loa	amy Soils (F20) (MLF	RA 149A, 153C, 153	3D)
	urface (S7) (LRR P, S Layer (if observed)		•				T	
_	Layer (ii observed)	•						
Type:								
ļ	nches):						Hydric Soil Pre	sent? Yes No
Remarks:								
ĺ								
1								
1								
1								
	•							



Wetland data point wwio009f_w facing northwest.

wwi0009_u

Project/Site:A-CP	City/County: Wilson Co. Sampling Date: 9 July 2014
Applicant/Owner: Dominion	State: NC Sampling Point: WWIO 099_1
Investigator(s): K. Markham, J. Gay	
/	Local relief (concave, convex, none): Concave Slope (%): \D
	. 732-33 Long: 7-8,08373 Datum: W65 1984
Soil Map Unit Name: Norfolk loamy sand	
· · · · · · · · · · · · · · · · · · ·	
Are climatic / hydrologic conditions on the site typical for this time of ye	
Are Vegetation, Soil, or Hydrology significantly	y disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally pr	roblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	Is the Sampled Area
Hydric Soil Present? Yes No	within a Wetland? Yes No
Wetland Hydrology Present? Yes No	Within a Wetland:
Active pasture	•
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)	
High Water Table (A2) Marl Deposits (B1	r-1
Saturation (A3) Hydrogen Sulfide	The state of the s
☐ Water Marks (B1) ☐ Oxidized Rhizosp☐ Sediment Deposits (B2) ☐ Presence of Redu	pheres along Living Roots (C3) Dry-Season Water Table (C2)
	uced Iron (C4)
Algal Mat or Crust (B4) Thin Muck Surface	The state of the s
Iron Deposits (B5) Other (Explain in	I
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No Depth (inche	
Water Table Present? Yes No Depth (inche	(s):
Saturation Present? Yes X No Depth (inche (includes capillary fringe)	es):20
Describe Recorded Data (stream gauge, monitoring well, aerial pho	otos, previous inspections), if available:
Remarks:	

20 3-	Absolute	Dominant	Indicator	Sampling Point: Wwill Committee Dominance Test worksheet:
ree Stratum (Plot size: 30 × 30)		Species?		Alumbar of D. J. Co. J. B.
LONC				That Are OBL, FACW, or FAC:(A)
· · · · · · · · · · · · · · · · · · ·				
				Total Number of Dominant
				Species Across All Strata:(B)
·				Percent of Dominant Species
				That Are OBL, FACW, or FAC: (A/E
i				Prevalence Index worksheet:
·				1
·				Total % Cover of: Multiply by:
	~ `	= Total Cov	er	OBL species x 1 =
50% of total cover:	20% of	total cover:		FACW species x 2 =
apling/Shrub Stratum (Plot size: 15×15)				FAC species x 3 =
h n u 🗸				FACU species x 4 =
				UPL species x 5 =
•				Column Totals: (A) (B
•				(A)(D)
k	<u> </u>			Prevalence Index = B/A =
· <u> </u>				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
•				
				2 - Dominance Test is >50%
·		= Total Cov		3 - Prevalence Index is ≤3.0¹
50% of total cover:				Problematic Hydrophytic Vegetation ¹ (Explain)
	20% of	total cover:		
Herb Stratum (Plot size: 5 × 5)	~~	V	<i></i>	¹ Indicators of hydric soil and wetland hydrology must
. Trifolium repens	<u> 50</u>	<u> 7</u>	FACU	be present, unless disturbed or problematic.
Solanum sp.	5	7		Definitions of Four Vegetation Strata:
. Digitaria sp.	5	<u> </u>		Trans Miles de aleste australias de a Constant
·				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of more in diameter at breast height (DBH), regardless of
				height.
				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tail.
•				than 5 in. DBH and greater than 3.26 it (1 in) tail.
				Herb - All herbaceous (non-woody) plants, regardless
·				of size, and woody plants less than 3.28 ft tall.
0				Woody vine - All woody vines greater than 3.28 ft in
1				height.
2.				
	60	= Total Cov		
E09/ +54-4-1	30 20% of			
50% of total cover:	<u></u> 20% 01	total cover	·	
Voody Vine Stratum (Plot size: 15 × 15)				
. hone				
"				
s				
·				
				Hydrophytic
	~\	= Total Cov		Vegetation Present? Yes No
50% of total cover:	20% of	total cover	:	16510
Remarks: (If observed, list morphological adaptations b	elow).			
	•			

_u

	ription: (Describe t	o the depth	needed	to docum	ent the in	ndicator	or confirm	the absence of i	ndicators.)
Depth (inches)	Matrix Color (moist)	 _	Color (Features		1002	Tovers	Domadia
(inches) 0-X	(04R-4/2	100	Color ((HOIST)		Type ¹	_Loc²	Texture	Remarks
			707100	<u> 11</u>			- \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	<u> </u>	
9-18	10YR 412		(0, Xb				<u>M</u>	<u> 5L</u> _	
18-20	10 yr 5/2	<u>90</u> _	IOTR		_10_		_M_	<u>5</u> L	
20-24	10 YR 5/4	60_	10 YR	<u> 5/1 </u>	_30_	\mathcal{D}	M	<u> </u>	
			10 4/2	5/6	Jo	C	M		
									
¹ Type: C=C	oncentration, D=Dep	letion RM=F	educed	Matrix MS	 Masked	Sand Gr		² l ocation: Pla	=Pore Lining, M=Matrix.
	Indicators: (Application						4,110.		Problematic Hydric Soils ³ :
Histosol							RR S, T, U		(A9) (LRR O)
l =	pipedon (A2)			in Dark Su				F-1	(A10) (LRR S)
	istic (A3)			amy Mucky					Vertic (F18) (outside MLRA 150A,B)
1 222	en Sulfide (A4)		=	amy Gleye		F2)			Floodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)		*= *	pleted Mat	٠,				s Bright Loamy Soils (F20)
	Bodies (A6) (LRR P			dox Dark S	•	•		(MLRA	
	ucky Mineral (A7) (LF		_	pleted Dar					nt Material (TF2)
	resence (A8) (LRR U uck (A9) (LRR P, T)	,	_	edox Depre arl (F10) (L		8)			low Dark Surface (TF12) plain in Remarks)
1 7	d Below Dark Surface	e (A11)	_	epleted Oct	•	(MI RA 1	51)	Outer (EX	Sidili ili Remarks)
	ark Surface (A12)	· (,		-			LRR O, P,	T) ³ Indicato	rs of hydrophytic vegetation and
	rairie Redox (A16) (N	ILRA 150A		nbric Surfa				-	d hydrology must be present,
Sandy N	Mucky Mineral (S1) (L	RR O, S)	☐ De	elta Ochric	(F17) (ML	RA 151)		unless	disturbed or problematic.
	Gleyed Matrix (S4)					-	60A, 150B)		
	Redox (S5)				-		(MLRA 14	-	
	d Matrix (S6)	· T II	LL Ar	nomalous E	Bright Loai	my Soils (F20) (MLR	A 149A, 153C, 15	33D)
	urface (S7) (LRR P, S Layer (if observed):		•		•			T	
Type:	Layer (ii observed).	•							
1	nches):		_				•	Hudria Sail Dr.	esent? Yes X No
Remarks:	icites).		_					nyuric son Fit	esentr res_/NO
Remarks.									
		•							
				•					
1									
L									



Upland data point wwio009_u facing northwest.

WEITAND DETERMINATION DATA	rokw – Atlantic and Guir Coastal Plain Region
Project/Site: ACP	City/County: Wilson Sampling Date: 6/8/15
Applicant/Owner: Dominion	State: N Sampling Point: While 620F w
Investigator(s): ESJ-J. Harbour, K. Murphley	Section, Township, Range: NA
Landform (hillslope, terrace, etc.): <u>deeeesい</u>	Local relief (concave, convex, none): CONCAVE Slope (%): O- 2
Subregion (LRR or MLRA): LRR P Let: 35.	.72162 Long: 78.08569 Datum: W6584
Soil Map Unit Name: Bibb 10am, frequently Floo	
Are climatic / hydrologic conditions on the site typical for this time of y	
Are Vegetation, Soil, or Hydrology significant	• • • • • • • • • • • • • • • • • • • •
Are Vegetation, Soil, or Hydrology naturally p	
SUMMARY OF FINDINGS - Attach site map showin	ig sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: No No No No No	Is the Sampled Area within a Wetland? Yes No
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of Iwo required)
Primary Indicators (minimum of one is required; check all that apply	() Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (E	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B	
Saturation (A3) Hydrogen Sulfide	
	pheres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Red	_ , , ,
	uction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surfaction Other (Explain in	_ ' ' '
Inundation Visible on Aerial Imagery (B7)	Station Adultato (D5) FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes NoDepth (inches	es): N A
Water Table Present? YesNo Depth (inchi	
Saturation Present? Yes V No Depth (inchicincludes capillary fringe)	es): 5 Wetland Hydrology Present? Yes No No
Describe Recorded Data (stream gauge, monitoring well, aerial ph	otos, previous inspections), if available:
,	
Remarks;	
	Ì

- 2061 V 2061		Dominant		Dominance Test worksheet:
Iree Stratum (Plot size: 2051 × 3054		Species?		Number of Dominant Species
1. Nyssa sylvatica	<u> 30</u>		FAC	That Are OBL, FACW, or FAC: (A)
2. Keer (abilim	25500		FAC	Total Number of Deminent
3.				Total Number of Dominant Species Across All Strata: (B)
4				openios is esserial ordata.
5.				Percent of Dominant Species That Are OBL, FACW, or FAC:
				That Are OBL, FACW, or FAC: 100 (A/B)
6			···	Prevalence Index worksheet:
7.				l i
8.				Total % Cover of: Multiply by:
	<u>35</u>	= Total Cov	er	OBL species x 1 =
50% of total cover: 📆	5 20% of	total cover	7	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30F4 × 30F4)			•	FAC species x 3 =
1. Liquidamber Styracistus	5	V	FAC	FACU species x 4 =
2. NUSSA SY/VATICA	10		FAC	UPL species x 5 =
		<u></u>	FAC	Column Totals: (A) (B)
3. Acer rhoram		<u>N</u>	` 	(A)
4.				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				
7.				
8				2 - Dominance Test is >50%
0.	()	= Total Cov		3 - Prevalence Index is ≤3.01
a 6		= Total Cov	rer クル	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 8.5	20% of	f total cover	: <u>3.5</u>	
Herb Stratum (Plot size: <u>30위 X 30위</u>				¹Indicators of hydric soil and wetland hydrology must
1. NONE Present				be present, unless disturbed or problematic.
2				Definitions of Four Vegetation Strata:
3,				_
				Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub - Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Hoch All backs are used to the second of the
9.		·		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10				or ones, and woody plants loss than 3.20 it tail.
10			-	Woody vine - All woody vines greater than 3.28 ft in
11				height.
12.	- 10			
	NA	= Total Co	ver	
50% of total cover:	20% c	of total cover		.
Woody Vine Stratum (Plot size: 30 F4 X 30 F4				
1. None Present				
		 		•
2.		-		.
3.				•
4.				.
5				- Hydrophytic
	NA	= Total Co	ver	Vegetation
50% of total cover:		- of total cove		Present? Yes No
Remarks: (If observed, list morphological adaptations be		J. (O.G.) 00V6	`` 	-
restrains. (ii observed, list morphological adaptations be	iow).			

Sampling Point: wwip 020 fw

Depth (ip shock	Matrix		Redo	x Features	<u> </u>			
(inches)	Color (moist)	<u> %</u>	Color (moist)		Type'	Loc ²	<u>Texture</u>	Remarks
<u> </u>	10484/1	10	104RH/6	<u> </u>				
			104R4/6	5	_ <	_PL	The state of the s	
3 - 20	10485/1	90	WAR 5/6	10	-	$\overline{\mathcal{N}}$	Fine Son	
-				·			A 1. M. M. M. M. M. M. M. M. M. M. M. M. M.	<u></u>
	*							
Type: C=C	oncentration D=De	nletion RM:	=Reduced Matrix, MS	S=Masked	Sand G	eine	2l ocation: DI -I	Pore Lining, M=Matrix.
			LRRs, unless other			u113,		Problematic Hydric Solis ³ :
_ Histosol			Polyvalue Be			RRSTI		•
	pipedon (A2)		Thin Dark Su					(A10) (LRR S)
Black H	istic (A3)		Loamy Muck					ertic (F18) (outside MLRA 150A,E
	en Sulfide (A4)		Loamy Gleye			,		loodplain Soils (F19) (LRR P, S, T
	d Layers (A5)		Depleted Ma	trix (F3)				Bright Loamy Soils (F20)
	Bodies (A6) (LRR I		Redox Dark				(MLRA1	-
	ucky Mineral (A7) (L							Material (TF2)
	resence (A8) (LRR I		Redox Depre		8)			w Dark Surface (TF12)
	Jck (A9) (LRR P, T) d Below Dark Surfai		Mari (F10) (L		(BALDA -	EAN	Other (Expl	ain in Remarks)
	ark Surface (A12)	ce (ATT)	Depleted Oct				T\ 3Indicators	. af herdenah, dia ya matati na mada
	rairie Redox (A16) (MLRA 150					•	of hydrophytic vegetation and hydrology must be present,
	vlucky Mineral (S1) (Delta Ochric					isturbed or problematic.
	Sleyed Matrix (S4)	. , ,	Reduced Ver					interior of problematic.
🖊 Sandy F	Redox (S5)		Piedmont Flo					
	d Matrix (S6)		Anomalous E	Bright Loar	ny Soils	(F20) (MLR	RA 149A, 153C, 153	D)
	ırface (S7) (LRR P,							
Restrictive	Layer (If observed)):						
Type:								8
Depth (in	iches):						Hydric Soil Pres	sent? Yes No
Remarks:								



Wetland data point wwip020f_w facing northeast.



Wetland data point wwip020f_w facing north.



Wetland data point wwip020f_w facing north. (Taken 7/09/2014)

Project/Site: A C City/County:	Sampling Date: 6/8/15
Applicant/Owner: DOMINION	State: NC Sampling Point: WWip 020_v
	vnship, Range: NA
* -	
Landiorm (nilisiope, terrace, etc.): W/(11 3/04 Local relief (c	concave, convex, none): CONCX Slope (%): 4-10
	Long: 78.08558 Datum: 1658
Soil Map Unit Name: 8166 JOAM	NWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time of year? Yes	No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturbed?	Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally problematic?	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sampling	•
Hydrophytic Vegetation Present? Yes No Is the Hydric Soil Present? Yes No One	Sampled Area
Welland Hydrology Present? Yes No within	n a Wetland? Yes No
Remarks:	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15) (LRR U)	Drainage Patterns (B10)
Saturation (A3) Hydrogen Sulfide Odor (C1)	Moss Trim Lines (B16)
Water Marks (B1) Oxidized Rhizospheres along Li	iving Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Reduced Iron (C4)	
Drift Deposits (B3) Recent Iron Reduction in Tilled	
Algal Mat or Crust (B4) Thin Muck Surface (C7)	Geomorphic Position (D2)
Iron Deposits (B5) Other (Explain in Remarks)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)	FAC-Neutral Test (D5)
Field Observations:	Sphagnum moss (D8) (LRR T, U)
Surface Water Present? Yes No Depth (inches): NA	
Water Table Present? Yes No Depth (inches): >24	jets .
Saturation Present? Yes No Depth (inches): 220	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous	inspections), if available:
Remarks:	

20(142)51	Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: 305+X3054) 1. Figure 1.	<u>% Cover</u>	Species?	Status FAC	Number of Dominant Species That Are OBL, FACW, or FAC: (A)		
2. 3.				Total Number of Dominant Species Across All Strata: (B)		
4. 5.				Percent of Dominant Species		
6				That A & OBL, FACW, OF FAC.		
7				Prevalence Index worksheet:		
8				Total % Cover of:Multiply by:		
	20	= Total Cov	er	OBL species x 1 =		
50% of total cover: <u>(</u>		total cover	2.1	FACW species x 2 =		
Sapling/Shrub Stratum (Plot size: 30キャメ30チャ	20 70 0	10141 00701		FAC species x 3 =		
1. QUEYCUS alba	15	V	FACU	FACU species x 4 =		
2. OXUNERATION ON SUJECIAN	· ——		FACO			
3. Itéx ofoca	10	1/	FAC	Column Totals: (A) (B)		
4.				Prevalence Index = B/A =		
5				Hydrophytic Vegetation Indicators:		
6.				1- Rapid Test for Hydrophytic Vegetation		
7	- ——			2 - Dominance Test is >50%		
8				3 - Prevalence Index is ≤3.01		
		= Total Cov		Problematic Hydrophytic Vegetation (Explain)		
50% of total cover: 15	20% o	f total cover	: <u> </u>			
Herb Stratum (Plot size: 3084 X 3084) 1. NODE PRESENT				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.		
2				Definitions of Four Vegetation Strata:		
				Definitions of Four Vegetation Strata.		
3				Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or		
5				more in diameter at breast height (DBH), regardless of height. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.		
6	-					
7						
9		· ···		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3,28 ft tall.		
10				-		
11				Woody vine – All woody vines greater than 3.28 ft in height.		
12						
	n	= Total Co	Ver			
50% of total cover;	20% 6	of total cove				
Woody Vine Stratum (Plot size: 30Ff X 30Ff)	20700	i total covo	' · 	1		
1. Vit's Ryand folia	€.	Y	FAC			
2. Smile William Solid		{	FAC	·		
	pod.		1-11-			
3.						
4						
5				Hydrophytic		
		= Total Co		Vegetation		
50% of total cover: 3.	<u>5</u> 20% d	of total cove	r: <u></u>	Present? Yes No No		
Remarks: (If observed, list morphological adaptations be	low).					
	•					

Profile Description: (Describe to the dept	h needed to docur	nent the Indicator	or confirm	the absence of ir	dicators.)
Depth Matrix	Redo	x Features			
(inches) Color (moist) %	Color (moist)	% Type¹	Loc²	<u>Texture</u>	Remarks
0-20 7 SUR4/6100				L	
	···				····
1m		·			
¹ Type: C=Concentration, D=Depletion, RM=			ains.	'Location: PL=	Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all	LRRs, unless othe	rwise noted.)		Indicators for	Problematic Hydric Solls ³ :
Histosol (A1)	Polyvalue Be	low Surface (S8) (I	.RR S, T, U) 1 cm Muck	(A9) (LRR O)
Histic Epipedon (A2)	Thin Dark St	ırface (S9) (LRR S,	T, U)	2 cm Muck	(A10) (LRR S)
Black Histic (A3)	Loamy Muck	y Mineral (F1) (LRF	(O)	Reduced V	ertic (F18) (outside MLRA 150A,B)
Hydrogen Sulfide (A4)	Loamy Gley	ed Matrix (F2)			loodplain Soils (F19) (LRR P, S, T)
Stratified Layers (A5)	Depleted Ma				Bright Loamy Soils (F20)
Organic Bodies (A6) (LRR P, T, U)	Redox Dark	Surface (F6)		(MLRA1	
5 cm Mucky Mineral (A7) (LRR P, T, U)		rk Surface (F7)		•	t Material (TF2)
Muck Presence (A8) (LRR U)	Redox Depr	essions (F8)			ow Dark Surface (TF12)
1 cm Muck (A9) (LRR P, T)	Marl (F10) (I	RR U)		-	lain in Remarks)
Depleted Below Dark Surface (A11)		hric (F11) (MLRA 1	51)	` .	•
Thick Dark Surface (A12)		ese Masses (F12)		T) ³ Indicator	s of hydrophytic vegetation and
Coast Prairie Redox (A16) (MLRA 150A		ace (F13) (LRR P, 1		•	hydrology must be present,
Sandy Mucky Mineral (S1) (LRR O, S)		(F17) (MLRA 151)	•		disturbed or problematic.
Sandy Gleyed Matrix (S4)		rtic (F18) (MLRA 1:	50A, 150B)		
Sandy Redox (S5)		oodplain Soils (F19)		9A)	
Stripped Matrix (S6)		Bright Loamy Soils		•	30)
Dark Surface (S7) (LRR P, S, T, U)	_	•	, ,	, , , , , , , , , , , , , , , , , , , ,	
Restrictive Layer (if observed):					· ·
Туре:					
					i de la companya de l
Depth (inches):				Hydric Soli Pre	sent? Yes No
Remarks:					
1					



Wetland data point wwip020_u facing south.



Wetland data point wwip020_u facing east.

wwio OOBF_W

Project/Site: ACP	City/County:	Wilson Co	✓ Samp	ling Date: 9 July 2014
Applicant/Owner: Dominion		State	: NC Samp	ling Point: www o 008f_u
Investigator(s): K. Markham, J. Gay	Section, Town	ship, Range:	A.	<u> </u>
Landform (hillslope, terrace, etc.): Terrace	Local relief (co	ncave convex none): hohe	Slope (%): < !
Subregion (LRR or MLRA): P Lat:	35.72944	Long: 78	,08536	Datum: WAS 1964
Soil Map Unit Name: Bibb loam			NWI classification:	TOTAL S
Are climatic / hydrologic conditions on the site typical for this til	mo of year? Van		· ·	
· · · · · · · · · · · · · · · · · · ·				s., ? Yes <u>×</u> No
Are Vegetation, Soil, or Hydrology sign				
Are Vegetation, Soil, or Hydrology nati			in any answers in R	
SUMMARY OF FINDINGS – Attach site map sh	lowing sampling	point locations,	transects, unp	ortant leatures, etc.
		Sampled Area	\/	
1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	within	a Wetland?	Yes X	No
Wetland Hydrology Present? Yes No				
Remarks:				
HYDROLOGY				
Wetland Hydrology indicators:		Sec	condary Indicators (r	minimum of two required)
Primary Indicators (minimum of one is required; check all that	at apply)		Surface Soil Crack	
	auna (B13)		Sparsely Vegetate	d Concave Surface (B8)
	sits (B15) (LRR U)	X	Drainage Patterns	(B10)
Saturation (A3)	Sulfide Odor (C1)		Moss Trim Lines (8	•
Water Marks (B1)	Rhizospheres along Liv	ing Roots (C3) 📙	Dry-Season Water	
	of Reduced Iron (C4)	` 	Crayfish Burrows (•
	on Reduction in Tilled S	oils (C6)		on Aerial Imagery (C9)
	k Surface (C7) plain in Remarks)		Geomorphic Positi Shallow Aquitard (
Iron Deposits (B5) Uher (Ex Inundation Visible on Aerial Imagery (B7)	piain in Remarks)	Ħ	FAC-Neutral Test	
Water-Stained Leaves (B9)		- 🗇	Sphagnum moss (
Field Observations:				
Surface Water Present? Yes No Dept	h (inches): NA	.		
Water Table Present? Yes No Dept	h (inches): > 70_			
Saturation Present? Yes No Dept	h (inches): <u> </u>	Wetland Hyd	rology Present?	Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, ac	erial photos, previous in	spections), if availab	ie:	-
Remarks:				
				~

VEGETATION (/Four Strata	موا ا ــ ۱	ecientific	namee	of plants
AEGE IN HOM	(Fuui Siraia	, – use	Scientific	Hallies	oi piants.

Sampling Point: WW10008600

Tree Stratum (Plot cize: 30 × 30		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 2000) 1. Liquidambar styracifus	<u>% Cover</u> <i>10</i>	Species?	Status FAC	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2. Acer rubrum	10		FAC	Total Number of Dominant
3				Species Across All Strata: (B) Percent of Dominant Species The All Species (AR)
5				That Are OBL, FACW, or FAC: (A/B)
7				Prevalence index worksheet:
8				Total % Cover of: Multiply by:
	_20	= Total Cov	er ,	OBL species x 1 =
50% of total cover: 10	20% of	total cover:	110	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 15 × 15)				FAC species x 3 =
1. Acer rubrum	30	Y	FAC	FACU species x 4 =
2. Liquistrum Sinense	30		FAC	UPL species x 5 =
3. Dix opaca	15	文	FAC	Column Totals: (A) (B)
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8	- T.			3 - Prevalence Index is ≤3.0¹
20		= Total Cov	^{/er} 13	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 32.	<u>/5</u> 20% o	f total cover	: <u> </u>	
Herb Stratum (Plot size: 5 x 5)	. ~			Indicators of hydric soil and wetland hydrology must
1. Woodwardia Virginica		<u> </u>	<u> </u>	be present, unless disturbed or problematic.
2 Microsteglam vinineum	40	Y	FAC	Definitions of Four Vegetation Strata:
3. Asplenium Nathheuron	1	N	FACU	·
, , ,		·		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of height.
5				I roughi
6				Sapling/Shrub - Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine - All woody vines greater than 3.28 ft in
11				height.
12.	_			
	- 5し	= Total Co	ver	
50% of total cover: 25	5 2006	f total cove	171	
	20%	n total cove	··	
Woody Vine Stratum (Plot size: 15 x 13)	30	7	FAC	
	- "	- [
2. Toxicodendion vadicans	- '	<u> </u>	FAC	
3. Vins vitundifolia	15_		<u>FAC</u>	,
4				
5				Hydrophytic
	46	= Total Co	ver	Vegetation
50% of total cover: 23	20%	of total cove	~ ^	Present? Yes No
Remarks: (If observed, list morphological adaptations be	iow).			
1				

Sampling Point: WWIODO 8605

Profile Desc	ription: (Describe	to the dep	h needed	to docum	nent the ir	ndicator	or confirm	the absence	of indicator	·s.)	
Depth	Matrix		Onland	Redo	x_Features	 1					
(inches)	Color (moist)	100	Color (moist)		Type ¹	_Loc²	Texture	- B	Remarks	<u> </u>
		<u></u>	•					SL SL	<u>2000</u>	MCOATCC	sand grains
2-6	1048 5/2	100		- /~							
6-20	1048 5/2	86	7.5 YR		_2	_ <u>C</u>	PL	<u>. SCL</u>		 .	
İ			10 YR	5/6	10	C	$^{\circ}$ \mathcal{M}	•			
			10 yR	5/1	2	D	M				
			·	· · · · · ·						_	
							-				
1Tumo: CuC	neoptration DeDon	lotion DM-	Dadwaad	Named NA		Cond Co		21	DI - D 17		
	oncentration, D=Dep Indicators: (Applic						airis.			ning, M=Mat natic Hydrid	
☐ Histosol			_			-	RR S, T, U	_	luck (A9) (L	-	, 003 .
: 	pipedon (A2)		=	•	ırface (S9)				luck (A10) (
Black Hi	stic (A3)				y Mineral (•			-	MLRA 150A,B)
	en Sulfide (A4)		=	•	ed Matrix (F2)				•	9) (LRR P, S, T)
	i Layers (A5)	T 115		pleted Ma		·a\			_	Loamy Soils	(F20)
	Bodies (A6) (LRR P ucky Mineral (A7) (LF				Surface (F rk Surface	•			RA 153B) arent Materi	al (TE2)	į
	esence (A8) (LRR U				essions (F					ar (162) : Surface (TF	-12)
	uck (A9) (LRR P, T)	-	=	arl (F10) (L	•	•			(Explain in F		<i>'</i>
	d Below Dark Surfac	e (A11)			hric (F11)						
· ==	ark Surface (A12)	W D 4 450					LRR O, P,		•	irophytic veg	
I ===	rairie Redox (A16) (J Jucky Mineral (S1) (I		_		ace (F13) (: (F17) (ML	•	, 0)			ogy must be d or problen	
1 —	Sleyed Matrix (S4)	-itit 0, 0,					0A, 150B)		css distuibe	d or problem	iatic.
	Redox (S5)		_				(MLRA 14				
· = · ·	í Matrix (S6)		☐ Ar	nomalous l	Bright Loai	my Soils (F20) (MLR	A 149A, 153C	, 153D)		
	rface (S7) (LRR P, \$										
	Layer (if observed)	:									
Type:								1		V	,
Depth (in	ches):							Hydric Soil	Present?	Yes X	No
Remarks:											
1											
	•										
1											
İ											•
											•
1											



Wetland data point wwio008f_w facing west.

Project/Site: ACP	City/County: Wilson Co. Sampling Date: 9 July 201
Applicant/Owner: Dominion	State: NC Sampling Point: WW10008
	Section, Township, Range: NA
	Local relief (concave, convex, none): Nove Slope (%): < 5%
Subregion (LRR or MLRA): Lat: 35	,72947 Long: <u>78.08546</u> Datum: W65 1984
Soil Map Unit Name: Bibb	NWI classification: NP
Are climatic / hydrologic conditions on the site typical for this time of ye	
Are Vegetation, Soil, or Hydrology significantly	
Are Vegetation, Soil, or Hydrology naturally pro	
	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: Yes No	Is the Sampled Area within a Wetland? Yes No
HYDROLOGY	
Sediment Deposits (B2)	Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10)
Remarks:	n yayan n

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

- 40	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 x 30)		Species?	Status	•
1. Quercus falcata	25	- Y	FACU	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2. Oxydendron arboreum	20	- ' '	FACU	That Ale Obe, I Aovi, of I Ao.
	20	-		Total Number of Dominant
3. 'Acer' rubrum			FAC	Species Across All Strata: (B)
4. Tex opaca	15	N	FAC	Bernet of Bernie and Bernies 77
5. Liquidamber styracifha	łO	N	FA-C	Percent of Dominant Species That Are OBL, FACW, or FAC:57 (A/B)
6				111at Ale OBE, 1 AON, 01 1AO
			·	Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8				
	90	= Total Cov	er 🔑	OBL species x 1 =
50% of total cover: 45		total cover:		FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 15 x 5)				FAC species x 3 =
1 Acer rubrum	5	Ŋ	FAC	FACU species x 4 =
	-5 -	-14		UPL species x 5 =
2. Liquidaimbar styraciflua	-	<u>N</u>	FAC	
3. Tier opara	20		FAC	Column Totals: (A) (B)
4. Quercus stellata	10	У.	UPL	Dravelance Index - DIA -
5. Oxydendron arboreum		77	FACU	Prevalence Index = B/A =
	-21			Hydrophytic Vegetation Indicators:
6. Litualum sinense		_14	FAC	- Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0¹
	45	= Total Cov	/OT	
50% of total cover: 22	5 2221	- Total Co	⁶ 9	Problematic Hydrophytic Vegetation¹ (Explain)
	20% 0	r total cover	:	
Herb Stratum (Plot size: 5 × 5)	~ ^	.,		¹ Indicators of hydric soil and wetland hydrology must
1. Clethra alniAlia	<u></u> 50	. <u>Y</u> _	<u>tacw</u>	be present, unless disturbed or problematic.
2.				Definitions of Four Vegetation Strata:
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
				,
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10		 	,	Woody vine – All woody vines greater than 3.28 ft in
11				height.
12				1
12.	30		·	
1,		= Total Co		
30 % of total cover.	<u>5</u> 20% d	of total cove	r: <u> </u>	
Woody Vine Stratum (Plot size: 15 x 15)	_			
1. Smilar rohindible	30	Y	FAC	
2 Lonicera japonica	2	- - N	FACU	
1 4 6 6			FAC	
3. This votunditolia			- <u>Luc</u>	
4				
5.				Hydrophytic /
	33	= Total Co	Wor.	Vegetation
Ton (1.1) [6		of total cove		Present? Yes No
50% of total cover: 6	20%	or total cove	er:	
Remarks: (If observed, list morphological adaptations be	low).			
1				
1				

Profile Desc	cription: (Describe to	the dept	h needed to docun	nent the i	ndicator	or confirm	the absence	of indicato	rs.)	
Depth	Matrix			x Feature		. 2				
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type'	_Loc2	Texture		Remarks	
0-3	107R 3/2		ماسير مر				<u> 5L</u>	20 10 4	ncoatra.	iand grains
3-7	10YR 4/2	98	10YR 5/3	_2_		_ <u>M</u>	<u> 5L</u>			
7-16	10 YR 5/3	100					LS			
16-22	10 YR 5/4	98	107R 5/6	2	\sim	W	SICL			
							-			
							·			
1							2,			
	oncentration, D=Deple Indicators: (Applica					ains.			ning, M=Mati natic Hydric	
Histosol		ible to all	Polyvalue Be		-	DD C T I		Muck (A9) (L	=	Soils:
	pipedon (A2)		Thin Dark Su					Muck (A9) (L Muck (A10) (İ
	istic (A3)		Loamy Muck							MLRA 150A,B)
===	en Sulfide (A4)		Loamy Gleye			·		-) (LRR P, S, T)
	d Layers (A5)		Depleted Ma					_	Loamy Soils	(F20)
	Bodies (A6) (LRR P,		Redox Dark		•		1 1 '	RA 153B)		
	ucky Mineral (A7) (LR resence (A8) (LRR U)		Depleted Dar		• •			arent Mater	ıaı (1F2) «Surface (TF	12)
	uck (A9) (LRR P, T)	,	Marl (F10) (L	•	0,			(Explain in f		'2)
_	d Below Dark Surface	(A11)	Depleted Oc		(MLRA 1	51)		(p	,	
1 =	ark Surface (A12)		Iron-Mangan					•	trophytic veg	
	rairie Redox (A16) (M		· 1			', U)		•	ogy must be i	
	Mucky Mineral (S1) (L Gleyed Matrix (S4)	KK O, S)	Delta Ochric Reduced Ver			OA 1500		less disturbe	ed or problem	atic.
I ===	Redox (S5)		Piedmont Flo				="			
	d Matrix (S6)						.o., RA 149A, 1530	C, 153D)		
	urface (S7) (LRR P, S							•		
Restrictive	Layer (if observed):									
Type:										✓
Depth (ir	nches):						Hydric Soi	i Present?	Yes	_ No_ <u>/</u>
Remarks:										
1										



Upland data point wwio008_u facing north.

wwio 010 f_w

Project/Site: ACP	_ City/County: SimS/Wikson Sampling Date: 10 July 2014
Applicant/Oumor: DOMINIO()	State: N// Sampling Point: WW10 010F-
Investigator(s): 1. 604, K. MUNPhrey	Section, Township, Range:
Landform (hillslone terrace etc.): 81006 P(010	Local relief (concave, convex, none): (1/0)+ Slope (%): 4
Subregion (LRR or MLRA): P Lat: 35	5.72885 Long: 78,08595 Datum: WGS1984
Soil Map Unit Name: Bibb loam	NWI classification: PFO
Are climatic / hydrologic conditions on the site typical for this time of	year? Yes No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significant	tly disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrology naturally p	problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	ng sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No No Wetland Hydrology Present? Yes No Remarks:	
HYDROLOGY Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that appliance of the state of the sta	Surface Soil Cracks (B6) B13) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Spheres along Living Roots (C3) duced Iron (C4) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
Field Observations: Surface Water Present? Water Table Present? Yes No Depth (inch Saturation Present? Yes No Depth (inch (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial processing pro	hes): >70 hes): 12" Wetland Hydrology Present? Yes No
Remarks: hydrology Criteria	met

VEGETATION (1 out otrata) — osc scientino na	· ·			
Tree Stratum (Plot size: 30' ×30')		Dominant Species?		Dominance Test worksheet:
		Species?		Number of Dominant Species
1. Liviodendron Luirexera	30	_2	FACU	That Are OBL, FACW, or FAC: (A)
2. 169uilambar Styracifica	<u> 30 </u>	<u> </u>	EAC	Total Number of Dominant
3. Liaustium Sinense	60	У	FAC	Species Across All Strata: (B)
	***			Opecies Across Air Strata.
4				Percent of Dominant Species
5			· · · · · · · · · · · · · · · · · · ·	That Are OBL, FACW, or FAC: (A/B)
6				
				Prevalence Index worksheet:
7			·	Total % Cover of: Multiply by:
8				
		= Total Co	ver	OBL species x1 =
50% of total cover: <u>55</u>	20% of	f total cove	22	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30 × 30)			·· 	FAC species x 3 =
	/ ^	V	F-0-4	FACU species x 4 =
1. Lighthum Sinense	40	_ _	FAC	1
2. liviolendun tulipitera	5	N	FAC 4	UPL species x 5 =
				Column Totals: (A) (B)
3				
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
				1
6				Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.01
	65	= Total Co	over	
72				☐ Problematic Hydrophytic Vegetation¹ (Explain)
∧ (/M of total cover: <u>3</u> ⊋.	<u> </u>	i total cove	er: <u>+ </u>	
Herb Stratum (Plot size: ///A)				¹ Indicators of hydric soil and wetland hydrology must
1				be present, unless disturbed or problematic.
				Definitions of Four Vegetation Strata:
2				Deminitions of Four Vegetation Strata.
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
				height.
5				·
6				Sapling/Shrub – Woody plants, excluding vines, less
7		_		than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				It is All book and the control of All books are madeled
				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine - All woody vines greater than 3.28 ft in
11				height.
			_	- 19
12.				-
İ		_ = Total C	over	
50% of total cover:	20% (of total cov	er:	
Woody Vine Stratum (Plot size:36 × 30)				j
Voody Ville Stratum (1 tot size. 85 10)	30	V	FAC	
1. Smilax Ntundifulia		/	_ FAL	-
2				_)
3				
			_	-
4				-
5				- Hydrophytic
	30	_ = Total C	Cover	Vegetation \/
500/ 15/11/1		of total cov		Present? Yes No No
50% of total cover:	5 20%	ot total cov	rer:	
Remarks: (If observed, list morphological adaptations b	elow).			
1 11 00	,			
Vegetation Criteria me	*			
0				
I.				

Profile Desc	cription: (Describe	to the depti	needed to docum	nent the	Indicator	or confirm	n the absence of	indicators.)
Depth (inches)	Matrix Color (moist)	- %	Redor Color (moist)	x Feature %	Type¹	Loc²	Texture	Remarks
(A-5	104R4/Z	100 -	COIDI (MOISI)		Түрс	LOC	<u> 5</u> L	Kemarks
	101K 4/2						- <u>50</u> -	
5-7		-' -						### · · · · · · · · · · · · · · · · · ·
7-20	1042571	<u> 90° </u>	16425/4	· - 2		<u>,W</u>	<u> </u>	
			104R4/1	<u> </u>	<u> D</u>	<u> M</u>		
¹Time: C=C	oncentration, D≔De	nletion PM-I	Parturad Matrix MS	S-Macke	d Sand Gr	eine	² l ocation: Di	L=Pore Lining, M=Matrix.
	Indicators: (Applie					unis.		r Problematic Hydric Solls ³ :
Histosol			Polyvalue Be			RR S. T.		ck (A9) (LRR O)
	pipedon (A2)		Thin Dark Su					ck (A10) (LRR S)
Black H	istic (A3)		Loamy Muck	y Mineral	(F1) (LRF	l O)	Reduced	Vertic (F18) (outside MLRA 150A,B)
	en Sulfide (A4)		Loamy Gleye		(F2)			t Floodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)	B T III	X Depleted Ma		EG)		_	us Bright Loamy Soils (F20)
ı -	: Bodies (A6) (LRR I ucky Mineral (A7) (L		Depleted Dark	•			(MLRA Red Para	ent Material (TF2)
	resence (A8) (LRR		Redox Depre				_	Illow Dark Surface (TF12)
· · · · · · · · · · · · · · · · · · ·	uck (A9) (LRR P, T)	-	Marl (F10) (L	-	•		•	kplain in Remarks)
ı — ·	d Below Dark Surfa	ce (A11)	Depleted Oc				2	
ı —	ark Surface (A12)		Iron-Mangan					ors of hydrophytic vegetation and
1 —	Prairie Redox (A16) (Mucky Mineral (S1) (•) Umbric Surfa Delta Ochric			, u)		nd hydrology must be present, s disturbed or problematic.
	Gleyed Matrix (S4)	(LKK 0, 3)	Reduced Ver			60A. 150E		s disturbed of problematic.
. —	Redox (S5)		Piedmont Flo					
	d Matrix (S6)						RA 149A, 153C, 1	53D)
	urface (S7) (LRR P,				_			
Restrictive	Layer (if observed):						
Туре:								
Depth (ir	iches);						Hydric Soil P	resent? Yes No
Remarks:								
			1					
			,					
1								
1								



Wetland data point wwio010f_w facing south.

Project/Site: ACP	City/County: Sims/Wilson Sampling Date: 10 July 2014
Applicant/Owner: Dominion	State: NC Sampling Point: www.oolo-u
••	
Investigator(s): T. Gan K. Murohrey	Local relief (concave, convex, none): Nove Slope (%): >15
Landform (fillislope, terrace, etc.):	20894 Long 28 05566 Potum: WGS 1984
Subregion(LRR of MLRA): Lat: 25	NWI classification: NA Datum: WGS 1984
Are climatic / hydrologic conditions on the site typical for this time of you	
	y disturbed? Are "Normal Circumstances" present? Yes No No
Are Vegetation, Soil, or Hydrology naturally pr	
SUMMARY OF FINDINGS - Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes No	Is the Sampled Area within a Wetland? Yes No
Remarks: 1 St. Con Com h daw	5 660
Remarks: Tropical Storm rain 6 day Light Rain last night/+1	
Light Rain last night/+1	as Mothing
, v	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required: check all that apply	
Surface Water (A1)	
High Water Table (A2) Mari Deposits (B1)	· · · · · · · · · · · · · · · · · · ·
Saturation (A3) Hydrogen Sulfide	Odor (C1) Moss Trim Lines (B16)
☐ Water Marks (B1) ☐ Oxidized Rhizosp	oheres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2)	
1 音 ···································	uction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
☐ Algal Mat or Crust (B4) ☐ Thin Muck Surfact ☐ Iron Deposits (B5) ☐ Other (Explain in	
Inundation Visible on Aerial Imagery (87)	FAC-Neutral Test (D5)
☐ Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No Depth (inche	es): NA
Water Table Present? Yes No Depth (inche	es):
Saturation Present? Yes No 1 Depth (inche	es): 725 Wetland Hydrology Present? Yes No 💆
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial pho	otos, previous inspections), if available:
Remarks:	
	•

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30)		Species?		
1. Prunus Servitina	10	N	FACH	Number of Dominant Species That Are OBL, FACW, or FAC:(A)
	0.5		FAC	mat Ale OBL, FACVI, of FAC(A)
2. Ilex opaca				Total Number of Dominant
3. Linuxtrum SinAns	<u>50 </u>	<u> </u>	FAC	Species Across All Strata: (B)
4		•		
				Percent of Dominant Species / 00
5				That Are OBL, FACW, or FAC: (A/B)
6				Dt
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
0	0/1	= Total Cov		OBL species x1 =
				FACW species x 2 =
50% of total cover:	20% of	total cover	: <u> </u>	1
Sapling/Shrub Stratum (Plot size: 15)				FAC species x 3 =
1. Lighton Sinekse	25	Ч	FAC	FACU species x 4 =
I' COUNTY THE WAY	· ~~~	4	 _	UPL species x 5 =
2. They source	. 	<u> </u>	<u>FAC</u>	
3				Column Totals: (A) (B)
				1
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				Rapid Test for Hydrophytic Vegetation
7				
				2 - Dominance Test is >50%
8				☐ 3 - Prevalence Index is ≤3.01
		= Total Co		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 15	20% 0	f total cover	٠, ۲	<u> </u>
Herb Stratum (Plot size:)			`	
Herb Stratum (Plot size:)	C .	v	$\Gamma_{\Lambda\Lambda}$	¹ Indicators of hydric soil and wetland hydrology must
1. Microstanum Viminer	<u> </u>		<u>FAC</u>	be present, unless disturbed or problematic.
2		,		Definitions of Four Vegetation Strata:
3				Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4,	_			more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub - Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Harb All borboscous (non woods) plants, regardioss
				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
9				or size, and woody plants less than 5.20 it tail.
10				Woody vine All woody vines greater than 3.28 ft in
11				height.
12				.
12.			-	•
_	<u> </u>	_= Total Co		
50% of total cover:	5 20% d	of total cove	r: <u> </u>	
Woody Vine Stratum (Plot size: 15)				
	10	У	EM	
1. Vitis rotand: Color	<u> 10</u>	!	<u>rac</u>	<u>.</u>
2. Smilm rotundi Olia	<u> 2/)</u>	<u> </u>	<u> </u>	
3.	***	•	•	<u> </u>
J				-
4				-
5	_ `			- Hydrophytic
1	30	_ = Total Co	Wer	Vegetation
16		_	,	Present? Yes No
50% of total cover: 16	20%	of total cove	er:	-
Remarks: (If observed, list morphological adaptations be	low).			
1				

Depth Martix Select (motes) Second (motes) Seco	Profile Des	cription: (Describe	to the dep	th needed to docum	nent the i	ndicator	or confirm	the absence of in	dicators.)	1111.
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion Reduced Sand Grains. Type: C=Concentration, D=D		Matrix_		Redox					,	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. *Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils*: Indicators for Problematic Hydric Fish (Hill Red) Indicators for Problematic Hydric Fish (Hill Red) Indicators for Problematic Hydric Fish (Hill Red) Indicators for Problematic Hydric Fish (Hill Red) Indicators Hydric Fish (Hill Red) Indicators Hydric Fish (Hill Red) Indicators Hydric Fish (Hill Red) Indicators Hydric Fish (Hill Red) Indicators Hydric Fish (Hill Red) Indicators Hydric Fish (Hill Red) Indicators Hydric Fish (Hill Red) Indicators Hydric Fish (Hill Red) Indicators Hydric Fish (Hill Red) Indicators Hydric Fish (Hill Red) Indicators Hydric Fish (Hill Red) Indicators Hydric Fish (Hill Red) Indicators Hydric Fish (Hill Red) Indicators Hydric Fish (Hill Red) Indicators Hydric Fish (H	-			Color (moist)	%	Type ¹	_Loc²		Remarks	<u>s</u>
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. This tablection (A2) Thin Dark Surface (S9) (LRR S, T, U) Depleted Matrix (F3) Depleted Dark Surface (A12) Thin Dark Surfac										
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)	12-41	104RB/2	<u> </u>	117765/5		<u> </u>	<u>_w</u>	<u> </u>		
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)	-	-								
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)		-								
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)										
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)										
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)										
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)	¹Type: C≃	Concentration, D=De	pletion, RM	=Reduced Matrix, MS	=Masked	d Sand Gr	ains.	² Location: PL=	Pore Lining, M=Ma	atrix.
Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stralified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Stralified Layers (A5) Organic Bodies (A6) (LRR P, T, U) How keresence (A8) (LRR P, T, U) Depleted Matrix (F3) How keresence (A8) (LRR P, T, U) Depleted Dark Surface (F7) Houck Presence (A8) (LRR P, T) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Depleted Derive (A13) Hon-Manganese Masses (F12) (LRR P, T, U) Depleted Matrix (F3) How Keresence (A12) Depleted Derive (A13) How Keresence (A14) Depleted Derive (A15) How Muck (A9) (LRR P, T) Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151) Thick Dark Surface (A12) Umbric Surface (F13) (LRR P, T, U) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Redox (S5) Sandy Redox (S5) Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Does Not Not Carlot (A12) Thin Dark Surface (S9) (LRR S, T, U) Dorn Mucky Mineral (R10) (LRR O, S) Dark Surface (S7) (LRR P, S, T, U) Remarks: Does Not Not Carlot (A12) Thin Dark Surface (S9) (LRR O, P, T) Does Not Not Carlot (A12) Depleted Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Remarks: Does Not Not Carlot (A12) Thin Dark Surface (S9) (LRR O, P, T) Does Not Not Carlot (A12) Depleted Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Remarks: Does Not Not Carlot (A12) Thin Dark Surface (B10) (LRR O, B) Dark Surface (B10) Dark Su										
Black Histic (A3)				· =				J) 📙 1 cm Muck	(A9) (LRR O)	
Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Depleted Matrix (F3) Granic Bodies (A6) (LRR P, T, U) Depleted Matrix (F3) Granic Bodies (A6) (LRR P, T, U) Depleted Dark Surface (F6) Muck Presence (A8) (LRR P, T) Huck Presence (A8) (LRR P, T) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Redox (S5) Sandy Redox (S5) Sandy Redox (S5) Sandy Redox (S5) Dark Surface (S7) (LRR P, T, U) Redox Depleted Selow Dark Surface (A12) Coast Prairie Redox (A16) Redox Depleted Selow Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Depleted Ochric (F11) (MLRA 151) Reduced Vertic (F18) (MLRA 150A, 150B) Sandy Redox (S5) Sandy Redox (S5) Sandy Redox (S5) Sandy Redox (S5) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 1501) Redox Dark Surface (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Restrictive Layer (if observed): Type: Depth (inches): Dees Not Neet Depleted Dark Surface (F19) Redox Dark Surface (F19) Redox Depleted Ochric (F18) Mark Surface (F19) Mark Surf							•			
Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Som Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F6) Som Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7) Muck Presence (A8) (LRR P, T) 1 cm Muck (A9) (LRR P, T) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Redox (S5) Sandy Redox (S5) Delta Ochric (F17) (MLRA 150A) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Redox Depleted Matrix (F3) Depleted Dark Surface (F6) (MLRA 153B) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Other (Explain in Remarks) Other (Explain in Remarks) Poleta Ochric (F11) (MLRA 151) unless disturbed or problematic. Reduced Vertic (F18) (MLRA 150A, 150B) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Deeth Matrix (S6) Delta Ochric (F17) (MLRA 150A) Matrix (S6) Reduced Vertic (F18) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Depth (inches): Hydric Soil Present? Yes No				_			(0)			
Organic Bodies (A6) (LRR P, T, U) S om Mucky Mineral (A7) (LRR P, T, U) Muck Presence (A8) (LRR U) Redox Depressions (F8) Depleted Dark Surface (F7) Redox Depressions (F8) Ned Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Redox (S5) Sandy Redox (S5) Dark Surface (S7) (LRR P, S, T, U) Reduced Vertic (F18) (MLRA 150A, 150B) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Dees Not Need Depth (Act of S) Redox Dark Surface (F6) Redox Dark Surface (F7) Redox Depressions (F8) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Very Sha	_			= :		(i 2.)				
Muck Presence (A8) (LRR U)	🔲 Organ	c Bodies (A6) (LRR I		Redox Dark		F6)		(MLRA 1	3B)	`` '
1 cm Muck (A9) (LRR P, T)										
Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151) Irinck Dark Surface (A12) Irinch Dark Surface (A12) Irinch Dark Surface (A12) Irinch Dark Surface (A12) Irinch Dark Surface (F12) (LRR O, P, T) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Does Not New Depleted Ochric (F11) (MLRA 151) Irinch Daes Not New Distinct (F12) (LRR O, P, T) Irinch Daes Not New Distinct (F13) (LRR O, P, T, U) Irinch Daes Not New Distinct (F13) (LRR					-	σ)				(F12)
Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) unless disturbed or problematic. Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Restrictive Layer (if observed): Type: Depth (inches): Remarks: Does Not Neet Depth (Arch 151) Unless disturbed or problematic. Hydra 150A, 150B) Hydric Soil Present? Yes No						(MLRA 1	51)	Calci (Expi	an in remarks)	
Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) unless disturbed or problematic. Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Remarks: Does not Med Depte And Matrix Oction Does not Matrix Does not Med Depte And Matrix Matr	=	, ,		_				T) ³ Indicators	of hydrophytic ve	getation and
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Restrictive Layer (if observed): Type: Depth (inches): Remarks: Does not Med Deplace Mark Civ. Criteria Does not have Distinct Methods	 - 		-	· =			, U)			· 1
Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Depth (inches): Criteria Des not Need Depted Mark Mark Distinct Marks.			(LKK 0, S)				(0A 150R)		isturbed of proble	matic.
Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type:	I 			_						
Restrictive Layer (if observed): Type: Depth (inches): Depth (inches): Does not need Depteted Marcial Criteria Does not have Distinct Mettles	☐ Strippe	ed Matrix (S6)					-	•	D)	_
Type:										
Does not ned Depleted Marcial Criteria Does not have Distinct Mettles	_	e Layer (if observed):							
Does not ned Deploted Marcill Oriteria. Does not have Distinct Mottles	1	inches):						Usalaia Cail Dea		
Does not meet Depleted Matrix Oriteria. Does not have Distinct Mottles		mules).						Hydric Son Pre	entr res	
· ·	1	_		, np.,)	1 1	s. X	120			
· ·	1	Jues Mot	Ne	& Deple	46G	Mila	m City.			i
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Present		Chiteri	<u>, </u>	loes not	NO	VC.	Distr	Her INCH	(5)	,
Fresens		Ona.	<u>.</u>					* .		
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Upland data point wwio010_u facing north.

wwio Ollf_W

Project/Site: ACP	city/county: Wilson	(ø _.	Sampling Date: 10 July 2014
Applicant/Owner: Dominion			Sampling Point: www 08 11f_w
Investigator(s): K. Markham, J. bay	Section, Township, Range: _		
			RVC Slope (%): <2
	72628 Long:		
Soil Map Unit Name: Bibb laam	2019.	NWI classifi	PEO
Are climatic / hydrologic conditions on the site typical for this time of year	ar? Yes X No		
Are Vegetation, Soil, or Hydrology significantly			present? Yes No
Are Vegetation, Soil, or Hydrology naturally pro		explain any answe	
SUMMARY OF FINDINGS – Attach site map showing		•	·
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: Yes X No No No No No No No No No No No No No	Is the Sampled Area within a Wetland?	Yes	No
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Aquatic Fauna (B1:	3) 5) (LRR U)	Surface Soil Sparsely Vo	ators (minimum of two required) I Cracks (B6) egetated Concave Surface (B8) atterns (B10)
Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)	neres along Living Roots (C3) ced Iron (C4) ction in Tilled Soils (C6) e (C7)	Dry-Seasor Crayfish Bu Saturation Geomorphi Shallow Aq FAC-Neutri	visible on Aerial Imagery (C9) c Position (D2)
Field Observations: Surface Water Present? Yes No Depth (inches Water Table Present? Yes No Depth (inches Saturation Present? Yes No Depth (inches (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photographs)	s):		ent? Yes No
Remarks:			

20 × 20		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 x 30)		Species?		Number of Dominant Species
1. Liriodendron tulipitera	50	\	FACU	That Are OBL, FACW, or FAC:(A)
2				Total Number of Dominant
3				Species Across All Strata:
4				
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 86 (A/B)
6				That Are OBE, I ACTV, OIT AC.
7				Prevalence Index worksheet:
				Total % Cover of:Multiply_by:
8	50	= Total Cov		OBL species x1 =
			1.0	FACW species x 2 =
50% of total cover: <u>25</u>	20% of	total cover:		FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 15x 15)	<i>~</i>	V	T- 4 c	FACU species x 4 =
1. Lighthum sinense	<u>80</u>		FAC	UPL species x5 =
2. Lirioderdvon fulipitara		<u>''</u>	FACU	1
3. Ilex opera		N	FAC	Column Totals: (A) (B)
4				Prevalence Index = B/A =
5.				Hydrophytic Vegetation Indicators:
6.				A - Rapid Test for Hydrophytic Vegetation A - Rapid Test for Hydrophytic Vegetation
7				===/
				2 - Dominance Test is >50%
8	90	= Total Cov		3 - Prevalence Index is ≤3.0¹
500/16/11/1-11/11/45	000/		. 67	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 45 Herb Stratum (Plot size: 5 × 5)	20% 01	f total cover	:	
	113	N	OBL	Indicators of hydric soil and wetland hydrology must
1. Woodwardia areolata	_ 10	- '		be present, unless disturbed or problematic.
2. Impotiens so.	<u></u> り	<u> </u>	FACW	Definitions of Four Vegetation Strata:
3. <u>Lighstrum</u> sinense		<u> </u>	FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub - Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8.				
9				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10	·	· 		Woody vine - All woody vines greater than 3.28 ft in
11				height.
12				
	<u> 25</u>	= Total Co	-	
50% of total cover: 12	20% ر	of total cove	r: <u>5</u>	
Woody Vine Stratum (Plot size: 15メ15)	_		-	
1. Smilax roturdifolia	26	'	<u> Fac</u>	
2. Vitis rotundiblia	30	<u> </u>	FAC	
3. Dioscorea villosa	5	N	FACW	
4. Vitis aestivalis	10	N	FACU	
5				
V	65	_ = Total Co	· ·····	Hydrophytic Vegetation
50% of total cover: 32.		-	1/2	Present? Yes No No
E .		of total cove		
Remarks: (If observed, list morphological adaptations be	low).			

Sampling Point: www.oglf_w

Depth	Matrix	/	h needed to docur Redo	x Features				
(inches)	Color (moist)	%	Color (moist)		Type ¹	Loc²	Texture	Remarks
0-6	10YR 4/2				_		SCL	
6.20	10 YF 4/1	95	107R 513		$\overline{}$	\overline{M}	SCL	
6 20	10/11/11	· [3 -	(0 (16.)()	. <u> </u>				
		. .						
		· ·						
						 ·		
	oncentration, D=Dep					ins.		Pore Lining, M=Matrix.
	Indicators: (Applic	able to all I			-		·	Problematic Hydric Soils ³ :
Histosol			Polyvalue Be					(A9) (LRR O)
_	oipedon (A2)		Thin Dark Su					(A10) (LRR S)
Black His	stic (A3) en Sulfide (A4)		Loamy Muck			0)		ertic (F18) (outside MLRA 150A,B)
= -	d Layers (A5)		Depleted Ma	•	د)			loodplain Soils (F19) (LRR P, S, T) Bright Loamy Soils (F20)
	Bodies (A6) (LRR P	. T. U\	Redox Dark		١		(MLRA 1	
	icky Mineral (A7) (LF		Depleted Da				1 1 '	Material (TF2)
	esence (A8) (LRR U		Redox Depre					w Dark Surface (TF12)
🔲 1 cm Mເ	ick (A9) (LRR P, T)		☐ Marl (F10) (L	LRR U)			Other (Expl	ain in Remarks)
	d Below Dark Surfac	e (A11)	Depleted Oc					
	ark Surface (A12)		☐ Iron-Mangar				•	s of hydrophytic vegetation and
	rairie Redox (A16) (I		_			, U)		hydrology must be present,
	Mucky Mineral (S1) (I	LRR O, S)	Delta Ochric				uniess o	listurbed or problematic.
	Gleyed Matrix (S4)		Reduced Ve				\ A \	
_	Redox (S5) I Matrix (S6)		Piedmont Fl			•	9A) A 149A, 153C, 153	יחי
=	rface (S7) (LRR P, \$	S T III	Atlottialous i	ongni Loam	y Sons ((MILIN	4 149A, 103G, 103	,
	Layer (if observed)							
Туре:	,	•						
	ches):						Hudric Soil Dro	sent? Yes X No
Remarks:							Hydric Son Fre	Sentr les / 140
Remarks.								
				-				
				-				
				·				
		,						
		·						



Wetland data point wwio011f_w facing south.

wwwio Oll_u

Project/Site: ACP City	y/County: Wilson Sampling Date: 10 July 2014
Applicant/Owner Dominion	State: NC Sampling Point: Wwio ØII - U
Investigator(s): K. Markham J. Gay Ser	ction, Township, Range: NA cal relief (concave, convex, none): Concave Slope (%): 5 72637 Long: 78.08600 Datum: W651984
Landform (hillslone terrace etc.): Terrace	cal relief (concave, convex, none); CONCOVC Slope (%): 5
Subressian (I BB or MI BA):	72637 Jong: 78.08600 Datum: WGS 1984
Soil Map Unit Name: Bibb loam	NWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time of year?	No. //f no. avaloin in Romarka
Are Vegetation, Soil, or Hydrology significantly dis	
Are Vegetation, Soil, or Hydrology naturally proble	•
SUMMARY OF FINDINGS – Attach site map showing sa	ampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	Is the Sampled Area
Hydric Soil Present? Yes No	within a Wetland? Yes No
Hydric Soil Present? Wetland Hydrology Present? Yes No No No No No No No No No No No No No	
Remarks: Edge of Soybean field.	
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) Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Harl Deposits (B15) (· · · · · · · · · · · · · · · · · · ·
☐ Saturation (A3) ☐ Hydrogen Sulfide Odd	
 	es along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2) Drift Deposits (B3) Presence of Reduced Recent Iron Reductio	· · · · · · · · · · · · · · · · · · ·
Algal Mat or Crust (B4) Thin Muck Surface (C	
Iron Deposits (B5) Other (Explain in Rer	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
☐ Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	NR
Surface Water Present? Yes No _X Depth (inches):	
Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches):	 1
(includes capillary fringe)	Treatment for the second for the sec
Describe Recorded Data (stream gauge, monitoring well, aerial photos	, previous inspections), if available:
Remarks:	
	D.

22	Absolute	Dominant	Indicator	Dominance Test worksheet:
		Species?	_Status_	Number of Dominant Species
1. <u>Liriadendon tulipifera</u>	20		FACU	That Are OBL, FACW, or FAC: (A)
2				Total Monte of Descious
3				Total Number of Dominant Species Across All Strata: (B)
4				(b)
				Percent of Dominant Species That Are ORL FACING or FAC:
5				That Are OBL, FACW, or FAC: (A/B)
6				Prevalence index worksheet:
7				Total % Cover of: Multiply by:
8				
	20	= Total Cov	/er	OBL species x 1 =
50% of total cover:		f total cover	, , ,	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 15 x/5)				FAC species x 3 =
1. Sassafras album	2	N	FACU	FACU species x 4 =
2. Liquestrum sinense	30	7	FAC	UPL species x 5 =
		-	- A-c	Column Totals: (A) (B)
3. Rubus argutus				
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8.				3 - Prevalence Index is ≤3.0¹
	42	= Total Co	ver	l =
50% of total cover: 21				Problematic Hydrophytic Vegetation ¹ (Explain)
l — —	20%0	i total cover	·	
Herb Stratum (Plot size: 5 x 5) 1. Microstajum rimineum	95	V	FAC	Indicators of hydric soil and wetland hydrology must
1. Michos ichom www.	- 5	· - !		be present, unless disturbed or problematic.
2. Phytolacca americana		<u> N</u>	<u>FACU</u>	Definitions of Four Vegetation Strata:
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6.				ContinuiCharle Mandradu alonte avaluding vince loss
				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7				and an about the state of the s
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12				
	loo	= Total Co	ver	
50% of total cover: 5	_	of total cove		
Woody Vine Stratum (Plot size: 15 x /5)		JI (0101 0070		
1 Smilax robudialia	15	Y	FAC	
1 '		!	- —	
2. Vits rotundifolia	30		FAC	
3. Vitis aestivalis	5	<u> </u>	PACU	
4.				
5.				Hooder of the de-
<u> </u>	40	_ = Total Co	- —	Hydrophytic Vegetation
20			~	Present? Yes No No
50% of total cover: 20		of total cove	er:	· <u> </u>
Remarks: (If observed, list morphological adaptations below	ow).			

Sampling Point:	mm10011-u

Profile Description: (Describe to the depth needed to document the indicator or confirm	m the absence of indicators.)
Depth Matrix Redox Features (inches) Color (moist) % Color (moist) % Type ¹ Loc ²	Tardina
	Texture Remarks LS
10.20 YR 4/2 100	SCL
<u> </u>	
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
☐ Histosol (A1) ☐ Polyvalue Below Surface (S8) (LRR S, T,	U) 1 cm Muck (A9) (LRR O)
Histic Epipedon (A2) Thin Dark Surface (S9) (LRR S, T, U)	2 cm Muck (A10) (LRR \$)
☐ Black Histic (A3) ☐ Loamy Mucky Mineral (F1) (LRR 0)	Reduced Vertic (F18) (outside MLRA 150A,B)
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2)	Piedmont Floodplain Soils (F19) (LRR P, S, T)
Stratified Layers (A5) Depleted Matrix (F3)	Anomalous Bright Loamy Soils (F20)
Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) Depleted Bork Surface (F7)	(MLRA 153B)
5 cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7) Muck Presence (A8) (LRR U) Redox Depressions (F8)	Red Parent Material (TF2) Very Shallow Dark Surface (TF12)
1 cm Muck (A9) (LRR P, T) Mari (F10) (LRR U)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151)	action (plant in Contactor)
Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, F	P, T) Indicators of hydrophytic vegetation and
Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U)	wetland hydrology must be present,
Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151)	unless disturbed or problematic.
Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150E	•
Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 1	•
Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (ML	.RA 149A, 153C, 153D)
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed):	
Type:	Hydric Soil Present? Yes No_X
Depth (inches):	Hydric Soil Present? Yes No
Remarks:	
	•



Upland data point wwio011_u facing south.

wwwio012f-w

Project/Site:	ACP		City/C	County: W	ilson (Co.	Sampling Date:	11 July 2014 www.olaf-W
	er Domin	i n.w		<u></u>	Sta	ate: MC	Sampling Point	www.olaf-W
• •	J.Gan		Secti					
Landform (hills)	one terrace etc.)	: Side shoe	Local	relief (concave	e, convex, no	ne): Poyle	ave slo	pe (%).5
	Ror MLRA):	-	1at 35,76	2423	Long: 7	8.0865	4 D	atum: WGS 1984
	lame: Phy	`.					cation: PFO	
		ns on the site typical fo	r this time of year?	Yes 🔭 No	o (If		•	
		, or Hydrology) No
•		, or Hydrology	-				ers in Remarks.)	
		S – Attach site m			•	_		features, etc.
Hydric Soil Pi Wetland Hydi	rology Present?	Yes Yes		Is the Samp within a We		Yes	, No	
Remarks:	Rain Eu	ent in Pe	1 -51 +2	10V(Z				
HYDROLO	 GY			· · · · · · · · · · · · · · · · · · ·		<u>'</u>	,	
Wetland Hyd	drology Indicator	s:			<u> </u>	Secondary India	cators (minimum	of two required)
· -	* *	f one is required: chec	(all that apply)		[Surface So	il Cracks (B6)	
	Water (A1)		uatic Fauna (B13)		<u> </u>		egetated Concav	e Surface (B8)
4.	iter Table (A2)		rl Deposits (B15) (LF		<u> </u> 	_	atterns (B10)	
Saturation			drogen Sulfide Odor dized Rhizospheres		oote (C3) 	_	Lines (B16) n Water Table (C	2)
1 1-1	arks (B1) nt Deposits (B2)		sence of Reduced I		0018 (03)	_	urrows (C8)	-,
1 —	oosits (B3)	17	cent Iron Reduction		C6) . [_	Visible on Aerial	Imagery (C9)
	at or Crust (B4)		n Muck Surface (C7		ľ	Seomorph	ic Position (D2)	
Iron Dep	oosits (B5)	<u>□</u> Otl	ner (Explain in Rema	arks)		=	quitard (D3)	
1 ==	on Visible on Aeri					_	al Test (D5)	
	tained Leaves (B	9)		-			moss (D8) (LRR	(T, U)
Field Obser	vations:	Yes No	Donth (inches):	NA				
Water Table	Procent?	Yes No	Depth (inches):	>18				
Saturation P		Yes No		10	Wetland H	ydrology Pres	ent? Yes 1	No
(includes car	pillary fringe)			4 ×61				
Describe Re	corded Data (stre	am gauge, monitoring	well, aenal photos, p	revious inspec	tions), it avai	lable:		
Remarks:		-						
,			ē					

2 \ 30	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 3/×30) 1. Liriadendron fulipifem	% Cover	Species?	FAC 4	Number of Dominant Species That Are OBL, FACW, or FAC:
2. Acer ruhrum	20	1	FAC	
3				Total Number of Dominant Species Across All Strata: (B)
4				B 44B 4 4B
5				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7				
8				
	90	= Total Cov	/er	OBL species x 1 =
50% of total cover: 45	20% of	ftotal cover	: <u>1 8 </u>	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 15 × 15)				FAC species x 3 =
1 / janetown Synones	3/1	У	FAC	FACU species x 4 =
2 Light dampar styraciflus	<u> </u>	·N	EAC	UPL species x 5 =
3. Acer rubrum	5	$\overline{}$	FAC	Column Totals: (A) (B)
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6.				
7				Rapid Test for Hydrophytic Vegetation
8.				2 - Dominance Test is >50%
0	110	= Total Co		3 - Prevalence Index is ≤3.0¹
· • • • •				Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover:	≰ ⁄ 20% o	f total cover	:	
Herb Stratum (Plot size: 5 75)	-	v		¹ Indicators of hydric soil and wetland hydrology must
1. Acingli Macia gracintes		- 	FACW	be present, unless disturbed or problematic.
2. Microchailm O Gimineum	<u> </u>	<u> </u>	FAC	Definitions of Four Vegetation Strata:
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6.				Sapling/Shrub - Woody plants, excluding vines, less
7.				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				
9.				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10	•	• ——		Woody vine - All woody vines greater than 3.28 ft in
11.		-	•	height.
12.				
3 =	+	_= Total Co	h	
50% of total cover: 3 5	20% c	of total cove	r: 1.4	
Woody Vine Stratum (Plot size: 15 x/5)	سر.	V		
1. Smiles Cotundi Pola	<u> </u>		<u>FAC</u>	
2		_	· 	
3				
4.				
5.		, ,	-	
· ·	15	_ = Total Co		Hydrophytic Vegetation
50% of total cover: 3.5			92.	Present? Yes No No
		of total cove	er: <u>V</u>	
Remarks: (If observed, list morphological adaptations bel	low).			
	•			
•				

Profile Desc	ription: (Describe	to the dept	h needed to docum	nent the i	ndicator	or confirm	the absence	of indicators.)	
Depth (inches)	Matrix Color (moist)	 .	Redox Color (moist)	x Feature	s _Type¹	Loc²	Texture	Remarks	
(inches)		100	Color (Illoist)		<u>rype</u>	LUC			
<u>\$-36</u>	107R 5/7		1 4m h O 10 10 1					<u>\$2(</u>	
9-20	10-124/2	95	1012 5/4	5_		<u>M</u>		<u> </u>	<u> </u>
								· · · · · · · · · · · · · · · · · · ·	
									1
		· — —							
		. ——		. ——					— ļ
1							2,		
	oncentration, D=Dep Indicators: (Applic					ains.		PL=Pore Lining, M=Matrix. for Problematic Hydric Soils ³ :	
1	• • •	able to an	Polyvalue Be		-	DD C T I	_	luck (A9) (LRR O)	
Histosol	oipedon (A2)		Thin Dark Su					luck (A10) (LRR S)	
· •	istic (A3)		Loamy Muck					ed Vertic (F18) (outside MLRA 1	50A,B)
: -	en Sulfide (A4)		Loamy Gleye					ont Floodplain Soils (F19) (LRR F	
	d Layers (A5)		Depleted Ma					lous Bright Loamy Soils (F20)	1
	Bodies (A6) (LRR P		Redox Dark	•	•			RA 153B)	
	ucky Mineral (A7) (LI resence (A8) (LRR L		Depleted Da Redox Depre					arent Material (TF2) hallow Dark Surface (TF12)	ļ
1 ==	uck (A9) (LRR P, T)	′1	Mari (F10) (L		J)			(Explain in Remarks)]
	d Below Dark Surfac	e (A11)	☐ Depleted Oc		(MLRA 1	51)		(— · · · · · · · · · · · · · · · · · ·	
Thick D	ark Surface (A12)		Iron-Mangan	nese Mass	ses (F12)	LRR O, P,	T) ³ Indic	ators of hydrophytic vegetation a	nd
	rairie Redox (A16) (I					`, U)		land hydrology must be present,	
	Mucky Mineral (S1) (LRR O, S)	Delta Ochric			-0.4 4505		ess disturbed or problematic.	
	Gleyed Matrix (S4) Redox (S5)		Reduced Ve						ļ
	d Matrix (S6)		_			-	73A) RA 149A, 153C	. 153D)	
1 ==	ırface (S7) (LRR P,	S, T, U)			,	, .	. ,	, ,	
	Layer (if observed)				•				
Type:									
Depth (in	nches):						Hydric Soil	Present? Yes No_	
Remarks:							!-		
ļ									



Wetland data point wwio012f_w facing south.

Project/Site: ACP	City/County: Bailey / Wilson Sampli	ing Date: 11 July Zor
Applicant/Owner: Down Aim	State: NC Sampl	ing Point: wwi 0 0/2.
Investigator(s): T. GAY	Section, Township, Range: NA	•
Landform (hillslope, terrace, etc.): Side Slope	Local relief (concave, convex, none): CONCAVE	Slope (%): 10
Subregion (LRR) or MLRA): Lat:	35,72430 Long: 78,08642	Datum: WGS 1984
		WAY TOUR
Con 111ab Chil 110ah Chi	NWI classification: _	
Are climatic / hydrologic conditions on the site typical for this time.		_
Are Vegetation, Soil, or Hydrology signi	ificantly disturbed? Are "Normal Circumstances" present?	? Yes No
Are Vegetation, Soil, or Hydrology natu	rally problematic? (If needed, explain any answers in Re	emarks.)
SUMMARY OF FINDINGS – Attach site map she	owing sampling point locations, transects, impe	ortant features, etc.
Hydrophytic Vegetation Present? Yes No	Is the Sampled Area	
Hydric Soil Present? Yes No		10
Wetland Hydrology Present? Yes No _	<u> </u>	
Remarks:		
HYDROLOGY		
Wetland Hydrology Indicators:	Secondary Indicators (m	ninimum of two required)
Primary Indicators (minimum of one is required: check all that	t apply) Surface Soil Cracks	s (B6)
Surface Water (A1)	una (B13) 🖳 Sparsely Vegetated	d Concave Surface (B8)
	sits (B15) (LRR U)	•
	Sulfide Odor (C1)	· •
1 = ''	thizospheres along Living Roots (C3) Dry-Season Water	
1 	of Reduced Iron (C4) In Reduction in Tilled Soils (C6) Crayfish Burrows (Can be provided by the control of th	on Aerial Imagery (C9)
	Surface (C7) Saturation Visible of Surface (C7)	
 	olain in Remarks) Shallow Aquitard (I	· · ·
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (1
Water-Stained Leaves (B9)	Sphagnum moss (I	D8) (LRR T, U)
Field Observations:		
Surface Water Present? Yes No Depth	i (inches):	
	(inches):	_
Saturation Present? Yes No Depth (includes capillary fringe)	(inches): Wetland Hydrology Present? Y	res No
Describe Recorded Data (stream gauge, monitoring well, ae	rial photos, previous inspections), if available:	·
Remarks:		
,		
<i>₹</i>		

* or M	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 x30 9t)		Species?		Number of Deminent Charles
1. Litiodanden tulioifaa	70	V	FAC 4	That Are OBL, FACW, or FAC:
•		-		That rice obe, triott, or trio.
2				Total Number of Dominant
3				Species Across All Strata: (B)
4				· · · · · · · · · · · · · · · · · · ·
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 67 (A/B)
				That Are OBL, FACW, or FAC:
6				Prevalence Index worksheet:
7				
8				Total % Cover of: Multiply by:
	30	= Total Cov	er	OBL species x 1 =
50% of the land 35		f total cover		FACW species x 2 =
50% of total cover: 35	20% 0	i totai cover		FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 15 × 15 P)		14 .	==	
1 Friendon deux Livilia Vans		<u>y</u> `	FAC U	FACU species x 4 =
2 Liquetrum Sinense	15	'y.	FAC	UPL species x 5 =
3. Aralin Spinosa		u	FAC	Column Totals: (A) (B)
3. M. W. LIW. D. LIDEN		- }	177	, , ,, , ,
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
				1
<u></u>				- Rapid Test for Hydrophytic Vegetation
7		· ———		2 - Dominance Test is >50%
8				☐ 3 - Prevalence Index is ≤3.01
	25	= Total Co	ver	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 12.5	20%	f total cover	. 5	The Problematic Hydrophytic Vegetation (Explain)
50% of total cover	20700	ii totai covei	·	
Herb Stratum (Plot size: 5 × 5 ++)	1.04	٠,	E4.0	¹ Indicators of hydric soil and wetland hydrology must
1. Microstenium Vinn. neum	<u> </u>	<u> </u>	174C	be present, unless disturbed or problematic.
2		,		Definitions of Four Vegetation Strata:
3				Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6				Senting/Shark Woody plants evaluding vines less
				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7				than 5 m. 55 rand greater than 5.25 k (1 m) tan.
8	- 		· ———	Herb - All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				
	-			Woody vine – All woody vines greater than 3.28 ft in
11.				height.
12				.
	1()	_= Total Co	ver	
50% of total cover:	200/	of total cove	-	
	20 70 (or total cove		1
	9.7	V	500	
1. C milar Fotunti Folia	<u> </u>		<u> </u>	.
2. Vitis Cotuntifolia	5	N	FAC	
3. Chim Dois radicans	- - 1	-	FAA	1
3. Y PAINS BOOK Y EARLY WITS			170	•
4			- —	.
5.				- Hydrophytic
	36	_ = Total Co	wer	Vegetation
150		_	- ')	Present? Yes No
50% of total cover:		of total cove	er: <u>"I ***</u>	·
Remarks: (If observed, list morphological adaptations be	low).	- "		
				· ·
				!

Profile Desc	ription: (Describe t	o the depth	needed to docur	nent the i	ndicator	or confirm	the absence	of indicator	s.)	
Depth (inches)	Matrix Color (moist)		Redo Color (moist)	x Features	Type ¹	Loc²	Texture		Remarks	
0-6	101R4/3	NQD	Color (moist)		TAbe	LUC	Texture	516	Remains	
		100		· ——				506		
6-14	104R 5/2									
14-50	104R5/3	<u> 160</u>						<u> 30 レ</u>		
	•									
										
		<u> </u>								
	oncentration, D=Depl					ains.			ning, M=Matrix natic Hydric 9	
Histosol	Indicators: (Applica	adie to ali Li	Rks, unless otne		-	DD C T II		for Problem fluck (A9) (L	· -	oons:
· =	pipedon (A2)		Thin Dark St					//uck (A3) (L //uck (A10) (•
	istic (A3)		Loamy Muck	y Mineral	(F1) (LRF					MLRA 150A,B)
1 1	en Sulfide (A4)		Loamy Gley		(F2)			•		(LRR P, S, T)
	d Layers (A5) Bodies (A6) (LRR P	T 10	Depleted Ma		F6)			alous Bright RA 153B)	Loamy Soils (I	F20)
	ucky Mineral (A7) (LF		Depleted Da	•	•			arent Materi	al (TF2)	
Muck P	resence (A8) (LRR U		Redox Depr	essions (F			Very S	Shallow Dark	Surface (TF1	2)
	uck (A9) (LRR P, T)	~ / 6.4.4.\	Mari (F10) (I		(NO D4 4	E4)	L Other	(Explain in F	Remarks)	
	d Below Dark Surface ark Surface (A12)	e (A11)	☐ Depleted Oc ☐ Iron-Mangar			-	T) ³ India	cators of hyd	rophytic veget	iation and
$\cdot =$	rairie Redox (A16) (N	/LRA 150A)	_						gy must be pr	
1 ===	Mucky Mineral (S1) (I	RR O, S)	Delta Ochric					less disturbe	d or problema	tic.
	Gleyed Matrix (S4) Redox (S5)		Reduced Ve							ļ
	d Matrix (S6)						A 149A, 1530	c, 153D)		
Dark Si	urface (S7) (LRR P, S		_		•					
Restrictive	Layer (if observed):	1								
Type:							l			
	nches):	•	 _				Hydric Soi	I Present?	Yes	. No <u>\</u>
Remarks:										
										•
										•



Upland data point wwio012_u facing north.

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region City/County: NOT 1825 _____ Sampling Date: $\underline{\mathcal{I}}$ Project/Site: Applicant/Owner: Dominion Sampling Point: WWTO 013 Investigator(s): FSI LL Koper ____ Section, Township, Range: V Local relief (concave, convex, none): (CANCAVE Slope (%): Landform (hillslope, terrace, etc.): dvainage Long: -76.08 679 Subregion (LRR or MLRA): LER P Soil Map Unit Name: 60 136 1500 Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No _____ (If no, explain in Remarks.) Are Vegetation _____, Soil _____, or Hydrology ______ significantly disturbed? Are "Normal Circumstances" present? Yes Are Vegetation _____, Soil _____, or Hydrology _____ __ naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Remarks: **HYDROLOGY** Secondary Indicators (minimum of two required) Wetland Hydrology Indicators: Surface Soil Cracks (B6) Primary Indicators (minimum of one is required; check all that apply) Aquatic Fauna (B13) Sparsely Vegetated Concave Surface (B8) Surface Water (A1) Marl Deposits (B15) (LRR U) Drainage Patterns (B10) High Water Table (A2) ☐ Saturation (A3) Hydrogen Sulfide Odor (C1) Moss Trim Lines (B16) Oxidized Rhizospheres along Living Roots (C3) Water Marks (B1) Dry-Season Water Table (C2) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Sediment Deposits (B2) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Algal Mat or Crust (B4) Thin Muck Surface (C7) Geomorphic Position (D2) Other (Explain in Remarks) Shallow Aquitard (D3) Iron Deposits (B5) FAC-Neutral Test (D5) Joundation Visible on Aerial Imagery (B7) Sphagnum moss (D8) (LRR T, U) Water-Stained Leaves (B9) Field Observations: __ Depth (inches): _ Surface Water Present? Yes _____ No V Depth (inches): _ Water Table Present? No V Depth (inches): _ Wetland Hydrology Present? Yes Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

	At l. I			D
Tree Stratum (Plot size: 30 +36)		Dominant		Dominance Test worksheet:
		Species?		Number of Dominant Species
1. Pinus facdo	<u> 40</u>	<u> </u>	PAL.	That Are OBL, FACW, or FAC: (A)
2. Heer nobnan	15	Ń	FYAC	
3. Quenos nimas	10	7	PAC	Total Number of Dominant Species Across All Strata: (B)
3. TOVENTOS Y TOVING	- 100	- 1		Species Across All Strata: (B)
4. Liewidumber Atymeittea	15		PAL	Percent of Dominant Species
5				That Are OBL, FACW, or FAC: (A/B)
				That Ale OBL, FACW, SI PAC
6				Prevalence Index worksheet:
7				· ·
8.				Total % Cover of: Multiply by:
0	00	= Total Co		OBL species x1 =
l) a	190			FACW species x 2 =
50% of total cover: 40	20% o	f total cove	r: <u> 1 </u>	
Constitution to Charles Charles (Distriction 3/0x/30)				FAC species x 3 =
P 1 1	5	4	MACLO	FACU species x 4 =
1. Belula inigra		,	. 	UPL species x 5 =
2. Liquidanter Styragitlan	<u> </u>	<u> </u>	PAC	i i
1 7	ť		•	Column Totals: (A) (B)
3				
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
				1
6			•	1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8.				3 - Prevalence Index is ≤3.0¹
	-	- Tetal O		1
A	4. <u>1:</u>	= Total Co	over	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	ဳ 20% o	f total cove	er:	
Herb Stratum (Plot size: <u>30x ジ</u>)				1
Heid Stratum (Flot size	rain gra	14	5.46	¹ Indicators of hydric soil and wetland hydrology must
1. Mila Ostcom viminala	<u> </u>	_ `}	100	be present, unless disturbed or problematic.
2				Definitions of Four Vegetation Strata:
3		-		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				
				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Note and the All translations progress them 2.20 ft in
		-		Woody vine – All woody vines greater than 3.28 ft in
11				height.
12				
	30	_ = Total C	over	
50% of total cover:		_		
50 % of total 60 tot.	<u>4</u> 20% (of total cove	er: <u>10</u>	.]
Woody Vine Stratum (Plot size: 30 x 30)				
/	5	4	DW.	
1. smilax roundifolia	5	<u> </u>	PAC	
/	<u>5</u>	- 4	PAC	
1. smilax rotundifolia 2. Vitos whendifolia	<u>5</u>	- - - - - - - - - -	PRE	
1. smilax rotudifolia 2. Vitis who difolia 3.	<u>5</u> 3	- - - - - - - - - -	PRE	
1. smilax rotundifolia 2. Vitos whendifolia	<u>5</u> 3	- 4	PRE	
1. smilax rotudifolia 2. Vitis who difolia 3.	5	- 4 - - 4	PRE	Hydrophytic
1. smilax rotudifolia 2. Vitis who difolia 3.	5	= Total C	PRC PRC	Hydrophytic Vegetation
1. smilax rotudifolia 2. Vits whindifolia 3. 4. 5.				Hydrophytic Vegetation Present? Yes No
1. smilax rotudifolia 2. Vitis who difolia 3.				Vegetation
1. Smilax rotundifolia 2. Vits whindifolia 3. 4. 5. 50% of total cover:	20%			Vegetation
1. smilax rotudifolia 2. Vits whindifolia 3. 4. 5.	20%			Vegetation
1. smilax rotudifolia 2. Vits who difolia 3. 4. 5. 50% of total cover:	20%			Vegetation
1. Smilax rotundifolia 2. Vits whindifolia 3. 4. 5. 50% of total cover:	20%			Vegetation
1. Smilax rotundifolia 2. Vits whindifolia 3. 4. 5. 50% of total cover:	20%			Vegetation
1. smilax rotudifolia 2. Vits who difolia 3. 4. 5. 50% of total cover:	20%			Vegetation
1. smilax rotudifolia 2. Vits who difolia 3. 4. 5. 50% of total cover:	20%			Vegetation
1. smilax rotudifolia 2. Vits who difolia 3. 4. 5. 50% of total cover:	20%			Vegetation
1. smilax rotudifolia 2. Vits who difolia 3. 4. 5. 50% of total cover:	20%			Vegetation

Profile Desc	ription: (Describe	to the dept	n needed to docum	nent the i	ndicator	or confirm	n the absence o	f indicators.)			
Depth (inches)	Matrix Color (moist)		Redox Color (moist)	<u>Features</u> %	Type ¹	_Loc²	Texture	Remarks			
(inches)	1016 2/1	100	Color (moist)				<u>stare</u>	r/elligiv2			
11-14	25/5/2	95	7.5 YR 5/8				SCL	· .			
14-204	2515/2			-5-	<u></u>	<u>M</u>	<u> 300 </u>				
1 TON	7.5 1712	90	7.5 YR 5/R	11)		1.1	<u> </u>				
<u> </u>											
l											
¹Type: C=C	oncentration, D=Dep	letion, RM=	Reduced Matrix, MS	=Masked	Sand Gra	ains.		PL=Pore Lining, M=Matrix.			
Hydric Soil	Indicators: (Applic	able to all I	.RRs, unless other	wise not	ed.)		_	or Problematic Hydric Soils ³ :			
Histosol			Polyvalue Bel					uck (A9) (LRR O)			
Histic Ep	oipedon (A2)		Thin Dark Sur Loamy Mucky					uck (A10) (LRR S)			
_	n Sulfide (A4)		Loamy Gleye			. 0)		Reduced Vertic (F18) (outside MLRA 150A,B) Piedmont Floodplain Soils (F19) (LRR P, S, T)			
	Layers (A5)		Depleted Mat		. ,			ous Bright Loamy Soils (F20)			
	Bodies (A6) (LRR P		Redox Dark S				·	A 153B)			
	icky Mineral (A7) (Ll esence (A8) (LRR U	-	Depleted Dar Redox Depre					rent Material (TF2) nallow Dark Surface (TF12)			
_	ick (A9) (LRR P, T)	''	Mari (F10) (L	•	0)			Explain in Remarks)			
	d Below Dark Surfac	e (A11)	Depleted Och		(MLRA 1	51)		,			
ı =	ark Surface (A12)		Iron-Mangane					tors of hydrophytic vegetation and			
	rairie Redox (A16) (I		·		-	, U)	wetland hydrology must be present, unless disturbed or problematic.				
	lucky Mineral (S1) (l Bleyed Matrix (S4)	LKK (), 5)	Delta Ochric Reduced Ver			OA. 150B		ss disturbed or problematic.			
_	Redox (S5)		Piedmont Flo								
	Matrix (S6)		Anomalous B	Bright Loa	my Soils (F20) (MLF	RA 149A, 153C,	153D)			
	rface (S7) (LRR P,										
	Layer (if observed)	:						فتعوثه			
Type:	ches):	••					Hydric Soil I	Present? Yes No			
Remarks:							Tiyane don i	1636161 163 4 140			
I Cerriana.											
								l de la companya de la companya de la companya de la companya de la companya de la companya de la companya de			
					,						

Environmental Field Surveys Wetland Photo Page



Wetland data point wwio013f_w facing south.

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: ACP	_ City/County: \chi \chi \6	on	Sampling Date: 7/14/14
Applicant/Owner: Drwin on			Sampling Point: www ool3 - 4
Investigator(s): EST LL Poper)			
Landform (hillslope, terrace, etc.):	Local relief (concave, convex	c none): [/x\f	W12 Slope (%): 0-41.
Subregion (LRR or MLRA): 120 C P C Lat: 35	5.71781 Long:	-78,088	84 Datum: WUSBY
Soil Map Unit Name: 6-01250500			ation: NA
Are climatic / hydrologic conditions on the site typical for this time of			
			present? Yes No
Are Vegetation, Soil, or Hydrology significant Are Vegetation, Soil, or Hydrology naturally p			
SUMMARY OF FINDINGS Attach site map showing	•	, explain any answe	·
		ions, transects	, important leatures, etc.
Hydrophytic Vegetation Present? Yes No	- Is the Sampled Area	l	2000
Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	within a Wetland?	Yes	No
Remarks:			
·			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply	Λ	Surface Soil	· · · · · · · · · · · · · · · · · · ·
Surface Water (A1) Aquatic Fauna (B		 1	getated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B	•	Drainage Pa	- · · · · · · · · · · · · · · · · · · ·
Saturation (A3) Hydrogen Sulfide		Moss Trim L	
	pheres along Living Roots (C3)	Dry-Season	Water Table (C2)
Sediment Deposits (B2)	luced Iron (C4)	Crayfish Bur	rows (C8)
	uction in Tilled Soils (C6)	Saturation V	isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	• •		Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in	Remarks)	☐ Shallow Aqu	` '
Inundation Visible on Aerial Imagery (B7)		FAC-Neutra	
		Sphaghum	moss (D8) (LRR T, U)
Surface Water Present? Yes No , Depth (inch	es). NA		
Surface Water Present? Yes No, Depth (inch Water Table Present? Yes No, Depth (inch	es): >20		
Saturation Present? Yes No V Depth (inch	es): 770 Wetland	d Hydrology Prese	nt? Yes No
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monitoring well, aerial ph	otos, previous inspections), ir a	vallable:	
Remarks:			
			•
			1
			İ

	Abcoluto	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 K30)	% Cover			
l ————·		Openes:		Number of Dominant Species That Are OBL FACW or FAC: (A)
1. Pinus taeda	<u> 40</u>		PAC	That Are OBL, FACW, or FAC:(A)
2. Price outon m	10	V	PAL	
3. Limitdembone Glame i flow	50	Y	PAC	Total Number of Dominant
	- 		1/24	Species Across All Strata: (B)
4. DELINIA ALVOR	10		THU	Detect of Deminent Charles
5				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
				THAT ALE OBE, PACTY, OF PAC.
6				Prevalence Index worksheet:
7				1
8				Total % Cover of: Multiply by:
	120	= Total Co		OBL species x 1 =
.ر ن ئ	<u> </u>		, t	FACW species x 2 =
50% of total cover: <u>40</u>	20% of	total cove	r: [
Sapling/Shrub Stratum (Plot size: 200 VD)				FAC species x 3 =
1. Limi som him etingrifte	110	V	TAN	FACU species x 4 =
1. LIMITAGEN VINE ESTIMATIVA	- 111		Y OL	UPL species x 5 =
2. Arxlin spiriosi	5_		YPC	
3		•		Column Totals: (A) (B)
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6.				
				Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8.				3 - Prevalence Index is ≤3.0
	15	= Total Co		I
m ₁				Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	3 20% of	f total cove	r: <u>سب</u>	
Herb Stratum (Plot size: 30,830)				¹ Indicators of hydric soil and wetland hydrology must
A Dia La la con la constanta de la constanta d	Ser.	1	PACL	be present, unless disturbed or problematic.
1. Phytolaga american	- - 27			1
2. Whitehall man remarks	YOU	<u>y</u>	FAC	Definitions of Four Vegetation Strata:
3.	-			
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4	- ——			more in diameter at breast height (DBH), regardless of
5				height.
6				Carling/Chrub Mondy plants evaluding vines loss
	- —			Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
,				'
i				Herb - All herbaceous (non-woody) plants, regardless
8				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
8 9				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
8				of size, and woody plants less than 3.28 ft tall.
8 9				
8				of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
8				of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
8	85	= Total Co	DVEF	of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
8	85	= Total Co	DVEF	of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
8	85	= Total Co	DVEF	of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
8	<u>85</u> 20% o	= Total Co	over 7	of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
8	85	= Total Co	DVEF	of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
8	<u>85</u> 20% o	= Total Co	over 7	of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
8	<u>85</u> ≤ 20% o	= Total Co	over 7	of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
8	<u>85</u> ≤ 20% o	= Total Co	over 7	of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
8	<u>8</u> € <u>\$</u> 20% o	= Total Co	over 7	of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
8	<u>8</u> € <u>\$</u> 20% o	= Total Co	over 7	of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height.
8	85 20% o	= Total Co	over er: 17	of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic
8	85 5 20% o	= Total Cove	Prc	of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic
8	85 5 20% o	= Total Co	Prc	of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic
8	85 20% o	= Total Cove	Prc	of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic
8	85 20% o	= Total Cove	Prc	of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic
8	85 20% o	= Total Cove	Prc	of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic
8	85 20% o	= Total Cove	Prc	of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic
8	85 20% o	= Total Cove	Prc	of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic
8	85 20% o	= Total Cove	Prc	of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic
8	85 20% o	= Total Cove	Prc	of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic
8	85 20% o	= Total Cove	Prc	of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic
8	85 20% o	= Total Cove	Prc	of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic

501L		4 41 1 .	40		· · · - ·			- 6''	T OIII.
		to the dep	th needed to docum			or confirm	tne absence	of indicators.)	
Depth (inches)	Matrix Color (moist)	%	Color (moist)	<u>x Feature</u> %	S Type ¹	Loc ²	Texture	Per	narks
D-5	107R 3/2	100	Color (moist)				5L		idika
\ \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2}	* * * * * * * * * * * * * * * * * * * *		- 2 1010						
5-1/2	1046-1/3	98	1045 18	<u> </u>		\overline{N}	_56_		
N-10	2.54 5 10	90	10-12-518	10	_ (_	<u> </u>	esch		
									•
		·		-					
									
			=Reduced Matrix, MS			ains.		PL=Pore Lining, M	
Hydric Soil	ndicators: (Applic	able to all	LRRs, unless other					for Problematic H	lydric Soils ³ :
☐ Histosol			Polyvalue Be					luck (A9) (LRR O)	
	pipedon (A2)		Thin Dark Su	-		-		luck (A10) (LRR S)	
Black Hi			Loamy Mucky	-		. O)			tside MLRA 150A,B)
	n Sulfide (A4) I Layers (A5)		Loamy Gleye Depleted Mat		(FZ)			ont Flooopiain Soils Ious Bright Loamy	S (F19) (LRR P, S, T)
	Bodies (A6) (LRR P	TIIN	Redox Dark S	, ,	F6)			RA 153B)	30lis (i 20)
	cky Mineral (A7) (LF				•		1 1 '	arent Material (TF2)
	esence (A8) (LRR U		Redox Depre					hallow Dark Surfac	
_	ick (A9) (LRR P, T)		Marl (F10) (L	RR U)	•			Explain in Remark	
· ·	d Below Dark Surfac	e (A11)	Depleted Ocl						
· =	ark Surface (A12)		Iron-Mangan				•	ators of hydrophyti	-
	rairie Redox (A16) (N				-	, U)		land hydrology mu	•
. ==	lucky Mineral (S1) (I	LRR O, S)	Delta Ochric			OA 450D)		ess disturbed or pro	oblematic.
	Bleyed Matrix (S4) Redox (S5)		Reduced Ver						
	Matrix (S6)						RA 149A, 153C,	. 153D)	
	rface (S7) (LRR P, S	S, T, U)			,	, (,,	
	Layer (if observed):								
Type:									
Depth (in	ches):						Hydric Soil	Present? Yes_	No_ <u>//</u>
Remarks:							1 -		
									·

Environmental Field Surveys Wetland Photo Page



Upland data point wwio013_u facing north.

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region City/County: Wilson Project/Site: State: NC Sampling Point: WWIP 001 F-W Applicant/Owner: Downing Investigator(s): ESI (L Roper) Section, Township, Range: NA Landform (hillslope, terrace, etc.): Local relief (concave, convex, none): (on (ave Slope (%): U-4 ___ Long: _ -7号 、ひなの1 Subregion (LRR or MLRA): _____ Soil Map Unit Name: _ Kolns NWI classification: Are climatic / hydrologic conditions on the site typical for this time of year? Yes _ No _____ (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes ____ No _ Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Aquatic Fauna (B13) Surface Water (A1) High Water Table (A2) Marl Deposits (B15) (LRR U) Drainage Patterns (B10) Hydrogen Sulfide Odor (C1) Moss Trim Lines (B16) Saturation (A3) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Sediment Deposits (B2) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Thin Muck Surface (C7) Geomorphic Position (D2) ■ Algal Mat or Crust (B4) Other (Explain in Remarks) Shallow Aguitard (D3) Iron Deposits (B5) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Sphagnum moss (D8) (LRR T, U) Water-Stained Leaves (B9) Field Observations: Depth (inches): Surface Water Present? Depth (inches): Water Table Present? Wetland Hydrology Present? Yes v No Depth (inches): Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

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

20 23	Absolute			Dominance Test worksheet:
Tree Stratum (Plot size: 30 +30)		Species?		Number of Dominant Species
1. Pinus taeda	<u>30</u>	<u></u>	FAL	That Are OBL, FACW, or FAC:(A)
2. Livesidamber styraufloa 3. Liv. odendrin telepitera	_20_	<u>y</u>	<u>1996</u>	Total Number of Deminant
3. L. w. odendom tellipiters	20	Y	PHLL	Total Number of Dominant Species Across All Strata: (B)
4	-			(2)
5				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
				That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8				
	<u> 70</u>	= Total Cov	er .	OBL species x 1 =
50% of total cover: <u>3</u> \$	20% of	f total cover	: <u>14</u>	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 36x30)				FAC species x 3 =
1. Aur nibam	30	Y	FAC	FACU species x 4 =
			FACW	UPL species x 5 =
2. Magnotia virgintaria			FFLOO	Column Totals: (A) (B)
3.				(5)
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6.				amin_
				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8		· ——		☐ 3 - Prevalence Index is ≤3.01
		= Total Co		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: <u>2-2</u>	ه 20% <u>ک .</u>	f total cove	:_9	
Herb Stratum (Plot size: 30 x30				I fordingly as of burden and and southern burden access on
1. Woodnardia a resolater	30	Y	FACW	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
A colored by a local colored	15		FAC	
2. Aralia spinosa		- ——		Definitions of Four Vegetation Strata:
3				Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
				Control of the state of the sta
6				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7				than 3 in. DDi rand greater than 3.20 it (1 in) tail.
8		<u> </u>		Herb - All herbaceous (non-woody) plants, regardless
9	_			of size, and woody plants less than 3.28 ft tall.
10				Mendusine Allumedusines prester than 2.20 ft in
11.				Woody vine – All woody vines greater than 3.28 ft in height.
12.				Tolgia.
12	/10			1
	792	_ = Total Co	_	
50% of total cover: 22	، 20% <u>کځ</u>	of total cove	r: <u> </u>	
Woody Vine Stratum (Plot size: 30 x 30)				
1. Vitis votudifora	30	Y	FAC	
2				
<u></u>				
3				
4				
5				Hydrophytic
	30	_ = Total C	over	Vegetation /
50% of total cover:\S		of total cove		Present? Yes No
<u></u>		OI LOLGI COVE	i	
Remarks: (If observed, list morphological adaptations be	low).			
·				;

Profile Desc	ription: (Describe to the dept		the absence of indicators.)
Depth	Matrix	Redox Features	
(inches)	Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture Remarks
0-4	1078 21) 100		<u>SL.</u>
4-15	7578 3/1 100		SL
15-20	7.5 YR 4/2 100		Fine Gand
1200	10 1. 110 100		10025
¹Type: C=C	annontration DeDoniction RM-	Reduced Matrix, MS=Masked Sand Grains.	21 accions DI - Doro Lining Manharity
		LRRs, unless otherwise noted.)	² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils ³ :
Histosol	• • •	<u> </u>	
	pipedon (A2)	Polyvalue Below Surface (S8) (LRR S, T, U Thin Dark Surface (S9) (LRR S, T, U)	
	stic (A3)	Loamy Mucky Mineral (F1) (LRR O)	2 cm Muck (A10) (LRR S) Reduced Vertic (F18) (outside MLRA 150A,B)
_	en Sulfide (A4)	Loamy Gleyed Matrix (F2)	Piedmont Floodplain Soils (F19) (LRR P, S, T)
	Layers (A5)	Depleted Matrix (F3)	Anomalous Bright Loamy Soils (F20)
	Bodies (A6) (LRR P, T, U)	Redox Dark Surface (F6)	(MLRA 153B)
	icky Mineral (A7) (LRR P, T, U)		Red Parent Material (TF2)
	esence (A8) (LRR U)	Redox Depressions (F8)	Very Shallow Dark Surface (TF12)
	ick (A9) (LRR P, T)	Marl (F10) (LRR U)	Other (Explain in Remarks)
Depleted	d Below Dark Surface (A11)	Depleted Ochric (F11) (MLRA 151)	
Thick Da	ark Surface (A12)	Iron-Manganese Masses (F12) (LRR O, P,	T) ³ Indicators of hydrophytic vegetation and
		A) Kumbric Surface (F13) (LRR P, T, U)	wetland hydrology must be present,
	Mucky Mineral (S1) (LRR O, S)	Delta Ochric (F17) (MLRA 151)	unless disturbed or problematic.
	Gleyed Matrix (S4)	Reduced Vertic (F18) (MLRA 150A, 150B)	
	Redox (S5)	Piedmont Floodplain Soils (F19) (MLRA 14	=
	Matrix (S6)	Anomalous Bright Loamy Soils (F20) (MLR	(A 149A, 153C, 153D)
	rface (S7) (LRR P, S, T, U)		
Restrictive	Layer (if observed):		,
Restrictive	Layer (if observed):		Hydric Soil Present? Yes No
Restrictive	Layer (if observed):		Hydric Soil Present? Yes No
Restrictive Type: Depth (in	Layer (if observed):		Hydric Soil Present? Yes No
Restrictive Type: Depth (in	Layer (if observed):	<u> </u>	Hydric Soil Present? Yes No
Restrictive Type: Depth (in	Layer (if observed):		Hydric Soil Present? Yes No
Restrictive Type: Depth (in	Layer (if observed):		Hydric Soil Present? Yes No
Restrictive Type: Depth (in	Layer (if observed):		Hydric Soil Present? Yes No
Restrictive Type: Depth (in	Layer (if observed):		Hydric Soil Present? Yes No
Restrictive Type: Depth (in	Layer (if observed):		Hydric Soil Present? Yes No
Restrictive Type: Depth (in	Layer (if observed):		Hydric Soil Present? Yes No
Restrictive Type: Depth (in	Layer (if observed):		Hydric Soil Present? Yes No
Restrictive Type: Depth (in	Layer (if observed):		Hydric Soil Present? Yes No
Restrictive Type: Depth (in	Layer (if observed):		Hydric Soil Present? Yes No
Restrictive Type: Depth (in	Layer (if observed):		Hydric Soil Present? Yes No
Restrictive Type: Depth (in	Layer (if observed):		Hydric Soil Present? Yes No
Restrictive Type: Depth (in	Layer (if observed):		Hydric Soil Present? Yes No
Restrictive Type: Depth (in	Layer (if observed):		Hydric Soil Present? Yes No
Restrictive Type: Depth (in	Layer (if observed):		Hydric Soil Present? Yes No No
Restrictive Type: Depth (in	Layer (if observed):		Hydric Soil Present? Yes No No
Restrictive Type: Depth (in	Layer (if observed):		Hydric Soil Present? Yes No No
Restrictive Type: Depth (in	Layer (if observed):		Hydric Soil Present? Yes No
Restrictive Type: Depth (in	Layer (if observed):		Hydric Soil Present? Yes No
Restrictive Type: Depth (in	Layer (if observed):		Hydric Soil Present? Yes No
Restrictive Type: Depth (in	Layer (if observed):		Hydric Soil Present? Yes No
Restrictive Type: Depth (in	Layer (if observed):		Hydric Soil Present? Yes No
Restrictive Type: Depth (in	Layer (if observed):		Hydric Soil Present? Yes No

Environmental Field Surveys Wetland Photo Page



Wetland data point wwip001f_w facing southwest.

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: A.C.P	ity/County: Wilson Sampling Date: 7/7/14
Applicant/Owner: Dom in ion	State: NL Sampling Point: Wwip 001-
Investigator(s): E51 (L. Roper) s	• •
	ocal relief (concave, convex, none): Loncove Slope (%): D-LI
	7135 Long: -78,0900 Datum: W6584
. .	= 1 · · · · · · · · · · · · · · · · · ·
Soil Map Unit Name: <u>Fains</u> sandy loam	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of year	
Are Vegetation, Soil, or Hydrology significantly d	
Are Vegetation, Soil, or Hydrology naturally prob	elematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing	sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	
	Is the Sampled Area within a Wetland? Yes No
Hydric Soil Present? Wetland Hydrology Present? Yes No	within a Wetland? Yes No
Remarks:	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	∐ Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B13	
High Water Table (A2) Saturation (A3) Hydrogen Sulfide O	
	eres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Reduce	——————————————————————————————————————
	ion in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface	(C7) Geomorphic Position (D2)
Iron Deposits (B5)	, -
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
☐ Water-Stained Leaves (B9) Field Observations:	☐ Sphagnum moss (D8) (LRR T, U)
Surface Water Present? Yes No Depth (inches)	. NA
Water Table Present? Yes No Depth (inches)	720
Saturation Present? Yes No Depth (inches)	>20 Wetland Hydrology Present? Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photo	
Describe Necolded Data (Stream gauge, monitoring well, aerial photo	a, previous mapecuonsy, mavanable.
Remarks:	

TECETITION (Four Gradu)	Absolute	Dominant	Indicator	Dominance Test worksheet:	-
Tree Stratum (Plot size: 30 x 30)		Species?			
1. Liquidamber styruiflua	30	7	FAE	Number of Dominant Species That Are OBL, FACW, or FAC: (A)	İ
2. Pinus toreda	30	7	PAC		
3.				Total Number of Dominant Q Species Across All Strata: (B)	
4				Openies Auross Aurottata.	
				Percent of Dominant Species 89	
5				That Are OBL, FACW, or FAC: (A/B)	<i>!</i>
6				Prevalence Index worksheet:	-
7				Total % Cover of:Multiply by:	
8				OBL species x1=	
		= Total Co			
50% of total cover:	<u>O</u> 20% o	f total cove	r: <u> Z </u>	FACW species x 2 =	
Sapling/Shrub Stratum (Plot size: 30 x30)				FAC species x3 =	- 1
1. Prer ribin	30	4	FAL	FACU species x4 =	ŀ
2 Ilex opara	_ رح	N	FACU	UPL species x 5 =	ļ
3. I souidamber styraciflus	- 1 <u>5</u>	· - \	FAC	Column Totals: (A) (B)	
3. Ismitanny SNACH (MS		· -{/-	FACE		-
4. Vaccinium corymbosum	_ 10		1 nac	Prevalence Index = B/A =	
5				Hydrophytic Vegetation Indicators:	\neg
6				Rapid Test for Hydrophytic Vegetation	- 1
7				2 - Dominance Test is >50%	- 1
8.				3 - Prevalence Index is ≤3.0¹	- 1
0.	57)	= Total Co	nver		
50% of total cover:				Problematic Hydrophytic Vegetation ¹ (Explain)	- 1
	<u>-5</u> 20% 0	of total cove	er: <u>1 </u>		ļ
Herb Stratum (Plot size: 30 430	. ~		~ ~	¹ Indicators of hydric soil and wetland hydrology must	1
1. Avalia Spinosa	<u> </u>	<u> </u>	<u> FAC</u>	be present, unless disturbed or problematic.	- 1
2. Pteridium aquilinum	10	<u> </u>	<u> FALU</u>	Definitions of Four Vegetation Strata:	\neg
3				To the decimal control of the Company of the Compan	
4.				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of more in diameter at breast height (DBH), regardless of	
				height.	"
5					- 1
6				Sapling/Shrub – Woody plants, excluding vines, less	,
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.	- 1
8				Herb - All herbaceous (non-woody) plants, regardles:	s
9				of size, and woody plants less than 3.28 ft tall.	-
10				Woody vine - All woody vines greater than 3.28 ft in	
11.				height.	- 1
				110.911.	
12	70	_ = Total C			
					l
50% of total cover: 1	20%	of total cov	er:		ŀ
Woody Vine Stratum (Plot size: 30 130)	_		~~ ^ /		
1. Visis votencitoria	<u> </u>	<u> </u>	<u> </u>	.	ļ
2. Smilax votenditolia	10	. Y_	FAC		
3.					
1.				•	
4		_		-	
5				- Hydrophytic	
	<u> 35</u>	_ = Total (Vegetation Present? Yes No No No	
50% of total cover:	115 20%	of total cov	ver:/	- resence les_ no	
Remarks: (If observed, list morphological adaptations to	below).				
,,,,,,,,,,,,,,	•				

	Matrix Color (moist)		Redox F Color (moist)	Features Loc ²	Texture Remarks
nches)			Joior (moist)	76 TVDE LOC	
0-12	101/3/1	<u> 100 _ </u>			<u> </u>
<u> 2- 20</u>	75786/1	100		 	Fine Sand
_					
					
·					
		 			
me: C=C	ncentration D=De	nletion DM=De	duced Matrix MS=	Masked Sand Grains.	² Location: PL=Pore Lining, M=Matrix.
	ndicators: (Applic				Indicators for Problematic Hydric Soils ³ :
Histosol		Г		w Surface (S8) (LRR S, T, U	F
ſ	oipedon (A2)	ŧ	_	ace (S9) (LRR S, T, U)	2 cm Muck (A10) (LRR S)
Black Hi		†		Mineral (F1) (LRR O)	Reduced Vertic (F18) (outside MLRA 150A)
	n Sulfide (A4)	ŧ	Loamy Gleyed		Piedmont Floodplain Soils (F19) (LRR P, S,
	Layers (A5)	Ť	Depleted Matri		Anomalous Bright Loamy Soils (F20)
	Bodies (A6) (LRR F	P. T. U) T	Redox Dark Su		(MLRA 153B)
	icky Mineral (A7) (L		Depleted Dark	, , ,	Red Parent Material (TF2)
	esence (A8) (LRR I		Redox Depress		Very Shallow Dark Surface (TF12)
	ck (A9) (LRR P, T)	· -	Marl (F10) (LR		Other (Explain in Remarks)
	i Below Dark Surfac		Depleted Ochri	ic (F11) (MLRA 151)	
	ark Surface (A12)	1	Iron-Manganes	e Masses (F12) (LRR O, P,	T) Indicators of hydrophytic vegetation and
Coast P	rairie Redox (A16) ((MLRA 150A) 🛚	Umbric Surface	e (F13) (LRR P, T, U)	wetland hydrology must be present,
Sandy M	lucky Mineral (S1) ((LRR O, S)	🔲 Delta Ochric (F	17) (MLRA 151)	unless disturbed or problematic.
Sandy G	leyed Matrix (S4)	<u>[</u>		c (F18) (MLRA 150A, 150B)	
Sandy F	tedox (S5)	ļ	Piedmont Floo	dplain Soils (F19) (MLRA 14	49A)
	Matrix (S6)		Anomalous Bri	ght Loamy Soils (F20) (MLR	RA 149A, 153C, 153D)
	rface (S7) (LRR P,				
strictive	Layer (if observed):			
Type:			_		
Depth (in	ches):		_		Hydric Soil Present? Yes No
marks:					
				,	
				,	
				,	
				,	
				,	

Environmental Field Surveys Wetland Photo Page



Upland data point wwip001_u facing northeast.

Project/Site: Atlantic Coast Pipeline	City/County: Wilson	Sampling Date: 2/9/2015
Applicant/Owner: DOMINION		State: NC Sampling Point: wwic002f_w
	Section, Township, Range: No	
	Local relief (concave, convex, no	
Subregion (LRR or MLRA): P	Lat: 35.7066573 Long: -78.	.0976799 Datum: WGS 1984
Soil Map Unit Name: Bibb loam		NWI classification: None
	oical for this time of year? Yes No	
		al Circumstances" present? Yes No
	y naturally problematic? (If needed,	
		ons, transects, important features, etc.
Hydrophytic Vogototion Propert2	₩ No.	· ·
	No Is the Sampled Area	
	v No within a Wetland?	Yes No
Remarks:		
HYDROLOGY		
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required		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) Water Marks (B1)	Oxidized Rhizospheres on Living Roots (C3)Presence of Reduced Iron (C4)	Moss Trim Lines (B16) Dry-Season Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reduction in Tilled Soils (C6)	Crayfish Burrows (C8)
Occurrent Deposits (B2)	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)	<u> </u>	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:		
	Depth (inches): 6	
	Depth (inches):	
Saturation Present? Yes V	Depth (inches): 0 Wetland I	Hydrology Present? Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge, moni	pring well, aerial photos, previous inspections), if ava	ailable:
(3 3 7		
Remarks:		
Wetland hydrology present		

EGETATION (Four Strata) – Use scientific na	ames of	plants.		Sampling Point: wwic002f_w
	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:30) 1 Acer rubrum	% Cover 40	Species? Yes	Status FAC	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2. Liquidambar styraciflua	10	Yes	FAC	
3				Total Number of Dominant Species Across All Strata: 4 (B)
4				
5				Percent of Dominant Species That Are ORL FACW or FAC: 100 (A/R)
0				That Are OBL, FACW, or FAC:(A/B)
				Prevalence Index worksheet:
7	50	= Total Cove		Total % Cover of: Multiply by:
50% of total cover: 25		total cover:	10	OBL species0 x 1 =0
Sapling/Shrub Stratum (Plot size: 15)	2070 01	total oover.		FACW species35
1 Magnolia virginiana	15	Yes	FACW	FAC species 50 x 3 = 150
·· <u>·</u>		. ——		FACU species 0 x 4 = 0
2		· · · · · · · · · · · · · · · · · · ·		UPL species
3				Column Totals: 85 (A) 220 (B)
4		· 		(5)
5				Prevalence Index = B/A = 2.58
6		·		Hydrophytic Vegetation Indicators:
7		· 		1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9		. <u></u>		3 - Prevalence Index is ≤3.0 ¹
		= Total Cove		4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover: 7.5	20% of	total cover:	3	data in Remarks or on a separate sheet)
Herb Stratum (Plot size:)				Problematic Hydrophytic Vegetation¹ (Explain)
1. Arundinaria gigantea	20	Yes	FACW	1 Toblematic Trydrophytic vegetation (Explain)
2				Indicators of hydric soil and watland hydrology must
3		<u> </u>		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				Johnson on roun regeration on and
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
7				more in diameter at breast height (DBH), regardless of height.
8.				
9.				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
10.				m) tall.
11				
	20	= Total Cove		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 10		total cover:		
Woody Vine Stratum (Plot size: 30)		-		Woody vine – All woody vines greater than 3.28 ft in height.
1				neight.
2.				
3				
4				
5.				Hydrophytic
J	0	Tatal Caus		Vegetation Present? Yes No
50% of total cover:		= Total Cover:	^	
Remarks: (Include photo numbers here or on a separate s		total cover.		
Remarks. (include prioto numbers here or on a separate s	neet.)			

Sampling Point: wwwic002f_w

Depth	cription: (Describe t Matrix	o tile de		x Feature		01 001111111	i tile absellet	or maioators.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-14	2.5 Y 5/1	92	2.5 Y 7/1	3	C	M	SCL	
			7.5 YR 5/8		C	PL/M	-	
			7.5 18 5/6			FL/IVI		· -
							-	-
							-	
			-					
		-						
				<u> </u>				
				·				
		-	-					
								· -
	Concentration, D=Depl	etion, RM	1=Reduced Matrix, MS	S=Masked	d Sand Gr	ains.		PL=Pore Lining, M=Matrix.
lydric Soil	Indicators:						Indic	cators for Problematic Hydric Soils ³ :
Histoso			Dark Surface					2 cm Muck (A10) (MLRA 147)
Histic E	pipedon (A2)		Polyvalue Be				148) (Coast Prairie Redox (A16)
Black H	listic (A3)		Thin Dark Su			147, 148)		(MLRA 147, 148)
Hydrog	en Sulfide (A4)		Loamy Gleye	ed Matrix ((F2)			Piedmont Floodplain Soils (F19)
Stratifie	d Layers (A5)		✓ Depleted Ma	trix (F3)				(MLRA 136, 147)
2 cm M	uck (A10) (LRR N)		Redox Dark	Surface (F	- 6)		\	Very Shallow Dark Surface (TF12)
Deplete	ed Below Dark Surface	(A11)	Depleted Dar	rk Surface	e (F7)		(Other (Explain in Remarks)
Thick D	ark Surface (A12)		Redox Depre	essions (F	8)			
Sandy I	Mucky Mineral (S1) (L	RR N,	Iron-Mangan	ese Mass	es (F12) ((LRR N,		
MLR	A 147, 148)		MLRA 13	6)				
Sandy (Gleyed Matrix (S4)		Umbric Surfa	ce (F13)	(MLRA 13	36, 122)	³ Inc	dicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	8) w	etland hydrology must be present,
	d Matrix (S6)		Red Parent N					nless disturbed or problematic.
	Layer (if observed):			`			1	· ·
Type:	, , ,							
							Unidada Cal	il Present? Yes No
Depth (in	icnes):						Hydric Soi	I Present? Yes No
Remarks:								
lydric soil pr	resent							



Photo 1
Wetland data point wwic002f_w facing east



Photo 2
Wetland data point wwic002f_w facing south

Project/Site: Atlantic Coast Pipeline		City/County: Wilson		Sampling Date: 2/9/2015
Applicant/Owner: DOMINION				Sampling Point: wwic002_u
		Section, Township, Range: No	PLSS in this area	
Landform (hillslope, terrace, etc.): Slight SI	ope Loc	cal relief (concave, convex, no	ne): none	Slope (%): 10
Subregion (LRR or MLRA): P				
Soil Map Unit Name: Bibb loam			NWI classifica	ation: None
Are climatic / hydrologic conditions on the s	site typical for this time of ve			
Are Vegetation, Soil, or Hyd				
Are Vegetation, Soil, or Hyd				
SUMMARY OF FINDINGS – Atta				
	<u> </u>		,	, p
	Yes No	Is the Sampled Area		
	Yes No	within a Wetland?	Yes	No
Wetland Hydrology Present? Remarks:	Yes No			
HYDROLOGY			0	to and the second to the second and
Wetland Hydrology Indicators:				tors (minimum of two required)
Primary Indicators (minimum of one is req		((D.4.4)	Surface Soil (
Surface Water (A1)	True Aquatic PI Hydrogen Sulfic			etated Concave Surface (B8)
High Water Table (A2) Saturation (A3)		spheres on Living Roots (C3)	Drainage Pat Moss Trim Lii	
Water Marks (B1)	Presence of Re			Nater Table (C2)
Sediment Deposits (B2)		duction in Tilled Soils (C6)	Crayfish Burn	
Drift Deposits (B3)	Thin Muck Surfa		· ·	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain i	n Remarks)	Stunted or St	ressed Plants (D1)
Iron Deposits (B5)			Geomorphic I	Position (D2)
Inundation Visible on Aerial Imagery ((B7)		Shallow Aquit	tard (D3)
Water-Stained Leaves (B9)				phic Relief (D4)
Aquatic Fauna (B13)			FAC-Neutral	Test (D5)
Field Observations:	No. V Double Contract			
	No Depth (inches)			
	No Depth (inches) No Depth (inches)		Hydrology Presen	42 Vaa Na V
(includes capillary fringe)	_ No _ • Depth (inches)	wetiand r	Tydrology Presen	t? Yes No
Describe Recorded Data (stream gauge, r	monitoring well, aerial photo	s, previous inspections), if ava	ailable:	
Remarks:				
No wetland hydrology				
, ,,				

Sampling Point: wwic002_u

	Absolute	Dominant I	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?	Status	Number of Dominant Species
1. Pinus taeda	30	Yes	FAC	That Are OBL, FACW, or FAC:5 (A)
2. Liquidambar styraciflua	25	Yes	FAC	
3. Quercus alba	5	No	FACU	Total Number of Dominant Species Across All Strata: 6 (B)
J				Species Across All Strata. (b)
4	-			Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 83.33333333 (A/B)
6				
7				Prevalence Index worksheet:
	60	= Total Cove	r	Total % Cover of: Multiply by:
50% of total cover: 30		total cover:	12	OBL species0 x 1 =0
Sapling/Shrub Stratum (Plot size: 15)				FACW species 25
1. Ilex opaca	10	Yes	FACU	FAC species 80 x 3 = 240
11				45
2. Magnolia virginiana	5	Yes	FACW	FACU species $\frac{15}{0}$ x 4 = $\frac{60}{0}$
3				UPL species x 5 =
4				Column Totals:(A)(B)
5				Prevalence Index = B/A =2.91
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9.				
0	15	= Total Cove		3 - Prevalence Index is ≤3.0 ¹
50% of total cover: 7.5	. ———	total cover:	3	4 - Morphological Adaptations ¹ (Provide supporting
	20% 01	total cover:_		data in Remarks or on a separate sheet)
Tierb Stratum (Flot size)	0.5			Problematic Hydrophytic Vegetation ¹ (Explain)
1. Lonicera japonica	25	Yes	FAC	1 Toblematio Tryarophytic Vegetation (Explain)
2. Arundinaria gigantea	20	Yes	FACW	4
3				¹ Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6				more in diameter at breast height (DBH), regardless of
7				height.
8				
9.				Sapling/Shrub – Woody plants, excluding vines, less
				than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
10				in ten.
11				Herb – All herbaceous (non-woody) plants, regardless
		= Total Cove		of size, and woody plants less than 3.28 ft tall.
50% of total cover: 22.	5 20% of	total cover:_	9	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 30)				height.
1				Holght.
2				
3	-			
4				Hydrophytic
5				Vegetation
		= Total Cove	r	Present? Yes No
50% of total cover: 0		total cover:_	^	
Remarks: (Include photo numbers here or on a separate s				
Remarks. (include photo numbers here or on a separate s	sneet.)			

Sampling Point: wwic002_u

Profile Des	cription: (Describe	to the depth	needed to document the indicator	r or confirm	the absence	of indicators.)
Depth	Matrix		Redox Features			
(inches) 0-10	Color (moist) 10 YR 3/2	100	Color (moist)	Loc ²	Texture SL	Remarks
10-16	2.5 YR 5/6	100			SL	
				_		
						
				_		
		letion, RM=R	Reduced Matrix, MS=Masked Sand C	Grains.		L=Pore Lining, M=Matrix.
Hydric Soil	Indicators:				Indica	ators for Problematic Hydric Soils ³ :
Histoso	l (A1)		Dark Surface (S7)			cm Muck (A10) (MLRA 147)
Histic E	pipedon (A2)		Polyvalue Below Surface (S8)	(MLRA 147, 1	48) C	coast Prairie Redox (A16)
Black H	istic (A3)		Thin Dark Surface (S9) (MLRA	147, 148)		(MLRA 147, 148)
Hydroge	en Sulfide (A4)		Loamy Gleyed Matrix (F2)		P	riedmont Floodplain Soils (F19)
Stratifie	d Layers (A5)		Depleted Matrix (F3)			(MLRA 136, 147)
2 cm M	uck (A10) (LRR N)		Redox Dark Surface (F6)		V	ery Shallow Dark Surface (TF12)
	d Below Dark Surface	e (A11)	Depleted Dark Surface (F7)			Other (Explain in Remarks)
	ark Surface (A12)	, ,	Redox Depressions (F8)			, ,
	Mucky Mineral (S1) (L	.RR N.	Iron-Manganese Masses (F12)	(LRR N.		
	A 147, 148)	,	MLRA 136)	(=::::,		
	Gleyed Matrix (S4)		Umbric Surface (F13) (MLRA	136 122)	3Ind	icators of hydrophytic vegetation and
	Redox (S5)		Piedmont Floodplain Soils (F1)			etland hydrology must be present,
-						
	d Matrix (S6) Layer (if observed):		Red Parent Material (F21) (ML	.KA 121, 141)	un	less disturbed or problematic.
	Layer (ii observed):					
Type:			<u>—</u>			
Depth (in	iches):		<u> </u>		Hydric Soil	Present? Yes No
Remarks:						
No hydric soi	l present					



Photo 1 Upland data point wwic002_u facing south



Photo 2 Upland data point wwic002_u facing west

Project/Site: Atlantic Coast Pipel	ine	City/0	County: Wilson		Sampling Date: 2/9/2015
Applicant/Owner: DOMINION				State: NC	Sampling Point: wwic001f_w
Investigator(s): Team C		Secti	on, Township, Range: No	PLSS in this area	1
Landform (hillslope, terrace, etc.)	Depression	Local re	lief (concave, convex, non	ie): concave	Slope (%): ⁵
Subregion (LRR or MLRA): P					
Soil Map Unit Name: Coxville sa	ndy loam			NWI classific	ation: None
Are climatic / hydrologic condition	ns on the site typ				
Are Vegetation, Soil	, or Hydrolog	y significantly distu	rbed? Are "Normal	Circumstances" p	resent? Yes No
Are Vegetation, Soil					
					, important features, etc.
Hydrophytic Vegetation Present	t2 Voc	✓ No			
Hydric Soil Present?	Yes	No	Is the Sampled Area	V V	M -
Wetland Hydrology Present?		No_	within a Wetland?	Yes	No
Remarks:			1		
HYDROLOGY					
Wetland Hydrology Indicators	\$:			Secondary Indica	tors (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 Veg	getated Concave Surface (B8)
High Water Table (A2)		Hydrogen Sulfide Oc	lor (C1)	Drainage Pat	tterns (B10)
Saturation (A3)		Oxidized Rhizospher	res on Living Roots (C3)	Moss Trim Li	nes (B16)
✓ Water Marks (B1)		Presence of Reduce	d Iron (C4)	Dry-Season \	Water Table (C2)
Sediment Deposits (B2)		Recent Iron Reduction	on in Tilled Soils (C6)	Crayfish Burr	rows (C8)
Drift Deposits (B3)		Thin Muck Surface (C7)	Saturation Vi	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Other (Explain in Re	marks)	Stunted or St	tressed Plants (D1)
Iron Deposits (B5)				Geomorphic	Position (D2)
Inundation Visible on Aeria	l Imagery (B7)			Shallow Aqui	tard (D3)
✓ Water-Stained Leaves (B9))			Microtopogra	phic Relief (D4)
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)
Field Observations:					
		Depth (inches):	6		
Water Table Present?	Yes No	Depth (inches):	0		
Saturation Present?		Depth (inches):	0 Wetland H	lydrology Presen	t? Yes <u>/</u> No
(includes capillary fringe) Describe Recorded Data (streat	m gauge monit	oring well aerial photos, pre	evious inspections) if avai	ilable:	
Doornoo Nooorada Data (otroal	ii gaago, iiioiiik	oring won, donar priotos, pri	ovious inspections, ii avai	idolo.	
Remarks:					
Wetland hydrology					

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

5 ___)

Sapling/Shrub Stratum (Plot size: 15)

Tree Stratum (Plot size:

4. Liquidambar styraciflua

Herb Stratum (Plot size: ___ 1. Smilax rotundifolia

Quercus nigra

2. Acer rubrum

3. Ilex opaca

1. Ilex opaca

ı) – Use scientific na	Absolute	Dominant	Indicator	Sampling Point: wwic001f_w Dominance Test worksheet:
)		Species? Yes		Number of Dominant Species That Are OBL, FACW, or FAC:3 (A)
	20	Yes	FAC	Total Number of Deminent
	15	Yes	FACU	Total Number of Dominant Species Across All Strata: 5 (B)
	5	No	FAC	Persont of Dominant Chasins
				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
				Prevalence Index worksheet:
	65	= Total Cove		Total % Cover of: Multiply by:
50% of total cover: 32.5		total cover:	40	OBL species0 x 1 =0
15				FACW species0 x 2 =0
	10	Yes	FACU	FAC species65
				FACU species 25 x 4 = 100
				UPL species
				Column Totals:90 (A)295 (B)
				Prevalence Index = B/A =3.27
	-			Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
		-		2 - Dominance Test is >50%
	10			3 - Prevalence Index is ≤3.0 ¹
50% of total cover: 5		= Total Cover:	2	4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover:5_	20% 01	iolai covei.		data in Remarks or on a separate sheet)
	15	Yes	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
				Definitions of Four Vegetation Strata:
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
				Herb – All herbaceous (non-woody) plants, regardless
_		= Total Cove	_	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 7.5 30	20% of	total cover:	3	Woody vine – All woody vines greater than 3.28 ft in height.
				Hydrophytic
_	0 :	= Total Cove		Vegetation Present? Yes No
50% of total cover:		total cover:	0	

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

Woody Vine Stratum (Plot size: ______)

Sampling Point: wwwic001f_w

	cription: (Describe t	o the de				or confirm	the absence	e of indicators.)
Depth	Matrix	0/	Redo:	x Feature		Loc ²	Touture	Domovico
(inches) 0-16	Color (moist) 10 YR 2/1	<u>%</u> 95	Color (moist) 10 YR 3/6	<u>%</u> 5	Type ¹ C	PL	<u>Texture</u> CL	Remarks
0 10	10 11(2/1							
		-	·		-	· ——		-
					-		-	
		-						
								-
								•
l - 0.0						·	2	
	Concentration, D=Depl Indicators:	etion, RM	1=Reduced Matrix, MS	S=Masked	d Sand Gr	ains.		PL=Pore Lining, M=Matrix. cators for Problematic Hydric Soils ³ :
-				(O-)				
Histoso			Dark Surface		(00) (1			2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be		. , .		148) (Coast Prairie Redox (A16)
	listic (A3)		Thin Dark Su			147, 148)		(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye		(F2)		'	Piedmont Floodplain Soils (F19)
	ed Layers (A5)		Depleted Mat		-c)		,	(MLRA 136, 147)
	uck (A10) (LRR N) ed Below Dark Surface	(//11)	Redox Dark S Published Dark S Published Dark S	,	,			Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
	ed Below Dark Surface Park Surface (A12)	: (A11)	Redox Depre				— '	Other (Explain in Remarks)
	Mucky Mineral (S1) (L	DD N	Iron-Mangan			I DD N		
	A 147, 148)	NN N,	MLRA 13		es (F12) (LKK N,		
	Gleyed Matrix (S4)		Umbric Surfa	•	(MI DA 13	RE 122\	3In	dicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					etland hydrology must be present,
	d Matrix (S6)		Red Parent N					nless disturbed or problematic.
	Layer (if observed):		Red r arent n	iateriai (i	Z1) (IVILIV	A 121, 171) ui	liess disturbed of problematic.
	Layer (ii observed).							
Type:								
Depth (ir	nches):						Hydric Soi	I Present? Yes No
Remarks:								
lydric soil pr	resent							



Photo 1
Wetland data point wwic001f_w facing east



Photo 2
Wetland data point wwic001f_w facing north

Project/Site: Atlantic Coast Pipeline	City/County: Wilson	Sampling Date: 2/9/2015
Applicant/Owner: DOMINION		State: NC Sampling Point: wwic001_u
	Section, Township, Range: N	o PLSS in this area
	Local relief (concave, convex, no	
Subregion (LRR or MLRA): P	Lat: 35.70369315 Long: -78	.09849604 Datum: WGS 1984
Soil Map Unit Name: Coxville sandy loam		NWI classification: None
	pical for this time of year? Yes No	(If no. explain in Remarks.)
	y significantly disturbed? Are "Norma	
	y naturally problematic? (If needed,	
		ons, transects, important features, etc.
	No V Is the Sampled Area	,
	No within a Wetland?	Yes No
Remarks:	No	
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)	
Water Marks (B1)	Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reduction in Tilled Soils (C6)	Crayfish Burrows (C8)
Drift Deposits (B3)	Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
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)Aquatic Fauna (B13)		Microtopographic Relief (D4) FAC-Neutral Test (D5)
Field Observations:		TAO Neutral Test (D5)
	Depth (inches):	
	✓ Depth (inches):	
		Hydrology Present? Yes No
(includes capillary fringe)	oring well, aerial photos, previous inspections), if av	oilabla
Describe Recorded Data (Stream gauge, monit	oning well, aerial priotos, previous inspections), il av	allable.
Remarks:		
No wetland hydrology present		

Sampling	Point: wwic001	_u
Sambiinu	Point. """	_~

•	Absolute	Dominant In	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size:)			Status	Number of Dominant Species
1. Pinus taeda	40	Yes	FAC	That Are OBL, FACW, or FAC:3 (A)
2. Ilex opaca	30	Yes	FACU	Total Number of Dominant
3. Quercus falcata	25	Yes	FACU	Species Across All Strata: 6 (B)
4				
5				Percent of Dominant Species That Are ORL EACW or EAC: 50 (A/R)
0				That Are OBL, FACW, or FAC: (A/B)
-				Prevalence Index worksheet:
<i>1</i>	95	T 0		Total % Cover of: Multiply by:
500% of total account 47.5		= Total Cove	r 19	OBL species0 x 1 =0
50% of total cover: 47.5	20% of	total cover:_		FACW species 5 x 2 = 10
Sapling/Shrub Stratum (Plot size:)	40	V	FACIL	45 125
1. Ilex opaca	10	Yes	FACU	FAC species 45 x 3 = 135 260
2. Magnolia virginiana	5	Yes	FACW	FACU species X 4 =
3				UPL species X 5 = 405
4				Column Totals:115 (A)405 (B)
5				3.52
6				Prevalence Index = B/A = 3.52
				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9	15			3 - Prevalence Index is ≤3.0 ¹
7.5		= Total Cove	r 3	4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover: 7.5	20% of	total cover:_		data in Remarks or on a separate sheet)
Herb Stratum (Plot size:5				Problematic Hydrophytic Vegetation ¹ (Explain)
1. Smilax rotundifolia	5	Yes	FAC	Problematic Hydrophytic Vegetation (Explain)
2				1
3				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4				
F				Definitions of Four Vegetation Strata:
5				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6				more in diameter at breast height (DBH), regardless of
7				height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless
	5	= Total Cove	r	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 2.5	20% of	total cover:	1	Was trades Allowed a circumstantian 0.00 (circ
Woody Vine Stratum (Plot size: 30)				Woody vine – All woody vines greater than 3.28 ft in height.
1				noight.
2				
3				
4				Hydrophytic
5				Vegetation
		= Total Cove	^	Present? Yes No
50% of total cover:0	20% of	total cover:_		
Remarks: (Include photo numbers here or on a separate sl	neet.)			

Sampling Point: wwic001_u

(inches)	Matrix			k Features					_	
0 40	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>		Remark	(S
0-12	2.5 Y 5/3	95	2.5 YR 5/6	5	C	PL	SL			
		-								
		-						-		
								-		
		etion, RM	I=Reduced Matrix, MS	S=Masked	Sand Gra	ins.	² Location: P			
lydric Soil I	Indicators:						Indic	ators for Pr	oblematic	Hydric Soils ³ :
Histosol	(A1)		Dark Surface	(S7)			2	cm Muck (A	410) (MLR	A 147)
Histic Ep	pipedon (A2)		Polyvalue Be	low Surfac	e (S8) (N	LRA 147,	148) C	oast Prairie	Redox (A1	16)
Black Hi	stic (A3)		Thin Dark Su	rface (S9)	(MLRA 1	47, 148)		(MLRA 14	7, 148)	
	n Sulfide (A4)		Loamy Gleye		⁻ 2)		P	iedmont Flo		ils (F19)
	d Layers (A5)		Depleted Mat	rix (F3)				(MLRA 13		
	ick (A10) (LRR N)		Redox Dark S	•				ery Shallow		
	d Below Dark Surface	e (A11)	Depleted Dar				c	ther (Expla	in in Remai	rks)
	ark Surface (A12)		Redox Depre							
	lucky Mineral (S1) (L	RR N,	Iron-Mangane		s (F12) (I	LRR N,				
	A 147, 148)		MLRA 130	•			3.			
	Gleyed Matrix (S4)		Umbric Surfa							vegetation and
	ledox (S5)		Piedmont Flo					etland hydro		
	Matrix (S6)		Red Parent N	faterial (F2	21) (ML R.	A 127, 147) un	less disturb	ed or proble	ematic.
	_ayer (if observed):									
Type:										
Depth (inc	ches):						Hydric Soil	Present?	Yes	No
Remarks:							l			
Ciliains.										
	present									
	present									
	present									
	present									
	present									
	present									
	present									
	present									
	present									
	present									
	present									
	present									
	present									
	present									
	present									
	present									
	present									
	present									
lo hydric soil	present									
	present									
	present									
	present									
	present									



Photo 1
Upland data point wwic001_u facing northwest



Photo 2
Upland data point wwic001_u facing west

Project/Site: Atlantic Coast Pipe	line	City/C	County: Wilson		Sampling Date: 2/9/2015
Applicant/Owner: DOMINION				State: NC	Sampling Point: wwic003f_w
Investigator(s): Team C		Section			
Landform (hillslope, terrace, etc.): Depression	Local rel	ief (concave, convex, nor	ne): concave	Slope (%): ⁵
Subregion (LRR or MLRA): P		Lat: 35.6979563	Long: -78.0	09869199	Datum: WGS 1984
Soil Map Unit Name: Tomotley f	ine sandy loam			NWI classific	ation: None
Are climatic / hydrologic conditio	ns on the site typ				
Are Vegetation, Soil	, or Hydrolog	y significantly distur	bed? Are "Normal	l Circumstances" p	resent? Yes No
Are Vegetation, Soil					
					, important features, etc.
Hydrophytic Vegetation Preser	nt? Yes	✓ No			
Hydric Soil Present?	Yes	✓ No	Is the Sampled Area within a Wetland?	Voc. V	No
Wetland Hydrology Present?		✓ No	within a wetland?	res	NO
HYDROLOGY					
Wetland Hydrology Indicator				·	tors (minimum of two required)
Primary Indicators (minimum o	fone is required;			Surface Soil	
Surface Water (A1)		True Aquatic Plants (getated Concave Surface (B8)
High Water Table (A2)		Hydrogen Sulfide Od		✓ Drainage Par	
Saturation (A3) Water Marks (B1)		 Oxidized Rhizospher Presence of Reduced 		Moss Trim Li	Nater Table (C2)
Sediment Deposits (B2)		Recent Iron Reduction	, ,	Crayfish Buri	
Drift Deposits (B3)		Thin Muck Surface (0		-	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Other (Explain in Rer			tressed Plants (D1)
Iron Deposits (B5)			,	Geomorphic	, ,
Inundation Visible on Aeria	ıl Imagery (B7)			Shallow Aqui	tard (D3)
Water-Stained Leaves (B9)				phic Relief (D4)
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)
Field Observations:			0		
Surface Water Present?		Depth (inches):	2 0		
Water Table Present?		Depth (inches):	0		
Saturation Present? (includes capillary fringe)	Yes No	Depth (inches):	Wetland F	Hydrology Presen	t? Yes V No
Describe Recorded Data (stream	ım gauge, monito	oring well, aerial photos, pre	vious inspections), if ava	nilable:	
Remarks: Wetland hydrology present					
Welland Hydrology present					

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

/EGETATION (Four Strata) – Use scientific na	ames of	plants.		Sampling Point: wwic003f_w
	Absolute	Dominant I	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size:) 1. Acer rubrum	% Cover 40	Species? Yes	Status FAC	Number of Dominant Species That Are OBL, FACW, or FAC:4 (A)
2. Ilex opaca	20	Yes	FACU	That Are OBE, I ACW, OIT AC (A)
3. Pinus taeda	15	No	FAC	Total Number of Dominant
4. Liquidambar styraciflua	10	No	FAC	Species Across All Strata: (B)
·				Percent of Dominant Species
5 6.		· ·		That Are OBL, FACW, or FAC: 66.6666666 (A/B)
7				Prevalence Index worksheet:
	85	= Total Cove		Total % Cover of: Multiply by:
50% of total cover: 42.5		f total cover:_	17	OBL species 0 x 1 = 0
15	20 /6 01	i lotal cover		FACW species 55 x 2 = 110
Sapling/Shrub Stratum (Plot size:) 1 llex opaca	30	Yes	FACU	FAC species 90 x 3 = 270
	20			50 200
2. Magnolia virginiana		Yes	FACW	0
3				UPL species
4				Column Totals: (A) (B)
5				Prevalence Index = B/A =2.97
6				1 Tevalence maex = B/TT =
7				Hydrophytic Vegetation Indicators:
8.				1 - Rapid Test for Hydrophytic Vegetation
9.	-			2 - Dominance Test is >50%
9	50	Tatal Caus		✓ 3 - Prevalence Index is ≤3.0 ¹
50% of total cover: 25		= Total Cove f total cover:_	10	4 - Morphological Adaptations ¹ (Provide supporting
50 % of total cover:	20 /6 01	i lotal cover		data in Remarks or on a separate sheet)
Herb Stratum (Plot size:) 1 Arundinaria gigantea	35	Voo	EACW/	Problematic Hydrophytic Vegetation ¹ (Explain)
·-	25	Yes	FACW	
2. Lonicera japonica		Yes	FAC	¹ Indicators of hydric soil and wetland hydrology must
3				be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
7.				more in diameter at breast height (DBH), regardless of height.
8				
9.				Sapling/Shrub – Woody plants, excluding vines, less
				than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
10				Tily tail.
11	60	·		Herb - All herbaceous (non-woody) plants, regardless
50% of total cover: 30		= Total Cove		of size, and woody plants less than 3.28 ft tall.
0070 01 total 00001.	20% of	f total cover:_	12	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size:)				height.
1				
2				
3				
4				Underskie
5				Hydrophytic Vegetation
·	0	= Total Cove		Present? Yes No
50% of total cover: 0		f total cover:_	^	
		10101 00101		
Remarks: (Include photo numbers here or on a separate s	neet.)			

Sampling Point: wwwic003f_w

Depth							the absenc	,
(inches)	Matrix Color (moist)	%	Color (moist)	x Feature %	s <u>Type¹</u>	Loc ²	Texture	Remarks
0-8	10 YR 4/2	95	10 YR 3/6	- <u>70</u> 5	C	PL	SCL	Kemana
0.16			10 VD 2/6					. .
8-16	10 YR 4/2	85	10 YR 3/6	5		PL	SCL	<u> </u>
			2.5 Y 5/1	10	D	M		
		-						-
								_
		•			•			-
Type: C=C	Concentration, D=Dep	letion RM	1-Reduced Matrix M	S-Masker	Sand Gr	ains	² Location: I	PL=Pore Lining, M=Matrix.
	Indicators:	iction, reiv	i=rcaacca matrix, in	O-Masket	J Garia Gr	AII 10.		cators for Problematic Hydric Soils ³ :
Histoso			Dark Surface	2 (97)				2 cm Muck (A10) (MLRA 147)
	Epipedon (A2)		Polyvalue Be		ce (S8) /N	II RA 1 <i>1</i> 7		Coast Prairie Redox (A16)
	listic (A3)		Polyvalue Be				0/	(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye			-1, 1 4 0)		Piedmont Floodplain Soils (F19)
	ed Layers (A5)		✓ Depleted Ma		(1 2)			(MLRA 136, 147)
	luck (A10) (LRR N)		Redox Dark		- 6)			Very Shallow Dark Surface (TF12)
	ed Below Dark Surface	e (A11)	Depleted Da		,			Other (Explain in Remarks)
	Oark Surface (A12)	. (,)	Redox Depre					• (=,p.a teae,
	Mucky Mineral (S1) (L	.RR N.	Iron-Mangan			LRR N.		
	A 147, 148)	,	MLRA 13		00 (i i=) (
	Gleyed Matrix (S4)		Umbric Surfa	-	(MLRA 13	6. 122)	³ In	dicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					vetland hydrology must be present,
	d Matrix (S6)		Red Parent I					nless disturbed or problematic.
	Layer (if observed):		<u> </u>				1	, , , , , , , , , , , , , , , , , , ,
Type:							Usalaia Ca	il Draggard? Vag V Na
Type: Depth (ir							Hydric So	il Present? Yes No
Type: Depth (ir Remarks:	nches):						Hydric So	il Present? Yes No
Type: Depth (ir Remarks:	nches):						Hydric So	il Present? Yes No
Type: Depth (ir Remarks:	nches):						Hydric So	il Present? Yes <u>V</u> No
Type: Depth (ir Remarks:	nches):						Hydric So	il Present? Yes <u>V</u> No
Type: Depth (ir Remarks:	nches):						Hydric So	il Present? Yes <u>V</u> No
Type: Depth (ir Remarks:	nches):						Hydric So	il Present? Yes <u>V</u> No
Type: Depth (ir Remarks:	nches):						Hydric So	il Present? Yes <u>V</u> No <u> </u>
Type: Depth (ir Remarks:	nches):						Hydric So	il Present? Yes <u>V</u> No <u> </u>
Type: Depth (ir Remarks:	nches):						Hydric So	il Present? Yes <u>V</u> No
Type: Depth (ir Remarks:	nches):						Hydric So	il Present? Yes <u>V</u> No
Type: Depth (ir Remarks:	nches):						Hydric So	il Present? Yes <u>V</u> No
Type: Depth (ir Remarks:	nches):						Hydric So	il Present? Yes <u>V</u> No
Type: Depth (ir Remarks:	nches):						Hydric So	il Present? Yes <u>V</u> No
Type: Depth (ir Remarks:	nches):						Hydric So	il Present? Yes <u>V</u> No
Type: Depth (ir Remarks:	nches):						Hydric So	il Present? Yes V No
Type: Depth (ir Remarks:	nches):						Hydric So	il Present? Yes V No
Type: Depth (ir Remarks:	nches):						Hydric So	il Present? Yes V No
Type: Depth (ir Remarks:	nches):						Hydric So	il Present? Yes V No
Type:	nches):						Hydric So	il Present? Yes V No
Type: Depth (ir Remarks:	nches):						Hydric So	il Present? Yes V No
Type: Depth (ir Remarks:	nches):						Hydric So	il Present? Yes V No
Type: Depth (ir Remarks:	nches):						Hydric So	il Present? Yes V No
Type: Depth (ir Remarks:	nches):						Hydric So	il Present? Yes V No
Type: Depth (ir Remarks:	nches):						Hydric So	il Present? Yes V No



Photo 1
Wetland data point wwic003f_w facing west



Photo 2Wetland data point wwic003f_w facing southeast

Project/Site: Atlantic Coast Pipeline	City/County: Wilson	Sampling Date: 2/9/2015
Applicant/Owner: DOMINION		State: NC Sampling Point: wwic003_u
	Section, Township, Range: N	No PLSS in this area
	Local relief (concave, convex, n	
Subregion (LRR or MLRA): P		
Soil Map Unit Name: Tomotley fine sandy loam		NWI classification: None
Are climatic / hydrologic conditions on the site typica		
		al Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology _		
		ions, transects, important features, etc.
	No V Is the Sampled Area	
	No within a Wetland?	Yes No
Wetland Hydrology Present? Yes Remarks:	NO	
HYDROLOGY		
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; ch	neck 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 Soils (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) Inundation Visible on Aerial Imagery (B7)		Geomorphic Position (D2) Shallow Aquitard (D3)
Water-Stained Leaves (B9)		Microtopographic Relief (D4)
Aquatic Fauna (B13)		FAC-Neutral Test (D5)
Field Observations:		
	Depth (inches):	
	Depth (inches):	
Saturation Present? Yes No		Hydrology Present? Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring)	og well, aerial photos, previous inspections), if a	vailable:
Describe Nesoraea Data (stream gaage, monitorii	ig well, derial priotos, proviodo inspectiono,, il de	randole.
Remarks:		
No wetland hydrology		

Sampling Point wwicoos_c	Sampling	Point: wwic003_	_u
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•	Absolute	Dominant In	dicator	Dominance Test worksheet:
Tree Stratum (Plot size:)			Status	Number of Dominant Species
1. llex opaca	35	Yes	FACU	That Are OBL, FACW, or FAC:3 (A)
2. Quercus falcata	20	Yes	FACU	Total Number of Deminent
3. Quercus nigra	15	Yes	FAC	Total Number of Dominant Species Across All Strata: 7 (B)
4				CPOSICO 7 III CII dida.
· ·				Percent of Dominant Species That Are ORL FACW or FAC: 42.85714285 (A/R)
5				That Are OBL, FACW, or FAC: 42.85/14285 (A/B)
6				Prevalence Index worksheet:
7	70			Total % Cover of: Multiply by:
25	:	= Total Cover	14	OBL species x 1 = 0
50% of total cover:35_	20% of	total cover:		
Sapling/Shrub Stratum (Plot size: 15				FACVV species X Z = S
1. Ilex opaca	30	Yes	FACU	FAC species X3 =
2		·		FACU species x 4 =
3				UPL species x 5 =
4				Column Totals:106
5				
	-			Prevalence Index = B/A =3.8
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 ¹
4-		= Total Cover		4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover:15	20% of	total cover:	6	data in Remarks or on a separate sheet)
Herb Stratum (Plot size:5				. ,
1. Smilax rotundifolia	4	Yes	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Lonicera japonica	2	Yes	FAC	
3				¹Indicators of hydric soil and wetland hydrology must
4				be present, unless disturbed or problematic.
F				Definitions of Four Vegetation Strata:
5				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6				more in diameter at breast height (DBH), regardless of
7				height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11		·		Herb – All herbaceous (non-woody) plants, regardless
	6	= Total Cover		of size, and woody plants less than 3.28 ft tall.
50% of total cover:3	20% of	total cover:	1.2	Was desired Allowed as a section than 0.00 ft is
Woody Vine Stratum (Plot size:)				Woody vine – All woody vines greater than 3.28 ft in height.
1. Vitis sp.	5	Yes		noight.
2.				
3.	-			
4				Hydrophytic
5				Vegetation No. No.
0.5		= Total Cover	1	Present? Yes No
50% of total cover: 2.5	20% of	total cover:	<u>'</u>	
Remarks: (Include photo numbers here or on a separate s	heet.)			

Sampling Point: wwic003_u

Profile Des	cription: (Describe	to the dept				or confirm	the absen	ice of indicators.)
Depth	Matrix		Redo	K Feature	s	. 2	_	
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Texture SL	Remarks
0-5	10 YR 3/2	100					-	
5-16	2.5 Y 5/6	100					SL	
		· <u></u>				·		_
								_
								<u> </u>
								<u> </u>
	-				-	·		
					-			
	- ·							
	-	·						
1T 0. 6		lation DM	Deduced Matrix MC				21	Di Bara Listan M Matrix
	Concentration, D=Dep Indicators:	letion, RM=	Reduced Matrix, MS	s=Masked	Sand Gr	ains.		: PL=Pore Lining, M=Matrix. dicators for Problematic Hydric Soils ³ :
-			5 1 6 7	(07)			inc	· · · · · · · · · · · · · · · · · · ·
Histoso			Dark Surface		(00) (1			_ 2 cm Muck (A10) (MLRA 147)
	Epipedon (A2)		Polyvalue Be				148)	Coast Prairie Redox (A16)
	listic (A3)		Thin Dark Su		•	147, 148)		(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye		F2)			Piedmont Floodplain Soils (F19)
	ed Layers (A5) luck (A10) (LRR N)		Depleted Material Redox Dark S		-C)			(MLRA 136, 147) Very Shallow Dark Surface (TF12)
	ed Below Dark Surfac	a (Δ11)	Depleted Dar					Other (Explain in Remarks)
	Park Surface (A12)	- (A11)	Redox Depre					Other (Explain in Kemarks)
	Mucky Mineral (S1) (L	RR N	Iron-Mangan			I RR N		
	A 147, 148)	-1111 14,	MLRA 13		00 (1 12) (
	Gleyed Matrix (S4)		Umbric Surfa	-	MLRA 13	36, 122)	3	Indicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					wetland hydrology must be present,
	d Matrix (S6)		Red Parent N					unless disturbed or problematic.
	Layer (if observed):			(-	, (,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Í	
Type:								
	h \						Harabaia C	Sail Breasert 2 Van Na V
	nches):						Hydric S	Soil Present? Yes No
Remarks:								
lo hydric so	il present							



Photo 1
Upland data point wwic003_u facing northeast



Photo 2
Upland data point wwic003_u facing northwest

Project/Site: Atlantic Coast Pip	eline		City/C	county: Wilson		Sampling Date: 3/2/2015
Applicant/Owner: Dominion			·			_ Sampling Point: wwib101f_w
Investigator(s): TP, CR				on, Township, Range: N		
Landform (hillslope, terrace, et						
Subregion (LRR or MLRA): P	o.,	Lot	35.69346653	Jana: -78	.09941504	Glope (70)
Soil Map Unit Name: Wehadk	ee and Chew	Lat. acla loams		Long	NNA/1 1 'C'	PFO1/4B PSS1A
						ation: PFO1/4B, PSS1A
Are climatic / hydrologic condit						
Are Vegetation, Soil	, or Hyd	rology	significantly distur	bed? Are "Norma	al Circumstances" p	resent? Yes V
Are Vegetation, Soil	, or Hyd	rology	naturally problema	atic? (If needed,	explain any answer	s in Remarks.)
SUMMARY OF FINDIN	GS – Atta	ch site m	ap showing sam	npling point locati	ons, transects,	important features, etc.
Hudrophytic Vegetation Bree	nnt?	Voc. V	No			
Hydrophytic Vegetation Present?	ant?	Yes 🗸	No	Is the Sampled Area		
Wetland Hydrology Present?		Yes 🔽		within a Wetland?	Yes	No
Remarks:						
Forested wetland abutting stre WWIC003 at northernmost bo	eam SWIB10 undary.	0 and SWIE	3101. Dominated by re	ed maple, cherry bark oa	ak, river birch, and g	iant cane. Connects to wetland
HYDROLOGY						
Wetland Hydrology Indicate	ors:				Secondary Indicat	ors (minimum of two required)
Primary Indicators (minimum	of one is req	uired; checl	call that apply)		Surface Soil (Cracks (B6)
Surface Water (A1)		Sparsely Veg	etated Concave Surface (B8)			
High Water Table (A2)			Hydrogen Sulfide Od		Drainage Pat	terns (B10)
Saturation (A3)				es on Living Roots (C3)		
Water Marks (B1)			Presence of Reduced			Vater Table (C2)
Sediment Deposits (B2)			Recent Iron Reduction		Crayfish Burr	` '
Drift Deposits (B3)			Thin Muck Surface (C			sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		_	Other (Explain in Rer	narks)	· 	ressed Plants (D1)
Iron Deposits (B5)	-:	DZ)			Geomorphic I	
Inundation Visible on Ae		В7)			Shallow Aquit	
Water-Stained Leaves (E	39)				FAC-Neutral	phic Relief (D4)
Aquatic Fauna (B13)					FAC-Neutral	Test (D5)
Field Observations: Surface Water Present?	V V	NI-	Depth (inches):	0		
				10		
Water Table Present?			Depth (inches):	6	Hardwallana Barana	10 Y V N-
Saturation Present? (includes capillary fringe)	Yes	No	Depth (inches):	Wetland	Hydrology Present	t? Yes No
Describe Recorded Data (str	eam gauge, r	nonitoring v	vell, aerial photos, pre	vious inspections), if av	ailable:	
Remarks:						
Added 0 to depth of surface w	ater since bo	x was chec	ked. JM 6/17/15			

Sampling Point: wwib101f_w

00	Absolute	Dominant I		Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?	Status	Number of Dominant Species
1. Acer rubrum	20	Yes	FAC	That Are OBL, FACW, or FAC: 6 (A)
2. Quercus pagoda	20	Yes	FACW	T. 111 (5)
3. Liriodendron tulipifera	15	Yes	FACU	Total Number of Dominant Species Across All Strata: 7 (B)
∆ Betula nigra	10	No	FACW	Species Across Air Strata.
				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: <u>85.71428571</u> (A/B)
6				Dravial and a landov weather act.
7				Prevalence Index worksheet:
	65	= Total Cove	r	Total % Cover of: Multiply by:
50% of total cover: 32.5	20% of	total cover:_	13	OBL species 5 x 1 = 5
Sapling/Shrub Stratum (Plot size: 15)		_		FACW species 40
1 Carpinus caroliniana	5	Yes	FAC	FAC species 30 x 3 = 90
2. Acer rubrum	5	Yes	FAC	FACU species 15 x 4 = 60
2. Acer rubrum		163	170	
3				UPL species $0 \times 5 = 0$
4				Column Totals: (A) (B)
5				Prevalence Index = R/A = 2.61
6				1 Tevalence mack = B/T(=
				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 ¹
	10	= Total Cove		4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover:5	20% of	total cover:_	2	
Herb Stratum (Plot size: 5				data in Remarks or on a separate sheet)
1 Arundinaria gigantea	10	Yes	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
2 Osmunda spectabilis	5	Yes	OBL	
				¹ Indicators of hydric soil and wetland hydrology must
3				be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
7				more in diameter at breast height (DBH), regardless of height.
Ď.				noight.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless
	15	= Total Cove	r	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 7.5	20% of	total cover:_	3	W 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Woody Vine Stratum (Plot size:)				Woody vine – All woody vines greater than 3.28 ft in height.
				neight.
1				
2				
3				
4				Hydrophytic
5				Vegetation
	0 :	= Total Cove	r	Present? Yes No
50% of total cover:	20% of	total cover:_	0	
Remarks: (Include photo numbers here or on a separate s				
remarks. (include priote numbers here of on a separate s	noct.)			

Profile Desc	cription: (Describe to	the depth	needed to docum	nent the in	dicator	or confirm	the ab	sence of indicators.)	
Depth	Matrix			x Features					
(inches) 0-12	Color (moist) 10YR 5/1	% 95 1	Color (moist) 0YR 4/6	<u>%</u> 5	Type ¹ C	Loc ²		tture Remarks CL	
							-		
¹Type: C=C	oncentration, D=Deple	tion, RM=R	Reduced Matrix, MS	S=Masked	Sand Gra	ains.	² Locat	tion: PL=Pore Lining, M=Matrix.	
Hydric Soil	Indicators:							Indicators for Problematic Hydric So	oils³:
Histosol	(A1)		Dark Surface	(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)	
	istic (A3)		Thin Dark Su			47, 148)		(MLRA 147, 148)	
	en Sulfide (A4)		Loamy Gleye	•	2)			Piedmont Floodplain Soils (F19)	
	d Layers (A5)		✓ Depleted Mar					(MLRA 136, 147)	
	uck (A10) (LRR N)	(8.4.4)	Redox Dark					Very Shallow Dark Surface (TF12))
	d Below Dark Surface	(A11)	Depleted Dar		. ,			Other (Explain in Remarks)	
	ark Surface (A12) ⁄lucky Mineral (S1) (LF	DD N	Redox Depre			DD N			
	A 147, 148)	XIX IN,	MLRA 13		5 (1-12) (1	LIXIX IN,			
	Gleyed Matrix (S4)		Umbric Surfa	•	/ILRA 13	6. 122)		³ Indicators of hydrophytic vegetation	and
	Redox (S5)		Piedmont Flo				.8)	wetland hydrology must be present,	
-	Matrix (S6)		Red Parent N					unless disturbed or problematic.	,
	Layer (if observed):			,				·	
Type:									
Depth (in	ches):		_				Hydr	ric Soil Present? Yes No _	
Remarks:	, -						L _		
									ļ



Photo 1
Wetland data point wwib101f_w facing northeast



Photo 2
Wetland data point wwib101f_w facing southwest

Project/Site: Atlantic Coast Pipeline		City/C	County: Wilson		Sampling Date: 3/2/2015		
Applicant/Owner: Dominion					Sampling Point: wwib101_u		
		Secti	on, Township, Range: No	PLSS in this area	1		
Landform (hillslope, terrace, etc.): hill sl							
Subregion (LRR or MLRA): P	Lat:	35.69362863	Long: -78.0	09943295	Datum: WGS 1984		
Soil Map Unit Name: Wehadkee and Ch	newacla loams	-		NWI classific	ation: None		
Are climatic / hydrologic conditions on the	ne site typical fo						
Are Vegetation, Soil, or							
Are Vegetation, Soil, or							
SUMMARY OF FINDINGS – A							
					· · ·		
Hydrophytic Vegetation Present? Hydric Soil Present?	Yes	No 🗸	Is the Sampled Area		/		
Wetland Hydrology Present?	Yes		within a Wetland?	Yes	No		
Remarks:							
HYDROLOGY							
Wetland Hydrology Indicators:					tors (minimum of two required)		
Primary Indicators (minimum of one is	•			Surface Soil			
Surface Water (A1)		True Aquatic Plants		Sparsely Vegetated Concave Surface (B8)			
High Water Table (A2)		Hydrogen Sulfide Od		Drainage Patterns (B10) Roots (C3) Moss Trim Lines (B16)			
Saturation (A3)			• ,				
Water Marks (B1) Sediment Deposits (B2)		Presence of Reduced Recent Iron Reduction		Dry-Season Water Table (C2)			
Orift Deposits (B3)		Thin Muck Surface (
Algal Mat or Crust (B4)		Other (Explain in Re		Saturation Visible on Aerial Imagery (C9)Stunted or Stressed Plants (D1)			
Iron Deposits (B5)		` '	,	Geomorphic	, ,		
Inundation Visible on Aerial Image	ery (B7)			Shallow Aquitard (D3)			
Water-Stained Leaves (B9)				Microtopogra	phic Relief (D4)		
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)		
Field Observations:							
		Depth (inches):					
		Depth (inches):					
Saturation Present? Yes (includes capillary fringe)	No	Depth (inches):	Wetland F	Hydrology Presen	t? Yes No		
Describe Recorded Data (stream gaug	e, monitoring w	vell, aerial photos, pre	evious inspections), if ava	ilable:			
Remarks:							

Sampling	Point: wwib101_	_u
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	Absolute	Dominant In	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size:)			Status	Number of Dominant Species
1. Liriodendron tulipifera	15	Yes	FACU	That Are OBL, FACW, or FAC: 2 (A)
2. Quercus alba	15	Yes	FACU	Total Number of Dominant
3. Pinus taeda	10	Yes	FAC	Species Across All Strata: 8 (B)
4. Quercus falcata	10	Yes	FACU	
5				Percent of Dominant Species That Are OBL, FACW, or FAC:25 (A/B)
6				That Are OBL, FACW, OF FAC.
7				Prevalence Index worksheet:
r	50	= Total Cove		Total % Cover of: Multiply by:
50% of total cover: 25		total cover:_	10	OBL species0 x 1 =0
Sapling/Shrub Stratum (Plot size: 15)	20 /0 01	total cover		FACW species0
Acer rubrum (Flot Size)	5	Yes	FAC	FAC species 15 x 3 = 45
2. Ilex opaca		Yes	FACU	FACU species 55 x 4 = 220
2. Hex opaca		169	TACO	
3				70 265
4				Column Totals: (A) (B)
5				Prevalence Index = B/A = 3.78
6				Hydrophytic Vegetation Indicators:
7				
8				1 - Rapid Test for Hydrophytic Vegetation
9.				2 - Dominance Test is >50%
<u> </u>	10	= Total Cove		3 - Prevalence Index is ≤3.0 ¹
50% of total cover: 5		total cover:_	2	4 - Morphological Adaptations ¹ (Provide supporting
50 % of total 60 vol	20 /0 01	total cover		data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5 1 Polystichum acrostichoides	5	Yes	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Tipularia discolor		Yes	FACU	
		165	TACO	¹ Indicators of hydric soil and wetland hydrology must
3				be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				Total Mandaglasta modulinasiana Gia (7.0 an) an
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
7				height.
8				
9.				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
10.				m) tall.
11.				
· · · · · · · · · · · · · · · · · · ·	10	Tatal Cause		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 5		= Total Cover total cover:	_	or size, and woody plants less than 3.20 it tall.
0070 01 (0(4) 00701.	20 /0 01	total cover		Woody vine – All woody vines greater than 3.28 ft in
voody vine otratum (1 lot size.				height.
1				
2				
3				
4				Hydrophytic
5				Vegetation
	0 :	= Total Cove	r	Present? Yes No
50% of total cover: 0	20% of	total cover:_	0	
Remarks: (Include photo numbers here or on a separate s	heet.)			

Sampling Point: wwib101_u

	Matrix	 _	Redox Features		
(inches)	Color (moist)	%	Color (moist) % Type ¹ Loc ²		Remarks
0-10	10YR 3/3	100		SL	
10-14	10YR 4/4	100		SCL	
	-			_	
				<u> </u>	
	•				
					_
		oletion, RM=Re	educed Matrix, MS=Masked Sand Grains.		PL=Pore Lining, M=Matrix.
ydric Soil	Indicators:			Indi	cators for Problematic Hydric Soils ³ :
Histosol	l (A1)		Dark Surface (S7)		2 cm Muck (A10) (MLRA 147)
_ Histic E	pipedon (A2)		Polyvalue Below Surface (S8) (MLRA 1	47, 148)	Coast Prairie Redox (A16)
Black H	istic (A3)		Thin Dark Surface (S9) (MLRA 147, 148	3)	(MLRA 147, 148)
Hydroge	en Sulfide (A4)		Loamy Gleyed Matrix (F2)		Piedmont Floodplain Soils (F19)
Stratifie	d Layers (A5)		Depleted Matrix (F3)		(MLRA 136, 147)
2 cm M	uck (A10) (LRR N)		Redox Dark Surface (F6)		Very Shallow Dark Surface (TF12)
Deplete	d Below Dark Surfac	e (A11)	Depleted Dark Surface (F7)		Other (Explain in Remarks)
_ Thick D	ark Surface (A12)		Redox Depressions (F8)		
_ Sandy N	Mucky Mineral (S1) (LRR N,	Iron-Manganese Masses (F12) (LRR N,		
	A 147, 148)		MLRA 136)		
Sandy (Gleyed Matrix (S4)		Umbric Surface (F13) (MLRA 136, 122)	³ lr	ndicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Floodplain Soils (F19) (MLRA		vetland hydrology must be present,
	d Matrix (S6)		Red Parent Material (F21) (MLRA 127,		inless disturbed or problematic.
	Layer (if observed)	:			· ·
CSUICUVC					
	,				
Type:			_	Hudria Ca	sil Brocent? Voc. No.
Type: Depth (in			-	Hydric Sc	oil Present? Yes No
Type:			_	Hydric Sc	oil Present? Yes No
Type: Depth (in			- -	Hydric Sc	oil Present? Yes No
Type: Depth (in			<u> </u>	Hydric Sc	oil Present? Yes No
Type: Depth (in			- -	Hydric Sc	oil Present? Yes No
Type: Depth (in			- -	Hydric Sc	oil Present? Yes No
Type: Depth (in			- -	Hydric Sc	oil Present? Yes No
Type: Depth (in			-	Hydric Sc	oil Present? Yes No
Type: Depth (in			-	Hydric Sc	oil Present? Yes No
Type: Depth (in			-	Hydric Sc	oil Present? Yes No
Type: Depth (in			-	Hydric So	oil Present? Yes No
Type: Depth (in				Hydric So	oil Present? Yes No
Type: Depth (in				Hydric So	oil Present? Yes No
Type: Depth (in				Hydric So	oil Present? Yes No
Type: Depth (in				Hydric So	oil Present? Yes No
Type: Depth (in				Hydric So	oil Present? Yes No
Type: Depth (in				Hydric Sc	oil Present? Yes No
Type: Depth (in				Hydric Sc	oil Present? Yes No
Type: Depth (in				Hydric Sc	oil Present? Yes No
Type: Depth (in				Hydric Sc	oil Present? Yes No
Type: Depth (in				Hydric Sc	oil Present? Yes No
Type: Depth (in				Hydric Sc	oil Present? Yes No
Type: Depth (in				Hydric Sc	oil Present? Yes No
Type: Depth (in				Hydric Sc	oil Present? Yes No
Type: Depth (in				Hydric Sc	oil Present? Yes No
Type: Depth (in				Hydric Sc	oil Present? Yes No



Photo 1
Upland data point wwib101_u facing northwest



Photo 2
Upland data point wwib101_u facing north

Project/Site: Atlantic Coast Pip	eline		City/C	ounty: Wilson		Sampling Date: 3/2/2015			
Applicant/Owner: Dominion					State: NC	Sampling Point: WWIB100f_w			
Investigator(s): TP, CR			Section, Township, Range: No PLSS in this area						
Landform (hillslope, terrace, etc									
						Datum: WGS 1984			
Soil Map Unit Name: Wehadke	e and Chewacl	loams			NWI classifi	cation: PFO1/4B, PSS1A			
Are climatic / hydrologic conditi									
·			•			present? Yes No			
Are Vegetation, Soil									
						s, important features, etc.			
				g p	,	-, ,			
Hydrophytic Vegetation Prese	nt? Yes	<u> </u>	No _ No	Is the Sampled Area					
Hydric Soil Present?			No	within a Wetland?	Yes	No			
Wetland Hydrology Present? Remarks:			NO						
HYDROLOGY									
Wetland Hydrology Indicato	re.				Secondary Indic	ators (minimum of two required)			
Primary Indicators (minimum		d. chack	r all that annly)		Surface Soil				
✓ Surface Water (A1)	one is require		True Aquatic Plants (R14)		getated Concave Surface (B8)			
✓ High Water Table (A2)			Hydrogen Sulfide Ode			atterns (B10)			
Saturation (A3)			-	es on Living Roots (C3)	Moss Trim L	· · · ·			
Water Marks (B1)			Presence of Reduced			Water Table (C2)			
Sediment Deposits (B2)			Recent Iron Reductio		Crayfish Bu	· ·			
Drift Deposits (B3)			Thin Muck Surface (C	27)	Saturation V	isible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)			Other (Explain in Ren	narks)	Stunted or S	Stressed Plants (D1)			
Iron Deposits (B5)						Position (D2)			
Inundation Visible on Aer					Shallow Aquitard (D3)				
Water-Stained Leaves (B	9)				Microtopographic Relief (D4) ✓ FAC-Neutral Test (D5)				
Aquatic Fauna (B13)					FAC-Neutra	Test (D5)			
Field Observations: Surface Water Present?	V V N		Danth (inch so)	3					
			Depth (inches):	0					
Water Table Present? Saturation Present?			Depth (inches):	0 Wetland b	lydrology Prese	nt? Yes ✔ No			
(includes capillary fringe)	res N	·	Depth (inches):	wetland r	iyarology Prese	nt? res No			
Describe Recorded Data (stre	am gauge, mor	itoring w	ell, aerial photos, pre	vious inspections), if ava	ilable:				
Devente									
Remarks:									

Sampling	Point: WWIB100f_	w
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00	Absolute	Dominant Ir		Dominance Test worksheet:
Tree Stratum (Plot size:)			Status	Number of Dominant Species
1. Quercus phellos	15	Yes	FAC	That Are OBL, FACW, or FAC:6 (A)
2. Liquidambar styraciflua	10	Yes	FAC	
3. Quercus nigra	10	Yes	FAC	Total Number of Dominant
		-		Species Across All Strata: 6 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC:100 (A/B)
6				
7.				Prevalence Index worksheet:
	35	= Total Cover		Total % Cover of: Multiply by:
50% of total cover: 17.5			7	OBL species0 x 1 =0
15	20% of	total cover:		15 30
Sapling/Snrub Stratum (Plot size:)				100
1. Acer rubrum	5	Yes	FAC	FAC species x 3 =
2. Magnolia virginiana	5	Yes	FACW	FACU species x 4 =
3.		. <u></u> _		UPL species0 x 5 =0
3				Column Totals: 55 (A) 150 (B)
4				Column Totals (A) (B)
5				Prevalence Index = B/A =2.72
6				-
7				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9				✓ 3 - Prevalence Index is ≤3.0¹
	10	= Total Cover		4 - Morphological Adaptations¹ (Provide supporting
50% of total cover: 5	20% of	total cover:	2	
Herb Stratum (Plot size:)				data in Remarks or on a separate sheet)
1 Arundinaria gigantea	10	Yes	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
11,			171011	
2				¹ Indicators of hydric soil and wetland hydrology must
3				be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				Definitions of Four Vegetation Strata.
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6				more in diameter at breast height (DBH), regardless of
7				height.
8				On the Motor to Manchanta and the main and
9				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
				m) tall.
10		-		,
11				Herb - All herbaceous (non-woody) plants, regardless
	10	= Total Cover	r	of size, and woody plants less than 3.28 ft tall.
50% of total cover:5	20% of	total cover:	2	Was devices All was devices assets then 2.00 ft in
Woody Vine Stratum (Plot size: 30)				Woody vine – All woody vines greater than 3.28 ft in height.
· · · · · · · · · · · · · · · · · · ·				neight.
1				
2				
3				
4				Uhadaankasia
5.				Hydrophytic Vegetation
<u> </u>	0	Tatal Cause		Present? Yes No
50% of total cover: 0		= Total Cover	0	· · · · · · · · · · · · · · · · · · ·
50% of total cover:0	20% of	total cover:		
Remarks: (Include photo numbers here or on a separate s	heet.)			

Sampling Point: WWIB100f_w

Depth	Matrix			k Features		. 2	- .	ъ .
inches) 0-4	Color (moist) 10YR 5/1	<u>%</u> 97	Color (moist) 10YR 4/6	3	Type ¹ C	Loc ²	<u>Texture</u> SL	Remarks
0-4	10113/1	97	101R 4/0					
4-12	10YR 6/1	100					SCL	
	-	-			-			
		-						
		-						
	-							
								<u> </u>
								· -
	-	-						
		letion, RM	I=Reduced Matrix, MS	S=Masked	Sand Gra	ains.	² Location: F	PL=Pore Lining, M=Matrix.
ydric Soil	Indicators:							ators for Problematic Hydric Soils ³ :
_ Histosol			Dark Surface					2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be		. , .		148) (Coast Prairie Redox (A16)
	istic (A3)		Thin Dark Su			47, 148)		(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye		=2)		F	Piedmont Floodplain Soils (F19)
	d Layers (A5)		<u>✓</u> Depleted Mat		_,			(MLRA 136, 147)
	uck (A10) (LRR N)	- (044)	Redox Dark S	•	•			Very Shallow Dark Surface (TF12)
	d Below Dark Surfac	e (A11)	Depleted Dar				_ (Other (Explain in Remarks)
	ark Surface (A12)	DD N	Redox Depre			DD N		
	Mucky Mineral (S1) (I	LKK N,	Iron-Mangane		es (F12) (LKK N,		
	A 147, 148)		MLRA 136	•	MI D A 42	c 400\	3100	diagtors of budraphytic varieties and
	Gleyed Matrix (S4) Redox (S5)		Umbric Surfa					dicators of hydrophytic vegetation and
	d Matrix (S6)		Piedmont Flo Red Parent M					etland hydrology must be present, nless disturbed or problematic.
	Layer (if observed):		Neu Falelii iv	iateriai (F2	21) (IVILIX	H 127, 147) ui	liess disturbed of problematic.
	Layer (ii observed).							
Type:								
Depth (in	ches):						Hydric Soi	I Present? Yes No
emarks:								



Photo 1
Wetland data point wwib100f_w facing northwest



Photo 2
Wetland data point wwib100f_w facing west

Project/Site: Atlantic Coast Pipeline		City/C	ounty: Wilson		Sampling Date: 3/2/2015		
Applicant/Owner: Dominion					Sampling Point: WWIB100_u		
			on, Township, Range: No				
Landform (hillslope, terrace, etc.): hill sl							
Subregion (LRR or MLRA): P							
Soil Map Unit Name: State loamy sand,	0 to 3 percent slo	ppes		NWI classific	ation: None		
Are climatic / hydrologic conditions on the	ne site typical for t	his time of year? Y	es No	(If no, explain in Re	emarks.)		
Are Vegetation, Soil, or	Hydrology	significantly distur	bed? Are "Normal	l Circumstances" p	resent? Yes No		
Are Vegetation, Soil, or							
SUMMARY OF FINDINGS – A							
Hydrophytic Vegetation Present?	Yes	Is the Sampled Area		,			
Hydric Soil Present?	Yes Yes		within a Wetland?	Yes	No		
Wetland Hydrology Present? Remarks:	res	NO					
HYDROLOGY							
Wetland Hydrology Indicators:					tors (minimum of two required)		
Primary Indicators (minimum of one is	-			Surface Soil Cracks (B6)			
Surface Water (A1)		ue Aquatic Plants (l		Dry-Season Water Table (C2)			
High Water Table (A2)		drogen Sulfide Odd					
Saturation (A3)			es on Living Roots (C3)				
Water Marks (B1) Sediment Deposits (B2)		esence of Reduced	n in Tilled Soils (C6)				
Orift Deposits (B3)		nin Muck Surface (C		· ·			
Algal Mat or Crust (B4)		ther (Explain in Ren		Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1)			
Iron Deposits (B5)		(=	,	Geomorphic	, ,		
Inundation Visible on Aerial Image	ery (B7)			Shallow Aquitard (D3)			
Water-Stained Leaves (B9)				Microtopographic Relief (D4)			
Aquatic Fauna (B13)				✓ FAC-Neutral	Test (D5)		
Field Observations:							
		epth (inches):					
Water Table Present? Yes	No 🔽 🗅	epth (inches):					
Saturation Present? Yes (includes capillary fringe)	No D	epth (inches):	Wetland F	lydrology Presen	t? Yes No		
Describe Recorded Data (stream gaug	je, monitoring wel	l, aerial photos, pre	vious inspections), if ava	ilable:			
Domostro							
Remarks:							

Sampling Po	nt: WWIB100_u
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00	Absolute	Dominant In		Dominance Test worksheet:
Tree Stratum (Plot size:)			Status	Number of Dominant Species
1. Pinus taeda	30	Yes	FAC	That Are OBL, FACW, or FAC:4 (A)
2. Quercus alba	20	Yes	FACU	
3. Quercus phellos	10	No	FAC	Total Number of Dominant
3. <u> </u>		-		Species Across All Strata:5 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC:80 (A/B)
6				
7.				Prevalence Index worksheet:
·· <u>·</u>	60	= Total Cover		Total % Cover of: Multiply by:
50% of total cover: 30			12	OBL species0 x 1 =0
15	20% 01	total cover:		5 10
Sapiing/Shrub Stratum (Plot size:)				
1. Magnolia virginiana	5	Yes	FACW	FAC species X3 =
2. Acer rubrum	5	Yes	FAC	FACU species x 4 = 80
3.		·		UPL species0 x 5 =0
3				Column Totals: 75 (A) 240 (B)
4				Column Totals (A) (B)
5				Prevalence Index = B/A =3.2
6				1 Tevalence index = B/T(=
7				Hydrophytic Vegetation Indicators:
		-		1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 ¹
	10	= Total Cover		4 - Morphological Adaptations¹ (Provide supporting
50% of total cover:5	20% of	total cover:	2	
Herb Stratum (Plot size:)				data in Remarks or on a separate sheet)
				Problematic Hydrophytic Vegetation ¹ (Explain)
1				
2				¹ Indicators of hydric soil and wetland hydrology must
3				be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				Definitions of Four Vegetation Strata.
		 -		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6				more in diameter at breast height (DBH), regardless of
7				height.
8				One Hand Olivert
9				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
				m) tall.
10				,
11				Herb - All herbaceous (non-woody) plants, regardless
	0	= Total Cover		of size, and woody plants less than 3.28 ft tall.
50% of total cover:5	20% of	total cover:	2	Was devices All was devices assessment as 2 20 ft in
Woody Vine Stratum (Plot size:)				Woody vine – All woody vines greater than 3.28 ft in height.
1 Smilax rotundifolia	5	Yes	FAC	neight.
2		 -		
3				
4				Ukudaankusia
5.				Hydrophytic Vegetation
<u> </u>	5	Tatal Cause		Present? Yes No
25		= Total Cover	1	100 100
50% of total cover: 2.5	20% of	total cover:		
Remarks: (Include photo numbers here or on a separate s	neet.)			

Sampling Point: WWIB100_u

Depth	Matrix		Redox Features		
inches)	Color (moist)	<u>%</u>	Color (moist) % Type ¹ Loc ²		Remarks
0-10	10YR 4/1	100		SL	
10-14	10YR 6/1	100		SCL	
				<u> </u>	
	•			_	
					_
	`anaantration D Dar	olotion DM D	adveced Metrix MC Meeted Cond Crains	² l continu	DI Dara Lining M Matrix
	Indicators:	pletion, Rivi=Ri	educed Matrix, MS=Masked Sand Grains.		PL=Pore Lining, M=Matrix. cators for Problematic Hydric Soils ³ :
•			D 1 0 ((0T)		
_ Histoso			Dark Surface (S7)		2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Below Surface (S8) (MLRA 1		Coast Prairie Redox (A16)
	listic (A3)		Thin Dark Surface (S9) (MLRA 147, 148		(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleyed Matrix (F2)		Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Matrix (F3)		(MLRA 136, 147)
	uck (A10) (LRR N)	(* ()	Redox Dark Surface (F6)		Very Shallow Dark Surface (TF12)
	ed Below Dark Surfac	ce (A11)	Depleted Dark Surface (F7)		Other (Explain in Remarks)
	ark Surface (A12)		Redox Depressions (F8)		
	Mucky Mineral (S1) (LRR N,	Iron-Manganese Masses (F12) (LRR N,		
	A 147, 148)		MLRA 136)	а.	
	Gleyed Matrix (S4)		Umbric Surface (F13) (MLRA 136, 122)		ndicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Floodplain Soils (F19) (MLRA		vetland hydrology must be present,
	d Matrix (S6)		Red Parent Material (F21) (MLRA 127,	147) u	inless disturbed or problematic.
estrictive	Layer (if observed)	:			
Type:			_		
Depth (in	nches):		<u>_</u>	Hydric So	oil Present? Yes No 💆
emarks:					



Photo 1 Upland data point WWIB100_u facing east



Photo 2
Upland data point WWIB100_u facing southeast

Project/Site: Atlantic Coast Pip	peline	City/Co	ounty: Wilson		Sampling Date: 2/22/2015
Applicant/Owner: DOMINION					Sampling Point: wwic004f_w
Investigator(s): Team C		Section	n, Township, Range: No	PLSS in this area	
Landform (hillslope, terrace, et					
					Datum: WGS 1984
Soil Map Unit Name: Roanoke	Lat • loam				
Are climatic / hydrologic condit	ions on the site typical for	r this time of year? Ye	es No	(If no, explain in R	emarks.)
Are Vegetation, Soil	, or Hydrology	significantly disturb	ed? Are "Norma	Circumstances" p	present? Yes No
Are Vegetation, Soil	, or Hydrology	naturally problemat	ic? (If needed, e	explain any answe	rs in Remarks.)
SUMMARY OF FINDIN	GS – Attach site m	ap showing sam	pling point location	ons, transects	, important features, etc.
Hydrophytia Vagatation Drag	ont? Van V	No			
Hydrophytic Vegetation Present?		No	Is the Sampled Area		
Wetland Hydrology Present?		No	within a Wetland?	Yes	No
Remarks:	100				
the wetland at the time of sam	uch of the water inputs fr ipling. Wetland is a mosa	om a nearby agricultui	ral field. About an Inch t sections.	o an Inch and a ha	alf of ice was found throughout
HYDROLOGY					
Wetland Hydrology Indicate	ors:			Secondary Indica	ators (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 (B	514)	Sparsely Ve	getated Concave Surface (B8)
High Water Table (A2)		Hydrogen Sulfide Odo		✓ Drainage Pa	tterns (B10)
Saturation (A3)			s on Living Roots (C3)	Moss Trim L	
Water Marks (B1)		Presence of Reduced			Water Table (C2)
Sediment Deposits (B2)		Recent Iron Reduction		Crayfish Bur	
Drift Deposits (B3)		Thin Muck Surface (C7			isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	_ '	Other (Explain in Rem	arks)		tressed Plants (D1)
Iron Deposits (B5)	(DZ)			Geomorphic	
Inundation Visible on Ae				Shallow Aqu	
Water-Stained Leaves (E Aquatic Fauna (B13)	39)				aphic Relief (D4)
Field Observations:			1	FAC-Neutral	Test (D5)
	Van Na V	Donath (inch oo)			
Surface Water Present?	Yes No				
Water Table Present?	Yes No	^			
Saturation Present? (includes capillary fringe)	Yes No	Depth (inches):	Wetland F	lydrology Preser	nt? Yes No
Describe Recorded Data (stre	eam gauge, monitoring w	ell, aerial photos, prev	ious inspections), if ava	ilable:	
Remarks:					
Wetland hydrology present					

Sampling Point: wwic004f_w

00	Absolute	Dominant In		Dominance Test worksheet:
Tree Stratum (Plot size:)			Status	Number of Dominant Species
1. Quercus phellos	40	Yes	FAC	That Are OBL, FACW, or FAC:5 (A)
2. Liquidambar styraciflua	15	Yes	FAC	Total Number of Deminent
3. Quercus alba	10	No	FACU	Total Number of Dominant Species Across All Strata: 7 (B)
4. Acer rubrum	10	No	FAC	Operics / toross / till othata.
				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 71.42857142 (A/B)
6				Prevalence Index worksheet:
7				
	75	= Total Cove		
50% of total cover: <u>37.5</u>	20% of	total cover:_	15	ODL species
Sapling/Shrub Stratum (Plot size: 15				FACW species x 2 =
1 Magnolia virginiana	10	Yes	FACW	FAC species80
2. Acer rubrum	5	Yes	FAC	FACU species15 x 4 =60
3. Ilex opaca		Yes	FACU	UPL species0 x 5 =0
3. <u>"ex opaca"</u>		163	1700	105 320
4				Column Totals:(A)(B)
5				Prevalence Index = B/A =3.04
6				Trevalence mack = B/TC =
7		<u></u>		Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
8		-		✓ 2 - Dominance Test is >50%
9		-		3 - Prevalence Index is ≤3.0 ¹
40		= Total Cove	r ,	4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover:10	20% of	total cover:_	4	data in Remarks or on a separate sheet)
Herb Stratum (Plot size:)				• • • • • • • • • • • • • • • • • • • •
1. Rubus pensilvanicus	10	Yes	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Carex sp.	5	Yes		
				¹ Indicators of hydric soil and wetland hydrology must
3				be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6				more in diameter at breast height (DBH), regardless of
7				height.
8.				
^				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
·				m) tall.
10		-		Tilly tall.
11				Herb - All herbaceous (non-woody) plants, regardless
		= Total Cove		of size, and woody plants less than 3.28 ft tall.
50% of total cover: 7.5	20% of	total cover:_	3	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size:)				height.
1				
2				
3				
4				Hydrophytic
5				Vegetation
	0	= Total Cove		Present? Yes No
50% of total cover: 0	20% of	total cover:_	0	
Remarks: (Include photo numbers here or on a separate s	heet.)			
(,			

Sampling Point: wwwic004f_w

Profile Des	cription: (Describe t	o the de				or confirm	the absence	e of indicators.)
Depth	Matrix	0/	Redo	x Feature		. 2	- .	5 .
(inches) 0-14	Color (moist) 2.5 Y 4/2	<u>%</u>	Color (moist) 2.5 Y 6/8	<u>%</u> 7	Type ¹ C	Loc ² PL/M	Texture SICL	Remarks
0-14	2.5 1 4/2	93	2.5 1 0/0			PL/IVI	SICL	
					-			
					-			
					-			
		-	· ·		-	· ——		<u> </u>
¹ Type: C=C	concentration, D=Depl	etion RM	1-Reduced Matrix MS	S-Masker	I Sand Gr	ains	² l ocation: I	PL=Pore Lining, M=Matrix.
	Indicators:	otion, reiv	I-readoca Matrix, Me	J-Masket	a Garia Gi	airio.		cators for Problematic Hydric Soils ³ :
-			Dark Surface	(97)				· · · · · · · · · · · · · · · · · · ·
Histoso	pipedon (A2)		Dark Surface Polyvalue Be		co (SS) /	/II D A 4.47		2 cm Muck (A10) (MLRA 147) Coast Prairie Redox (A16)
							140)	
	listic (A3) en Sulfide (A4)		Thin Dark Su Loamy Gleye			141, 148)		(MLRA 147, 148) Piedmont Floodplain Soils (F19)
					r2)		'	
	d Layers (A5)		<u>✓</u> Depleted Mat	. ,	-c)		,	(MLRA 136, 147)
	uck (A10) (LRR N)	(/////	Redox Dark S	•				Very Shallow Dark Surface (TF12)
	d Below Dark Surface	(A11)	Depleted Dar				'	Other (Explain in Remarks)
	ark Surface (A12)	DD N	Redox Depre			I DD N		
	Mucky Mineral (S1) (L	KK N,	Iron-Mangan		es (F12) (LKK N,		
	A 147, 148)		MLRA 13	-	(BB) BA 46		3,	
	Gleyed Matrix (S4)		Umbric Surfa					dicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					etland hydrology must be present,
	d Matrix (S6)		Red Parent N	/laterial (F	21) (MLR	A 127, 147	') ui	nless disturbed or problematic.
Restrictive	Layer (if observed):							
Type:								
Depth (in	iches):						Hydric So	il Present? Yes No
Remarks:								
lydric soil pr	esent							



Photo 1
Wetland data point wwic004f_w facing west



Photo 2
Wetland data point wwic004f_w facing south

Project/Site: Atlantic Coast Pipeline	City/County: Wilson	Sampling Date: 2/22/2015				
Applicant/Owner: DOMINION		State: NC Sampling Point: wwic004_u				
Investigator(s): Team C Section, Township, Range: No PLSS in this area						
Landform (hillslope, terrace, etc.): Slight Slope	Local relief (concave, convex,	none): none Slope (%): 2				
Subregion (LRR or MLRA): P Lat: 35.69048403 Long:						
	pical for this time of year? Yes No					
		mal Circumstances" present? Yes No				
	gy naturally problematic? (If needed					
		tions, transects, important features, etc.				
Attaons		— — — — — — — — — — — — — — — — — — —				
	No Is the Sampled Are	a				
	No within a Wetland?	Yes No				
Wetland Hydrology Present? Yes Remarks:	No					
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of one is required	l: 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 (C:					
Water Marks (B1)	Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)				
Sediment Deposits (B2)	Recent Iron Reduction in Tilled Soils (C6)	Crayfish Burrows (C8)				
Drift Deposits (B3)	Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)				
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)Microtopographic Relief (D4)				
Water-Stained Leaves (B9)Aquatic Fauna (B13)		FAC-Neutral Test (D5)				
Field Observations:		PAC-Neutral Test (D3)				
	Depth (inches):					
	✓ Depth (inches):					
		d Hydrology Present? Yes No				
(includes capillary fringe)						
Describe Recorded Data (stream gauge, monit	coring well, aerial photos, previous inspections), if a	avaliable:				
Remarks:						
No wetland hydrology indicators						

Sampling Poir	ղք∙ wwic004_	u
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•	Absolute	Dominant Ir	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size:)			Status	Number of Dominant Species
1. Liquidambar styraciflua	40	Yes	FAC	That Are OBL, FACW, or FAC: 2 (A)
2. Quercus alba	25	Yes	FACU	Total Number of Deminant
3. Quercus stellata	10	No	UPL	Total Number of Dominant Species Across All Strata: 4 (B)
4. Quercus falcata	5	No	FACU	
5				Percent of Dominant Species That Are ORL FACW or FAC: 50 (A/R)
Ď.				That Are OBL, FACW, or FAC: (A/B)
				Prevalence Index worksheet:
7	80	T 0		Total % Cover of: Multiply by:
50% of total cover: 40		= Total Cove	r 16	OBL species 0 x 1 = 0
15	20% of	total cover:_		FACW species 10 x 2 = 20
Sapling/Shrub Stratum (Plot size:)	50	V	FACIL	45 125
1. Ilex opaca	50	Yes	FACU	FAC species 80 x 3 = 133 320
2. Magnolia virginiana	10	No	FACW	FACU species X 4 =
3				UPL species X 5 =
4				Column Totals: (A) (B)
5				Prevalence Index - B/A - 3.62
6		<u></u>		Trevalence index = B/A =
7				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
_				2 - Dominance Test is >50%
9	60			3 - Prevalence Index is ≤3.0 ¹
50% of total cover: 30		= Total Cover total cover:	r 12	4 - Morphological Adaptations ¹ (Provide supporting
50 70 OI total cover	20% 01	total cover:		data in Remarks or on a separate sheet)
Herb Stratum (Plot size:	5	Vaa	EAC	Problematic Hydrophytic Vegetation ¹ (Explain)
1. Loriicera japonica		Yes	FAC	
2				¹ Indicators of hydric soil and wetland hydrology must
3				be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
7				height.
8				
9.				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
10.				m) tall.
11.				
· · · · · · · · · · · · · · · · · · ·	5	Tatal Cause		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 2.5		= Total Cover total cover:		of size, and woody plants less than 3.20 it tall.
0070 01 (0001 00701:	20 /0 01	total cover		Woody vine – All woody vines greater than 3.28 ft in
voody vine otratum (i lot size)				height.
1				
2				
3				
4				Hydrophytic
5				Vegetation
	0	= Total Cove	r	Present? Yes No
50% of total cover:0	20% of	total cover:	0	
Remarks: (Include photo numbers here or on a separate s	heet.)			

Sampling Point: wwic004_u

Profile Desc	cription: (Describe t	o the dep	oth needed to docun	nent the i	ndicator	or confirn	n the absenc	e of indicators.)
Depth	Matrix		Redox	C Feature:	s			
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remarks
0-8	2.5 Y 4/4	100					SIL	_
8-16	2.5 Y 5/4	95	2.5 Y 5/8	5	С	M	SIL	
						· ——	-	_
							-	
								_
						•		
								_
1Typo: C-C	oncontration D-Donl	otion PM	=Reduced Matrix, MS	-Mackad	I Sand Gr	oine	² Location: I	PL=Pore Lining, M=Matrix.
Hydric Soil		ellon, Kivi	=Reduced Matrix, MS	= IVIASKEC	i Sanu Gi	allis.		cators for Problematic Hydric Soils ³ :
Histosol			Dark Surface	(\$7)				2 cm Muck (A10) (MLRA 147)
	oipedon (A2)		Polyvalue Be		ce (S8) (N	/II R Δ 147		Coast Prairie Redox (A16)
	stic (A3)		Thin Dark Su					(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye			, .,		Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Mat		,		_	(MLRA 136, 147)
	ıck (A10) (LRR N)		Redox Dark S		·6)			Very Shallow Dark Surface (TF12)
Depleted	d Below Dark Surface	(A11)	Depleted Dar	k Surface	(F7)			Other (Explain in Remarks)
	ark Surface (A12)		Redox Depre					
	lucky Mineral (S1) (L	RR N,	Iron-Mangane		es (F12) (LRR N,		
	A 147, 148)		MLRA 136				3.	
	Gleyed Matrix (S4)		Umbric Surfa					ndicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					vetland hydrology must be present,
	Matrix (S6)		Red Parent M	iateriai (F	21) (MLR	A 127, 14	/) u	inless disturbed or problematic.
	Layer (if observed):							
Type:								
Depth (in	ches):						Hydric So	oil Present? Yes No
Remarks:								
Non-hydric so	pil							



Photo 1 Upland data point wwic004_u facing north



Photo 2 Upland data point wwic004_u facing east

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

pplicant/Owner: Dominion state: NC Sampling Point: Wit P 018 £ was possible to the state of t	Project/Site: ACP	City/County: Wilson Sampling Date: <u>5/19/15</u>
Section Sect	Applicant/Owner: <u>Dominion</u>	State: NC Sampling Point; wwit P 018£ w
Local relief (concave, convex, none): Local relief (concave, convex, none): Loregion (LRR or MLRA): Let P Lat: 35. 6 9 00 D Long: -78. 105 9 D Datum: Wirs 89 or 105 0 Or 105 or 105 0 Or 1	Investigator(s): ESI (Roper, Turnbull	Section, Township, Range: <u>none</u>
re climatic / hydrologic conditions on the site typical for this time of year? Yes	Landform (hillslope, terrace, etc.): drainage	Local relief (concave, convex, none): LON LAVE Slope (%): 2-51,
re climatic / hydrologic conditions on the site typical for this time of year? Yes	Subregion (LRR or MLRA): LLPP Lat	: 35.6900 Long: -78,10596 Datum: WG 84
re Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No	0 10 1	
Remarks: No	Are climatic / hydrologic conditions on the site typical for this t	ime of year? Yes No (If no, explain in Remarks.)
Remarks: No	Are Vegetation, Soil, or Hydrology sig	nificantly disturbed? Are "Normal Circumstances" present? Yes Vo
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Wetland Hydrology Present? Wetland Hydrology Indicators: Wetland Hydrology Indicators: Wetland Hydrology Indicators: Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Surface Vater (A1) Surface Vater (A1) Hydrogen Sulfide Odor (C1) Saturation (A3) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Adjat Mat or Crust (B4) Iron Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Igurdation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No	Are Vegetation, Soil, or Hydrology nat	
Hydric Soil Present? Wetland Hydrology Present? Wetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Surface Water (Ar1) High Water Table (A2) Water Marks (B1) Secondary Indicators (minimum of two required: hydrology Indicators (minimum of two required: hydrology Indicators (minimum of one is required: check all that apply) Surface Water (Ar1) High Water Table (A2) Water Marks (B1) Seduration (A3) Water Marks (B1) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Iron Deposits (B5)	SUMMARY OF FINDINGS – Attach site map si	nowing sampling point locations, transects, important features, etc.
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply)	Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	within a Wetland? Yes No
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply)		
Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) High Water Table (A2) Marl Deposits (B15) (LRR U) Hydrogen Sulfide Odor (C1) Water Marks (B1) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Algal Mat or Crust (B4) Iron Deposits (B5) Other (Explain in Remarks) FAC-Neutral Test (D5) Water-Stained Leaves (B9) Field Observations: Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Iron Deposits (B5) Other (Explain in Remarks) FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U) Field Observations: Surface Water Present? Yes No Depth (inches): Depth (inches): Depth (inches): No Depth (inches): Saturation Present? Yes No Depth (inches): Iron Deposits (B7) Wetland Hydrology Present? Yes No Depth (inches): Iron Depth (inches): Sphagnum moss (D8) (LRR T, U)		
Surface Water (A1)		_ '
High Water Table (A2) Saturation (A3) Water Marks (B1) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table (A2) Marl Deposits (B15) (LRR U) Hydrogen Sulfide Odor (C1) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) In Muck Surface (C7) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U) Field Observations: Surface Water Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): In Wetland Hydrology Present? Yes No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Saturation (A3)		
Sediment Deposits (B2)	Saturation (A3)	
Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Yes No Depth (inches): Saturation Visible on Aerial Imagery (B7) Depth (inches): Saturation Present? Yes No Depth (inches): Depth (inches): Saturation Present? Yes No Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Yes No Depth (inches): > 2.0 Saturation Present? Yes No Depth (inches): > 2.0 Saturation Present? Yes No Depth (inches): > 2.0 Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	 	
Iron Deposits (B5) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U) Field Observations: Surface Water Present? Water Table Present? Yes No Depth (inches): >20 Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No Depth (inches): VA Water Table Present? Yes No Depth (inches): >20 Saturation Present? Yes No Depth (inches): 10 Saturation Present? Yes No Depth (inches): 10 Wetland Hydrology Present? Yes No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Yes No Depth (inches): > 2.0 Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches):	! —	·/
Surface Water Present? Yes No Depth (inches): NA Depth (inches): No Depth (inches): No Depth (inches): No Depth (inches): No Depth (inches): Wetland Hydrology Present? Yes No Depth (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Field Observations:	Δ1.
Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Surface Water Present? Yes NoDep	th (inches):
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		· / — · · · /
	(includes capillary fringe)	
Remarks:	Describe Necorded Data (Stream gauge, Monttoning Well, a	eriai priotos, previous irispections), ir available.
	Remarks:	

VEGETATION (Four Strata) -	- Use	scientific	names	of pla	ants.
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	Abacksto	Dominant	Indicator	Dominance Test weeksheets
Tree Stratum (Plot size: 30f4 x 30f4)		Species?		Dominance Test worksheet:
1 Pinus taeda	15	<u> </u>	FAC	Number of Dominant Species 'That Are OBL, FACW, or FAC: (A)
				That Are OBL, FACW, or FAC: (A)
2. Acer rubrum		<u> </u>	<u>FAC</u>	Total Number of Dominant
3.				Species Across All Strata: (B)
4				``
				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7				
8				Total % Cover of:Multiply by:
	25	= Total Cov		OBL species x 1 =
50% of total cover:1 Z		- rotal co	سے	FACW species x 2 =
50% of total cover: _ ' =	20% of	total cover	:	FAC species x3 =
Sapling/Shrub Stratum (Plot size: 30f+x30ff)				
1. Carpinus carollniana	15	<u> </u>	FAC	FACU species x 4 =
2				UPL species x 5 =
				Column Totals: (A) (B)
3				(v)
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1
				1 - Rapid Test for Hydrophytic Vegetation
7	-			2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.01
	15	= Total Co	ver	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 7, 5				Explain)
Herb Stratum (Plot size: 30ft x 30ft)	20700	i total cove	·	
Herb Stratum (Plot size: 2011 X 0071)	۵.	V	Enal	¹ Indicators of hydric soil and wetland hydrology must
1. Clethra alnifolia	<u> </u>		<u> FACW</u>	be present, unless disturbed or problematic.
2				Definitions of Four Vegetation Strata:
				_
3				Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6.				Sapling/Shrub - Woody plants, excluding vines, less
				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7				and the state ground than olde it (1 thy tam
8				Herb - All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				
				Woody vine - All woody vines greater than 3.28 ft in
11				height.
12				. 🕴
	<u> </u>	_ = Total Co	over	
50% of total cover: 2	، 20% ک	of total cove	er: 1	
Woody Vine Stratum (Plot size: 30ft x 30ft)			···-	
1. Vitis rotundifolia	سى	V	s n/	
	_ 		- F 140	.]
2. Smilax rotunditolia	5	y	FAL	
3.				
	-			• [
4				
5				- Hydrophytic
	10	_ = Total C	over	Vegetation
50% of total cover:		of total cov		Present? Yes No
		or total cov	er. —	-
Remarks: (if observed, list morphological adaptations be	elow).			
I .				

	ription: (Describe	to the dept	h needed to docur	nent the in	dicator	or confirm	the absence	of indicator	s.)	
Depth	Matrix Color (moist)			x Features	Y				D 1	ļ
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-8	101/23/2	700					SL			
B-20	2,5441	<u>80</u>	1048 M	20	<u> </u>	_ M_	<u> 5C</u>			
	-	·		-						
										
¹ Type: C=C	oncentration, D=Dep	letion, RM=	Reduced Matrix, M	S≃Masked	Sand Gra	ains.	² Location:	PL≃Pore Lir	ning, M=Matrix.	,
	Indicators: (Applic								atic Hydric Soi	s³:
☐ Histosol	(A1)		Polyvalue Be	elow Surfac	e (S8) (L	.RR S, T, U) 🔲 1 cm N	luck (A9) (LI	RR 0)	
	oipedon (A2)		Thin Dark Su	ırface (S9)	(LRR S,	T, U)	2 cm N	luck (A10) (I	_RR S)	
	stic (A3)		. Loamy Muck	-		l O)			8) (outside MLF	
	n Sulfide (A4)		Loamy Gley	•	-2)				in Soils (F19) (LF	
1 1	d Layers (A5)		Depleted Ma					-	oamy Soils (F20)
	Bodies (A6) (LRR P		Redox Dark				1 1 '	RA 153B)	A CTCO	
	icky Mineral (A7) (Li esence (A8) (LRR L		Depleted Da Redox Depre					arent Materia	Surface (TF12)	
P===	ick (A9) (LRR P, T)	"	Mari (F10) (1		"			Explain in R		
	d Below Dark Surfac	e (A11)	Depleted Oc		MLRA 1	51)	J. Other	Lybiani in i	cinains	
_	ark Surface (A12)	,	Iron-Mangar		-		T) ³ Indic	ators of hyd	rophytic vegetati	on and
Coast P	rairie Redox (A16) (I	MLRA 150A							gy must be pres	
	Mucky Mineral (S1) (I	LRR O, S)	Delta Ochric					ess disturbe	d or problematic.	
	Bleyed Matrix (S4)		Reduced Ve							
ı 💳	Redox (S5)		Piedmont FI							
	l Matrix (S6)	· - · · ·		Bright Loar	ny Soils ((F20) (MLR	A 149A, 153C	, 153D)		
	rface (S7) (LRR P, S Layer (if observed)									
1	Layer (ii observed)	•					1			
Type:										
Depth (in	cnes):						Hydric Soi	Present?	Yes	No
Remarks:										
ļ										
				•						
1										
								,		
1										
1										

Environmental Field Surveys Wetland Photo Page



Wetland data point wwip018f_w facing south.

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: ACP	City/County: Wilson Sampling Date: 5/19/15
Applicant/Owner: Dom'in ion	State: NC Sampling Point: WW17018_u
Investigator(s): ESI (Roper, Turnbull)	Section, Township, Range: NONE
Landform (hillslope, terrace, etc.): drainage	Local relief (concave, convex, none): Lon We Slope (%): 2-5%
Subregion (LRR or MLRA): LLL P U Lat: 35	. 69018 Long: 78,10593 Datum: W6384
Soil Map Unit Name: Kounoke loam	NWI classification: V H
Are climatic / hydrologic conditions on the site typical for this time of y	rear? Yes No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantl	y disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally p	roblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showin	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks:	Is the Sampled Area within a Wetland? Yes No
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Sediment Deposits (B2)	Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Codor (C1) Coheres along Living Roots (C3) Dry-Season Water Table (C2) Uced Iron (C4) Uction in Tilled Soils (C6) Ce (C7) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
Field Observations:	0/4
Surface Water Present? Yes No Depth (inche Water Table Present? Yes No Depth (inche Saturation Present? Yes No Depth (inche (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial ph	es): >20 Wetland Hydrology Present? Yes No
Describe Necorded Data (stream gauge, monitoring well, aeriai pri	otos, previous inspections), it available.
Remarks:	

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

110 4.... 0.

Tree Stratum (Plot size: 30ft x 30ft) 1. Pinus taeda 2. Liquidambar 6tyraciflua 3. Alex rubrum 4. 5. 6. 7. 8.	% Cover 2D ID ID		FAC FAC FAC	Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species x 1 =
50% of total cover: <u>2</u>	⊃ _{20% of}	total cover	:_පි_	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30ft x 30ft) 1. Liquidambar styraciflua 2. Alex rubrum 3.	10			FAC species
4	 			Prevalence Index = B/A = Hydrophytic Vegetation Indicators:
6				1 Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%
	20	= Total Co	ver	3 - Prevalence Index is ≤3.0¹
50% of total cover: 10		total cover	4.4	Problematic Hydrophytic Vegetation ¹ (Explain)
Herb Stratum (Plot size: 30ff x30ff)	5	Α Α	FACW FAC	¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata:
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
6				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8 9:				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10 11 12				Woody vine - All woody vines greater than 3.28 ft in height.
12.	10	= Total Co	ver	
50% of total cover: 50% of	20% o	f total cove	_	1
1. Smilax rotundifolia 2. Vitis rotundifolia	10	-	FAC	
3				
550% of total cover:	_	= Total Co		Hydrophytic Vegetation Present? Yes No No No No No No No No No No No No No
Remarks: (If observed, list morphological adaptations be		n total cove	# /	
Tromains. (ii ooselveu, list Nioi phological adaptations be	siowj.			

Profile Description	n: (Describe t	to the depth	needed to docur	nent the i	ndicator	or confirm	n the absence o	f indicators.)
Depth	Matrix			x Features	s		_	
	Color (moist)	<u>%</u>	Color (moist)	%	_Type ¹	Loc ²	<u>Texture</u>	Remarks
	YR 413	100		·			<u> </u>	
6-14 10	74R 5/16	100					<u> </u>	
14-20 10	74R 26	90 1	0425/5	10	\overline{D}	m	SCL	
	1			<u> </u>			<u> </u>	
			•					
·								
l							 .	
¹ Type: C=Concer	ntration. D≕Dep	letion. RM=R	teduced Matrix, M	- ——— S≕Masked	d Sand Gr	ains.	21 ocation: I	PL=Pore Lining, M=Matrix.
Hydric Soil Indic								for Problematic Hydric Soils ³ :
Histosol (A1)			Polyvalue Be			.RR S. T. 1		uck (A9) (LRR O)
Histic Epiped			Thin Dark S					uck (A10) (LRR S)
Black Histic (A3)		Loamy Muck			R O)		ed Vertic (F18) (outside MLRA 150A,B)
Hydrogen Su			Loamy Gley		(F2)			nt Floodplain Soils (F19) (LRR P, S, T)
Stratified Lay			Depleted Ma					lous Bright Loamy Soils (F20)
	es (A6) (LRR P		Redox Dark		•			A 153B)
	Mineral (A7) (LF		Depleted Da		` '			rent Material (TF2)
	ce (A8) (LRR U A9) (LRR P, T))	Mari (F10) (•	0)			nallow Dark Surface (TF12) Explain in Remarks)
_	ow Dark Surfac	e (A11)	Depleted Or	•	(MLRA 1	51)	Onlei (i	Explain in Nemara)
Thick Dark S		- (,	Iron-Mangar		-		', T) ³ Indica	ators of hydrophytic vegetation and
1 ===	Redox (A16) (I	WLRA 150A)						and hydrology must be present,
Sandy Muck	/ Mineral (S1) (I	LRR O, S)	Delta Ochrid	(F17) (M	LRA 151)			ess disturbed or problematic.
· = ·	d Matrix (S4)		Reduced Ve					
Sandy Redo			Piedmont F			-	•	4
Stripped Mat		N T IN		Bright Loa	my Soils	(F20) (ML	RA 149A, 153C,	, 153D)
Restrictive Layer	(S7) (LRR P, S					-		· · · · · · · · · · · · · · · · · · ·
1	r (II observed)	•						
Type:							1	5 10 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Depth (inches):					<u> </u>	Hydric Soil	Present? Yes No
Remarks:								
ļ								
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Environmental Field Surveys Wetland Photo Page



Upland data point wwip018_u facing north.

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: A CP	City/County: Wilson Sampling Date: 5/19/15
Applicant/Owner: Domin ion	State: NC Sampling Point: พพ i P D17 たい
Investigator(s): ESI (Roper, Turnbull)	Section, Township, Range: MONE
Landform (hillslope, terrace, etc.): drain a gl	Local relief (concave, convex, none): CONCAVE Slope (%): 2-51.
Subregion (LRR or MLRA): LLL P Lat: 35.	68900 Long: -78.10637 Datum: W6384
Soil Map Unit Name: State sandy loam, 0-	Local Tener (Collicave, Convex, None):
Are climatic / hydrologic conditions on the site typical for this time of y	year? 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	
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? YesNo	
Hydric Soil Present? YesNo	- Is the Sampled Area within a Wetland? Yes No
Wetland Hydrology Present? Yes No	- Within a Wetland? Tes V NO NO
Remarks:	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply	· · · · · · · · · · · · · · · · · · ·
Surface Water (A1) Link Water Table (A2) Aquatic Fauna (B	
High Water Table (A2) Saturation (A3) Hydrogen Sulfide	· · · · · · · · · · · · · · · ·
	e Odor (C1)
Sediment Deposits (B2) Presence of Red	
	uction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	
Iron Deposits (B5) Other (Explain in	
☐ Ipundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	.10
Surface Water Present? Yes No Depth (inch Water Table Present? Yes No Depth (inch	es):
Water Table Present? Yes No Depth (inch	es): \(\frac{120}{20} \) Wetland Hydrology Present? Yes \(\text{No.} \)
Saturation Present? Yes No Depth (inch (includes capillary fringe)	es): 320 Wetland Hydrology Present? Yes V No
Describe Recorded Data (stream gauge, monitoring well, aerial ph	otos, previous inspections), if available:
Davida	
Remarks:	
İ	
Į.	

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

01 - 01	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 + x 30 + 1)	% Cover	Species?	Status	Number of Dominant Species
1. Pinus taeda	15	<u> </u>	FAC	That Are OBL, FACW, or FAC: (A)
2. Liquidambar styraciflua	10	γ	FAC	
3. Liriodendron tulipitera	10	-y	FACU	Total Number of Dominant Species Across All Strata: 7 (B)
·····				Species Across All Strata:/ (B)
	·			Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 851/ (A/B)
6	·			Dunnal and a superior to the
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
	35	= Total Cov	er	OBL species x 1 =
50% of total cover: 17.	5 20% of	total cover	. 7	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30ff x 30ff)	2076 01	total cover.		FAC species x 3 =
Sapling/Snrub Stratum (Plot size: 3011 X 307)	10	V	- 44	FACU species x4 =
1. Liquidambar styraciflua			THC.	
2				UPL species x 5 =
3				Column Totals: (A) (B)
4				
				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1 Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				☐ 3 - Prevalence Index is ≤3.01
	10	= Total Cov	/ег	1 '
50% of total cover: 5	20% 0	f total cover	. 2	Problematic Hydrophytic Vegetation [†] (Explain)
Herb Stratum (Plot size: 30ff X 30f4)	20700	total cover		
Held Stratum (Plot size: OOT) X 5074	1 -	V	FACW	Indicators of hydric soil and wetland hydrology must
1. Clethra alnifolia	10			be present, unless disturbed or problematic.
2. Athyrium asplenoides	<u> </u>		FAC	Definitions of Four Vegetation Strata:
3				
4				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
				more in diameter at breast height (DBH), regardless of height.
5				
6				Sapling/Shrub - Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10.				
11		,		Woody vine – All woody vines greater than 3.28 ft in
			· ——	height.
12.				
		= Total Co		
50% of total cover: 7,		= Total Co of total cove		
Woody Vine Stratum (Plot size: 30ft x 30ft)			r: <u>3</u>	
Woody Vine Stratum (Plot size: 30ft x 30ft) 1. Vitis rotundifolia	<u>5</u> 20% d			
Woody Vine Stratum (Plot size: 30ft x 30ft)	<u>5</u> 20% d		r: <u>3</u>	
Woody Vine Stratum (Plot size: 30ft x 30ft) 1. Vitis rotundifolia	<u>5</u> 20% c		r: <u>3</u>	
Woody Vine Stratum (Plot size: 30ft x30ft) 1. Vitis rotundifolia 2.	<u>5</u> 20% c		r: <u>3</u>	
Woody Vine Stratum (Plot size: 30ft x30ft) 1. Vitis rotundifolia 2. 3.	<u>5</u> 20% c		r: <u>3</u>	
Woody Vine Stratum (Plot size: 30ft x30ft) 1. Vitis rotundifolia 2. 3.	<u>5</u> 20% c	y Y	FAC	Hydrophytic
Woody Vine Stratum (Plot size: 30ft x 30ft) 1. Vitis rotundifolia 2. 3. 4. 5.	5 20% c	of total cove	FAC	
Woody Vine Stratum (Plot size: 30ft x 30ft) 1. Vitis rotundifolia 2. 3. 4. 5. 50% of total cover: 2.	5 20% c	of total cove	FAC	Hydrophytic Vegetation
Woody Vine Stratum (Plot size: 30ft x 30ft) 1. Vitis rotundifolia 2. 3. 4. 5.	5 20% c	of total cove	FAC	Hydrophytic Vegetation
Woody Vine Stratum (Plot size: 30ft x 30ft) 1. Vitis rotundifolia 2. 3. 4. 5. 50% of total cover: 2.	5 20% c	of total cove	FAC	Hydrophytic Vegetation
Woody Vine Stratum (Plot size: 30ft x 30ft) 1. Vitis rotundifolia 2. 3. 4. 5. 50% of total cover: 2.	5 20% c	of total cove	FAC	Hydrophytic Vegetation
Woody Vine Stratum (Plot size: 30ft x 30ft) 1. Vitis rotundifolia 2. 3. 4. 5. 50% of total cover: 2.	5 20% c	of total cove	FAC	Hydrophytic Vegetation
Woody Vine Stratum (Plot size: 30ft x 30ft) 1. Vitis rotundifolia 2. 3. 4. 5. 50% of total cover: 2.	5 20% c	of total cove	FAC	Hydrophytic Vegetation
Woody Vine Stratum (Plot size: 30ft x 30ft) 1. Vitis rotundifolia 2. 3. 4. 5. 50% of total cover: 2.	5 20% c	of total cove	FAC	Hydrophytic Vegetation
Woody Vine Stratum (Plot size: 30ft x 30ft) 1. Vitis rotundifolia 2. 3. 4. 5. 50% of total cover: 2.	5 20% c	of total cove	FAC	Hydrophytic Vegetation

Profile Desc	ription: (Describe	to the dep	th needed to docun	nent the ir	ndicator	or confirm	the absence o	of indicators.)
Depth	Matrix			k Features				
(inches) D-Z	Color (moist)	%_	Color (moist)	<u>%</u>	Type ¹	_Loc ² _	Texture	Remarks
2-B	2.574/2	100	<u></u>					
·)-1/0 EL				<u>SL</u> -	
8-20	2.5 Y42	75	104R 5/6	_5_	_ <u>c</u> _	<u>PL</u>	<u>SL</u> .	
			10 YR416	<u>ZD</u>	_ <u>C_</u>	<u> </u>		
		- 						
¹Type: C=Co	oncentration, D=Dep	letion, RM:	=Reduced Matrix, MS	=Masked	Sand Gr	ains.	² Location: F	PL=Pore Lining, M=Matrix.
Hydric Soil I	ndicators: (Applic	able to all	LRRs, unless other	wise note	d.)		Indicators f	or Problematic Hydric Soils ³ :
Histosol			Polyvalue Be				. —	uck (A9) (LRR O)
	ipedon (A2)		Thin Dark Su	- •	-			uck (A10) (LRR S)
Black His	stic (A3) n Sulfide (A4)		Loamy Mucky Loamy Gleye			(0)		d Vertic (F18) (outside MLRA 150A,B) nt Floodplain Soils (F19) (LRR P, S, T)
. ===	Layers (A5)		Depleted Ma		-2)			ous Bright Loamy Soils (F20)
	Bodies (A6) (LRR P	, T, U)	Redox Dark		6)			A 153B)
	cky Mineral (A7) (LI						T-1	rent Material (TF2)
	esence (A8) (LRR L	J)	Redox Depre		B)	,		nallow Dark Surface (TF12)
	ck (A9) (LRR P, T) I Below Dark Surfac	e (A11)	☐ Marl (F10) (L☐ Depleted Ocl		(MIRA 1	54)	Uther (E	Explain in Remarks)
t	ark Surface (A12)	.5 (****)	Iron-Mangan		-	-	T) ³ Indica	ators of hydrophytic vegetation and
Coast Pt	airie Redox (A16) (I							and hydrology must be present,
	lucky Mineral (S1) (LRR O, S)	Delta Ochric					ss disturbed or problematic.
 	ileyed Matrix (S4)		Reduced Ver					
	ledox (S5) Matrix (S6)		Piedmont Flo				19A) A 149A, 153C,	1530)
	rface (S7) (LRR P,	S, T, U)		ziigiii coai	11, 00110	1 20) (21)	.A 140A, 1000,	1300)
	ayer (if observed)							
Туре:								/
Depth (in	ches):						Hydric Soil	Present? Yes V No
Remarks:								
								,
								!
]								
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Wetland data point wwip017f_w facing south.

	City/County: Wilson Sampling Date: 5/19/15
Applicant/Owner: Dominicon	State: NC Sampling Point: www.P017_U
Investigator(s): ESI (Roder, Turnbull)	Section, Township, Range: None
Landform (hillslope, terrace, etc.): drainage	Local relief (concave, convex, none): <u>LON LOVE</u> Slope (%): <u>2-51/1</u> <u>168909</u> Long: <u>-78 10632</u> patum: <u>W6584</u>
Subregion (LRR or MLRA): LRR P Lat: 35.	68909 Long: - 78 106 32 Datum: W65 84
Soil Map Unit Name: State loumy sand, 0-37	, Slopes NWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time of year	
Are Vegetation, Soil, or Hydrology significantly	
Are Vegetation, Soil, or Hydrology naturally pro	
	sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	
Hydric Soil Present? Yes No	Is the Sampled Area within a Wetland? Yes No
Wetland Hydrology Present? Yes No	within a Wetland? Yes No V
Remarks:	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	
Surface Water (A1) Aquatic Fauna (B1)	
High Water Table (A2) Mari Deposits (B18)	
Saturation (A3) Hydrogen Sulfide (of the state of t
Water Marks (B1) Qxidized Rhizosph	neres along Living Roots (C3) 🔲 Dry-Season Water Table (C2)
Sediment Deposits (B2)	
1 	ction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Iron Deposits (B5) Thin Muck Surface Other (Explain in F	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
☐ Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No Depth (inches	s): <u>NH</u>
Water Table Present? Yes No _V_ Depth (inches	s):
Saturation Present? Yes No Depth (inches	s): 320 Wetland Hydrology Present? Yes No 🗸
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial pho-	tos, previous inspections), if available:
Remarks:	

Sampling Point: wwip017_u.

,	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft x 30 ft)		Species?		
1. Pinus tarda	15	Y	FAC	Number of Dominant Species That Are OBL_FACW_or FAC: (A)
2. Liquidambar styracifloa			FAC	That Are OBL, FACW, or FAC: (A)
	15	<u> </u>	FITC	Total Number of Dominant
3				Species Across All Strata: (B)
4				
5				Percent of Dominant Species
				That Are OBL, FACW, or FAC: 100 (A/B)
6				Prevalence Index worksheet:
7				1
8				Total % Cover of:Multiply by:
	30	= Total Cov	er er	OBL species x1 =
50% of total cover: 15	20% 0	f total cover		FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30ft x 30ft)		. (0.0. 00.0)		FAC species x 3 =
1. Aralia spinosa	5	V	EAC	FACU species x 4 =
			FAC	
2				UPL species x 5 =
3				Column Totals: (A) (B)
4				
				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				
		= Total Co	·or	The state of the s
50% of total cover: 23		- Total Co	ve:	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover:	<u>- </u>	t total cover	:	
Herb Stratum (Plot size: 30ft x30ft)				¹ Indicators of hydric soil and wetland hydrology must
1. none				be present, unless disturbed or problematic.
2				Definitions of Four Vegetation Strata:
				Dominations of Four Vegetation Strata.
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
				,
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12				.
, -i,	0	7.1.10.		- }
		_= Total Co		
50% of total cover:	20% (of total cove	r:	-
Woody Vine Stratum (Plot size: 30ft x 30ft)				
1. Lonicera japonica	5	У	FAC	
,				-
2				-
3	-			<u>-</u>
4				_
5				Mordon hout-
		_ = Total Co		- Hydrophytic Vegetation
				Present? Yes No
50% of total cover: 2	20%	of total cove	er: \	- 100
Remarks: (If observed, list morphological adaptations be	low).		-	

Profile Desc	cription: (Describe t	o the depth	needed to docu	ment the i	ndicator o	or confirm	the absence of inc	licators.)	J
Depth	Matrix		Red	ox Features	s,				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	_Loc ² _	Texture	Remarks	
0-3	101K312	100					5	,	
3-10	2.545/4	100					_5_		
10-20	2.546/6	100							
									
			····						
ļ 									
	<u> </u>								
¹ Type: C=C	oncentration, D=Depl	etion, RM=R	educed Matrix, N	1S=Masked	Sand Gra	ains.	² Location: PL=F	ore Lining, M=Matri	ix.
Hydric Soil	Indicators: (Applica	able to all LF	RRs, unless oth	erwise note	ed.)		Indicators for P	roblematic Hydric	Soils ³ :
. Histosol	(A1)		Polyvalue E) 🛄 1 cm Muck (A9) (LRR O)	
	pipedon (A2)		Thin Dark S	urface (S9)) (LRR S,	Τ, Մ)		A10) (LRR S)	,
• =	istic (A3)		Loamy Muc			. O)		rtic (F18) (outside l	
	en Sulfide (A4)		Loamy Gley	-	(F2)			oodplain Soils (F19)	
	d Layers (A5) Bodies (A6) (LRR P,	T 11)	Depleted M Redox Darl		-6)			Bright Loamy Soils ((F20)
	icky Mineral (A7) (LR		Depleted D	•	•		(MLRA 15	зы) Material (TF2)	
	resence (A8) (LRR U		Redox Dep					v Dark Surface (TF1	121
	ıck (A9) (LRR P, T)	•	Marl (F10)		-,			in in Remarks)	,
	d Below Dark Surface	e (A11)	Depleted O		(MLRA 1	51)	, ,	•	
	ark Surface (A12)		Iron-Manga				•	of hydrophytic vege	
	rairie Redox (A16) (N					, U)		nydrology must be p	
	Mucky Mineral (S1) (L Gleyed Matrix (S4)	.RR 0, S)	Delta Ochri			OA 450D)		sturbed or problema	atic.
	Redox (S5)		Reduced V Piedmont F						
, ,===,	i Matrix (S6)								
1 1 Outpool	i iviality (20)		⊥ ⊢ Anomaious	Bright Loa	my Soils (120) (MLR	A 149A. 153C. 153	□)}	
	rface (S7) (LRR P, S	i, T, U)	Anomalous	Bright Loa	my Soils (F20) (MLR	A 149A, 153C, 153	נט	
Dark Su			Anomalous	Bright Loa	my Solls (F20) (MILR.	A 149A, 153C, 153		
Dark Su	rface (S7) (LRR P, S		Anomalous	Bright Loa	my Solls (F20) (MILR.	A 149A, 153C, 153	D}	
Dark Su	rface (S7) (LRR P, S Layer (if observed):		Anomalous	Bright Loa	my Solls (F20) (MLR.	Hydric Soil Pres		No V
Dark Su Restrictive Type:	rface (S7) (LRR P, S Layer (if observed):			Bright Loa	my Solls (F20) (MLR			No
Dark Su Restrictive Type: Depth (in	rface (S7) (LRR P, S Layer (if observed):		Anomalous	Bright Loa	my Solis (F20) (MLR			No V
Dark Su Restrictive Type: Depth (in	rface (S7) (LRR P, S Layer (if observed):		Anomalous	Bright Loa	my Solis (F20) (MILR			No V
Dark Su Restrictive Type: Depth (in	rface (S7) (LRR P, S Layer (if observed):		Anomalous	Bright Loa	my Solis (F20) (MILR			No V
Dark Su Restrictive Type: Depth (in	rface (S7) (LRR P, S Layer (if observed):		Anomalous	Bright Loa	my Solis (F20) (MILR.			No
Dark Su Restrictive Type: Depth (in	rface (S7) (LRR P, S Layer (if observed):			Bright Loa	my Solis (+20) (Milk			No V
Dark Su Restrictive Type: Depth (in	rface (S7) (LRR P, S Layer (if observed):			Bright Loa	my Solls (+20) (MILR			No V
Dark Su Restrictive Type: Depth (in	rface (S7) (LRR P, S Layer (if observed):			Bright Loa	my Solls (+20) (MILR			No V
Dark Su Restrictive Type: Depth (in	rface (S7) (LRR P, S Layer (if observed):			Bright Loa	my Solls (+20) (MILR			No V
Dark Su Restrictive Type: Depth (in	rface (S7) (LRR P, S Layer (if observed):			Bright Loa	my Solls (+20) (Milk			No V
Dark Su Restrictive Type: Depth (in	rface (S7) (LRR P, S Layer (if observed):		Anomalous	Bright Loa	my Solls (+20) (MILR			No
Dark Su Restrictive Type: Depth (in	rface (S7) (LRR P, S Layer (if observed):			Bright Loa	my Solls (F20) (MILR			No
Dark Su Restrictive Type: Depth (in	rface (S7) (LRR P, S Layer (if observed):		Anomalous	Bright Loa	my Solls (+20) (MILR.			No V
Dark Su Restrictive Type: Depth (in	rface (S7) (LRR P, S Layer (if observed):		Anomalous	Bright Loa	my Solls (+20) (MILR			No V
Dark Su Restrictive Type: Depth (in	rface (S7) (LRR P, S Layer (if observed):		Anomalous	Bright Loa	my Solls (+20) (Milk			No V
Dark Su Restrictive Type: Depth (in	rface (S7) (LRR P, S Layer (if observed):			Bright Loa	my Solls (+20) (MILR			No
Dark Su Restrictive Type: Depth (in	rface (S7) (LRR P, S Layer (if observed):		Anomalous	Bright Loa	my Solls (+20) (MILR			No
Dark Su Restrictive Type: Depth (in	rface (S7) (LRR P, S Layer (if observed):		Anomalous	Bright Loa	my Solls (+20) (MILR			No V
Dark Su Restrictive Type: Depth (in	rface (S7) (LRR P, S Layer (if observed):			Bright Loa	my Solls (+20) (MILR			No V
Dark Su Restrictive Type: Depth (in	rface (S7) (LRR P, S Layer (if observed):			Bright Loa	my Solls (+20) (MILR			No V
Dark Su Restrictive Type: Depth (in	rface (S7) (LRR P, S Layer (if observed):			Bright Loa	my Solls (+20) (MILR			No
Dark Su Restrictive Type: Depth (in	rface (S7) (LRR P, S Layer (if observed):			Bright Loa	my Solls (+20) (MILR			No V



Upland data point wwip017_u facing north.

Project/Site: ACP	City/County: Wilson Sampling Date: 5/13/15
Applicant/Owner: Dominion	State: NC Sampling Point: wwip 016f-w
Investigator(s): ESI (Roper, Markham	Section, Township, Range: VONE
Landform (hillstone terrace etc.):	Local relief (concave, convey, none): (600/ ANP, Slone (64): 3-51
Subregion (LRR or MLRA): LRR P 1 Lat: 35	108650 1000-78, 10760 Datum:W/584
Soil Map Unit Name: Tatum 10am, 2-61.	168650 Long: -78.10760 Datum: W6584 Slopes NWI classification: PFO
Are climatic / hydrologic conditions on the site typical for this time of	
Are Vegetation, Soil, or Hydrology significant	ly disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally p	
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No	
Wetland Hydrology Present? Yes No	- Within a Weddild?
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required: check all that appl	
Surface Water (A1) High Water Table (A2) Aquatic Fauna (II Mart Deposits (B	
Saturation (A3) Hydrogen Sulfide	
[]	pheres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Rec	· · · · · · · · · · · · · · · · · · ·
Drift Deposits (B3)	uction in Tilled Soils (C6) 🔲 Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	
Iron Deposits (B5) University of Assistances (B7)	
Injundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)	☐ FAC-Neutral Test (D5) ☐ Sphagnum moss (D8) (LRR T, U)
Field Observations:	Christian moss (50) (ERR 1, 0)
Surface Water Present? Yes No Depth (inch	ies): NA
Surface Water Present? Yes No Depth (inchive the control of the contro	ies): >20
Saturation Present? Yes No Depth (includes capillary fringe)	nes): <u>Surface</u> Wetland Hydrology Present? Yes V No
Describe Recorded Data (stream gauge, monitoring well, aerial ph	otos, previous inspections), if available:
Remarks:	
portions of wetland inuna	dated
•	

VEGETATION ((Four Strat	a) – Use	scientific	names o	of plant	s
	in our origin	u, ccc	0010110110	TIGITION (21 PIGIT	•

VEGETATION (Four Strata) — Ose scientific hai	nes of his	สมเจ.		Sampling Point:
0.	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30ft x 30ft)		Species?		
1. Pinus taeda		-		Number of Dominant Species
	10		FAC	That Are OBL, FACW, or FAC:
2. Quercos nigra	OI.	N	FAC	
3. Ilex opaca	1D	\overline{N}	FAC	Total Number of Dominant Species Across All Strata: (B)
				Species Across All Strata: (B)
4. ALEr rubrum	15	7	FAC	
5. Carpinus caroliniana		V	FAC	Percent of Dominant Species
1.6			1110	That Are OBL, FACW, or FAC: 100 (A/B)
6				
7.				Prevalence index worksheet:
				Total % Cover of: Multiply by:
8.				
	55	= Total Cov	/er	OBL species x 1 =
50% of total cover: 22.	62000		,	FACW species x 2 =
20% of total coved:	20% of	total cover	: _ 1 1	
Sapling/Shrub Stratum (Plot size: 30ff x 30ff)				FAC species x 3 =
1. ILEX OPALA	10	V	EM.	FACU species x 4 =
			F 10 m 11	UPL species x 5 =
2. Liriodonaron tulisifera	_5_		FACU	
3. Magnolia grandiflota	1	N	FAL	Column Totals: (A) (B)
S. I record to the state of the			A 2 Count	, , , , , , , , , , , , , , , , , , , ,
4				Prevalence Index = B/A =
5				
				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7.				
				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.01
	16	= Total Co	ver	1 <u>—</u>
man, A	20% of		3.7	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover:	20% of	total cove	: <u> </u>	
Herb Stratum (Plot size: 30ft x 30ft)				Indicators of hydric and wallend hydroless was
1. Vitis rotundifolia	\$ 2	V	FAC	¹Indicators of hydric soil and wetland hydrology must
	. <u>- 1</u> 2			be present, unless disturbed or problematic.
2. Athyrium asplenioides	5	_/	FAC	Definitions of Four Vegetation Strata:
3. Clethra alnifolia		$\overline{\nabla}$	FACW	
· · · · · · · · · · · · · · · · · · ·				Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4.				more in diameter at breast height (DBH), regardless of
				height.
5				
6				Sapling/Shrub - Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tali.
				The state of the s
8				Herb – All herbaceous (non-woody) plants, regardless
9.				of size, and woody plants less than 3.28 ft tall.
				or size, and modely plante loss than olze it tall.
10				Woody vine - All woody vines greater than 3.28 ft in
11,				height.
		-		neight.
12.	-			
1	20	= Total Co	over	
50% -544-4	~	= Total Co		
50% of total cover:	~	= Total Co		
	~			
Woody Vine Stratum (Plot size: 35f+x30f+)	20% o		er: <u> </u>	
	~			
Woody Vine Stratum (Plot size: 35f+x30f+)	20% o		er: <u> </u>	
Woody Vine Stratum (Plot size: 30ftx30ft) 1. Smilax rotundifolia 2.	20% o	f total cove	er: <u> </u>	
Woody Vine Stratum (Plot size: 35f+x30f+)	20% o	f total cove	er: <u> </u>	
Woody Vine Stratum (Plot size: 30ftx30ft) 1. Smilax rotundifolia 2. 3.	20% o	f total cove	er: <u> </u>	
Woody Vine Stratum (Plot size: 30ftx30ft) 1. Smilax rotundifolia 2. 3. 4.	20% o	f total cove	er: <u> </u>	
Woody Vine Stratum (Plot size: 30ftx30ft) 1. Smilax rotundifolia 2. 3.	20% 0	f total cove	FAC	Hydrophytic
Woody Vine Stratum (Plot size: 30ftx30ft) 1. Smilax rotundifolia 2. 3. 4.	20% o	f total cove	FAC	Hydrophytic Vegetation
Woody Vine Stratum (Plot size: 30ftx30ft) 1. Smilax rotundifolia 2. 3. 4. 5.	20% o	f total cove	FAC	
Woody Vine Stratum (Plot size: 30ftx30ft) 1. Smilax rotundifolia 2. 3. 4. 5. 50% of total cover:	20% o	f total cove	FAC	Vegetation
Woody Vine Stratum (Plot size: 30ftx30ft) 1. Smilax rotundifolia 2. 3. 4. 5.	20% o	f total cove	FAC	Vegetation
Woody Vine Stratum (Plot size: 30ftx30ft) 1. Smilax rotundifolia 2. 3. 4. 5. 50% of total cover:	20% o	f total cove	FAC	Vegetation
Woody Vine Stratum (Plot size: 30ftx30ft) 1. Smilax rotundifolia 2. 3. 4. 5. 50% of total cover:	20% o	f total cove	FAC	Vegetation
Woody Vine Stratum (Plot size: 30ftx30ft) 1. Smilax rotundifolia 2. 3. 4. 5. 50% of total cover:	20% o	f total cove	FAC	Vegetation
Woody Vine Stratum (Plot size: 30ftx30ft) 1. Smilax rotundifolia 2. 3. 4. 5. 50% of total cover:	20% o	f total cove	FAC	Vegetation
Woody Vine Stratum (Plot size: 30ftx30ft) 1. Smilax rotundifolia 2. 3. 4. 5. 50% of total cover:	20% o	f total cove	FAC	Vegetation
Woody Vine Stratum (Plot size: 30ftx30ft) 1. Smilax rotundifolia 2. 3. 4. 5. 50% of total cover:	20% o	f total cove	FAC	Vegetation
Woody Vine Stratum (Plot size: 30ftx30ft) 1. Smilax rotundifolia 2. 3. 4. 5. 50% of total cover:	20% o	f total cove	FAC	Vegetation

Profile Desc	cription: (Describe t	o the dept	h needed to docun	nent the i	ndicator	or confirm	the absence of in	dicators.)
Depth	Matrix Color (moiet)	 -		x Features		_Loc²	Taylers	Oom - de-
(inches)	Color (moist)	<u> </u>	Color (moist)	%	Type,	LOC-	Texture	Remarks
0-6	1071	E .	10YR 5/3	·20				
10-17	10/18/12	<u> </u>		<u> </u>	_(_	<u>M</u>		
	0 - 151		10/12 5/2		_ `	<u></u>		
14-50	2.5 Y 5/4	<u> </u>	2.57 4/1	30	<u> D</u>	\underline{M}	<u> </u>	
¹ Type: C=C	oncentration, D=Dep	etion, RM=	Reduced Matrix, MS	- S=Masked	d Sand Gr	ains.	² Location: PL=	Pore Lining, M=Matrix.
	Indicators: (Applica							Problematic Hydric Soils³:
☐ Histosol	(A1)		Polyvalue Be	low Surfa	ce (S8) (L	.RR S, T, L	J) 🔲 1 cm Muck	(A9) (LRR O)
	pipedon (A2)		Thin Dark Su					(A10) (LRR S)
	istic (A3)		Loamy Muck			R O)		ertic (F18) (outside MLRA 150A,B)
1	en Sulfide (A4) d Layers (A5)		Løamy Gleye Depleted Ma		(F2)		1 1	loodplain Soils (F19) (LRR P, S, T) Bright Loamy Soils (F20)
	: Bodies (A6) (LRR P	. T. U)	Redox Dark		- 6)		(MLRA 1	
	ucky Mineral (A7) (LF		Depleted Da	•			1 1 '	Material (TF2)
	resence (A8) (LRR U)	Redox Depre		8)			w Dark Surface (TF12)
	uck (A9) (LRR P, T)		Marl (F10) (L				U Other (Exp	lain in Remarks)
1 = '	d Below Dark Surfac	e (A11)	Depleted Oc		-		T) 3lmdtaataa	
	ark Surface (A12) Prairie Redox (A16) (I	VILRA 1504	☐ Iron-Mangan Umbric Surfa					s of hydrophytic vegetation and hydrology must be present,
	Mucky Mineral (S1) (I		Delta Ochric		•	, •,		disturbed or problematic.
	Gleyed Matrix (S4)	•	Reduced Ve			50A, 150B)		•
	Redox (S5)		Piedmont Fle	-		-	•	
	d Matrix (S6)		Anomalous I	Bright Loa	ımy Soils	(F20) (MLF	RA 149A, 153C, 15	BD)
	urface (S7) (LRR P, S Layer (if observed):							
Type:								_
1 **	nches):						Hydric Soil Pre	sent? Yes No
Remarks:	101103).						Tiyane oon Fie	Seitt: 165 v 100
Tromains.								
			•					
İ								



Wetland data point wwip016f_w facing southwest.

Project/Site: ACP City	y/County: Wilson Sampling Date: 5/13/15
Applicant/Owner: Pominion	State: NC Sampling Point: Wwip Olb - u
Investigator(s): ESI (Roper, Markham) se	ction, Township, Range: vone
Landform (hillslope, terrace, etc.):	cal relief (concave, convex, none): <u>LONCAVE</u> Slope (%): <u>2-5/</u>
	8661 Long: -78.10757 Datum:W6584
Soil Map Unit Name: Tatum loam, 2-6% SI	
Are climatic / hydrotogic conditions on the site typical for this time of year?	
Are Vegetation, Soil, or Hydrology significantly dis	
Are Vegetation, Soii, or Hydrology naturally proble	
SUMMARY OF FINDINGS – Attach site map showing s	ampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	Is the Sampled Area
Hydric Soil Present? Yes No	within a Wetland? Yes No
Wetland Hydrology Present? Yes No	within a wedand?
Remarks:	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B13)	☐ Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15) (
Saturation (A3) Hydrogen Sulfide Od	
Water Marks (B1) Sediment Deposits (B2) Oxidized Rhizosphere Presence of Reduced	es along Living Roots (C3)
Drift Deposits (B3) Recent Iron Reduction	· · · · · · · · · · · · · · · · · · ·
Algal Mat or Crust (B4) Thin Muck Surface (C	
Iron Deposits (B5) Other (Explain in Rer	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	<u>NA</u>
Water Table Present? Yes No Depth (inches):	220
Saturation Present? Yes No Depth (inches):	>20 Wetland Hydrology Present? Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos	previous inspections) if available:
and the second s	, , , , , , , , , , , , , , , , , , , ,
Remarks:	

VEGETATION (Four Strata) - Use scientific names of plant
--

	•	anto.		Sampling Point:i
~ C: ~ C:	Absolute	Dominan	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30ftx30ft)			Status	1
	70 0010.	1		Number of Dominant Species
1. Prous taeda		N	FHC	That Are OBL, FACW, or FAC: (A)
2. Liquidambar styraciflua	15	Y	FAC	
		$\overline{}$		Total Number of Dominant
3. Liriodendron tulipitera	15	`/	FACU	Species Across All Strata: (B)
4. Acer rubrum	10	V	FAC	
				Percent of Dominant Species (2.21)
5. Ilex opaca	5	N	FAC	That Are OBL, FACW, or FAC: 831/ (A/B)
^				THAT ARE OBE, PACTY, OF PAC (A/B)
6				
7				Prevalence Index worksheet:
				Total % Cover of: Multiply by:
8.				
	E (7)	= Total Co		OBL species x 1 =
l'i a				
50% of total cover: 25	20% o	total cove	r: 10	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30ft x 30ft)	<u>-</u>			FAC species x 3 =
	*15%		matte (A	
1. Ilex opaca	10	У	FACI	FACU species x 4 =
			,	UPL species x 5 =
2			- 1	
				Column Totals: (A) (B)
3				
4				Provolence Index = R/A =
				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				
				Rapid Test for Hydrophytic Vegetation
7.				2 - Dominance Test is >50%
8				l ====
0				3 - Prevalence Index is ≤3.01
	(O	= Total Co	over	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:				Problematic Hydrophytic vegetation (Explain)
50% of total cover:	20% 0	total cove	er:	
<u>Herb Stratum</u> (Plot size: <u>30升 x 30升</u>)				1
1. Clethra alnifolia	-7		Chail	Indicators of hydric soil and wetland hydrology must
1. Clethra alnifolia		7	_ <u>rha</u> w	be present, unless disturbed or problematic.
		ř.		
2				Definitions of Four Vegetation Strata:
3.				
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
				more in diameter of broadt beight (DDLI) regardians of
**,				I more in diameter at breast neight (DDH), regardless of T
4				more in diameter at breast height (DBH), regardless of height.
5				height.
5				height.
5 6				height. Sapling/Shrub – Woody plants, excluding vines, less
5				height.
5				height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
5				height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless
5				height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
5				height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
5				height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
5				height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
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5				height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
5			over	height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
5			over	height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
5			over	height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
5			over	height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
5			over	height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
5			over	height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
5			over	height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
5	2 20%	= Total Co	over	height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
5	2 20%	= Total Co	over	height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
5	2 20%	= Total C	over	height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
5	2 20%	= Total C	over	height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
5	20%	= Total C	over	height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
5	20%	= Total Co	over er:O. 4	height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic
5	2 20%	= Total Cov	over er:O. 4	height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic
5	2 20%	= Total Co	over er:O. 4	height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height.
5	2 20%	= Total Cov	over er:O. 4	height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic
5	2 20%	= Total Cov	over er:O. 4	height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic
5	2 20%	= Total Cov	over er:O. 4	height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic
5	2 20%	= Total Cov	over er:O. 4	height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic
5	2 20%	= Total Cov	over er:O. 4	height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic
5	2 20%	= Total Cov	over er:O. 4	height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic
5	2 20%	= Total Cov	over er:O. 4	height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic
5	2 20%	= Total Cov	over er:O. 4	height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic
5	2 20%	= Total Cov	over er:O. 4	height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic

Profile Desc	ription: (Describe	to the depth	needed to docum	ent the i	ndicator	or confirm	the absence			***************************************
Depth (inches)	Matrix Color (moist)	 _	Redox Color (moist)	Feature: %	s Type¹	_Loc²	Texture	-	Remarks	
0-4	10 \ R2/1	- <u>~~</u> -	Color (moist)	70	_туре	LUC	/		<u>cemarks</u>	
4-14	10484/2	100		-]			
14-20	2.375/4	- <u>100</u> -		-				gravel	pies	en c
11 20	210 / /1									
									.,,	
	oncentration, D=Der Indicators: (Applic					ains.		PL=Pore Lining		
Histosol		sable to all L	Polyvalue Bel		•	RRSTII		for Problemati Vluck (A9) (LRR	•	ous:
	pipedon (A2)		Thin Dark Su					viuck (A3) (LRF Viuck (A10) (LRF		
Black Hi			Loamy Mucky			(O)	Reduc	ed Vertic (F18)	(outside M	
	n Sulfide (A4) d Layers (A5)		Loamy Gleye Depleted Mat		(F2)			ont Floodplain S		
	Bodies (A6) (LRR F	P, T, U)	Redox Dark S		- 6)			alous Bright Loa RA 153B)	my Solis (F	20)
	icky Mineral (A7) (L		Depleted Dar	k Surface	(F7)		☐ Red F	arent Material (1		
	esence (A8) (LRR t		Redox Depre		8)			Shallow Dark Su)
} pre-my	ick (A9) (LRR P, T) d Below Dark Surfac		Marl (F10) (L Depleted Oct		(MLRA 1	51)	L Other	(Explain in Rem	arks)	
	ark Surface (A12)	(,	Iron-Mangan				T) ³ Indi	cators of hydrop	hytic vegeta	ation and
	rairie Redox (A16) (', U)		tiand hydrology		
	Mucky Mineral (S1) (Bleyed Matrix (S4)	(LRR O, S)	Delta Ochric Reduced Ver			OA 150B)	un	less disturbed or	· problemat	ic.
	Redox (S5)		Piedmont Flo			-	9A)			
, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Matrix (S6)		Anomalous B					C, 153D)		
	rface (S7) (LRR P, Layer (if observed		••				1		-	
Type:	Layer (II observed)-								,
1	ches):						Hydric Soi	il Present? Y	es	No V
Remarks:							1,			
1										



Upland data point wwip016_u facing northeast.

Project/Site: ACP City/County: Wilson Sampling Date: 51/2/13
Applicant/Owner: Down on State: NC Sampling Point: Www.p 015f.
Investigator(s): EST (Roper, Markham) Section, Township, Range: None.
Landform (hillslope, terrace, etc.): <u>depression</u> Local relief (concave, convex, none): <u>Concave</u> Slope (%): <u>b-3</u>
Subregion (LRR or MLRA): LFFP Lat: 35, 168438 Long: 78, 11042 Datum: W638 Soil Map Unit Name: COXVIVE SONGE 10000 NWI classification: PFO
Soil Map Unit Name: COXVINE Sandy 10000 NWI classification: PFO
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturbed?
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc
Hydrophytic Vegetation Present? Yes No Is the Sampled Assa.
is the Sampled Area /
Hydric Soil Present? Yes No within a Wetland? Yes No No
Remarks:
HYDROLOGY
Wetland Hydrology Indicators: Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B13) Sparsely Vegetated Concave Surface (B8)
☐ High Water Table (A2) ☐ Marl Deposits (B15) (LRR U) ☐ Drainage Patterns (B10)
Saturation (A3) Hydrogen Sulfide Odor (C1) Moss Trim Lines (B16)
☐ Water Marks (B1) ☐ Oxidized Rhizospheres along Living Roots (C3) ☐ Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Reduced Iron (C4) Crayfish Burrows (C8)
Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface (C7) Geomorphic Position (D2) Char (Cyplain in Remarks)
☐ Iron Deposits (B5) ☐ Other (Explain in Remarks) ☐ Shallow Aquitard (D3) ☐ Inundation Visible on Aerial Imagery (B7) ☐ FAC-Neutral Test (D5)
Water-Stained Leaves (B9) Sphagnum moss (D8) (LRR T, U)
Field Observations:
Surface Water Present? YesNo Depth (inches):NA
Water Table Present? Yes No Depth (inches): 9
Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Describe Recorded Data (stream gauge, monitoring well, aerial priotos, previous inspections), ir available:
Remarks:
TOTAL TO

- 2011 3-61		Dominant		Dominance Test worksheet:	
Tree Stratum (Plot size: 30ft x 30ft)		Species?		Number of Dominant Species	
1. Pinus taeda	36	<u></u>	FAC	That Are OBL, FACW, or FAC:	(A)
2. Acer rubrum	15		FAL	Total Number of Dominant	
3				l ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	(B)
4					`
5.				Percent of Dominant Species That Are OBL, FACW, or FAC:	(A/B)
6				Mar Ale OBL, PACVV, OF PAC.	(~0)
7.				Prevalence Index worksheet:	
				Total % Cover of: Multiply by:	_
8.	46	= Total Cov		OBL species x 1 =	
77	=	= Total Cov	er O	FACW species x 2 =	
50% of total cover: 22	<u>™</u> 20% of	total cover:		FAC species x 3 =	
Sapling/Shrub Stratum (Plot size: 30f+ x 30f+)			-00	FACU species x 4 =	
1. Acer rubrum	10		FAC.		1
2. Ilex opaca	10	<u> </u>	FAC.	UPL species x 5 =	1
3. Clethra alnifolia		<u>y</u>	FACW	Column Totals: (A)	. (B)
4				Prevalence Index = B/A =	
5				Hydrophytic Vegetation Indicators:	
6				1 	
7				1 - Rapid Test for Hydrophytic Vegetation	1
				2 - Dominance Test is >50%	
8		= Total Cov		3 - Prevalence Index is ≤3.03	
103				Problematic Hydrophytic Vegetation¹ (Explain	1)
50% of total cover: 12.	<u></u> 20% of	f total cover:	<u></u>		
Herb Stratum (Plot size: 30ff x 30ff)				Indicators of hydric soil and wetland hydrology m	ust
1. <u>vonc</u>				be present, unless disturbed or problematic.	
2				Definitions of Four Vegetation Strata:	
3.				Tree Monday stands and trading views 2 is 47.5 a	>
4				Tree – Woody plants, excluding vines, 3 in. (7.6 c more in diameter at breast height (DBH), regardle	
5				height.	
6				Continuitation Internal Laboratoria	,
				Sapling/Shrub Woody plants, excluding vines, than 3 in. DBH and greater than 3.28 ft (1 m) tall.	iess
7					
8				Herb – All herbaceous (non-woody) plants, regard	dless
9				of size, and woody plants less than 3.28 ft tall.	ļ
10				Woody vine - All woody vines greater than 3.28	ft in
11				height.	
12.					Į
	O	= Total Cov	er		
50% of total cover:	20% o	f total cover			
Woody Vine Stratum (Plot size: 30f4 x30f4)					
1 Vitis rotundifolia	15	y	FAC		ļ
2 Smilax rotundifolia	16	V	FAC		
2	352	· 			
3,	· ——				
4,					
5	Mg July			Hydrophytic	
. , , , ,	<u> 30</u>	= Total Co	/er	Vegetation	
50% of total cover: 12	20% c	of total cover	: <u> </u>	Present? Yes V No	
Remarks: (If observed, list morphological adaptations bel	ow).			A Paris Control Contro	

Profile Description: (Describe to the	depth needed to docume	ent the indicator	or confirm	the absence of inc	dicators.)
Depth Matrix	Redox	Features			
(inches) Color (moist) %		% Type ¹	Loc ²	<u>Texture</u>	Remarks
10-20 10 YR 3/1 101	<u>) </u>	· · · · · · · · · · · · · · · · · · ·		<u> </u>	
	-				
					-
-					
					,
¹ Type: C=Concentration, D=Depletion,	RM=Reduced Matrix, MS=	Masked Sand Gr	ains.	² Location: PL=F	Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to	all LRRs, unless otherw	rise noted.)		Indicators for P	roblematic Hydric Soils ³ :
☐ Histosol (A1)	Polyvalue Belo	w Surface (S8) (L	.RR S, T, U)	1 cm Muck ((A9) (LRR O)
Histic Epipedon (A2)	Thin Dark Surfa	ace (S9) (LRR S,	T, U)		A10) (LRR S)
Black Histic (A3)	Loamy Mucky	Mineral (F1) (LRF	₹0)		ertic (F18) (outside MLRA 150A,B)
Hydrogen Sulfide (A4)	Loamy Gleyed		•		oodplain Soils (F19) (LRR P, S, T)
Stratified Layers (A5)	Depleted Matri			Anomalous I	Bright Loamy Soils (F20)
Organic Bodies (A6) (LRR P, T, U)	Redox Dark Su	• •		(MLRA 15	
5 cm Mucky Mineral (A7) (LRR P, T		• •			Material (TF2)
Muck Presence (A8) (LRR U)	Redox Depress				w Dark Surface (TF12)
1 cm Muck (A9) (LRR P, T)	Marl (F10) (LR				ain in Remarks)
Depleted Below Dark Surface (A11)		ic (F11) (MLRA 1	51)	oz.ioi (Exhie	
Thick Dark Surface (A12)	range of the second	e Masses (F12)		D ³ Indicators	of hydrophytic vegetation and
Coast Prairie Redox (A16) (MLRA 1		e (F13) (LRR P, 1		•	nydrology must be present.
Sandy Mucky Mineral (S1) (LRR O,	S) Delta Ochric (F	17) (MLRA 151)	, -,		sturbed or problematic.
Sandy Gleyed Matrix (S4)		(F18) (MLRA 1	50A. 150B)	u000 u.	otalibed of problematic.
Sandy Redox (S5)		dplain Soils (F19)		A)	
Stripped Matrix (S6)				, \ 149A, 153C, 153I	וו
Dark Surface (S7) (LRR P, S, T, U)		g ,	,, (-,
Restrictive Layer (if observed):					
Type:					
Depth (inches):				Hydric Soil Pres	ent? Yes No
Remarks:				Tryunc don Fres	ent? Yes <u> </u>
Nonaxa.					
:					



Wetland data point wwip015f_w facing southwest.

Project/Site: ACP City/C	County: Wilson Sampling Date: <u>5/12/15</u>
Applicant/Owner: Dominion	State: NC Sampling Point: Wwip 015-u
Investigator(s): ESI (Roper, Markham) Secti	
A 1	reflef (concave, convex, none): None Slope (%): (7-21)
Subregion (LRR or MLRA): LRR P Lat: 35,68	444 Long: -78.11037 Datum: W6584
Soil Map Unit Name: Norfolk loamy sand, 2-	61, Slopes NW classification: NA
Are climatic / hydrologic conditions on the site typical for this time of year?	res No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly distu	rbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally problem	
SUMMARY OF FINDINGS – Attach site map showing sar	
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes No	Is the Sampled Area within a Wetland? Yes No
Remarks:	
Field edge	
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) Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15) (LF	RR U) Drainage Patterns (B10)
Saturation (A3) Hydrogen Sulfide Odor	(C1) Moss Trim Lines (B16)
☐ Water Marks (B1) ☐ Oxidized Rhizospheres	
Sediment Deposits (B2)	
☐ Drift Deposits (B3) ☐ Recent Iron Reduction i	
☐ Algal Mat or Crust (B4) ☐ Thin Muck Surface (C7)	
☐ Iron Deposits (B5) ☐ Other (Explain in Rema	
Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)	FAC-Neutral Test (D5)
Field Observations:	☐ Sphagnum moss (D8) (LRR T, U)
	NA
Surface Water Present? Yes No Depth (inches):	\(\) \(\) \(\
Saturation Present? Yes No Depth (inches):	Wetland Hydrology Present? Yes No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, p	revious inspections), if available:
Remarks:	

VEGETATION (Four Strata) - Use scientific names of plant
--

	A face a look a	Danstagat	1174	
Tree Stratum (Plot size: 40 ffx 15ff)		Dominant Species?		Dominance Test worksheet:
				Number of Dominant Species That Are OBL FACW or FAC:
1. none				That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Species Across All Strata: (B)
4.				opedies Across Air Strata.
				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100 (A/B)
6				
7.				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
				OBL species x 1 =
	***************************************	= Total Cov		
50% of total cover:	20% of	total cover	·	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 40ff x 15ff)				FAC species x 3 =
1. ALEr rubrum	10	У	FAC	FACU species x 4 =
2 Sassafrass albidum	<u> </u>	N	FACU	UPL species x 5 =
	<u>e.</u>		<u>rnuv</u>	Column Totals: (A) (B)
3.				Coldital Fotals. (A)
4				Prevalence Index = B/A =
5.				L
				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7.				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3,01
	12	= Total Co	Jer	
50% of total cover:				Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% 0	rotal cover		
Herb Stratum (Plot size: 404-x154)	A. E		10	Indicators of hydric soil and wetland hydrology must
1. Phytolacca americana	_ (/	N	FACU	be present, unless disturbed or problematic.
2. Parthenocissus quinquefoli	x 1 1)	N	FACU	Definitions of Four Vegetation Strata:
3. Lonicera japonical	2.77	À	FAC	Deminions of Four Vegetation Strata.
3. Clide on Clark				Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Solidago altissima	<u> </u>	N_{r}	FACH	more in diameter at breast height (DBH), regardless of
5. Ambrosia artemisiifolia	10	N	FACU	height.
6				0-1-10-1-10-1-1
				Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
				i than 3 in. DDI i and dicater than 3.20 it () fill tan.
7				[
8				
8.				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
9				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
9				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
8				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
9				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
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8	70 20% (20 20 15	= Total Co	r: 14 FAC FAC FAC	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height.
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8. 9. 10. 11. 12. 50% of total cover: 35 Woody Vine Stratum (Plot size: 40ft x 15ft) 1. Lonicera japonica 2. Vitis rotundifolia 3. Smilax rotundifolia 4. 5.	70 20% 0 20 15	= Total Co	FAC FAC FAC	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height.
8	70 20% c 20 15 15	= Total Co	FAC FAC FAC	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
8. 9. 10. 11. 12. 50% of total cover: 35 Woody Vine Stratum (Plot size: 40ft x 15ft) 1. Lonicera japonica 2. Vitis rotundifolia 3. Smilax rotundifolia 4. 5.	70 20% c 20 15 15	= Total Co	FAC FAC FAC	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
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		to the deput			tor or confirm	the absence o	f indicators.)
Depth (inches)	Matrix_ Color (moist)	<u></u> %	Redo	x Features % Typ	e¹ Loc²	Texture	Remarks
0-20		100	Color (moist)		E LUC		Remarks
		_ 100 _					
-				- 			
							
	ncentration, D=De				d Grains.		PL=Pore Lining, M=Matrix.
*****	ndicators: (Appli	cable to all LR	_	· ·			or Problematic Hydric Soils ³ :
Histosol				elow Surface (S		1-1	uck (A9) (LRR O)
	ipedon (A2)			urface (S9) (LRF			uck (A10) (LRR S)
Black His				ky Mineral (F1) (ed Matrix (F2)	LRR ()		d Vertic (F18) (outside MLRA 150A,B)
	n Sulfide (A4) Layers (A5)		Depleted Ma				nt Floodplain Soils (F19) (LRR P, S, T) ous Bright Loamy Soils (F20)
	Bodies (A6) (LRR I	P. T. U)		Surface (F6)			A 153B)
=	cky Mineral (A7) (L	,		irk Surface (F7)			rent Material (TF2)
	esence (A8) (LRR			essions (F8)			nallow Dark Surface (TF12)
	ck (A9) (LRR P, T)		Marl (F10) (LRR U)		Other (Explain in Remarks)
_	l Below Dark Surfa	ce (A11)	-	chric (F11) (MLF	•	_	
	ark Surface (A12)	// D		nese Masses (F			ators of hydrophytic vegetation and
	rairie Redox (A16)			ace (F13) (LRR			and hydrology must be present,
	lucky Mineral (S1) ileyed Matrix (S4)	(LRR U, S)	$\overline{}$	c (F17) (MLRA 1 ertic (F18) (MLR			ss disturbed or problematic.
	ledox (S5)		-	loodplain Soils (
	Matrix (S6)			Bright Loamy S		•	153D)
	rface (S7) (LRR P,	S, T, U)	_	,	, ,,		,
	Layer (if observed						
Type:							
Depth (in	ches):					Hydric Soil	Present? Yes V No
Remarks:							



Applicant/Owner: Don't in three interesting to the property of	Project/Site: ACP	City/County: Wilson Sampling Date: 7/8/14
Investigator(s): EST LL PORCH Landform (fillslope, terrace, etc.): Provincia Local relief (concave, convex, none): Concave Slope (%): D-Y/Subregion (LRR or MLRA): LR. P Lat: 35 VB 18 Long: 78 ML31 Datum McS Soli Map Unit Name: Distort I Community State (Inno, explain in Remarks.) Are Vegetation Soil or Hydrology significantly disturbed? Are 'Normal Circumstances' present? Yes No Are Vegetation Soil or Hydrology naturally problematic? (if needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No Is the Sampled Area within a Wetland Hydrology Present? Yes No No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes Saturation (As) Water Marks (B1) Hydrology Medical Presence of Reduced fron (C4) Craylish Burrows (C5) Presence of Reduced fron (C4) Craylish Burrows (C5) Saturation Visible on Aerial Imagery (C5) Genomorphic Position (D2) Shallow Aquistion (D2) Shallow		
Local relief (concave, convex, none): CYACALE Slope (%): 0-Y-Y-Subregion (LRR or MLRA): Lee Lat: 35 v218 Long: 78.1(3) Datum Mrs Soil May Unit Name: 10.5 of 100-Y-S Soil Name: 10.5 of 100-Y-S Soil Name: 10.5 of		
Subtregion (LRR or MLRA):		
Soil Map Unit Name:		18 Long: - 78 1131 Datum: NGS 8
Are climatic / hydrologic conditions on the site typical for this time of year? Yes		
Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc. Hydrophylic Vegetation Present? Yes No Is the Sampled Area within a Wetland? Yes No No No No No No No No No No No No No		(VVI diddonidation)
Are Vegetation		
SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present?		
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Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Thin Muck Surface (C7) Geomorphic Position (D2) Iron Deposits (B5) Other (Explain in Remarks) Shallow Aquitard (D3) FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U) Field Observations: Surface Water Present? Water Table Present? Yes No Depth (inches): Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U) Water Table Present? Yes No Depth (inches): Very No Depth (inches): Very No Depth (inches): Very No Depth (inches): Very No Depth (inches): Very No Depth (inches): Very No Depth (inches): Very No No Depth (inches): Very No No Depth (inches): Very No No Depth (inches): Very No No No Depth (inches): Very No No No Depth (inches): Very No No No Depth (inches): Very No No No Depth (inches): Very No No No Depth (inches): Very No No No Depth (inches): Very No No No No No No No No No No No No No		· · · · · · · · · · · · · · · · · · ·
Algal Mat or Crust (B4)		
Iron Deposits (B5) Other (Explain in Remarks) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches):		
Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Yes No Depth (inches): No Depth (inches): No Depth (inches): No Depth (inches): No Depth (inches): Wetland Hydrology Present? Yes No No No No No No No No No No No No No No No No		· · · — — I
Field Observations: Surface Water Present? Yes No Depth (inches): No Depth (inches): No Depth (inches): No Depth (inches): No Depth (inches): Wetland Hydrology Present? Yes No No Depth (inches): Yes No	1 /	The state of the s
Surface Water Present? Yes No Depth (inches): No Depth (inches): No Depth (inches): No Depth (inches): No Depth (inches): Yes No Depth (inches): Wetland Hydrology Present? Yes No		☐ Sphagnum moss (D8) (LRR T, U)
Water Table Present? Yes No Depth (inches): No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): No	1	. NA
Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Surface Water Present? Yes No Depth (Inche	
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	vvater Table Present? Yes No Ponth (inche	Wetland Hydrology Present? Ves No
	(includes capillary fringe)	
Remarks:	Describe Recorded Data (stream gauge, monitoring well, aerial pho	otos, previous inspections), if available:
	Remarks:	
	,	
	·	
		*·

	^ h = = l · d =	Daminant	1-dianta	Damin and Task was delayed.
Tree Observery (Diek sines 2 D v 37)		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 20x30)		Species?		Number of Dominant Species
1. Pinus taeda	10		FAL	That Are OBL, FACW, or FAC:(A)
2		•		. *
				Total Number of Dominant
3				Species Across All Strata: (B)
4	_	<u> </u>		
				Percent of Dominant Species That Are OBL, FACW, or FAC: \OO (A/B)
5				That Are OBL, FACW, or FAC:(A/B)
6				
7				Prevalence Index worksheet:
				Total % Cover of: Multiply by:
8	20			OBL species x 1 =
	20	= Total Cov	ver .	
50% of total cover: 10		f total cover		FACW species x 2 =
	2070 0	total cover	·— -	FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 30 (3))	_			
1. Alex nibnm	20	Ą	PAL	FACU species x 4 =
2. Pinus tach	30		PAL	UPL species x 5 =
				Column Totals: (A) (B)
3. Vaccinium corrymbosum	<u> 10</u>	<u> </u>	FACW	Coldini Totals. (A)
ļ ,			•	Dravelence Index - B/A
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7	. ——			2 - Dominance Test is >50%
8	. 			3 - Prevalence Index is ≤3.0¹
	60	= Total Co	ver	l
50% of total cover:				Problematic Hydrophytic Vegetation ¹ (Explain)
	<u></u> 20% 0	total cove	1. 10	
Herb Stratum (Plot size: 30 x 30)				¹ Indicators of hydric soil and wetland hydrology must
1 Annahancia andinterio	10	V	FAC	be present, unless disturbed or problematic.
1. Anndinaria grantea				
2				Definitions of Four Vegetation Strata:
3				To a 124 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
1				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5	_		·	height.
6				Casting/Charle Weeds slepts eveloding since long
1				Sapling/Shrub - Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
L .				of size, and woody plants less than 3.28 ft tail.
9				
10				Woody vine - All woody vines greater than 3.28 ft in
11				height.
L				
12				
+	10	_ = Total Co	over	
50% of total cover:	20% /	of total cove	er: 2	
			···	
Woody Vine Stratum (Plot size: 30 x 30)		×.		
1. Smilax notundifolia	30	Y	PAC	
· ·				
2				•
3				
4				
				• [
5			-	- Hydrophytic /
	30	_ = Total C	over	Vegetation /
50% of total cover:		of total cove		Present? Yes No
		UI TOTAL COVE		·
Remarks: (If observed, list morphological adaptations be	low).			

Profile Description: (Describe to the depth needed to document the indicator or confin	m the absence of indicators.)
Depth Matrix Redox Features	
(inches) Color (moist) % Color (moist) % Type 1 Loc2	
	<u> </u>
10-70 7,5 1/2 3/1 100	<u> </u>
17 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils ³ :
Histosol (A1) Polyvalue Below Surface (S8) (LRR S, T,	
Histic Epipedon (A2) Thin Dark Surface (S9) (LRR S, T, U)	2 cm Muck (A10) (LRR S)
Black Histic (A3) Loamy Mucky Mineral (F1) (LRR O)	Reduced Vertic (F18) (outside MLRA 150A,B)
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2)	Piedmont Floodplain Soils (F19) (LRR P, S, T)
Stratified Layers (A5) Depleted Matrix (F3)	Anomalous Bright Loamy Soils (F20)
Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) 5 cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7)	(MLRA 153B) Red Parent Material (TF2)
Muck Presence (A8) (LRR U) Redox Depressions (F8)	Very Shallow Dark Surface (TF12)
1 cm Muck (A9) (LRR P, T) Mari (F10) (LRR U)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151)	
Thick Dark Surface (A12)	, , , , , ,
Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U)	wetland hydrology must be present,
Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Delta Ochric (F17) (MLRA 151) Reduced Vertic (F18) (MLRA 150A, 150B	unless disturbed or problematic.
Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 130A, 130B)	
Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (ML	
Dark Surface (S7) (LRR P, S, T, U)	·
Restrictive Layer (if observed):	
Type:	
Depth (inches):	Hydric Soil Present? Yes No
Remarks:	
	•
	•
•	·
,	



Wetland data point wwip004f_w facing south.

Project/Site: ACP	City/County: Wilson Sampling Date: 7/8/14
Applicant/Owner: Dominion	State: NC Sampling Point: www.p004-t
Investigator(s): EST LL Roper)	Section, Township, Range: NA
Landform (hillslope, terrace, etc.): druinue	
	5.19870 Long: 78.1131 Datum: W65 8
Soil Map Unit Name: ToiSnot Ioam	NWI classification: PPD
Are climatic / hydrologic conditions on the site typical for this time of y	
Are Vegetation, Soil, or Hydrology significantly	
Are Vegetation, Soil, or Hydrology naturally pr	
SUMMARY OF FINDINGS - Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks:	Is the Sampled Area within a Wetland? Yes No
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B	
High Water Table (A2) Marl Deposits (B	
Saturation (A3) Hydrogen Sulfide	
	oheres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Red	uced Iron (C4)
☐ Drift Deposits (B3) ☐ Recent Iron Redu ☐ Algal Mat or Crust (B4) ☐ Thin Muck Surface	The state of the s
Iron Deposits (B5) Other (Explain in	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	es): NA
Surface Water Present? Yes No Depth (inche Water Table Present? Yes No Depth (inche Present)	
Water Table Present? Yes No Depth (inche Saturation Present? Yes No Depth (inche Present)	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial pho	otos, previous inspections), if available:
Remarks:	
	•
· ·	

	<u> </u>			
2 0 20 1		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 x 30)		Species?		Number of Dominant Species -7
1. Pinus toedo	45	_У	FAC	That Are OBL, FACW, or FAC: (A)
2. Limidambar styrpeitloa	10	N	FAL	
2. TI BUI DECENDENT STREET TO BE			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Total Number of Dominant
3		_	. 1	Species Across All Strata: (B)
				(,
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7				
8.				Total % Cover of: Multiply by:
0	<u>55</u>			OBL species x1 =
		= Total Cov		-
50% of total cover: <u>2-7</u>	5 20% of	total cover	· 11	FACW species x 2 =
	20,00	(0,0,100,00,00,00,00,00,00,00,00,00,00,00	· :	FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 30x30)	•		- 0.4	FACU species x 4 =
1. Pinus taeda	45	4	FAL	
2. Acer rubrum	1	Ý	FAC	UPL species x5 =
				Column Totals: (A) (B)
3. Varcinium corumbosum	15	γ	FACW	Column rotals: (A) (B)
				·
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
				<u></u>
6	-			1-Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8.				l
0,	7/			☐ 3 - Prevalence Index is ≤3.0¹
		= Total Co		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 37.	20% 0	f total cover	-15	
Herb Stratum (Plot size: 30 x 30)	4			Indicators of hydric soil and wetland hydrology must
1 Hrundingsian organizer	15	У	FACK	be present, unless disturbed or problematic.
1. Arundinaria giguntea		·		
2				Definitions of Four Vegetation Strata:
3				
1				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub - Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10	- 			Woody vine - All woody vines greater than 3.28 ft in
11	_			height.
1				
12.	_ 			
	15	_ = Total Co	over	
50% of total cover: 7	5 2004			
	20%	or total cove	"· <u> </u>	
Woody Vine Stratum (Plot size: 30 x 30)				
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		7	CAL	
1. Vitis votunditolia	- 12	/	1 TIC	
2. benilex volunditation	20	7	FAC	
				•
3				
4.				
1	-			·
5				Hydrophytic
	35	_ = Total C	over	Vegetation
17	-	_		Present? Yes No
50% of total cover: 17		of total cove	er: <u> </u>	
Remarks: (If observed, list morphological adaptations be	Jour			
Remarks. (II observed, list morphological adaptations be	HOW).			
·				
1				

Profile Desc	cription: (Describe t	o the dep	th needed to docum	nent the	indicator	or confirm	n the absence of ir	ndicators.)
Depth	Matrix			x Feature		. 2		
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	<u>Type¹</u>	_Loc ² _	Texture	Remarks
0-10	57/2 25/1	100					<u> </u>	
10-20	7.5412411	95	DOYPL 6/16	5	<u>C,</u>	<u>M</u>	<u> </u>	
	• •							
			·					
							·	
	·							
¹ Type: C=C	oncentration, D=Depl	etion. RM=	=Reduced Matrix, MS	S=Maske	d Sand Gr	ains.	² Location: PL=	Pore Lining, M=Matrix.
	Indicators: (Applica							Problematic Hydric Soils ³ :
☐ Histoso	(A1)		☐ Polyvalue Be	low Surfa	ace (S8) (I	RR S, T,		(A9) (LRR O)
	pipedon (A2)		Thin Dark Su				· —	(A10) (LRR S)
Black H	istic (A3)		Loamy Muck	y Mineral	(F1) (LRF	R O)		/ertic (F18) (outside MLRA 150A,B)
1 =	en Sulfide (A4)		oamy Gleye		(F2)			Floodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)		Depleted Ma		_			s Bright Loamy Soils (F20)
. = .	Bodies (A6) (LRR P,	-	Redox Dark				☐ (MLRA 1	
	ucky Mineral (A7) (LR		Depleted Date Redox Depre					nt Material (TF2) ow Dark Surface (TF12)
I ===	resence (A8) (LRR U) uck (A9) (LRR P, T))	Mari (F10) (L		-0)			ow Dark Sunace (1F12) plain in Remarks)
	d Below Dark Surface	e (A11)	Depleted Oc		(MLRA 1	51)	Other (Exp	main in ivernality
	ark Surface (A12)	. (,	☐ Iron-Mangan				, T) ³ Indicator	's of hydrophytic vegetation and
ı ==	rairie Redox (A16) (N	/LRA 150/						I hydrology must be present,
Sandy I	Mucky Mineral (S1) (L	.RR O, S)	Delta Ochric	(F17) (M	LRA 151)			disturbed or problematic.
	Gleyed Matrix (S4)		Reduced Ve				•	
	Redox (S5)		Piedmont Fk	-		-	•	
	d Matrix (S6)		Anomalous E	Bright Loa	amy Soils	(F20) (ML	RA 149A, 153C, 15	(3D)
	urface (S7) (LRR P, S Layer (if observed):							
1	Layer (ii observed):		•					
Type:	- l N							
<u> </u>	nches):					_	Hydric Soil Pre	esent? Yes No
Remarks:								
1								
ļ								
İ								
ļ								
1								
				•				



Upland data point wwip004_u facing north.

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region Project/Site: City/County: Applicant/Owner: Dominion Investigator(s): ESE UL Poner Landform (hillslope, terrace, etc.): avainage comande Local relief (concave, convex, none): _ Subregion (LRR or MLRA): _ L L L Soil Map Unit Name: V NWI classification: Are climatic / hydrologic conditions on the site typical for this time of year? Yes _ (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes significantly disturbed? __, Soil _____, or Hydrology ___ __ naturally problematic? (If needed, explain any answers in Remarks.) Are Vegetation _____, Soil _____, or Hydrology ____ SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Yes Remarks: **HYDROLOGY** Secondary Indicators (minimum of two required) Wetland Hydrology Indicators: Surface Soil Cracks (B6) Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Aquatic Fauna (B13) Sparsely Vegetated Concave Surface (B8) High Water Table (A2) Marl Deposits (B15) (LRR U) Drainage Patterns (B10) Hydrogen Sulfide Odor (C1) Moss Trim Lines (B16) Saturation (A3) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Water Marks (B1) Sediment Deposits (B2) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Geomorphic Position (D2) Algal Mat or Crust (B4) Thin Muck Surface (C7) Shallow Aquitard (D3) Iron Deposits (B5) Other (Explain in Remarks) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Sphagnum moss (D8) (LRR T, U) Field Observations: Surface Water Present? Depth (inches): Water Table Present? Wetland Hydrology Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

2 Dy 27		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 x 30		Species?		Number of Dominant Species
1. Pinus tall	25		FAC	That Are OBL, FACW, or FAC: (A)
2.				Total Number of Dominant
3				Species Across All Strata: (B)
4				ED 25 A2025A 601 10 VA 70
5.			The state of the s	Percent of Dominant Species That Are OBL, FACW, or FAC: 875/. (A/B)
				That Are OBL, FACW, or FAC: 8 / S /. (A/B)
6				Prevalence Index worksheet:
7	-	-		Total % Cover of: Multiply by:
8.				10 10 10 10 10 10 10 10 10 10 10 10 10 1
i.		= Total Cov		OBL species x 1 =
50% of total cover: 12-	5 20% of	total cover	3	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30 x 30)			7. 1000 1172.5	FAC species x 3 =
1. Pinus tuera	25	Υ	FAL	FACU species x 4 =
2. Accor rubnom	25	Ý	FAL	UPL species x 5 =
3. Lienitamber sturavithe	90 45	Ý	FAL	Column Totals: (A) (B)
3. LIENT AMON STURVISION	W.1		THE	(,,
4				Prevalence Index = B/A =
·5				Hydrophytic Vegetation Indicators:
6			7.7	1 - Rapid Test for Hydrophylic Vegetation
7				2 - Dominance Test is >50%
8		100		l
·	75	= Total Co		☐ 3 - Prevalence Index is ≤3.01
50% of total cover: 3.5				Problematic Hydrophytic Vegetation ¹ (Explain)
	20% o	t total cove	13	
Herb Stratum (Plot size: 30 x30)	& stere	1.7	D .A	¹ Indicators of hydric soil and wetland hydrology must
1: Liquetum sinense	Fr.	<u> </u>	PALU	be present, unless disturbed or problematic.
2 Woodwardia overlater	15	<u> </u>	FACH	Definitions of Four Vegetation Strata:
3. Anndinaria argantea	10-	N	FACH	To a Manda dada and discribed the Grant of
4. Bochmeria Lytudrica	15	Y	FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
				height.
6				Sapling/Shrub - Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8		- 1		Herb - All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine - All woody vines greater than 3.28 ft in
11				height.
12.				
12.	55	= Total Co		
7000 -51-4-1 7 =	1.5 000			00 00 00 00 00 00 00 00 00 00 00 00 00
50% of total cover: 2.1	20%	of total cove	r	
Woody Vine Stratum (Plot size: 30 × 30)	- 5°	M	C10 #	
1. Vits rotudifolia.	1.5		MI	
2				1
3.				
4				
\ \frac{\pi}{\sigma}	•		-	
5	75			Hydrophytic
	703	_ = Total Co		Vegetation Present? Yes No
50% of total cover: 12	20%	of total cove	er: <u>5</u>	Present les V NO
Remarks: (If observed, list morphological adaptations be	low).			

Profile Description: (Describe to the depth needed to document the indicator or confirm	the absence of indicators.)
Depth Matrix Redox Features	
(inches) Color (moist) % Color (moist) % Type ¹ Loc ²	Texture Remarks
0-10 7,54R3/2 100	Fre SL
10-12 715 1R 4/1 100	FineSL
12-20 7.5 4.6 11 100	FINESL
	1.00
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
Histosol (A1) Polyvalue Below Surface (S8) (LRR S, T, U	I) 🛄 1 cm Muck (A9) (LRR O)
Histic Epipedon (A2) Thin Dark Surface (S9) (LRR S, T, U)	2 cm Muck (A10) (LRR S)
Black Histic (A3) Loamy Mucky Mineral (F1) (LRR O)	Reduced Vertic (F18) (outside MLRA 150A,B)
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2)	Piedmont Floodplain Soils (F19) (LRR P, S, T)
Stratified Layers (A5) Depleted Matrix (F3) Organic Pedics (A6) (LRR R T LL)	Anomalous Bright Loamy Soils (F20)
Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) 5 cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7)	(MLRA 153B) Red Parent Material (TF2)
Muck Presence (A8) (LRR U) Redox Depressions (F8)	Very Shallow Dark Surface (TF12)
1 cm Muck (A9) (LRR P, T)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151)	.]
Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P,	T) ³ Indicators of hydrophytic vegetation and
Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U)	wetland hydrology must be present,
Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151)	unless disturbed or problematic.
Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 14	
Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 14)	
Dark Surface (S7) (LRR P, S, T, U)	A 140A, 1000, 100D)
Restrictive Layer (if observed):	1
Type:	
· · · · · · · · · · · · · · · · · · ·	Hydric Soil Present? Yes No
Type:	Hydric Soil Present? Yes No
Type: Depth (inches):	Hydric Soil Present? Yes No No
Type: Depth (inches):	Hydric Soil Present? Yes No
Type: Depth (inches):	Hydric Soil Present? Yes No
Type: Depth (inches):	Hydric Soil Present? Yes No
Type: Depth (inches):	Hydric Soil Present? Yes No
Type: Depth (inches):	Hydric Soil Present? Yes No No
Type: Depth (inches):	Hydric Soil Present? Yes No No
Type: Depth (inches):	Hydric Soil Present? Yes No No
Type: Depth (inches):	Hydric Soil Present? Yes No No
Type: Depth (inches):	Hydric Soil Present? Yes No No
Type: Depth (inches):	Hydric Soil Present? Yes No No
Type: Depth (inches):	Hydric Soil Present? Yes No No
Type: Depth (inches): Remarks:	Hydric Soil Present? Yes No No
Type: Depth (inches):	Hydric Soil Present? Yes No No
Type: Depth (inches): Remarks:	Hydric Soil Present? Yes No No
Type: Depth (inches): Remarks:	Hydric Soil Present? Yes No No
Type: Depth (inches): Remarks:	Hydric Soil Present? Yes No No
Type: Depth (inches): Remarks:	Hydric Soil Present? Yes No No
Type: Depth (inches): Remarks:	Hydric Soil Present? Yes No No
Type: Depth (inches): Remarks:	Hydric Soil Present? Yes No No
Type: Depth (inches): Remarks:	Hydric Soil Present? Yes No No
Type: Depth (inches): Remarks:	Hydric Soil Present? Yes No No



 $We tland\ data\ point\ wwip 006f_w\ facing\ southwest.$

Project/Site: ACP	City/County: Wilson Sampling Date: 7/8/14
Applicant/Owner: Dominion	State: NC Sampling Point: Wwip 006_u
Investigator(s): EST UROper)	Section, Township, Range: NA
Calculation (Illinsippe, terrace, etc.).	Local relief (concave, convex, none): <u>Concave</u> Slope (%): <u>0-4%</u> 6777 Long: <u>-78.1149</u> Datum: 688
Soil Map Unit Name: 4 hins sandy loan	
Are climatic / hydrologic conditions on the site typication this time of ye	
Are Vegetation, Soil, or Hydrology significantly	
Are Vegetation, Soil, or Hydrology naturally pro	oblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing	sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	
	Is the Sampled Area within a Wetland? Yes No
Hydric Soil Present? Wetland Hydrology Present? Yes No	within a wetiand? TesNo
Remarks:	
	6
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) Aquatic Fauna (B1	3) Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Mari Deposits (B1	Section 20 Section 20
Saturation (A3) Hydrogen Sulfide	
	heres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Redu Drift Deposits (B3) Recent Iron Redu	ced Iron (C4)
Algal Mat or Crust (B4) Thin Muck Surface	200 to 3 to 0.00 pt 10 to 0.00 pt 10
Iron Deposits (B5) Other (Explain in	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	s); NA
Surface Water Present? Yes No Depth (inche	
Water Table Present? Yes No Depth (inche Saturation Present? Yes No Depth (inche	s): 729 Wetland Hydrology Present? Yes No
(includes capillary fringe)	200 E
Describe Recorded Data (stream gauge, monitoring well, aerial pho	tos, previous inspections), if available:
Remarks:	
E	
. *	
	\mathcal{J}'

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

Sampling Point: Www.p006_U

024	AND THE RESERVE OF THE PROPERTY OF THE PROPERT	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 x 36)		Species?		Number of Dominant Species
1. Pinus tacka	50	7	1-HC	That Are OBL, FACW, or FAC: 4 (A)
2				Total Number of Dominant
3				Species Across All Strata:
4				
5				Percent of Dominant Species
				That Are OBL, FACW, or FAC: 100/, (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8.		-		OBL species x 1 =
		= Total Co		
50% of total cover: \(\(\sum_{\text{o}} \)	20% o	f total cover	:_b_	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30 × 30)				FAC species x3 =
1. Pinus toca	40	Y	PAC	FACU species x 4 =
2 Tex once	15	N	FALU	UPL species x 5 =
3. Prev nibrum	15	N	FAL	Column Totals: (A) (B)
4. Liquidambur stunsiflua	10	P	FAL	
	- ——			Prevalence Index = B/A =
5.			12 (2000)	Hydrophytic Vegetation Indicators:
6				- Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.01
		= Total Co		Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 40	20% c	of total cove	r: <u></u>	
Herb Stratum (Plot size: 36 x 30)				¹ Indicators of hydric soil and wetland hydrology must
1. Arundinavia arounteo	15	Y	FALW	be present, unless disturbed or problematic.
2. 0 0				Definitions of Four Vegetation Strata:
1 0				Deminions of Four Vegetation offata.
3.				Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub - Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8		_		Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10.				
11		*		Woody vine – All woody vines greater than 3.28 ft in height.
12.				neight.
12.	15	T (40		
3		_ = Total C		
50% of total cover: 7.	S 20%	of total cov	er:	.
Woody Vine Stratum (Plot size: 30 X 30)	0	(1		
1. Smilax rotundifolis	20	<u>, </u>	FAL	. \
2				
3		2343		
4			- C) (34)	•
5	0196			
J	20	= Total C		- Hydrophytic Vegetation
		The second second	4.1	Present? Yes No No
50% of total cover:	000	of total cov	/er:	
Remarks: (If observed, list morphological adaptations be	elow).			

	th needed to document the indicator or confirm	
Depth . Matrix	Redox Features	
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture Remarks
10-12 104R 3/1 100		5L
L. O MALL		Fino SL
12-20 7.512-1 100		- FINO 3 L
		3 80 6 30 5
	The second secon	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all	30.7	Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Polyvalue Below Surface (S8) (LRR S, T, U	
Histic Epipedon (A2)	Thin Dark Surface (S9) (LRR S, T, U)	2 cm Muck (A10) (LRR S)
Black Histic (A3)	Loamy Mucky Mineral (F1) (LRR O)	Reduced Vertic (F18) (outside MLRA 150A,B)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Piedmont Floodplain Soils (F19) (LRR P, S, T)
Stratified Layers (A5)	Depleted Matrix (F3)	Anomalous Bright Loamy Soils (F20)
Organic Bodies (A6) (LRR P, T, U)	Redox Dark Surface (F6)	(MLRA 153B)
5 cm Mucky Mineral (A7) (LRR P, T, U	Depleted Dark Surface (F7)	Red Parent Material (TF2)
Muck Presence (A8) (LRR U)	Redox Depressions (F8)	Very Shallow Dark Surface (TF12)
1 cm Muck (A9) (LRR P, T)	Marl (F10) (LRR U)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Ochric (F11) (MLRA 151)	
☐ Thick Dark Surface (A12)	Iron-Manganese Masses (F12) (LRR O, P,	T) ³ Indicators of hydrophytic vegetation and
Coast Prairie Redox (A16) (MLRA 150		wetland hydrology must be present,
Sandy Mucky Mineral (S1) (LRR O, S)	Delta Ochric (F17) (MLRA 151)	unless disturbed or problematic.
Sandy Gleyed Matrix (S4)	Reduced Vertic (F18) (MLRA 150A, 150B)	
Sandy Redox (S5)	Piedmont Floodplain Soils (F19) (MLRA 14	
Stripped Matrix (S6)	Anomalous Bright Loamy Soils (F20) (MLR	
Dark Surface (S7) (LRR P, S, T, U)	_ , , , , , , , , , , , , , , , , , , ,	, , , , , , , , , , , , , , , , , , , ,
Restrictive Layer (if observed):	<u> </u>	
Type:		

Depth (inches):		Hydric Soil Present? Yes No
***		Hydric Soil Present? Yes No
Depth (inches):	· · · · · · · · · · · · · · · · · · ·	Hydric Soil Present? Yes No
Depth (inches):	,	Hydric Soil Present? Yes No
Depth (inches):	,	Hydric Soil Present? Yes No
Depth (inches):		Hydric Soil Present? Yes No
Depth (inches):		Hydric Soil Present? Yes No
Depth (inches):		Hydric Soil Present? Yes No
Depth (inches):		Hydric Soil Present? Yes No
Depth (inches):		Hydric Soil Present? Yes No
Depth (inches):		Hydric Soil Present? Yes No
Depth (inches):		Hydric Soil Present? Yes No
Depth (inches):		Hydric Soil Present? Yes No
Depth (inches):		Hydric Soil Present? Yes No
Depth (inches):		Hydric Soil Present? Yes No
Depth (inches):		Hydric Soil Present? Yes No
Depth (inches):		Hydric Soil Present? Yes No
Depth (inches):		Hydric Soil Present? Yes No
Depth (inches):		Hydric Soil Present? Yes No
Depth (inches):		Hydric Soil Present? Yes No
Depth (inches):		Hydric Soil Present? Yes No
Depth (inches):		Hydric Soil Present? Yes No
Depth (inches):		Hydric Soil Present? Yes No
Depth (inches):		Hydric Soil Present? Yes No
Depth (inches):		Hydric Soil Present? Yes No
Depth (inches):		Hydric Soil Present? Yes No
Depth (inches):		Hydric Soil Present? Yes No
Depth (inches):		Hydric Soil Present? Yes No



Upland data point wwip006_u facing northeast.

Project/Site: ACP	City/County: Nilson Sampling Date: 7/8/14
Applicant/Owner: Dominim	State: N/ Sampling Point: WW1P 007 f -v
	Section, Township, Range: NA
	Local relief (concave, convex, none): 1001601 Slope (%): 0-47
	. 6733 Long: -78, 1167 Datum: WGS&
Soil Map Unit Name: Rains Sandy 1000	The state of the s
Are climatic / hydrologic conditions on the site typical for this time of ye	
	50 (1995) 1990 (1996) (1996) 1990 (1996) 1
Are Vegetation, Soil, or Hydrology significantly	
Are Vegetation, Soil, or Hydrology naturally pro-	
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	Is the Sampled Area
Hydric Soil Present? Yes No	within a Wetland? Yes No No
Wetland Hydrology Present? Yes No	
Remarks:	
v v	
. ASSESSED	* .
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) Aquatic Fauna (B	
High Water Table (A2) High Water Table (A2) Marl Deposits (B1	A CONTROL OF THE CONT
Saturation (A3) Hydrogen Sulfide Oxidized Disease	AS SOURCE - SECURE PROPERTY OF SECURE SECURITY CONTRACTOR - PROPERTY - PROPER
Water Marks (B1)	heres along Living Roots (C3) Ury-Season Water Table (C2) uced Iron (C4) Crayfish Burrows (C8)
	uction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	
☐ Iron Deposits (B5) ☐ Other (Explain in	_/
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations: Surface Water Present? Yes NoDepth (inches	es): NF
Water Table Present? Yes No Depth (inche Saturation Present? Yes No Depth (inche Saturation Present?	
(includes capillary fringe)	44 C1
Describe Recorded Data (stream gauge, monitoring well, aerial pho	otos, previous inspections), if available:
Remarks:	
<u>\$</u>	
	,
	e
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. . Y .

	Ahenluta	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30x30)	% Cover	Species?		
1. Pinus tacka	20	7	PAC	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
The state of the s				1100700 002,77077,017707
2.				Total Number of Dominant
3				Species Across All Strata:
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: \\\(\mathcal{O}\mathcal{O}\) (A/B)
6.				THAT ALE OBE, I AGW, OF THE
				Prevalence Index worksheet:
7		-		Total % Cover of: Multiply by:
8				
	20	= Total Co	ver	OBL species x1 =
50% of total cover:	> 20% c	of total cove	. 4	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 36 x 30)			(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	FAC species x 3 =
	20	N	CA/	FACU species x 4 =
1. Pinus tacda	20		FAL_	UPL species x 5 =
2. Aler nohm	20	<u> </u>	PAC	
3. Vaccinium corumbosum	115	7	FACW	Column Totals: (A) (B)
				B. 1
4			14 - 17 - 1	Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6	_			Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8.				3 - Prevalence Index is ≤3.0¹
v		= Total Co		The state of the s
2.			- 1	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 2	15 20%	of total cove	r: <u>11 </u>	
Herb Stratum (Plot size: 30 x 30)				Indicators of hydric soil and wetland hydrology must
1. Arundinaria grantea	LD.	Y	FALM	be present, unless disturbed or problematic.
				Definitions of Four Vegetation Strata:
	1960		110,770	Deminions of Four Vegetation Strata.
3				Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4.	4_8			more in diameter at breast height (DBH), regardless of
5				height.
6.				Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7			-(0)	than 3 m, DBH and greater than 3.20 it (1 m) tail.
8				Herb - All herbaceous (non-woody) plants, regardless
9				, , , , , , , , , , , , , , , , , , , ,
10				1
			- E	rioddy tine - 7 ii rioddy tined greater than 6.20 it ii
11.				_ height.
12		*/-		= ,
	60	_ = Total C	over	
50% of total cover: _2	20%			
30% of total cover	20 /0	OI LOCAL COV	CI. 1 4	- \
Woody Vine Stratum (Plot size: 30 × 30)				
1. NOME		20 10		
2				
				-
3				-
4				_
5	W.	200.000	200	- Hydrophytic
	O	= Total (Cover	Vegetation
mant to a				Present? Yes No
50% of total cover:	209	on total co	ver:	<u> </u>
Remarks: (If observed, list morphological adaptations	below).			
,				
,				

Profile Desc	ription: (Describe	to the dept	h needed to docur	nent the in	dicator	or confirm	the absence of inc	licators.)
Depth	Matrix		Redo	x Features				N 30 0 0 0 0 0
(inches)	Color (moist)	%	Color (moist)	<u> </u>	Type ¹	_Loc2	Texture	Remarks
0-12	104841	95	10YF 46	_5	<u> </u>	M	<u> 5L</u>	
12-20	10 11-th	90	1012516	10	C	M	SCL	
	·*							e d
1								
							-	
		-10-1						
	oncentration, D=Dep					ains.	2Location: PL=F	Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applic	able to all	LRRs, unless othe	rwise note	d.)		Indicators for P	roblematic Hydric Soils ³ :
☐ Histosol	(A1)		Polyvalue Be	elow Surfac	e (S8) (L	RR S, T, U	J) 🚨 1 cm Muck	(A9) (LRR O)
Histic E	pipedon (A2)		Thin Dark St	urface (S9)	(LRR S,	T, U)		(A10) (LRR S)
Black H	istic (A3)		Loamy Muck	y Mineral (F1) (LRF	R O)	Reduced Ve	ertic (F18) (outside MLRA 150A,B)
Hydroge	en Suifide (A4)		Loamy Gley	ed Matrix (F	-2)			loodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)		Depleted Ma		22			Bright Loamy Soils (F20)
	Bodies (A6) (LRR F		Redox Dark	Surface (F	6)		(MLRA 18	
5 cm Mi	ucky Mineral (A7) (L	RR P, T, U)	Depleted Da	rk Surface	(F7)			Material (TF2)
	resence (A8) (LRR L	J)	Redox Depr		3)			w Dark Surface (TF12)
	uck (A9) (LRR P, T)		☐ Marl (F10) (I			•	U Other (Expl	ain in Remarks)
	d Below Dark Surfac	ce (A11)	Depleted Oc		• and the state of		100 TOTAL 188	~
	ark Surface (A12)		☐ Iron-Mangar			55 475 B	T) ³ Indicators	of hydrophytic vegetation and
() () () () () () () () () ()	rairie Redox (A16) (wetland	hydrology must be present,
	Mucky Mineral (S1) (LRR O, S)	Delta Ochric					listurbed or problematic.
	Gleyed Matrix (S4)		Reduced Ve			and the state of t		
	Redox (S5)		Piedmont FI					9-300-r
	d Matrix (S6)			Bright Loar	ny Soils	(F20) (MLF	RA 149A, 153C, 153	ID)
	urface (S7) (LRR P,				4	-(C		
Restrictive	Layer (if observed)):						5794
Type:			<u> </u>					
Depth (ir	nches):						Hydric Soil Pres	sent? Yes V No No
Remarks:					100			
								+
				*				į.
1								
3								
e.								
								3 8
	8							



 $We tland\ data\ point\ wwip 007 f_w\ facing\ southwest.$

Project/Site: ACP	City/County: Wilson Sampling Date: 7/8/14
Applicant/Owner: Dominion	State: NL Sampling Point: Wwip 007 - u
Investigator(s): ESI LL Roper)	
	Local relief (concave, convex, none): Concave Slope (%): 5-47
- /1	1.1734 Long: 78.1167 Datum: W6584
0	NWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time of you	
Are Vegetation, Soil, or Hydrology significantly	ly disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally pr	oroblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	In the Country Asses
Hydric Soil Present? Yes No	Is the Sampled Area within a Wetland? Yes No
Wetland Hydrology Present? Yes No	within a wedand?
Remarks:	
	,
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply	y) Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B	
High Water Table (A2) High Water Table (A2)	The state of the s
Saturation (A3) Hydrogen Sulfide	- CANCELLO CONTRACTOR - CONTRAC
	pheres along Living Roots (C3) Dry-Season Water Table (C2) duced Iron (C4) Crayfish Burrows (C8)
	luction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface	
Iron Deposits (B5) Other (Explain in	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
☐ Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes NoDepth (inche	
Water Table Present? Yes NoDepth (inches	
Saturation Present? Yes No Depth (inche	nes): 220 Wetland Hydrology Present? Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial pho	notos, previous inspections), if available:
23 (29 (29)	255 35 36
Remarks:	
4	
	÷
)*	"
	*
	6 8
	*_ ·
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	Abcolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30,30)	% Cover			
1 2	7000101	3	FAL	Number of Dominant Species
1. Pinus tae la	25			That Are OBL, FACW, or FAC:(A)
2. Alex rubnm	15		FAC	Total Number of Dominant
3				Species Across All Strata: (B)
			ł.	opedies Across Air Otrata.
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 87.51 (A/B)
6				
				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8.				
	40	= Total Co	ver	OBL species x1 =
50% of total cover: 2				FACW species x 2 =
	20% (1	total cose		FAC'species x 3 =
Sapling/Shrub Stratum (Plot size: 35 x 30)			_	
1. Ilex Opaca	13	<u> Ÿ</u>	FAU	FACU species x 4 =
2. Lighthambor styraciflua	15	Y	Fric	UPL species x 5 =
3. Vaccinium corymbosum			FACW	Column Totals: (A) (B)
	- 45_	<u>r</u>		()
4. PINUS TUE LAN	15	<u>.)</u>	PAC	Prevalence Index = B/A =
F.		,		
5				Hydrophytic Vegetation Indicators:
6				Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
			-	
8				☐ 3 - Prevalence Index is ≤3.01
		= Total Co		Problematic Hydrophytic Vegetation (Explain)
50% of total cover:	🏂 20% o	f total cove	er: <u>14</u>	
Herb Stratum (Plot size: 30 x30)				1
THEID Stratum (1 lot size: So Kee	20	V	DOM:	Indicators of hydric soil and wetland hydrology must
1. Aruncinario organites		_7	_ <u> </u>	be present, unless disturbed or problematic.
2	_			Definitions of Four Vegetation Strata:
3.				
				Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6				San line (Should Mandy wheats assoluting visco loss
				Sapling/Shrub - Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
				, , , , , , , , , , , , , , , , , , , ,
10		-		Woody vine - All woody vines greater than 3.28 ft in
11				height.
12				
16.	70			•
		_ = Total C	1.1	
50% of total cover:	-> 20%	of total cov	rer: <u> </u>	
Woody Vine Stratum (Plot size: 30 x 30)				
	20	M	301	
1. Smilax northalifolia			<u> </u>	
2				
				-
3.				-
4				_
5.				- Hydrophytic
	70	_ = Total (20105	Vegetation
	12		1.1	Present? Yes No
50% of total cover:	20%	of total co	ver: _ T	- 100
Remarks: (If observed, list morphological adaptations to	nelow)	_		
Transfer (ii observed, not morphological adaptations 2	,0.01.,.			
				¥
				•

Depth	(o and adparen	eeaea to aocui	nent the indicator o	r confirm th	e absence of indica	itors.)	
	Matrix			x Features	1 2 2	T4	M anager 1	
(inches)	Color (moist)		Color (moist)		Loc² _	Texture	Remarks	
0-10	51/2 25/2			·		<u>5 L</u>	 	
1100	10-1K 516	100				SCL_		
<u> </u>								
			•				•	
								
17			1 111 12 14		<u> </u>	2, ,, ,, ,,		
	oncentration, D=Dep Indicators: (Applications)				ins.	² Location: PL=Pore Indicators for Prot		ile ³ .
☐ Histosol				elow Surface (S8) (Li	2P S T 11\	1 cm Muck (A9	-	
' 	oipedon (A2)	1		urface (S9) (LRR S,		2 cm Muck (A1		
	istic (A3)	.]		ky Mineral (F1) (LRR			(F18) (outside ML	RA 150A,B)
	en Sulfide (A4)		Loamy Gley	ed Matrix (F2)		Piedmont Floor	iplain Soils (F19) (L	RR P, S, T)
	d Layers (A5)		Depleted Ma				tht Loamy Soils (F2	0)
	Bodies (A6) (LRR Pucky Mineral (A7) (LF		_	Surface (F6) ark Surface (F7)		Red Parent Ma	,	
	resence (A8) (LRR U			essions (F8)			tenai (1F2) Park Surface (TF12)	
	uck (A9) (LRR P, T)		Marl (F10) (Other (Explain		
☐ Deplete	d Below Dark Surfac	e (A11)		chric (F11) (MLRA 15	-			
	ark Surface (A12)			nese Masses (F12) (I			hydrophytic vegeta	
	rairie Redox (A16) (I Mucky Mineral (S1) (I			ace (F13) (LRR P, T, c (F17) (MLRA 151)	, U)	-	rology must be pre- rbed or problemation	
	Gleyed Matrix (S4)	LKK 0, 3)		ertic (F18) (MLRA 151)	0A. 150B)	uness ask	i bed or problematic	·•
	Redox (S5)	,		loodplain Soils (F19)		A)		
_	d Matrix (S6)		Anomalous	Bright Loamy Soils (F20) (MLRA	149A, 153C, 153D)		
	urface (S7) (LRR P, S							
i	Layer (if observed)							
Type:			_		ĺ			/
	nches):					Hydric Soil Presen	t? Yes	No_V
Remarks:								
								·
								·
								·



Upland data point wwip007_u facing northeast.

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region City/County: W; 14xx Project/Site: State: NI / Sampling Point: Wwip 008 f Applicant/Owner: Dominion Section, Township, Range: NA investigator(s): LSI Landform (hillslope, terrace, etc.): Local relief (concave, convex, none): (CONCOUCE Slope (%) Lat: 35, 6721 Long: -78,1172 Subregion (LRR or MLRA): Soil Map Unit Name: 14400 Are climatic / hydrologic conditions on the site typical for this time of year? Yes _ (If no, explain in Remarks.) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ___, Soil _____, or Hydrology ___ __ naturally problematic? (If needed, explain any answers in Remarks.) Are Vegetation ____ SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Remarks: **HYDROLOGY** Secondary Indicators (minimum of two required) Wetland Hydrology Indicators: Surface Soil Cracks (B6) Primary Indicators (minimum of one is required; check all that apply) Aquatic Fauna (B13) Sparsely Vegetated Concave Surface (B8) Surface Water (A1) Marl Deposits (B15) (LRR U) Drainage Patterns (B10) High Water Table (A2) Saturation (A3) Hydrogen Sulfide Odor (C1) Moss Trim Lines (B16) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Water Marks (B1) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Sediment Deposits (B2) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Algal Mat or Crust (B4) Thin Muck Surface (C7) Geomorphic Position (D2) Other (Explain in Remarks) Shallow Aquitard (D3) Iron Deposits (B5) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Sphagnum moss (D8) (LRR T, U) Water-Stained Leaves (B9) Field Observations: Depth (inches): _ Surface Water Present? Water Table Present? Wetland Hydrology Present? Yes ____ No V Depth (inches): Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

VEOLITION (I our otrata) — 030 3010111110 110	arries or pr	unio.		Sampling Form.
20120		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 +30)		Species?	Status	Number of Dominant Species
1. Pinus tae des	25	Y	FAL	That Are OBL, FACW, or FAC:
2. Liquidamber styracitlua	1.5		FAL	
	_ 16-3			Total Number of Dominant
3.				Species Across All Strata: (B)
4				
				Percent of Dominant Species
5			—— \	That Are OBL, FACW, or FAC: (A/B)
6				
7				Prevalence Index worksheet:
				Total % Cover of: Multiply by:
8.				
	40	= Total Co	ver	OBL species x1 =
50% of total cover: 2	2 200/ -	finial annar		FACW species x 2 =
	20% 0	i totai covei	· <u> </u>	FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 30 k30)				
1. Alex worm 2. Pinus tack	2.0	Y	FAC	FACU species x 4 =
12.	7 -	' 'Y	CACA	UPL species x 5 =
2. FINUE TALKE	<u> </u>	- - /	700	1
3. Ligaridan ber Styraciflux	15	A	FAL	Column Totals: (A) (B)
, •				
4				Prevalence Index = B/A =
5.				Hydrophytic Vegetation Indicators:
6				
				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0¹
	10	_ = Total Co		\
				Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 3	<u>~ </u>	of total cove	<u>ر حا ،</u> ،	}
Herb Stratum (Plot size: 30 x30				The state of the s
1. Arundinaria gigantes 2.	ا حصه	~/	FALM	¹ Indicators of hydric soil and wetland hydrology must
1. Hrundinovia graanter	_ <u> </u>		- MARIONA	be present, unless disturbed or problematic.
2.				Definitions of Four Vegetation Strata:
3				Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
1				
6		-		Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
1				
8				Herb - All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10.				
ł				Woody vine – All woody vines greater than 3.28 ft in
11		_		height.
12				
	1.5	_ = Total C	OVEL	
	<u> </u>		~	
50% of total cover:	20%	of total cov	er: <u> </u>	. }
Woody Vine Stratum (Plot size: 30 x 30)				•
	1/-	N	1241	
1. Vitis notundifolia	— <i>_rz</i> _		_ <u> </u>	<u>-</u>
2				_ {
3				·
3				-
4				_
5				
V	L APPER			- Hydrophytic
	1.3	= Total C	Cover	Vegetation
50% of total cover:	715 20%	of total cov	/ег:	Present? Yes No
				-
Remarks: (If observed, list morphological adaptations I	below).			
1				

Profile Desc	ription: (Describe	to the dep	th needed to docum	ent the i	ndicator	or confirm	the absence of i	ndicators.)
Depth	Matrix		Redox	Features		·		
(inches)	Color (moist)	%	Color (moist)	%	_Type ¹ _	_Loc ²	Texture	Remarks
<u>ව - පි</u>	104R 3/2	100					اكـ	
8-20	1076-4/2	95	104R5/6	5	L	M	56	
	10 10 10		10.11					
					<u></u>	_		
							-	
								
•	-							
i		. ——		<u>'</u>				
			=Reduced Matrix, MS			ains.		=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applic	able to all	LRRs, unless other	wise not	ed.)		Indicators for	Problematic Hydric Soils ³ :
☐ Histosof	(A1)		Polyvalue Bel	ow Surfa	ce (S8) (L	RR S, T, L	J) 🛄 1 cm Muc	k (A9) (LRR O)
∏ Histic E	pipedon (A2)		Thin Dark Sur	rface (S9) (LRR \$,	T, U)	2 cm Muc	k (A10) (LRR S)
_	istic (A3)		Loamy Mucky			₹ 0)		Vertic (F18) (outside MLRA 150A,B)
1 = ' -	en Sulfide (A4)		Loamy Gleye		(F2)			Floodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)		Depleted Mat					us Bright Loamy Soils (F20)
	Bodies (A6) (LRR P	-	Redox Dark S		•		□ _ (MLRA	
, , ,	ucky Mineral (A7) (LI							ent Material (TF2)
1 755	resence (A8) (LRR L	J)	Redox Depre		·8)			llow Dark Surface (TF12)
Pa	uck (A9) (LRR P, T)	***	Marl (F10) (L	•	/N D 1 /		Uther (Ex	plain in Remarks)
_	d Below Dark Surfac	e (A11)	☐ Depleted Och ☐ Iron-Mangani				T) 3Indicate	ors of hydrophytic vegetation and
	ark Surface (A12) 'rairie Redox (A16) (MI D A 1E0	=				-	ors of hydrophytic vegetation and hydrology must be present,
	Mucky Mineral (S1) (s disturbed or problematic.
	Gleyed Matrix (S4)	Lixix O, S,	Reduced Ver					s disturbed of problematic.
	Redox (S5)		Piedmont Flo		-		•	
(A)	d Matrix (S6)						, RA 149A, 153C, 1	53D)
	urface (S7) (LRR P,	S. T. U)			,	¢/ \	,,,	,
	Layer (if observed)							
Type:								,
	nches):						Hydric Soil P	resent? Yes No No No
Remarks:							17,5	
ixemaiks.								
						•		
1								
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Wetland data point wwip008f_w facing southwest.

Project/Site: ACP	City/County: Wilson Sampling Date: 118/14
Applicant/Owner: tominion	State: NC Sampling Point: wwip008_c
Investigator(s): ESI LL Ruper	Section, Township, Range: NA
Landform (hillslope, terrace, etc.): durinage	Local relief (concave, convex, none): Slope (%):
	35.6722 Long: -18.1172 Datum: WULSE
0 -	m 1.00m
Soil Map Unit Name: KAINA Sandy low	TVII diagonication.
Are climatic / hydrologic conditions on the site typical for this time	
Are Vegetation, Soil, or Hydrology signific	cantly disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology natural	lly problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map show	wing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes No Wetland Hydrology Present?	Is the Sampled Area within a Wetland? Yes No
Remarks:	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that a	
Surface Water (A1)	
1 	s (B15) (LRR U)
	ulfide Odor (C1) Moss Trim Lines (B16)
☐ Water Marks (B1) ☐ Oxidized Rhi	zospheres along Living Roots (C3) 🔲 Dry-Season Water Table (C2)
Sediment Deposits (B2)	Reduced Iron (C4)
☐ Drift Deposits (B3) ☐ Recent Iron I	Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	
	in in Remarks)
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
	Sphagnum moss (D8) (LRR T, U)
/ · · · · · / · · · · · · · · · · · · ·	inches): NP
Surface Water Present? Yes No Depth (i	
Saturation Present? Yes No Depth (inches): 7 20 Wetland Hydrology Present? Yes No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aeria	al photos, previous inspections), if available:
Remarks:	

· · · · · · · · · · · · · · · · · · ·	Absoluto	Dominant	Indicator	Demineras Test weekshoots
Tree Stratum (Plot size: 30 x 30)		Species?		Dominance Test worksheet:
	35	V		Number of Dominant Species
1. Pinus tarda			PAC	That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Species Across All Strata: (B)
				Species Across Air Strata. (D)
4.	. 			Percent of Dominant Species
5				That Are OBL, FACW, or FAC: (A/B)
6				
				Prevalence Index worksheet:
7.	. ——			Total % Cover of: Multiply by:
8				
,	30	= Total Co	ver	OBL species x 1 =
7001 C \ e		•	3 .	FACW species x 2 =
50% of total cover: \\S	20% 0	f total cove	r:	FAC species x3=
Sapling/Shrub Stratum (Plot size: 20130)				
1. Pinus taeda	30	Y	FAC	FACU species x4 =
2. Livindamber structure	. E-m	Y	FAC	UPL species x 5 =
2. In MACON DW STANDITTIRE	<u> </u>			Column Totals: (A) (B)
3. Acer rubrum!	15	. <u> </u>	FHC	Column rolais. (A)
4		•	•	5
				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				Rapid Test for Hydrophytic Vegetation
7.				
	-			2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.01
	60	_= Total Co	ver	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	2006 6	- af total cove	\ 2_	1 Tobiematic Hydrophytic Vegetation (Explain)
	20/60	n total cove	. <u> </u>	
Herb Stratum (Plot size: 30 x 30)				Indicators of hydric soil and wetland hydrology must
1. Hrundinaria greentea	N.	7	PACID	be present, unless disturbed or problematic.
1. Hrundinaria gigentea				Definitions of Four Vegetation Strata:
<u> </u>		-		Deminions of Four Vegetation Strata.
3				
				Tree - Woody plants, excluding vines, 3 in (7.6 cm) or
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
4 5				
4 5				more in diameter at breast height (DBH), regardless of height.
4. 5. 6.				more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less
4				more in diameter at breast height (DBH), regardless of height.
4				more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less
4				more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
4				more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
4				more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
4				more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
4				more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
4				more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
4		= Total C	over	more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
4		= Total C	over	more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
4		= Total C	over	more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
4		= Total C	over	more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
4		= Total C	over	more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
4		= Total C	over	more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
4. 5. 6. 7. 8. 9. 10. 11. 12. 50% of total cover: Woody Vine Stratum (Plot size: 30 × 30) 1. Toxiwdendron rudizuns 2. Smilax volundifolio		= Total C	over	more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
4. 5. 6. 7. 8. 9. 10. 11. 12. 50% of total cover: Woody Vine Stratum (Plot size: 30 x 30) 1. Toxico dendron radicans 2. Smilax volundification 3.	\S 20%	= Total C	over	more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
4. 5. 6. 7. 8. 9. 10. 11. 12. 50% of total cover: Woody Vine Stratum (Plot size: 30 × 30) 1. Toxiwdendron rudizuns 2. Smilax volundifolio	\S 20%	= Total C	over	more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
4. 5. 6. 7. 8. 9. 10. 11. 12. 50% of total cover: 7 Woody Vine Stratum (Plot size: 30 + 30) 1. Toxicodendron radicans 2. Smilax volundifolio 3. 4.	\S 20%	= Total C	over	more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height.
4. 5. 6. 7. 8. 9. 10. 11. 12. 50% of total cover: Woody Vine Stratum (Plot size: 30 x 30) 1. Toxicodendron radizans 2. Smilax volundifolio 3.	18 20% 10	_ = Total C	over er: 3	more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height.
4. 5. 6. 7. 8. 9. 10. 11. 12. 50% of total cover: 7 Woody Vine Stratum (Plot size: 30 130) 1. Toxicadendron radizans 2. Smilax volundifolio 3. 4. 5.	15 10 10	= Total Co	over ser: 3	more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
4. 5. 6. 7. 8. 9. 10. 11. 12. 50% of total cover: 7 Woody Vine Stratum (Plot size: 30 + 30) 1. Toxicodendron radicans 2. Smilax volundifolio 3. 4.	15 10 10	= Total Co	over ser: 3	more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height.
4. 5. 6. 7. 8. 9. 10. 11. 12. 50% of total cover:	\S 20% \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	= Total Co	over ser: 3	more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
4. 5. 6. 7. 8. 9. 10. 11. 12. 50% of total cover: 7 Woody Vine Stratum (Plot size: 30 130) 1. Toxicadendron radizans 2. Smilax volundifolio 3. 4. 5.	\S 20% \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	= Total Co	over ser: 3	more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
4	\S 20% \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	= Total Co	over ser: 3	more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
4	\S 20% \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	= Total Co	over ser: 3	more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
4	\S 20% \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	= Total Co	over ser: 3	more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
4	\S 20% \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	= Total Co	over ser: 3	more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
4	\S 20% \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	= Total Co	over ser: 3	more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
4	\S 20% \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	= Total Co	over ser: 3	more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
4	\S 20% \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	= Total Co	over ser: 3	more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation

Profile Description: (Describe to the depth needed to document the indicator or confi	irm the absence of indicators.)
Depth Matrix Redox Features	
(inches) Color (moist) % Color (moist) % Type ¹ Loc ²	Texture Remarks
0-15 10/63/3 100	
15-20 104/4/3 100	
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
Histosol (A1) Polyvalue Below Surface (S8) (LRR S, 7	T, U) 1 cm Muck (A9) (LRR O)
Histic Epipedon (A2) Thin Dark Surface (S9) (LRR S, T, U)	2 cm Muck (A10) (LRR S)
Black Histic (A3) Loamy Mucky Mineral (F1) (LRR O)	Reduced Vertic (F18) (outside MLRA 150A,B)
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2)	Piedmont Floodplain Soils (F19) (LRR P, S, T)
Stratified Layers (A5) Depleted Matrix (F3)	Anomalous Bright Loamy Soils (F20)
Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6)	(MLRA 153B)
5 cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7)	Red Parent Material (TF2)
Muck Presence (A8) (LRR U) Redox Depressions (F8)	☐ Very Shallow Dark Surface (TF12)
1 cm Muck (A9) (LRR P, T)	U Other (Explain in Remarks)
Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151)	
Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O	
Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U)	wetland hydrology must be present,
Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151)	unless disturbed or problematic.
Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 15	
Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA	
Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (N	MLRA 149A, 153C, 153D)
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed):	
Type:	
Depth (inches):	Hydric Soil Present? Yes No
Remarks:	
	`
·	
	•
	•
	•
	· .



Upland data point wwip008_u facing northeast.

Project/Site: Atlantic Coast Pipeline	City/Cou	ınty: Wilson		Sampling Date: 1/22/2015	
Applicant/Owner: Dominion	Sampling Point: wwia001f_w				
	Section,				
Landform (hillslope, terrace, etc.): flat					
Subregion (LRR or MLRA): P					
Soil Map Unit Name: Coxville sandy loam	Lat				
					
Are climatic / hydrologic conditions on the site typical					
Are Vegetation, Soil, or Hydrology _	significantly disturbe	d? Are "Normal	Circumstances" p	resent? Yes No	
Are Vegetation, Soil, or Hydrology _	naturally problemation	? (If needed, e	explain any answer	rs in Remarks.)	
SUMMARY OF FINDINGS - Attach site	map showing samp	ling point location	ns, transects,	important features, etc.	
Hydrophytic Vegetation Present? Yes	/ No				
	/ No	s the Sampled Area			
	No W	vithin a Wetland?	Yes	No	
Remarks: Wetland data point for a saturated PFO wetland loc	cated on a wet flat within a p	pine plantation.			
HYDROLOGY					
Wetland Hydrology Indicators:			Secondary Indicat	tors (minimum of two required)	
Primary Indicators (minimum of one is required; ch	neck all that apply)		Surface Soil (
	Aquatic Fauna (B13)		Sparsely Vegetated Concave Surface (B8)		
	Marl Deposits (B15) (LRR L	J)	Drainage Pat		
	Hydrogen Sulfide Odor (C1)		Moss Trim Li		
	Oxidized Rhizospheres alor			Vater Table (C2)	
Sediment Deposits (B2)	Presence of Reduced Iron ((C4)	Crayfish Burn	ows (C8)	
Drift Deposits (B3)	Recent Iron Reduction in Ti	lled Soils (C6)	Saturation Vis	sible on Aerial Imagery (C9)	
Algal Mat or Crust (B4)	Thin Muck Surface (C7)		Geomorphic I	Position (D2)	
Iron Deposits (B5)	Other (Explain in Remarks)		Shallow Aquit		
Inundation Visible on Aerial Imagery (B7)			FAC-Neutral		
Water-Stained Leaves (B9)			Sphagnum m	oss (D8) (LRR T, U)	
Field Observations:					
	Depth (inches):				
	Depth (inches): 5				
Saturation Present? Yes Ves No (includes capillary fringe)	Depth (inches): 0	Wetland H	lydrology Presen	t? Yes No No	
Describe Recorded Data (stream gauge, monitoring	ng well, aerial photos, previo	ous inspections), if ava	ilable:		
Remarks:					

00	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:) 1. Pinus taeda	% Cover 65	Species? Yes	Status FAC	Number of Dominant Species That Are OBL, FACW, or FAC: 7 (A)
2 Acer rubrum	5	No	FAC	That Are OBE, I AGW, OF I AG.
3. Liquidambar styraciflua	5	No	FAC	Total Number of Dominant Species Across All Strata: 7 (B)
4				Dercent of Deminent Species
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8				OBL species x 1 = 0
27.5		= Total Cov		FACW species 80 x 2 = 160
50% of total cover: 37.5	20% of	total cover:	15	112 336
Sapling/Shrub Stratum (Plot size:)				FAC species $\frac{112}{0}$ x 3 = $\frac{330}{0}$
1. Acer rubrum	10	Yes	FAC	FACU species
2. Pinus taeda	10	Yes	FAC	UPL species
3. Liquidambar styraciflua	7	Yes	FAC	Column Totals:(A)(B)
4. Magnolia virginiana	7	Yes	FACW	Prevalence Index = B/A = 2.58
5. Symplocos tinctoria	5	No	FAC	Hydrophytic Vegetation Indicators:
6. Vaccinium corymbosum	5	No	FACW	1 - Rapid Test for Hydrophytic Vegetation
7 Clethra alnifolia	3	No	FACW	2 - Dominance Test is >50%
8.				
	47	= Total Cov	er	3 - Prevalence Index is ≤3.0 ¹ 3 - Victorial 1.75 - 1.15
50% of total cover: 23.5		total cover:		Problematic Hydrophytic Vegetation ¹ (Explain)
F	20 /0 01	total cover.		
Herb Stratum (Plot size:) 1. Arundinaria gigantea	65	Yes	FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2				Definitions of Four Vegetation Strata:
3				_
4				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
5				more in diameter at breast height (DBH), regardless of height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11.				height.
12.				
	65	= Total Cov	er	
50% of total cover: 32.5		total cover:	40	
Woody Vine Stratum (Plot size:30)		total covor.		
1 Smilax rotundifolia	5	Yes	FAC	
···				
2				
3				
4				
5				Hydrophytic
50% of total cover: 2.5		= Total Cov total cover:		Vegetation Present? Yes No
30 /0 OI total cover.		total cover:		
Remarks: (If observed, list morphological adaptations below	w).			

SOIL Sampling Point: wwia001f_w

Profile Des	cription: (Describe	to the dep	th needed to docu	ment the i	ndicator	or confirm	the absence of	indicators.)			
Depth	Matrix	0/	Redox Features				Tautura				
(inches) 0-4	Color (moist) 10YR 3/1	<u>%</u> 100	Color (moist)	%	Type ¹	Loc ²	Texture SCL	Remarks			
		<u> </u>									
4-18	10YR 4/1	85	10YR 5/8	15	C	PL/M	SCL				
					-						
-	-										
	-										
¹ Type: C=C	concentration, D=Dep	letion RM=	Reduced Matrix M	S=Masked	Sand Gr	ains	² I ocation: PI	_=Pore Lining, M=Matr	ix		
	Indicators: (Applic					<u></u>		r Problematic Hydric			
Histoso	I (A1)		Polyvalue Be	elow Surfa	ce (S8) (L	.RR S. T. U	1 cm Muc	ck (A9) (LRR O)			
	pipedon (A2)		Thin Dark S					ck (A10) (LRR S)			
Black H	istic (A3)		Loamy Muck			R O)		Vertic (F18) (outside l			
	en Sulfide (A4)		Loamy Gley	,	F2)			: Floodplain Soils (F19)			
	d Layers (A5)		<u>✓</u> Depleted Ma	, ,				us Bright Loamy Soils (F20)		
-	Bodies (A6) (LRR P		Redox Dark	•	,		(MLRA				
	ucky Mineral (A7) (L l resence (A8) (LRR U							nt Material (TF2) llow Dark Surface (TF1	2)		
	uck (A9) (LRR P, T)	")	Redox Depression Marl (F10) (I		0)			plain in Remarks)	2)		
	d Below Dark Surfac	e (A11)	Depleted Oc		(MLRA 1	51)	Outer (Ex	plain in remarks)			
	ark Surface (A12)	- ()	Iron-Mangar	, ,	•	•	r) ³ Indicate	ors of hydrophytic vege	tation and		
Coast F	Prairie Redox (A16) (I	MLRA 150 <i>A</i>	-					nd hydrology must be p			
Sandy I	Mucky Mineral (S1) (LRR O, S)	Delta Ochric	(F17) (ML	RA 151)		unless	disturbed or problema	itic.		
	Gleyed Matrix (S4)		Reduced Ve								
-	Redox (S5)		Piedmont Fl					\			
	d Matrix (S6)	C T 11)	Anomalous I	Bright Loar	my Soils (F20) (MLRA	A 149A, 153C, 1	53D)			
	urface (S7) (LRR P, S Layer (if observed)										
Type: no	ne	•									
							Hydric Soil Pr	esent? Yes	No		
	iches):						nyuric 30ii Fi	esent: res	NO		
Remarks:											
ĺ											



Photo 1 Wetland data point wwia001f_w facing north



Photo 2
Wetland data point wwia001f_w facing south

Project/Site: Atlantic Coast Pipeline	City/Co	ounty: Wilson		Sampling Date: <u>1/22/2015</u>		
Applicant/Owner: Dominion State: NC Sampling Point: V						
Investigator(s): GB, RH	Section					
Landform (hillslope, terrace, etc.): flat						
Subregion (LRR or MLRA): P Lat: 35.67110744 Long: -78.11910361 Datum: WGS 19 Soil Map Unit Name: Coxville sandy loam NWI classification: None						
	-i					
Are climatic / hydrologic conditions on the site ty						
Are Vegetation, Soil, or Hydrolog						
Are Vegetation, Soil, or Hydrolog	y naturally problemat	ic? (If needed, e	xplain any answe	rs in Remarks.)		
SUMMARY OF FINDINGS – Attach s	ite map showing sam	pling point locatio	ns, transects	, important features, etc.		
Hydrophytic Vegetation Present? Yes	✓ No	la the Compled Area				
Hydric Soil Present? Yes	No <u> </u>	Is the Sampled Area within a Wetland?	Ves	No ✓		
Wetland Hydrology Present? Yes	No <u> </u>	within a wettand:	163			
Remarks: Upland data point taken within a pine plantation	for a saturated PFO wetland.					
LIVED OF COX						
HYDROLOGY			Cocondon, Indica	tora (minimum of two required)		
Wetland Hydrology Indicators:	: abook all that apply)		<u>-</u>	otors (minimum of two required)		
Primary Indicators (minimum of one is required			Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8)			
	Aquatic Fauna (B13) Marl Deposits (B15) (LRR		Drainage Patterns (B10)			
	Hydrogen Sulfide Odor (C		Drainage Pa Moss Trim Li			
	_ Trydrogen Suinde Sdor (C_ Oxidized Rhizospheres ald			Water Table (C2)		
	Presence of Reduced Iron		Crayfish Bur			
	Recent Iron Reduction in T			sible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	_ Thin Muck Surface (C7)		Geomorphic	Position (D2)		
Iron Deposits (B5)	_ Other (Explain in Remarks	5)	Shallow Aqu	itard (D3)		
Inundation Visible on Aerial Imagery (B7)			FAC-Neutral			
Water-Stained Leaves (B9)			Sphagnum n	noss (D8) (LRR T, U)		
Field Observations:	V 5 4 6 1 3					
<u> </u>	Depth (inches):					
	Depth (inches): 18 Depth (inches): 16	Wedler dit	_ Wetland Hydrology Present? Yes No _ ✓			
Saturation Present? Yes No (includes capillary fringe)	Deptn (Inches):	wetland H	yarology Preser	t? Yes No		
Describe Recorded Data (stream gauge, monit	oring well, aerial photos, prev	ious inspections), if avai	lable:			
Remarks:						
insufficient hydrology indicators present						

00	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:)		Species?		Number of Dominant Species
1. Pinus taeda	50	Yes	FAC	That Are OBL, FACW, or FAC: 6 (A)
2. Liquidambar styraciflua	15	Yes	FAC	Total Number of Dominant
3. Acer rubrum	5	No	FAC	Species Across All Strata: 7 (B)
4. Quercus nigra	3	No	FAC	
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 85.71428571 (A/B)
6				(102)
7.				Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
o	73	= Total Cov		OBL species0 x 1 =0
50% of total cover: 36.5		total cover	146	FACW species5
	20 /6 01	lotal cover	•	FAC species 147 x 3 = 441
Sapling/Shrub Stratum (Plot size:15) 1 Liquidambar styraciflua	17	Yes	FAC	FACU species 10 x 4 = 40
2. Acer rubrum	15	Yes	FAC	UPL species 0 x 5 = 0
				Column Totals: 162 (A) 491 (B)
3. Symplocos tinctoria		No No	FAC	Column Totals (A) (B)
4. Vaccinium corymbosum	5	No	FACW	Prevalence Index = B/A =3.03
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0¹
	44	= Total Cov	/er	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 22	20% of	total cover	. 8.8	Floblematic Hydrophytic Vegetation (Explain)
Herb Stratum (Plot size: 5)				1
1 Andropogon virginicus	10	Yes	FAC	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
"				
2				Definitions of Four Vegetation Strata:
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9.				of size, and woody plants less than 3.28 ft tall.
10				
44				Woody vine – All woody vines greater than 3.28 ft in
				height.
12	10	= Total Cov		
50% of total cover: 5			_	
50% of total cover.	20% of	total cover	: <u> </u>	
Woody Vine Stratum (Plot size: 30)	25	V	EAC	
1. Gelsemium sempervirens	25	Yes	FAC	
2. Lonicera japonica	10	Yes	FACU	
3				
4				
5.				Hydrophytic
	35	= Total Cov	/er	Vegetation
50% of total cover:17.5		total cover	-	Present? Yes No
Remarks: (If observed, list morphological adaptations below		10101 00101	·	
Remarks. (II observed, list morphological adaptations below	w).			

SOIL Sampling Point: wwia001_u

Profile Desc	cription: (Describe	to the depth	needed to docu	ment the i	indicator	or confirm	the absence of	f indicato	ors.)	
Depth	Matrix	0/		ox Feature		12	T 4		Dl	
(inches) 0-6	Color (moist) 10YR 2/2		Color (moist)	%	Type ¹	Loc ²	<u>Texture</u> SL		Remarks	
6-18	10YR 5/6	100					SCL			
		· — — —								
	-	· -								
¹Type: C=C	oncentration, D=Dep	letion, RM=R	educed Matrix, M	S=Masked	d Sand Gr	ains.	² Location: F	PL=Pore L	ining, M=Mat	trix.
	Indicators: (Applic						Indicators f			
Histosol	(A1)		Polyvalue B	elow Surfa	ice (S8) (L	.RR S, T, U) 1 cm Mu	ıck (A9) (L	RR O)	
Histic E	pipedon (A2)		Thin Dark S					ıck (A10)	(LRR S)	
Black H	istic (A3)		Loamy Mucl	ky Mineral	(F1) (LRR	(O)				MLRA 150A,B)
	en Sulfide (A4)		Loamy Gley		(F2)					9) (LRR P, S, T)
	d Layers (A5)		Depleted Ma					_	Loamy Soils	(F20)
_	Bodies (A6) (LRR P		Redox Dark					A 153B)	:-L /TEO\	
	ucky Mineral (A7) (LF		Depleted Da					ent Mater		(12)
	esence (A8) (LRR U uck (A9) (LRR P, T)	')	Redox Depr Marl (F10) (0)			allow Dark Explain in F	(Surface (TF	12)
l '	d Below Dark Surfac	e (A11)	Depleted Oc		(MLRA 1	51)	Other (E	.xpiaiii iii i	(Ciliaiks)	
-	ark Surface (A12)	- ()	Iron-Mangar				T) ³ Indica	tors of hyd	drophytic veg	etation and
l '	rairie Redox (A16) (I	MLRA 150A)			. , .		•	-	ogy must be	
Sandy N	Mucky Mineral (S1) (I	_RR O, S)	Delta Ochric	(F17) (ML	_RA 151)		unles	s disturbe	d or problem	atic.
	Sleyed Matrix (S4)		Reduced Ve							
· ·	Redox (S5)		Piedmont FI							
	Matrix (S6)		Anomalous	Bright Loai	my Soils (F20) (MLR	A 149A, 153C,	153D)		
	rface (S7) (LRR P, S						1			
Type: no	Layer (if observed): ne									
			<u>—</u>							🗸
	ches):		_				Hydric Soil F	resent?	Yes	No
Remarks:										
1										



Photo 1 Upland data point wwia001_u facing north



Photo 2 Upland data point wwia001_u facing south

Project/Site: ACC C	County: Wilson	Sampling Date: 5/21/15
Applicant/Owner: Dominion	State: NC	Sampling Date: 5/21/15 Sampling Point: Www.pol9f-w
Investigator(s): ESI-J. Harbour, K. MUIPhvey s	tion, Township, Range: NA	Outripling : Unit
Landform (hillstope, terrace, etc.): DYALOGE WAS	al relief (concave convex none): 60	ncave sinne (%). U-2
Landform (hillslope, terrace, etc.): Drainage Way Subregion (LRR or MLRA): LRRT Lat: 35, 6	2495 Long - 78 12	086 Potum: \2)65 %
Soil Map Unit Name: TO Shot Loam	Long.	Datum. VV-3
Soil Map Unit Name: TOISNOT LOAM Are climatic / hydrologic conditions on the site typical for this time of year	NVVI CI	assification: 1 1 0
	Yes No (If no, explai	n in Remarks.)
Are Vegetation, Soil, or Hydrology significantly di		ces" present? Yes No
Are Vegetation, Soil, or Hydrology naturally prob	matic? (If needed, explain any a	answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing s	mpling point locations, trans	ects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wes No No No No No No No No No No No No No	is the Sampled Area within a Wetland? Yes	No
Remarks:		
HYDROLOGY		
Wetland Hydrology Indicators:		Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		e Soil Cracks (B6)
Surface Water (A1) High Water Table (A2) Aquatic Fauna (B13) Marl Deposits (B15)		ely Vegetated Concave Surface (B8)
☐ High Water Table (A2) ☐ Marl Deposits (B15) ☐ Hydrogen Sulfide Od		ge Patterns (B10) Frim Lines (B16)
	· · · 	eason Water Table (C2)
Sediment Deposits (B2)		sh Burrows (C8)
Drift Deposits (B3)		tion Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	·	orphic Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in Re		w Aquitard (D3)
Intrindation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)		leutral Test (D5)
Field Observations:	<u> </u>	num moss (D8) (LRR T, U)
Surface Water Present? YesNo Depth (inches):	JA	
Water Table Present? Yes No Depth (inches):	usface	
Saturation Present? Yes No Depth (inches):	Wetland Hydrology F	Present? Yes No No
(includes capillary fringe)		
Describe Recorded Data (stream gauge, monitoring well, aerial photos	previous inspections), if available:	
Remarks:	<u> </u>	
		İ
		Sant Caret (1)

- 2061 × 3081		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 308+ X 308+		Species?		Number of Dominant Species That Are OBL FACW or FAC: (A)
1. Liciobendon tulipitera	15		FACU	That Are OBL, FACW, or FAC: (A)
2. Acer rubium	_5	<u>\lambda</u>	FAC	Total Number of Dominant
3. Magnotia Virginiana	10		FACW	Species Across All Strata: (B)
4				Devent of Deminent Opening
5				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6				
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
1 111	30	= Total Co	ver	OBL species x 1 =
50% of total cover: <u>15</u>				FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30 Ft X 30 Ft)			· ·	FAC species x 3 =
1. Ligustrum sinense	10	У	2A7	FACU species x 4 =
2. Magnopia Virginiana	5	-	FACW	UPL species x 5 =
3. Liquidambar Stylaciflua	<u> </u>	$\overline{}$	FAC	Column Totals: (A) (B)
,			11,0	(-)
				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				☐ 3 - Prevalence Index is ≤3.01
		= Total Co		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 10	20% o	f total cove	r: <u> </u>	
Herb Stratum (Plot size: 3084 × 3084				¹ Indicators of hydric soil and wetland hydrology must
1. Woodwardia areolata	20	У	OBL	be present, unless disturbed or problematic.
2. Microstegium vimineum	.5	N	FAC	Definitions of Four Vegetation Strata:
3. A Modinaria gigantea	5	N	FACW	
4. SAUTUVUS CERNUUS	10	4	OBL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
				more in diameter at breast height (DBH), regardless of height.
5				
6				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7				than 3 in. DBH and greater than 3.26 it (1 in) tail.
8				Herb – All herbaceous (non-woody) plants, regardless
9	-	· 	- 	of size, and woody plants less than 3.28 ft tall.
ł .				Woody vine - All woody vines greater than 3.28 ft in
11				height.
12.				
	40	= Total Co	over	
50% of total cover: 20	20% o	of total cove	er: <u>8</u>	
Woody Vine Stratum (Plot size: 30 8+ × 30 5+				
1. <u>Smilax</u> rotandifolia	_ 5	<u> </u>	FAC	
2. VITIS COTUNGIFOLIA	S	У	FAC	· .
3.				İ
4.				
5				
o	10	- T-4-1 O		Hydrophytic
500/ 51.1.		_= Total Co	_	Vegetation Present? Yes No
50% of total cover:		of total cove	er: _	
Remarks: (If observed, list morphological adaptations bel	ow).			
1				

Profile Description: (Describe to the depth ne	eded to document the	indicator or confirm	the absence of indi	cators.)
Depth <u>Matrix</u>	Redox Feature			
	olor (moist) %	Type ¹ Loc ²	<u>Texture</u>	Remarks
0-20 104R2/1 100			Sit L	
,				
				
				
		·		
		·	· · · · · · · · · · · · · · · · · · ·	
_ 		· ,		
¹ Type: C=Concentration, D=Depletion, RM=Red	uced Matrix, MS=Masked	Sand Grains.		ore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all LRR	s, unless otherwise not	ed.)	Indicators for Pro	oblematic Hydric Soils³:
. ☐ Histosol (A1)	Polyvalue Below Surfa			
Histic Epipedon (A2)	Thin Dark Surface (S9		2 cm Muck (A	
Black Histic (A3)	Loamy Mucky Mineral			tic (F18) (outside MLRA 150A,B)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix	(F2)		odplain Soils (F19) (LRR P, S, T)
Stratified Layers (A5)	Depleted Matrix (F3)			right Loamy Soils (F20)
Organic Bodies (A6) (LRR P, T, U)	Redox Dark Surface (F	•	(MLRA 153	*
5 cm Mucky Mineral (A7) (LRR P, T, U)	Depleted Dark Surface		Red Parent M	
Muck Presence (A8) (LRR U)	Redox Depressions (F	8)		Dark Surface (TF12)
1 cm Muck (A9) (LRR P, T)	Marl (F10) (LRR U)	(NEL DA 454)	U Other (Explai	n in Remarks)
Depleted Below Dark Surface (A11) Thick Dark Surface (A12)	☐ Depleted Ochric (F11) ☐ Iron-Manganese Mass		D 31mail:	d bod-obs de os os sets
Coast Prairie Redox (A16) (MLRA 150A)				of hydrophytic vegetation and ydrology must be present,
Sandy Mucky Mineral (S1) (LRR O, S)	Delta Ochric (F17) (MI			turbed or problematic.
Sandy Gleyed Matrix (S4)	Reduced Vertic (F18)		uriless dis	turbed or problematic.
Sandy Redox (S5)	Piedmont Floodplain S		ΡΔ	
Stripped Matrix (S6)	Anomalous Bright Loa			١
Dark Surface (S7) (LRR P, S, T, U)	<u></u>	my conc (i zo) (mara		,
Restrictive Layer (if observed):			· · · · · · · · · · · · · · · · · · ·	
Type:				
Depth (inches):			Hydric Soil Prese	nt? Yes No
Remarks:			nyunc son Prese	itr res No
Remarks.				
				·
				İ
	•			



Wetland data point wwip019f_w facing east.



Wetland data point wwip019f_w facing west.

Project/Site: ACP	City/County: Wilson Sampling Date: 5/21/15
Applicant/Owner: Dominion	State: NC Sampling Point: WW19019-U
Investigator(s): ESI-J. Harrour, K. Murphrey	Section, Township, Range: Nt
Landform (hillslope, terrace, etc.): hillSlope	Local relief (concave, convex, none): CONEX Slope (%): 2-4 .66496
Subregion (LRR or MLRA): LRRT Lat: 35.	.66496 Long: -78.12090 Datum: 1,765 8
Soil Map Unit Name: Toisnut Loam	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of y	· · · · · · · · · · · · · · · · · · ·
Are Vegetation, Soil, or Hydrology significantl	
Are Vegetation, Soil, or Hydrology naturally p	
•	ng sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	
Hydric Soil Present? Yes No	Is the Sampled Area
Wetland Hydrology Present? Yes No	within a Wetland? Yes No
Remarks:	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply	ly) Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B	(B13) Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) High Warl Deposits (B	
Saturation (A3) Hydrogen Sulfide	
☐ Water Marks (B1) ☐ Oxidized Rhizosp ☐ Sediment Deposits (B2) ☐ Presence of Red	spheres along Living Roots (C3)
	duction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface	
☐ Iron Deposits (B5) ☐ Other (Explain in	i i i i i i i i i i i i i i i i i i i
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
☐ Water-Stained Leaves (B9) Field Observations:	☐ Sphagnum moss (D8) (LRR T, U)
Surface Water Present? Yes No Depth (inche	nes): NA
Surface Water Present? Yes No Depth (inche Water Table Present? Yes No Depth (inche Present)	nes): >20''
Saturation Present? Yes No Depth (inche	hes): 720'' Wetland Hydrology Present? Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial pho	hotos previous inspections) if available:
a source base (or source gauge) montaining from a source p.m.	istor, provided inopositority, it diffanable.
Remarks:	
	•

Tree Stratum (Plot size: 305+X3054)	% Cover	Dominant Species?	Status	Dominance Test worksheet: Number of Dominant Species
1. Liciodend on turipife ca	20		FACU	That Are OBL, FACW, or FAC: (A)
2. Liquidambor Sturacitlua 3.		<u> </u>	FAC	Total Number of Dominant Species Across All Strata: (B)
4				,,
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 57% (A/B)
6				(745)
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
	25	= Total Cov	rer	OBL species x 1 =
50% of total cover: <u>(2, -</u>	<u>≤</u> 20% of	f total cover:	:_5	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30 F4 X30F4	_			FAC species x 3 =
1. Liviodendoun tulipifera	_5_	$\overline{\lambda}$	FACU	FACU species x 4 =
2				UPL species x 5 =
3				Column Totals: (A) (B)
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				☐ 3 - Prevalence Index is ≤3.0 ³
	5	= Total Cov	/er	l
50% of total cover: 2 - 5		f total cover		Problematic Hydrophytic Vegetation ¹ (Explain)
Herb Stratum (Plot size: 30 F1×30F4)		1 10101 00101		The state of the s
1. Microstegion vimeniam	20	У	FAC	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Phytolocia americana	5	$\overline{\mathcal{L}}$		Definitions of Four Vegetation Strata:
3.			111001	Johnson of Four Vegetation Strata.
4				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
				more in diameter at breast height (DBH), regardless of height.
5				
6 7				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
9				
10				Woody vine – All woody vines greater than 3.28 ft in
12	-			height.
12.	25	= Total Co		
50% of total cover: <u>(2,</u>				
Woody Vine Stratum (Plot size: 30をも ×30をも	<u></u> 20% 0	i lotal cover	· ——	
1. Smilax votandifolia	5	V	FAC	
2. Vitis rotandifolia	<u> </u>	- 7	FAC	
2. 41113 1110110110110		·	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ 	
J				
	· 	·		
5	· ——			Hydrophytic
2 6		= Total Co	ver L.	Vegetation Present? Yes No
50% of total cover: <u>3 - 5</u>		f total cove	r: 15" 1	
Remarks: (If observed, list morphological adaptations beli	ow).			
·				

Depth	Matrix (1)	Redox Features	
(inches)	Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture Remarks
			<u> </u>
<u>3-20</u>	104R4/4		fine sond
			2
	oncentration, D=Depletion, RM=F Indicators: (Applicable to all L	Reduced Matrix, MS=Masked Sand Grains.	² Location: PL=Pore Lining, M=Matrix.
	• • •		Indicators for Problematic Hydric Soils ³ :
Histosol	pipedon (A2)	Polyvalue Below Surface (S8) (LRR S, T, U Thin Dark Surface (S9) (LRR S, T, U)	I)
3444	istic (A3)	Loamy Mucky Mineral (F1) (LRR O)	Reduced Vertic (F18) (outside MLRA 150A,B)
=	en Sulfide (A4)	Loamy Gleyed Matrix (F2)	Piedmont Floodplain Soils (F19) (LRR P, S, T)
= '	d Layers (A5)	Depleted Matrix (F3)	Anomalous Bright Loamy Soils (F20)
	Bodies (A6) (LRR P, T, U)	Redox Dark Surface (F6)	(MLRA 153B)
☐ 5 cm Mi	ucky Mineral (A7) (LRR P, T, U)	Depleted Dark Surface (F7)	Red Parent Material (TF2)
_	resence (A8) (LRR U)	Redox Depressions (F8)	Very Shallow Dark Surface (TF12)
_	ick (A9) (LRR P, T)	Mari (F10) (LRR U)	U Other (Explain in Remarks)
	d Below Dark Surface (A11)	Depleted Ochric (F11) (MLRA 151)	- 3. u
==	ark Surface (A12)	Iron-Manganese Masses (F12) (LRR O, P,	
_	rairie Redox (A16) (MLRA 150A) ⁄iucky Mineral (S1) (LRR O, S)	Umbric Surface (F13) (LRR P, T, U) Delta Ochric (F17) (MLRA 151)	wetland hydrology must be present, unless disturbed or problematic.
	Gleyed Matrix (S4)	Reduced Vertic (F18) (MLRA 150A, 150B)	•
=	Redox (S5)	Piedmont Floodplain Soils (F19) (MLRA 14	
_	Matrix (S6)	Anomalous Bright Loamy Soils (F20) (MLR	•
	ırface (S7) (LRR P, S, T, U)	_ , , , ,	, , , , , , , , , , , , , , , , , , , ,
Restrictive	Layer (if observed):		
Type:		<u> </u>	
Depth (in	ches):		Hydric Soil Present? Yes No
Remarks:			
ı			



Upland data point wwip019_u facing east.



Upland data point wwip019_u facing north.

Project/Site: A CP	City/County: Wilson Sampling Date: 4120/15
Applicant/Owner: Dominion	State: NC Sampling Point: Www.p013f_w
Investigator(s): EST (Roser, Turnbull)	Saction Township Banga: NOVE
	Local relief (concave, convex, none): None Slope (%): D-21/
	1.66351 Long: -78.12480 Datum: W6584
Soil Map Unit Name: Kains Sandy lown	NWI classification: PFO
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 significantl	ly disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally p	oroblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showin	ng sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes No No No No No No No No No No No No No	Is the Sampled Area within a Wetland? Yes No
Remarks:	
Rain within 24 hrs.	
LIVEROLOGY	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply	
Surface Water (A1) Aquatic Fauna (B	
Saturation (A3) Main Deposits (B) Hydrogen Sulfide	
	pheres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Red	
	uction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	
Iron Deposits (B5) Other (Explain in	Remarks) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
☐ Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No Depth (inche	· · · · · · · · · · · · · · · · · · ·
Water Table Present? Yes No Depth (inches	
Saturation Present? Yes No Depth (inche (includes capillary fringe)	es): Surface Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial pho	otos, previous inspections), if available:
Remarks:	
portions of wetland inundated	
\	
·	
	l

	Absoluto	Dominant	Indicator	Dominance Test worksheet
Tree Stratum (Plot size: 30ff x30ff)		Species?		Dominance Test worksheet:
1 Tlay a Sur	10	A I	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
1. Ilex opaca		-12-		That Are OBL, FACW, or FAC: (A)
2. Pinos tarda	25		FAC	Total Number of Dominant
3. Liquidanbar styruiflua	20	ď	FAC	Species Across All Strata: S(B)
	·			Opedes Adross Air Strata (B)
				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
6				(40)
				Prevalence Index worksheet:
7	· ———			
8				
	<u>55</u> = Total Cover			OBL species x 1 =
50% of total cove <u>r; 27,</u>	FACW species x 2 =			
30% of total cover: 27	FAC species x 3 =			
Sapling/Shrub Stratum (Plot size: 30H x30H)				
1. Vallinium Corymbostim	15	N	FALW	FACU species x 4 =
				UPL species x 5 =
3	·			Column Totals: (A) (B)
4				Decordance to d. D.C.
				Prevalence index = B/A =
5				Hydrophytic Vegetation Indicators:
6	- 		_	Rapid Test for Hydrophytic Vegetation
7				Tapid rest to Hydrophytic vegetation
				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.01
	15	= Total Co	ver _	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 11	5 20% of	total cove	. 3	En Troblematic Trydrophytic vegetation (Explain)
Herb Stratum (Plot size: 30ff x30ff)	207001	total cove		
				¹Indicators of hydric soil and wetland hydrology must
1. Vaccinium Corumbosum	_\5	<u> </u>	FACW	be present, unless disturbed or problematic.
)		•	_	Definitions of Four Vegetation Strata:
1				Definitions of Four Vegetation Strata:
3	·			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6				Sapting/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb - All herbaceous (non-woody) plants, regardless
9	. —			of size, and woody plants less than 3.28 ft tall.
10				
11				Woody vine - All woody vines greater than 3.28 ft in
11			· — —	height.
12.				1
	15	= Total Co	ver	
50% of total cover:		f total cove		
50% of total cover: 71	<u>-</u> 20% 0	i total cove	·:	
Woody Vine Stratum (Plot size: 30年 x30年)	_			
1. Smilax rotun difolia	کا	Y	FAC	!
				,
2				·
3				
4				
5				Hydrophytic _
 .	15	= Total Co	ver	Vegetation
50% of total cover: 7	Present? Yes No			
		i lotal Cove	·	
Remarks: (If observed, list morphological adaptations bel	ow).			
1				
				•
i .				

Profile Desc	ription: (Describe	to the depth	n needed to docum	nent the i	ndicator	or confirm	the absence of in	dicators.)	\neg	
Depth	Matrix			x Features						
(inches)	Color (moist)	%	Color (moist)	%	Type'	_Loc ²	Texture	Remarks		
0-6	2.5141	106					SL			
6-20	2,5 45/1	100					SL		_	
									-	
									-	
									_	
									_	
									-	
									-	
	oncentration, D=Dep					ains,		Pore Lining, M=Matrix.		
Hydric Soil I	ndicators: (Applic	able to all L			•			Problematic Hydric Soils ³ :	- }	
Histosol			Polyvalue Be				1 cm Muck	(A9) (LRR O)		
· 🖃 ·	pipedon (A2)		🔲 Thin Dark Su					(A10) (LRR S)		
Black Hi	. ,		Loamy Muck			l O)		ertic (F18) (outside MLRA 150A,		
	n Sulfide (A4)		Loamy Gleye		(F2)			loodplain Soils (F19) (LRR P, S, T	ר) (ו	
	Layers (A5)		Depleted Ma				Anomalous Bright Loamy Soils (F20)			
	Bodies (A6) (LRR P		Redox Dark	•	•		(MLRA 1			
	icky Mineral (A7) (Ll esence (A8) (LRR L		Depleted Day		` '					
	esence (A6) (LRR (ick (A9) (LRR P, T)	וי	Redox Depre	•	0)			w Dark Surface (1F12) ain in Remarks)		
! i	Below Dark Surfac	- (Δ11)	Depleted Ocl	•	/MI PA 1	51\	Other (Expi	am in Remarks)	ŀ	
) 	ark Surface (A12)	~ (())	Iron-Mangan		•	•	D ³ Indicators	s of hydrophytic vegetation and		
	rairie Redox (A16) (I	MLRA 150A						hydrology must be present,	- 1	
	lucky Mineral (S1) (Delta Ochric			, -,		listurbed or problematic.		
	leyed Matrix (S4)	, ,	Reduced Ver		•	0A, 150B)		, , , , , , , , , , , , , , , , , , ,		
│	tedox (S5)		Piedmont Flo		-	-	9A)			
	Matrix (S6)		Anomalous E	Bright Loan	my Soils (F20) (MLR/	A 149A, 153C, 153	BD)	- 1	
Dark Su	rface (S7) (LRR P, s	S, T, U)								
Restrictive I	ayer (if observed)	:			•					
Туре:									- 1	
Depth (inc	ches):						Hydric Soil Pres	sent? Yes V No		
Remarks:							l		-	
									1	
]	
[
									Ì	
]										
									Ì	
1										
	·-									



Wetland data point wwip013f_w facing southwest.

WETLAND DETERMINATION DATA	FORM – Atlantic and Gulf Coastal Plain Region
Project/Site: ACP	City/County: Wilson Sampling Date: 7/15/14
Applicant/Owner: Dominion	State: NC Sampling Point: www pol3e-
Investigator(s): ESI (R. Turnbull)	Section, Township, Range: NA
Landform (hillslope, terrace, etc.): 804	Local relief (concave, convex, none): That Slope (%): 0-2
Subregion (LRR or MLRA): LRR P Lat: 35	.65332 Long: -78.13076 Datum: W6584
Soil Map Unit Name: Rains Sandy Loam	NWI classification: PEM
Are climatic / hydrologic conditions on the site typical for this time of y	
Are Vegetation, Soil, or Hydrology significantly	
Are Vegetation, Soil, or Hydrology naturally p	
SUMMARY OF FINDINGS – Attach site map showin	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: Powerline easement	- within a Watland?
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply	·
Surface Water (A1) Aquatic Fauna (B	
High Water Table (A2) Saturation (A3) Marl Deposits (B' Hydrogen Sulfide	
	oheres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Red	uced Iron (C4)
	uction in Tilled Soils (C6)
☐ Algal Mat or Crust (B4) ☐ Thin Muck Surfact ☐ Iron Deposits (B5) ☐ Other (Explain in	- ' ' ' - ' - ' - ' - ' - ' - ' - ' - '
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7)	Remarks)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? YesNo Depth (inche	1 1 1 1
Water Table Present? Yes No Depth (inche	· · · · · · /
Saturation Present? Yes Vo Depth (inche (includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial pho	otos, previous inspections), if available:
Remarks:	
,	
·	
	•
	·

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

	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 x 30)	% Cover Species? Status	1
1. none		Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2		Total Number of Dominant
3		Species Across All Strata: (B)
4		Percent of Dominant Species
5		That Are OBL, FACW, or FAC:
6		
7		Prevalence Index worksheet:
		Total % Cover of: Multiply by:
8	= Total Cover	OBL species x1 =
		FACW species x 2 =
	20% of total cover:	FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 30 × 30)		
1. NONE		FACU species x 4 =
2		UPL species x 5 =
		Column Totals: (A) (B)
3		
4		Prevalence Index = B/A =
5		Hydrophytic Vegetation Indicators:
6		1 - Rapid Test for Hydrophytic Vegetation
7		2 - Dominance Test is >50%
8		3 - Prevalence Index is ≤3.0¹
<u> </u>		
TON Shitely and		Problematic Hydrophytic Vegetation (Explain)
	20% of total cover:	
Herb Stratum (Plot size: 30 × 30)		¹ Indicators of hydric soil and wetland hydrology must
1. Carex gigantea	<u>60 4 08L</u>	be present, unless disturbed or problematic.
2. Persicaria kydropiperoides	26 4 OBL	Definitions of Four Vegetation Strata:
3. Scirpus cyperinus	70 4 ORL	
4		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4		more in diameter at breast height (DBH), regardless of height.
5		Trought.
6		Sapling/Shrub - Woody plants, excluding vines, less
7		than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8	. <u> </u>	Herb - All herbaceous (non-woody) plants, regardless
9.		of size, and woody plants less than 3.28 ft tall.
10	•	Woody vine – All woody vines greater than 3.28 ft in
11		height.
12		- {
	100 = Total Cover	
50% of total cover:	50 20% of total cover: 20	
Woody Vine Stratum (Plot size: 30 × 30)		
1. None		
		-
2		-
3		-
4		_
5.		- Hydrophytic
	= Total Cover	Vegetation
		Present? Yes No
50% of total cover:	20% of total cover:	
Remarks: (If observed, list morphological adaptation	s below).	
Maintained existing overhead ut	ility right-of-way	
Indifficultied existing overhead ut	TITE, IIGHT OI-way.	

Profile Des	cription: (Describe	to the depti	n needed to docu	ment the i	ndicator o	r confirm	the absence	of indicato	rs.)	·
Depth	Matrix			ox Feature:						
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	_Type¹	Loc ²	Texture .	1.1 . 1	<u>Remarks</u>	
0-10	107R2/1	100						- High	organic	content
10-20	2.542.5/1	100					<u>5L</u>			
•	Ť						· • • • • • • • • • • • • • • • • • • •			
				_						
			-	-						
		. —— -	<u> </u>			 ·				
					. —— .					
										 -
	oncentration, D=Dep					ins.			ining, M=Ma	
	Indicators: (Applic	able to all L							matic Hydrid	Soils ³ :
Histoso			Polyvalue B					luck (A9) (1	-	
	pipedon (A2)		Thin Dark S					luck (A10)		MI DA AFOA DI
_	listic (A3) en Sulfide (A4)		Loamy Muc			U)				MLRA 150A,B) 9) (LRR P, S, T)
	ed Layers (A5)		Depleted M		(1-2)		771	-	Loamy Soils	
	Bodies (A6) (LRR P	r. T. UI	Redox Dark	. ,	F6)			RA 153B)	would bolls	. (, 20)
	ucky Mineral (A7) (LI		Depleted D	•	•		- 1	arent Mater	ial (TF2)	
	resence (A8) (LRR U		Redox Dep						k Surface (Ti	-12)
1 cm M	uck (A9) (LRR P, T)		☐ Marl (F10)				U Other	(Explain in l	Remarks)	
	ed Below Dark Surfac	e (A11)	Depleted O				.			
	Park Surface (A12)		Iron-Manga					_	drophytic vec	
. =	Prairie Redox (A16) (a) 🔲 Umbric Sur Delta Ochri			U)		-	ogy must be	
1 = '	Mucky Mineral (S1) (Gleyed Matrix (S4)	LKK (), (3)	Reduced V			NA 150R)		ess disturbi	ed or problen	ialic.
	Redox (S5)		Piedmont F							
	d Matrix (S6)			-			A 149A, 153C	(, 153D)		•
	urface (S7) (LRR P,	S, T, U)	_	•	,		·	•		·
Restrictive	Layer (if observed)	:					T			
Type: _							1			
Depth (i	nches):		<u> </u>				Hydric Soil	Present?	Yes	No
Remarks:							<u> </u>			
			_							
ļ										
i										
										•
						,				
						,				



Wetland data point wwip013e_w facing north northeast.

	ND DETERMINAT					<u> </u>
Project/Site:ACP		City/	County:	Vilson		Sampling Date: 7/15/14
Applicant/Owner: Dom in	on				State: NC	Sampling Point: Www p 013 - U
Laurentin de la FST (16	C. MULLANGE	2(1)	tion Tournahin	Danger	A I A	
Landform (hillslope, terrace, etc.) Subregion (LRR or MLRA): LR Soil Map Unit Name: RO	: 8104	Loca	al relief (conca	ve, convex,	none): F(O)	Slope (%): 0-2
Subregion (LRR or MLRA): LR	R P	Lat: 35.64	5989	Long: _	-78.1270	7 Datum: Wは84
Soil Map Unit Name: Roin	s sanda	Loam		- `-	NWI classific	cation: NA
Are climatic / hydrologic condition	s on the site typical for	r this time of year?	Yes N		 (If no, explain in F	
Are Vegetation, Soil	or Hydrology	significantly dist	urbed?			
Are Vegetation, Soil	. or Hydrology	naturally probler	matic?		explain any answe	
SUMMARY OF FINDINGS	- Attach site m	ap snowing sa	mpung por	nt locati	ons, transects	s, important features, etc.
Hydrophytic Vegetation Present Hydric Soil Present? Wetland Hydrology Present?	t? Yes Yes Yes	No V	Is the Sam within a W	-	Yes	No
Remarks:	•		,			·
				_		
HYDROLOGY				,		
Wetland Hydrology Indicator	s:				Secondary India	ators (minimum of two required)
Primary Indicators (minimum of	one is required; chec	k all that apply)			Surface Soi	l Cracks (B6)
Surface Water (A1)		uatic Fauna (B13)			T-1	egetated Concave Surface (B8)
High Water Table (A2)		rl Deposits (B15) (L				attems (B10)
Saturation (A3)		drogen Sulfide Odo idized Rhizosphere:		Pooto (C2)	Moss Trim	Lines (B16) 1 Water Table (C2)
☐ Water Marks (B1) ☐ Sediment Deposits (B2)	1 . 1	esence of Reduced		10013 (03)	Crayfish Bu	
Drift Deposits (B3)		cent Iron Reduction		(C6)	= '	Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	_	in Muck Surface (C		` '	_	c Position (D2)
Iron Deposits (B5)	☐ Ott	her (Explain in Rem	arks)		☐ Shallow Aq	uitard (D3)
Inundation Visible on Aeria	ıl Imagery (B7)				FAC-Neutra	, ,
Water-Stained Leaves (B9)					moss (D8) (LRR T, U)
Field Observations:			A(A-			
Surface Water Present?		∠Depth (inches): _	/ / / / / / / / / / / / / / / / / / /]		
Water Table Present? Saturation Present?	Yes No	Depth (inches): _ Depth (inches): _	フえり	Wetland	Hydrology Pres	ent? Yes No
(includes capillary fringe)		- , , , , -	,			
Describe Recorded Data (stream	am gauge, monitoring	well, aerial photos,	previous inspe	ctions), if a	vailable:	
Remarks:						
			•			
				á		
					•	•
						•

Tree Stratum (Plot size: ろい(メるい)		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 50 / 50)	<u>% Cover</u>	Species?	_Status_	Number of Dominant Species /_
1. IJex oraca	30	V	FAC	That Are OBL, FACW, or FAC: (A)
2. Quercus nigra	30		FAC	
2. (650. 51-5) ((15)(6)		-7-		Total Number of Dominant
3				Species Across All Strata: (B)
4				
				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
5				That Are OBL, FACW, or FAC:
6				
7.				Prevalence Index worksheet:
				Total % Cover of: Multiply by:
8	- ((>			OBL species x1 =
		= Total Cov	/er_	
50% of total cover: _30	20% 0	f total cover	. (2	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30'X30')			·——	FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 70 / 70)	5	1.7	TAC	FACU species x4 =
1. SYMPLOCOS tinctoria	_ <u> 20</u>	<u>— A</u>	MC	
2. Clethra amisolia	40		FACW	UPL species x 5 =
•			<u> </u>	Column Totals: (A) (B)
3.				
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
				l
8	60			L 3 - Prevalence Index is ≤3.01
		= Total Co		Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 2	20% o	f total cover	_に (ス	
3() \ \ 2() \ \ \ 3() \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				
Herb Stratum (Plot size: 30 X3())	70	1/	TAZIL	Indicators of hydric soil and wetland hydrology must
1. Clethra alnifolia	<u> </u>	. <u> </u>	FACW	be present, unless disturbed or problematic.
2. Arundina (ia gigantea	5	N	アキC	Definitions of Four Vegetation Strata:
2.		. 		
3.				Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
				height.
5				
6				Sapling/Shrub - Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
				_
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				
i				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12		_		
	75	_ = Total Co	WAL	
50% of total cover: 37	7 - 23	10(a) 00	16	
1 50% of total cover: 27		of total cove	er: <u>しつ</u>	
	<u>7 J</u> 20% (
Woody Vine Stratum (Plot size: ろび ×3つ)	7, <u>)</u> 20% (
Woody Vine Stratum (Plot size: <u>30'×30'</u>)		V	E4C	
Woody Vine Stratum (Plot size: 30 ×30) 1. Smilax (OtUndi もいしの	10	<u> </u>	EAC	
Woody Vine Stratum (Plot size: <u>30'×30'</u>)		<u> </u>	FAC	
Woody Vine Stratum (Plot size: 30'×30') 1. Smilax rotund: 80160 2.		<u> </u>	FAC	
Woody Vine Stratum (Plot size: 30' x30') 1. Smilax (Otundi Fulia) 2. 3.		<u> </u>	FAC	
Woody Vine Stratum (Plot size: 30"×30") 1. Smilax rotund: 801(の 2.		<u> </u>	FAC	
Woody Vine Stratum (Plot size: 30' x30') 1. Smilax (Otundi Fulla 2. 3.		<u> </u>	FAC	Hydrophytic
Woody Vine Stratum (Plot size: 30' x30') 1. Smilax (Otundi Fulla 2. 3.		<u> </u>	EAC	Hydrophytic
Woody Vine Stratum (Plot size: 30' x30') 1. 5milax rotandi Folio 2. 3. 4. 5.	10	= Total Co	FAC POVER 2	Vegetation
Woody Vine Stratum (Plot size: 30' x30') 1. Smilax (Otundi Fulla 2. 3.	10	<u> </u>	FAC POVER 2	
Woody Vine Stratum (Plot size: 30' x 30') 1. Smilax (Otclodification) 2. 3. 4. 5. 50% of total cover:	10 S 10 20%	= Total Co	FAC POVER 2	Vegetation
Woody Vine Stratum (Plot size: 30' x30') 1. Smilax rotandi Folio 2. 3. 4. 5.	10 S 10 20%	= Total Co	FAC POVER 2	Vegetation
Woody Vine Stratum (Plot size: 30' x 30') 1. Smilax (Otundi Folio) 2. 3. 4. 5. 50% of total cover:	10 S 10 20%	= Total Co	FAC POVER 2	Vegetation
Woody Vine Stratum (Plot size: 30' x 30') 1. Smilax (Otundi Folio) 2. 3. 4. 5. 50% of total cover:	10 S 10 20%	= Total Co	FAC POVER 2	Vegetation
Woody Vine Stratum (Plot size: 30' x 30') 1. Smilax (Otundi Folio) 2. 3. 4. 5. 50% of total cover:	10 S 10 20%	= Total Co	FAC POVER 2	Vegetation
Woody Vine Stratum (Plot size: 30' x 30') 1. Smilax (Otundi Folio) 2. 3. 4. 5. 50% of total cover:	10 S 10 20%	= Total Co	FAC POVER 2	Vegetation
Woody Vine Stratum (Plot size: 30' x 30') 1. Smilax (Otundi Folio) 2. 3. 4. 5. 50% of total cover:	10 S 10 20%	= Total Co	FAC POVER 2	Vegetation
Woody Vine Stratum (Plot size: 30' x 30') 1. Smilax (Otundi Folio) 2. 3. 4. 5. 50% of total cover:	10 S 10 20%	= Total Co	FAC POVER 2	Vegetation
Woody Vine Stratum (Plot size: 30' x 30') 1. Smilax (Otundi Folio) 2 3 4 5 50% of total cover:	10 S 10 20%	= Total Co	FAC POVER 2	Vegetation

Profile Descr	iption: (Describe	to the depth r	needed to docur	nent the in	dicator	or confirm	the absence of i	ndicators.)	
Depth	Matrix			x Features		_Loc²	T4	Damando	
(inches) ()ート	Color (moist) 105 (23/3)	100 -	Color (moist)	. <u>%</u> .	Type ¹	_Loc	Texture	Remark	s
15. 14							<u> </u>		
	109R2/1	100		. ——-			<u>SL</u> _		
15-20	104R4/1	100					_ 5L		
				•					
									
	F	· —— —							
									
	ncentration, D=Dep					ains.		=Pore Lining, M=M	
l <u> </u>	ndicators: (Applic	able to all LR			•		_	Problematic Hydi	ric Soils³:
Histosol (• •		Polyvalue Be					k (A9) (LRR O)	
	ipedon (A2)		Thin Dark St					k (A10) (LRR S)	
Black His			Loamy Muck			: O)		Vertic (F18) (outsic	
	n Sulfide (A4) Layers (A5)	•	Loamy Gleye Depleted Ma	•	-2)			Floodplain Soils (F s Bright Loamy Soi	
	Bodies (A6) (LRR P	· T 11)	Redox Dark		s) ·		(MLRA		lis (F20)
· = ·	cky Mineral (A7) (LI	· · ·	Depleted Da	•	•		1 1 '	nt Material (TF2)	ļ
	esence (A8) (LRR L		Redox Depr				77	low Dark Surface (TF12)
	ck (A9) (LRR P, T)		Marl (F10) (I					plain in Remarks)	
Depleted	Below Dark Surfac	e (A11)	Depleted Oc		•	•			
	rk Surface (A12)		🔲 Iron-Mangar				-	rs of hydrophytic ve	-
	airie Redox (A16) (I		Umbric Surfa			, U)		d hydrology must b	-
	ucky Mineral (S1) (LRR O, S)	Delta Ochric		-	OA 450D		disturbed or proble	ematic.
1 =	leyed Matrix (S4) edox (S5)		Reduced Ve						
·	Matrix (S6)						RA 149A, 153C, 1:	3D)	
_	face (S7) (LRR P,	S, T, U)			,	, (, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,	
	.ayer (if observed)						1		
Туре:			_						
Depth (inc	ches):						Hydric Soil Pr	esent? Yes	No/_
Remarks:									
			•						
1									
			·						
			•						
1.									
1									



Upland data point wwip013_u facing north northwest.

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: A CP	City/County: Wilson Sampling Date: 4120/15
Applicant/Owner: Dominion	State: NC Sampling Point: Www.p013f_w
Investigator(s): EST (Roser, Turnbull)	Saction Township Banga: NOVE
	Local relief (concave, convex, none): None Slope (%): D-21/
	1.66351 Long: -78.12480 Datum: W6584
Soil Map Unit Name: Kains Sandy lown	NWI classification: PFO
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 significantl	ly disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally p	oroblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showin	ng sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes No No No No No No No No No No No No No	Is the Sampled Area within a Wetland? Yes No
Remarks:	
Rain within 24 hrs.	
LIVEROLOGY	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply	
Surface Water (A1) Aquatic Fauna (B	
Saturation (A3) Main Deposits (B) Hydrogen Sulfide	
	pheres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Red	
	uction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	
Iron Deposits (B5) Other (Explain in	Remarks) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
☐ Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No Depth (inche	· · · · · · · · · · · · · · · · · · ·
Water Table Present? Yes No Depth (inches	
Saturation Present? Yes No Depth (inche (includes capillary fringe)	es): Surface Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial pho	otos, previous inspections), if available:
Remarks:	
portions of wetland inundated	
\	
·	
	l

Λ.	Absoluto	Dominant	Indicator	Dominance Test worksheet
Tree Stratum (Plot size: 30ff x30ff)		Species?		Dominance Test worksheet:
1 Tlay object	10	A I	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
1. Ilex opaca		-12-		That Are OBL, FACW, or FAC: (A)
2. Pinos tarda	25		FAC	Total Number of Dominant
3. Liquidambar styruiflua	20	ď	FAC	Species Across All Strata: S(B)
				opedica Adrosa Air Strata (B)
				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
6				
				Prevalence Index worksheet:
7	·			Total % Cover of: Multiply by:
8	· ——			
	55	= Total Co	ver	OBL species x 1 =
50% of total cove <u>r; 27,</u>	20% 0	total cover	11	FACW species x 2 =
30% of total cover. <u>-37.</u>	<u>J</u> 2070 UI	total cover	·	FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 30H x30H)	_	. .		
1. Vallinium Corymbostim	15	N	FALW	FACU species x 4 =
		-		UPL species x 5 =
				Column Totals: (A) (B)
3	· ——			Column Totals (A) (B)
4				Decombones Index - D/A
				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				Rapid Test for Hydrophytic Vegetation
7				Cupia reservi i iyuropiiyiic vegetatioti
				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.01
	15	= Total Co	ver _	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 11	5 20% 01	total cove	_ 3	The resident and regulation (Explain)
Herb Stratum (Plot size: 30ff x30ff)	20700	total cove		
				¹Indicators of hydric soil and wetland hydrology must
1. Vaccinium Corumbosum	_\5	<u> Y</u>	FACW	be present, unless disturbed or problematic.
/		•	_	Definitions of Four Vegetation Strata:
• •				Definitions of Four Vegetation Strata:
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
				, , ,
8				Herb - All herbaceous (non-woody) plants, regardless
9	<u>. —</u>		- -	of size, and woody plants less than 3.28 ft tall.
10				
11				Woody vine - All woody vines greater than 3.28 ft in
11				height.
12.				1
	15	= Total Co	over	
50% of total cover:		f total cove	-	
50% of total cover: 11.	20% 0	i lotai cove	i	
Woody Vine Stratum (Plot size: 30+1x30+1)	_			
1. Smilax rotun difolia	15	Y	FAC	
				•
2				
3				
4				
_			·	
5				Hydrophytic
	15	= Total Co	over	Vegetation
50% of total cover:	5 200/ -		**	Present? Yes No
		i total cove	er:	
Remarks: (If observed, list morphological adaptations bel	ow).		-	

Profile Descript	tion: (Describe	to the depth	needed to document t	the indicator or confirm	the absence of ind	icators.)
Depth	Matrix		Redox Fea	tures		
<u>(inches)</u>	Color (moist)	%	Color (moist) %	<u>Type Loc²</u>	Texture	Remarks
	2.5/4/1	106			<u> </u>	
6-20	2.5 75/1	100			SL	
		 -				
		 -				
			 			
						
						
			Reduced Matrix, MS=Ma		² Location; PL=P	ore Lining, M=Matrix.
Hydric Soil Indi	cators: (Appli	cable to all L	RRs, unless otherwise	noted.)		oblematic Hydric Soils ³ :
☐ Histosol (A1)		Polyvalue Below S	urface (S8) (LRR S, T, U) 🛄 1 cm Muck (A	(LRR O)
Histic Epipe	don (A2)			(S9) (LRR S, T, U)	2 cm Muck (/	
Black Histic			Loamy Mucky Min			tic (F18) (outside MLRA 150A,B)
Hydrogen S			Loamy Gleyed Ma			odplain Soils (F19) (LRR P, S, T)
Stratified La			Depleted Matrix (F			Bright Loamy Soils (F20)
	dies (A6) (LRR I	P, T, U)	Redox Dark Surface	•	(MLRA 15:	
	Mineral (A7) (L		Depleted Dark Sur	• •		Material (TF2)
I = -	nce (A8) (LRR	-	Redox Depression			Dark Surface (TF12)
نے ن	(A9) (LRR P, T)	-	Marl (F10) (LRR U			in in Remarks)
	low Dark Surfa		Depleted Ochric (F			
) 	Surface (A12)		Iron-Manganese M	fasses (F12) (LRR O, P,	T) ³ Indicators	of hydrophytic vegetation and
🔲 Coast Prairi	e Redox (A16)	(MLRA 150A)				ydrology must be present,
Sandy Muck	ky Mineral (S1)	(LRR O, S)	Delta Ochric (F17)			sturbed or problematic.
☐ Sandy Gley	ed Matrix (S4)		Reduced Vertic (F	18) (MLRA 150A, 150B)		,
☐ Sandy Redo	ox (S5)			ein Soils (F19) (MLRA 14		
Stripped Ma	trix (S6)		Anomalous Bright	Loamy Soils (F20) (MLR.	A 149A, 153C, 153D))
Dark Surfac	e (S7) (LRR P,	S, T, U)	-			ĺ
Restrictive Lay	er (if observed):		· · · · · · · · · · · · · · · · · · ·		
Туре:						
l	s):				Hydric Soil Prese	ent? Yes No
Remarks:					Tryuno don 1 tos	103 10
Remarks.						
						•
					•	
1						
1						
1						
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1						



Wetland data point wwip013f_w facing southwest.

WETLAND DETERMINATION DATA	FORM – Atlantic and Gulf Coastal Plain Region
Project/Site: ACP	City/County: Wilson Sampling Date: 7/15/14
Applicant/Owner: Dominion	State: NC Sampling Point: www pol3e-
Investigator(s): ESI (R. Turnbull)	Section, Township, Range: NA
Landform (hillslope, terrace, etc.): 804	Local relief (concave, convex, none): That Slope (%): 0-2
Subregion (LRR or MLRA): LRR P Lat: 35	.65332 Long: -78.13076 Datum: W6584
Soil Map Unit Name: Rains Sandy Loam	NWI classification: PEM
Are climatic / hydrologic conditions on the site typical for this time of y	
Are Vegetation, Soil, or Hydrology significantly	
Are Vegetation, Soil, or Hydrology naturally p	
SUMMARY OF FINDINGS – Attach site map showin	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: Powerline easement	- within a Watland?
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply	·
Surface Water (A1) Aquatic Fauna (B	
High Water Table (A2) Saturation (A3) Marl Deposits (B' Hydrogen Sulfide	
	oheres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Red	uced Iron (C4)
	uction in Tilled Soils (C6)
☐ Algal Mat or Crust (B4) ☐ Thin Muck Surfact ☐ Iron Deposits (B5) ☐ Other (Explain in	- ' ' ' - ' - ' - ' - ' - ' - ' - ' - '
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7)	Remarks)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? YesNo Depth (inche	1 1 1 1
Water Table Present? Yes No Depth (inche	· · · · · · /
Saturation Present? Yes Vo Depth (inche (includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial pho	otos, previous inspections), if available:
Remarks:	
,	
·	
	•
	·

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

	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 x 30)	% Cover Species? Status	1
1. none		Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2		Total Number of Dominant
3		Species Across All Strata: (B)
4		Percent of Dominant Species
5		That Are OBL, FACW, or FAC:
6		
7		Prevalence Index worksheet:
		Total % Cover of: Multiply by:
8	= Total Cover	OBL species x1 =
		FACW species x 2 =
	20% of total cover:	FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 30 × 30)		
1. NONE		FACU species x 4 =
2		UPL species x 5 =
		Column Totals: (A) (B)
3		
4		Prevalence Index = B/A =
5		Hydrophytic Vegetation Indicators:
6		1 - Rapid Test for Hydrophytic Vegetation
7		2 - Dominance Test is >50%
8		3 - Prevalence Index is ≤3.0¹
<u> </u>		
TON Shitely and		Problematic Hydrophytic Vegetation (Explain)
	20% of total cover:	
Herb Stratum (Plot size: 30 × 30)		¹ Indicators of hydric soil and wetland hydrology must
1. Carex gigantea	<u>60 4 08L</u>	be present, unless disturbed or problematic.
2. Persicaria kydropiperoides	26 4 OBL	Definitions of Four Vegetation Strata:
3. Scirpus cyperinus	70 4 ORL	
4		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4		more in diameter at breast height (DBH), regardless of height.
5		Trought.
6		Sapling/Shrub - Woody plants, excluding vines, less
7		than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8	. <u> </u>	Herb - All herbaceous (non-woody) plants, regardless
9.		of size, and woody plants less than 3.28 ft tall.
10	•	Woody vine – All woody vines greater than 3.28 ft in
11		height.
12		- {
	100 = Total Cover	
50% of total cover:	50 20% of total cover: 20	
Woody Vine Stratum (Plot size: 30 × 30)		
1. None		
		-
2		-
3		-
4		_
5.		- Hydrophytic
	= Total Cover	Vegetation
		Present? Yes No
50% of total cover:	20% of total cover:	
Remarks: (If observed, list morphological adaptation	s below).	
Maintained existing overhead ut	ility right-of-way	
Indifficultied existing overhead ut	TITE, IIGHT OI-way.	

Profile Des	cription: (Describe	to the depti	n needed to docu	ment the i	ndicator o	r confirm	the absence	of indicato	rs.)	·
Depth	Matrix			ox Feature:						
(inches)	Color (moist)	<u>%</u> _	Color (moist)	%	_Type¹	Loc ²	Texture .	1.1 . 1	<u>Remarks</u>	
0-10	107R2/1	100						- High	organic	content
10-20	2.542.5/1	100			·		<u>5L</u>			
•	Ť						· • • • • • • • • • • • • • • • • • • •			
				_						
			-	-						
		. —— -	<u> </u>		· -					
					. —— .					
										 -
	oncentration, D=Dep					ins.			ining, M=Ma	
	Indicators: (Applic	able to all L							matic Hydrid	Soils ³ :
Histoso			Polyvalue B					luck (A9) (1	-	
	pipedon (A2)		Thin Dark S					luck (A10)		MI DA AFOA DI
_	listic (A3) en Sulfide (A4)		Loamy Muc			U)				MLRA 150A,B) 9) (LRR P, S, T)
	ed Layers (A5)		Depleted M		(1-2)		771	-	Loamy Soils	
	Bodies (A6) (LRR P	r. T. UI	Redox Dark	. ,	F6)			RA 153B)	would bolls	. (, 20)
	ucky Mineral (A7) (LI		Depleted D	•	•		- 1	arent Mater	ial (TF2)	
	resence (A8) (LRR U		Redox Dep						k Surface (Ti	-12)
1 cm M	uck (A9) (LRR P, T)		☐ Marl (F10)				U Other	(Explain in l	Remarks)	
	ed Below Dark Surfac	e (A11)	Depleted O				.			
	Park Surface (A12)		Iron-Manga					_	drophytic vec	
. =	Prairie Redox (A16) (a) 🔲 Umbric Sur Delta Ochri			U)		-	ogy must be	
1 = '	Mucky Mineral (S1) (Gleyed Matrix (S4)	LKK (), (3)	Reduced V			NA 150R)		ess disturbi	ed or problen	ialic.
	Redox (S5)		Piedmont F							
	d Matrix (S6)			-			A 149A, 153C	(, 153D)		•
	urface (S7) (LRR P,	S, T, U)	_	•	,		·	•		·
Restrictive	Layer (if observed)	:					T			
Type: _							1			
Depth (i	nches):		<u></u>				Hydric Soil	Present?	Yes	No
Remarks:							<u> </u>			
			_							
ļ										
i										
										•
						,				
						,				



Wetland data point wwip013e_w facing north northeast.

	ND DETERMINAT					<u> </u>
Project/Site:ACP		City/	County:	Vilson		Sampling Date: 7/15/14
Applicant/Owner: Dom in	on				State: NC	Sampling Point: Www p 013 - U
Laurentin de la FST (16	C. MULLANGE	2(1)	tion Tournahin	Danger	A I A	
Landform (hillslope, terrace, etc.) Subregion (LRR or MLRA): LR Soil Map Unit Name: RO	: F10H	Loca	al relief (conca	ve, convex,	none): F(O)	Slope (%): 0-2
Subregion (LRR or MLRA): LR	R P	Lat: 35.64	5989	Long: _	-78.1270	7 Datum: Wは84
Soil Map Unit Name: Roin	s sanda	Loam		- `-	NWI classific	cation: NA
Are climatic / hydrologic condition	s on the site typical for	r this time of year?	Yes N		 (If no, explain in F	
Are Vegetation, Soil	or Hydrology	significantly dist	urbed?			
Are Vegetation, Soil	. or Hydrology	naturally probler	matic?		explain any answe	
SUMMARY OF FINDINGS	- Attach site m	ap snowing sa	mpung por	nt locati	ons, transects	s, important features, etc.
Hydrophytic Vegetation Present Hydric Soil Present? Wetland Hydrology Present?	t? Yes Yes Yes	No V	Is the Sam within a W	-	Yes	No
Remarks:	•		,			·
				_		
HYDROLOGY				,		
Wetland Hydrology Indicator	s:				Secondary India	ators (minimum of two required)
Primary Indicators (minimum of	one is required; chec	k all that apply)			Surface Soi	l Cracks (B6)
Surface Water (A1)		uatic Fauna (B13)			T-1	egetated Concave Surface (B8)
High Water Table (A2)		rl Deposits (B15) (L				attems (B10)
Saturation (A3)		drogen Sulfide Odo idized Rhizosphere:		Pooto (C2)	Moss Trim	Lines (B16) 1 Water Table (C2)
☐ Water Marks (B1) ☐ Sediment Deposits (B2)	1 . 1	esence of Reduced		10013 (03)	Crayfish Bu	
Drift Deposits (B3)		cent Iron Reduction		(C6)	= '	Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	_	in Muck Surface (C		` '	_	c Position (D2)
Iron Deposits (B5)	☐ Ott	her (Explain in Rem	arks)		☐ Shallow Aq	uitard (D3)
Inundation Visible on Aeria	ıl Imagery (B7)				FAC-Neutra	, ,
Water-Stained Leaves (B9)					moss (D8) (LRR T, U)
Field Observations:			A(A-			
Surface Water Present?		∠Depth (inches): _	/ / / / / / / / / / / / / / / / / / /]		
Water Table Present? Saturation Present?	Yes No	Depth (inches): _ Depth (inches): _	フえり	Wetland	Hydrology Pres	ent? Yes No
(includes capillary fringe)		- , , , , -	,			
Describe Recorded Data (stream	am gauge, monitoring	well, aerial photos,	previous inspe	ctions), if a	vailable:	
Remarks:						
			•			
				á		
					•	•
						•

Tree Stratum (Plot size: ろい(メるい)		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 50 / 50)	<u>% Cover</u>	Species?	_Status_	Number of Dominant Species /_
1. IJex oraca	30	V	FAC	That Are OBL, FACW, or FAC: (A)
2. Quercus nigra	30		FAC	
2. (650. 51-5) ((15)(6)		-7-		Total Number of Dominant
3				Species Across All Strata: (B)
4				
				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
5				That Are OBL, FACW, or FAC:
6				
7.				Prevalence Index worksheet:
				Total % Cover of: Multiply by:
8	- ((>			OBL species x1 =
		= Total Cov	/er_	
50% of total cover: _30	20% 0	f total cover	. (2	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30'X30')			·——	FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 70 / 70)	5	1.7	TAC	FACU species x4 =
1. SYMPLOCOS tinctoria	_ <u> 20</u>	<u>— A</u>	MC	
2. Clethra amisolia	40		FACW	UPL species x 5 =
•			<u> </u>	Column Totals: (A) (B)
3.				
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
				l
8	60			L 3 - Prevalence Index is ≤3.01
		= Total Co		Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 2	20% o	f total cover	_{::} (ス	
3() \ \ 2() \ \ \ 3() \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				
Herb Stratum (Plot size: 30 X3())	70	1/	TAZIL	Indicators of hydric soil and wetland hydrology must
1. Clethra alnifolia	<u> </u>	. <u> </u>	FACW	be present, unless disturbed or problematic.
2. Arundina (ia gigantea	5	N	アキC	Definitions of Four Vegetation Strata:
2.		. 		
3.				Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
				height.
5				
6				Sapling/Shrub - Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
				_
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				
i				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12		_		
	75	_ = Total Co	WAL	
50% of total cover: 37	7 - 23	10(a) 00	16	
1 50% of total cover: 27		of total cove	er: <u>しつ</u>	
	<u>7 J</u> 20% (
Woody Vine Stratum (Plot size: ろび ×3つ)	7, <u>)</u> 20% (
Woody Vine Stratum (Plot size: <u>30'×30'</u>)		V	E4C	
Woody Vine Stratum (Plot size: 30 X30) 1. Smilax (Otundi Fulla	10	<u> </u>	EAC	
Woody Vine Stratum (Plot size: <u>30'×30'</u>)		<u> </u>	FAC	
Woody Vine Stratum (Plot size: 30'×30') 1. Smilax rotund: 80160 2.		<u> </u>	FAC	
Woody Vine Stratum (Plot size: 30' x30') 1. Smilax (Otundi Fulia) 2. 3.		<u> </u>	FAC	
Woody Vine Stratum (Plot size: 30"×30") 1. Smilax rotund: 801(の 2.		<u> </u>	FAC	
Woody Vine Stratum (Plot size: 30' x30') 1. Smilax (Otundi Fulla 2. 3.		<u> </u>	FAC	Hydrophytic
Woody Vine Stratum (Plot size: 30' x30') 1. Smilax (Otundi Fulla 2. 3.		<u> </u>	EAC	Hydrophytic
Woody Vine Stratum (Plot size: 30' x30') 1. 5milax rotandi Folio 2. 3. 4. 5.	10	= Total Co	FAC POVER 2	Vegetation
Woody Vine Stratum (Plot size: 30' x30') 1. Smilax (Otundi Fulla 2. 3.	10	<u> </u>	FAC POVER 2	
Woody Vine Stratum (Plot size: 30' x 30') 1. Smilax (Otclodification) 2. 3. 4. 5. 50% of total cover:	10 S 10 20%	= Total Co	FAC POVER 2	Vegetation
Woody Vine Stratum (Plot size: 30' x30') 1. Smilax rotandi Folio 2. 3. 4. 5.	10 S 10 20%	= Total Co	FAC POVER 2	Vegetation
Woody Vine Stratum (Plot size: 30' x 30') 1. Smilax (Otundi Folio) 2. 3. 4. 5. 50% of total cover:	10 S 10 20%	= Total Co	FAC POVER 2	Vegetation
Woody Vine Stratum (Plot size: 30' x 30') 1. Smilax (Otundi Folio) 2. 3. 4. 5. 50% of total cover:	10 S 10 20%	= Total Co	FAC POVER 2	Vegetation
Woody Vine Stratum (Plot size: 30' x 30') 1. Smilax (Otundi Folio) 2. 3. 4. 5. 50% of total cover:	10 S 10 20%	= Total Co	FAC POVER 2	Vegetation
Woody Vine Stratum (Plot size: 30' x 30') 1. Smilax (Otundi Folio) 2. 3. 4. 5. 50% of total cover:	10 S 10 20%	= Total Co	FAC POVER 2	Vegetation
Woody Vine Stratum (Plot size: 30' x 30') 1. Smilax (Otundi Folio) 2. 3. 4. 5. 50% of total cover:	10 S 10 20%	= Total Co	FAC POVER 2	Vegetation
Woody Vine Stratum (Plot size: 30' x 30') 1. Smilax (Otundi Folio) 2. 3. 4. 5. 50% of total cover:	10 S 10 20%	= Total Co	FAC POVER 2	Vegetation
Woody Vine Stratum (Plot size: 30' x 30') 1. Smilax (Otundi Folio) 2 3 4 5 50% of total cover:	10 S 10 20%	= Total Co	FAC POVER 2	Vegetation

	سينجمل مقاسمات ممسما				
Profile Description: (Describe to the dept	n needed to docur	nent the inc	licator or conf	irm the absence of	indicators.)
Depth <u>Matrix</u>	Redo	x Features			_
(inches) Color (moist) %	Color (moist)	<u> </u>	Type¹ Loc²		Remarks
0-4 104R3/3 WU				<u> </u>	
4-15 WGRZ/1 100				SL	
		·		<u>- 5</u> -	
13-20 104R4/1 100					
· · · · · · · · · · · · · · · · · · ·					
¹ Type: C=Concentration, D=Depletion, RM=	:Reduced Matrix M	S=Masked S	Sand Grains	² l ocation: E	L=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all					or Problematic Hydric Soils ³ :
☐ Histosol (A1)			, : (S8) (LRR S, ⁻	\neg	-
Histic Epipedon (A2)			LRR S, T, U)	. —	ck (A9) (LRR O) ck (A10) (LRR S)
Black Histic (A3)	Loamy Muck				
Hydrogen Sulfide (A4)	Loamy Gley				Vertic (F18) (outside MLRA 150A,B)
Stratified Layers (A5)	= '		2)		nt Floodplain Soils (F19) (LRR P, S, T)
	Depleted Ma				ous Bright Loamy Soils (F20)
Organic Bodies (A6) (LRR P, T, U)	Redox Dark				A 153B)
5 cm Mucky Mineral (A7) (LRR P, T, U) Muck Presence (A8) (LRR U)	Depleted Da		•		ent Material (TF2) allow Dark Surface (TF12)
1 cm Muck (A9) (LRR P, T)	Mari (F10) (I				
	=	•	AI DA 464\	LL Other (E	xplain in Remarks)
Depleted Below Dark Surface (A11) Thick Dark Surface (A12)	Depleted Oc		•	D T) 3implion	
			s (F12) (LRR 0;		tors of hydrophytic vegetation and
Coast Prairie Redox (A16) (MLRA 150) Sandy Mucky Mineral (S1) (LRR O, S)	_				nd hydrology must be present,
	Delta Ochric				s disturbed or problematic.
Sandy Gleyed Matrix (S4)	_		ILRA 150A, 15	•	
Sandy Redox (S5)			ils (F19) (MLRA		4 FOD)
Stripped Matrix (S6)	Anomaious	Bugut roam	y Solis (FZU) (N	MLRA 149A, 153C,	153ט)
Dark Surface (S7) (LRR P, S, T, U)					
- · · · · · · · · · · · · · · · · · · ·					
Restrictive Layer (if observed):					
Restrictive Layer (if observed): Type:					
				Hydric Soil F	Present? Yes No
Туре:				Hydric Soil F	Present? Yes No
Type:				Hydric Soil F	Present? Yes No
Type:				Hydric Soil F	Present? Yes No
Type:				Hydric Soil F	Present? Yes No
Type: Depth (inches):				Hydric Soil F	Present? Yes No
Type: Depth (inches):				Hydric Soil F	Present? YesNo
Type: Depth (inches):				Hydric Soil F	Present? Yes No
Type: Depth (inches):				Hydric Soil F	Present? Yes No
Type: Depth (inches):				Hydric Soil F	Present? Yes No
Type: Depth (inches):				Hydric Soil F	Present? Yes No
Type: Depth (inches):				Hydric Soil F	Present? Yes No
Type: Depth (inches):				Hydric Soil F	Present? Yes No
Type: Depth (inches):				Hydric Soil F	Present? YesNo
Type: Depth (inches):				Hydric Soil F	Present? YesNo
Type:				Hydric Soil F	Present? YesNo
Type:				Hydric Soil F	Present? YesNo
Type:				Hydric Soil F	Present? YesNo
Type:				Hydric Soil F	Present? Yes No
Type:				Hydric Soil F	Present? Yes No
Type:				Hydric Soil F	Present? Yes No
Type:				Hydric Soil F	Present? Yes No
Type:				Hydric Soil F	Present? Yes No
Type:				Hydric Soil F	Present? Yes No
Type:				Hydric Soil F	Present? Yes No
Type:				Hydric Soil F	Present? Yes No
Type:				Hydric Soil F	Present? Yes No V



Upland data point wwip013_u facing north northwest.

Project/Site: ACP	City/County: Wils		Sampling Date: 4/13/15
Applicant/Owner: Dominion		State: N)C	Sampling Point: WWIPD14f
Investigator(s): ESI-J. Harlow	Section, Township, Rai	nge: NA	Campling Fount.
Landform (hillslope, terrace, etc.): Flat			2Ve_Slope (%): D-2
Subregion (LRR or MLRA): LRRP	Lat: 35. USAVL	ong: 78. 1320'	1 Datum: W6584
Soil Map Unit Name: Rains Sandy Loc			ation: PFO
Are climatic / hydrologic conditions on the site typical for the			
Are Vegetation, Soil, or Hydrology		Normal Circumstances" p	· /
Are Vegetation, Soil, or Hydrology		eded, explain any answer	
SUMMARY OF FINDINGS - Attach site map	showing sampling point l	ocations, transects,	important features, etc.
Hydric Soil Present?	No Is the Sampled within a Wetlar		
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indica	ors (minimum of two required)
Primary Indicators (minimum of one is required; check a	If that apply)	Surface Soil (
	ic Fauna (B13)		etated Concave Surface (B8)
	Deposits (B15) (LRR U)	Drainage Pat	
<u> </u>	gen Sulfide Odor (C1)	Moss Trim Li	' '
	red Rhizospheres along Living Roots		Nater Table (C2)
	nce of Reduced Iron (C4)	Crayfish Burr	· · ·
1	nt Iron Reduction in Tilled Soils (C6)		sible on Aerial Imagery (C9)
·	Muck Surface (C7)	Geomorphic	
<u> </u>	(Explain in Remarks)	Shallow Aqui	
Inundation Visible on Aerial Imagery (B7)	(Explain in Nemarks)	FAC-Neutral	
Water-Stained Leaves (B9)			loss (D8) (LRR T, U)
Field Observations:		Ophaghum	1033 (D0) (ERR 1, 0)
1	Depth (inches):		
			,
	Depth (inches): 75		
Saturation Present? Yes No [(includes capillary fringe)	Jepth (inches): 0 W	etland Hydrology Presen	t? Yes No
Describe Recorded Data (stream gauge, monitoring we	II, aerial photos, previous inspection	s), if available:	
			1
Remarks:	· · · · · · · · · · · · · · · · · · ·		
Tremans,			
			·
1			
1			

20130		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 3013D)		Species?	_	Number of Dominant Species
	<u>30</u>		HC_	That Are OBL, FACW, or FAC: (A)
	15	<u> </u>	EVC	Total Number of Dominant
3. Acer rubrum		<u>N_</u>	FAC	Species Across All Strata: (B)
4				Porcent of Deminent Species
5				Percent of Dominant Species That Are OBL, FACW, or FAC:
6				
7.				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
	50:	= Total Cov	rer	OBL species x 1 =
50% of total cover: 25	20% of	total cover		FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30430)				FAC species x 3 =
1. Quercus nigra	Ð.	Ν	FAC	FACU species x 4 =
2 Liquidamber Styraciflua	20	$\overline{\nabla}$	FAC	UPL species x 5 =
3 morella Cerifera	5	-//-	FAC	Column Totals:(A)(B)
4. Acer rubrum			FAC	
	<u> </u>	~~	FYCW	Prevalence Index = B/A =
5. Magnolia Virginiana		-/4		Hydrophytic Vegetation Indicators:
6. Ilex opaca			PAC	1_Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8	-77			3 - Prevalence Index is ≤3.01
14	<u>36</u>	= Total Cov	/er	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 18	20% of	total cover	: <u>フ, ス</u>	
Herb Stratum (Plot size: 15 x 15)	_		(¹Indicators of hydric soil and wetland hydrology must
1. Arundinaria gigantea	10_	$\overline{\lambda}$	FACW	be present, unless disturbed or problematic.
2				Definitions of Four Vegetation Strata:
3		•		<u>-</u>
4.				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5.				height.
6				Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7,				` '
8				Herb - All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tail.
10				Woody vine - All woody vines greater than 3.28 ft in
11.				height.
12				
_		= Total Co	\sim	
50% of total cover:	20% of	total cover	r. <u> </u>	
Woody Vine Stratum (Plot size: 15×15)	_		~ .	'
1. Vitis rotundifolia	_5_	<u> </u>	FAC	
2. Smilax rotundifolia	<u> 5</u>		FAC	
3. Rubus argutus	-5	$\overline{}$	FAC	
4. Woodwardid areolata	$\overline{2}$	N	OBL	
5.				
	17	= Total Co	. ——	Hydrophytic Vegetation
500/ 56444 46.6				Present? Yes No
	20% of	total cove	<u> </u>	
Remarks: (If observed, list morphological adaptations belo	ow).			
				1

Profile Des	cription: (Describe	to the dep	th needed to docum	nent the I	ndicator	or confirm	n the absence	of Indicators.)
Depth	Matrix			x Features				
(inches)	Color (moist)	%	Color (moist)	%	Туре	_Loc2	Texture	Remarks
0-10	10482/1	95	104R3/6	2	1	M	<u> </u>	
<u> </u>	10/10//	_ 13_			<u>~</u>			
			104R3/10	3	(_	PL		
10-20	104R3/1	90	104R 5/2	ID	\overline{D}	M	34	
10 00	10 110 011	_ 10	10 14 070	·				
								, i
1			<u> </u>					
								<u> </u>
					244,286			
				1.078		-	,	
-			<u>'</u>	· · · · · · · · · · · · · · · · · · ·	-	· 		<u></u>
'Type: C=C	concentration, D=De	pletion, RM=	Reduced Matrix, MS	S=Masked	Sand G	rains,	² Location:	PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Appli	cable to all	LRRs, unless other	wise note	ed.)	٠	Indicators	for Problematic Hydric Solis ³ :
Histoso	I (A1)		Polyvalue Be	low Surfa	ce (S8) (IRRSTI		Muck (A9) (LRR O)
	pipedon (A2)		Thin Dark Su				· —	
	listic (A3)							Muck (A10) (LRR S)
	•	•	Loamy Mucky			K O)		ed Vertic (F18) (outside MLRA 150A,B)
	en Sulfide (A4)		Loamy Gleye		F2)			iont Floodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)		Depleted Mat				Anoma	alous Bright Loarny Soils (F20)
	Bodies (A6) (LRR		_V Redox Dark 8	Surface (F	6)		(MLI	RA 153B)
	ucky Mineral (A7) (L		Depleted Dar	k Surface	(F7)		Red P	arent Material (TF2)
	resence (A8) (LRR		Redox Depre					Shallow Dark Surface (TF12)
	uck (A9) (LRR P, T)		Mari (F10) (L		-			(Explain in Remarks)
	d Below Dark Surfa		Depleted Oct		/MIRA	151)	0er	(Explain in Foliatio)
	ark Surface (A12)	•• (• •• ••)	Iron-Mangan				m 3 aria	notero of building building and
		UMI DA 4506						cators of hydrophytic vegetation and
	Prairie Redox (A16)		· —					tland hydrology must be present,
1	Mucky Mineral (S1)	(LRR O, S)	Delta Ochric					ess disturbed or problematic.
	Gleyed Matrix (S4)		Reduced Ver					i
Sandy F	Redox (S5)		Piedmont Flo	odplain S	oils (F19) (MLRA 1	49A)	
Stripped	d Matrix (S6)		Anomalous B	Bright Loar	ny Soils	(F20) (MLI	RA 149A, 153C	c, 153D)
Dark St	ırface (S7) (LRR P,	S, T, U)					,	
	Layer (if observed						1	· · · · · · · · · · · · · · · · · · ·
	, (•						
Туре:								
Depth (in	iches):						Hydric Soil	Present? Yes No
Remarks:								
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Wetland data point wwip014f_w facing northeast.

WEILAND DETERMINATION	DATA FURWI – Atlantic and C	Suit Coastal Plain Region	
Project/Site: ACT	city/County: Wilson	Sampling Date: 4/13/1	5
Applicant/Owner: Dominion		State: NL Sampling Point: WWi Pot	014_
Investigator(s): ESI-J. Harbour	Section, Township, Range: _	NA	
Landform (hillslope, terrace, etc.): hillslape	Local relief (concave, convex		2
Subregion (LRR or MLRA): LRRP Lat		78.13188 Datum: WGS	5 84
Soil Map Unit Name: Rains sondy Loam	·	NWI classification:NA	
Are climatic / hydrologic conditions on the site typical for this ti	me of year? Vas V	(If no, explain in Remarks.)	
Are Vegetation, Soil, or Hydrologysign	The state of the s	,	
		al Circumstances" present? Yes No	
Are Vegetation, Soil, or Hydrology nat	·	explain any answers in Remarks.)	
SUMMARY OF FINDINGS – Attach site map sh	nowing sampling point locati	ions, transects, important features, e	tc.
Hydrophytic Vegetation Present? Yes No. Hydric Soil Present? Yes No. Wetland Hydrology Present? Yes No. Remarks:	within a Wetland?	Yes No	
HYDROLOGY			
Wetland Hydrology Indicators:	**	Secondary Indicators (minimum of two required	<u>d)</u>
Primary Indicators (minimum of one is required; check all that		Surface Soil Cracks (B6)	. 1
1	auna (B13) sits (B15) (LRR U)	Sparsely Vegetated Concave Surface (B8))
1 - 1 - 1	Sulfide Odor (C1)	Drainage Patterns (B10) Moss Trim Lines (B16)	-
1 — · · · — · · ·	Rhizospheres along Living Roots (C3)	_ , ,	
<u> </u>	of Reduced Iron (C4)	Crayfish Burrows (C8)	
	on Reduction in Tilled Soils (C6)	Saturation Visible on Aerial Imagery (C9)	
Algal Mat or Crust (B4) Thin Muck	Surface (C7)	Geomorphic Position (D2)	- 1
Iron Deposits (B5) Other (Ex	plain in Remarks)	Shallow Aquitard (D3)	
Inundation Visible on Aerial Imagery (B7)		FAC-Neutral Test (D5)	
Water-Stained Leaves (B9)		Sphagnum moss (D8) (LRR T, U)	
Field Observations:	(inches): NA		
Surface Water Present? Yes No Depti	T (III ot 100).		
Water Table Present? Yes No V Depti			'
Saturation Present? Yes No V Depti (includes capillary fringe)	(inches): >20 Wetland	l Hydrology Present? Yes No	
Describe Recorded Data (stream gauge, monitoring well, as	rial photos, previous inspections), if a	vailable:	
Remarks;			
	•	•	
	•		

VEGETATION (Four Strata) - Us	e scientific names of plants.
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20.20	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30+30)		Species?		,
1. none Present	70 0000	ODCOICS:	Otatos	Number of Dominant Species
				That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Species Across All Strata: (B)
4				` '
				Percent of Dominant Species CO°/
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 50% (A/B)
6				
7.				Prevalence Index worksheet:
9				Total % Cover of: Multiply by:
8				OBL species x 1 =
	\mathcal{L}	= Total Cov	er	
50% of total cover:	20% of	total cover	<u>. </u>	FACW species
Sapling/Shrub Stratum (Plot size: 30130)				FAC species x3 =
1. Liquidamber Styrac: Flua	10		143	FACU species _ 30 x4= 120
2				
3				Column Totals: <u>40</u> (A). <u>150</u> (B)
				ا سره
4				Prevalence Index = B/A = 3.75
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				
				2 - Dominance Test Is >50%
8				3 - Prevalence Index is ≤3.01
· · · · · · · · · · · · · · · · · · ·	10	= Total Cov	rer 🔾	Problematic Hydrophytic Vegetation¹ (Explain)
_ 50% of total cover:5	-20% of	total cover	: 🗒	
Herb Stratum (Plot size: 15X15)				
Foch as (CASCO	<u>30</u>	V	FACCI	Indicators of hydric soil and wetland hydrology must
	<u>50</u>		1,00	be present, unless disturbed or problematic.
2				Definitions of Four Vegetation Strata:
3				
				Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height,
6				Sapling/Shrub - Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
				_ ` ,
8				Herb - All herbaceous (non-woody) plants, regardless
9.				of size, and woody plants less than 3.28 ft tall.
10				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
11				Woody vine – All woody vines greater than 3.28 ft in
				height.
12				
	<u></u>	= Total Co	/er	
50% of total cover: 15	20% o	f total cover	· 6	
Woody Vine Stratum (Plot size: 15X15)			· ——	
1. OOR Present				
1. none Present				
2				
3				
·				
4				1
5				Hydrophytic
	\mathcal{O}	= Total Co	ver	Vegetation
50% of total cover:		f total cover		Present? Yes No No
<u></u>		i total cover	'· 	
Remarks: (If observed, list morphological adaptations belo	Σ₩).			
	1 .			
Roadside data poir	₹ -			
1,000 = 2 = 00 100	•			
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Profile Desc	ription: (Describe	to the depth	needed to docur	nent the In	dicator	or confirm	the absence of	Indicators.)	
Depth	Matrix			x Features					
(inches)	Color (moist)	<u> </u>	Color (moist)	<u> </u>	Type ¹	Loc ²		Remarks	
0-4	104E 3/4	100					4.5.		
4-20	104R3/2	100					L. S.		
——		- 					_		
				. 					
				. ——					·
<u> </u>									
	ncentration, D=Dep					ains.		L=Pore Lining, M=Mat	
Hydric Soil I	ndicators: (Applic	able to all LF	RRs, unless other	rwise noted	d.)		indicators fo	r Problematic Hydric	Solis ³ :
Histosol	(A1)		Polyvalue Be	low Surface	e (S8) (L	RR S, T, L	J) 1 cm Mu	ck (A9) (LRR O)	
Histic Ep	ipedon (A2)		Thin Dark Su	ırface (S9) (LRR S,	T, U)	2 cm Mu	ck (A10) (LRR S)	
Black His	•		Loamy Muck	y Mineral (F	-1) (LRR	0)	Reduced	Vertic (F18) (outside	MLRA 150A,B)
	n Sulfide (A4)		Loamy Gleye	ed Matrix (F	2)			t Floodplain Soils (F19	
	Layers (A5)		Depleted Ma	trix (F3)				us Bright Loamy Soils	
	Bodies (A6) (LRR F		Redox Dark				(MLRA	(153B)	l
	cky Mineral (A7) (L		Depleted Da					ent Material (TF2)	ļ
1	esence (A8) (LRR I	٦)	Redox Depre)			illow Dark Surface (TF	12)
1	ck (A9) (LRR P, T)		Marl (F10) (L	•			Other (E:	xplain in Remarks)	
	Below Dark Surfac	ce (A11)	Depleted Oc			-			
	rk Surface (A12)		Iron-Mangan				•	ors of hydrophytic veg	
	airie Redox (A16) (, U)		nd hydrology must be p	
	ucky Mineral (S1) (LKK O, S)	Delta Ochric			A		s disturbed or problem	atic.
1	leyed Matrix (S4)		Reduced Ver						
. —	edox (S5) Matrix (S6)		Piedmont Flo					F0.D)	
	face (S7) (LRR P,	9 T III	Anomalous	siigni Loam	iy Solis (i	-20) (MER	RA 149A, 153C, 1	220)	
	ayer (if observed)				 		" 		
	ayer (ii observed)	•							
Type:			_						./
	:hes):						Hydric Soll P	resent? Yes	_ No <u></u>
Remarks:									!
1									



Upland data point wwip014_u facing southwest.

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Applicant/Owner: Dominion State: NC Sampling Point: WW 10 016 Investigator(s): ESI (Ur Benton) Section, Township, Range: NA Landform (hillslope, terrace, etc.): Flat Local relief (concave, convex, none): Concave Slope (%): Ur	Project/Site: ACP	City/County: Wilson	Sampling Date: 7 (16/14
Section, Township, Range: NA Section, Township, Range: NA Subregion (IRR or MIRA): LRR P Lat: 35. 651 0 N Long: 78.1356 7 W Datum: M652 Subregion (LRR or MIRA): LRR P Lat: 35. 651 0 N Long: 78.1356 7 W Datum: M652 Soli Map Unit Name: Rain's Security Datum: M652 Soli Map Unit Name: Rain's Security Securi			State: NC Sampling Point: WW10016 f-v
Landform (hillslope, terrace, etc.): Lex Local relief (concave, convex, none): COYCOUL Slope (%): Subregion (LRR or MLRA): LRR P Lat: 35. 65110 N Long: 78.1356.7 W Datum: W0552 Soil Map Unit Name: Rath Sacrada Cochen Now Long: 78.1356.7 W Datum: W0552 Soil Map Unit Name: Rath Sacrada Cochen Now Long: 78.1356.7 W Datum: W0552 Now Lotal Individual Now Long: 78.1356.7 W Datum: W0552 Now Lotal Individual Now Long: 78.1356.7 W Datum: W0552 Now Lotal Individual Now Long: 78.1356.7 W Datum: W0552 Now Lotal Individual Now Long: 78.1356.7 W Datum: W0552 Now Lotal Individual Now Long: 78.1356.7 W Datum: W0552 Now Lotal Individual Now Long: 78.1356.7 W Datum: W0552 Now Lotal Individual Now Long: 78.1356.7 W Now Lotal Individual Now Long: 78.1356.7 W Now Lotal Individual Now Long: 78.1356.7 W Now Lotal Individual		Section, Township, Range: _	
Subregion (LRR or MLRA): LPR Lat: 35, 65110 N Long: 78,1367 W Datum: W052 Soli Map Unit Name: Anno Secondary Indicators (Minimum of Indic			
Are climatic / hydrologic conditions on the site hydrology significantly disturbed? Are Vegetation Soil or Hydrology significantly disturbed? Are Vegetation Soil or Hydrology significantly disturbed? Are Vegetation Soil or Hydrology significantly disturbed? Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Hydrosphytic Vegetation Present? Wetland Hydrology Indicators: Primary Indicators (minimum of two required: within a Wetland?) Wetland Hydrology Indicators: Primary Indicators (minimum of two required: hydrogen Sulface Vater (A1) Aquatic Fauna (B13) Surface Soil Cracks (B5) Hydrophytic Vegetation (A3) Hydrogen Sulface Code (C1) Drainage Patterns (B10) Surface Water (A1) Aquatic Fauna (B13) Drainage Patterns (B10) Sutration (A3) Hydrogen Sulface Coder (C1) Sediment Deposits (B2) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Myder-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No Depth (inches): 72- Wetland Hydrology Present? Yes No Depth (inches): 72- Water Table Present? Yes No Depth (inches): 72- Water Table Present? Yes No Depth (inches): 72- Wetland Hydrology Present? Yes No Depth (inches): 72- Wetland Hydrology Present? Yes No Depth (inches): 72- Wetland Hydrology Present? Yes No Depth (inches): 72- Wetland Hydrology Present? Yes No Depth (inches): 72- Saturation Present? Yes No Depth (inches): 72- Wetland Hydrology Present? Yes No Depth (inches): 72- Surface Water Present? Yes No Depth (inches): 72- Surface Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		Lat: 35.65110 N Long:	78.13367 W Datum: WGS84
Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No (If no, explain in Remarks.) Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc. Hydrophylic Vegetation Present? Yes No Is the Sampled Area within a Wetland Hydrology Present? Yes No No Is the Sampled Area within a Wetland? Yes No No Is unface Soil Cracks (B6) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Hydrogen Sulfide Odor (C1) Mari Deposits (B16) (LRR U) Drainage Patterns (B10) Water Marks (B1) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Orifi Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) (Ball of Craylish Burrows (C8) Saturation Visible on Aerial Imagery (C9) (Ball of Craylish Burrows (C8) Saturation Visible on Aerial Imagery (C9) (Ball of Craylish Burrows (C8) Saturation Visible on Aerial Imagery (C9) (Ball of Craylish Burrows (C8) Saturation Visible on Aerial Imagery (C9) (Ball of Craylish Burrows (C8) Saturation Visible on Aerial Imagery (C9) (Ball of Craylish Burrows (C8) Saturation Visible on Aerial Imagery (C9) (Ball of Craylish Burrows (C8) Saturation Visible on Aerial Imagery (C9) (Ball of Craylish Burrows (C8) Saturation Visible on Aerial Imagery (C9) (Ball of Craylish Burrows (C8) Saturation Visible on Aerial Imagery (C9) (Ball of Craylish Burrows (C8) Saturation Visible on Aerial Imagery (C9) (Ball of Craylish Burrows (C8) Saturation Visible on Aerial Imagery (C9) (Ball of Craylish Burr	Soil Map Unit Name: Rains Service	loun	NWI classification: PFD
Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No within a Wetland Pydrology Present? Yes No Surface Soil Present? Yes No Surface Soil Cracks (B6) Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) Aquatic Fauna (B13) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Most Time Lines (B16) Drainage Patterns (B10) Most Time Lines (B16) Sediment Deposits (B2) Presence of Reduced Iron (C4) Sediment Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) Shallow Aquitard (D3) Shallow Aquitard (D3) Shallow Aquitard (D3) Shallow Aquitard (D3) Shallow Aquitard (D3) Shallow Aquitard (D3) Shallow Aquitard (D3) Shallow Aquitard (D3) Shallow Aquitard Table (C2) Care Shallow Aquitard (D3) Shallow	. 1		(If no, explain in Remarks.)
Are Vegetation	- · · · · · · · · · · · · · · · · · · ·		
Hydrophylic Vegetation Present? Hydrophylic Vegetation Present? Hydrocology Present? Wetland Hydrology Present? Wetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Surface Soil Cracks (B6) Surface Water (A1) High Water Table (A2) Hydrogen Sulfide Cdor (C1) Saturation (A3) Wetland Hydrology Indicators (minimum of two required: heck all that apply) Surface Water (A1) Surface Water (A1) Saturation (A3) Hydrogen Sulfide Cdor (C1) Saturation (A3) Hydrogen Sulfide Cdor (C1) Sediment Deposits (B2) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Inton Deposits (B5) Inton Deposits (B5) Inton Deposits (B5) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No Depth (inches): Visition Pessent? Yes No Depth (inches): Zeo Wetland Hydrology Present? Yes No Depth (inches): Zeo Wetland Hydrology Present? Yes No Depth (inches): Zeo Wetland Hydrology Present? Yes No Depth (inches): Zeo Wetland Hydrology Present? Yes No Depth (inches): Zeo Wetland Hydrology Present? Yes No Depth (inches): Zeo Wetland Hydrology Present? Yes No Depth (inches): Zeo Wetland Hydrology Present? Yes No Depth (inches): Zeo Wetland Hydrology Present? Yes No Depth (inches): Zeo Wetland Hydrology Present? Yes No Depth (inches): Zeo Wetland Hydrology Present? Yes No Depth (inches): Zeo Wetland Hydrology Present? Yes No Depth (inches): Zeo Wetland Hydrology Present? Yes No Depth (inches): Zeo Wetland Hydrology Present? Yes No Depth (inches): Zeo Wetland Hydrology Present? Yes No Depth (inches): Zeo Wetland Hydrology Present? Yes No Depth (inches): Zeo Wetland Hydrology Present? Yes No Depth (inches): Zeo Wetland Hydrology Present? Yes No Depth (inches): Zeo Wetland Hydrology Present? Yes No Depth (inches): Zeo Wetland Hydrology Present? Yes No Depth (inches):			
Hydric Soil Present? Wetland Hydrology Present? Wetland Hydrology Indicators: Primary Indicators (minimum of nee is required; check all that apply) Surface Water (A1) High Water Table (A2) Hydrogen Sulfide Odor (C1) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Aqualic Fauna (B13) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Aqualic Ratiospheres along Living Roots (C3) Algal Mat or Crust (B4) In no Deposits (B5) In Inundation Visible on Aerial Imagery (B7) Water Stained Leaves (B9) Field Observations: Surface Water Present? Yes No Depth (inches): 720 Wetland Hydrology Present? Yes No Depth (inches): 720 Wetland Hydrology Indicators Wetland Hydrology Indicators Secondary Indicators (minimum of two required; within a Wetland? Yes No No Depth (inches): Yes No No Depth (inches): 720 Wetland Hydrology Present? Yes No Describe Revious inspections), if available:			ions, transects, important features, etc.
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply). Primary Indicators (minimum of one is required; check all that apply). Surface Water (A1) High Water Table (A2) Water Marks (B1) Water Marks (B1) Presence of Reduced Iron (C4) Agal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water (A1) Aquatic Fauna (B13) Aquatic Fauna (B13) Aquatic Fauna (B13) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Algal Mat or Crust (B4) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No Depth (inches): Ves No Depth (inches): 720 Wetland Hydrology Present? Yes No No Depth (inches): 720 Wetland Hydrology Present? Yes No No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Hydric Soil Present? Wetland Hydrology Present? Yes Yes	No within a Wetland?	
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply). Surface Water (A1) High Water Table (A2) Water Marks (B1) Water Marks (B1) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Algal Mat or Crust (B4) Indicators (minimum of two required) Recent Iron Reduction in Tilled Soils (C6) Indicators (minimum of two required) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Indicators (minimum of two required) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Indicators (minimum of two required) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No Depth (inches): 720 Water Table Present? Yes No Depth (inches): 720 Wetland Hydrology Present? Yes No No Depth (inches): 720 No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	HADBOLOGA		
Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1)			Secondary Indicators (minimum of two required)
Surface Water (A1)		neck all that apply)	
High Water Table (A2)			
Water Marks (B1) Oxidized Rhizospheres along Living Roots (C3) Sediment Deposits (B2) Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Yes No Depth (inches): Saturation Visible on Aerial Imagery (B7) Water-Table Present? Yes No Depth (inches): Thin Muck Surface (C7) Other (Explain in Remarks) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U) Field Observations: Surface Water Present? Yes No Depth (inches): Tow Wetland Hydrology Present? Yes No No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Fi	•	m · · · · I
Sediment Deposits (B2) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Recent Iron Reduction in Tilled Soils (C6) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Thin Muck Surface (C7) Other (Explain in Remarks) Sphagnum moss (D8) (LRR T, U) Field Observations: Surface Water Present? Yes No Depth (inches): Tobe Wetland Hydrology Present? Yes No No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Saturation (A3)	Hydrogen Sulfide Odor (C1)	_
Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Thin Muck Surface (C7) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U) Field Observations: Surface Water Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): To Wetland Hydrology Present? Yes No Linched Present? Yes No Perton (inches): To No Linched Present? Yes No Linched			
Algal Mat or Crust (B4)	1 		· ·
Iron Deposits (B5)			
Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Yes NoX Depth (inches):		• •	The state of the s
Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No _X Depth (inches):		Other (Explaint recitatio)	
Surface Water Present? Yes No _X Depth (inches):	N=3		
Water Table Present? Yes No _X Depth (inches): 7 20 Saturation Present? Yes No _X Depth (inches): 7 20 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Saturation Present? Yes No Depth (inches): 720 Wetland Hydrology Present? Yes No Depth (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		Copul (mones).	
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	•	_	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		Depth (inches): /25 Wetlan	nd Hydrology Present? Yes V No
Remarks:	Describe Recorded Data (stream gauge, monitor	ing well, aerial photos, previous inspections), if	available:
	Remarks:		
		~	•
			·

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

~	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30+30)		Species?		Number of Dominant Species
1. Alhus taeda	<u> პი</u>		FAL	That Are OBL, FACW, or FAC:(A)
2. Lipidembar Styractible	Zo	$\overline{\lambda}$	PAC	
3. Arer rubrum	<u>Zo</u>	$\overline{\lambda}$	PAL	Total Number of Dominant Species Across All Strata: (B)
			11100	Species Across All Strata: (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100/1 (A/B)
6				
7				Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
<u> </u>	70	= Total Cov		OBL species x 1 =
50% of total cover: 35		- Total Cov	E 11	FACW species x 2 =
	20% 01	total cover	17	FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 30 x30)				
1. Piny taloh	<u> 15 _ </u>	<u> </u>	FHL	FACU species x 4 =
2. Liquidambar Styracitua	15	7	MAL.	UPL species x 5 =
3. Cyrilla racemiflora	10	Y	PRUM	Column Totals: (A) (B)
		Y	FALL	
		-/	1 1 2	Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6	·			1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0¹
	20	= Total Cov	ror	\ _
50% of total cover: 25		f total cover		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% 0	r total cover		
Herb Stratum (Plot size: 3 & x30)		. 7		¹ Indicators of hydric soil and wetland hydrology must
1. Liquidanber Styracitua	5	<u> </u>	FAL	be present, unless disturbed or problematic.
2. Woodwardia acrestata	_10_	X	OBL	Definitions of Four Vegetation Strata:
3.				1
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of height.
5				Height.
6				Sapling/Shrub - Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				North All borbonous (non woods) whate reportless
9				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
L .		. —	. ——	or oles, and visody plants less than size it tall.
	-			Woody vine - All woody vines greater than 3.28 ft in
11				height.
12				
	15	= Total Co	ver	
50% of total cover:1\'	Arts -	- of total cove		
		, , , , , , , , , , , , , , , , , , , ,		
, , , , , , , , , , , , , , , , , , ,	,-	V	and the	
1. vitis rotundiblia	_ 	_ 1	<u> FPL</u>	
2				
3				
4.				
r				
5				- Hydrophytic
		_ = Total Co		Vegetation Present? Yes No
50% of total cover: 2	<u>5</u> 20%	of total cove	er: <u> </u>	- resem: res_\(\pi \) 100
Remarks: (If observed, list morphological adaptations be	low).			
	•			
ļ				

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth	
(inches) Color (moist) % Color (moist) % Type ¹ Loc ² Texture Remarks	
6-18 2.546/2 90 7.57R 8 10 C M/PLIO.SA, Oxidized Micosof	-CE CARSCO-
	41 c3 bi-201-/
18-20 2,54 4/1 95 7,54RS/8 5 C M' SACILO.	
	·
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix, MS=Masked Sand Grains.	
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric	
☐ Histosol (A1) ☐ Polyvalue Below Surface (S8) (LRR S, T, U) ☐ 1 cm Muck (A9) (LRR O)	
Histic Epipedon (A2) Thin Dark Surface (S9) (LRR S, T, U) 2 cm Muck (A10) (LRR S)	
☐ Black Histic (A3) ☐ Loamy Mucky Mineral (F1) (LRR Q) ☐ Reduced Vertic (F18) (outside	
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Piedmont Floodplain Soils (F19	
Stratified Layers (A5) Depleted Matrix (F3) Depleted Matrix (F3) Manomalous Bright Loamy Soils Redox Dark Surface (F6) (MLRA 153B)	(F20)
Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) (MLRA 153B) 5 cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7) Red Parent Material (TF2)	
Muck Presence (A8) (LRR U) Redox Depressions (F8) Very Shallow Dark Surface (TF	12)
1 cm Muck (A9) (LRR P, T) Marl (F10) (LRR U) Uther (Explain in Remarks)	•
Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151)	
Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P, T) Indicators of hydrophytic vego	
Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) wetland hydrology must be Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) unless disturbed or problem	
Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) unless disturbed or problem Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B)	atic.
Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A)	
Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)	
Dark Surface (S7) (LRR P, S, T, U)	
Restrictive Layer (if observed):	
Туре:	
Depth (inches): Hydric Soil Present? Yes	No
	No
Depth (inches): Hydric Soil Present? Yes	No
Depth (inches): Hydric Soil Present? Yes	No
Depth (inches): Hydric Soil Present? Yes	No
Depth (inches): Hydric Soil Present? Yes	No
Depth (inches): Hydric Soil Present? Yes	No
Depth (inches): Hydric Soil Present? Yes	No
Depth (inches): Hydric Soil Present? Yes	No
Depth (inches): Hydric Soil Present? Yes	No
Depth (inches): Hydric Soil Present? Yes	No
Depth (inches): Hydric Soil Present? Yes	No
Depth (inches): Hydric Soil Present? Yes	No
Depth (inches): Hydric Soil Present? Yes	No
Depth (inches): Hydric Soil Present? Yes	No
Depth (inches): Hydric Soil Present? Yes	No
Depth (inches): Hydric Soil Present? Yes	No
Depth (inches): Hydric Soil Present? Yes	No
Depth (inches): Hydric Soil Present? Yes	No
Depth (inches): Hydric Soil Present? Yes	No
Depth (inches): Hydric Soil Present? Yes Remarks:	No
Depth (inches): Hydric Soil Present? Yes Remarks:	No
Depth (inches): Hydric Soil Present? Yes Remarks:	No



Wetland data point wwio016f_w facing west.

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: ACP	City/Co	unty: Wilson	Sampling Date: 7/16/14
Applicant/Owner: Dominion	•	State:	NL Sampling Point: WW10016_U
Investigator(s): EST (J Bento)	Section	, Township, Range: NA	
Landform (hillslope, terrace, etc.): Pine Fu-	Local re		uncave slope (%): 0-41.
Subregion (LRR or MLRA): LLV P	35 (51)		
	1 loans	N	IWI classification:
Are climatic / hydrologic conditions on the site typ	ical for this time of year? Ye		
Are Vegetation, Soil, or Hydrology			mstances" present? Yes No
Are Vegetation, Soil, or Hydrology	y naturally problemat	ic? (If needed, explair	any answers in Remarks.)
SUMMARY OF FINDINGS - Attach s	ite map showing sam	oling point locations,	transects, important features, etc.
Hydrophytic Vegetation Present? Yes _ Hydric Soil Present? Yes _ Wetland Hydrology Present? Yes _ Remarks:		Is the Sampled Area within a Wetland?	Yes No
IIVPPOLOCY			
HYDROLOGY			
Wetland Hydrology Indicators:	hli -li that annisi		ondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required	¬ ;;;		Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8)
Surface Water (A1) High Water Table (A2)	Aquatic Fauna (B13) Marl Deposits (B15) (LRR)		Drainage Patterns (B10)
Saturation (A3)	Hydrogen Sulfide Odor (C		Moss Trim Lines (B16)
Water Marks (B1)	Oxidized Rhizospheres al		Dry-Season Water Table (C2)
Sediment Deposits (B2)	Presence of Reduced Iron	n (C4)	Crayfish Burrows (C8)
Drift Deposits (B3)	Recent Iron Reduction in	<u></u>	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	=	Geomorphic Position (D2)
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remark	·	Shallow Aquitard (D3) FAC-Neutral Test (D5)
Water-Stained Leaves (B9)		_	Sphagnum moss (D8) (LRR T, U)
Field Observations:			
Surface Water Present? Yes No		NA	
	Depth (inches):	20	•
Saturation Present? Yes No (includes capillary fringe)			ology Present? Yes No
Describe Recorded Data (stream gauge, moni	toring well, aerial photos, pre	vious inspections), if available	e:
Remarks:			
·			
			

30.20		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 x 30)		Species?		Number of Dominant Species
1. Pinus turda	40	Y	PAC	That Are OBL, FACW, or FAC:(A)
2. Liguidanber Styraciflya	25		PAL	
				Total Number of Dominant
3. Liciodendron tulipitera	15_	<u>N</u>	THE	Species Across All Strata: (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100/1 (A/B)
6.				
				Prevalence Index worksheet:
7				
8				Total % Cover of: Multiply by:
	80	= Total Co		OBL species x 1 =
مر دو ا	\ 			FACW species x 2 =
50% of total cover: 40	20% of	total cover	r: 1 0	
Sapling/Shrub Stratum (Plot size: 30 +30)				FAC species x 3 =
O' de La d	20	7	PAC	FACU species x 4 =
1. Pinus talda				
2. Magnotra vivaintana	lo	Ν	PACL	UPL species x 5 =
3. Simplocas Ministria		$\overline{}$	PHL	Column Totals: (A) (B)
4. Liandamber Styrauthy	<u> 20 </u>	<u> </u>	PAC	Prevalence Index = B/A =
, ,		,		
5			· ——	Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
	·			l <u>—</u>
8				3 - Prevalence Index is ≤3.01
	(25	= Total Co	ver	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 3 2	5 20W a	f tatal agus	1 %	Froblematic Hydrophytic vegetation (Explain)
	20% 0	i total cove	· (tanan	
Herb Stratum (Plot size: 30 x30)				¹ Indicators of hydric soil and wetland hydrology must
1. Arundinaria nigentea	5	٧.	FALW	be present, unless disturbed or problematic.
1	10			
2. Vaccinium corymbosum	10	<i></i>	FARCW	Definitions of Four Vegetation Strata:
3				
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4		· ····		more in diameter at breast height (DBH), regardless of
5				height.
l .				
6				Sapling/Shrub – Woody plants, excluding vines, less
7			_ 	than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Howk All hashanania (non-yuanda) wheels recordings
				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
9				of size, and woody plants less than 3.26 it tall.
10				Woody vine – All woody vines greater than 3.28 ft in
1				
11			- —	height.
12	- 			
	15	= Total C	nver	
		•	•	
50% of total cover: 715	20% 0	of total cove	er:	
Woody Vine Stratum (Plot size: 30 ×30)				
1. Vitis rotuditolia	lo	4	FAL	
1. VITIS TOPPORTON		_ <u> </u>	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
2	1.0	_		v I
			-	
3.				
		-		
3. · · · · · · · · · · · · · · · · · · ·				
3.		_		Hydrophytic
3. · · · · · · · · · · · · · · · · · · ·			over	Vegetation
3		_ = Total C	-	
3	20%	_	-	Vegetation
3	20%	_ = Total C	-	Vegetation
3	20%	_ = Total C	-	Vegetation
3	20%	_ = Total C	-	Vegetation
3	20%	_ = Total C	-	Vegetation
3	20%	_ = Total C	-	Vegetation
3	20%	_ = Total C	-	Vegetation
3	20%	_ = Total C	-	Vegetation
3	20%	_ = Total C	-	Vegetation
3	20%	_ = Total C	-	Vegetation

epth	Matrix			ox Features			
nches)	Color (moist)	<u>%</u>	Color (moist)		Type Loc²	Texture	Remarks
<i>9-25</i>	2.594/1	95	7.54R 4/6	5	<u>C</u> M	<u> </u>	
	•		,				
							
		 -					<u> </u>
		•					
			Dadward Matrix N		and Crains	31 postion: DI = D	nun I tutum Be Benedik
	oncentration, D=Dep						ore Lining, M=Matrix.
_	Indicators: (Applie	able to all I					roblematic Hydric Soils ³ :
Histoso	• ,		=		(S8) (LRR S, T,	' -	
-	pipedon (A2)		=	urface (S9) (I	•		A10) (LRR S)
-	istic (A3)			ky Mineral (F		I I	rtic (F18) (outside MLRA 150A,E
	en Sulfide (A4)			red Matrix (F2	2)		oodplain Soils (F19) (LRR P, S, T
	d Layers (A5)		Depleted M				Bright Loamy Soils (F20)
	Bodies (A6) (LRR F		=	Surface (F6)		(MLRA 15	
4	ucky Mineral (A7) (L		_	ark Surface (F	7)		Material (TF2)
=	resence (A8) (LRR I	J)	7	ressions (F8)			v Dark Surface (TF12)
₹	uck (A9) (LRR P, T)		☐ Marl (F10) (U Other (Expla	in in Remarks)
Deplete	d Below Dark Surfac	ce (A11)		chric (F11) (N			
Thick D	ark Surface (A12)		∐ Iron-Manga	nese Masses	(F12) (LRR O, P	', T) ³ Indicators	of hydrophytic vegetation and
	rairie Redox (A16) (.) 🔲 Umbric Sur	face (F13) (LI	RR P, T, U)	wetland I	ydrology must be present,
] Sandy l	Mucky Mineral (S1) (LRR O, S)	Delta Ochri	c (F17) (MLR	A 151)	unless di	sturbed or problematic.
] Sandy	Gleyed Matrix (S4)		Reduced V	ertic (F18) (M	LRA 150A, 150B	3)	
Sandy	Redox (S5)		Piedmont F	loodplain Soi	is (F19) (MLRA 1	49A)	
Strippe	d Matrix (S6)		Anomalous	Bright Loamy	Soils (F20) (ML	RA 149A, 153C, 1531	O)
Dark Şı	urface (S7) (LRR P,	S, T, U)					
estrictive	Layer (if observed):					
Type:							<i>:</i>
	nches):					Hydric Soil Pres	ent? Yes_X_ No
						Tiyana ooni i tas	10310
temarks:							



Upland data point wwio016_u facing east.

Project/Site: ACP	City/County: \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Sar	npling Date: 7/16/14
Applicant/Owner: Dom in ton		State: NC Sar	npling Point: WWio OIS F_
	Section, Township, Range: _	NA	
Landform (hillstone terrace etc.): Flat	ocal relief (concave, convex	Connel: Lowland	€ Slope (%); (>-4'),
Subregion (LRR or MLRA): LLP Lat: 35.	64854 N Long.	78,13623 W	Datum: W6584
Soil Map Unit Name: Rains Sandy Loans			
7.5			
Are climatic / hydrologic conditions on the site typical for this time of ye			
Are Vegetation, Soil, or Hydrology significantly			ent? Yes No
Are Vegetation, Soil, or Hydrology naturally pro	blematic? (If needed	, explain any answers in	Remarks.)
SUMMARY OF FINDINGS - Attach site map showing	sampling point locat	ions, transects, in	portant features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No	Is the Sampled Area		
Hydric Soil Present? YesNo Wetland Hydrology Present? YesNo	within a Wetland?	Yes 🗸	No
Remarks:			
		•	ļ
	•		1
HYDROLOGY			
Wetland Hydrology Indicators:	·· · ··	Secondary Indicators	(minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		Surface Soil Cra	cks (B6)
☐ Surface Water (A1) ☐ Aquatic Fauna (B1	3)	Sparsely Vegeta	nted Concave Surface (B8)
High Water Table (A2) Marl Deposits (B1	i) (LRR U)	Drainage Patter	ns (B10)
Saturation (A3) Hydrogen Sulfide		Moss Trim Lines	· · · .
	eres along Living Roots (C3)		
Sediment Deposits (B2)		Crayfish Burrow	· · ·
	tion in Tilled Soils (C6)	\equiv	le on Aerial Imagery (C9)
Algal Mat or Crust (B4)	, -	Geomorphic Po	· · ·
☐ Iron Deposits (B5) ☐ Other (Explain in Inundation Visible on Aerial Imagery (B7)	(emarks)	Shallow Aquitar FAC-Neutral Te	· · ·
Water-Stained Leaves (B9)		 /	s (D8) (LRR T, U)
Field Observations:		<u> </u>	5 (2 0) (2 m m m) o /
Surface Water Present? Yes No Depth (inche	s): NA		
Water Table Present? Yes No Depth (inche	3): 720		
Saturation Present? Yes No Depth (inche		d Hydrology Present?	Yes_X No
(includes capillary fringe)		augilahla.	•
Describe Recorded Data (stream gauge, monitoring well, aerial pho	os, previous inspections), ir a	avaliabie.	
Remarks:		,	
·			
		,	
			-
			•
		<u> </u>	<u>. </u>

7.0.0	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 +35)		Species?		N. J. Ch. de al C. de al
1. Pinus treda	35	7	FAL	Number of Dominant Species That Are OBL, FACW, or FAC:(A)
	25	Ý		mat Are ODE, 1 AOV, OLI AO.
2. Liguidamber Styracifly			PAC	Total Number of Dominant
3. Acer rubrum	25	<u>y</u>	891U	Species Across All Strata: 4 (B)
4		•	l	
				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: \(\begin{array}{c} \log \beta \end{array}\). (A/B)
6				
7				Prevalence Index worksheet:
				Total % Cover of: Multiply by:
8	120			OBL species x 1 =
		= Total Co		FACW species x 2 =
50% of total cover:	2 0% of	f total cover	: <u></u>	
Sapling/Shrub Stratum (Plot size: 30 x 30)				FAC species x 3 =
1. Symptones tinctoria	20	V .	PAC	FACU species x 4 =
	15	-/- -		UPL species x 5 =
2. Accr rubrum	. 		PAC	Column Totals: (A) (B)
3. Pinvs theda	12	<u> </u>	<u>PH</u>	Column Totals: (A) (B)
4. Vaccinium corymbosum	10	N	PACW	Decomposite and a second secon
•		•		Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6.				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
				l =
8	1.5		· ——	3 - Prevalence Index is ≤3.0
		= Total Co	_	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: _ 31	⊇ 20% o	f total cove	r: <u>12 </u>	
Herb Stratum (Plot size: 3 0 x 30)				11-31-4
	10	٧.	PACID	¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. Cyrilla racemiflora	5	- 🔆		
2. Acer rubrum	_ 	· <u> </u>	. TH	Definitions of Four Vegetation Strata:
3	*		e.	T NATE to cloud, controlling time of a 77 C and as
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of height.
5				l leight.
6				Sapling/Shrub - Woody plants, excluding vines, less
				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7				, ,
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				
1				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12				
	.15	_ = Total C	over	
50% of total cover: 1	5 200/	of total cove	1	
1	20%	or total covi	er: <u> </u>	•
Woody Vine Stratum (Plot size: 30 x 30)	_			
1 Vitis rotundificia	- 5	Ŋ	FAC	
2				•
3		_		_
4.				
				1
5	_ 			- Hydrophytic
	<u> </u>	_ = Total C		Vegetation No.
50% of total cover:	S _ 20%	of total cov	er:	Present? Yes V No
Remarks: (If observed, list morphological adaptations be				
	SIUWY).			
Tremains: (ii observed, list morphological dauptations by				
Terraino. (il observed, list morphological despitations as				
remains. (ii observed, list morphological dauptations as				
Temans. (II observed, list morphological despitations as				<u>.</u>
Temane. (Il observed, list morphological despitations as				
remand. (ii observed, list morphological deaptations as				-
remand. (ii observed, list morphological despitations as				
Temano. (ii observed, list morphological despitations as				

Profile Desc	ription: (Describe	to the dept	h needed to docu	ment the i	ndicator	or confin	m the absence o	of indicators.)
Depth	Matrix			x Features	- - 1		·	B
(inches) 0 - 14	2.54 5/1	95	Color (moist)	· <u>%</u> 5	Type ¹	Loc²	Texture .	Remarks
0-14						<u> </u>	<u>sachlar</u> .	w/ exidized shizosolves
14-20-	2.5964	85	7,57858	<u> 15 </u>	<u> </u>	M	Sa.cl,	Wloxdized thizasheres
	·							
<u></u>								
				·		·		
			·					
							 .	
	oncentration, D=De					ains.		PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Appli	cable to all	LRRs, unless othe	rwise note	ed.)			for Problematic Hydric Soils ³ :
☐ Histosol	l (A1)		Polyvalue B				. —	uck (A9) (LRR O)
	pipedon (A2)		Thin Dark S					uck (A10) (LRR S)
_	istic (A3)		Loamy Mucl			₹ 0)		ed Vertic (F18) (outside MLRA 150A,B)
	en Sulfide (A4)		Loamy Gley		F2)			ont Floodplain Soils (F19) (LRR P, S, T) lous Bright Loamy Soils (F20)
	d Layers (A5) : Bodies (A6) (LRR I	P. T. III	Depleted Ma		·6)			ious Bright Loamy Solls (F20)
	ucky Mineral (A7) (L	•	=	•	,		1 1 '	arent Material (TF2)
	resence (A8) (LRR		Redox Depr					hallow Dark Surface (TF12)
1 cm M	uck (A9) (LRR P, T)	-	Marl (F10) (LRR U)			Other (Explain in Remarks)
	d Below Dark Surfa	ce (A11)	Depleted O					
□ ==	ark Surface (A12)		Iron-Mangar			•		ators of hydrophytic vegetation and
) Terret	rairie Redox (A16)	-						land hydrology must be present,
	Mucky Mineral (S1)	(LKK 0, 5)	☐ Delta Ochrid					ess disturbed or problematic.
	Gleyed Matrix (S4) Redox (S5)		Piedmont F					
-	d Matrix (S6)						_RA 149A, 153C,	, 153D)
	urface (S7) (LRR P,	S, T, U)		J	•	`	,	•
Restrictive	Layer (if observed):						
Type:			<u>-</u>					
Depth (in	nches):						Hydric Soil	Present? Yes No
Remarks:								
	:							
			•					
1								
1								

.....



Wetland data point wwio015f_w facing south.

Applicant/Owner: Dominson State: NC Sampling Point: WwioO/S-Investigator(s): EST CJ Benton Section, Township, Range: NX Landform (hillslope, terrace, etc.): Flat Local relief (concave, convex, none): which Slope (%): D-Y Subregion (LRR or MLRA): LRRP Lat: 35, 64858 N Long: 78-13629W Datum: N/55	Project/Site: ACP	City/County: W (15	<u></u>	Sampling Date: 7/16/14
Section, Township, Range: Section, Range: Se			State: <u> </u>	Sampling Point: Www 100/5-U
Landform (hillslope, terrace, etc.): Local relief (concave, convex, none): Local relief (concave, convex, none): Local Sope (%): O'M Subregion (LRR or MLRA): LPR Lat: 35, 64, 858 N Long: 78, 13,62 N Datum: Notes 1				
Hydrophytic Vegetation Present? Wetland Hydrology Present? Wetland Hydrology Indicators: Primary Indicators (minimum of two required) Primary Indicators (minimum of two required) Primary Indicators (minimum of two required) Primary Indicators (minimum of two required) Primary Indicators (minimum of two required) Surface Soil Cracks (86) Surface Soil Cracks (86) Sparsely Vegetated Concave Surface (88) Hydrogen Sulfide Odor (C1) Saturation (A3) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Presence of Reduced Iron (C4) Sofiment Deposits (B2) Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Drift Deposits (B3) Hydrogen Sulfide Cdor (C7) Sediment Deposits (B3) Face-through the Appear of the Ap	Landform (hillslope, terrace, etc.): Flat Subregion (LRR or MLRA): LPRP Lat: 3 Soil Map Unit Name: Kwh.) Swdy lown Are climatic / hydrologic conditions on the site typical for this time of the conditions on the site typical for the conditions on the conditions of t	Local relief (concave, on the second	convex, none): Landa Long: 78-1362° NWI classific (If no, explain in F	Datum: W/S 84 Cation: W/A Remarks.) present? Yes No
Hydric Soil Present? Yes No Within a Wetland? Yes No Within a Wetland? Yes No Within a Wetland? Yes No Within a Wetland? Yes No Within a Wetland? Yes No Within a Wetland? Yes No Within a Wetland? Yes No Wetland Hydrology Indicators: Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Surface Soil Cracks (B6) Surface Water (A1) Aquatic Fauna (B13) Sparsely Vegetated Concave Surface (B8) High Water Table (A2) Hydrogen Sulfide Odor (C1) Moss Trim Lines (B16) Dry-Season Water Table (C2) Sediment Deposits (B1) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation (Na) Hydrogen Sulfide Odor (C4) Drift Deposits (B3) Recent Iron Reducction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Iron Deposits (B5) Other (Explain in Remarks) Shallow Aquitard (D3) FAC-Neutral Test (D5) Shallow Aquitard (D3) FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U) Feld Observations: Surface Water Present? Yes No Depth (inches): 720 Wetland Hydrology Present? Yes No Depth (inches): 720 Wetland Hydrology Present? Yes No Depth (inches): 720 Wetland Hydrology Present? Yes No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	SUMMARY OF FINDINGS – Attach site map show	ving sampling point l	locations, transects	s, important features, etc.
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Indicator Crust (B4) Indicators (minimum of two required) Mari Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) Indicators (minimum of two required) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Inon Deposits (B5) Other (Explain in Remarks) Mari Deposits (B5) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Algal Mat or Crust (B4) Inon Deposits (B5) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No Depth (inches): 720 Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	Is the Sample within a Wetla		NoX
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Indicator Crust (B4) Indicators (minimum of two required) Mari Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) Indicators (minimum of two required) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Inon Deposits (B5) Other (Explain in Remarks) Mari Deposits (B5) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Algal Mat or Crust (B4) Inon Deposits (B5) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No Depth (inches): 720 Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:				
Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1)			0	the following of the population
Surface Water Present? Yes No _X Depth (inches):	Primary Indicators (minimum of one is required: check all that are Surface Water (A1) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water Surface Water (A1) Aquatic Fauna Marl Deposits Hydrogen Suff Oxidized Rhiz Presence of Fauna Recent Iron R Thin Muck Suff Other (Explain	a (B13) 5 (B15) (LRR U) Ifide Odor (C1) zospheres along Living Roo Reduced Iron (C4) Reduction in Tilled Soils (C6 urface (C7)	Surface So Sparsely Volume Drainage P Moss Trim Dry-Season Crayfish Bu Saturation Geomorphi Shallow Ac	il Cracks (B6) egetated Concave Surface (B8) attems (B10) Lines (B16) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) ic Position (D2) quitard (D3) al Test (D5)
	Surface Water Present? Yes No Depth (ir Water Table Present? Yes No Depth (ir Saturation Present? Yes No Depth (ir (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial	nches): 720 nches): 720	•	ent? Yes No <u>X</u>

Tree Stratum (Plot size: 30 x 30)		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?		Number of Dominant Species
1. Pinus faeda	30	1	PPC	That Are OBL, FACW, or FAC:(A)
2 Acer rubrum	20		PAL	
				Total Number of Dominant
3. Sun places tructory	10	M	PK	Total Number of Dominant Species Across All Strata: [B]
4. Liquidansar styracitha		- 1	PAL	(-)
4. Elyviamsar stylactua			1 1	Percent of Dominant Species
5		•		That Are OBL, FACW, or FAC: (A/B)
				THAT AIR ODE, I ACTO, OTTAO.
6				Daniel and Indianantal acti
7				Prevalence Index worksheet:
				Total % Cover of: Multiply by:
8				
	75	= Total Cov	/er	OBL species x 1 =
50% of total cover: <u>32</u>	. 6000		16	FACW species x 2 =
	13 20% 0	total cover	: <u></u>	FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 30 x30)				
A c out	Zo	>1	PP76	FACU species x 4 =
1. Acer rubrum		_ 		
2. Tlex once	10	Υ	PH	UPL species x 5 =
and the same of th	10	~	PAL	Column Totals: (A) (B)
3. Symptosos tructura	<u> (~</u>	· - '		
4. O'tydendon worker	5	7	PAW	Drawnlanes Indox = D/A =
		· -		Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				
				1 - Rapid Test for Hydrophytic Vegetation
7			·	2 - Dominance Test is >50%
8		-		3 - Prevalence Index is ≤3.01
	<u>45</u>	= Total Co	ver	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 2.7	15 200%	f total cava	_ વ	
30 % of total cover	20/60	i total cove	·	
Herb Stratum (Plot size: 30 x30)				¹ Indicators of hydric soil and wetland hydrology must
4 A= 5 0 1 5400	5	V	713/	be present, unless disturbed or problematic.
1. Acer rubrum 2. Arndinaria signifer		- 😾		
2. Arnolinaria <u>49antea</u>	5	1	MU	Definitions of Four Vegetation Strata:
3	 			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
L				height.
5				
6				Sapling/Shrub - Woody plants, excluding vines, less
				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7				than 5 m. DBH and greater than 6.25 ft (1 m) tall.
8				Herb - All herbaceous (non-woody) plants, regardless
				of size, and woody plants less than 3.28 ft tall.
9				of size, and woody plants less than 5.20 it tall.
10				Maria de la Maria de Caracteri
				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12				
	10		_	
	<u>. </u>	_ = Total C	over	
50% of total cover: 5	20%	of total cove	er: 🐍	
0 -		0. 10121 5511		•
VOODY VIITE STIATUM (FIQUE)				
1 Vitis rotuditalia	5	Ч	EVAL.	
	 _		95/b at	•
2. Smilax rotunditolia	_ - 5		- PAL	_]
		,		
3				•
4				_ [
5	_ 		- 	- Hydrophytic
	lD	_ = Total C	over	Vegetation
				Present? Yes V No
50% of total cover:	<u>**</u> 20%	of total cov	er:	-
Remarks: (If observed, list morphological adaptations be	elow).			
Tremaine: (if observed, not morphological adaptations as	0.01.,.			
İ				
le control de la				

Profile Desc	ription: (Describe	to the dep	th needed to docu			or confirm	n the absence of	f indicators.)
Depth	Matrix			ox Feature:		_Loc²	Tanding-	Domado
(inches)	Z,5YY,	_ <u>%</u>	Color (moist)	%	_Type ¹	<u> </u>	Texture _	Remarks
0-12	10711	100	7 - 056				<u> </u>	
12-20_	2,545/2	<u>90</u>	7.5YR58	_ <u>_ </u>	<u>C</u>	<u>M</u>	Salo.	
	,							
								
								
¹ Type: C=C	oncentration, D=De	pletion, RM:	=Reduced Matrix, M	IS=Masked	i Sand Gr	ains.	² Location: F	PL=Pore Lining, M=Matrix.
			LRRs, unless other				Indicators fo	or Problematic Hydric Soils ³ :
☐ Histoso	(A1)		Polyvalue B	elow Surfa	ce (S8) (I	.RR S, T,	Մ) 🛄 1 cm Mu	uck (A9) (LRR O)
Histic E	pipedon (A2)		Thin Dark S					uck (A10) (LRR S)
_	istic (A3)		Loamy Muc			? O)		d Vertic (F18) (outside MLRA 150A,B)
	en Sulfide (A4)		Loamy Gley		(F2)			nt Floodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)	n =	Depleted Ma		-01			ous Bright Loamy Soils (F20)
1 = 1	: Bodies (A6) (LRR I ucky Mineral (A7) (I		Redox Dark Depleted Dark	-	-			A 153B) rent Material (TF2)
	resence (A8) (LRR		Redox Depi					hallow Dark Surface (TF12)
	uck (A9) (LRR P, T)		Marl (F10) (_	~,			Explain in Remarks)
· =	d Below Dark Surfa		Depleted O		(MLRA 1	51)		,
Thick D	ark Surface (A12)	, ,	☐ Iron-Manga				, T) ³ Indica	ators of hydrophytic vegetation and
Coast F	rairie Redox (A16)	(MLRA 150.	A) 🔲 Umbric Suri	face (F13)	(LRR P,	Γ, U)		and hydrology must be present,
	Mucky Mineral (S1)	(LRR O, S)						ss disturbed or problematic.
	Gleyed Matrix (S4)		Reduced V					
·	Redox (S5)		Piedmont F		-		149A) RA 149A, 153C,	1E2D)
-	d Matrix (S6) urface (S7) (LRR P,	S T III	Ariomaious	Dilgiil Loa	inly Solis	(FZU) (INE	ICA 148A, 133C,	1330)
	Layer (if observed							
Type:	Layer (ii oboor roc	.,.						
	nches):						Hydric Soil I	Present? Yes No
Remarks:	icties)			·			Tiyane 30ii i	rresent: resNO
rtemarks.								
1								
}								
	•							
1								
<u> </u>								



Upland data point wwio015_u facing north.

State: NC Sampling Point: NWI CE Section, Township, Range: NP Lat: 35,64660 N Long: 74,1583 W Datum Name: NP Sold Map Link Name: NO.15 Sub-Att Deam No. Caral relief (concave, convex, none): LWNAW classification: 255 Sold Map Link Name: No.15 Sub-Att Deam No. Caral relief (concave, convex, none): LWNAW classification: 255 No. Lat: 35,64660 N Long: 74,1583 W Datum Name: No. 15,64660 N Long: 74,1583 W Datum Name: No. 15,64660 N Long: 74,1583 W Datum Name: No. 15,64660 N Long: 74,1583 W Datum Name: No. 15,64660 N Long: 74,1583 W Datum Name: No. 15,64660 N Long: 74,1583 W Datum Name: No. 15,64660 N Long: 74,1583 W Datum Name: No. 15,64660 N Long: 74,1583 W Datum Name: No. 15,64660 N Long: 74,1583 W Datum Name: No. 15,64660 N Long: 74,1583 W Datum Name: No. 15,64660 N Long: 74,1583 W Datum Name: No. 15,64660 N Long: 74,1583 W Datum Name: No. 15,64660 N Long: 74,1583 W Datum Name: No. 15,64660 N Long: 74,1583 W Long: No. 15,64660 N Long: 74,1583 W Long: No. 15,64660 N Long: 74,1583 W Long: No. 15,64660 N Long: 74,1583 W Long: No. 15,64660 N Long: 74,1583 W Long: No. 15,64660 N Long: 74,1583 W Long: No. 15,64660 N Long: 74,1583 W Long: No. 15,64660 N Long: 74,1583 W Long: No. 15,64660 N Long: 74,1583 W Long: No. 15,64660 N Long: 74,1583 W Long: No. 15,64660 N Long: 74,1583 W Long: No. 15,64660 N Long: 74,1583 W Long: 74,1583 W Long: 74,1583 W Long: 74,1583 W Long: 74,1583 W Long: 74,1583 W Long: 74,1583 W Long: 74,1583 W Long: 74,1583 W Long: 74,1584 W Long: 74,1	Project/Site: ACP	City/County:	Wilson	Sampl	ing Date: <u>7(16/14</u>
Section, Township, Range: No. Local relief (concave, convex, none); Local relief	Applicant/Owner: Dom in ton		State	e: _ N	ing Point: <u>WW100145</u> _1
Local relief (concave, convex, none): Local relief (concave, convex, n		Section, Townsl			
Are Vegetation Soil or Hydrology significantly disturbed? Are Normal Circumstances' present? Yes No (If no, explain in Remarks.) Are Vegetation Soil or Hydrology significantly disturbed? Are Normal Circumstances' present? Yes No Are Vegetation Soil or Hydrology and attraity problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, ethydrophytic Vegetation Present? Hydrophytic Vegetation Present? Hydrophytic Vegetation Present? Hydrophytic Vegetation Present? Yes No Weltand Hydrology Present? Wetland Hydrology Present? Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Aquatic Fauna (B13) High Water Table (A2) Aquatic Fauna (B15) Water Marks (B1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Drainage Patterns (B10) Water Marks (B1) Presence of Reduced Iron (C4) Craylish Burrows (C8) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) Apial Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B3) Recent Iron Reduction in Remarks) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Fac-Neutral Test (D5) Water Stained Leaves (B9) Field Observations: Surface Water Present? Yes No Depth (inches): 720 Water Table Present? Yes No Depth (inches): 720 Wetland Hydrology Present? Yes No Depth (inches): 720 Depth (inches): 720 Wetland Hydrology Present? Yes No Depth (inches): 720 Depth (inches): 720 Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Landform (hillslope, terrace, etc.): F(a+	Local relief (con	cave. convex. none	e): <u>Lunlave</u> . 13883 W	Datum: <u>W6584</u>
Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, or Hydrology Present? Yes No Wetland Hydrology Present? Yes No No No No No No No No No No No No No		or this time of year? Yes	No (If no		
Are Vegetation Soll or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.					
SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes					
Hydrophylic Vegetation Present? Yes No No Within a Wetland? Yes No No Within a Wetland? Yes No No No No No No No No No No No No No			•	•	
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Inon Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water Table Deposits (B9) Field Observations: Surface Water (A1) Aquatic Fauna (B13) Aquatic Fauna (B13) Dryseason Water (B10) Moss Trim Lines (B16) Dryseason Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No Depth (inches): Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Dryseason Water Table (C2) Crayfish Burrows (C8) Baturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U) Wetland Hydrology Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes Yes	No Is the Sa	ampled Area	Yes /	No
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Surface Soil Cracks (B6) Surface Water (A1) Aquatic Fauna (B13) Sparsely Vegetated Concave Surface (Billing Sparsely Vegetated Concave Sparsely Vegetated Concave					
Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water (A1) Surface Water (A1) Aquatic Fauna (B13) Marl Deposits (B15) (LRR U) Drianage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Dept					
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Drift Deposits (B3) Inundation Visible on Aerial Imagery (B7) Water Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Saturation Present? Yes No Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Sparsely Vegetated Concave Surface (Bi Sparsely Vegetated Concave Surface (Bi Sparsely Vegetated Concave Surface (Bi Sparsely Vegetated Concave Surface (Bi Sparsely Vegetated Concave Surface (Bi Drift Up Drainage Patterns (B10) Drainage Patterns (B10) Drainage Patterns (B10) Drainage Patterns (B10) Drainage Patterns (B10) Drainage Patterns (B10) Drainage Patterns (B10) Drainage Patterns (B10) Drainage Patterns (B10) Drainage Patterns (B10) Drainage Patterns (B10) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U) Wetland Hydrology Present? Yes No Depth (inches): No Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	I				
Water Table Present? Yes No Depth (inches): Depth (inches): No Depth (inches): Depth (inches): No Depth (inc	Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations:	quatic Fauna (B13) arl Deposits (B15) (LRR U) rdrogen Sulfide Odor (C1) rdriged Rhizospheres along Livir esence of Reduced Iron (C4) ecent Iron Reduction in Tilled Sc ain Muck Surface (C7) ther (Explain in Remarks)	ng Roots (C3)	Sparsely Vegetater Drainage Patterns Moss Trim Lines (E Dry-Season Water Crayfish Burrows (Saturation Visible of Geomorphic Positi Shallow Aquitard (FAC-Neutral Test	d Concave Surface (B8) (B10) 316) Table (C2) C8) on Aerial Imagery (C9) on (D2) D3) (D5)
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Water Table Present? Yes No	_ Depth (inches):	_		Yes No
Remarks:	Describe Recorded Data (stream gauge, monitoring	well, aerial photos, previous ins	spections), if availa	ble:	
	Remarks:				
•					
<u> </u>	,				

VEGETATION (Four Strata) - Use scientific na	mes or pr	ants.		Sail	npling Point: _ • •	
24 30	Absolute	Dominant	Indicator	Dominance Test worksheet:		1.
Tree Stratum (Plot size: 30 x 30)	% Cover	Species?	_Status_	Number of Dominant Species		
1. MONE				That Are OBL, FACW, or FAC	: 4	(Δ)
			I	That Ale OBE, I ACTO, OT I AC	• —	. 6.3
2				Total Number of Dominant		
3			,	Species Across All Strata:	ų	(B)
				opecies Across Air otrata.		. (5)
4				Percent of Dominant Species		
5				That Are OBL, FACW, or FAC	: 100/1	(A/B)
			1	matrice obe, i hove, or i ho		. ()
6				Prevalence Index worksheet	je .	
7						ļ
8			•	Total % Cover of:	Multiply_by:	_
O				OBL species	x 1 =	1
,		= Total Cov	/er	l .		
50% of total cover:	20% o	f total cover	:	FACW species	x Z =	— i
				FAC species	x 3 =	1
Sapling/Shrub Stratum (Plot size: 30 x 30)	0			FACU species		
1. Pinus tarda	20	<u> </u>	FAC			
2. ACET rubrum	15	Ý	PAC	UPL species	x 5 =	
	. <u> </u>			Column Totals:	(A)	(B)
3. Magnotra virginiana	10	<u> </u>	FACO	Coldmit rotals.	V V	 (5)
4. Cyrilla racconiflora	15	Υ	PACO			
	- - '. '			Prevalence Index = B/A	· =	<u> </u>
5. <u>Liquidamber</u> Stracifua	_ <u> </u>	<u> N</u>	PAL	Hydrophytic Vegetation Indi	icators:	
6. Ilex opaca	_5	N	FBL			
		·		- Rapid Test for Hydrop	nytic vegetation	i i
7	<u> </u>	·			0%	1
8.				3 - Prevalence Index is ≤	2 N ¹	Į.
	75	= Total Co		i == '		ļ
		= rotal Co	ver	Problematic Hydrophytic	Vegetation ¹ (Expl	ain)
50% of total cover: <u>3</u> 5	<u>i</u> ≥ 20% d	f total cove	r: <u>1 \$</u>			Į.
Herb Stratum (Plot size: 30 ×30)				1		
				¹ Indicators of hydric soil and v		must
1. <u>NONE</u>				be present, unless disturbed	or problematic.	į
2				Definitions of Four Vegetati	ion Strata:	
3				Tree - Woody plants, excludi	ina vines. 3 in. (7.)	6 cm) or I
4				more in diameter at breast he		
				height.		
5			·	1		
6				Sapling/Shrub - Woody plan	ats, excluding vinc	es less
				than 3 in. DBH and greater th		
7				The state of the s		
8		_		Herb - All herbaceous (non-	woody) plants, red	ardless
9				of size, and woody plants les		
				Stores, and stores, present to	* *************************************	
10.				Woody vine - All woody vine	es greater than 3.	28 ft in
11				height.	3	-
	_	.		1.0.3		
12			- ——			· ·
1	()	_ = Total Co	over			
EON of total acres	200/	of total cove		1		
50% of total cover:	∠∪%	or total cove	ži· ———	•		
Woody Vine Stratum (Plot size: 36 ★36)	_					
1. Vitis rounditolia	5	V	FAL			
			- 31/2			
2				.		
3						
J			_	•		
4				- }		
15				11 10 010 0		
·				- Hydrophytic		
		_ = Total C	over	Vegetation	<i>f</i>	
50% of total cover: 2	- 5 20%	of total cov	er:	Present? Yes <u>V</u>	мо	-
				-		
Remarks: (If observed, list morphological adaptations be	elow).					

Profile Desc	ription: (Describe	to the depth	needed to docum	ent the i	indicator	or confirm	the absence of	indicators.)	\neg
Depth	Matrix		Redox	K Feature	s				
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	_Type	Loc2	Texture	Remarks	
0-8	2543/1		7.54R 1/6	_5_	<u> </u>	<u></u>	Sailo.		_
4-20	2,575/2	95 -	7.54546	5	C	\sim	10,59		_
		· 		•	·				
									-
		. — —							
									
									_
¹Tupo: C=C	oncentration, D=Dep	letion PM=P	aduced Matrix MS	. ———— S-Macko	d Sand Gr	aine	2l neation: Pl	=Pore Lining, M=Matrix.	_
Hydric Soil	Indicators: (Applic	able to all LF	RRs. unless other	wise not	ted.)	anis.		r Problematic Hydric Soils ³ :	
☐ Histosof		able to all =	Polyvalue Be			RRSTI	_	ck (A9) (LRR O)	
	oipedon (A2)		Thin Dark Su					ck (A10) (LRR S)	
	istic (A3)		Loamy Muck					Vertic (F18) (outside MLRA 1504	,B)
_	en Sulfide (A4)		Loamy Gleye				Piedmon	t Floodplain Soils (F19) (LRR P, S	, T)
Stratifie	d Layers (A5)		Depleted Ma	trix (F3)			Anomalo	us Bright Loamy Soils (F20)	1
	Bodies (A6) (LRR P		Redox Dark				(MLRA	•	
	ucky Mineral (A7) (Li		Depleted Da					ent Material (TF2)	i
	resence (A8) (LRR L	J)	Redox Depre		- 8)			illow Dark Surface (TF12)	
	uck (A9) (LRR P, T)	. (444)	Mari (F10) (L				U Other (E:	xplain in Remarks)	
1 == '	d Below Dark Surfac	e (A11)	☐ Depleted Oc ☐ Iron-Mangar	-			T) ³ Indicat	ors of hydrophytic vegetation and	
	ark Surface (A12) 'rairie Redox (A16) (MLRA 150A\	_					nd hydrology must be present,	
	Mucky Mineral (S1) (Delta Ochric		-			s disturbed or problematic.	
1 700	Gleyed Matrix (S4)		Reduced Ve						
	Redox (S5)		Piedmont Flo		•				
1 7 7	d Matrix (S6)		Anomalous l	Bright Loa	amy Soils	(F20) (ML	RA 149A, 153C, 1	153D)	
	urface (S7) (LRR P,								
Restrictive	Layer (if observed)) :						•	
Type:									- [
Depth (ii	nches):						Hydric Soil P	resent? Yes No	
Remarks:						•			
									ļ
	•								1
									1
1									
									!
									İ
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İ									
									1
	•								
-									
1									



Wetland data point wwio014s_w facing west.

Project/Site: ACP	City/County: Wilson Sampling Date: 7/18/14
Applicant/Owner: Pomunion	State: NC Sampling Point: WWiDDI4F
Investigator(s): EST LT Benton)	Section, Township, Range: N K
Landform (hillslope, terrace, etc.): Flat Subregion (LRR or MLRA): LPP Lat:	Local relief (concave, convex, none): Acres Slope (%): 5-47, 55, 64618 N Long: 78, 13858 W Datum: W658 NWI classification: PFO ne of year? Yes No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology signifi	
Are Vegetation, Soil, or Hydrology natura	
	owing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes <u>⊀</u> No	Is the Sampled Area within a Wetland? Yes X No
HYDROLOGY	
Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S	□ □ · · · · · · · · · · · · · · · · · ·
Field Observations: Surface Water Present? Yes No Depth of the present? Yes No Depth of the present? Yes No Depth of the present? Yes No Depth of the present? Yes No Depth of the present? Yes No Depth of the present? Yes No Depth of the present? Yes No Depth of the present of	n (inches): 720 Wetland Hydrology Present? Yes X No
Remarks:	

Sampling Point:	wwi o	014m

	A1. 1 A.	<u> </u>	1	
Tree Stratum (Plot size: 30 x30)		Dominant		Dominance Test worksheet:
		Species?		Number of Dominant Species That Are OBL_FACW_or FAC: (A)
1. PMVS taeda	<u> 30 </u>	<u> </u>	FAL	That Are OBL, FACW, or FAC: (A)
2. Liquidanbar styraciflya	15	У	FAL	
2. 2717010111301 5191012(4004				Total Number of Dominant
3. Acer rubrum	15	<u>y</u>	PAL	Species Across All Strata:
		•	į	· · · · · · · · · · · · · · · · · · ·
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 1001 (A/B)
6				
				Prevalence Index worksheet:
7				
8,				Total % Cover of: Multiply by:
O	40			OBL species x1 =
_		= Total Cov	_	1 ·
50% of total cover: <u>3</u> 5	20% of	total cover	12	FACW species x 2 =
30.123				FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 30 x30)				FACU species x 4 =
1. Inmolocos tinctona	20	*	FAC	
2. Persea borbania	10	<u>~</u>	PACW	UPL species x 5 =
		-		1
3. Acer rubrum	10	7	PAC	Column Totals: (A) (B)
[· · · · · · · · · · · · · · · · · · ·				·
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
				1
6				ار الـ ا - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
				1
8	17			3 - Prevalence Index is ≤3.0¹
	<u> 40 </u>	= Total Co	ver _	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 20	20% 0	f total cove	B	
<u> </u>	20,00	i total cover	·	ļ
Herb Stratum (Plot size: <u>うゃメ3D</u>)			\	¹ Indicators of hydric soil and wetland hydrology must
1. Arvindinaria gigenten	5	Y	PALIN	be present, unless disturbed or problematic.
7				
2				Definitions of Four Vegetation Strata:
3				
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
19			. 	Herb – All herbaceous (non-woody) plants, regardless
8				of size, and woody plants less than 3.28 ft tall.
				Ut size, and woody plants less than 3.20 it tail.
9				of size, and woody plants less than 5.20 it tail.
				Woody vine - All woody vines greater than 3.28 ft in
9				
9. 10. 11.				Woody vine - All woody vines greater than 3.28 ft in
9			·	Woody vine - All woody vines greater than 3.28 ft in
9			·	Woody vine - All woody vines greater than 3.28 ft in
9. 10. 11. 12.			over ,	Woody vine - All woody vines greater than 3.28 ft in
9			over ,	Woody vine - All woody vines greater than 3.28 ft in
9			over	Woody vine - All woody vines greater than 3.28 ft in
9			over	Woody vine - All woody vines greater than 3.28 ft in
9	5 20% (over ,	Woody vine - All woody vines greater than 3.28 ft in
9	5 20% (over	Woody vine - All woody vines greater than 3.28 ft in
9	5 20% (over	Woody vine - All woody vines greater than 3.28 ft in
9	5 20% (= Total Co	over	Woody vine - All woody vines greater than 3.28 ft in
9	5 20% (= Total Co	over	Woody vine - All woody vines greater than 3.28 ft in
9	5 20% (= Total Co	over	Woody vine – All woody vines greater than 3.28 ft in height.
9	5 20% (5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	= Total Co	PAL	Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic
9	5 20% (= Total Co	PAL	Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
9	5 20% 0	= Total Coof total cove	PAZ	Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic
9	5 20% c	= Total Coof total cove	PAZ	Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
9	5 20% c	= Total Coof total cove	PAZ	Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
9	5 20% c	= Total Coof total cove	PAZ	Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
9	5 20% c	= Total Coof total cove	PAZ	Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
9	5 20% c	= Total Coof total cove	PAZ	Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
9	5 20% c	= Total Coof total cove	PAL	Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
9	5 20% c	= Total Coof total cove	PAL	Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
9	5 20% c	= Total Coof total cove	PAL	Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
9	5 20% c	= Total Coof total cove	PAL	Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
9	5 20% c	= Total Coof total cove	PAL	Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
9	5 20% c	= Total Coof total cove	PAL	Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation

Profile Desc	ription: (Describe	to the depth	needed to docur	nent the i	indicator o	or confirm	n the absence of	indicators.)
Depth	Matrix			x Feature				
(inches)	Z.5Y3/	- 95 -	7.54R46	<u> </u>	Type'	_Loc²	Texture	Remarks
0-13						<u>_w</u>	<u>Sa.10.</u>	
18-20	2,543/1	90	2,54 6/1	0		<u>_M_</u>	Sr, clilo.	
		-		. ——				
				_				
¹ Type: C=C	oncentration, D=Dep	oletion. RM=	Reduced Matrix, M	 S=Masked	d Sand Gra	ains.	² Location: Pl	_=Pore Lining, M=Matrix.
	Indicators: (Applic							r Problematic Hydric Soils ³ :
☐ Histosol	(A1)		Polyvalue Be					ck (A9) (LRR O)
	pipedon (A2)		Thin Dark Su					ck (A10) (LRR S)
_	stic (A3)		Loamy Muck			(O)		Vertic (F18) (outside MLRA 150A,B) t Floodplain Soils (F19) (LRR P, S, T)
	en Sulfide (A4) d Layers (A5)		Depleted Ma		(1-2)			us Bright Loamy Soils (F20)
	Bodies (A6) (LRR F	P, T, U)	Redox Dark		F6)		(MLRA	
	ucky Mineral (A7) (L		Depleted Da				77	ent Material (TF2)
_	resence (A8) (LRR I	J)	Redox Depr		-8)			allow Dark Surface (TF12) xplain in Remarks)
_	ıck (A9) (LRR P, T) d Below Dark Surfac	ce (A11)	☐ Marl (F10) (I		(MLRA 1	51)	Other (Ex	xpiain in Remarks)
-	ark Surface (A12)	、	Iron-Mangar		-		,T) ³ Indicate	ors of hydrophytic vegetation and
	rairie Redox (A16) (, ,	•			nd hydrology must be present,
	Aucky Mineral (S1) ((LRR _. O, S)	Delta Ochrid					s disturbed or problematic.
	Sleyed Matrix (S4) Redox (S5)		Reduced Ve					
	d Matrix (S6)						RA 149A, 153C, 1	153D)
	ırface (S7) (LRR P,							
	Layer (if observed):						
Type:								resent? Yes X No No
	iches):						Hydric Soil P	resent? Yes // No
Remarks:							,	·
	4							
ļ								
!								
1								



Wetland data point wwio014f_w facing southwest.

Project/Site: ACP	City/County: Wild	oon	_ Sampling Date: 7/16/14
Applicant/Owner: Dominion		State: NL	Sampling Point: Wvi 00142 u
Investigator(s): ESI (J Benton)	Section, Township, F		
Landform (hillslope, terrace, etc.): Flat			ON & Slope (%):41,
Subregion (LRR or MLRA); LQ Q \> Lat:	35,64623 N	Lang: 78.138	3 5. W Datum: W658
Soil Map Unit Name: Rains Sendy loam		NIM alcorit	icotion: N/A
· 1	4		•
Are climatic / hydrologic conditions on the site typical for this tim			
Are Vegetation, Soil, or Hydrology signif			
Are Vegetation, Soil, or Hydrology natur	ally problematic? (If	needed, explain any answ	ers in Remarks.)
SUMMARY OF FINDINGS – Attach site map sho	wing sampling poin	t locations, transect	s, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: Yes No Yes No			No
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indi	cators (minimum of two required)
Primary Indicators (minimum of one is required; check all that		···	oil Cracks (B6)
Surface Water (A1)			/egetated Concave Surface (B8)
	its (B15) (LRR U) Sulfide Odor (C1)		Pattems (B10) Lines (B16)
	hizospheres along Living Ro	_	n Water Table (C2)
	f Reduced Iron (C4)	· · · · —	urrows (C8)
Drift Deposits (B3)	Reduction in Tilled Soils (C	C6) 🔲 Saturation	Visible on Aerial Imagery (C9)
	Surface (C7)	= :	nic Position (D2)
	lain in Remarks)	_	quitard (D3)
Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)			ral Test (D5) n moss (D8) (LRR T, U)
Field Observations:			
Surface Water Present? Yes No Depth	(inches): NA	*	
Water Table Present? Yes No Depth			_
Saturation Present? Yes No X Depth (includes capillary fringe)	(inches): 77.0	Wetland Hydrology Pres	sent? Yes No
Describe Recorded Data (stream gauge, monitoring well, aer	ial photos, previous inspect	ions), if available:	
Demodes			
Remarks:			
			•

	Abaalusa	Daminant	Indiantas	Damin and Tract was delaborate
Tree Stratum (Plot size; 30,430)	Absolute % Cover	Species?	Indicator	Dominance Test worksheet:
Tiee Stratum (Flot size,	25	Openes:		Number of Dominant Species That Are OBL, FACW, or FAC: (A)
1. Pinvs tucda		<u> </u>	ME	That Are OBL, FACW, or FAC: (A)
2. Overus alba	15	Υ _	FACIL	1
3. Liquidanbar styraciflug	6	7	FIA	Total Number of Dominant
	10	Ń	PALU	Species Across All Strata: (B)
4. Oxydendion arborcism			FHOU	Percent of Dominant Species \$9 %
5.				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
				marke obe, ragiv, or rac (Ab)
6				Prevalence Index worksheet:
7				
8				Total % Cover of: Multiply by:
·	1.2	= Total Co		OBL species x 1 =
0.				
50% of total cover: <u>32</u>	<u>ა</u> 20% იქ	total cove	r: <u>/ ඊ </u>	FACW species x 2 =
Sapling/Shrub Stratum (Plot size:うっぱつ)				FAC species x 3 =
	15	У	Eno.	FACU species x 4 =
1. Symplocos tractoria			THE	
2. Ilex Opaca	10	<u> </u>	FAC	UPL species x 5 =
3. Liquidamlar Stracifly	lo	À	PAL	Column Totals: (A) (B)
4				Prevalence Index = B/A =
5				
				Hydrophytic Vegetation Indicators:
6				- Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8.			_	
·	- 2/			3 - Prevalence Index is ≤3.0¹
•		= Total Co		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: <u>17</u> .	<u>5</u> 20% o	f total cove	er: <u> </u>	
Herb Stratum (Plot size: 30以30)				1
(Flot size. 5 7.55)	=	٧	EW-	¹Indicators of hydric soil and wetland hydrology must
1. Stimploros tructura		<u> </u>	117	be present, unless disturbed or problematic.
2				Definitions of Four Vegetation Strata:
3				Tree Woody plants, excluding vines, 3 in. (7.6 cm) or
4	_		·	more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7,				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				
				Herb – All herbaceous (non-woody) plants, regardless
				of size, and woody plants less than 3.28 ft tall.
9	_			
				Minade vine All woods vines greater than 2.30 ft in
10				traday trice is mireday trice greater cramera.
				Woody vine – All woody vines greater than 3.28 ft in height.
10				traday trice is mireday trice greater cramera.
10				traday trice is mireday trice greater cramera.
10. 11. 12.		= Total C	over	traday trice is mireday trice greater cramera.
10			over	traday trice is mireday trice greater cramera.
10		= Total C	over	traday trice is mireday trice greater cramera.
10		= Total C	over	traday trice is mireday trice greater cramera.
10		= Total C	over	traday trice is mireday trice greater cramera.
10		= Total C	over	traday trice is mireday trice greater cramera.
10		= Total C	over	traday trice is mireday trice greater cramera.
10		= Total C	over	traday trice is mireday trice greater cramera.
10		= Total C	over	traday trice is mireday trice greater cramera.
10		= Total C	over	height.
10	5 5 20% o 5	= Total C	over er: \ FAL	height.
10. 11. 12. 50% of total cover: 2. Woody Vine Stratum (Plot size: 30×30) 1. VIHS COMMENTIA 2. Smilax (Ofmerfolia 3. 4. 5.	5 5 20% c 5 5	= Total Co	over er: \ FAC FAC	height. Hydrophytic Vegetation
10	5 5 20% c 5 5	= Total C	over er: \ FAC FAC	height. Hydrophytic Vegetation
10. 11. 12. 50% of total cover: 2. Woody Vine Stratum (Plot size: 30x30) 1. VIH'S rothalifolia 2. Smilax (otmalifolia 3. 4. 5. 50% of total cover:	5 20% c 5 5 10 10 20% c	= Total Co	over er: \ FAC FAC	height. Hydrophytic Vegetation
10. 11. 12. 50% of total cover: 2. Woody Vine Stratum (Plot size: 30×30) 1. VIH'S COTUNDIFOLIA 2. Smilax (Ofundifolia 3. 4. 5.	5 20% c 5 5 10 10 20% c	= Total Co	over er: \ FAC FAC	height. Hydrophytic Vegetation
10. 11. 12. 50% of total cover: 2. Woody Vine Stratum (Plot size: 30x30) 1. Vitis rot ndifolia 2. Smilax (otandifolia 3. 4. 5. 50% of total cover:	5 20% c 5 5 10 10 20% c	= Total Co	over er: \ FAC FAC	height. Hydrophytic Vegetation
10. 11. 12. 50% of total cover: 2. Woody Vine Stratum (Plot size: 30x30) 1. VIH'S rothalifolia 2. Smilax (otmalifolia 3. 4. 5. 50% of total cover:	5 20% c 5 5 10 10 20% c	= Total Co	over er: \ FAC FAC	height. Hydrophytic Vegetation
10. 11. 12. 50% of total cover: 2. Woody Vine Stratum (Plot size: 30x30) 1. Vitis rot ndifolia 2. Smilax rotandifolia 3. 4. 5.	5 20% c 5 5 10 10 20% c	= Total Co	over er: \ FAC FAC	height. Hydrophytic Vegetation
10. 11. 12. 50% of total cover: 2. Woody Vine Stratum (Plot size: 30x30) 1. Vitis rot ndifolia 2. Snilax rotadifolia 3. 4. 5.	5 20% c 5 5 10 10 20% c	= Total Co	over er: \ FAC FAC	height. Hydrophytic Vegetation
10. 11. 12. 50% of total cover: 2. Woody Vine Stratum (Plot size: 30x30) 1. Vitis rot ndifolia 2. Snilax rotadifolia 3. 4. 5.	5 20% c 5 5 10 10 20% c	= Total Co	over er: \ FAC FAC	height. Hydrophytic Vegetation
10. 11. 12. 50% of total cover: 2. Woody Vine Stratum (Plot size: 30x30) 1. Vitis rot ndifolia 2. Snilax rotadifolia 3. 4. 5.	5 20% c 5 5 10 10 20% c	= Total Co	over er: \ FAC FAC	height. Hydrophytic Vegetation
10. 11. 12. 50% of total cover: 2. Woody Vine Stratum (Plot size: 30x30) 1. VIH'S roting Folia 2. Smilax (04m2,401ia 3. 4. 5.	5 20% c 5 5 10 10 20% c	= Total Co	over er: \ FAC FAC	height. Hydrophytic Vegetation

Profile Desc	ription: (Describe	to the depth	needed to docun	nent the	indicator	or confirm	n the absence of i	ndicators.)	
Depth (inches)	Matrix Color (moist)		Redox Color (moist)	x Feature %	S Type ¹	Loc ²	Texture	Remarks	
U~1)	2,54 3/5	100	COIOI (IIIOISI)				Jo.	remans	
12-16	2,54 4/4	10.0					Cl_1l_0	****	
16-20			7,54R 4/6	5	۷.		Cl.10,	<u></u>	
10-60	254 1/2	11	7,3 / 16	. 	· — ·	_M_	Clilor_		
					· ——				
				· 	. ——				
		. —— –						· h	
		 _							
	oncentration, D=Dep					ains.		=Pore Lining, M=Matr	
L	Indicators: (Applic	able to all Li					_	Problematic Hydric	Soils*:
Histosol			Polyvalue Be					k (A9) (LRR O) k (A10) (LRR S)	
	pipedon (A2) istic (A3)		Loamy Muck					Vertic (F18) (outside	MLRA 150A,B)
	en Sulfide (A4)		Loamy Gleye			,		Floodplain Soils (F19)	
	d Layers (A5)		Depleted Ma					s Bright Loamy Soils	(F20)
	Bodies (A6) (LRR F	-	Redox Dark	,			□ (MLRA	•	
	ucky Mineral (A7) (L resence (A8) (LRR l		Depleted Da Redox Depre					nt Material (TF2) low Dark Surface (TF	12)
	uck (A9) (LRR P, T)	-,	Marl (F10) (L		-/			plain in Remarks)	···- /
☐ Deplete	d Below Dark Surfac	ce (A11)	Depleted Oc				•		
1 	ark Surface (A12)		Iron-Mangar				•	rs of hydrophytic vege	
The same of the sa	rairie Redox (A16) (Mucky Mineral (S1) (-	Umbric Surfa			•		d hydrology must be p disturbed or problem	
-	Gleyed Matrix (S4)	LIKIK O, O)	Reduced Ve					distalbed of problem	auc.
P000	Redox (S5)		Piedmont Fl						
	d Matrix (S6)		Anomalous I	Bright Loa	amy Soils	(F20) (ML 1	RA 149A, 153C, 1	53D)	
	urface (S7) (LRR P, Layer (if observed								
Type:	Layer (II observed)•							
1	nches):		_	100			Hydric Soil Pr	esent? Yes	No X
Remarks:	iches).			<u> </u>			11,741.000.11		
Temans.									
1									
j			-						
]									
								•	



Upland data point wwio014_u facing northeast.

State: NC Sampling Point: NWI CE Section, Township, Range: NP Lat: 35,64660 N Long: 74,1583 W Datum Name: NP Sold Map Link Name: NO.15 Sub-Att Deam No. Caral relief (concave, convex, none): LWNAW classification: 255 Sold Map Link Name: No.15 Sub-Att Deam No. Caral relief (concave, convex, none): LWNAW classification: 255 No. Lat: 35,64660 N Long: 74,1583 W Datum Name: No. 15,64660 N Long: 74,1583 W Datum Name: No. 15,64660 N Long: 74,1583 W Datum Name: No. 15,64660 N Long: 74,1583 W Datum Name: No. 15,64660 N Long: 74,1583 W Datum Name: No. 15,64660 N Long: 74,1583 W Datum Name: No. 15,64660 N Long: 74,1583 W Datum Name: No. 15,64660 N Long: 74,1583 W Datum Name: No. 15,64660 N Long: 74,1583 W Datum Name: No. 15,64660 N Long: 74,1583 W Datum Name: No. 15,64660 N Long: 74,1583 W Datum Name: No. 15,64660 N Long: 74,1583 W Datum Name: No. 15,64660 N Long: 74,1583 W Datum Name: No. 15,64660 N Long: 74,1583 W Long: No. 15,64660 N Long: 74,1583 W Long: No. 15,64660 N Long: 74,1583 W Long: No. 15,64660 N Long: 74,1583 W Long: No. 15,64660 N Long: 74,1583 W Long: No. 15,64660 N Long: 74,1583 W Long: No. 15,64660 N Long: 74,1583 W Long: No. 15,64660 N Long: 74,1583 W Long: No. 15,64660 N Long: 74,1583 W Long: No. 15,64660 N Long: 74,1583 W Long: No. 15,64660 N Long: 74,1583 W Long: No. 15,64660 N Long: 74,1583 W Long: 74,1583 W Long: 74,1583 W Long: 74,1583 W Long: 74,1583 W Long: 74,1583 W Long: 74,1583 W Long: 74,1583 W Long: 74,1583 W Long: 74,1584 W Long: 74,1	Project/Site: ACP	City/County:	Wilson	Sampl	ing Date: <u>7(16/14</u>
Section, Township, Range: No. Local relief (concave, convex, none); Local relief	Applicant/Owner: Dom in ton		State	e: _ N	ing Point: <u>WW100145</u> _1
Local relief (concave, convex, none): Local relief (concave, convex, n		Section, Townsh			
Are Vegetation Soil or Hydrology significantly disturbed? Are Normal Circumstances' present? Yes No (If no, explain in Remarks.) Are Vegetation Soil or Hydrology significantly disturbed? Are Normal Circumstances' present? Yes No Are Vegetation Soil or Hydrology and attraity problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, ethydrophytic Vegetation Present? Hydrophytic Vegetation Present? Hydrophytic Vegetation Present? Hydrophytic Vegetation Present? Yes No Weltand Hydrology Present? Wetland Hydrology Present? Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Aquatic Fauna (B13) High Water Table (A2) Aquatic Fauna (B15) Water Marks (B1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Drainage Patterns (B10) Water Marks (B1) Presence of Reduced Iron (C4) Craylish Burrows (C8) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) Apial Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B3) Recent Iron Reduction in Remarks) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Fac-Neutral Test (D5) Water Stained Leaves (B9) Field Observations: Surface Water Present? Yes No Depth (inches): 720 Water Table Present? Yes No Depth (inches): 720 Wetland Hydrology Present? Yes No Depth (inches): 720 Depth (inches): 720 Wetland Hydrology Present? Yes No Depth (inches): 720 Depth (inches): 720 Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Landform (hillslope, terrace, etc.): F(a+	Local relief (con	cave. convex. none	e): <u>Lunlave</u> . 13883 W	Datum: <u>W6584</u>
Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, or Hydrology Present? Yes No Wetland Hydrology Present? Yes No No No No No No No No No No No No No		or this time of year? Yes	No (If no		
Are Vegetation Soll or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.					
SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes					
Hydrophylic Vegetation Present? Yes No No Within a Wetland? Yes No No Within a Wetland? Yes No No No No No No No No No No No No No			•	•	
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Inon Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water Table Deposits (B9) Field Observations: Surface Water (A1) Aquatic Fauna (B13) Aquatic Fauna (B13) Dryseason Water (B10) Moss Trim Lines (B16) Dryseason Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No Depth (inches): Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Dryseason Water Table (C2) Crayfish Burrows (C8) Baturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U) Wetland Hydrology Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes Yes	No Is the Sa	ampled Area	Yes /	No
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Surface Soil Cracks (B6) Surface Water (A1) Aquatic Fauna (B13) Sparsely Vegetated Concave Surface (Billing Sparsely Vegetated Concave Sparsely Vegetated Concave					
Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water (A1) Surface Water (A1) Aquatic Fauna (B13) Marl Deposits (B15) (LRR U) Drianage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Dept					
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Drift Deposits (B3) Inundation Visible on Aerial Imagery (B7) Water Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Saturation Present? Yes No Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Sparsely Vegetated Concave Surface (Bi Sparsely Vegetated Concave Surface (Bi Sparsely Vegetated Concave Surface (Bi Sparsely Vegetated Concave Surface (Bi Sparsely Vegetated Concave Surface (Bi Drift Up Drainage Patterns (B10) Drainage Patterns (B10) Drainage Patterns (B10) Drainage Patterns (B10) Drainage Patterns (B10) Drainage Patterns (B10) Drainage Patterns (B10) Drainage Patterns (B10) Drainage Patterns (B10) Drainage Patterns (B10) Drainage Patterns (B10) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U) Wetland Hydrology Present? Yes No Depth (inches): No Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	I				
Water Table Present? Yes No Depth (inches): Depth (inches): No Depth (inches): Depth (inches): No Depth (inc	Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations:	quatic Fauna (B13) arl Deposits (B15) (LRR U) rdrogen Sulfide Odor (C1) rdriged Rhizospheres along Livir esence of Reduced Iron (C4) ecent Iron Reduction in Tilled Sc ain Muck Surface (C7) ther (Explain in Remarks)	ng Roots (C3)	Sparsely Vegetater Drainage Patterns Moss Trim Lines (E Dry-Season Water Crayfish Burrows (Saturation Visible of Geomorphic Positi Shallow Aquitard (FAC-Neutral Test	d Concave Surface (B8) (B10) 316) Table (C2) C8) on Aerial Imagery (C9) on (D2) D3) (D5)
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Water Table Present? Yes No	_ Depth (inches):	_		Yes No
Remarks:	Describe Recorded Data (stream gauge, monitoring	well, aerial photos, previous ins	spections), if availa	ble:	
	Remarks:				
•					
<u> </u>	,				

· · · · · · · · · · · · · · · · · · ·			1	<u> </u>
Tree Stratum (Plot size: 30 x 30		Dominant		Dominance Test worksheet:
	% Cover	Species?	Status	Number of Dominant Species That Are ORL FACW or FAC: (A)
1. MONC				That Are OBL, FACW, or FAC: (A)
2				
			,	Total Number of Dominant
3				Species Across All Strata: (B)
4				
				Percent of Dominant Species That Are OBL, FACW, or FAC: 1001/ (A/B)
5				That Are OBL, FACW, or FAC:(0/b) (A/B)
6				
7				Prevalence Index worksheet:
	·			Total % Cover of: Multiply by:
8	· ——			
		= Total Cov	/er	OBL species x 1 =
50% of total cover:	20% 0	f total cover	•	FACW species x 2 =
	20 /6 0	total cover	•	FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 30 x 30)	_		_	
1. Pirus tarda	20	Y	FBC	FACU species x 4 =
2. Acerrubrum	15	V	PAC	UPL species x 5 =
	. 			Column Totals: (A) (B)
3. Magnolia virginiana	10	<u> </u>	PACO	Coldini Totals (A) (D)
4. Cristla raconiflora		Y	PACO	
				Prevalence Index = B/A =
5. <u>Liquidamber Stracifua</u>		<u> </u>	PAL	Hydrophytic Vegetation Indicators:
6. Ilex opaca	5	N	FRL	- Rapid Test for Hydrophytic Vegetation
,		-		
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.01
	75	= Total Co	VOF	1 == 1
, m				Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: <u>37</u>	<u>i 🏞</u> 20% o	f total cover	r: <u>1 ></u>	
Herb Stratum (Plot size: 30 × 30)				11-di-t
				Indicators of hydric soil and wetland hydrology must
1. <u>NONE</u>	_			be present, unless disturbed or problematic.
2				Definitions of Four Vegetation Strata:
				_
3			. ———	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6		-		Sapling/Shrub - Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				
				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12				
				'
	(1)	- Total Co	War	
		_ = Total Co		
50% of total cover:		_ = Total Co of total cove		
Woody Vine Stratum (Plot size: 36 ★30)			er:	
Woody Vine Stratum (Plot size: 36 +36) 1. Vitis rotadito (1)	5	of total cove	er:	
Woody Vine Stratum (Plot size: 36 +36) 1. VITI (OTALITO (IA) 2.	5	of total cove	er:	-
Woody Vine Stratum (Plot size: 36 +36) 1. Vitis rotadito (1)	5	of total cove	er:	
Woody Vine Stratum (Plot size: 36 +36) 1. VITI (OTALITO (IA) 2.	5	of total cove	er:	
Woody Vine Stratum (Plot size: 36 +36) 1. VITI TOTALITO (IA 2. 3.	5	of total cove	er:	
Woody Vine Stratum (Plot size: 36 +36) 1. VITI TOTALITO (IA 2. 3.	5	of total cove	FAL	- Hydrophytic
Woody Vine Stratum (Plot size: 36 +36) 1. VITI TOTALITO (IA 2. 3.	5	of total cove	FAL	Vegetation
Woody Vine Stratum (Plot size: 36 ★36) 1.	5	of total cove	FAL Over	
Woody Vine Stratum (Plot size: 36 + 36)	5 20%	of total cove	FAL Over	Vegetation
Woody Vine Stratum (Plot size: 36 + 36)	5 20%	of total cove	FAL Over	Vegetation
Woody Vine Stratum (Plot size: 36 + 36)	5 20%	of total cove	FAL Over	Vegetation
Woody Vine Stratum (Plot size: 36 + 36)	5 20%	of total cove	FAL Over	Vegetation
Woody Vine Stratum (Plot size: 36 + 36)	5 20%	of total cove	FAL Over	Vegetation
Woody Vine Stratum (Plot size: 36 + 36)	5 20%	of total cove	FAL Over	Vegetation
Woody Vine Stratum (Plot size: 36 + 36)	5 20%	of total cove	FAL Over	Vegetation
Woody Vine Stratum (Plot size: 36 + 36)	5 20%	of total cove	FAL Over	Vegetation
Woody Vine Stratum (Plot size: 36 + 36)	5 20%	of total cove	FAL Over	Vegetation
Woody Vine Stratum (Plot size: 36 + 36)	5 20%	of total cove	FAL Over	Vegetation

Profile Desc	ription: (Describe	to the depth	needed to docum	ent the i	indicator	or confirm	the absence of	indicators.)	\neg
Depth	Matrix		Redox	K Feature	s				
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	_Type	Loc2	Texture	Remarks	
0-8	2543/1		7.54R 1/6	_5_	<u> </u>		Sailo.		_
4-20	2,575/2	95 -	7.54546	5	C	\sim	10,59		_
		· 		•	·				
									-
		. — —							
									
									_
¹Tupo: C=C	oncentration, D=Dep	letion PM=P	aduced Matrix MS	. ———— S-Macko	d Sand Gr	aine	2l neation: Pl	=Pore Lining, M=Matrix.	_
Hydric Soil	Indicators: (Applic	able to all LF	RRs. unless other	wise not	ted.)	anis.		r Problematic Hydric Soils ³ :	
☐ Histosof		able to all =	Polyvalue Be			RRSTI	_	ck (A9) (LRR O)	
	oipedon (A2)		Thin Dark Su					ck (A10) (LRR S)	
	istic (A3)		Loamy Muck					Vertic (F18) (outside MLRA 1504	,B)
_	en Sulfide (A4)		Loamy Gleye				Piedmon	t Floodplain Soils (F19) (LRR P, S	, T)
Stratifie	d Layers (A5)		Depleted Ma	trix (F3)			Anomalo	us Bright Loamy Soils (F20)	1
	Bodies (A6) (LRR P		Redox Dark				(MLRA	•	
	ucky Mineral (A7) (Li		Depleted Da					ent Material (TF2)	i
	resence (A8) (LRR L	J)	Redox Depre		- 8)			illow Dark Surface (TF12)	
	uck (A9) (LRR P, T)	. (444)	Mari (F10) (L				U Other (E:	xplain in Remarks)	
1 == '	d Below Dark Surfac	e (A11)	☐ Depleted Oc ☐ Iron-Mangar	-			T) ³ Indicat	ors of hydrophytic vegetation and	
	ark Surface (A12) 'rairie Redox (A16) (MLRA 150A\	_					nd hydrology must be present,	
	Mucky Mineral (S1) (Delta Ochric		-			s disturbed or problematic.	
1 700	Gleyed Matrix (S4)		Reduced Ve						
	Redox (S5)		Piedmont Flo		•				
1 7 7	d Matrix (S6)		Anomalous l	Bright Loa	amy Soils	(F20) (ML	RA 149A, 153C, 1	153D)	
	urface (S7) (LRR P,								
Restrictive	Layer (if observed)) :						•	
Type:									
Depth (ii	nches):						Hydric Soil P	resent? Yes No	
Remarks:						•			
									ļ
	•								1
									1
1									
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1									



Wetland data point wwio014s_w facing west.

Project/Site: ACP	City/County: Wilson Sampling Date: 7/18/14
Applicant/Owner: Pomunion	State: NC Sampling Point: WWiDDI4F
Investigator(s): EST LT Benton)	Section, Township, Range: N K
Landform (hillslope, terrace, etc.): Flat Subregion (LRR or MLRA): LPP Lat:	Local relief (concave, convex, none): Acres Slope (%): 5-47, 55, 64618 N Long: 78, 13858 W Datum: W658 NWI classification: PFO ne of year? Yes No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology signifi	
Are Vegetation, Soil, or Hydrology natura	
	owing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes <u>⊀</u> No	Is the Sampled Area within a Wetland? Yes X No
HYDROLOGY	
Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S	□ □ · · · · · · · · · · · · · · · · · ·
Field Observations: Surface Water Present? Yes No Depth of the present? Yes No Depth of the present? Yes No Depth of the present? Yes No Depth of the present? Yes No Depth of the present? Yes No Depth of the present? Yes No Depth of the present? Yes No Depth of the present of	n (inches): 720 Wetland Hydrology Present? Yes X No
Remarks:	

Sampling Point:	wwi o	014m

	A1. 1 A.	<u> </u>	1	
Tree Stratum (Plot size: 30 x30)		Dominant		Dominance Test worksheet:
		Species?		Number of Dominant Species That Are OBL_FACW_or FAC: (A)
1. PMVS taeda	<u> 30 </u>	<u> </u>	FAL	That Are OBL, FACW, or FAC: (A)
2. Liquidanbar styraciflya	15	У	FAL	
2. 2717010111301 5191012(4004				Total Number of Dominant
3. Acer rubrum	15	<u>y</u>	PAL	Species Across All Strata:
		•	į	· · · · · · · · · · · · · · · · · · ·
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 1001 (A/B)
6				
				Prevalence Index worksheet:
7				
8,				Total % Cover of: Multiply by:
O	40			OBL species x1 =
_		= Total Cov	_	1 ·
50% of total cover: <u>3</u> 5	20% of	total cover	12	FACW species x 2 =
30.123		*****		FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 30 x30)				FACU species x 4 =
1. Inmolocos tinctona	20`	*	FAC	
2. Persea borbania	10	$\overline{\lambda}$	PACW	UPL species x 5 =
		-		1
3. Acer rubrum	10	7	PAC	Column Totals: (A) (B)
[· · · · · · · · · · · · · · · · · · ·				·
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
				1
6				ار الـ ا - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
				1
8	17			3 - Prevalence Index is ≤3.0¹
	<u> 40 </u>	= Total Co	ver _	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 20	20% 0	f total cove	B	
<u> </u>	20700	i total cover	·	ļ
Herb Stratum (Plot size: <u>うゃメ3D</u>)			\	¹ Indicators of hydric soil and wetland hydrology must
1. Arvindinaria gigenten	5	Y	PALIN	be present, unless disturbed or problematic.
7				
2				Definitions of Four Vegetation Strata:
3				
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
19			. 	Herb – All herbaceous (non-woody) plants, regardless
8				of size, and woody plants less than 3.28 ft tall.
				Ut size, and woody plants less than 3.20 it tail.
9				of size, and woody plants less than 5.20 it tail.
				Woody vine - All woody vines greater than 3.28 ft in
9				
9. 10. 11.				Woody vine - All woody vines greater than 3.28 ft in
9			·	Woody vine - All woody vines greater than 3.28 ft in
9			·	Woody vine - All woody vines greater than 3.28 ft in
9. 10. 11. 12.			over ,	Woody vine - All woody vines greater than 3.28 ft in
9			over ,	Woody vine - All woody vines greater than 3.28 ft in
9			over	Woody vine - All woody vines greater than 3.28 ft in
9			over	Woody vine - All woody vines greater than 3.28 ft in
9	5 20% (over ,	Woody vine - All woody vines greater than 3.28 ft in
9	5 20% (over	Woody vine - All woody vines greater than 3.28 ft in
9	5 20% (over	Woody vine - All woody vines greater than 3.28 ft in
9	5 20% (= Total Co	over	Woody vine - All woody vines greater than 3.28 ft in
9	5 20% (= Total Co	over	Woody vine - All woody vines greater than 3.28 ft in
9	5 20% (= Total Co	over	Woody vine – All woody vines greater than 3.28 ft in height.
9	5 20% (5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	= Total Co	PAL	Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic
9	5 20% (= Total Co	PAL	Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
9	5 20% 0	= Total Coof total cove	PAL	Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic
9	5 20% c	= Total Coof total cove	PAL	Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
9	5 20% c	= Total Coof total cove	PAL	Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
9	5 20% c	= Total Coof total cove	PAL	Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
9	5 20% c	= Total Coof total cove	PAL	Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
9	5 20% c	= Total Coof total cove	PAL	Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
9	5 20% c	= Total Coof total cove	PAL	Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
9	5 20% c	= Total Coof total cove	PAL	Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
9	5 20% c	= Total Coof total cove	PAL	Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
9	5 20% c	= Total Coof total cove	PAL	Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
9	5 20% c	= Total Coof total cove	PAL	Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
9	5 20% c	= Total Coof total cove	PAL	Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation

Profile Desc	ription: (Describe	to the depth	needed to docur	nent the i	indicator o	or confirm	n the absence of	indicators.)
Depth	Matrix			x Feature				
(inches)	Z.5Y3/	- 95 -	7.54R46	<u> </u>	Type'	_Loc²	Texture	Remarks
0-13						<u>_w</u>	<u>Sa.10.</u>	
18-20	2,543/1	90	2,54 6/1	0		<u>_M_</u>	Sr, clilo.	
		-		. ——				
				_				
¹ Type: C=C	oncentration, D=Dep	oletion. RM=	Reduced Matrix, M	 S=Masked	d Sand Gra	ains.	² Location: Pl	_=Pore Lining, M=Matrix.
	Indicators: (Applic							r Problematic Hydric Soils ³ :
☐ Histosol	(A1)		Polyvalue Be					ck (A9) (LRR O)
	pipedon (A2)		Thin Dark Su					ck (A10) (LRR S)
_	stic (A3)		Loamy Muck			(O)		Vertic (F18) (outside MLRA 150A,B) t Floodplain Soils (F19) (LRR P, S, T)
	en Sulfide (A4) d Layers (A5)		Depleted Ma		(1-2)			us Bright Loamy Soils (F20)
	Bodies (A6) (LRR F	P, T, U)	Redox Dark		F6)		(MLRA	
	ucky Mineral (A7) (L		Depleted Da				77	ent Material (TF2)
_	resence (A8) (LRR I	J)	Redox Depr		-8)			allow Dark Surface (TF12) xplain in Remarks)
_	ıck (A9) (LRR P, T) d Below Dark Surfac	ce (A11)	☐ Marl (F10) (I		(MLRA 1	51)	Other (Ex	xpiain in Remarks)
-	ark Surface (A12)	、	Iron-Mangar		-		,T) ³ Indicate	ors of hydrophytic vegetation and
	rairie Redox (A16) (, ,	•			nd hydrology must be present,
	Aucky Mineral (S1) ((LRR _. O, S)	Delta Ochrid					s disturbed or problematic.
	Sleyed Matrix (S4) Redox (S5)		Reduced Ve					
	d Matrix (S6)						RA 149A, 153C, 1	153D)
	ırface (S7) (LRR P,							
	Layer (if observed):						
Type:								resent? Yes X No No
	iches):						Hydric Soil P	resent? Yes // No
Remarks:							,	·
	4							
ļ								
!								
1								



Wetland data point wwio014f_w facing southwest.

Project/Site: ACP	City/County: Wild	oon	_ Sampling Date: 7/16/14
Applicant/Owner: Dominion		State: NL	Sampling Point: Wvi 00142 u
Investigator(s): ESI (J Benton)	Section, Township, F		
Landform (hillslope, terrace, etc.): Flat			ON & Slope (%):41,
Subregion (LRR or MLRA); LQ Q \> Lat:	35,64623 N	Lang: 78.138	3 5. W Datum: W658
Soil Map Unit Name: Rains Sendy loam		NIM alcorit	icotion: N/A
· 1	4		•
Are climatic / hydrologic conditions on the site typical for this tim			
Are Vegetation, Soil, or Hydrology signif			
Are Vegetation, Soil, or Hydrology natur	ally problematic? (If	needed, explain any answ	ers in Remarks.)
SUMMARY OF FINDINGS – Attach site map sho	wing sampling poin	t locations, transect	s, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: Yes No Yes No			No
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indi	cators (minimum of two required)
Primary Indicators (minimum of one is required; check all that		···	oil Cracks (B6)
Surface Water (A1)			/egetated Concave Surface (B8)
	its (B15) (LRR U) Sulfide Odor (C1)		Pattems (B10) Lines (B16)
	hizospheres along Living Ro	_	n Water Table (C2)
	f Reduced Iron (C4)	· · · — ·	urrows (C8)
Drift Deposits (B3)	Reduction in Tilled Soils (C	C6) 🔲 Saturation	Visible on Aerial Imagery (C9)
	Surface (C7)	= :	nic Position (D2)
	lain in Remarks)	_	quitard (D3)
Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)			ral Test (D5) n moss (D8) (LRR T, U)
Field Observations:			
Surface Water Present? Yes No Depth	(inches): NA	*	
Water Table Present? Yes No Depth			_
Saturation Present? Yes No X Depth (includes capillary fringe)	(inches): 77.0	Wetland Hydrology Pres	sent? Yes No
Describe Recorded Data (stream gauge, monitoring well, aer	ial photos, previous inspect	ions), if available:	
Demodes			
Remarks:			
			•

	Abaaluta	Daminant	Indicator	Daminon a Tratavariahan
Tree Stratum (Plot size; 30,430)	Absolute % Cover	Species?	Indicator	Dominance Test worksheet:
Tiee Stratum (Flot size,	25	Openes:		Number of Dominant Species That Are OBL, FACW, or FAC: (A)
1. Pinvs tucda		<u> </u>	MAC	That Are OBL, FACW, or FAC: (A)
2. Overus alba	15	Υ _	FACIL	1
3. Liquidanbar styraciflug	<u>6</u>	7	FIX	Total Number of Dominant
	10	Ń	PALU	Species Across All Strata: (B)
4. Oxydendion arborcism	- 10		FHOU	Percent of Dominant Species \$9 %
5.				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
				matrie Obt., PAGW, OT AC (AD)
6				Prevalence Index worksheet:
7				
8				Total % Cover of: Multiply by:
·	1.2	= Total Co		OBL species x 1 =
0.	1			
50% of total cover: <u>32</u>	FACW species x 2 =			
Sapling/Shrub Stratum (Plot size:うっぱつ)	FAC species x 3 =			
	15	У	Eno.	FACU species x 4 =
1. Symplocos tractoria			THE	
2. Ilex Opaca	10	<u> </u>	FAC	UPL species x 5 =
3. Liquidamlar Stracifly	lo	À	FAL	Column Totals: (A) (B)
4				Prevalence Index = B/A =
5				
				Hydrophytic Vegetation Indicators:
6				- Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8.			_	
·	2/	= Total Co		3 - Prevalence Index is ≤3.0¹
•	Problematic Hydrophytic Vegetation ¹ (Explain)			
50% of total cover: <u>17</u> .	<u>5</u> 20% o	f total cove	er: <u>/</u>	
Herb Stratum (Plot size: 30以30)				1
(Flot size. 5 7.55)	=	٧	EW.	¹Indicators of hydric soil and wetland hydrology must
1. Stimploros tructura		<u> </u>	17/17	be present, unless disturbed or problematic.
2				Definitions of Four Vegetation Strata:
3				Tree Woody plants, excluding vines, 3 in. (7.6 cm) or
4	_			more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7,				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				
V				Herb – All herbaceous (non-woody) plants, regardless
				of size, and woody plants less than 3.28 ft tall.
9				
				18/
10				the state of the s
				Woody vine – All woody vines greater than 3.28 ft in height.
10				the state of the s
10				the state of the s
10. 11. 12.		= Total C	over	the state of the s
10			over	the state of the s
10		= Total C	over	the state of the s
10		= Total C	over	the state of the s
10		= Total C	over	the state of the s
10		= Total C	over	the state of the s
10		= Total C	over	the state of the s
10		= Total C	over	the state of the s
10		= Total C	over	the state of the s
10		= Total C	over	height.
10	5 20% c 5	= Total C	over er: \ \ FAL \ FAL	height.
10. 11. 12. 50% of total cover: 2. Woody Vine Stratum (Plot size: 30×30) 1. VIHS COMMENTIA 2. Smilax (Ofmerfolia 3. 4. 5.	5 5 20% c 5 5	= Total Co	over er: \ FAC FAC	height. Hydrophytic Vegetation
10	5 5 20% c 5 5	= Total C	over er: \ FAC FAC	height. Hydrophytic Vegetation
10. 11. 12. 50% of total cover: 2. Woody Vine Stratum (Plot size: 30x30) 1. Vitis rot ndifolia 2. Smilax (otandifolia 3. 4. 5. 50% of total cover:	5 20% c 5 5 10 10 20% c	= Total Co	over er: \ FAC FAC	height. Hydrophytic Vegetation
10. 11. 12. 50% of total cover: 2. Woody Vine Stratum (Plot size: 30×30) 1. VIH'S COTUNDIFOLIA 2. Smilax (Ofundifolia 3. 4. 5.	5 20% c 5 5 10 10 20% c	= Total Co	over er: \ FAC FAC	height. Hydrophytic Vegetation
10. 11. 12. 50% of total cover: 2. Woody Vine Stratum (Plot size: 30x30) 1. Vitis rot ndifolia 2. Smilax (otandifolia 3. 4. 5. 50% of total cover:	5 20% c 5 5 10 10 20% c	= Total Co	over er: \ FAC FAC	height. Hydrophytic Vegetation
10. 11. 12. 50% of total cover: 2. Woody Vine Stratum (Plot size: 30x30) 1. Vitis rot ndifolia 2. Smilax (otandifolia 3. 4. 5. 50% of total cover:	5 20% c 5 5 10 10 20% c	= Total Co	over er: \ FAC FAC	height. Hydrophytic Vegetation
10. 11. 12. 50% of total cover: 2. Woody Vine Stratum (Plot size: 30x30) 1. Vitis rot ndifolia 2. Snilax rotadifolia 3. 4. 5.	5 20% c 5 5 10 10 20% c	= Total Co	over er: \ FAC FAC	height. Hydrophytic Vegetation
10. 11. 12. 50% of total cover: 2. Woody Vine Stratum (Plot size: 30x30) 1. Vitis rot ndifolia 2. Snilax rotadifolia 3. 4. 5.	5 20% c 5 5 10 10 20% c	= Total Co	over er: \ FAC FAC	height. Hydrophytic Vegetation
10. 11. 12. 50% of total cover: 2. Woody Vine Stratum (Plot size: 30x30) 1. Vitis rot ndifolia 2. Snilax rotadifolia 3. 4. 5.	5 20% c 5 5 10 10 20% c	= Total Co	over er: \ FAC FAC	height. Hydrophytic Vegetation
10. 11. 12. 50% of total cover: 2. Woody Vine Stratum (Plot size: 30x30) 1. Vitis rot ndifolia 2. Snilax rotadifolia 3. 4. 5.	5 20% c 5 5 10 10 20% c	= Total Co	over er: \ FAC FAC	height. Hydrophytic Vegetation
10. 11. 12. 50% of total cover: 2. Woody Vine Stratum (Plot size: 30x30) 1. VIH'S roting Folia 2. Smilax (04m2,401ia 3. 4. 5.	5 20% c 5 5 10 10 20% c	= Total Co	over er: \ FAC FAC	height. Hydrophytic Vegetation

Profile Desc	ription: (Describe	to the depth	needed to docun	nent the	indicator	or confirm	the absence of i	ndicators.)			
Depth (inches)	Matrix Color (moist)	 _	Redox Color (moist)	x Feature %	Type ¹	Loc ²	Texture	Remarks			
U~1)	2,54 3/5	100	COIOI (IIIOISI)				Jo.	remand			
12-16	2,54 4/4	10.0					Cl, lo,				
16-20			7,54R 4/6	5	۷.		Cl.10,	<u> </u>			
10-60	254 1/2	11	7,3 / 16		· — ·	_M_	01101				
					·						
ļ			<u></u>								
		. —— –						' halam'			
		. <u> </u>									
	oncentration, D=Dep					ains.		=Pore Lining, M=Matri			
L	Indicators: (Applic	able to all Li					_	Problematic Hydric	Soils*:		
Histosol	(A1) pipedon (A2)		Polyvalue Be					k (A9) (LRR O) k (A10) (LRR S)			
	istic (A3)		Loamy Muck					Vertic (F18) (outside l	MLRA 150A,B)		
	en Sulfide (A4)		Loamy Gleye			•		Floodplain Soils (F19)			
	d Layers (A5)		Depleted Ma					s Bright Loamy Soils	F20)		
= -	Bodies (A6) (LRR F	-	Redox Dark Depleted Da	,			(MLRA				
	ucky Mineral (A7) (L resence (A8) (LRR l		Redox Depre					☐ Red Parent Material (TF2) ☐ Very Shallow Dark Surface (TF12)			
	uck (A9) (LRR P, T)	•	Marl (F10) (L		-,			plain in Remarks)	,		
☐ Deplete	d Below Dark Surfac	ce (A11)	Depleted Oc								
1 	ark Surface (A12)	M DA 450A)	Iron-Mangar				•	rs of hydrophytic vege			
The second secon	rairie Redox (A16) (Mucky Mineral (S1) (-	Umbric Surfa			•		d hydrology must be p disturbed or problema			
-	Gleyed Matrix (S4)	LICIT 0, 0,	Reduced Ve					alota bod of problem			
P000	Redox (S5)		Piedmont Fle	oodplain	Soils (F19)	(MLRA 1	49A)				
	d Matrix (S6)		Anomalous I	Bright Loa	amy Soils	(F20) (ML 1	RA 149A, 153C, 1	53D)			
	urface (S7) (LRR P, Layer (if observed										
Type:	Layer (II observed	j.									
1	nches):			20			Hvdric Soil Pr	esent? Yes	\sim		
Remarks:				<u> </u>			1,		 		
1											
			•								
1											
1											
								-			



Upland data point wwio014_u facing northeast.