Project/Site: Atlantic Coast Pipeline	City/County:	Cumberland County	_ Sampling Date: <u>4/16/2016</u>
Applicant/Owner:		State: <u>NC</u>	_ Sampling Point: wcmf007e_w
Investigator(s): SH, SA	Section, Towr	nship, Range: <u>No PLSS in this are</u>	a
Landform (hillslope, terrace, etc.): Ditch		oncave, convex, none): <u>concave</u>	
Subregion (LRR or MLRA): T Lat: 34.9	98586865	Long: <u>-78.74207002</u>	Datum: WGS 1984
Soil Map Unit Name: Candor sand, 1 to 8 percent slopes		NWI classifi	cation: None
Are climatic / hydrologic conditions on the site typical for this time o	f year? Yes	No (If no, explain in I	Remarks.)
Are Vegetation, Soil, or Hydrology significa	ntly disturbed?	Are "Normal Circumstances"	present? Yes No _
Are Vegetation, Soil, or Hydrology naturally	problematic?	(If needed, explain any answ	ers in Remarks.)
SUMMARY OF FINDINGS – Attach site map show	ing sampling	point locations, transect	s, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes 🖌 Yes 🖌 Yes 🖌	No No No	Is the Sampled Area within a Wetland?	Yes 🖌	No
Remarks:					

HYDROLOGY

Wetland Hydrology Indicate	ors:			Secondary Indicators (minimum of two required)
Primary Indicators (minimum	of one is required; of	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)	<u> </u>	Hydrogen Sulfide Odor (C1)		Moss Trim Lines (B16)
Water Marks (B1)		Oxidized Rhizospheres along Living	g 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	s (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 Ae	rial Imagery (B7)			 FAC-Neutral Test (D5)
Water-Stained Leaves (E	39)			Sphagnum moss (D8) (LRR T, U)
Field Observations:				
Surface Water Present?	Yes 🖌 No _	Depth (inches): 2	_	
Water Table Present?	Yes 🖌 No _	Depth (inches):	_	
		\mathbf{D} and the dimension 0		
Saturation Present? (includes capillary fringe)	Yes 💌 No _	Depth (inches):	Wetland H	lydrology Present? Yes <u>V</u> No
(includes capillary fringe)		ing well, aerial photos, previous inspe	-	· · · <u> </u>
(includes capillary fringe)			-	· · · <u> </u>
(includes capillary fringe)			-	· · · <u> </u>
(includes capillary fringe) Describe Recorded Data (stro			-	· · · <u> </u>
(includes capillary fringe) Describe Recorded Data (stro			-	· · · <u> </u>
(includes capillary fringe) Describe Recorded Data (stro			-	· · · <u> </u>
(includes capillary fringe) Describe Recorded Data (stro			-	· · · <u> </u>
(includes capillary fringe) Describe Recorded Data (stro			-	· · · <u> </u>
(includes capillary fringe) Describe Recorded Data (stro			-	· · · <u> </u>
(includes capillary fringe) Describe Recorded Data (stro			-	· · · <u> </u>
(includes capillary fringe) Describe Recorded Data (stro			-	· · · <u> </u>
(includes capillary fringe) Describe Recorded Data (stro			-	· · · <u> </u>
(includes capillary fringe) Describe Recorded Data (stro			-	· · · <u> </u>
(includes capillary fringe) Describe Recorded Data (stro			-	· · · <u> </u>

Sampling Point: wcmf007e_w

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 0)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 2 (A)
2				
3				Total Number of Dominant Species Across All Strata: ² (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC:100 (A/B)
6				Prevalence Index worksheet:
7				
8				
	0	= Total Cove	er	
50% of total cover:0	20% of	total cover:	0	FACW species $\begin{array}{c} 0 \\ 0 \\ \end{array}$ x 2 = $\begin{array}{c} 0 \\ 0 \\ \end{array}$
Sapling/Shrub Stratum (Plot size: 0)				FAC species X 3 =
				FACU species x 4 =
1				UPL species $0 \times 5 = 0$
2				Column Totals: (A) (B)
3				
4				Prevalence Index = B/A =1
5				Hydrophytic Vegetation Indicators:
6				
				1 - Rapid Test for Hydrophytic Vegetation
7		·		∠ 2 - Dominance Test is >50%
8		·		\checkmark 3 - Prevalence Index is ≤3.0 ¹
		= Total Cove	er	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:0	20% of	total cover:	0	
Herb Stratum (Plot size:0)				¹ Indicators of hydric soil and wetland hydrology must
_{1.} Typha angustifolia	30	Yes	OBL	be present, unless disturbed or problematic.
2 Typha latifolia	15	Yes	OBL	Definitions of Four Vegetation Strata:
3 Juncus effusus	10	No	OBL	Deminions of Four Vegetation officia.
···				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				Here All borbassaus (non woods) planta, regardlass
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		<u> </u>		height.
12				
		= Total Cove	er	
50% of total cover: 27.5	5 20% of	total cover:	11	
Woody Vine Stratum (Plot size:0)				
1				
2				
3		·		
4				
5				Hydrophytic
	0	= Total Cove	er	Vegetation
50% of total cover: 0				Present? Yes <u>V</u> No
Remarks: (If observed, list morphological adaptations belo	w).			

SOIL

	cription: (Describe t	o the depth				or confirm	the absenc	e of indicators.)
Depth	Matrix			ox Feature		. 2	-	D
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-18	10YR 3/2	100					S	
						·		
	·					·		
		<u> </u>				·		
¹ Type: C=C	Concentration, D=Depl	etion, RM=R	educed Matrix, M	IS=Masked	Sand G	ains.	² Location	n: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applica	able to all LF	RRs, unless othe	erwise not	ed.)		Indicator	s for Problematic Hydric Soils ³ :
Histoso	I (A1)		Polyvalue B	elow Surfa	ce (S8) (I	RRSTU	1 cm	Muck (A9) (LRR O)
	pipedon (A2)		Thin Dark S					Muck (A10) (LRR S)
	listic (A3)		Loamy Muc	•				uced Vertic (F18) (outside MLRA 150A,B)
	en Sulfide (A4)			-		(0)		mont Floodplain Soils (F19) (LRR P, S, T)
			Loamy Gley		FZ)			
	d Layers (A5)		Depleted M		-0)			nalous Bright Loamy Soils (F20)
	Bodies (A6) (LRR P,		Redox Dark	•	,			LRA 153B)
	ucky Mineral (A7) (LR		Depleted Date					Parent Material (TF2)
	resence (A8) (LRR U)		Redox Depr		8)			Shallow Dark Surface (TF12)
1 cm M	uck (A9) (LRR P, T)		Marl (F10) (Othe	r (Explain in Remarks)
Deplete	ed Below Dark Surface	e (A11)	Depleted O	chric (F11)	(MLRA 1	51)		
Thick D	ark Surface (A12)		Iron-Manga	nese Mass	es (F12)	(LRR O, P, [·]	T) ³ Ind	licators of hydrophytic vegetation and
Coast F	Prairie Redox (A16) (M	ILRA 150A)	Umbric Surf	ace (F13)	(LRR P, 1	「, U)	W	etland hydrology must be present,
Sandy N	Mucky Mineral (S1) (L	RR O, S)	Delta Ochrid	c (F17) (ML	RA 151)		ur	nless disturbed or problematic.
Sandy (Gleyed Matrix (S4)		Reduced Ve	ertic (F18) (MLRA 1	50A. 150B)		·
	Redox (S5)		Piedmont F	. , .	•		9A)	
	d Matrix (S6)		Anomalous	•	• •	•	,	C 153D)
	urface (S7) (LRR P, S	τ ιν		Dright Loai			A 143A, 133	0, 1000)
		, 1, 0)						
	Layer (if observed):							
Туре:								
Depth (in	nches):						Hydric So	il Present? Yes 🥙 No
Remarks:								
rtemanto.								



Photo 1 Wetland data point wcmf007e_w facing southwest



Photo 2 Wetland data point wcmf007e_w facing northeast

Project/Site: Atlantic Coast Pipeline			City/County:	Cumberland C	ounty	Sampling	g Date: 4/	16/2016	
Applicant/Owner: Dominion					State: NC	Sampling	g Point: <u>wo</u>	:mf007_	<u>_</u> u
Investigator(s): SH, SA			Section, Tov	vnship, Range:	No PLSS in this a	rea			
Landform (hillslope, terrace, etc.): Terr	ace		Local relief (concave, conve	ex, none): <u>convex</u>		Slope	(%): <u>1</u>	
Subregion (LRR or MLRA): T		Lat: 34.98	570163	Long	-78.74211773		Datur	n: WGS	3 1984
Soil Map Unit Name: Candor sand, 1 to	0 8 percent slope	s			NWI class	fication: No	ne		
Are climatic / hydrologic conditions on t	he site typical for								
Are Vegetation <u> </u>	Hydrology		y disturbed?	Are "Norr	nal Circumstances	" present?	Yes	No _	~
Are Vegetation, Soil, or	Hydrology	naturally pr	oblematic?	(If needed	d, explain any ans	vers in Rem	arks.)		
SUMMARY OF FINDINGS - A	ttach site ma	ap showing	g sampling	g point loca	tions, transec	ts, impor	tant fea	tures,	etc.
Hydrophytic Vegetation Present?	Yes	No 🖌	ls the	e Sampled Are	2				
Hydric Soil Present?	Yes 🖌	No		n a Wetland?		No	~		
Wetland Hydrology Present?	Yes	No 🖌	. With		100	110			
Remarks:									
Disturbed utility ROW									

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) Marl Deposits (B15) (LRR U) Saturation (A3) Hydrogen Sulfide Odor (C1) Water Marks (B1) Oxidized Rhizospheres along Living F Sediment Deposits (B2) Presence of Reduced Iron (C4) Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (Algal Mat or Crust (B4) Thin Muck Surface (C7) Iron Deposits (B5) Other (Explain in Remarks) Matter-Stained Leaves (B9)	Crayfish Burrows (C8)
Field Observations:	
Surface Water Present? Yes No 🖌 Depth (inches):	
Water Table Present? Yes No 🔽 Depth (inches):	
Saturation Present? Yes No <u>v</u> Depth (inches): (includes capillary fringe)	Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec No hydrology indicators	ions), if available:
Remarks:	

Sampling Point: wcmf007_u

0		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size:0)		Species?		Number of Dominant Species
1				That Are OBL, FACW, or FAC:0 (A)
2				Total Number of Dominant
3				Species Across All Strata: 2 (B)
4				Percent of Dominant Species
5	·			That Are OBL, FACW, or FAC: 0 (A/B)
6				Prevalence Index worksheet:
7				
8	·			Total % Cover of: Multiply by: OBL appaging 0 v 1 = 0
		= Total Cov		OBL species x i =
50% of total cover:0	20% of	total cover	0	FACVV species $x 2 = 0$
Sapling/Shrub Stratum (Plot size: 0)				FAC species $x_3 = $
1				FACU species $x 4 = $
2				UPL species $x_5 = 0$
3				Column Totals: (A) (B)
4				$P_{rouslopeo} \ln dox = P/A = -\frac{4}{3}$
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8	0			3 - Prevalence Index is ≤3.0 ¹
0		= Total Cov	/er . 0	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:0	20% of	total cover		
Herb Stratum (Plot size:)	20	Ma a	FACU	¹ Indicators of hydric soil and wetland hydrology must
1. Potentilla simplex	30	Yes	FACU	be present, unless disturbed or problematic.
2. Rumex acetosella	20	Yes	FACU	Definitions of Four Vegetation Strata:
3. Eupatorium capillifolium	10	No	FACU	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				Weedwaine All weedwaines greater than 2.29 ft in
11.				Woody vine – All woody vines greater than 3.28 ft in height.
12.				
	60	= Total Cov	/er	
50% of total cover:30		total cover		
Woody Vine Stratum (Plot size:)			·	
1				
2				
3				
4				
5	-			Hydrophytic
0		= Total Cov		Vegetation Present? Yes No Ves
50% of total cover:0	20% of	f total cover	:	
Remarks: (If observed, list morphological adaptations belo	ow).			

Profile Desc	ription: (Describe t	o the dep	th needed to docum	nent the i	indicator	or confirm	the absence	of indicators.)
Depth	Matrix		Redox	Feature	s			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-8	10YR 3/2	95	10YR 5/6	5	С	М	LS	
8-16	10YR 5/2	100					S	
					·			
					·			
					·			
1							2	
	ncentration, D=Deplo ndicators: (Applica					ains.		PL=Pore Lining, M=Matrix.
•					•			•
Histosol	ipedon (A2)		Polyvalue Bel					Muck (A9) (LRR O) Muck (A10) (LRR S)
Black His			Loamy Mucky	• •				zed Vertic (F18) (outside MLRA 150A,B)
	n Sulfide (A4)		Loamy Gleye			0)		iont Floodplain Soils (F19) (LRR P, S, T)
	Layers (A5)		Depleted Mat)			alous Bright Loamy Soils (F20)
	Bodies (A6) (LRR P,	T. U)	Redox Dark S	. ,	-6)			RA 153B)
-	cky Mineral (A7) (LR			•	,		•	arent Material (TF2)
	esence (A8) (LRR U)		Redox Depre					Shallow Dark Surface (TF12)
	ck (A9) (LRR P, T)		 Marl (F10) (L	•	,			(Explain in Remarks)
Depleted	Below Dark Surface	(A11)	Depleted Och	ric (F11)	(MLRA 1	51)		
Thick Da	rk Surface (A12)		Iron-Mangane	ese Mass	es (F12) (LRR O, P, T) ³ Indic	cators of hydrophytic vegetation and
	airie Redox (A16) (M) Umbric Surfa	ce (F13) ((LRR P, T	, U)	wet	tland hydrology must be present,
Sandy M	ucky Mineral (S1) (L	RR O, S)	Delta Ochric	(F17) (ML	RA 151)		unl	ess disturbed or problematic.
	leyed Matrix (S4)		Reduced Ver	. , .	•			
🖌 Sandy R	. ,		Piedmont Flo	•	• •	•	•	
	Matrix (S6)		Anomalous B	right Loai	my Soils (I	=20) (MLRA	149A, 153C	c, 153D)
	face (S7) (LRR P, S,	T, U)						
	ayer (if observed):							
Туре:								
Depth (inc	:hes):						Hydric Soil	Present? Yes <u>No</u>
Remarks:								



Photo 1 Upland data pont wcmf007_u facing north



Photo 2 Upland data pont wcmf007_u facing south

Project/Site: Atlantic Coast Pipeline		City/County: Cumberland County Sampling Date: 4/15				4/15/201	6			
Applicant/Owner: Dominion		-	-			State: NC				
Investigator(s): SH, SA		Section,	Township	, Rang	ge: N	o PLSS in this are	a			
		Local rel	ief (conca	ve, cor	nvex,	none): <u>concave</u>		Slop	be (%): <u>0</u>	
Subregion (LRR or MLRA):	Lat: <u>34.971</u>	16268		Lo	ng: <u>-</u>	78.74008982		Da	tum: WG	iS 1984
Soil Map Unit Name: Torhunta and Lynn Haven soils						NWI classifie	cation: Pl	⁻ O1/3A,	PFO1/4E	۶,
Are climatic / hydrologic conditions on the site typical for the	is time of ye	ear? Yes	1	No_	/	(If no, explain in F	Remarks.)			
Are Vegetation, Soil, or Hydrology	significantly	/ disturbe	d? .	Are "N	orma	I Circumstances"	present?	Yes	No	~
Are Vegetation, Soil, or Hydrology						explain any answe				
SUMMARY OF FINDINGS – Attach site map									aturas	oto
SUMMART OF FINDINGS – Attach site map	snowing	j samp	ing poi		calle	ons, transects	s, impo		ealures	, etc.
Hydrophytic Vegetation Present? Yes 🖌 N			s the Sam	pled A	rea					
Hydric Soil Present? Yes 🖌 N	No		ithin a W	-		Yes 🔽	ν No			
Wetland Hydrology Present? Yes <u>Yes</u> N	No			otiaira					_	
HYDROLOGY								<u> </u>		
Wetland Hydrology Indicators:						Secondary Indica			two requ	ired)
Primary Indicators (minimum of one is required; check all						Surface Soil				201
Surface Water (A1)Aquatic			N			Sparsely Ve	-		Surface (B8)
✓ High Water Table (A2) Marl De						Drainage Pa				
	en Sulfide (<u></u>	Moss Trim L	•	,		
	ed Rhizosph			KOOIS ((3)	Dry-Season				
	ice of Reduct Iron Reduct	•	,	(C6)		Crayfish Bur	•	,	and (C	0)
	uck Surface			(00)		✓ Geomorphic			lagery (C	5)
	Explain in F					Shallow Aqu				
Inundation Visible on Aerial Imagery (B7)						✓ FAC-Neutra	• • •			
Water-Stained Leaves (B9)						Sphagnum r		,	, U)	
Field Observations:							· · ·			

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Surface Water Present? Water Table Present?

Saturation Present? (includes capillary fringe)

Remarks:

Wetland Hydrology Present? Yes <u>V</u> No

Sampling Point: wcmf006f_w

	0		Dominant		Dominance Test worksheet:	
Tree Stratum (Plot size:	<u> </u>		Species?		Number of Dominant Species	
1. Acer rubrum		30 10	Yes	FAC	That Are OBL, FACW, or FAC:6 (,	A)
2. Pinus taeda		10	Yes	FAC	Total Number of Dominant	
3						B)
4					Demonst of Dominant Chaption	
5					Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A	A/B)
6						(12)
7					Prevalence Index worksheet:	
8.					Total % Cover of: Multiply by:	
0		40	= Total Cov		OBL species x 1 =0	
-	0% of total cover: 20			Q	FACW species $x = 270$	
		20% 01	total cover	·	FAC species $50 \times 3 = 150$	
Sapling/Shrub Stratum (Plot size:)	75	Voo		FACU species $0 x 4 = 0$	
1. Lyonia lucida		75	Yes	FACW	$\frac{1}{\text{UPL species}} = \frac{0}{x 5} = \frac{0}{x 5}$	
2. Persea borbonia		20	No	FACW	185 /20	
3. <u>Clethra alnifolia</u>		10	No	FACW	Column Totals: (A)	(B)
4					Prevalence Index = $B/A = 2.27$	
5					Hydrophytic Vegetation Indicators:	
6						
7					1 - Rapid Test for Hydrophytic Vegetation	
					\checkmark 2 - Dominance Test is >50%	
8		105			\checkmark 3 - Prevalence Index is ≤3.0 ¹	
	50 F	100	= Total Cov	ver 21	Problematic Hydrophytic Vegetation ¹ (Explain)	
	0% of total cover: 52.5	20% of	total cover	21		
	0)				¹ Indicators of hydric soil and wetland hydrology mu	st
1. <u>Lyonia lucida</u>		10	Yes	FACW	be present, unless disturbed or problematic.	
2					Definitions of Four Vegetation Strata:	
3.						
					Tree – Woody plants, excluding vines, 3 in. (7.6 cm	
4					more in diameter at breast height (DBH), regardles height.	SOI
5						
6					Sapling/Shrub – Woody plants, excluding vines, le	ess
7					than 3 in. DBH and greater than 3.28 ft (1 m) tall.	
8					Herb – All herbaceous (non-woody) plants, regardl	ess
9					of size, and woody plants less than 3.28 ft tall.	
10					Woody vine All woody vince greater than 2.29 ft	in
11.					Woody vine – All woody vines greater than 3.28 ft height.	
12.						
12.		10	= Total Cov			
_	5 / of total approx					
		20% of	total cover			
Woody Vine Stratum (Plot size:)	00	Maa			
1. <u>Smilax laurifolia</u>		20	Yes	FACW		
2. Bignonia capreolata		10	Yes	FAC		
3						
4						
5.					The decord of a	
		30	= Total Cov		Hydrophytic Vegetation	
_	0% of total cover: <u>15</u>			•	Present? Yes <u>No</u>	
			total cover			
Remarks: (If observed, list morph	ological adaptations below	N).				

<u>(inches)</u> C	olor (moist)	%	Color (moist)	<u>x Features</u> %	Type ¹	Loc ²	Texture		Remarks	
0-12							<u> </u>	Organic se	oil material- Pe	eat
12-24 2.5Y	2.5/1	100		·			S	Mucky Mir	neral	
				·						
				·						
¹ Type: C=Concen	tration D-Donk		oducod Matrix, MS	-Maskod	Sand Gr	line	² Location:	DI - Doro I	ining, M=Matr	ix
Hydric Soil Indica						1115.			matic Hydric	
Histosol (A1)			Polyvalue Be		•	RR S. T. U		/luck (A9) (L	-	
Histic Epipedo	on (A2)		Thin Dark Su					/uck (A10)		
Black Histic (A			Loamy Muck							MLRA 150A,B
Hydrogen Sulf			Loamy Gleye							(LRR P, S, T)
Stratified Laye	ers (A5)		Depleted Ma				Anoma	alous Bright	Loamy Soils ((F20)
Organic Bodie	es (A6) (LRR P,	T, U)	Redox Dark	Surface (F6	5)		(MLI	RA 153B)		
5 cm Mucky N	lineral (A7) (LR	R P, T, U)	Depleted Date	k Surface	(F7)		Red P	arent Mater	ial (TF2)	
Muck Presence	e (A8) (LRR U)		Redox Depre	ssions (F8)		Very S	Shallow Dark	Surface (TF1)	12)
1 cm Muck (As	9) (LRR P, T)		Marl (F10) (L	RR U)			Other	(Explain in F	Remarks)	
Depleted Belo	w Dark Surface	e (A11)	Depleted Ocl	nric (F11) (MLRA 15	51)				
Thick Dark Su	· · /		Iron-Mangan					•	drophytic vege	
Coast Prairie I	Redox (A16) (M	LRA 150A)	Umbric Surfa	ce (F13) (l	RR P, T	, U)	wet	land hydrol	ogy must be p	resent,
	Mineral (S1) (L	RR O, S)	Delta Ochric				unl	ess disturbe	ed or problema	atic.
Sandy Gleyed			Reduced Ver							
Sandy Redox			Piedmont Flo							
Stripped Matri			Anomalous E	right Loarr	ny Soils (F	=20) (MLR	A 149A, 153C	, 153D)		
	(S7) (LRR P, S,	, T, U)								
Restrictive Layer	(if observed):									
Туре:			_					_		
Depth (inches):			<u> </u>				Hydric Soil	Present?	Yes	No
Remarks:										



Photo 1 Wetland data point wcmf006f_w facing east



Photo 2 Wetland data point wcmf006f_w facing south

Project/Site: Atlantic Coast Pipeline	City/County: Cumberland County Sampling Date: 4/15/2016
Applicant/Owner: Dominion	State: NC Sampling Point: wcmf006e_w
	Section, Township, Range: No PLSS in this area
	Local relief (concave, convex, none): <u>concave</u> Slope (%): <u>0</u>
	10869 Long: -78.74031788 Datum: WGS 1984
Soil Map Unit Name: Torhunta and Lynn Haven soils	NWI classification: PFO1/3A, PFO1/4B
Are climatic / hydrologic conditions on the site typical for this time of ye	
	v disturbed? Are "Normal Circumstances" present? Yes No
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	
Hydric Soil Present? Yes <u>✓</u> No	Is the Sampled Area
Wetland Hydrology Present? Yes Ves No	within a Wetland? Yes <u>✓</u> No
Remarks:	
Disturbed utility ROW	
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) Marl Deposits (B1	5) (LRR U) Drainage Patterns (B10)
✓ Saturation (A3) Hydrogen Sulfide (
	neres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Reduc	
	ction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface	· · · · · · ·
Iron Deposits (B5) 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)	. <u>.</u> .
Water Table Present? Yes <u>V</u> No Depth (incless	10
Saturation Present? Yes <u>V</u> No Depth (inches	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photo	os, previous inspections), if available:
Remarks:	

Sampling Point: wcmf006e_w

0		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 0)	-	Species?		Number of Dominant Species
1				That Are OBL, FACW, or FAC: 2 (A)
2				Total Number of Dominant
3				Species Across All Strata: 2 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100 (A/B)
6				Prevalence Index worksheet:
7	. <u> </u>			Total % Cover of: Multiply by:
8				
	0	= Total Cov		OBL species X 1
50% of total cover:0	20% of	f total cover:	0	FACW species $x^2 = \frac{190}{190}$
Sapling/Shrub Stratum (Plot size: 0)				FAC species $x^3 = $
1				FACU species $x 4 = $
2				UPL species $0 \times 5 = 0$
3				Column Totals: (A) (B)
4				Prevalence Index = $B/A = 2.63$
5				
6				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
7				∠ 2 - Dominance Test is >50%
8	0			\checkmark 3 - Prevalence Index is ≤3.0 ¹
0		= Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:0	20% of	total cover:		
Herb Stratum (Plot size: 0)	00		540	¹ Indicators of hydric soil and wetland hydrology must
1. Andropogon virginicus	60	Yes	FAC	be present, unless disturbed or problematic.
2. <u>Saccharum brevibarbe</u>	30	Yes	FACW	Definitions of Four Vegetation Strata:
3. Juncus coriaceus	5	No	FACW	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.	<u> </u>			noight.
12.	95	= Total Cov		
50% of total cover: 47.				
	20 % 0			
Woody Vine Stratum (Plot size: 0)				
1				
2				
3				
4				
5				Hydrophytic
		= Total Cov		Vegetation Present? Yes <u>Ves</u> No
50% of total cover:0	20% of	f total cover:	0	Present? Yes Vo No
Remarks: (If observed, list morphological adaptations belo	ow).			

SOIL

Profile Desc	cription: (Describe t	o the dept	h needed to docur	nent the ir	ndicator	or confirm	the absence	of indicators.)		
Depth	Matrix			x Features						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		marks	
0-12	2.5Y 2.5/1	100					SL	Mucky mineral		
12-18	10YR 2/1	100					COSL			
				·						
				·						
	oncentration, D=Depl					ains.		PL=Pore Lining,		
Hydric Soil	Indicators: (Applica	ble to all L	RRs, unless other	rwise note	ed.)		Indicators	for Problematic	Hydric So	ils³:
Histosol	(A1)		Polyvalue Be	low Surfac	e (S8) (L	RR S, T, U)	1 cm I	Muck (A9) (LRR O)	
Histic E	pipedon (A2)		Thin Dark Su	rface (S9)	(LRR S,	T, U)	2 cm I	Muck (A10) (LRR \$	S)	
	istic (A3)		Loamy Muck	y Mineral (F1) (LRR	O)		ed Vertic (F18) (o		
	en Sulfide (A4)		Loamy Gleye		-2)			ont Floodplain So		
	d Layers (A5)		Depleted Ma					alous Bright Loam	y Soils (F2	0)
	Bodies (A6) (LRR P,		Redox Dark		,		•	RA 153B)		
	ucky Mineral (A7) (LR		Depleted Da		• •			arent Material (TF	,	
	resence (A8) (LRR U)		Redox Depre		5)			Shallow Dark Surfa		
	uck (A9) (LRR P, T)	(111)	Marl (F10) (L	,			Other	(Explain in Remar	KS)	
-	d Below Dark Surface ark Surface (A12)	(ATT)	Depleted Ocl Iron-Mangan	. , .) ³ Indi	cators of hydrophy	tic vegetati	on and
	rairie Redox (A16) (M		. <u> </u>		• • •			tland hydrology mi	-	
	/ucky Mineral (S1) (L) Umbric Surfa Delta Ochric	· / ·		, 0)		ess disturbed or p	•	
-	Gleyed Matrix (S4)	nn 0, 0)	Reduced Ver			0A. 150B)	un			
-	Redox (S5)		Piedmont Flo				A)			
	Matrix (S6)		Anomalous E	•	• •	•	•	. 153D)		
	rface (S7) (LRR P, S,	, T, U)		0	J (- / (- ,	,,		
	Layer (if observed):									
Type:										
Depth (in	ches).						Hydric Soil	Present? Yes	<u> </u>	No
Remarks:							Ilyano con			
Remarks.										



Photo 1 Wetland data point wcmf006e_w facing east



Photo 2 Wetland data point wcmf006e_w facing northwest

Project/Site: Atlantic Coast Pipeline		City/County: C	umberland Co	unty	Sampling	Date: 4/15/20)16
Applicant/Owner: Dominion				State: NC	Sampling	Point: wcmf00)6_u
Investigator(s): SH, SA		Section, Town	ship, Range: <u>I</u>	No PLSS in this a	rea		
Landform (hillslope, terrace, etc.): Terrace						Slope (%):	2
Subregion (LRR or MLRA): T La	at: <u>34.970</u>	96751	Long:	-78.74032425		Datum: <u>W</u>	/GS 1984
				NWI classi			
Are climatic / hydrologic conditions on the site typical for this Are Vegetation, Soil, or Hydrology sig Are Vegetation, Soil, or Hydrology na SUMMARY OF FINDINGS – Attach site map s	gnificantly aturally pro	v disturbed? oblematic?	Are "Norm (If needed,	al Circumstances explain any ansv	vers in Rema	arks.)	
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No Remarks: Utility ROW	▶		ampled Area a Wetland?		No _	<u> </u>	

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 R	oots (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)
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 (inches):	
Water Table Present? Yes No 🖌 Depth (inches):	
Saturation Present? Yes <u>V</u> No Depth (inches): <u>12</u> (includes capillary fringe)	Wetland Hydrology Present? Yes 🖌 No No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	ions), if available:
Remarks:	

Sampling Point: <u>wcmf006_u</u>

0	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:0)	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
1	·			That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant Species Across All Strata: 2 (B)
3				Species Across All Strata: 2 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 50 (A/B)
6	·			Prevalence Index worksheet:
7	·			Total % Cover of: Multiply by:
8				$\begin{array}{c} \hline \hline \\ OBL species \\ \hline \\ \end{array} \\ \hline \\ \hline \\ \end{array} \\ \begin{array}{c} 0 \\ x 1 = \\ \hline \\ \end{array} \\ \hline \\ \hline \\ \end{array} \\ \begin{array}{c} \hline \\ x 1 = \\ \hline \\ \end{array} \\ \begin{array}{c} 0 \\ \end{array} \\ \hline \\ \end{array}$
		= Total Cov		0
50% of total cover:0	20% of	total cover:	0	FACW species 30 $x_2 = 0$
Sapling/Shrub Stratum (Plot size: 0)				FAC species 30 x 3 = 90
1				FACU species $x 4 = 40$
2				UPL species $25 \times 5 = 125$
3				Column Totals: (A) (B)
4				Prevalence Index = B/A = 3.92
5				
6				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8	0			3 - Prevalence Index is ≤3.0 ¹
0		= Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of	total cover:		
Herb Stratum (Plot size:)				¹ Indicators of hydric soil and wetland hydrology must
1. Rubus allegheniensis	25	Yes	UPL	be present, unless disturbed or problematic.
2. Andropogon virginicus	20	Yes	FAC	Definitions of Four Vegetation Strata:
3. Rumex acetosella	10	No	FACU	Tree Weedy plants, excluding vince 3 in (7.6 cm) or
_{4.} Juncus tenuis	10	No	FAC	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
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				
10				Woody vine – All woody vines greater than 3.28 ft in
11	·			height.
12				
20		= Total Cov		
50% of total cover:32.	20% of	total cover:	13	
Woody Vine Stratum (Plot size: 0)				
1				
2				
3				
4				
5				Hydrophytic
	-	= Total Cov	er	Vegetation
50% of total cover:0				Present? Yes No V
Remarks: (If observed, list morphological adaptations belo	ow).			

Depth	Matrix		Redo	ox Features	\$				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Rema	arks
0-3	10YR 3/1	100					S		
3-12	10YR 5/2	100		_			COS		
12-18	10YR 6/1	100					COS		_
Type: C=C	oncentration, D=Depl	etion, RM=Re	educed Matrix, M	S=Masked	Sand Gra	ains.	² Location: PL	=Pore Lining, M=	Matrix.
Hydric Soil	Indicators: (Applica	able to all LR	Rs, unless othe	rwise note	ed.)		Indicators for	Problematic Hy	dric Soils ³ :
Histoso	l (A1)		Polyvalue Be	elow Surfac	ce (S8) (L	RR S, T, U) 1 cm Mucl	(A9) (LRR O)	
Histic E	pipedon (A2)		Thin Dark Su					(A10) (LRR S)	
	istic (A3)		Loamy Muck						side MLRA 150A,B
	en Sulfide (A4)		Loamy Gleye	-		,			(F19) (LRR P, S, T)
	d Layers (A5)		Depleted Ma		,			s Bright Loamy S	
	Bodies (A6) (LRR P,	T, U)	Redox Dark		6)		(MLRA [·]		()
-	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) (L				-	lain in Remarks	
	d Below Dark Surface	e (A11)	Depleted Oc	•	(MLRA 1	51)			,
	ark Surface (A12)	()	Iron-Mangan				T) ³ Indicator	s of hydrophytic	vegetation and
	Prairie Redox (A16) (N	ILRA 150A)	-					I hydrology must	-
	Mucky Mineral (S1) (L		Delta Ochric			, •,		disturbed or prot	
-	Gleyed Matrix (S4)		Reduced Ve			0A 150B)	anooo		Jonnauo.
-	Redox (S5)		Piedmont Flor				201		
-	d Matrix (S6)						A 149A, 153C, 15	וחג	
	()	т ну		Singht Loai			- 143A, 133C, 13	50)	
	Inface (S7) (LRR P, S Layer (if observed):	-							
Type:									
Depth (in	ches):						Hydric Soil Pre	sent? Yes	No 🖌
Remarks:									
tomanto.									



Photo 1 Upland data point wcmf006_ u facing northwest



Photo 2 Upland data point wcmf006_ u facing southeast

Project/Site: Atlantic Coast Pipeline		City/Cou	City/County: Cumberland Co			unty	_ Sampling Date: 4/15/2016			6
Applicant/Owner: Dominion		-	-			State: NC				
Investigator(s): SH, SA		Section,	Township	, Rang	ge: N	o PLSS in this are	a			
		Local rel	ief (conca	ve, cor	nvex,	none): <u>concave</u>		Slop	be (%): <u>0</u>	
Subregion (LRR or MLRA):	Lat: <u>34.971</u>	16268		Lo	ng: <u>-</u>	78.74008982		Da	tum: WG	iS 1984
Soil Map Unit Name: Torhunta and Lynn Haven soils						NWI classifie	cation: Pl	⁻ O1/3A,	PFO1/4E	۶,
Are climatic / hydrologic conditions on the site typical for the	is time of ye	ear? Yes	1	No_	/	(If no, explain in F	Remarks.)			
Are Vegetation, Soil, or Hydrology	significantly	/ disturbe	d? .	Are "N	orma	I Circumstances"	present?	Yes	No	~
Are Vegetation, Soil, or Hydrology						explain any answe				
SUMMARY OF FINDINGS – Attach site map									aturas	oto
SUMMART OF FINDINGS – Attach site map	snowing	j samp	ing poi		calle	ons, transects	s, impo		ealures	, etc.
Hydrophytic Vegetation Present? Yes 🖌 N			s the Sam	pled A	rea					
Hydric Soil Present? Yes 🖌 N	No		ithin a W	-		Yes 🔽	ν No			
Wetland Hydrology Present? Yes <u>Yes</u> N	No			otiaira					_	
HYDROLOGY								<u> </u>		
Wetland Hydrology Indicators:						Secondary Indica			two requ	ired)
Primary Indicators (minimum of one is required; check all						Surface Soil				201
Surface Water (A1)Aquatic			N			Sparsely Ve	-		Surface (B8)
✓ High Water Table (A2) Marl De						Drainage Pa				
	en Sulfide (<u></u>	Moss Trim L	•	,		
	Oxidized Rhizospheres along Living Roots (C:			(3)	Dry-Season					
	Presence of Reduced In Recent Iron Reduction in			(C6)		Crayfish Bur	•	,	anony (C	0)
	uck Surface			(00)		✓ Geomorphic			lagery (C	5)
	Explain in F					Shallow Aqu				
Inundation Visible on Aerial Imagery (B7)						✓ FAC-Neutra	• • •			
Water-Stained Leaves (B9)						Sphagnum r		,	, U)	
Field Observations:							· · ·			

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Surface Water Present? Water Table Present?

Saturation Present? (includes capillary fringe)

Remarks:

Wetland Hydrology Present? Yes <u>V</u> No

Sampling Point: wcmf006f_w

	0		Dominant		Dominance Test worksheet:	
Tree Stratum (Plot size:	<u> </u>		Species?		Number of Dominant Species	
1. Acer rubrum		30 10	Yes	FAC	That Are OBL, FACW, or FAC:6 (,	A)
2. Pinus taeda		10	Yes	FAC	Total Number of Dominant	
3						B)
4					Demonst of Dominant Chaption	
5					Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A	A/B)
6						(12)
7					Prevalence Index worksheet:	
8.					Total % Cover of: Multiply by:	
0		40	= Total Cov		OBL species x 1 =0	
-	0% of total cover: 20			Q	FACW species $x = 270$	
		20% 01	total cover	·	FAC species $50 \times 3 = 150$	
Sapling/Shrub Stratum (Plot size:)	75	Voo		FACU species $0 x 4 = 0$	
1. Lyonia lucida		75	Yes	FACW	$\frac{1}{\text{UPL species}} = \frac{0}{x 5} = \frac{0}{x 5}$	
2. Persea borbonia		20	No	FACW	185 /20	
3. <u>Clethra alnifolia</u>		10	No	FACW	Column Totals: (A)	(B)
4					Prevalence Index = $B/A = 2.27$	
5					Hydrophytic Vegetation Indicators:	
6						
7					1 - Rapid Test for Hydrophytic Vegetation	
					\checkmark 2 - Dominance Test is >50%	
8		105			\checkmark 3 - Prevalence Index is ≤3.0 ¹	
	50 F	100	= Total Cov	ver 21	Problematic Hydrophytic Vegetation ¹ (Explain)	
	0% of total cover: 52.5	20% of	total cover	21		
	0)				¹ Indicators of hydric soil and wetland hydrology mu	st
1. <u>Lyonia lucida</u>		10	Yes	FACW	be present, unless disturbed or problematic.	
2					Definitions of Four Vegetation Strata:	
3.						
					Tree – Woody plants, excluding vines, 3 in. (7.6 cm	
4					more in diameter at breast height (DBH), regardles height.	SOI
5						
6					Sapling/Shrub – Woody plants, excluding vines, le	ess
7					than 3 in. DBH and greater than 3.28 ft (1 m) tall.	
8					Herb – All herbaceous (non-woody) plants, regardl	ess
9					of size, and woody plants less than 3.28 ft tall.	
10					Woody vine All woody vince greater than 2.29 ft	in
11.					Woody vine – All woody vines greater than 3.28 ft height.	
12.						
12.		10	= Total Cov			
_	5 / of total approx					
		20% of	total cover			
Woody Vine Stratum (Plot size:)	00	Maa			
1. <u>Smilax laurifolia</u>		20	Yes	FACW		
2. Bignonia capreolata		10	Yes	FAC		
3						
4						
5.					The decord of a	
		30	= Total Cov		Hydrophytic Vegetation	
_	0% of total cover: <u>15</u>			•	Present? Yes <u>No</u>	
			total cover			
Remarks: (If observed, list morph	ological adaptations below	N).				

<u>(inches)</u> C	olor (moist)	%	Color (moist)	<u>x Features</u> %	Type ¹	Loc ²	Texture		Remarks	
0-12							<u> </u>	Organic se	oil material- Pe	eat
12-24 2.5Y	2.5/1	100		·			S	Mucky Mir	neral	
				·						
				·						
¹ Type: C=Concen	tration D-Donk		oducod Matrix, MS	-Maskod	Sand Gr	line	² Location:	DI - Doro I	ining, M=Matr	ix
Hydric Soil Indica						1115.			matic Hydric	
Histosol (A1)			Polyvalue Be		•	RR S. T. U		/luck (A9) (L	-	
Histic Epipedo	on (A2)		Thin Dark Su					/uck (A10)		
Black Histic (A			Loamy Muck							MLRA 150A,B
Hydrogen Sulf			Loamy Gleye							(LRR P, S, T)
Stratified Laye	ers (A5)		Depleted Ma				Anoma	alous Bright	Loamy Soils ((F20)
Organic Bodie	es (A6) (LRR P,	T, U)	Redox Dark	Surface (F6	5)		(MLI	RA 153B)		
5 cm Mucky N	lineral (A7) (LR	R P, T, U)	Depleted Date	k Surface	(F7)		Red P	arent Mater	ial (TF2)	
Muck Presence	e (A8) (LRR U)		Redox Depre	ssions (F8)		Very S	Shallow Dark	Surface (TF1)	12)
1 cm Muck (As	9) (LRR P, T)		Marl (F10) (L	RR U)			Other	(Explain in F	Remarks)	
Depleted Belo	w Dark Surface	e (A11)	Depleted Ocl	nric (F11) (MLRA 15	51)				
Thick Dark Su	· · /		Iron-Mangan					•	drophytic vege	
Coast Prairie I	Redox (A16) (M	LRA 150A)	Umbric Surfa	ce (F13) (l	RR P, T	, U)	wet	land hydrol	ogy must be p	resent,
	Mineral (S1) (L	RR O, S)	Delta Ochric				unl	ess disturbe	ed or problema	atic.
Sandy Gleyed			Reduced Ver							
Sandy Redox			Piedmont Flo							
Stripped Matri			Anomalous E	right Loarr	ny Soils (F	=20) (MLR	A 149A, 153C	, 153D)		
	(S7) (LRR P, S,	, T, U)								
Restrictive Layer	(if observed):									
Туре:			_					_		
Depth (inches):			<u> </u>				Hydric Soil	Present?	Yes	No
Remarks:										



Photo 1 Wetland data point wcmf006f_w facing east



Photo 2 Wetland data point wcmf006f_w facing south

Project/Site: Atlantic Coast Pipeline	City/County: Cumberland County Sampling Date: 4/15/2016
Applicant/Owner: Dominion	State: NC Sampling Point: wcmf006e_w
	Section, Township, Range: No PLSS in this area
	Local relief (concave, convex, none): <u>concave</u> Slope (%): <u>0</u>
	10869 Long: -78.74031788 Datum: WGS 1984
Soil Map Unit Name: Torhunta and Lynn Haven soils	NWI classification: PFO1/3A, PFO1/4B
Are climatic / hydrologic conditions on the site typical for this time of ye	
	v disturbed? Are "Normal Circumstances" present? Yes No
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	
Hydric Soil Present? Yes <u>✓</u> No	Is the Sampled Area
Wetland Hydrology Present? Yes Ves No	within a Wetland? Yes <u>✓</u> No
Remarks:	
Disturbed utility ROW	
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) Marl Deposits (B1	5) (LRR U) Drainage Patterns (B10)
✓ Saturation (A3) Hydrogen Sulfide (
	neres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Reduc	
	ction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface	· · · · · · ·
Iron Deposits (B5) 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)	. <u>.</u> .
Water Table Present? Yes <u>V</u> No Depth (incless	10
Saturation Present? Yes <u>V</u> No Depth (inches	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photo	os, previous inspections), if available:
Remarks:	

Sampling Point: wcmf006e_w

0		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 0)	-	Species?		Number of Dominant Species
1				That Are OBL, FACW, or FAC: 2 (A)
2				Total Number of Dominant
3				Species Across All Strata: 2 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100 (A/B)
6				Prevalence Index worksheet:
7	. <u> </u>			Total % Cover of: Multiply by:
8				
	0	= Total Cov		OBL species X 1
50% of total cover:0	20% of	f total cover:	0	FACW species $x^2 = \frac{190}{190}$
Sapling/Shrub Stratum (Plot size: 0)				FAC species $x^3 = $
1				FACU species $x 4 = $
2				UPL species $0 \times 5 = 0$
3				Column Totals: (A) (B)
4				Prevalence Index = $B/A = 2.63$
5				
6				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
7				∠ 2 - Dominance Test is >50%
8	0			\checkmark 3 - Prevalence Index is ≤3.0 ¹
0		= Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:0	20% of	total cover:		
Herb Stratum (Plot size: 0)	00		540	¹ Indicators of hydric soil and wetland hydrology must
1. Andropogon virginicus	60	Yes	FAC	be present, unless disturbed or problematic.
2. <u>Saccharum brevibarbe</u>	30	Yes	FACW	Definitions of Four Vegetation Strata:
3. Juncus coriaceus	5	No	FACW	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.	<u> </u>			noight.
12.	95	= Total Cov		
50% of total cover: 47.				
	20 % 0			
Woody Vine Stratum (Plot size: 0)				
1				
2				
3				
4				
5				Hydrophytic
		= Total Cov		Vegetation Present? Yes <u>Ves</u> No
50% of total cover:0	20% of	f total cover:	0	Present? Yes Vo No
Remarks: (If observed, list morphological adaptations belo	ow).			

SOIL

Profile Desc	cription: (Describe t	o the depth	needed to docun	nent the in	dicator o	r confirm t	he absence	of indicators.)	
Depth	Matrix			x Features					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-12	2.5Y 2.5/1	100					SL	Mucky mineral	
12-18	10YR 2/1	100					COSL		
					·		<u> </u>		
·									
					· ·		-		
	oncentration, D=Deple					ins.		PL=Pore Lining, M=Matrix.	
-	Indicators: (Applica	ble to all L						for Problematic Hydric Soils ³ :	
Histosol			Polyvalue Be				1 cm I	Muck (A9) (LRR O)	
	pipedon (A2)		Thin Dark Su	. , .				Muck (A10) (LRR S)	
	istic (A3)		Loamy Muck			0)		ed Vertic (F18) (outside MLRA 1	
	en Sulfide (A4)		Loamy Gleye		2)			ont Floodplain Soils (F19) (LRR P	, S, T)
	d Layers (A5)	- 10	Depleted Mat		`			alous Bright Loamy Soils (F20)	
	Bodies (A6) (LRR P,		Redox Dark S		,		•	RA 153B)	
	ucky Mineral (A7) (LR resence (A8) (LRR U)		Depleted Dar Redox Depre		,			arent Material (TF2) Shallow Dark Surface (TF12)	
	uck (A9) (LRR P, T)		Marl (F10) (L	, ,				(Explain in Remarks)	
	d Below Dark Surface	(A11)	Depleted Oct			1)			
-	ark Surface (A12)	(,,,,,)	Iron-Mangan			•) ³ India	cators of hydrophytic vegetation an	nd
	rairie Redox (A16) (M	LRA 150A)			· / ·			tland hydrology must be present,	
	/lucky Mineral (S1) (L		Delta Ochric	· / ·		-,		ess disturbed or problematic.	
-	Gleyed Matrix (S4)		Reduced Ver			A, 150B)		·	
-	Redox (S5)		Piedmont Flo				A)		
Stripped	I Matrix (S6)		Anomalous B	right Loam	y Soils (F	20) (MLRA	149A, 153C	, 153D)	
Dark Su	rface (S7) (LRR P, S,	T, U)							
Restrictive	Layer (if observed):								
Туре:									
Depth (in	ches):						Hydric Soil	Present? Yes 🖌 No	
Remarks:							-		



Photo 1 Wetland data point wcmf006e_w facing east



Photo 2 Wetland data point wcmf006e_w facing northwest

Project/Site: Atlantic Coast Pipeline		City/County:	Cumberland Co	ounty	Sampling	Date: 4/15/20	016
Applicant/Owner: Dominion				State: NC	Sampling	Point: wcmf0	06_u
Investigator(s):		Section, Towr	nship, Range: <u> </u>	No PLSS in this a	rea		
Landform (hillslope, terrace, etc.): Terrace						Slope (%):	2
Subregion (LRR or MLRA): La	at: <u>34.970</u>	96751	Long:	-78.74032425		Datum: V	/GS 1984
				NWI classi			
Are climatic / hydrologic conditions on the site typical for this Are Vegetation, Soil, or Hydrologysi Are Vegetation, Soil, or Hydrologyna SUMMARY OF FINDINGS – Attach site map s	ignificantly aturally pro	disturbed?	Are "Norm (If needed	al Circumstances , explain any ansv	" present?	arks.)	
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No Remarks: Utility ROW	o_ ✔		Sampled Area a Wetland?		No _	<u>v</u>	

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 R	oots (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)
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 (inches):	
Water Table Present? Yes No 🖌 Depth (inches):	
Saturation Present? Yes <u>V</u> No Depth (inches): <u>12</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <u>✓</u> No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	ions), if available:
Remarks:	

Sampling Point: <u>wcmf006_u</u>

0	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:0)	<u>% Cover</u>	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
1				That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant Species Across All Strata: 2 (B)
3				Species Across All Strata: 2 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 50 (A/B)
6				Prevalence Index worksheet:
7		·		Total % Cover of:Multiply by:
8		<u> </u>		$\frac{1}{\text{OBL species}} \xrightarrow{0} \text{x 1 = } \xrightarrow{0}$
		= Total Cov		0
50% of total cover:0	20% of	f total cover:	0	FACW species 30 $x = 90$
Sapling/Shrub Stratum (Plot size: 0)				FAC species 30 x 3 = 90
1				FACU species $x 4 = 405$
2				UPL species $25 \times 5 = 125$
3				Column Totals: (A) (B)
4				Prevalence Index = B/A = 3.92
5				
6				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
7		·		2 - Dominance Test is >50%
8	0			3 - Prevalence Index is $≤3.0^1$
0		= Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:0	20% of	f total cover:		
Herb Stratum (Plot size:)				¹ Indicators of hydric soil and wetland hydrology must
1. Rubus allegheniensis	25	Yes	UPL	be present, unless disturbed or problematic.
2. Andropogon virginicus	20	Yes	FAC	Definitions of Four Vegetation Strata:
3. Rumex acetosella	10	No	FACU	Trop Woody plants evoluting vines 3 in (7.6 cm) or
_{4.} Juncus tenuis	10	No	FAC	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
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		·		
10		. <u> </u>		Woody vine – All woody vines greater than 3.28 ft in
11				height.
12				
22		= Total Cov		
50% of total cover: 32.	⁵ 20% of	f total cover:	13	
Woody Vine Stratum (Plot size: 0)				
1				
2				
3				
4				
5				Hydrophytic
				Vegetation
	-	= Total Cov	er	
50% of total covor: 0	0	= Total Cov		Present? Yes No V
50% of total cover:0	0			Present? Yes No V
50% of total cover:0 Remarks: (If observed, list morphological adaptations bel	0 20% of			Present? Yes No
	0 20% of			Present? Yes No
	0 20% of			Present? Yes <u>No</u>

Depth	Matrix		Redo	ox Features	5				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Rema	arks
0-3	10YR 3/1	100					S		
3-12	10YR 5/2	100		_			COS		
12-18	10YR 6/1	100					COS		
						·			
Type: C=C	Concentration, D=Depl	letion, RM=Re	educed Matrix, M	S=Masked	Sand Gra	ains.	² Location: PL=	=Pore Lining, M=	Matrix.
lydric Soil	Indicators: (Application	able to all LR	Rs, unless othe	rwise note	ed.)		Indicators for	Problematic Hy	dric Soils ³ :
Histoso	l (A1)		Polyvalue Be	elow Surfac	ce (S8) (L	RR S, T, U)	1 cm Muck	(A9) (LRR O)	
Histic E	pipedon (A2)		Thin Dark Su					(A10) (LRR S)	
	listic (A3)		Loamy Muck						side MLRA 150A,B
	en Sulfide (A4)		Loamy Gleye	-		,			(F19) (LRR P, S, T
	d Layers (A5)		Depleted Ma		,			s Bright Loamy S	
	Bodies (A6) (LRR P,	T, U)	Redox Dark		6)		(MLRA 1		、 ,
-	ucky Mineral (A7) (LR		Depleted Da					t Material (TF2)	
	resence (A8) (LRR U		Redox Depre					ow Dark Surface	(TF12)
	uck (A9) (LRR P, T)	,	Marl (F10) (L		- /		-	lain in Remarks)	
	d Below Dark Surface	e (A11)	Depleted Oc	•	(MLRA 1	51)	<u> </u>	,	·
	ark Surface (A12)		Iron-Mangan				r) ³ Indicator	s of hydrophytic	vegetation and
	Prairie Redox (A16) (N	(LRA 150A)	-					hydrology must	-
	Mucky Mineral (S1) (L		Delta Ochric			, -,		disturbed or prob	
-	Gleyed Matrix (S4)		Reduced Ve			0A 150B)			Jonnatio.
-	Redox (S5)		Piedmont Flo				A)		
-	d Matrix (S6)						A 149A, 153C, 15	וחפ	
	()	T 11)		Singht Loai			, 149A, 155C, 15	50)	
	urface (S7) (LRR P, S Layer (if observed):	-							
Type:									
	iches):						Hydric Soil Pre	sent? Yes	No 🖌
Remarks:							-		
tomanto.									



Photo 1 Upland data point wcmf006_ u facing northwest



Photo 2 Upland data point wcmf006_ u facing southeast

Project/Site: ACP	City/County: Cumberland Sampling Date: 3/29/16
Applicant/Owner: Dominion	State: NC Sampling Point: Wcmp040f.
Investigator(s): ESI-J, Harbour, K. Murphyey;	Section Township Range: NK
	Local relief (concave, convex, none): Concave Slope (%): U-2
Landform (nillsiope, terrace, etc.):	16668 Long: -78.73927 Datum: W658
Soil Map Unit Name: Torhunta & Lynn Haven soils	
Are climatic / hydrologic conditions on the site typical for this time of year	
Are Vegetation, Soil, or Hydrology significantly of	disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally prol	blematic? (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 Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	Is the Sampled Area within a Wetland? Yes No
NCWAM: Hardwood Flat	
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)
Şurface Water (A1) Aquatic Fauna (B13) Sparsely Vegetated Concave Surface (B8)
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) Presence of Reduce	
Drift Deposits (B3) Recent Iron Reducti V Algal Mat or Crust (B4) Thin Muck Surface (
Iron Deposits (B5) Other (Explain in Re	
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):	NA
Water Table Present? Yes No Depth (inches):	7
(includes capillary fringe)	SUVFACE Wetland Hydrology Present? Yes V No No
Describe Recorded Data (stream gauge, monitoring well, aerial photos	s, previous inspections), if available:
Remarks:	
4	

Sampling Point: MCMP0408_W

2.6.10	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30F+ X 30F+)		Species	-	Number of Dominant Species
1. persea palustris	25	<u> </u>	FACW	That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3		for a deside		Species Across All Strata: (B)
4				Percent of Dominant Species
5	-			Percent of Dominant Species 4090 (A/B)
6				
7				Prevalence Index worksheet:
8. +				Total % Cover of:Multiply by:
	25	= Total Co	ver	OBL species x 1 =
50% of total cover: 2.			Construction and the second second	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 308+X308+)	2070 01	total cover	STREET TO A	FAC species x 3 =
1. Perseo Palustos	5	Y	FACW	FACU species x 4 =
2 Acer rubran	10	v	FAC	UPL species x 5 =
			The	Column Totals: (A) (B)
3				
4				Prevalence Index = B/A =
5		And and Article		Hydrophytic Vegetation Indicators:
6				
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 ¹
	15	= Total Co	ver	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 7.5				
Herb Stratum (Plot size: 308+ X 308+)				Indicators of hudde cell and walland hydrology must
1. JUNIUS REFUSUS	10	Y	FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Eupatorium capilifolium	5	V	FACU	Definitions of Four Vegetation Strata:
2. Standard and a set of the s			11.001	
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		Almandala.		Sapling/Shrub - Woody plants, excluding vines, less
7			A Statistics	than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8			Surviva and the	Herb – All herbaceous (non-woody) plants, regardless
9			A stilling and the	of size, and woody plants less than 3.28 ft tall.
10				Weeduning All weedunings greater than 3.28 ft in
11		0.03.8983		Woody vine – All woody vines greater than 3.28 ft in height.
12				
12.	15	= Total Cov		
50% of total cover: 7.5		total cover	2	
	20% 01	total cover	·	
Woody Vine Stratum (Plot size: 30F+ X 30F+)				
1. None Plesent	A CONTRACTOR			
2			Ref School of	
3				
4		Sur and		
5				Hydrophytic
	0	= Total Cov	ver	Vegetation
50% of total cover:	20% of	total cover	-	Present? Yes No
Remarks: (If observed, list morphological adaptations below	and the second second		and the second	
Remarks. (in observed, ist morphological adaptations belo				

SOIL

Sampling Point: Wemp 040f.w

Profile Description: (Describe to the	e depth needed to docur	ment the indicator or o	confirm the absence	of indicators.)
Depth Matrix	Redo	x Features		
(inches) Color (moist) %			_oc ² Texture	Remarks
0-20 104R2/1 10	79		SL	
<u>- no regenter 10</u>	<u> </u>			The second se
			hand a second second	and the second
			and the second s	
			and the second second	
	and the second second second			a service second se
and the second				
				and the second
¹ Type: C=Concentration, D=Depletion,	PM-Reduced Matrix M	S-Masked Sand Grains	² Location	PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable t				for Problematic Hydric Soils ³ :
Histosol (A1)		elow Surface (S8) (LRR		Muck (A9) (LRR O)
Histic Epipedon (A2)		urface (S9) (LRR S, T, L	the state of the s	Muck (A10) (LRR S)
Black Histic (A3)	Loamy Muck	y Mineral (F1) (LRR O)		ced Vertic (F18) (outside MLRA 150A,B)
Hydrogen Sulfide (A4)	Loamy Gleye	ed Matrix (F2)		ont Floodplain Soils (F19) (LRR P, S, T)
Stratified Layers (A5)	Depleted Ma	trix (F3)	Anom	alous Bright Loamy Soils (F20)
Organic Bodies (A6) (LRR P, T, U)	Redox Dark	Surface (F6)	(ML	RA 153B)
5 cm Mucky Mineral (A7) (LRR P,	A REPORT OF A R	rk Surface (F7)	Red P	arent Material (TF2)
Muck Presence (A8) (LRR U)	Redox Depre	essions (F8)	Very S	Shallow Dark Surface (TF12)
1 cm Muck (A9) (LRR P, T)	Marl (F10) (L		Other	(Explain in Remarks)
Depleted Below Dark Surface (A11		hric (F11) (MLRA 151)		
Thick Dark Surface (A12)		ese Masses (F12) (LRF	RO.P.T) ³ Indi	cators of hydrophytic vegetation and
Coast Prairie Redox (A16) (MLRA				tland hydrology must be present,
Sandy Mucky Mineral (S1) (LRR C		(F17) (MLRA 151)		ess disturbed or problematic.
		rtic (F18) (MLRA 150A,		ese distance el procionicale
Sandy Gleyed Matrix (S4)				
Sandy Redox (S5)		odplain Soils (F19) (MI		4620)
Stripped Matrix (S6)	동안 같은 것은 것은 것은 것이 같은 것은 것을 알았다. 이번 영화님은 소전 등 것이야지?	Bright Loamy Soils (F20) (MLRA 149A, 1550	, 1550)
Dark Surface (S7) /I BB B S T II				
Dark Surface (S7) (LRR P, S, T, U	Party and the owner of the line of the second		and the second second second second	
Restrictive Layer (if observed):				
Restrictive Layer (if observed): Type:	·		Hydric Soi	Present? Yes No
Restrictive Layer (if observed): Type: Depth (inches):			Hydric Soi	Present? Yes No
Restrictive Layer (if observed): Type:			Hydric Soi	Present? Yes No
Restrictive Layer (if observed): Type: Depth (inches):			Hydric Soi	Present? Yes No
Restrictive Layer (if observed): Type: Depth (inches):			Hydric Soi	Present? Yes No
Restrictive Layer (if observed): Type: Depth (inches):			Hydric Soi	Present? Yes No
Restrictive Layer (if observed): Type: Depth (inches):			Hydric Soi	Present? Yes No
Restrictive Layer (if observed): Type: Depth (inches):			Hydric Soi	Present? Yes No
Restrictive Layer (if observed): Type: Depth (inches):			Hydric Soi	Present? Yes No
Restrictive Layer (if observed): Type: Depth (inches):			Hydric Soi	Present? Yes No
Restrictive Layer (if observed): Type: Depth (inches):	·		Hydric Soi	Present? Yes No
Restrictive Layer (if observed): Type: Depth (inches):	·		Hydric Soi	Present? Yes No
Restrictive Layer (if observed): Type: Depth (inches):			Hydric Soi	Present? Yes No
Restrictive Layer (if observed): Type: Depth (inches):			Hydric Soi	Present? Yes No
Restrictive Layer (if observed): Type: Depth (inches):		•	Hydric Soi	Present? Yes No
Restrictive Layer (if observed): Type: Depth (inches):	·		Hydric Soi	Present? Yes No
Restrictive Layer (if observed): Type: Depth (inches):	·		Hydric Soi	Present? Yes No
Restrictive Layer (if observed): Type: Depth (inches):	·	·	Hydric Soi	Present? Yes No
Restrictive Layer (if observed): Type: Depth (inches):	·		Hydric Soi	Present? Yes No
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Restrictive Layer (if observed): Type: Depth (inches):	·		Hydric Soi	Present? Yes No
Restrictive Layer (if observed): Type: Depth (inches):	·		Hydric Soi	Present? Yes No
Restrictive Layer (if observed): Type: Depth (inches):	·		Hydric Soi	Present? Yes No
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Restrictive Layer (if observed): Type: Depth (inches):			Hydric Soi	Present? Yes No
Restrictive Layer (if observed): Type: Depth (inches):			Hydric Soi	Present? Yes No
Restrictive Layer (if observed): Type: Depth (inches):			Hydric Soi	Present? Yes No
Restrictive Layer (if observed): Type: Depth (inches):			Hydric Soi	Present? Yes No

Environmental Field Surveys Wetland Photo Page



Wetland data point wcmp040f_w facing northeast.



Wetland data point wcmp040f_w facing southeast.

WETLAND DETERMINATION D	ATA FORM – Atlantic and Gulf Coastal Plain Region
Project/Site: ACP	City/County: Camberland Sampling Date: 3/29/16
Applicant/Owner: Dominion	State: NC Sampling Point: Wemp B40-u
Investigator(s): ESI-T HOY COUR, K. MURPHIE	Section, Township, Range: NA
Landform (hillslone terrace etc.): \$10.3	Local relief (concave, convex, none): Lonvex Slope (%): 2-4
Subsection (III PA et All PA): 1 B.R. P	24.96666 Long: -78.73945 Datum: W65 84
Soil Map Unit Name: JOY hunta + Lynn Haven	
(2) 医结核结核 化结核素 计算机分析器 网络拉斯特别名 法法律保密 (A)	
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 answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map sho	wing 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	
Remarks:	
HYDROLOGY	Secondary Indicators (minimum of two required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that a	
Surface Water (A1) Aquatic Fau	
	s (B15) (LRR U) Drainage Patterns (B10)
Saturation (A3) Hydrogen St	ulfide Odor (C1) Moss Trim Lines (B16)
2. Solven and M. M. M. M. Markellin and S. Markellin and S. Markellin and S. M. Sharkelin and S. M. Sharkelin and S. Markelin and S Sandari and S. Markelin	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) Thin Muck S Iron Deposits (B5) Other (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:	
Surface Water Present? Yes No Depth (i	
Surface Water Present? Yes No Depth (i	nches): 720

Remarks:

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

Sampling Point: wemp040- u

2011112011	Absolute Dominar		Dominance Test worksheet:
Tree Stratum (Plot size: 305+ × 305+)	% Cover Species	A Real Property and the second s	Number of Dominant Species
1. Persea palastris	10 Y	1-ACW	That Are OBL, FACW, or FAC: (A)
2			Total Number of Dominant
3.			Species Across All Strata:
4.		CIERCE ST	
5.			Percent of Dominant Species 50% (A/B)
6			Prevalence Index worksheet:
7			Total % Cover of: Multiply by:
8			OBL species <u>G</u> x1 = <u>O</u>
	10 = Total Co		FACW species $10 \times 2 = 20$
50% of total cover:	20% of total cove	er:	FAC species x3 =
Sapling/Shrub Stratum (Plot size: 305+X 305+)			
1. NON- Present			FACU species $30 \times 4 = 120$
2.			UPL species $5 \times 5 = 25$
3.			Column Totals: <u>45</u> (A) <u>165</u> (B)
			267
4			Prevalence Index = B/A =
5	的时间上的中部部分的公司的政策的现代的		Hydrophytic Vegetation Indicators:
6	STATISTICS STATISTICS		1 - Rapid Test for Hydrophytic Vegetation
7			2 - Dominance Test is >50%
8			3 - Prevalence Index is ≤3.0 ¹
	= Total Co	over	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of total cove	er:	
Herb Stratum (Plot size: 308+X308+)	and a second state from the		¹ Indicators of hydric soil and wetland hydrology must
1. Eurodovición capillialium	30 Y	FACU	be present, unless disturbed or problematic.
2. Nuttalanthus canadensis	5 M	UPL	Definitions of Four Vegetation Strata:
		NAME OF TRACKS	
3			Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4	Construction and an other second and the second		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 height
11.			height.
12	25		
	$\underline{55}$ = Total Co		
50% of total cover: 17.5	20% of total cove	er:	
Woody Vine Stratum (Plot size: 3054 X3054)			
1. NODE Present			
2.			
3.			
		Conservation of	
4	The second second	C. THERE AND A	-
5	0		Hydrophytic
	= Total Co		Vegetation
50% of total cover:	20% of total cove	er:	
Remarks: (If observed, list morphological adaptations belo	w).		
		1	

	cription: (Describe	to the dept			dicator o	or confirm	the absence	of indicator	5.)
Depth (inches)	Color (moist)	%	Color (moist)	% Features	Type'	Loc ²	Texture		Remarks
0-5		100	Color (moist)		Type	LOC	/ <		Remarks
0-5	104R2/1			-					
5-14	104R2/2	100		-			10		
14-20	7.54R3/3	100					5	-	
				•					
ALSA DERENT					North Control of Contr				
		-					Toron to contract		
	the second second	-	Contraction and					Line and the second	
				<u></u>	Sec.				
Type: C=C	oncentration, D=Depl	letion, RM=I	Reduced Matrix, M	S=Masked S	and Gra	ains.			ning, M=Matrix.
lydric Soil	Indicators: (Applica	able to all L	RRs, unless othe	rwise noted	l.)		Indicators	for Problem	natic Hydric Soils ³ :
Histosol	(A1)		Polyvalue Be	low Surface	(S8) (LI	RR S, T, U) 1 cm M	Muck (A9) (LI	RR O)
Histic E	pipedon (A2)		Thin Dark St					Muck (A10) (I	
Contraction of the second s	istic (A3)		Loamy Muck			0) ·			8) (outside MLRA 150A,E
Contraction and Contraction of the Contraction of t	en Sulfide (A4)		Loamy Gley		2)		contraction and an end of the second state	separate barb de l'Alter de la Sala de Sala	in Soils (F19) (LRR P, S, T
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	d Layers (A5)		Depleted Ma				the second se	land of earlier the state of th	.oamy Soils (F20)
	Bodies (A6) (LRR P,		Redox Dark	and the second second second second				RA 153B) arent Materia	1 (TE2)
	ucky Mineral (A7) (LR esence (A8) (LRR U		Depleted Da						Surface (TF12)
CONTRACTOR MADE AND A	Jck (A9) (LRR P, T)	,	Marl (F10) (I	STATISTICS AND ADDRESS OF THE ADDRES				(Explain in R	
and the second of the second second second	d Below Dark Surface	(A11)	Depleted Oc		ILRA 15	(1)		(=spian in i	
A SHOT PERCENTER		- ()	Iron-Mangar				T) ³ India	cators of hydr	ophytic vegetation and
Thick Di									
Thick Da Coast P		ILRA 150A	The second	ace (F13) (LF	RR P, T,	U)	we	tland hydrolo	gy must be present,
_ Coast P	rairie Redox (A16) (M Aucky Mineral (S1) (L		The second	and service and the state of the service of the ser	142 M 16 N 16	U)		CARLENDAR COUNTRACTOR STOCKED	gy must be present, i or problematic.
Coast P	rairie Redox (A16) (M		Umbric Surfa	(F17) (MLR.	A 151)			CARLENDAR COUNTRACTOR STOCKED	T T T T T T T T T T T T T T T T T T T
Coast P Sandy M Sandy O Sandy P	rairie Redox (A16) (M Mucky Mineral (S1) (L Gleyed Matrix (S4) Redox (S5)		Umbric Surfa Delta Ochric Reduced Ve Piedmont Flo	(F17) (MLR. rtic (F18) (MI podplain Soil	A 151) LRA 150 Is (F19)	0A, 150B) (MLRA 14	uni 9A)	ess disturbed	T T T T T T T T T T T T T T T T T T T
Coast P Sandy N Sandy C Sandy F Sandy F Stripped	rairie Redox (A16) (M Mucky Mineral (S1) (L Gleyed Matrix (S4) Redox (S5) I Matrix (S6)	.RR O, S)	Umbric Surfa Delta Ochric Reduced Ve	(F17) (MLR. rtic (F18) (MI podplain Soil	A 151) LRA 150 Is (F19)	0A, 150B) (MLRA 14	uni 9A)	ess disturbed	T T JUST MANAGERSON AL THERE AND A MARKED AND AND AND AND AND AND AND AND A MARKED AND AND AND AND AND AND AND AND AND AN
Coast P Sandy M Sandy C Sandy C Sandy F Stripped Dark Su	rairie Redox (A16) (M Mucky Mineral (S1) (L Gleyed Matrix (S4) Redox (S5) I Matrix (S6) Iface (S7) (LRR P, S	.RR O, S) , T, U)	Umbric Surfa Delta Ochric Reduced Ve Piedmont Flo	(F17) (MLR. rtic (F18) (MI podplain Soil	A 151) LRA 150 Is (F19)	0A, 150B) (MLRA 14	uni 9A)	ess disturbed	T T T T T T T T T T T T T T T T T T T
Coast P Sandy M Sandy C Sandy F Sandy F Stripped Dark Su Restrictive	rairie Redox (A16) (M Mucky Mineral (S1) (L Gleyed Matrix (S4) Redox (S5) I Matrix (S6)	.RR O, S) , T, U)	Umbric Surfa Delta Ochric Reduced Ve Piedmont Flo	(F17) (MLR. rtic (F18) (MI podplain Soil	A 151) LRA 150 Is (F19)	0A, 150B) (MLRA 14	uni 9A)	ess disturbed	T T T T T T T T T T T T T T T T T T T
Coast P Sandy N Sandy C Sandy C Sandy F Stripped Dark Su Restrictive Type:	rairie Redox (A16) (M Aucky Mineral (S1) (L Gleyed Matrix (S4) Redox (S5) I Matrix (S6) Iface (S7) (LRR P, S Layer (if observed):	.RR O, S) , T, U)	Umbric Surfa Delta Ochric Reduced Ve Piedmont Flo	(F17) (MLR. rtic (F18) (MI podplain Soil	A 151) LRA 150 Is (F19)	0A, 150B) (MLRA 14	un! 9A) A 149A, 153C	ess disturbed	l or problematic.
Coast P Sandy M Sandy C Sandy F Sandy F Stripped Dark Su Restrictive	rairie Redox (A16) (M Aucky Mineral (S1) (L Gleyed Matrix (S4) Redox (S5) I Matrix (S6) Iface (S7) (LRR P, S Layer (if observed):	.RR O, S) , T, U)	Umbric Surfa Delta Ochric Reduced Ve Piedmont Flo	(F17) (MLR. rtic (F18) (MI podplain Soil	A 151) LRA 150 Is (F19)	0A, 150B) (MLRA 14	uni 9A)	ess disturbed	T T T T T T T T T T T T T T T T T T T
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Coast P Sandy M Sandy C Sandy C Sandy F Strippec Dark Su Restrictive Type: Depth (in	rairie Redox (A16) (M Aucky Mineral (S1) (L Gleyed Matrix (S4) Redox (S5) I Matrix (S6) Iface (S7) (LRR P, S Layer (if observed):	.RR O, S) , T, U)	Umbric Surfa Delta Ochric Reduced Ve Piedmont Flo	(F17) (MLR. rtic (F18) (MI podplain Soil	A 151) LRA 150 Is (F19)	0A, 150B) (MLRA 14	un! 9A) A 149A, 153C	ess disturbed	I or problematic.
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Coast P Sandy M Sandy C Sandy F Stripped Dark Su Restrictive Type: Depth (in	rairie Redox (A16) (M Aucky Mineral (S1) (L Gleyed Matrix (S4) Redox (S5) I Matrix (S6) Iface (S7) (LRR P, S Layer (if observed):	.RR O, S) , T, U)	Umbric Surfa Delta Ochric Reduced Ve Piedmont Fl	(F17) (MLR. rtic (F18) (MI podplain Soil	A 151) LRA 150 Is (F19)	0A, 150B) (MLRA 14	un! 9A) A 149A, 153C	ess disturbed	I or problematic.
Coast P Sandy M Sandy C Sandy C Sandy F Strippec Dark Su Restrictive Type: Depth (in	rairie Redox (A16) (M Aucky Mineral (S1) (L Gleyed Matrix (S4) Redox (S5) I Matrix (S6) Iface (S7) (LRR P, S Layer (if observed):	.RR O, S) , T, U)	Umbric Surfa Delta Ochric Reduced Ve Piedmont Fl	(F17) (MLR. rtic (F18) (MI podplain Soil	A 151) LRA 150 Is (F19)	0A, 150B) (MLRA 14	un! 9A) A 149A, 153C	ess disturbed	I or problematic.
Coast P Sandy M Sandy C Sandy F Stripped Dark Su Restrictive Type: Depth (in	rairie Redox (A16) (M Aucky Mineral (S1) (L Gleyed Matrix (S4) Redox (S5) I Matrix (S6) Iface (S7) (LRR P, S Layer (if observed):	.RR O, S) , T, U)	Umbric Surfa Delta Ochric Reduced Ve Piedmont Fl	(F17) (MLR. rtic (F18) (MI podplain Soil	A 151) LRA 150 Is (F19)	0A, 150B) (MLRA 14	un! 9A) A 149A, 153C	ess disturbed	I or problematic.
Coast P Sandy M Sandy C Sandy F Stripped Dark Su Restrictive Type: Depth (in	rairie Redox (A16) (M Aucky Mineral (S1) (L Gleyed Matrix (S4) Redox (S5) I Matrix (S6) Iface (S7) (LRR P, S Layer (if observed):	.RR O, S) , T, U)	Umbric Surfa Delta Ochric Reduced Ve Piedmont Fl	(F17) (MLR. rtic (F18) (MI podplain Soil	A 151) LRA 150 Is (F19)	0A, 150B) (MLRA 14	un! 9A) A 149A, 153C	ess disturbed	I or problematic.
Coast P Sandy M Sandy C Sandy F Stripped Dark Su Restrictive Type: Depth (in	rairie Redox (A16) (M Aucky Mineral (S1) (L Gleyed Matrix (S4) Redox (S5) I Matrix (S6) Iface (S7) (LRR P, S Layer (if observed):	.RR O, S) , T, U)	Umbric Surfa Delta Ochric Reduced Ve Piedmont Fl	(F17) (MLR. rtic (F18) (MI podplain Soil	A 151) LRA 150 Is (F19)	0A, 150B) (MLRA 14	un! 9A) A 149A, 153C	ess disturbed	I or problematic.
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Coast P Sandy M Sandy C Sandy C Sandy F Strippec Dark Su Restrictive Type: Depth (in	rairie Redox (A16) (M Aucky Mineral (S1) (L Gleyed Matrix (S4) Redox (S5) I Matrix (S6) Iface (S7) (LRR P, S Layer (if observed):	.RR O, S) , T, U)	Umbric Surfa Delta Ochric Reduced Ve Piedmont Fl	(F17) (MLR. rtic (F18) (MI podplain Soil	A 151) LRA 150 Is (F19)	0A, 150B) (MLRA 14	un! 9A) A 149A, 153C	ess disturbed	I or problematic.
Coast P Sandy M Sandy C Sandy C Sandy F Strippec Dark Su Restrictive Type: Depth (in	rairie Redox (A16) (M Aucky Mineral (S1) (L Gleyed Matrix (S4) Redox (S5) I Matrix (S6) Iface (S7) (LRR P, S Layer (if observed):	.RR O, S) , T, U)	Umbric Surfa Delta Ochric Reduced Ve Piedmont Fl	(F17) (MLR. rtic (F18) (MI podplain Soil	A 151) LRA 150 Is (F19)	0A, 150B) (MLRA 14	un! 9A) A 149A, 153C	ess disturbed	I or problematic.
Coast P Sandy M Sandy C Sandy F Stripped Dark Su Restrictive Type: Depth (in	rairie Redox (A16) (M Aucky Mineral (S1) (L Gleyed Matrix (S4) Redox (S5) I Matrix (S6) Iface (S7) (LRR P, S Layer (if observed):	.RR O, S) , T, U)	Umbric Surfa Delta Ochric Reduced Ve Piedmont Fl	(F17) (MLR. rtic (F18) (MI podplain Soil	A 151) LRA 150 Is (F19)	0A, 150B) (MLRA 14	un! 9A) A 149A, 153C	ess disturbed	I or problematic.
Coast P Sandy N Sandy C Sandy F Strippec Dark Su Restrictive Type: Depth (in	rairie Redox (A16) (M Aucky Mineral (S1) (L Gleyed Matrix (S4) Redox (S5) I Matrix (S6) Iface (S7) (LRR P, S Layer (if observed):	.RR O, S) , T, U)	Umbric Surfa Delta Ochric Reduced Ve Piedmont Flo	(F17) (MLR. rtic (F18) (MI podplain Soil	A 151) LRA 150 Is (F19)	0A, 150B) (MLRA 14	un! 9A) A 149A, 153C	ess disturbed	I or problematic.
Coast P Sandy M Sandy C Sandy F Strippec Dark Su estrictive Type: Depth (in	rairie Redox (A16) (M Aucky Mineral (S1) (L Gleyed Matrix (S4) Redox (S5) I Matrix (S6) Iface (S7) (LRR P, S Layer (if observed):	.RR O, S) , T, U)	Umbric Surfa Delta Ochric Reduced Ve Piedmont Flo	(F17) (MLR. rtic (F18) (MI podplain Soil	A 151) LRA 150 Is (F19)	0A, 150B) (MLRA 14	un! 9A) A 149A, 153C	ess disturbed	I or problematic.



Upland data point wcmp040_u facing north.



Upland data point wcmp040_u facing south.

Project/Site: ALP	City/C	ounty: Cumberl	and s	Sampling Date: 4-28-16
Applicant/Owner: Dominion		S	tate: <u>NC</u> s	Sampling Point: Wemo034e_u
Investigator(s): L. Roper, W. V	aughan section	on, Township, Range:	ione	
Landform (hillslope, terrace, etc.): depression				
Subregion (LRR or MLRA): LRR T	Lat: 34, 96730		78.739385	Datum: W1.584
Soil Map Unit Name: Woodington	,			
Are climatic / hydrologic conditions on the site				
Are Vegetation, Soil, or Hydro	logy significantly distur			esent? Yes No
Are Vegetation, Soil, or Hydro	logy naturally problema	atic? (If needed, ex	cplain any answers	in Remarks.)
SUMMARY OF FINDINGS – Attack	n site map showing san	pling point location	ns, transects,	important features, etc.
Hydric Soil Present? Ye Wetland Hydrology Present? Ye	es No es No No	Is the Sampled Area within a Wetland?	Yes_/	No
Abnormally dry L		re		
HYDROLOGY	0110110113			
Wetland Hydrology Indicators:		5	Secondary Indicato	ors (minimum of two required)
Primary Indicators (minimum of one is requi	red; check all that apply)		Surface Soil C	
Surface Water (A1)	Aquatic Fauna (B13)		Sparsely Vege	tated Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15) (LRI	R U)	Drainage Patte	ems (B10)
Saturation (A3)	Hydrogen Sulfide Odor (0		Moss Trim Lin	
Water Marks (B1)	Oxidized Rhizospheres a	long Living Roots (C3)		/ater Table (C2)
Sediment Deposits (B2)	Presence of Reduced Iro		Crayfish Burro	
Drift Deposits (B3)	Recent Iron Reduction in	Tilled Soils (C6)		ible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)		Geomorphic P Shallow Aquita	
Iron Deposits (B5)	Other (Explain in Remark	(S)	FAC-Neutral T	
Inundation Visible on Aerial Imagery (B Water-Stained Leaves (B9)	()			oss (D8) (LRR T, U)
Field Observations:				
	No Depth (inches):	ł		
Water Table Present? Yes	No Depth (inches): 72	10 inches		
Saturation Present? Yes	No <u>V</u> Depth (inches): <u>>2</u> No <u>V</u> Depth (inches): <u>>2</u>	20 inches Wetland Hy	ydrology Present	7 Yes No
(includes capillary fringe)			labla:	
Describe Recorded Data (stream gauge, mo	onitoring well, aenal photos, pre	vious inspections), il avail	able.	
Remarks:				
				and the second

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

Sampling Point: War 034e-w

1745 1745	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30ff x 30ff)	% Cover Species? Status	Number of Dominant Species
1. none		That Are OBL, FACW, or FAC: (A)
2		Total Number of Dominant
3		Species Across All Strata: (B)
4		Percent of Dominant Species - 50
5		Percent of Dominant Species 7/50 (A/B)
6		
7		Prevalence Index worksheet:
8		Total % Cover of:Multiply by:
	= Total Cover	OBL species x 1 =
FOR of total course	20% of total cover:	FACW species x 2 =
SU% OF TOTAL COVER	20% of total cover	FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 30 FF x 30 FF)		FACU species x 4 =
1. none		UPL species x 5 =
2		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		$\boxed{1}$ 3 - Prevalence Index is $\leq 3.0^{1}$
	= Total Cover	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of total cover:	
Herb Stratum (Plot size: 30f4 x 30ff)		¹ Indicators of hydric soil and wetland hydrology must
1. Juncus effusus	GO Y OBL	be present, unless disturbed or problematic.
2. Poa compressa		Definitions of Four Vegetation Strata:
3. Unknown grass		
		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		Woody vine - All woody vines greater than 3.28 ft in
11		height.
12		
	115 = Total Cover	
50% of total cover: 57.	5 20% of total cover: 23	
Woody Vine Stratum (Plot size: 30ft x 30ft)		
1. hone		
2		
3		
3		
4		
5		Hydrophytic
	= Total Cover	Vegetation Present? Yes <u>No</u>
50% of total cover:	20% of total cover:	
Remarks: (If observed, list morphological adaptations belo	w).	
mowed unknown grasses, too	early in seaso	n to identity
Tunius effisis = 60% Pir	walence Index would	n to identify the 23.0 even if unidentied grass
was upl.		

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Sampling Point: WCMD 034e-w

Profile Des	cription: (Describe	to the depth	needed to	document the	Indicator	or confirm	the absence of in	ndicators.)
Depth	Matrix			Redox Feature	es			Remarks
(inches)	Color (moist)	%	Color (moi		Type'	_Loc ²	SCL	Remains
0-12	10-1 4/2	0.0	045 4/1	<u> </u>	<u> </u>			
12-20	10yr 3/1	95 10	yr 4/6		<u> </u>	PL.	SCL	
					S			
	oncentration, D=Dep	letion RM=R	educed Ma	trix MS=Maske	d Sand Gr	ains	² Location: PL	=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applic	able to all LF	Rs, unless	s otherwise no	ted.)			Problematic Hydric Soils ³ :
Histoso				lue Below Surf		.RR S, T, U		(A9) (LRR O)
	pipedon (A2)			ark Surface (S				(A10) (LRR S)
	istic (A3)			Mucky Minera		10)		/ertic (F18) (outside MLRA 150A,B)
-	en Sulfide (A4)			Gleyed Matrix ed Matrix (F3)	(F2)			Floodplain Soils (F19) (LRR P, S, T) s Bright Loamy Soils (F20)
1 Descent	d Layers (A5) Bodies (A6) (LRR P	. T. U)	June 1	Dark Surface	(F6)		(MLRA	-
	ucky Mineral (A7) (LI		and the second se	ed Dark Surfac			Red Parer	nt Material (TF2)
Muck P	resence (A8) (LRR L			Depressions (F8)			ow Dark Surface (TF12)
	uck (A9) (LRR P, T)			F10) (LRR U)		541	Other (Exp	plain in Remarks)
	d Below Dark Surfac ark Surface (A12)	e (A11)		ted Ochric (F11 langanese Mas			T) ³ Indicator	rs of hydrophytic vegetation and
	Prairie Redox (A16) (MLRA 150A)		c Surface (F13)				d hydrology must be present,
1 June	Mucky Mineral (S1) (Delta	Ochric (F17) (N	ILRA 151)			disturbed or problematic.
	Gleyed Matrix (S4)			ed Vertic (F18)				
	Redox (S5)			ont Floodplain			9A) A 149A, 153C, 15	30)
	d Matrix (S6) urface (S7) (LRR P, S	5. T. U)		alous Bright Lo	arriy Solis ((F20) (MLR	A 145A, 1550, 15	
	Layer (if observed)						1	
Type:								
Depth (ir	nches):						Hydric Soil Pro	esent? Yes V No
Remarks:								

Atlantic and Gulf Coastal Plain Region - Version 2.0



Wetland data point wcmo034e_w facing northeast.



Wetland data point wcmo034e_w facing northwest.

Project/Site: ACP City/C	County: Lamberland Sampling Date: 4-28-16
Applicant/Owner: Dominion	State: NC Sampling Point: WCM0034_ M
Investigator(s): LiRoper, W. Vaughan Section	
Landform (billalana tarmaa ata): Elat	relief (concave, convex, none): Ago (Slope (%): O
	relief (concave, convex, none): <u>Nonc</u> Slope (%): <u>O</u> 139 Long: <u>78.739451</u> Datum: <u>W(r589</u>
Subregion (LRR or MLRA): CIA Lat: 54.462	Long: 10.701451 Datum. 000304
Soil Map Unit Name: Woodington loamy san	
Are climatic / hydrologic conditions on the site typical for this time of year? Y	'es No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly distur	bed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally problems	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	Is the Sampled Area within a Wetland? Yes No
Remarks:	
Abnormally dry condition	5
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)	
Saturation (A3)	
Water Marks (B1) Oxidized Rhizospheres a	
Sediment Deposits (B2)	
□ Drift Deposits (B3) □ Recent Iron Reduction in □ 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)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No Depth (inches):K	
Water Table 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, pre	vious inspections), if available:
Remarks:	
	8

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

Sampling Point: Wcmo034-4

2661 2-61	Absolute I			Dominance Test worksheet:
Tree Stratum (Plot size: 30ft x 30ft) 1. None	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant Species Across All Strata: (B)
4 5				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8				$\frac{1}{0BL \text{ species}} \frac{2 \upsilon}{12} \times 1 = 2 \upsilon$
	=	Total Cov	er	
50% of total cover:	20% of to	otal cover:		FACW species $x = 15$ FAC species $15 = 3 = 45$
Sapling/Shrub Stratum (Plot size: 30 F4 x 30 F4)				FAC species $90 \times 4 = 360$
1. none				
2				UPL species x5 =
3				Column Totals: 12.5 (A) 42.5 (B)
4				Prevalence Index = $B/A = 3.4$
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				\square 3 - Prevalence Index is $\leq 3.0^{1}$
	=			
50% of total cover:				Problematic Hydrophytic Vegetation ¹ (Explain)
Herb Stratum (Plot size: <u>30ft × 30ft</u>)		otar cover.		1. If the data with and united budgetons much
1. Poa compressa	30	V	FALU	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Hordeum pusillum	05	ý V	FALU	Definitions of Four Vegetation Strata:
2. Tiordeum position	20	N	FACU	n na hanna ann an ann an h-rinn ann an h-rinn ann an h-rinn ann ann ann ann ann ann ann ann ann
3. Oxalis dillenii 4. Juneus effesus		N	OBL	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
		N	FAL	more in diameter at breast height (DBH), regardless of height.
5. Andropogen Virginicus	-13		Care di salam print dan lingu dan salam	
6. Geranium maculatom			FACU	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
		Total Cov		
50% of total cover: 62	5 20% of to	otal cover:	25	
Woody Vine Stratum (Plot size: 30ft x 30ft)				
1. none				
2.				
3				
4				
5.		Contraction and the second		Underspectio
····		Total Cov	er	Hydrophytic Vegetation
50% of total cover:				Present? Yes No
		otal cover.		
Remarks: (If observed, list morphological adaptations belo	JW).			
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Sampling Point: wcmoD3H_u

Profile Des	cription: (Describe	to the depth r				or confirm	the absence of in	ndicators.)
Depth	Matrix	%	Redo Color (moist)	x Feature	s Type'	Loc ²	Texture	Remarks
(inches) O-4	Color (moist)	/00	COIDE (HIDISU	%	TADG	200	L	T SWITCHISM.
4-12	2.54 3/3)yr 4/6	10		m	CL _	
	2.5y 4/3			Contraction of the Contraction		M	CL	
12-15	2.5, 4/2	90 10	yr 4/6	10	<u> </u>			
	-							
	oncentration, D=Dep Indicators: (Applic					ains.		=Pore Lining, M=Matrix. Problematic Hydric Soils ³ :
Hydric Soll		able to all LR	Polyvalue Be			RR S. T. U		(A9) (LRR O)
	pipedon (A2)		Thin Dark Su				2 cm Much	(A10) (LRR S)
Black H	istic (A3)		Loamy Muck			0)		Vertic (F18) (outside MLRA 150A,B)
	en Sulfide (A4) d Layers (A5)		Loamy Gleye Depleted Ma		(F2)			Floodplain Soils (F19) (LRR P, S, T) s Bright Loamy Soils (F20)
The second secon	: Bodies (A6) (LRR F	, T, U)	Redox Dark		-6)		(MLRA	
5 cm M	ucky Mineral (A7) (L	RR P, T, U)	Depleted Da	rk Surface	e (F7)			nt Material (TF2)
	resence (A8) (LRR L	J) .	Redox Depre		8)			iow Dark Surface (TF12) plain in Remarks)
	uck (A9) (LRR P, T) d Below Dark Surface	e (A11)	Depleted Oc		(MLRA 1	51)		sian arrestians,
Thick D	ark Surface (A12)		Iron-Mangan	ese Mass	es (F12) (LRR O, P,		rs of hydrophytic vegetation and
1 June	Prairie Redox (A16) (Umbric Surfa		•			d hydrology must be present, disturbed or problematic.
	Mucky Mineral (S1) (Gleyed Matrix (S4)	LRR 0, 5)	Reduced Ve				Liness	distanced of problematio.
	Redox (S5)		Piedmont Flo	oodplain S	Soils (F19)	(MLRA 14		
	d Matrix (S6)	C T 10	Anomalous I	Bright Loa	my Soils (F20) (MLR	A 149A, 153C, 15	i3D)
	Layer (if observed)							
Type:			_					1
Depth (ir	nches):		_				Hydric Soil Pro	esent? Yes No
Remarks:		-						
	inr past 1	>						



Upland data point wcmo034_u facing southeast.



Upland data point wcmo034_u facing southwest.

Project/Site: ACP City	y/County: Cumberland Sampling Date: 5/13/16
Applicant/Owner: Dominiun	State: NC Sampling Point: WCmr 0D5f.w
Investigator(s): ESI-IK. Markham, K. Murphrey Se	
Landform (hillslope, terrace, etc.): <u>Devression</u> Loo	cal relief (concave, convex, none): <u>CUACAVE</u> Slope (%): <u>U-2</u>
Subregion (LRR or MLRA): LRR P Lat: 34, 44	662 Long: -78-73737 Datum: W65 8
Soil Map Unit Name: Daplin sondy Loom, 0-390 5	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 dis	turbed? - Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally proble	
	ampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	Is the Sampled Area within a Wetland? Yes No
Remarks: Heavy rain within Post 24 ho	urs
	2
NCWAM: Pine Flot	
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)	
Saturation (A3)	
	as along Living Roots (C3)
Sediment Deposits (B2)	
Drift Deposits (B3)	
Algal Mat or Crust (B4)	
Iron Deposits (B5) Uther (Explain in Rem	
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): [NA
Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches):	220
Saturation Present? Yes <u>Ves</u> No Depth (inches): <u>Ves</u>	Surface Wetland Hydrology Present? Yes No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos,	previous inspections), if available:
Remarks:	
S	

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

Sampling Point: WCmr005f.w

206 42060		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 20Ft X 30Ft) 1. PIOUS LORD B.		Species?	Contraction of the local division of the loc	Number of Dominant Species 5 (A)
2				Total Number of Dominant 5 (B)
4				
5				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8	10			OBL species x 1 =
11.0		= Total Cov		FACW species x 2 =
50% of total cover: 40	20% of	total cover	10	FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 3054 X3054)	15		FAC	FACU species x 4 =
1. Flex opaca	26	N		UPL species x 5 =
2. Quercus nigra	40		FAC	Column Totals: (A) (B)
3. Ilex coriaceo	50	<u></u>	FACW	
4. ACEV VULDVUM	10	N	FAC	Prevalence Index = B/A =
5. Symplocos tinctoria	15	N	FAC	Hydrophytic Vegetation Indicators:
6. Vaccinium aurymbosum	10	/V	FACW	1 Rapid Test for Hydrophytic Vegetation
7. NYSSA Sylvatica	10	N	FAC	2 - Dominance Test is >50%
8. Liquidarabar Styracistua	10	N	FAC	$\boxed{1}$ 3 - Prevalence Index is $\leq 3.0^{1}$
	145	= Total Cov	rer	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 72.	5 20% of	total cover	29	
Herb Stratum (Plot size: 30 At X3054)	<	Y	FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. CIEtura almiblia		_/		
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				neight.
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				A
		= Total Cov	/er	
50% of total cover: 2.5	20% of	total cover	·	
Woody Vine Stratum (Plot size: 2054 X 3054)		1	FAC	
1. VILIS VOTUNDIBUID	5	Y	FA(
2. Smilet Votunditurion	5	4	FAC	
3				
4.			raamieria (al-Irreina)	
5.				Hydrophytic
	10	= Total Cov	/er	Vegetation
50% of total cover:		f total cover	0	Present? Yes No
Remarks: (If observed, list morphological adaptations belo		total corei		
Remarks. (ir observed, list morphological adaptations beid	(**).			

Profile Des	cription: (Describe	to the depth nee			or confirm	the absence of in	dicators.)	
Depth	Matrix Color (moist)	% Co	Redox lor (moist)	K Features	Loc ²	Texture	Remarks	
(inches)	Color (moist)					TEALUIE	i ventarită	
1-0	CIGONICS	100				No. etc. 1		
0-8	104R3/1	100			· ·	MuckyL		
8-14	104R3/1	100				SCL		
14-20	104R4/2	80 100	1R4/4	20 (M	Clay		
	,					1		
						21	Dere Lining Mattain	
'Type: C=C	oncentration, D=Dep Indicators: (Applic	etion, RM=Redu	ced Matrix, MS	S=Masked Sand G	rains.		Pore Lining, M=Matrix. Problematic Hydric Soils	:
				low Surface (S8) (RRSTI		(A9) (LRR O)	-
Histoso	i (A1) pipedon (A2)	님	•	inface (S9) (LRR S			(A10) (LRR S)	
	listic (A3)	H		y Mineral (F1) (LR		Reduced V	ertic (F18) (outside MLRA	
	en Sulfide (A4)			d Matrix (F2)	10742	Piedmont F	loodplain Soils (F19) (LRF	
Stratifie	d Layers (A5)		Depleted Mat				Bright Loamy Soils (F20)	
	Bodies (A6) (LRR P		Redox Dark S				53B) Material (TF2)	
- Territoria	ucky Mineral (A7) (LF		Redox Depre	rk Surface (F7)			w Dark Surface (TF12)	
	resence (A8) (LRR U uck (A9) (LRR P, T)	" H	Marl (F10) (L				lain in Remarks)	
	d Below Dark Surfac	e (A11)		hric (F11) (MLRA	151)			
	ark Surface (A12)		Iron-Mangan	ese Masses (F12)	(LRR O, P,	•	s of hydrophytic vegetation	
	Prairie Redox (A16) (I			ice (F13) (LRR P,			hydrology must be presen	it,
	Mucky Mineral (S1) (LRR O, S)		(F17) (MLRA 151			listurbed or problematic.	
	Gleyed Matrix (S4) Redox (S5)	1		rtic (F18) (MLRA 1 podplain Soils (F19				
	d Matrix (S6)					A 149A, 153C, 153	3D)	
	urface (S7) (LRR P, S	s, t, U)						
	Layer (if observed)						/	-
Type:								
Depth (i	nches):					Hydric Soil Pre	sent? Yes No	·
Remarks:								
			1					
				4				
L				Contraction of the second s				



Wetland data point wcmr005f_w facing southwest.



Wetland data point wcmr005f_w facing southeast.

Project/Site: ACP	City/County: Cumberland Sampling Date: 5/13/16 State: NC Sampling Point: WEAR 005e
Applicant/Owner: Dominion	State: NC Sampling Point: WCMr 005em
Investigator(s): ESI-K.Markham, K. Marphrey	Sastian Townshin Pange: NA
Landform (hillslope, terrace, etc.): Depression	attend of the second state
Subregion (LRR or MLRA): LKKT Lat: 51.	94647 Long: -78.73773 Datum: W6584 510 Pes - NWI classification: PEM
Soli Map Onit Name. Doct of Control of Contr	
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? 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 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 Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	Is the Sampled Area within a Wetland? Yes No
Remarks:	
HYDROLOGÝ	
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) Marl Deposits (B1) Saturation (A3) Hydrogen Sulfide (
	heres along Living Roots (C3)
Sediment Deposits (B2)	
	tion in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	
Iron Deposits (B5) Other (Explain in F	Remarks) Distallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	SNA
Surface Water Present? Yes No Depth (inches	
Water Table Present? Yes No Depth (inches	
Saturation Present? Yes <u>Ves</u> No <u>Depth</u> (inches	s): CMERCE Wetland Hydrology Present? Yes No No
Describe Recorded Data (stream gauge, monitoring well, aerial phot	os, previous inspections), if available:
Remarks:	
portions inundated	

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

Sampling Point: WCmr005e.w

Case No. 4	Absolute Dominant In	dicator	Dominance Test worksheet:
, ADDO DESCOL	% Cover Species?		Number of Dominant Species (A)
2	<u> </u>		Total Number of Dominant
3			Species Across All Strata: (B)
4			Percent of Dominant Species 100 90 (A/B)
6			
7			Prevalence Index worksheet:
8			Total % Cover of: Multiply by:
	O = Total Cover		OBL species x 1 =
50% of total cover:			FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 305+X 305+)			FAC species x 3 =
1. none present			FACU species x 4 =
2			UPL species x 5 =
3			Column Totals: (A) (B)
4			Prevalence Index = B/A =
5			Hydrophytic Vegetation Indicators:
6		10	□ 1-Rapid Test for Hydrophytic Vegetation
7			2 - Dominance Test is >50%
8	0 = Total Cover		3 - Prevalence Index is $\leq 3.0^{1}$
50% of total cover:		· · · · ·	Problematic Hydrophytic Vegetation ¹ (Explain)
Herb Stratum (Plot size: 3074X3074)	_ 20% of total cover		
1. Andropogdo Virginicas	20 Y F	AC	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Arundinaria gia antea	20 1 5	ACW	Definitions of Four Vegetation Strata:
3. Rubus avoutas	05 VE	AC	
4. Pinus taeda	E N F	AC	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
	designation of the local division of the loc	AC	more in diameter at breast height (DBH), regardless of height.
5. Eurotorium votuntifolium			
6. Grass SP. 7.		INK	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			
11		1	Woody vine – All woody vines greater than 3.28 ft in height.
12			noight.
12.	90 = Total Cover		
50% of total cover: 45	20% of total cover:	1 -1	
Woody Vine Stratum (Plot size: 3074 X 3054)		10	
1. Smilax bonanox	SYE	RC	
		1.0	
2			
3			
4			
5	~		Hydrophytic
2	= Total Cover	1	Vegetation Present? Yes No
50% of total cover: 2.5	20% of total cover:		
Remarks: (If observed, list morphological adaptations below	N).		
			9
		-	

	cription: (Describe	to the dept				or confirm	the absence of	indicators.)
Depth (inches)	Color (moist)	%	Color (moist)	x Features %	Type	Loc ²	Texture	Remarks
(inches)	100R4/2	90	104R4/6	10	(PI	(L	
4-20	1000512	70	10685/8	30	C	AA	C	
1-00	INGR DIL	10	0	JU				
1TVD0: C-C	oncentration, D=Dep	letion PM-	Reduced Matrix M	S=Masked	Sand G	rains	² Location: PL	=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applic	able to all	LRRs, unless othe	rwise note	d.)			r Problematic Hydric Soils ³ :
Histosol			Polyvalue Be			LRR S, T. U		k (A9) (LRR O)
	pipedon (A2)		Thin Dark Su				2 cm Muc	k (A10) (LRR S)
Black H	istic (A3)		Loamy Muck	y Mineral (F1) (LR			Vertic (F18) (outside MLRA 150A,B)
	en Sulfide (A4)		Loamy Gleye		-2)			Floodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)	T 10	Depleted Ma Redox Dark		6)		Anomalou	us Bright Loamy Soils (F20) 1538)
	Bodies (A6) (LRR P ucky Mineral (A7) (LF							nt Material (TF2)
The second se	resence (A8) (LRR U		Redox Depre				U Very Sha	llow Dark Surface (TF12)
1 cm M	uck (A9) (LRR P, T)		Marl (F10) (L	RR U)			Other (E)	plain in Remarks)
	d Below Dark Surfac	e (A11)	Depleted Oc				3	of hudrophylic vessiblies and
	ark Surface (A12)	AL DA 450	A) Umbric Surfa					ors of hydrophytic vegetation and nd hydrology must be present,
1 mm	Prairie Redox (A16) (Mucky Mineral (S1) (I		Delta Ochric					disturbed or problematic.
	Gleyed Matrix (S4)		Reduced Ve					
	Redox (S5)		Piedmont Fl	oodplain Se	oils (F19) (MLRA 14	9A)	
Stripper	d Matrix (S6)		Anomalous I	Bright Loan	ny Soils	(F20) (MLR	A 149A, 153C, 1	53D)
	urface (S7) (LRR P, S						1	
	Layer (if observed)	:						/
Type:	achoa):						Hydric Soil P	resent? Yes No
Depth (ir	iciles):						injune bon Pl	
Remarks:								
	13							
		1						



Wetland data point wcmr005e_w facing west.



Wetland data point wcmr005e_w facing south.

1. cQ	Cardogelood 5/13/16
	County: Camberland Sampling Date: 5/13/16
Applicant/Owner: <u>Moninion</u>	State: NC Sampling Point: WCMr 005-4
Investigator(s): ESI-K. Maricham, K. Murphley Section	on, Township, Range:
Landform (hillslope, terrace, etc.): Flot Local	relief (concave, convex, none): <u>FIA+</u> Slope (%): <u>O-2</u> 582 Long: <u>-78.73747</u> Datum: <u>W6584</u>
Subregion (LRR or MLRA): LRR P Lat: 34.946	DD Long: _/ D. 13/1 / Datum: W6 2 8
Soil Map Unit Name: Duplin Sondy loom, 0-390 SIDE	
Are climatic / hydrologic conditions on the site typical for this time of year? Y	'es No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly distur	
Are Vegetation, Soil, or Hydrology naturally problem	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing san	npling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? 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 Soil Cracks (B6)
Surface Water (A1)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)	
Saturation (A3)	
Water Marks (B1)	
Sediment Deposits (B2) Presence of Reduced Inc Drift Deposits (B3) Recent Iron Reduction in	
Algal Mat or Crust (B4)	Geomorphic Position (D2)
Iron Deposits (B5) Other (Explain in Remark	
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):	IA
Water Table Present? Yes No Depth (inches):	.20"
Saturation Present? Yes No Depth (inches): 2	2011 Wetland Hydrology Present? Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
D	
Remarks:	

l

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

Sampling Point: WCmr 005.u

2.4.42.61	Absolute			Dominance Test worksheet:
Tree Stratum (Plot size: 30 F+ X 30 F+)	1 0	Species?		Number of Dominant Species
1. Pinus talda	60	-7	FAC	That Are OBL, FACW, or FAC: (A)
2. Acer (ubrum)	10		FAC	Total Number of Dominant Species Across All Strata:
4				
5				Percent of Dominant Species 100 90 (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8				OBL species x1 =
	/()	= Total Cov	/er	FACW species x 2 =
50% of total cover: 35	20% of	total cover	14	FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 305+X 305+)	20	~1	505	FACU species x 4 =
1. NYSSA Sylvotica	20	N	FAC	UPL species x 5 =
2. ACEV VUBRUM	20	N	FAC	Column Totals: (A) (B)
3. Liquidambor Styraciflues		N	FAC	
4. Ilex glabra	35	<u> </u>	FACW	Prevalence Index = B/A =
5. RELEVICIS NIGRO	10	N	FAC	Hydrophytic Vegetation Indicators:
6. MACCINIUM Corrymbosum		N	FACW	A Rapid Test for Hydrophytic Vegetation
7. Iley coriació	10	N	FACW	2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 ¹
	115	= Total Cov	/er	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: <u>57.</u>	5 20% of	total cover	:23	
Herb Stratum (Plot size: 30F+X30F+)				¹ Indicators 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 height.
5				neight.
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.
10				
				Woody vine – All woody vines greater than 3.28 ft in height.
11				neight.
12		= Total Cov		
	1	total cover		
50% of total cover: Woody Vine Stratum (Plot size: 3/A X30FF)	20% 01	total cover		
1. VITIS (04900019010	5	Y	FAC	
			110	
2				
3				
4				
5				Hydrophytic
		= Total Cov		Vegetation Present? Yes No
50% of total cover: _2. 5	20% of	total cover	:	
Remarks: (If observed, list morphological adaptations belo	w).			
50				

		to the dep	th needed to docum			or confirm	n the absence o	f indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	Features %	Type'	Loc ²	Texture	Remarks
()-)	104R4/2	100					FSL	
2-14	104R 5/2	80	104R5/4	20	C	M	LC	
14-20	100,000		104R 5/6	20		1	<u> </u>	
17 20	IDAROIA	40	1041310	20		101		
¹ Type: C=C	oncentration, D=Dep	letion, RM	=Reduced Matrix, MS	S=Masked	Sand G	rains.		PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Application)	able to all	LRRs, unless other					or Problematic Hydric Soils ³ :
Histosol			Polyvalue Be					uck (A9) (LRR O)
	pipedon (A2)		Thin Dark Su Loamy Muck					uck (A10) (LRR S) d Vertic (F18) (outside MLRA 150A,B)
	istic (A3) en Sulfide (A4)		Loamy Gleye			(0)		nt Floodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)		Depleted Ma		/			ous Bright Loamy Soils (F20)
	Bodies (A6) (LRR P	, T, U)	Redox Dark		6)			A 153B)
The second se	ucky Mineral (A7) (LF							rent Material (TF2)
	resence (A8) (LRR U)	Redox Depre		8)			nallow Dark Surface (TF12) Explain in Remarks)
	uck (A9) (LRR P, T) d Below Dark Surfac	e (A11)	Depleted Oc		(MLRA	(51)		
	ark Surface (A12)	e (////)	Iron-Mangan				,T) ³ Indica	ators of hydrophytic vegetation and
	rairie Redox (A16) (M	MLRA 150	A) 🔲 Umbric Surfa	ce (F13)	LRR P,	T, U)		and hydrology must be present,
	Mucky Mineral (S1) (I	LRR O, S)						ss disturbed or problematic.
	Gleyed Matrix (S4)		Reduced Ver					
	Redox (S5) d Matrix (S6)		Piedmont Flo				RA 149A, 153C,	153D)
	urface (S7) (LRR P, S	5. T. U)		inght Loui		(, 20) (,,,,		,
	Layer (if observed)							
Type:								
Depth (ir	nches):						Hydric Soil	Present? Yes No
Remarks:								
	4e -							
1								
						-		



Upland data point wcmr005_u facing northwest.



Upland data point wcmr005_u facing northeast.

Project/Site: ACP City	y/County: Cumberland Sampling Date: 5/13/16
Applicant/Owner: Dominiun	State: NC Sampling Point: WCmr 0D5f.w
Investigator(s): ESI-IK. Markham, K. Murphrey Se	
Landform (hillslope, terrace, etc.): <u>Devression</u> Loo	cal relief (concave, convex, none): <u>CUACAVE</u> Slope (%): <u>U-2</u>
Subregion (LRR or MLRA): LRR P Lat: 34, 44	662 Long: -78-73737 Datum: W65 8
Soil Map Unit Name: Daplin sondy Loom, 0-390 5	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 dis	turbed? - Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally proble	
	ampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	Is the Sampled Area within a Wetland? Yes No
Remarks: Heavy rain within Post 24 ho	urs
	2
NCWAM: Pine Flot	
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)	
Saturation (A3)	
	s along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2)	
Drift Deposits (B3)	
Algal Mat or Crust (B4)	
Iron Deposits (B5) Uther (Explain in Rem	
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): [NA
Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches):	220
Saturation Present? Yes <u>Ves</u> No Depth (inches):	Surface Wetland Hydrology Present? Yes No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos,	previous inspections), if available:
Remarks:	
S	

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

Sampling Point: WCmr005f.w

206 42060		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 20Ft X 30Ft) 1. PIOUS LORD B.		Species?	Contraction of the local division of the loc	Number of Dominant Species 5 (A)
2				Total Number of Dominant 5 (B)
4				
5				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8	10			OBL species x 1 =
11.0		= Total Cov		FACW species x 2 =
50% of total cover: 40	20% of	total cover	10	FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 3054 X3054)	15		FAC	FACU species x 4 =
1. Flex opaca	26	N		UPL species x 5 =
2. Quercus nigra	40		FAC	Column Totals: (A) (B)
3. Ilex coriaceo	50	<u></u>	FACW	
4. ACEV VULDVUM	10	N	FAC	Prevalence Index = B/A =
5. Symplocos tinctoria	15	N	FAC	Hydrophytic Vegetation Indicators:
6. Vaccinium aurymbosum	10	/V	FACW	1 Rapid Test for Hydrophytic Vegetation
7. NYSSA Sylvatica	10	N	FAC	2 - Dominance Test is >50%
8. Liquidarabar Styracistua	10	N	FAC	$\boxed{1}$ 3 - Prevalence Index is $\leq 3.0^{1}$
	145	= Total Cov	rer	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 72.	5 20% of	total cover	29	
Herb Stratum (Plot size: 30 At X3054)	<	Y	FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. CIEtura alnifolia		_/		
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				neight.
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				A
		= Total Cov	/er	
50% of total cover: 2.5	20% of	total cover	·	
Woody Vine Stratum (Plot size: 2054 X 3054)		1	FAC	
1. VILIS VOTUNDIBUID	5	Y	FA(
2. Smilet Votunditurion	5	4	FAC	
3				
4.			raamieria (al-Irreina)	
5.				Hydrophytic
	10	= Total Cov	/er	Vegetation
50% of total cover:		f total cover	0	Present? Yes No
Remarks: (If observed, list morphological adaptations belo		total corei		
Remarks. (ir observed, list morphological adaptations beid	(**).			
<u></u>				

Profile Des	Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)							
Depth	Matrix Color (moist)	% Co	Redox lor (moist)	K Features	Loc ²	Texture	Remarks	
(inches)	Color (moist)					TEALUIE	i ventarită	
1-0	CIGONICS	100				No. etc. 1		
0-8	104R3/1	100				MuckyL		
8-14	104R3/1	100				SCL		
14-20	104R4/2	80 100	1R4/4	20 (M	Clay		
	,					1		
						21 acceltance DI	Dere Lining Mattain	
'Type: C=C	oncentration, D=Dep Indicators: (Applic	etion, RM=Redu	ced Matrix, MS	S=Masked Sand G	rains.		Pore Lining, M=Matrix. Problematic Hydric Soils	:
				low Surface (S8) (RRSTI		(A9) (LRR O)	-
Histoso	i (A1) pipedon (A2)	님	•	inface (S9) (LRR S			(A10) (LRR S)	
	listic (A3)	H		y Mineral (F1) (LR		Reduced V	ertic (F18) (outside MLRA	
	en Sulfide (A4)			d Matrix (F2)	10742	Piedmont F	loodplain Soils (F19) (LRF	
Stratifie	d Layers (A5)		Depleted Mat				Bright Loamy Soils (F20)	
	Bodies (A6) (LRR P		Redox Dark S				53B) Material (TF2)	
- Territoria	ucky Mineral (A7) (LF		Redox Depre	rk Surface (F7)			w Dark Surface (TF12)	
	resence (A8) (LRR U uck (A9) (LRR P, T)	" H	Marl (F10) (L				lain in Remarks)	
	d Below Dark Surfac	e (A11)		hric (F11) (MLRA	151)			
	ark Surface (A12)		Iron-Mangan	ese Masses (F12)	(LRR O, P,	•	s of hydrophytic vegetation	
	Prairie Redox (A16) (I			ice (F13) (LRR P,			hydrology must be presen	it,
	Mucky Mineral (S1) (LRR O, S)		(F17) (MLRA 151			listurbed or problematic.	
	Gleyed Matrix (S4) Redox (S5)	1		rtic (F18) (MLRA 1 podplain Soils (F19				
	d Matrix (S6)					A 149A, 153C, 153	3D)	
	urface (S7) (LRR P, S	s, t, U)						
	Layer (if observed)						/	-
Type:								
Depth (i	nches):					Hydric Soil Pre	sent? Yes No	·
Remarks:								
			1					
				4				
L				Contraction of the second s				



Wetland data point wcmr005f_w facing southwest.



Wetland data point wcmr005f_w facing southeast.

Project/Site: ACP	City/County: Cumberland Sampling Date: 5/13/16 State: NC Sampling Point: WEAR 005e
Applicant/Owner: Dominion	State: NC Sampling Point: WCMr 005em
Investigator(s): ESI-K.Markham, K. Marphrey	Sastian Townshin Panga: NA
Landform (hillslope, terrace, etc.): Depression	attend of the second state
Subregion (LRR or MLRA): LKKT Lat: 51.	94647 Long: -78.73773 Datum: W6584 510 Pes - NWI classification: PEM
Soli Map Onit Name. Doct of Control of Contr	
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? 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 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 Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	Is the Sampled Area within a Wetland? Yes No
Remarks:	
HYDROLOGÝ	
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) Marl Deposits (B1) Saturation (A3) Hydrogen Sulfide (
	heres along Living Roots (C3)
Sediment Deposits (B2)	
	tion in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	
Iron Deposits (B5) Other (Explain in F	Remarks) Distallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	SNA
Surface Water Present? Yes No Depth (inches	
Water Table Present? Yes No Depth (inches	
Saturation Present? Yes <u>Ves</u> No <u>Depth</u> (inches	s): CMERCE Wetland Hydrology Present? Yes No No
Describe Recorded Data (stream gauge, monitoring well, aerial phot	os, previous inspections), if available:
Remarks:	
portions inundated	

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

Sampling Point: WCmr005e.w

Case No. 4	Absolute Dominant In	dicator	Dominance Test worksheet:
, ADDO DESCOL	% Cover Species?		Number of Dominant Species (A)
2	<u> </u>		Total Number of Dominant
3			Species Across All Strata: (B)
4			Percent of Dominant Species 100 90 (A/B)
6			
7			Prevalence Index worksheet:
8			Total % Cover of: Multiply by:
	O = Total Cover		OBL species x 1 =
50% of total cover:			FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 305+X 305+)			FAC species x 3 =
1. none present			FACU species x 4 =
2			UPL species x 5 =
3			Column Totals: (A) (B)
4			Prevalence Index = B/A =
5			Hydrophytic Vegetation Indicators:
6		10	□ 1-Rapid Test for Hydrophytic Vegetation
7			2 - Dominance Test is >50%
8	0 = Total Cover		3 - Prevalence Index is ≤3.0 ¹
50% of total cover:			Problematic Hydrophytic Vegetation ¹ (Explain)
Herb Stratum (Plot size: 3074X3074)	_ 20% of total cover		
1. Andropogdo Virginicas	20 Y F	AC	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Arundinaria gia antea	20 1 5	ACW	Definitions of Four Vegetation Strata:
3. Rubus avoutas	05 VE	AC	
4. Pinus taeda	E N F	AC	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
	designation of the local division of the loc	AC	more in diameter at breast height (DBH), regardless of height.
5. Eurotorium votuntifolium			
6. Grass SP. 7.		INK	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			
11		1	Woody vine – All woody vines greater than 3.28 ft in height.
12			noight.
12.	90 = Total Cover		
50% of total cover: 45	20% of total cover:	1 -1	
Woody Vine Stratum (Plot size: 3074 X 3054)		10	
1. Smilax bonanox	SYE	RC	
		1.0	
2			
3			
4			
5	~		Hydrophytic
2	= Total Cover	1	Vegetation Present? Yes No
50% of total cover: 2.5	20% of total cover:		
Remarks: (If observed, list morphological adaptations below	N).		
			9
		-	

	cription: (Describe	to the dept				or confirm	the absence of	indicators.)
Depth (inches)	Color (moist)	%	Color (moist)	x Features %	Type	Loc ²	Texture	Remarks
(inches)	100R4/2	90	104R4/6	10	(PI	(L	
4-20	1000512	70	10685/8	30	C	AA	C	
1-00	INGR DIL	10	0	JU				
1TVD0: C-C	oncentration, D=Dep	letion PM-	Reduced Matrix M	S=Masked	Sand G	rains	² Location: PL	=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applic	able to all	LRRs, unless othe	rwise note	d.)			r Problematic Hydric Soils ³ :
Histosol			Polyvalue Be			LRR S, T. U		k (A9) (LRR O)
	pipedon (A2)		Thin Dark Su				2 cm Muc	k (A10) (LRR S)
Black H	istic (A3)		Loamy Muck	y Mineral (F1) (LR			Vertic (F18) (outside MLRA 150A,B)
	en Sulfide (A4)		Loamy Gleye		-2)			Floodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)	T 10	Depleted Ma Redox Dark		6)		Anomalou	us Bright Loamy Soils (F20) 1538)
	Bodies (A6) (LRR P ucky Mineral (A7) (LF							nt Material (TF2)
The second se	resence (A8) (LRR U		Redox Depre				U Very Sha	llow Dark Surface (TF12)
1 cm M	uck (A9) (LRR P, T)		Marl (F10) (L	RR U)			Other (E)	plain in Remarks)
	d Below Dark Surfac	e (A11)	Depleted Oc				3	of hudrophylic vessiblies and
	ark Surface (A12)	AL DA 450	A) Umbric Surfa					ors of hydrophytic vegetation and nd hydrology must be present,
1 mm	Prairie Redox (A16) (Mucky Mineral (S1) (I		Delta Ochric					disturbed or problematic.
	Gleyed Matrix (S4)		Reduced Ve					
	Redox (S5)		Piedmont Fl	oodplain Se	oils (F19) (MLRA 14	9A)	
Stripper	d Matrix (S6)		Anomalous I	Bright Loan	ny Soils	(F20) (MLR	A 149A, 153C, 1	53D)
	urface (S7) (LRR P, S						1	
	Layer (if observed)	:						/
Type:	achoa):						Hydric Soil P	resent? Yes No
Depth (ir	iciles):						injune bon Pl	
Remarks:								
	13							
		1						



Wetland data point wcmr005e_w facing west.



Wetland data point wcmr005e_w facing south.

1.0	Contactland 5/13/16
	ounty: Camberland Sampling Date: 5/13/16
Applicant/Owner: <u>Dominica</u>	State: NC Sampling Point: WCMr 005-4
Investigator(s): EST-K. Markham, K. Murphrey Section	in, Township, Range:
Landform (hillslope, terrace, etc.): Flot Local	relief (concave, convex, none): <u><i>FIA+</i></u> Slope (%): <u><i>O</i>-2</u> 582 Long: <u>-78.73747</u> Datum: <u>W6584</u>
Subregion (LRR or MLRA): LRR P Lat: 34.946	Datum: W67 8
Soil Map Unit Name: Duplin Sondy 100m, 0-3% SIOP	
Are climatic / hydrologic conditions on the site typical for this time of year? Y	es No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly distur	
Are Vegetation, Soil, or Hydrology naturally problema	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No Remarks: No	Is the Sampled Area within a Wetland? Yes No
HYDROLOGÝ	
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)	
Saturation (A3) Hydrogen Sulfide Odor (0 Water Marks (B1) Oxidized Rhizospheres a	
Water Marks (B1) Oxidized Rhizospheres a Sediment Deposits (B2) Presence of Reduced Iro	
Drift Deposits (B3)	Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Geomorphic Position (D2)
Iron Deposits (B5)	(S) Shallow Aquitard (D3) 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? Yes No Depth (inches):	<u>H</u>
Water Table Present? Yes No Depth (inches):	
Saturation Present? Yes No Depth (inches):	Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:
Remarks:	

l

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

Sampling Point: WCmr 005.u

Tree Stratum (Plot size $20FX X 30FY$ Scource Stratum Number of Dominant Species (A) 1 $D.OLS$ $ACCC$ IOS FAC That Are OBL, FACW, or FAC: (A) 3 $ACCC$ IOS FAC That Are OBL, FACW, or FAC: (A) 4 $ACCC$ IOS FAC That Are OBL, FACW, or FAC: (A) 5 $ACCC$ IOS FAC That Are OBL, FACW, or FAC: (A) 6 TO_{acc} TO_{acc} TO_{acc} $FACV$ Total % Cover of: Multiply by: 8 TO_{acc} TO_{acc} TO_{acc} TO_{acc} TO_{acc} TO_{acc} TO_{acc} 8 TO_{acc} $TO_$
2 Accor (MSGAM I.O. N FAC 3 I.O. N FAC Total Number of Dominant Species IOU %U (ABB) 5 I.O. Prevalence Index worksheet: IOU %U (ABB) 7. I.O. Total % Cover of: Multiply by: 8 IOU %U (ABB) 7. Iotal % Cover of: Multiply by: 9 Sepcies x1 = 50% of total cover: SA FAC 1 MYSSA Sy Motice AO 2 ACCV VUSCUM AO 3 I.G. GUARA SO FAC 4 I.G. GUARA SO FAC 5 GUE QUARA SO FAC 1.1 Matchine So FAC 1.2 COLORA SO FAC 1.3 Iotal %Cover of: Multiply by: 2.4 Cover SO FAC 3.5 V FAC So FAC 4 Iotal %Cover of: Multipoty Prevalence Index is 30 °
3
4
5
7.
7.
8.
50% of total cover: ΔS_{2} 20% of total cover: \Box FACW species x 2 =
Saning/Shub Stratum (Plot size: $2M \times 2M + 1$) 20% of total cover: $2M \times 2M + 1$ 1. NASSA SylVatico. 20 N FAC 2. ACCY VUCUUM 20 N FAC 3. Liquitamber Styractiflue. 5 N FAC 3. Liquitamber Styractiflue. 5 N FAC 4. Title glabra ' 300 N FAC 10 N FAC 4. Title glabra ' 300 N FAC 10 N FAC 6. MACCIALUM Commods in Model cover: $350 \times 760 \times 100$ 10 N FAC 7. Title contraction Commods in N FAC 11 - Rapid Test for Hydrophylic Vegetation Indicators: 1. NACCIALUM Commods in N FAC 12 - Dominance Test is >50% 8
Sating/Strue Strutum (Plot size: Introduct)) 20 N FAC 1. MSSS SylVetice 20 N FAC 3. Liquinamber Struteciffue; S N FAC 3. Liquinamber Struteciffue; S N FAC 4. Liquinamber Struteciffue; S N FAC 5. Querted S N FAC 6. Maccine Market 15 N 7. Lies correctiffue; S N FAC 8
1. $(M > D > M)$ $M > M$ $M > M$ $M > M$ $M > M > M$ 2. $A < C \vee M > M > M > M > M$ $M > M > M > M > M$ $Column Totals: (A) (A) (B)$ 4. $M > M > M > M > M > M > M > M > M > M $
2 Image: Column Totals: (A) (B) 3 Image: Column Totals: (A) (B) 4 Image: Column Totals: (A) (B) 5 Operations: Image: Column Totals: (A) (B) 6 Image: Column Totals: (A) (B) Prevalence Index = B/A =
3. Current reaction of the second
5. QLEEY (QS A ACA DOS UM 10 N EAC 8. Maccini (IM) Carry mbosum 15 N EAC W N FAC W Hydrophytic Vegetation Indicators: 1. Construction 10 N EAC W N FAC W Itest for Hydrophytic Vegetation N FAC W Itest for Hydrophytic Vegetation 1. Construction 10 N FAC W 8
a. Array bosum 15 N Array bosum 15 N Array bosum 12 Rapid Test for Hydrophytic Vegetation B. I Rapid Test for Hydrophytic Vegetation I2 - Dominance Test is >50% 3 - Prevalence Index is \$3.0° I2 - Dominance Test is >50% B. I I Solution Solution I2 - Dominance Test is >50% B. I I Solution I2 - Dominance Test is >50% I2 - Dominance Test is >50% B. I I Solution I2 - Dominance Test is >50% I2 - Dominance Test is >50% B. I I I Solution I2 - Dominance Test is >50% I2 - Dominance Test is >50% B. I I I I I I2 - Dominance Test is >50% I2 - Dominance Test is >50% I2 - Dominance Test is >50% of total cover: I2 - Dominance Test is >50% of total cover: I2 - Dominance Test is >50% of total cover: I2 - Dominance Test is >50% of total cover: I2 - Dominance Test is >50% of total cover: I2 - Dominance Test is >50% of total cover: I2 - Dominance Test is >50% of total cover: I2 - Dominance Test is >50% of total cover: I2 - Dominance Test is >50% of total cover: I2 - Dominance Test is >50% of total cover: I2 - Dominance Te
3. Image: Statum Plot is in Provide Vegetation Vegeta
8. If S = Total Cover 50% of total cover: 57.5 20% of total cover: 23 Herb Stratum (Plot size: 30. 1. And C Ple Servet 2. 3. 3. 3. 4. 50% of total cover: 3. 3. 4. 50% of total cover: 3. 50% of total cover: 2. 50% of total cover: 2.0% of total cover: 50% of total cover: 2.0% of total cover:
If S = Total Cover 50% of total cover: 50% of total cover: 50% of total cover: 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 50% of total cover: 22. 3. 3. 4. 5. 6. 6. 6. 7. 8. 9. 10. 11. 12. 50% of total cover: 20%
50% of total cover:
50% of total cover: 51.5 20% of total cover: 20 Herb Stratum (Plot size: 20.44.X30.44.) 'Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 2.
1. <u>Mare</u> <u>PleSeAt</u> be present, unless disturbed or problematic. 2.
2.
3.
4.
5.
6.
7.
8.
9.
10. Woody vine - All woody vines greater than 3.28 ft in 11. = Total Cover 12. = Total Cover 50% of total cover: 20% of total cover: Woody Vine Stratum (Plot size: $3(A + 3GSE)$) 5 1. Viet is contraction of its cont
$11. _ _ = Total Cover$ $12. _ _ = Total Cover$ $50\% \text{ of total cover: } 20\% \text{ of total cover: } _ _$ $Woody Vine Stratum (Plot size: 3A × 30FF)$ $1. Vi + i S rotan od is 5 / FAC$
12 = Total Cover 50% of total cover: 20% of total cover: Woody Vine Stratum (Plot size: $3041\times30FF$) 1. $1/1+15$ rotanovisor 5 / FAC
50% of total cover: 20% of total cover: <u>Woody Vine Stratum</u> (Plot size: 3/41×30/FF) 1. <u>VITIS ROTAGODIFOLION</u> 5 / FAC
50% of total cover: 20% of total cover: <u>Woody Vine Stratum</u> (Plot size: 3/41×30/FF) 1. <u>VITIS ROTAGODIFOLION</u> 5 / FAC
Woody Vine Stratum (Plot size: BOAT XBOFF) 1. VITIS ROTADAISONA 5 / FAC
1. VITIS rotandiquia 5 7 FAC
2.
3
4
5 Hydrophytic
S = Total Cover Vegetation
50% of total cover: _2. 5_ 20% of total cover: Present? Yes No
Remarks: (If observed, list morphological adaptations below).
Remarks. (Il observed, list morphological adaptations below).

		o the dep	th needed to docum			or confirm	n the absence o	f indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	Features %	Type'	Loc ²	Texture	Remarks
()-)	104R4/2	100					FSL	
2-14	104R 5/2	80	104R5/4	20	C	M	LC	
14-20	INCR 6/2		104R 5/6	20		1		
17 20	DURGIA	80	1041310	20		101		
¹ Type: C=C	oncentration, D=Depl	letion, RM	=Reduced Matrix, MS	S=Masked	Sand G	rains.		PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Application)	able to all	LRRs, unless other					or Problematic Hydric Soils ³ :
Histosol			Polyvalue Be					uck (A9) (LRR O)
	pipedon (A2)		Thin Dark Su Loamy Muck					uck (A10) (LRR S) d Vertic (F18) (outside MLRA 150A,B)
	istic (A3) en Sulfide (A4)		Loamy Gleye			(0)		nt Floodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)		Depleted Mai		/			ous Bright Loamy Soils (F20)
	Bodies (A6) (LRR P	, T, U)	Redox Dark		6)			A 153B)
5 cm M	ucky Mineral (A7) (LF	RR P, T, U						rent Material (TF2)
	resence (A8) (LRR U)	Redox Depre		8)			nallow Dark Surface (TF12) Explain in Remarks)
	uck (A9) (LRR P, T) d Below Dark Surface	e (A11)	Marl (F10) (L Depleted Oct		(MLRA	(51)		-хрантиткенакај
	ark Surface (A12)		Iron-Mangan				,T) ³ Indica	ators of hydrophytic vegetation and
	rairie Redox (A16) (M	ALRA 150					wetla	and hydrology must be present,
	Aucky Mineral (S1) (L	.RR O, S)						ss disturbed or problematic.
	Gleyed Matrix (S4)		Reduced Ver					
	Redox (S5)		Piedmont Flo				RA 149A, 153C,	153D)
	d Matrix (S6) Irface (S7) (LRR P, S	5. T. U)		Singhit Loai	1119 00113	(1 20) (1112	10, 1000,	,
	Layer (if observed):							-
Type:								
Depth (ir	ches):						Hydric Soil	Present? Yes No
Remarks:								
	21							
1								
						-		



Upland data point wcmr005_u facing northwest.



Upland data point wcmr005_u facing northeast.

A - C	0	slead 5/13/16
Project/Site: ACF	City/County: Camber	State: NC Sampling Point: WCmr 004e-W
Applicant/Owner: Dominion		State: NC Sampling Point: WCMr 004E-W
Investigator(s) ESI-K.MAVKNom K.MUVPhrey	Section, Township, Range: _	NA
Landform (hillslope, terrace, etc.): Deplession	Local relief (concave, convex	(, none): <u>(On Cave</u> Slope (%): <u>O-2</u>
Subregion (LRR or MLRA): LRR [LRR [Lat: 57.	14487 Long:	-78.73772 Datum 16584
Soil Map Unit Name: Dunbar 1080		NWI classification: PEM
Are climatic / hydrologic conditions on the site typical for this time of ye		(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Norm	al Circumstances" present? Yes No
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 locat	ions, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No Remarks: Yes No	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 apply)		Surface Soil Cracks (B6)
Surface Water (A1)		Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)		Drainage Pattems (B10) Moss Trim Lines (B16)
Water Marks (B1) Hydrogen Sulfide Oxidized Rhizosph	Deres along Living Roots (C3)	
Sediment Deposits (B2)		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)
Vinundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)		FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U)
Field Observations:		
Surface Water Present? Yes No Depth (inches	s): NA	
Water Table Present? Yes V No Depth (inches	5): 16	
Saturation Present? Yes V No Depth (inches	s): <u>SHIFACE</u> Wetland	Hydrology Present? Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial phot	os, previous inspections), if a	vailable:
Remarks:		
flooding adjacent to data f	point, 4"	

Sampling Point: WCmr004e.W

Decivoach	Absolute Dominant In		Dominance Test worksheet:
Tree Stratum (Plot size: 30Ft X 30Ft) 1. NOGE Present	<u>% Cover</u> <u>Species?</u>		Number of Dominant Species (A)
2 3			Total Number of Dominant Species Across All Strata: (B)
4			Percent of Dominant Species 10090 (A/B)
6			
7			Prevalence Index worksheet:
8			Total % Cover of: Multiply by:
	= Total Cover		OBL species x 1 =
50% of total cover:			FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 305 X 305)			FAC species x 3 =
			FACU species x 4 =
			UPL species x 5 =
2			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 ≤3.0 ¹
	= Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of total cover:		
Herb Stratum (Plot size: 3064 X 3084)			¹ Indicators of hydric soil and wetland hydrology must
1. RULAIS argutus	20 Y F	AC	be present, unless disturbed or problematic.
2. Avundinaria gigentea	40 Y F	ACW	Definitions of Four Vegetation Strata:
3. Saccharan giganteum	15 N F	ACW	_
4. Pinns toedo	2 N.F	AC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5. Dichanthelium scoparium		ACW	height.
	and the second s		
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 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			
	87 = Total Cover		
50% of total cover: 43.	5 20% of total cover:	7.4	
Woody Vine Stratum (Plot size 305+X 305+)			
1. Smilax rotundifolia	5 Y F	AC	
2 Vitis Mtundifolia	SVE	AC	
3			
4			
5			Hydrophytic
	= Total Cover	0	Vegetation Present? Yes No No
50% of total cover: 5	20% of total cover:	2	
Remarks: (If observed, list morphological adaptations belo	w).		
			·

SOIL

Profile Desc	cription: (Describe	to the depth				or confirm	n the absence of	indicators.)	
Depth	Matrix		Redo Color (moist)	ox Features %	s _Type'	Loc ²	Texture	Remar	ks
(inches)	Color (moist)		Color (moist)	70	ype.	LUC	Sil+L	Reliidi	
0-6	104R3/1		NOU L	-		A.O.			
6-20	2.514/2	<u>45 (</u>	J4R4/6	2	(141	Clay		
						-			
			0'						
	·				-				
									lately .
¹ Type: C=C	oncentration, D=Dep	letion, RM=F	Reduced Matrix, M	S=Masked	I Sand G	ains.		L=Pore Lining, M=N	
	Indicators: (Applic	able to all L						r Problematic Hyd	and doils :
Histoso			Polyvalue Be					ck (A9) (LRR O) ck (A10) (LRR S)	
and the second se	pipedon (A2)		Thin Dark So Loamy Muck						ide MLRA 150A,B)
	listic (A3) en Sulfide (A4)		Loamy Gley			1			F19) (LRR P, S, T)
	ed Layers (A5)		Depleted Ma		/		Anomalo	us Bright Loamy So	
Organic	Bodies (A6) (LRR P		Redox Dark	Surface (F			(MLRA		
5 cm M	ucky Mineral (A7) (LF	RR P, T, U)	Depleted Da					ent Material (TF2)	(TE10)
	resence (A8) (LRR U	J)	Redox Depr		8)			allow Dark Surface xplain in Remarks)	
	uck (A9) (LRR P, T)	Q (A11)	Marl (F10) (Depleted Oc		(MIRA 4	51)	Uner (E.	opiani in remarks)	
	ed Below Dark Surfac Dark Surface (A12)	G (ATT)	Iron-Mangar		•	-	,T) ³ Indicat	ors of hydrophytic	vegetation and
	Prairie Redox (A16) (I	MLRA 150A)	and the second se				wetlan	nd hydrology must	be present,
	Mucky Mineral (S1) (Delta Ochric	c (F17) (ML	LRA 151)			s disturbed or prob	lematic.
Sandy	Gleyed Matrix (S4)		Reduced Ve	ertic (F18)	(MLRA 1	50A, 150B			
Sandy I	Redox (S5)		Piedmont Fl					5201	
	d Matrix (S6)	5 7 10	Anomalous	Bright Loa	my Soils	(F20) (MLI	RA 149A, 153C, 1	1330)	
	urface (S7) (LRR P, S Layer (if observed)								
Type:	-ayer (il observed)								
	nches):						Hydric Soil P	resent? Yes	No
Remarks:									
Cernal NS.									
1									
1									
1									
1									
1									



Wetland data point wcmr004e_w facing southwest.



Wetland data point wcmr004e_w facing southeast.

Applicant/Owner: Dominion Investigator(s): ESS-K.MarKham,K.Murphrey Section Landform (hillslope, terrace, etc.): hillslope Subregion (LRR or MLRA): LRR P Lat: 34.944 Soil Map Unit Name: Dunbar Joan	relief (concave, convex, none): CONVEX Slope (%): 2-5 97 Long: 78. 13771 Datum: W65.84 NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of year? Y Are Vegetation, Soil, or Hydrology significantly distur	1
Are Vegetation, Soil, or Hydrology significantly distant	
SUMMARY OF FINDINGS – Attach site map showing san	
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No Remarks: No Ves	Is the Sampled Area within a Wetland? Yes No
HYDROLOGŸ	
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) Aquatic Fauna (B13) High Water Table (A2) Marl Deposits (B15) (LRI Saturation (A3) Hydrogen Sulfide Odor (C Water Marks (B1) Oxidized Rhizospheres a Sediment Deposits (B2) Presence of Reduced Iron Drift Deposits (B3) Recent Iron Reduction in Algal Mat or Crust (B4) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)	C1) Moss Trim Lines (B16) along Living Roots (C3) Dry-Season Water Table (C2) on (C4) Crayfish Burrows (C8) a Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, present)	Wetland Hydrology Present? Yes No
Remarks:	•

Sampling Point: WCmv004-u

224.42-6	Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: 3064 X 30F4)	% Cover			Number of Dominant Species That Are OBL, FACW, or FAC:	2	. (A)
3				Total Number of Dominant Species Across All Strata:	2	(B)
4 5				Percent of Dominant Species That Are OBL, FACW, or FAC:	100	. (A/B)
6				Develope Index workshopst		
7				Prevalence Index worksheet: Total % Cover of:	Multiply by:	
8					Multiply by:	
	0	= Total Co	ver	OBL species x 1		
50% of total cover:	20% of	total cover		FACW species x 2		
Sapling/Shrub Stratum (Plot size: 308+X3054)				FAC species x 3		
1				FACU species x 4		
2				UPL species x 5		
3				Column Totals: (A)		- ^(B)
4				Prevalence Index = B/A =	- 46	
5				Hydrophytic Vegetation Indicat		
6				1 - Rapid Test for Hydrophyti		
7				2 - Dominance Test is >50%		
8				3 - Prevalence Index is ≤3.0 ¹		
and a second		= Total Co	ver	Problematic Hydrophytic Veg		ain)
50% of total cover:	20% of	total cover				
Herb Stratum (Plot size: 3054 X3054)				¹ Indicators of hydric soil and wetla	and hydrology	must
1. RUbus argutas	30	Y	FAC	be present, unless disturbed or p	roblematic.	
2 Piaus taeda	2	4	FAC	Definitions of Four Vegetation	Strata:	
3. Dicharthelium scoparium	10	N	FACW	The Monda starts such dias	ines 3 in /7 6	
4. Andropogon vivainitas	15	Y	FAC	Tree – Woody plants, excluding v more in diameter at breast height	(DBH), regard	less of
5. Packera anonyma	2	N	FACU	height.		
6 trundinavia gigonzea	2	N	FACW	Sapling/Shrub - Woody plants,	excluding vine	s less
7. Ilex glabra	2	N	FACW	than 3 in. DBH and greater than 3	3.28 ft (1 m) ta	1.
8. Muhlenbergia capillaris	5	N	FAC			ardloss
9. Eupatorium rotundi folium	2	N	FAC	Herb – All herbaceous (non-wood of size, and woody plants less that	an 3.28 ft tall.	aluless
10. Verbesina occidentalis	4	N	FACH			
and the second				Woody vine – All woody vines gr height.	reater than 3.2	8 ft in
11				neight.		
12.	74	= Total Co				
50% of total cover: <u>37</u>	20% of	total cover				
Woody Vine Stratum (Plot size: 3054 X3054)	20 % 01	total cover				
, NON & PRESERVE						
2						
		-				
4				5 mm mm		
5	0			Hydrophytic Vegetation	_	
	100 B 100 B 100	= Total Co		Present? Yes	No	
50% of total cover:		total cove				
Remarks: (If observed, list morphological adaptations belo						
Reindeer moss is	Pre	Sen-	A topo ()			

SOIL

Sampling Point: WCmr004-u

Profile Desc	ription: (Describe	to the depth			or or confirm	n the absence of	of indicators.)
Depth (inches)	Matrix Color (moist)	%	Redo: Color (moist)	× Features % Type	e Loc ²	Texture	Remarks
(inches)	2.644/2	100				51	
11 1/	10:0110	100 -				4/1	
T-10	IUUK M/D		5464/6	E	11/1	Clay	
16-20	104K416	95 2	1. 296446	5 6	XVI	Clay	
					-		
17	oncentration, D=Dep	letion DM-D	Reduced Matrix M	S=Masked Sand	Grains	² Location:	PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applic	able to all L	RRs, unless other	rwise noted.)			for Problematic Hydric Soils ³ :
Histoso				low Surface (S8) (LRR S, T,		luck (A9) (LRR O)
	pipedon (A2)		Thin Dark Su	Inface (S9) (LRR	S, T, U)	2 cm N	luck (A10) (LRR S)
	istic (A3)			y Mineral (F1) (I	.RR O)	Reduci	ed Vertic (F18) (outside MLRA 150A,B
	en Sulfide (A4)			ed Matrix (F2)			ont Floodplain Soils (F19) (LRR P, S, T) alous Bright Loamy Soils (F20)
	d Layers (A5)	7 10	Depleted Ma Redox Dark				RA 153B)
	Bodies (A6) (LRR P ucky Mineral (A7) (LI			rk Surface (F6)			arent Material (TF2)
	resence (A8) (LRR U		Redox Depre			Very S	hallow Dark Surface (TF12)
	uck (A9) (LRR P, T)		Marl (F10) (L	.RR U)		U Other	(Explain in Remarks)
	d Below Dark Surfac	e (A11)		hric (F11) (MLR		31	storn of hydrophydia vagatation and
	ark Surface (A12)			ese Masses (F1			ators of hydrophytic vegetation and tland hydrology must be present,
	Prairie Redox (A16) (ace (F13) (LRR (F17) (MLRA 1			ess disturbed or problematic.
	Mucky Mineral (S1) (Gleyed Matrix (S4)	LAN U, aj		rtic (F18) (MLRA			
	Redox (S5)		Piedmont Fle	oodplain Soils (F	19) (MLRA	149A)	
	d Matrix (S6)			Bright Loamy So			, 153D)
	urface (S7) (LRR P, S						
100	Layer (if observed)	:					
Туре:						Hud-1- 0-1	Present? Yes No
	nches):					Hydric Soil	I Present? Yes No
Remarks:							

.



Upland data point wcmr004_u facing north.



Upland data point wcmr004_u facing east.

Project/Site: City/C	ounty: Cumberland Sampling Date: 4-11-16
Applicant/Owner: Dominion	State: NC Sampling Point: Wcmo026e-W
Investigator(s): <u>EST (L. Roper</u> , W. Veryhan) Section Landform (hillslope, terrace, etc.): <u>depression</u> Local	silief (concerns convex concerns): (COCCerts Slope (%): O-5
Landform (hillslope, terrace, etc.): <u>depression</u> Local	relief (concave, convex, none) costatoo cope (x)
Subregion (LRR or MLRA): <u>LRR</u> Lat: <u>34.94610</u>	
	NWI classification: PER
Are climatic / hydrologic conditions on the site typical for this time of year? Y	es No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly distur	
Are Vegetation, Soil, or Hydrology naturally problema	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	Is the Sampled Area within a Wetland? Yes <u>V</u> No
Remarks: power me easement	
abnormally dry conditions	
HYDROLOGÝ	
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) Marl Deposits (B15) (LRF	R U) Drainage Patterns (B10)
Saturation (A3)	
Water Marks (B1) Qxidized Rhizospheres a	
Sediment Deposits (B2)	
Drift Deposits (B3)	한 성장은 가 것 집에 가 안 같은 것 같아요. 그는 것 같아요. 이 것 같아요. 이 것 같아요. 이 집에 가지 않는 것 같아요. 이 집에 있는 것 같아요. 이 집에 가지 않는 것 같아요. 이 집에 가 있는 것 같아요. 이 집에 있는 것 이 집에 있는 것 같아요. 이 집에 있는 것 같이 집에 있는 것 같아요. 이 집에 있는 것 같이 집에 있는 것 같이 집이 집에 있는 것 같아요. 이 집에 있는 것 같이 집에 있는 것 같이 집에 있는 것
Algal Mat or Crust (B4)	(D2) Geomorphic Position (D2)
Iron Deposits (B5) Under (Explain in Remark	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	10
Water Table Present? Yes No / Depth (inches): > 2	0
Saturation Present? Yes No Depth (inches):	5 Wetland Hydrology Present? Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:
Describe Recorded Data (stream gauge, monitoring weil, dena protos, pro	
Remarks:	

Sampling Point: wemo 026e-w

	Absolute	Dominant	Indicator	Dominance Test worksheet:	alexa tent
Tree Stratum (Plot size: 30ft + 30ft)		Species?	the state of the second state of the second state of the state of the second state of	Number of Dominant Species	
The second s	Comparison of the state of	The Contract of the Case of	Greensburg galens hirds		(A)
1. none					
2				Total Number of Dominant	
3					(B)
4.			STORE STREET, STORE		
The second s	CARL MARKED MARK		AND	Percent of Dominant Species	(A/D)
5			THE STREET STORES	That Are OBL, FACW, or FAC:OO	(A/B)
6		HAR HARRING		Prevalence Index worksheet:	A DECKIPTION
7					
8.			S. C. S. C. S. C. S.	Total % Cover of: Multiply by:	-
b ,	0	= Total Cov	and the second	OBL species x 1 =	
	in the strategy with the property			FACW species x 2 =	1111
50% of total cover:	20% of	total cover:			C 100 0 00000
Sapling/Shrub Stratum (Plot size: 30f4 x 30f4)				FAC species x 3 =	14010343345
The second s				FACU species x 4 =	
				UPL species x 5 =	10.00
2				Column Totals: (A)	
3			A DECEMBER OF		. (-)
4.			NEW THE REAL	Prevalence Index = B/A =	
and the second	DOM: NY DRAMON	Landers and the second second second	No characteriante anto Sil-	A. S. T. P. T. S. M.	-01/04/24
5				Hydrophytic Vegetation Indicators:	
6		and the second second	A LONGING	1 - Rapid Test for Hydrophytic Vegetation	
7			and the second	2 - Dominance Test is >50%	
8.				\square 3 - Prevalence Index is $\leq 3.0^1$	
	and a subject to the second	= Total Cov			
	a second a classification of			Problematic Hydrophytic Vegetation ¹ (Explain	1)
50% of total cover:	20% of	total cover:	alar a Chai		391193
Herb Stratum (Plot size: 30Ft x 30Ft)				¹ Indicators of hydric soil and wetland hydrology m	ust
1. Juncus effusus	60	Ves	FACIN	be present, unless disturbed or problematic.	
A Francisco	15	no	FAC	Definitions of Four Vegetation Strata:	
2. Rubus argutas		and the second of a local second second		Definitions of Pour Vegetation Strata.	
3. Acer rubium	10	no	FAC	Tree - Woody plants, excluding vines, 3 in. (7.6 c	m) or
4				more in diameter at breast height (DBH), regardle	ess of
5.				height.	
A 1997					
6				Sapling/Shrub - Woody plants, excluding vines,	less
7	<u>, 2012, 0, 2015</u>	Standa data	Calles and	than 3 in. DBH and greater than 3.28 ft (1 m) tall.	
8.		No		Herb - All herbaceous (non-woody) plants, regard	dless
9				of size, and woody plants less than 3.28 ft tall.	
10	Service 10000	a company of Adding to the St	And Transferry Barry	Woody vine - All woody vines greater than 3.28	ft in
11	1.1.1.1.1.1.1.1.1			height.	
12					
	RE	= Total Cov	er	and the second state of th	VIAL ALTE
50% of total cover:	20% of	total cover:			
Woody Vine Stratum (Plot size: 30f+ + 30f+)					
1. none			and shall		
And the second			C. C. C. C.		
2			The second second		
3					
4.	N. S. LANDAR	Constanting.			
			CHONE AND	Undersphilie	
5	6		The second second	Hydrophytic	
	The Participant of the States	= Total Cov		Vegetation Present? Yes Vo No	
50% of total cover:	20% o	f total cover			
Remarks: (If observed, list morphological adaptations belo	and the second second	Vie gestion of	111111111111		Second Second
remarka. (ii ubaci veu, nai morphological adaptations beit					
				and a second second second sector as the first of the second second second second second second second second s	

SOIL

Sampling Point: wema 026 e-w

Profile Desc	ription: (Describe	to the depth	neede	d to docun	nent the i	ndicator	or confirm	the absence o	f indicators.)
Depth	Matrix			Redo	x Features	5			
(inches)	Color (moist)		Color	(moist)	%	Type'	_Loc ²	Texture _	Remarks
0-8	10yr 3/1	100			-			SL	
8-20	10yr 3/1	97	lour	4/4	3	C	M	SL	
						AUT ASIC			
		THE PARTY OF		A SALES	Caller ag	APPS MILLER	125		
		-	electro un Pletto inte		1000 2010			793964739655-00.1	
		-			A CAR ON RAIL	-			
				Contra de Carlos	-		-		
¹ Type: C=Co	ncentration, D=Dep	letion, RM=R	educed	Matrix, MS	S=Masked	Sand Gra	ains.	² Location: F	PL=Pore Lining, M=Matrix. or Problematic Hydric Soils ³ :
	ndicators: (Applic	able to all LR							
Histosol				olyvalue Be nin Dark Su			RR S, T, U)		uck (A9) (LRR O) uck (A10) (LRR S)
Black His	ipedon (A2)			amy Muck					d Vertic (F18) (outside MLRA 150A,B)
	n Sulfide (A4)			amy Gleye					nt Floodplain Soils (F19) (LRR P, S, T)
	Layers (A5)			epleted Ma				and the second state of th	ous Bright Loamy Soils (F20)
	Bodies (A6) (LRR P		and the second	edox Dark	the result of the state of the state				A 153B)
	cky Mineral (A7) (LI			epleted Da					rent Material (TF2) nallow Dark Surface (TF12)
 A Second Device prove statistics (1) 	esence (A8) (LRR L ck (A9) (LRR P, T)	")	-	edox Depre arl (F10) (L		0)			Explain in Remarks)
	Below Dark Surfac	e (A11)		epleted Oc		(MLRA 1	51)		
10. Second device and the second s	rk Surface (A12)	- (LRR O, P,		ators of hydrophytic vegetation and
 A second Size Prohibit detected (2015) 	airie Redox (A16) (I			mbric Surfa			; U)		and hydrology must be present,
	ucky Mineral (S1) (LRR O, S)		elta Ochric				unle	ss disturbed or problematic.
	edox (S5)						OA, 150B) (MLRA 14	94)	
V. S. Branne, Mathematical Control Mathematical Control	Matrix (S6)							A 149A, 153C,	153D)
	face (S7) (LRR P,	5, T, U)							
	ayer (if observed)			Constant Series					
Type:		Sec. Same							
Depth (in	ches):							Hydric Soil	Present? Yes <u>No</u>
Remarks:				N. W. M.		898 N.A.	2010		
10000000									
1000000000									



Wetland data point wcmo026e_w facing east.



Wetland data point wcmo026e_w facing north.

Photo Sheet 1 of 3

Project/Site: <u>ACP</u> City/C	County: Cumberland Sampling Date: 4-11-16
Applicant/Owner: DOCOOD	State: NC Sampling Point: WCM6020104
Investigator(s): ESI (W. Vaughen, L. Roper) Secti	ion. Township, Range: None
Landform (hillslope, terrace, etc.): depression Loca Subregion (LRR or MLRA): LPPT Lat: 34,9405 Soil Map Unit Name: Grantham Joam	I relief (concave, convex, none): Concave Slope (%): O-3 58 Long: -78.73767 Datum: W6584 NWI classification:
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	
Are Vegetation, Soil, or Hydrology naturally problem	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sar	npling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	Is the Sampled Area within a Wetland? Yes No
Remarks: abnormally dry conditions NCWAM: Pine Plat	
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) High Water Table (A2) Marl Deposits (B15) (LR)	
Saturation (A3) Hydrogen Sulfide Odor Water Marks (B1) Oxidized Rhizospheres	along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2)	
Drift Deposits (B3)	
Algal Mat or Crust (B4)	승규는 것을 것 같아요. 그는 것 같아요. 그는 것 같아요. 그는 것 같아요. 이야가 실망 방법에 있는 것은 것을 가 물었는 것 같아요. 그는 것 같아요. 그는 것 같아요. 그는 것 같아요. 그는 것
Iron Deposits (B5)	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U)
Water-Stained Leaves (B9)	
Field Observations: Surface Water Present? Yes No X Depth (inches):	20
Surface Water Present? Yes No _X Depth (inches): _/ Water Table Present? Yes No _X Depth (inches): _/	
Saturation Present? Yes V No Depth (inches): Saturation Present?	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pr	evious inspections), il available.
Remarks:	

Sampling Point: wcmo026 f.w

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30ft + 36ft)	And the party of the second second second	Species?	Status	Number of Dominant Species
1. Pinus tacda	20	yes	FAC	That Are OBL, FACW, or FAC: (A)
2. Acer rubrum		1		T-t-1N-mbased Demiserat
3.				Total Number of Dominant Species Across All Strata:(B)
2. 使用于一种中心中心。如果一种生活、他们的一种生活的、你们的生活和我们的现在时,在这些是我们都不能在一种生活的。"他们的是我们的问题。			N HERRICK	
4			ALCONTRACTOR AND	Percent of Dominant Species /00 (A/B)
5	CONTRACTOR OF STATES			That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7	and the second			Total % Cover of: Multiply by:
8	- Contraction	Section 22	A State of the	OBL species x 1 =
	30	= Total Cov	/er	The arrival of the and a first state of the second of the second state of the second s
50% of total cover:/S	20% of	total cover	: 6	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30ft x 30ft)				FAC species x 3 =
1. Accr rubrum	15	ves	FAC	FACU species x 4 =
o The abo	10	Ves	FAC	UPL species x 5 =
2. Ilex opaca	-10-	no	FACW	Column Totals: (A) (B)
3. Magnolia Virginiana			FACU	
4		A MARINE ANALYSI	A Street Charles	Prevalence Index = B/A =
5	a line to make	A SAMANAS		Hydrophytic Vegetation Indicators:
6.			Sales and	1, Rapid Test for Hydrophytic Vegetation
7.			FILS STATE	2 - Dominance Test is >50%
8.	- California (Sel			3 - Prevalence Index is $\leq 3.0^{1}$
u	30	= Total Cov	ler	
50% of total cover:/5	And and a second s		Constant of the second s	Problematic Hydrophytic Vegetation ¹ (Explain)
	20% 01	total cover		
Herb Stratum (Plot size: 30ft , 30ft)	1-		. 01	¹ Indicators of hydric soil and wetland hydrology must
1. Woodword: a arcolata	10	yes	OBL	be present, unless disturbed or problematic.
2. OSmundastrum cinnamomeum	S	no	FACW	Definitions of Four Vegetation Strata:
3. Juncus effasus	10	yes	OBL	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4		'		more in diameter at breast height (DBH), regardless of
		Constanting		height.
5				Continue Charles Mandu planta ovaludina vinos Jose
6				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7	Contractor of the			
8				Herb - All herbaceous (non-woody) plants, regardless
9	-	- AND AND AND		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		1.5.1.5.10		
	25	= Total Co		
50% of total cover: _ [2]			· · · · · · · · · · · · · · · · · · ·	
	20% 0	total cover		
Woody Vine Stratum (Plot size: 30PL x 30PL)			TAN	
1. Smilax lawrifolia	20	Yes	1-AUN	
2. Witis rotudifolia	10	yes	1-AC	
3.	GARS STAN			
4			S. Maria	
			THE PARTY OF	11. desetedia
D	2-			Hydrophytic Vegetation
1-	China & China and State	= Total Co		Present? Yes No
50% of total cover: 15	20% o	f total cover		
Remarks: (If observed, list morphological adaptations belo	w).			
		the Association	Stand Land	

001

Sampling Point: wcmo026f-w

Itess Color Ittostri a Color Ittostri a The itess itess 2D 2.5 y 3/1 97 /Oyr 4/4 3 C M itess 2D 2.5 y 3/1 97 /Oyr 4/4 3 C M itess 2D 2.5 y 3/1 97 /Oyr 4/4 3 C M itess 2D 2.5 y 3/1 97 /Oyr 4/4 3 C M ites 2D 2.5 y 3/1 97 /Oyr 4/4 3 C M ites 2D 2.5 y 3/1 97 /Oyr 4/4 3 C M ites 2D 2.5 y 3/1 97 /Oyr 4/4 3 C M ites 2D 2D Ites	Intest 0000 (mossi) a 100 r 110 c 100 r	epth ches)	Matrix Color (moist)	%	Redox Color (moist)	K Feature: %	sType1	Loc ²	Texture	Remarks
Iric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Polyvalue Below Surface (S8) (LRR S, T, U) I cm Muck (A9) (LRR O) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR O) 2 cm Muck (A10) (LRR S) Black Histic (A3) Loamy Gleyed Matrix (F2) Reduced Vertic (F18) (outside MLRA 150A Organic Bodies (A6) (LRR P, T, U) Depleted Matrix (F3) Mard (F10) (LRR U) Muck (A9) (LRR P, T, U) Redox Dark Surface (F7) Red Parent Material (TF2) Muck (A9) (LRR P, T, U) Depleted Dark Surface (F7) Red Parent Material (TF2) Muck (A9) (LRR P, T) Marl (F10) (LRR U) Red Parent Material (TF2) Very Shallow Dark Surface (A11) Iron-Manganese Masses (F12) (LRR O, P, T) Stratifice Ch12 (LRR O, P, T) Depleted Below Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P, T) Sindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) (LRR O, S) Piedmont Floodplain Soils (F19) (MLRA 149A) stirteitve Layer (if observed): Type:	Iric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Polyvalue Below Surface (S8) (LRR S, T, U) I cm Muck (A9) (LRR O) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR O) 2 cm Muck (A10) (LRR S) Black Histic (A3) Loamy Gleyed Matrix (F2) Reduced Vertic (F18) (outside MLRA 150A Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) (MLRA 153B) Scm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7) Red Parent Material (TF2) Muck (A9) (LRR P, T) Marl (F10) (LRR U) Red Parent Material (TF2) Very Shallow Dark Surface (A11) Iron-Manganese Masses (F12) (LRR O, P, T) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) (LRR O, S) Piedmont Floodplain Soils (F19) (MLRA 150A, 150B) Piedmont Floodplain Soils (F20) (MLRA 149A) Stripped Matrix (S6) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Piedmont Floodplain Soils (F20) (MLRA 149A, 153C, 153D) Hydric Soil Present? Yes No				to back as the same fact some weather has been a set of the set	Construction of the second second	Contractor activities and	of a star in the star of the star of the star	1	
Histic Eipedon (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 Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Reduced Vertic (F18) (outside MLRA 150A Organic Bodies (A6) (LRR P, T, U) Depleted Matrix (F3) Anomalous Bright Loamy Soils (F20) Stratified Layers (A5) Depleted Matrix (F3) Mark (F3) Organic Bodies (A6) (LRR P, T, U) Depleted Dark Surface (F6) Anomalous Bright Loamy Soils (F20) Stratified Layers (A8) Depleted Dark Surface (F7) Redox Depressions (F8) Red Parent Material (TF2) Mark (F10) (LRR V) Depleted Ochric (F11) (MLRA 151) Depleted Ochric (F11) (MLRA 151) Other (Explain in Remarks) Depleted Below Dark Surface (A12) Inon-Manganese Masses (F12) (LRR O, P, T) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) (LRR O, S) Belta Ochric (F13) (MLRA 150A, 150B) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Redox (S5) Piedmont Floodplain Soils (F20) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A) Sandy Redox (S5) Piedmont Floodplain Soils (F20) (MLRA 149A), Anomalous Bright L	Histic Eipedon (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 Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Reduced Vertic (F18) (outside MLRA 150A Organic Bodies (A6) (LRR P, T, U) Depleted Matrix (F3) Anomalous Bright Loamy Soils (F20) Stratified Layers (A5) Depleted Matrix (F3) Mark (F3) Organic Bodies (A6) (LRR P, T, U) Depleted Dark Surface (F6) Anomalous Bright Loamy Soils (F20) Stratified Layers (A8) Depleted Dark Surface (F7) Redox Depressions (F8) Red Parent Material (TF2) Mark (F10) (LRR V) Depleted Ochric (F11) (MLRA 151) Depleted Ochric (F11) (MLRA 151) Other (Explain in Remarks) Depleted Below Dark Surface (A12) Inon-Manganese Masses (F12) (LRR O, P, T) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) (LRR O, S) Belta Ochric (F13) (MLRA 150A, 150B) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Redox (S5) Piedmont Floodplain Soils (F20) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A) Sandy Redox (S5) Piedmont Floodplain Soils (F20) (MLRA 149A), Anomalous Bright L	ric Soil	Indicators: (Applic		RRs, unless other	wise not	ed.)		Indicators for	Problematic Hydric Soils ³ :
Strictive Layer (if observed): Hydric Soil Present? Yes No	strictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No	Histic Eg Black H Hydroge Stratifier Organic 5 cm Mi Muck P 1 cm Mi Deplete Thick D Coast P Sandy N Sandy O Sandy F	pipedon (A2) listic (A3) en Sulfide (A4) ed Layers (A5) a Bodies (A6) (LRR F ucky Mineral (A7) (L resence (A8) (LRR R, T) uck (A9) (LRR P, T) ed Below Dark Surface Oark Surface (A12) Prairie Redox (A16) (Mucky Mineral (S1) (Gleyed Matrix (S4) Redox (S5) d Matrix (S6)	RR P, T, U) U) (MLRA 150A) (LRR O, S)	Thin Dark Su Loamy Mucky Loamy Gleye Depleted Mat Redox Dark S Depleted Dar Redox Depre Marl (F10) (L Depleted Ocl Iron-Mangan Umbric Surfa Delta Ochric Reduced Ver Piedmont Flo	rface (S9 y Mineral de Matrix (F3) Surface (F k Surface (F k Surface (F11) ese Mass ice (F13) (F17) (Min tric (F18) boodplain S) (LRR S, (F1) (LRR (F2) = (F7) = (F7) = (MLRA 15 ses (F12) (I (LRR P, T, LRA 151) (MLRA 15 Soils (F19)	T, U) O) LRR O, P, 1 , U) (0A, 150B) (MLRA 149	2 cm Mucl Reduced V Piedmont Anomalou (MLRA Red Paren Very Shal Other (Ext 1) ³ Indicato wetlan unless	k (A10) (LRR S) Vertic (F18) (outside MLRA 150A Floodplain Soils (F19) (LRR P, S, us Bright Loamy Soils (F20) 153B) nt Material (TF2) llow Dark Surface (TF12) rplain in Remarks) ors of hydrophytic vegetation and hd hydrology must be present, a disturbed or problematic.
		strictive Type:	Layer (if observed):						ocont2 Voc No
		marks:								



Wetland data point wcmo026f_w facing north.



Wetland data point wcmo026f_w facing east.

Project/Site: ACP City/C	County: Cumberland Sampling Date: 4-11-16
Applicant/Owner: Daminian	State: NC Sampling Point: WCM0026-4
Investigator(s): EST (L. Roper, W. Vaughan) Section	on, Township, Range:
Landform (hillslope, terrace, etc.): Fla+ Local	relief (concave, convex, none): Convex Slope (%): 0-3
Subregion (LRR or MLRA): 2 R RT Lat: 34,940	0/0209 Long: 78.7388/011 Datum: Wes84
Soil Map Unit Name: Grantham Loan	
Are climatic / hydrologic conditions on the site typical for this time of year?	
Are Vegetation, Soil, or Hydrology significantly distur	
Are Vegetation, Soil, or Hydrology naturally problem	
SUMMARY OF FINDINGS – Attach site map showing san	
	ihung hours recently in
Hydrophytic Vegetation Present? Yes No	Is the Sampled Area
Hydric Soil Present? Yes No	within a Wetland? Yes No
Wetland Hydrology Present? Yes No Remarks:	
Remarks: powerline easement	
1 March	
abnormally dry conditions	
HYDROLOGÝ	
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)	R U) Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Saturation (A3) High Water Table (A2) Hydrogen Sulfide Odor (
Water Marks (B1)	
Sediment Deposits (B2)	이번 사람이 있는 것은 것은 것 같은 것은 것은 것은 것은 것은 것은 것을 수 있는 것은 것을 수 있는 것은 것을 하는 것은 것을 가지 않는 것을 하는 것을 하는 것을 하는 것을 하는 것을 수 있는 것을 수 있다. 것을 것을 수 있는 것을 수 있다. 것을 것을 것을 것을 수 있는 것을 수 있다. 것을 것을 것을 것을 것을 수 있는 것을 수 있는 것을 것을 수 있는 것을 수 있는 것을 수 있는 것을 수 있다. 것을 것 같이 것을 것 같이 없 수 있는 것을 것 같이 것 같이 것 같이 없다. 것을 것 같이 것 같이 것 같이 것 같이 것 같이 없다. 것 같이 것 같이 것 같이 것 같이 없다. 것 같이 것 같이 것 같이 없다. 것 같이 하는 것 같이 없다. 것 같이 것 같이 것 같이 없다. 것 같이 것 같이 것 같이 없다. 것 같이 것 같이 없다. 것 같이 않 것 같이 것 같이 것 같이 것 같이 없다. 것 같이 것 같이 것 같이 것 같이 것 같이 것 같이 없다. 것 같이 것 같이 것 같이 것 같이 않다. 것 같이 것 같이 것 같이 않다. 것 같이 것 같이 것 같이 않다. 것 같이 것 같이 것 같이 없다. 것 같이 것 같이 없다. 것 같이 것 같이 것 같이 없다. 것 같이 것 같이 것 같이 않다. 것 같이 것 같이 것 같이 없다. 것 같이 것 같이 것 같이 않다. 것 같이 것 같이 것 같이 없다. 것 같이 것 같이 것 같이 없다. 것 같이 것 같이 것 같이 것 같이 없다. 것 같이 것 같이 같이 것 같이 같이 않다. 것 같이 것 같이 같이 것 같이 않다. 것 같이 것 같이 같이 같이 것 같이 않다. 것 같이 것 같이 같이 않다. 것 같이 것 같이 않다. 것 같이 같이 것 같이 않다. 것 같이 것 같이 것 것 같이 것 같이 같이 같이 않아? 것 같이 같이 같이 것 같이 않다. 것 같이 것 같이 것 같이 것 같이 않아. 것 같이 않아. 것 같이 것 같이 같이 않아. 것 같이 것 같이 않아. 것 같이 않 않아. 것 같이 않아. 것 같이 않이 않이 않이 않이 않이 않이 않이 않아. 것 같이 않이 않아. 것 않아. 것 않아.
Drift Deposits (B3)	
Algal Mat or Crust (B4)	Geomorphic Position (D2)
Iron Deposits (B5)	ks) Shallow Aquitard (D3) 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? Yes No Depth (inches):	A
Water Table Present? Yes No Depth (inches):	20 inches
Saturation Present? Yes No Yes Depth (inches): >7	Co inches Wetland Hydrology Present? Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, pro	evious inspections), if available:
Remarks:	

Sampling Point: Wcmo026-4

	Absolute	Dominan	t Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30Ft 30F+)	% Cover	the second s	the second	Number of Dominant Species
The start of sectors and the sector of th	CONSTRUCTION OF CONST.	AND SOUTH OF SALE	AND STREET, ST	That Are OBL, FACW, or FAC: (A)
A Contract of the second se				
2				Total Number of Dominant 7
3	1	1. Contraction	A Statistics	Species Across All Strata: (B)
4.	112222			
				Percent of Dominant Species 50 (A/B)
5	STORES STREET	0.0000000000000000000000000000000000000	1.1. JAN 1976 P. 1. 1976	That Are OBL, FACW, or FAC: (A/B)
6	and Desider	CONTRACTOR OF		Prevalence Index worksheet:
7.	Sale and	State State		
8.				Total % Cover of:Multiply by:
	0	- Tatal Ca		OBL species 50 x1 = 50
	And the second s			FACW species $15 \times 2 = 30$
50% of total cover:	20% of	total cove	r:	FAC species 20 x3= 60
Sapling/Shrub Stratum (Plot size: 30Ft)				FAC species AS
1. none				FACU species 45 x4 = 180
		10000000000	1.7.7.55 State	UPL species x 5 =
2			-	Column Totals: 30 (A) 320 (B)
3			ANTER DE DE L'AL	
4.	Chiefe States	A MARINA		Prevalence Index = B/A =
5.	AND SALANDERS		1979 Back Back	
	Condition of the state of the second second	AND STREET OF ALL PROVIDED BY		Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7		1.		2 - Dominance Test is >50%
8.				3 - Prevalence Index is ≤3.0 ¹
	6	= Total Co	Ver	
	An organization and the second second			Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of	total cove	r:	
Herb Stratum (Plot size: 30f1 , 30f1)				¹ Indicators of hydric soil and wetland hydrology must
1. Juncus effusus	50	Ves	OBL	be present, unless disturbed or problematic.
2. Tridens flavus		yes	FACU	Definitions of Four Vegetation Strata:
		out the new printers and		Demittoris of Four Vegetation Citata.
3. Geranium maculatum		no	FACU	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Rananculus bulbasus	10	no	FAC	more in diameter at breast height (DBH), regardless of
	15	no	FACW	height.
	CONTRACTOR OF TAXABLE PARTY	no	FAC	a second to the to the successful and the second
6. Rubes argutus		10	FAC	Sapling/Shrub – Woody plants, excluding vines, less
7	1999 748			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	A CONTRACT	Add Add	i pris visio casili	height.
12.				
	130	= Total Co	Wor	and the second
2-				
50% of total cover: <u>6</u> 5	20% of	total cove	r: <u>46</u>	
Woody Vine Stratum (Plot size: 30f+ x 30f+)				
1. none				
	1000 (CAS)	A CONTRACTOR	A CONTRACT	
2		Conception and the second		
3.		northe daily		
4.			a an	
	E SORT VILL	TANK NORM	N. C. S. C. S. S.	
5				Hydrophytic
	0	= Total Co	over	Vegetation Present? Yes V No
50% of total cover:	20% of	f total cove	er:	Present? Yes No No
Remarks: (If observed, list morphological adaptations belo	and the second s	hal and half have i be tel strategical have i be	490 042 - 1455 12 (* 19 14	
Remarks. (il observed, list morphological adaptations beid	, ww).			
	Construction of the second	South AL and A	AVANCES OF CREST	

Sampling Point: Wcmo 026_u

	cription: (Describe	to the depth				or confirm	the absence of in	ndicators.)	
Depth (inches)	Color (moist)	%	Rede Color (moist)	ox Feature %		Loc ²	Texture	Remark	5
0-5	10vr 3/1	100					LS		
5-10	1045 3/3	100					5		
10-20	10+r 5/6	100					5		
C.R. C. W.									
				Sec.			A CANADA AND		
			Res Calidas						
¹ Type: C=C	Concentration, D=De	pletion, RM=R	educed Matrix, M	IS=Masked	d Sand Gr	ains.	² Location: PL=	=Pore Lining, M=M	atrix.
Hydric Soil	Indicators: (Appli	cable to all LF	RRs, unless othe	erwise not	ted.)			Problematic Hydr	ic Soils':
Histoso			Polyvalue B Thin Dark S					< (A9) (LRR O) < (A10) (LRR S)	
	Epipedon (A2) Histic (A3)		Loamy Muc					Vertic (F18) (outsid	le MLRA 150A,B)
	en Sulfide (A4)		Loamy Gley	ed Matrix				Floodplain Soils (F	
	ed Layers (A5)		Depleted Ma		Eat		[10] [10] [20] [20] [20] [20] [20] [20] [20] [2	s Bright Loamy Soi	ls (F20)
	c Bodies (A6) (LRR I lucky Mineral (A7) (L		Redox Dark	Physics and Distance where it is a 7				nt Material (TF2)	
	Presence (A8) (LRR		Redox Depr				Very Shall	low Dark Surface (FF12)
	luck (A9) (LRR P, T)		Marl (F10) (Other (Exp	plain in Remarks)	
 Boots Automatication 	ed Below Dark Surfa Dark Surface (A12)	ce (A11)	Depleted Or Iron-Manga				T) ³ Indicato	rs of hydrophytic ve	egetation and
	Prairie Redox (A16)	(MLRA 150A)	N. Andrew Construction of the second seco		International Control Production of the		wetland	d hydrology must b	e present,
Sandy	Mucky Mineral (S1)		Delta Ochrie					disturbed or proble	ematic.
	Gleyed Matrix (S4)		Reduced Ve						
	Redox (S5) d Matrix (S6)						A 149A, 153C, 15	3D)	
Dark S	urface (S7) (LRR P,								
一、 (大学)、 学校、 学校、 学校、 学校、 学校、 学校、 学校、 学校、 学校、 学校	Layer (if observed):							
Type:							Hydric Soil Pr	esent? Yes	No V
Remarks:	nches):			27993 Q	and a state of the		Thyune contra		
Keinarka.									
in an ear									
Contraction of the second									



Upland data point wcmo026_u facing south.



Upland data point wcmo026_u facing west.

Project/Site: City/C	ounty: Cumberland Sampling Date: 4-11-16
Applicant/Owner: Dominion	State: NC Sampling Point: Wcmo026e-W
Investigator(s): <u>EST (L. Roper</u> , W. Veryhan) Section Landform (hillslope, terrace, etc.): <u>depression</u> Local	silief (concerns convex concerns): (COCCerts Slope (%): O-5
Landform (hillslope, terrace, etc.): <u>depression</u> Local	relief (concave, convex, none) costato cope (x)
Subregion (LRR or MLRA): <u>LRR</u> Lat: <u>34.94610</u>	
	NWI classification: PER
Are climatic / hydrologic conditions on the site typical for this time of year? Y	es No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly distur	
Are Vegetation, Soil, or Hydrology naturally problema	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	Is the Sampled Area within a Wetland? Yes <u>V</u> No
Remarks: power me easement	
abnormally dry conditions	
HYDROLOGÝ	
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) Marl Deposits (B15) (LRF	R U) Drainage Patterns (B10)
Saturation (A3) Hydrogen Sulfide Odor (C	
Water Marks (B1) Qxidized Rhizospheres a	
Sediment Deposits (B2)	
Drift Deposits (B3)	한 성장은 가 것 집에 가 안 같은 것 같아요. 그는 것 같아요. 이 문 것 같아요. 그는 것은 것 같아요. 그는 그는 것 같아요. 그는 것 그 그는 것 같아요. 그는 그는 것 ? 그는 그는 것 ? 그는 그는 것 ? 그는 그는 것 ? 그는
Algal Mat or Crust (B4)	(D2) Geomorphic Position (D2)
Iron Deposits (B5) Under (Explain in Remark	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	10
Water Table Present? Yes No Depth (inches): > 2	0
Saturation Present? Yes No Depth (inches):	5 Wetland Hydrology Present? Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:
Describe Recorded Data (stream gauge, monitoring weil, dena protos, pro	
Remarks:	

Sampling Point: wemo 026e-w

	Absolute	Dominant	Indicator	Dominance Test worksheet:	alexa tent
Tree Stratum (Plot size: 30ft + 30ft)		Species?	the state of the second state of the second state of the state of the second state of	Number of Dominant Species	
The second s	Comparison of the state of	The Contract of the Case of	Contraction processing.		(A)
1. none					
2				Total Number of Dominant	
3					(B)
4.			STORE STREET, STORE		
The second s	CARL MARKED MARK		AND	Percent of Dominant Species	(A/D)
5			THE STREET STORES	That Are OBL, FACW, or FAC:OO	(A/B)
6		HAR HARRING		Prevalence Index worksheet:	A DECKIPTION
7					
8.			S. C. S. C. S. C. S.	Total % Cover of: Multiply by:	-
b ,	0	= Total Cov	and the second	OBL species x 1 =	
	in the strategy with the property			FACW species x 2 =	1111
50% of total cover:	20% of	total cover:			C 100 0 00000
Sapling/Shrub Stratum (Plot size: 30f4 x 30f4)				FAC species x 3 =	14010343345
The second s				FACU species x 4 =	
				UPL species x 5 =	10.00
2				Column Totals: (A)	
3			A DECEMBER OF		. (-)
4.			NEW THE REAL	Prevalence Index = B/A =	
and the second	DOMESTIC NOTION	Landers and the second second second	No characteriante anno 62	A. S. T. P. T. M.	-01/04/24
5				Hydrophytic Vegetation Indicators:	
6		and the second second	A LONGING	1 - Rapid Test for Hydrophytic Vegetation	
7			and the second	2 - Dominance Test is >50%	
8.				\square 3 - Prevalence Index is $\leq 3.0^1$	
	and a subject to the second	= Total Cov			
	a second a classification of			Problematic Hydrophytic Vegetation ¹ (Explain	1)
50% of total cover:	20% of	total cover:	alar a Chai		391193
Herb Stratum (Plot size: 30Ft x 30Ft)				¹ Indicators of hydric soil and wetland hydrology m	ust
1. Juncus effusus	60	Ves	FACIN	be present, unless disturbed or problematic.	
A Francisco	15	no	FAC	Definitions of Four Vegetation Strata:	
2. Rubus argutas		and the second of a local second second		Definitions of Pour Vegetation Strata.	
3. Acer rubium	10	no	FAC	Tree - Woody plants, excluding vines, 3 in. (7.6 c	m) or
4				more in diameter at breast height (DBH), regardle	ess of
5.				height.	
A 1997					
6				Sapling/Shrub - Woody plants, excluding vines,	less
7	<u>, 2012, 0, 2015</u>	<u>and and and a</u>	Calles and	than 3 in. DBH and greater than 3.28 ft (1 m) tall.	
8.		No		Herb - All herbaceous (non-woody) plants, regard	dless
9				of size, and woody plants less than 3.28 ft tall.	
10	Service 10000	a company of Adding to the St	And Transferry Barry	Woody vine - All woody vines greater than 3.28	ft in
11	1.			height.	
12					
	RE	= Total Cov	er	and the second state of th	VIAL ALTE
50% of total cover:	20% of	total cover:			
Woody Vine Stratum (Plot size: 30f+ + 30f+)					
1. none			and shall		
And the second			C. C. C. C.		
2		-	The second second		
3					
4.	N. S. C. S.	Constanting .			
			CHONE AND	Underschudie	
5	6		The second second	Hydrophytic	
	The Participant of the States	= Total Cov		Vegetation Present? Yes Vo No	
50% of total cover:	20% o	f total cover			
Remarks: (If observed, list morphological adaptations belo	and the second second	Vie gestion of	10.000		Second Second
remarka. (ii ubaci veu, nai morphological adaptations beit					
				and a second second second sector as the first of the second second second second second second second second s	

SOIL

Sampling Point: wema 026 e-w

Profile Desc	ription: (Describe	to the depth	neede	d to docun	nent the i	ndicator	or confirm	the absence o	f indicators.)
Depth	Matrix			Redo	x Features	5			
(inches)	Color (moist)		Color	(moist)	%	Type'	_Loc ²	Texture _	Remarks
0-8	10yr 3/1	100			-			SL	
8-20	10yr 3/1	97	lour	4/4	3	C	M	SL	
						AUT ASIC			
		THE PARTY OF		A SALES	Caller ag	APPS MILLER	125		
		-	electro un Pletto inte		1000 2010			793964739655-00.1	
		-			A CAR ON RAIL				
				Sure a realized	-		-		
¹ Type: C=Co	ncentration, D=Dep	letion, RM=R	educed	Matrix, MS	S=Masked	Sand Gra	ains.	² Location: F	PL=Pore Lining, M=Matrix. or Problematic Hydric Soils ³ :
	ndicators: (Applic	able to all LR							
Histosol				olyvalue Be nin Dark Su			RR S, T, U)		uck (A9) (LRR O) uck (A10) (LRR S)
Black His	ipedon (A2)			amy Muck					d Vertic (F18) (outside MLRA 150A,B)
	n Sulfide (A4)			amy Gleye					nt Floodplain Soils (F19) (LRR P, S, T)
	Layers (A5)			epleted Ma				and a second sec	ous Bright Loamy Soils (F20)
	Bodies (A6) (LRR P		and the second	edox Dark	the result of the state of the state				A 153B)
	cky Mineral (A7) (LI			epleted Da					rent Material (TF2) nallow Dark Surface (TF12)
 A Terrare Description over set to be the set of the s	esence (A8) (LRR L ck (A9) (LRR P, T)	")	-	edox Depre arl (F10) (L		0)			Explain in Remarks)
	Below Dark Surfac	e (A11)		epleted Oc		(MLRA 1	51)		
10. Second device and the second s	rk Surface (A12)	- (LRR O, P,		ators of hydrophytic vegetation and
 A second Sign by Physical deebed (\$155) 	airie Redox (A16) (I			mbric Surfa			; U)		and hydrology must be present,
	ucky Mineral (S1) (LRR O, S)		elta Ochric				unle	ss disturbed or problematic.
	edox (S5)						OA, 150B) (MLRA 14	94)	
V. S. Berner, Manufacture and April 1993.	Matrix (S6)							A 149A, 153C,	153D)
	face (S7) (LRR P,	5, T, U)							
	ayer (if observed)			Constant Series					
Type:		Sec. Same							
Depth (in	ches):							Hydric Soil	Present? Yes <u>No</u>
Remarks:				N. W. MAR		898 N.A.	2010		
100000000									
1000000000									



Wetland data point wcmo026e_w facing east.



Wetland data point wcmo026e_w facing north.

Photo Sheet 1 of 3

Project/Site: <u>ACP</u> City/C	County: Cumberland Sampling Date: 4-11-16
Applicant/Owner: DOCOOD	State: NC Sampling Point: WCM6020104
Investigator(s): ESI (W. Vaughen, L. Roper) Secti	ion. Township, Range: None
Landform (hillslope, terrace, etc.): depression Loca Subregion (LRR or MLRA): LPPT Lat: 34,9405 Soil Map Unit Name: Grantham Joam	I relief (concave, convex, none): Concave Slope (%): O-3 58 Long: -78.73767 Datum: W6584 NWI classification:
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	
Are Vegetation, Soil, or Hydrology naturally problem	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sar	npling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	Is the Sampled Area within a Wetland? Yes No
Remarks: abnormally dry conditions NCWAM: Pine Plat	
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) High Water Table (A2) Marl Deposits (B15) (LR)	
Saturation (A3) Hydrogen Sulfide Odor Water Marks (B1) Oxidized Rhizospheres	along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2)	
Drift Deposits (B3)	
Algal Mat or Crust (B4)	승규는 것을 것 같아요. 그는 것 같아요. 그는 것 같아요. 그는 것 같아요. 이야가 실망 방법에 있는 것은 것을 가 물었는 것 같아요. 그는 것 같아요. 그는 것 같아요. 그는 것 같아요. 그는 것
Iron Deposits (B5)	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U)
Water-Stained Leaves (B9)	
Field Observations: Surface Water Present? Yes No X Depth (inches):	20
Surface Water Present? Yes No _X Depth (inches): _/ Water Table Present? Yes No _X Depth (inches): _/	
Saturation Present? Yes V No Depth (inches): Saturation Present?	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pr	evious inspections), il available.
Remarks:	

Sampling Point: wcmo026 f.w

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30ft + 36ft)	And the party of the second second second	Species?	Status	Number of Dominant Species
1. Pinus tacda	20	yes	FAC	That Are OBL, FACW, or FAC: (A)
2. Acer rubrum		1		T-t-1N-mbased Demiserat
3.				Total Number of Dominant Species Across All Strata:(B)
2. 使用于一种中心中心。如果一种生活、他们的一种生活的、你们的生活和我们的现在时,你们也可能能能够不能在这些你们的。"他们的问题,我们们的问题,我们们可以不可能。			N HERRICH	
4			ALCONTRACTION AND	Percent of Dominant Species /00 (A/B)
5	CONTRACTOR OF STATES			That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7	and the second			Total % Cover of: Multiply by:
8	- Contraction	Section 22	A State of the	OBL species x 1 =
	30	= Total Cov	/er	The arrival of the and a first state of the second of the second state of the second s
50% of total cover:/S	20% of	total cover	: 6	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30ft x 30ft)				FAC species x 3 =
1. Accr rubrum	15	ves	FAC	FACU species x 4 =
o The abo	10	Ves	FAC	UPL species x 5 =
2. Ilex opaca	-10-	no	FACW	Column Totals: (A) (B)
3. Magnolia Virginiana			FACU	
4		A MARINE ANALYSI	A Street Charles	Prevalence Index = B/A =
5	a line to make	A SAMANAS		Hydrophytic Vegetation Indicators:
6.			Sales and	1, Rapid Test for Hydrophytic Vegetation
7.			FILS STATE	2 - Dominance Test is >50%
8.	- California (Sel			3 - Prevalence Index is $\leq 3.0^{1}$
u	30	= Total Cov	ler	
50% of total cover:/5	And and a second s		Constant of the second s	Problematic Hydrophytic Vegetation ¹ (Explain)
	20% 01	total cover		
Herb Stratum (Plot size: 30ft , 30ft)	1-		. 01	¹ Indicators of hydric soil and wetland hydrology must
1. Woodword: a arcolata	10	yes	OBL	be present, unless disturbed or problematic.
2. OSmundastrum cinnamomeum	S	no	FACW	Definitions of Four Vegetation Strata:
3. Juncus effasus	10	yes	OBL	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4		'		more in diameter at breast height (DBH), regardless of
		Constanting		height.
5				Continue Charles Mandu planta ovaludina vinos Jose
6				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7	Contractor of the			
8				Herb - All herbaceous (non-woody) plants, regardless
9	-	- AND AND AND		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		1.5.1.5.10		
	25	= Total Co		
50% of total cover: _ [2]			· · · · · · · · · · · · · · · · · · ·	
	20% 0	total cover		
Woody Vine Stratum (Plot size: 30PL x 30PL)			TAN	
1. Smilax lawrifolia	20	Yes	1-AUN	
2. Witis rotudifolia	10	yes	1-AC	
3.	and saids.			
4			S. Maria	
			THE PARTY OF	11. desetedia
D	2-			Hydrophytic Vegetation
1-	China & China and State	= Total Co		Present? Yes No
50% of total cover: 15	20% o	f total cover		
Remarks: (If observed, list morphological adaptations belo	w).			
		the Association	Stand Land	

001

Sampling Point: wcmo026f-w

Itess Color Ittostri a Color Ittostri a The itess itess 2D 2.5 y 3/1 97 /Oyr 4/4 3 C M itess 2D 2.5 y 3/1 97 /Oyr 4/4 3 C M itess 2D 2.5 y 3/1 97 /Oyr 4/4 3 C M itess 2D 2.5 y 3/1 97 /Oyr 4/4 3 C M ites 2D 2.5 y 3/1 97 /Oyr 4/4 3 C M ites 2D 2.5 y 3/1 97 /Oyr 4/4 3 C M ites 2D 2.5 y 3/1 97 /Oyr 4/4 3 C M ites 2D 2D Ites	Intest 0000 (mossi) a 100 r 110 c 100 r	epth ches)	Matrix Color (moist)	%	Redox Color (moist)	K Feature: %	sType1	Loc ²	Texture	Remarks
Iric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Polyvalue Below Surface (S8) (LRR S, T, U) I cm Muck (A9) (LRR O) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR O) 2 cm Muck (A10) (LRR S) Black Histic (A3) Loamy Gleyed Matrix (F2) Reduced Vertic (F18) (outside MLRA 150A Organic Bodies (A6) (LRR P, T, U) Depleted Matrix (F3) Mard (F10) (LRR U) Muck (A9) (LRR P, T, U) Redox Dark Surface (F7) Red Parent Material (TF2) Muck (A9) (LRR P, T, U) Depleted Dark Surface (F7) Red Parent Material (TF2) Muck (A9) (LRR P, T) Marl (F10) (LRR U) Red Parent Material (TF2) Very Shallow Dark Surface (A11) Iron-Manganese Masses (F12) (LRR O, P, T) Stratifice Ch12 (LRR O, P, T) Depleted Below Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P, T) Sindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) (LRR O, S) Piedmont Floodplain Soils (F19) (MLRA 149A) stirteitve Layer (if observed): Type:	Iric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Polyvalue Below Surface (S8) (LRR S, T, U) I cm Muck (A9) (LRR O) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR O) 2 cm Muck (A10) (LRR S) Black Histic (A3) Loamy Gleyed Matrix (F2) Reduced Vertic (F18) (outside MLRA 150A Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) (MLRA 153B) Scm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7) Red Parent Material (TF2) Muck (A9) (LRR P, T) Marl (F10) (LRR U) Red Parent Material (TF2) Very Shallow Dark Surface (A11) Iron-Manganese Masses (F12) (LRR O, P, T) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) (LRR O, S) Piedmont Floodplain Soils (F19) (MLRA 150A, 150B) Piedmont Floodplain Soils (F20) (MLRA 149A) Stripped Matrix (S6) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Piedmont Floodplain Soils (F20) (MLRA 149A, 153C, 153D) Hydric Soil Present? Yes No				to back as the same fact some weather has been a set of the set	Construction of the second second	Contractor activities and	of a star in the star of the star of the star	1	
Histic Eipedon (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 Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Reduced Vertic (F18) (outside MLRA 150A Organic Bodies (A6) (LRR P, T, U) Depleted Matrix (F3) Anomalous Bright Loamy Soils (F20) Stratified Layers (A5) Depleted Matrix (F3) Mark (F3) Organic Bodies (A6) (LRR P, T, U) Depleted Dark Surface (F6) Anomalous Bright Loamy Soils (F20) Stratified Layers (A8) Depleted Dark Surface (F7) Redox Depressions (F8) Red Parent Material (TF2) Mark (F10) (LRR V) Depleted Ochric (F11) (MLRA 151) Depleted Ochric (F11) (MLRA 151) Other (Explain in Remarks) Depleted Below Dark Surface (A12) Inon-Manganese Masses (F12) (LRR O, P, T) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) (LRR O, S) Belta Ochric (F13) (MLRA 150A, 150B) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Redox (S5) Piedmont Floodplain Soils (F20) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A) Sandy Redox (S5) Piedmont Floodplain Soils (F20) (MLRA 149A), Anomalous Bright L	Histic Eipedon (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 Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Reduced Vertic (F18) (outside MLRA 150A Organic Bodies (A6) (LRR P, T, U) Depleted Matrix (F3) Anomalous Bright Loamy Soils (F20) Stratified Layers (A5) Depleted Matrix (F3) Mark (F3) Organic Bodies (A6) (LRR P, T, U) Depleted Dark Surface (F6) Anomalous Bright Loamy Soils (F20) Stratified Layers (A8) Depleted Dark Surface (F7) Redox Depressions (F8) Red Parent Material (TF2) Mark (F10) (LRR V) Depleted Ochric (F11) (MLRA 151) Depleted Ochric (F11) (MLRA 151) Other (Explain in Remarks) Depleted Below Dark Surface (A12) Inon-Manganese Masses (F12) (LRR O, P, T) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) (LRR O, S) Belta Ochric (F13) (MLRA 150A, 150B) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Redox (S5) Piedmont Floodplain Soils (F20) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A) Sandy Redox (S5) Piedmont Floodplain Soils (F20) (MLRA 149A), Anomalous Bright L	ric Soil	Indicators: (Applic		RRs, unless other	wise not	ed.)		Indicators for	Problematic Hydric Soils ³ :
Strictive Layer (if observed): Hydric Soil Present? Yes No	strictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No	Histic Eg Black H Hydroge Stratifier Organic 5 cm Mi Muck P 1 cm Mi Deplete Thick D Coast P Sandy N Sandy O Sandy F	pipedon (A2) listic (A3) en Sulfide (A4) ed Layers (A5) a Bodies (A6) (LRR F ucky Mineral (A7) (L resence (A8) (LRR R, T) uck (A9) (LRR P, T) ed Below Dark Surface Oark Surface (A12) Prairie Redox (A16) (Mucky Mineral (S1) (Gleyed Matrix (S4) Redox (S5) d Matrix (S6)	RR P, T, U) U) (MLRA 150A) (LRR O, S)	Thin Dark Su Loamy Mucky Loamy Gleye Depleted Mat Redox Dark S Depleted Dar Redox Depre Marl (F10) (L Depleted Ocl Iron-Mangan Umbric Surfa Delta Ochric Reduced Ver Piedmont Flo	rface (S9 y Mineral de Matrix (F3) Surface (F k Surface (F k Surface (F11) ese Mass ice (F13) (F17) (Min tric (F18) boodplain S) (LRR S, (F1) (LRR (F2) = (F7) = (F7) = (MLRA 15 ses (F12) (I (LRR P, T, LRA 151) (MLRA 15 Soils (F19)	T, U) O) LRR O, P, 1 , U) (0A, 150B) (MLRA 149	2 cm Mucl Reduced V Piedmont Anomalou (MLRA Red Paren Very Shal Other (Ext 1) ³ Indicato wetlan unless	k (A10) (LRR S) Vertic (F18) (outside MLRA 150A Floodplain Soils (F19) (LRR P, S, us Bright Loamy Soils (F20) 153B) nt Material (TF2) llow Dark Surface (TF12) rplain in Remarks) ors of hydrophytic vegetation and hd hydrology must be present, a disturbed or problematic.
		strictive Type:	Layer (if observed):						ocont2 Voc No
		marks:								



Wetland data point wcmo026f_w facing north.



Wetland data point wcmo026f_w facing east.

Project/Site: ACP City/C	County: Cumberland Sampling Date: 4-11-16
Applicant/Owner: Daminian	State: NC Sampling Point: WCM0026-4
Investigator(s): EST (L. Roper, W. Vaughan) Section	on, Township, Range:
Landform (hillslope, terrace, etc.): Fla+ Local	relief (concave, convex, none): Convex Slope (%): 0-3
Subregion (LRR or MLRA): 2 R RT Lat: 34,940	0/0209 Long: 78.7388/011 Datum: Wes84
Soil Map Unit Name: Grantham Loan	
Are climatic / hydrologic conditions on the site typical for this time of year?	
Are Vegetation, Soil, or Hydrology significantly distur	
Are Vegetation, Soil, or Hydrology naturally problem	
SUMMARY OF FINDINGS – Attach site map showing san	
	ihung hours recently in
Hydrophytic Vegetation Present? Yes No	Is the Sampled Area
Hydric Soil Present? Yes No	within a Wetland? Yes <u>No X</u>
Wetland Hydrology Present? Yes No Remarks:	
Remarks: powerline easement	
1 March	
abnormally dry conditions	
HYDROLOGÝ	
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)	R U) Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Saturation (A3) High Water Table (A2) Hydrogen Sulfide Odor (
Water Marks (B1)	
Sediment Deposits (B2)	이 이 것이 있는 것이 있는 것 같은 것이 있는 것이 없다. 것이 있는 것이 있는 것이 있는 것이 있는 것이 있는 것이 있는 것이 없다. 것이 있는 것이 있는 것이 있는 것이 없다. 것이 있는 것이 있는 것이 없다. 것이 있는 것이 없다. 것이 있는 것이 없다. 것이 있는 것이 없다. 것이 있는 것이 있는 것이 없다. 것이 있는 것이 없다. 것이 있는 것이 없다. 것이 있는 것이 없다. 것이 않 같이 없다. 같이 없다. 같이 없다. 것이 없다. 같이 없다. 것이 없다. 한 것이 없다. 것이 않다. 것이 없다. 것이 않 않다. 것이 없다. 것이 않다. 것이 없다. 것이 없다. 것이 없다. 것이 없다. 것이 없다. 것이 않다. 것이 없다. 것이 없다. 것이 없다. 것이 없다. 것이 않다. 것이 않다. 것이 없다. 것이 없다. 것이 않아, 것이 않아, 것이 없다. 것이 없이 없다.
Drift Deposits (B3)	
Algal Mat or Crust (B4)	Geomorphic Position (D2)
Iron Deposits (B5)	ks) Shallow Aquitard (D3) 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? Yes No Depth (inches):	A
Water Table Present? Yes No Depth (inches):	20 inches
Saturation Present? Yes No Yes Depth (inches): >7	Co inches Wetland Hydrology Present? Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, pro	evious inspections), if available:
Remarks:	

Sampling Point: Wcmo026-4

	Absolute	Dominan	t Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30Ft + 30F+)	% Cover	the second s	the second	Number of Dominant Species
The start of sectors and the sector of th	CONSTRUCTION OF CONSTRUCT	AND SOUTH OF SALE	AND STREET, ST	That Are OBL, FACW, or FAC: (A)
A Contract of the second se				
2				Total Number of Dominant 7
3	1	- in the constant	A Statistics	Species Across All Strata: (B)
4.	112222			
				Percent of Dominant Species 50 (A/B)
5	STORES STREET	0.0000000000000000000000000000000000000	1.1. JAN 1976 P. 1. 1976	That Are OBL, FACW, or FAC: (A/B)
6	and Desider	CONTRACTOR OF		Prevalence Index worksheet:
7.	Sale and	State State		
8.				Total % Cover of:Multiply by:
	0	- Tatal Ca		OBL species 50 x1 = 50
	And the second s			FACW species $15 \times 2 = 30$
50% of total cover:	20% of	total cove	r:	FAC species 20 x3= 60
Sapling/Shrub Stratum (Plot size: 30Ft)				FAC species AS
1. none				FACU species 45 x4 = 180
		10000000000	17.755 State	UPL species x 5 =
2			-	Column Totals: 30 (A) 320 (B)
3			ANTER DE DE L'AL	
4.	Chiefe States	A MARINA		Prevalence Index = B/A =
5.	AND SALANDERS		1979 Back Back	
	Condition of the state of the second s	AND STREET OF ALL PROVIDED BY		Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7		1.		2 - Dominance Test is >50%
8.				3 - Prevalence Index is ≤3.0 ¹
	6	= Total Co	Ver	
	An organization and the second second			Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of	total cove	r:	
Herb Stratum (Plot size: 30f1 , 30f1)				¹ Indicators of hydric soil and wetland hydrology must
1. Juncus effusus	50	Ves	OBL	be present, unless disturbed or problematic.
2. Tridens flavus		yes	FACU	Definitions of Four Vegetation Strata:
		out of the entropy of		Demittoris of Four Vegetation Citata.
3. Geranium maculatum		no	FACU	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Rananculus bulbasus	10	no	FAC	more in diameter at breast height (DBH), regardless of
	15	no	FACW	height.
	CONTRACTOR OF TAXABLE PARTY	no	FAC	a second to the to the successful and the second
6. Rubes argutus		10	FAC	Sapling/Shrub – Woody plants, excluding vines, less
7	1999 748			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	A CONTRACT	Add Add	i pris visio casili	height.
12.				
	130	= Total Co	Wor	and the second
2-				
50% of total cover: <u>6</u> 5	20% of	total cove	r: <u>46</u>	
Woody Vine Stratum (Plot size: 30f+ x 30f+)				
1. none				
	1000 (CAS)	A CONTRACTOR	A CONTRACT	
2		Conception and the second		
3.		northe daily		
4.				
	CONTRACTOR OF	TANK NORM	1.	
5				Hydrophytic
	0	= Total Co	over	Vegetation Present? Yes V No
50% of total cover:	20% of	f total cove	er:	Present? Yes No No
Remarks: (If observed, list morphological adaptations belo	and the second s	hal and half have i be televised and have i be	490 042 - 1455 12 (* 19 14	
Remarks. (il observed, list morphological adaptations beid	, ww).			
	Construction of the second	Same All and the	AVANCES OF CREST	

Sampling Point: Wcmo 026_u

	cription: (Describe	to the depth				or confirm	the absence of in	ndicators.)	
Depth (inches)	Color (moist)	%	Rede Color (moist)	ox Feature %		Loc ²	Texture	Remark	5
0-5	10vr 3/1	100					LS		
5-10	1045 3/3	100					5		
10-20	10+r 5/6	100					5		
C.R. C. W.									
				Sec.			A CANADA AND		
			Res Calidas						
¹ Type: C=C	Concentration, D=De	pletion, RM=R	educed Matrix, M	IS=Masked	d Sand Gr	ains.	² Location: PL=	=Pore Lining, M=M	atrix.
Hydric Soil	Indicators: (Appli	cable to all LF	RRs, unless othe	erwise not	ted.)			Problematic Hydr	ic Soils':
Histoso			Polyvalue B Thin Dark S					< (A9) (LRR O) < (A10) (LRR S)	
	Epipedon (A2) Histic (A3)		Loamy Muc					Vertic (F18) (outsid	le MLRA 150A,B)
	en Sulfide (A4)		Loamy Gley	ed Matrix				Floodplain Soils (F	
	ed Layers (A5)		Depleted Ma		-		[10] [10] [20] [20] [20] [20] [20] [20] [20] [2	s Bright Loamy Soi	ls (F20)
	c Bodies (A6) (LRR I lucky Mineral (A7) (L		Redox Dark	Physics and Distance where it is a 7				nt Material (TF2)	
	Presence (A8) (LRR		Redox Depr				Very Shall	low Dark Surface (FF12)
	luck (A9) (LRR P, T)		Marl (F10) (Other (Exp	plain in Remarks)	
 Boots Automatication 	ed Below Dark Surfa Dark Surface (A12)	ce (A11)	Depleted Or Iron-Manga				T) ³ Indicato	rs of hydrophytic ve	egetation and
	Prairie Redox (A16)	(MLRA 150A)	N. And A. Statistical Annual Astronomy and a statistical and a		International Control Production of the		wetland	d hydrology must b	e present,
Sandy	Mucky Mineral (S1)		Delta Ochrie					disturbed or proble	ematic.
	Gleyed Matrix (S4)		Reduced Ve						
	Redox (S5) d Matrix (S6)						A 149A, 153C, 15	i3D)	
Dark S	urface (S7) (LRR P,								
一、 (大学)、 学校、 学校、 学校、 学校、 学校、 学校、 学校、 学校、 学校、 学校	Layer (if observed):							
Type:							Hydric Soil Pr	esent? Yes	No V
Remarks:	nches):			27993 Q	and a state of the		Thyune contra		
Keinarka.									
in an ear									
Contraction of the second									



Upland data point wcmo026_u facing south.



Upland data point wcmo026_u facing west.

Project/Site: ACP	City/County: <u>Cumberland</u> Sampling Date: <u>4/19/16</u>						
Applicant/Owner: Dominion	State: NC Sampling Point: WCmo 031f-w						
Investigator(s): L. Roper, S. Bryan							
Landform (hillslope, terrace, etc.): flut	Local relief (concave, convex, none): <u>none</u> Slope (%): <u>D-2</u>						
Subregion (LRR or MLRA): LR R P Lat: 34, 9	13518 Long: -78,74188 Datum: WGS8						
Soil Map Unit Name: Leon Sand	,						
Are climatic / hydrologic conditions on the site typical for this time of year	in tel 12 Au "No (in 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.)							
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 Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	Is the Sampled Area within a Wetland? Yes No						
Remarks: Abnormally dry condition	۵						
NCWAM Hardwood Flat							
HYDROLOGŸ							
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)	사실 것 같은 것 같						
High Water Table (A2)	사실 것 같은 것 같						
Saturation (A3)	MANE LY 및 사망 한 번째 1 1 2 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2						
A second stables and the second statement of th	ion in Tilled Soils (C6)						
Algal Mat or Crust (B4)	중에서 방법을 통하는 것을 하는 것을 하는 것을 하는 것을 해야 하는 것을 알려야 한 것을 것을 위해 있는 것을 것을 것을 하는 것을 것을 수 있는 것을 것을 수 있다. 이 것을 가지 않는 것을 가지 👘 👘 가지 않는 것을 것을 수 있다. 것을 가지 않는 것을 수 있다. 것을 것을 수 있는 것을 것을 수 있다. 이 것을 것을 수 있는 것을 것을 수 있다. 이 것을 것을 수 있는 것을 것을 수 있는 것을 수 있는 것을 수 있다. 이 것을 것을 수 있는 것을 수 있는 것을 수 있는 것을 수 있는 것을 수 있다. 이 것을 수 있는 것을 수 있다. 이 것을 수 있는 것을 수 있는 것을 수 있는 것을 수 있는 것을 수 있다. 이 것을 수 있는 것을 수 있는 것을 수 있다. 이 것을 수 있는 것을 수 있는 것을 수 있는 것을 수 있는 것을 수 있다. 이 것을 수 있는 것을 수 있다. 이 것을 수 있는 것을 수 있다. 이 것을 수 있는 것을 수 있다. 이 것을 수 있는 것을 수 있다. 이 것을 수 있는 것을 수 있다. 이 것을 수 있는 것 같이 않았다. 것을 것 같이 않았다. 것 같이 것 같이 없는 것 같이 없다. 것 같이 않았다. 것 같이 않았다. 것 같이 것 같이 않았다. 것 같이 없다. 것 같이 않았다. 것 같이 것 같이 같이 않았다. 이 같이 것 같이 같이 같이 않았다. 것 같이 것 같이 같이 않았다. 것 같이 것 같이 않았다. 것 같이 않았다. 것 같이 것 같이 않았다. 것 같이 것 같이 않았다. 것 같이 같이 않았다. 것 같이 것 같이 않았다. 한						
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:	0/0						
Surface Water Present? Yes No Depth (inches)	· NA						
Water Table Present? Yes No Depth (inches)							
Saturation Present? Yes No Depth (inches) (includes capillary fringe)	: Sw full Wetland Hydrology Present? Yes No						
Describe Recorded Data (stream gauge, monitoring well, aerial photo	s, previous inspections), if available:						
Remarks:							
Normanys.							

		NJIP
	NCMD	VJLLW
Comeline	Deint	
Sampling	Point.	A CONTRACTOR OF A CONTRACTOR

VEGETATION (Four Strata) - Use scientific	Sampling Point:	
	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30ft x 30ft) 1. Pinus taeda	% Cover Species? Status	Number of Dominant Species 5 (A)
2. Quercus niara	10 Y FAC	Total Number of Dominant
3. Acer rubrohn 4.	1.2.1.1 ································	Species Across All Strata: (B)
4 5		Percent of Dominant Species LOD (A/B)
6		Prevalence Index worksheet:
7		Total % Cover of: Multiply by:
8	3D = Total Cover	OBL species x 1 =
50% of total cover:	15 20% of total cover: 6	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30f+ x 30f+)		FAC species x 3 = FACU species x 4 =
1. Aur rubrum	- LO Y FACE	UPL species x 5 =
2. Persea borbonia	and the characterized and and the second and the second second second second second second second second second	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	40 = Total Cover	Generation 3 - Prevalence Index is ≤3.0' Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20 20% of total cover: 8	
Herb Stratum (Plot size: 30f4 x 30ff)		¹ Indicators of hydric soil and wetland hydrology must
1. none		be present, unless disturbed or problematic. Definitions of Four Vegetation Strata:
23		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4 5		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		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 height.
12		
	= Total Cover	
50% of total cover:	20% of total cover:	•
2		
3		-
4		
5.	= Total Cover	- Hydrophytic Vegetation
50% of total cover:	20% of total cover:	Present? Yes No
Remarks: (If observed, list morphological adaptations		

SOIL

Sampling Point: _____ D31f_ w

Profile Descr	iption: (Describe	to the depth				or confirm	the absence of indicators.)	
Depth <u>Matrix</u>		%	Redox Features Color (moist) % Type ¹ Loc ²		Texture Remarks			
(inches) 0-20	Color (moist)	100			- type		multy sand	
0 20	TETT	100 -			-	131925103		
TRANSPORT OF T				Construction of the				
				T Transform				
Stations States								
	State Contraction Contraction	-		-				
							2	-1
Type: C=Co	ncentration, D=Dep	letion, RM=R	educed Matrix, M	S=Masked	Sand Gra	ains.	² Location: PL=Pore Lining, M=Matr Indicators for Problematic Hydric	
	ndicators: (Applic	able to all LF	Rs, unless othe			RRST		
Histosol Histic Ep	(A1) ipedon (A2)		Thin Dark St				2 cm Muck (A10) (LRR S)	
Black His	stic (A3)		Loamy Muck	y Mineral	(F1) (LRR		Reduced Vertic (F18) (outside	
Hydroger	n Sulfide (A4)		Loamy Gley		(F2)		Piedmont Floodplain Soils (F19	
	Layers (A5) Bodies (A6) (LRR P	р. т. u)	Depleted Ma Redox Dark		6)		(MLRA 153B)	(0)
	cky Mineral (A7) (LRR P		Depleted Da	rk Surface	e (F7)		Red Parent Material (TF2)	
Muck Pre	esence (A8) (LRR L	(ר	Redox Depr	essions (Fi			Very Shallow Dark Surface (TF	-12)
the second s	ck (A9) (LRR P, T)		Marl (F10) (I Depleted Oc			51)	Other (Explain in Remarks)	
() Second Contraction, Contraction of the Contra	I Below Dark Surfac Irk Surface (A12)	26 (ATT)	Depleted Oc				, T) ³ Indicators of hydrophytic veg	
Coast Pr	airie Redox (A16) (I		Umbric Surf	ace (F13) ((LRR P, T	r, U)	wetland hydrology must be j	present,
Sandy M	lucky Mineral (S1) (Delta Ochric				unless disturbed or problem	natic.
St. The second state of	leyed Matrix (S4)		Reduced Ve					
	edox (S5) Matrix (S6)						RA 149A, 153C, 153D)	
Dark Sur	face (S7) (LRR P,							
Restrictive I	Layer (if observed)							1
Type:	shee's						Hydric Soil Present? Yes	No
The Property of the Acceleration of the Second	ches <u>)</u> :				California de		injune contresentri res	
Remarks:								
					R. S.S.S.			



Wetland data point wcmo031f_w facing southeast.



Wetland data point wcmo031f_w facing southwest.

Photo Sheet 1 of 3

Project/Site: ALP City/C	County: Comberland sampling Date: 4/19/16
Applicant/Owner: Dominion	State: NC Sampling Point: Wcm003/e_w
Investigator(s): Li Roper, S. Bryan Secti	
Landform (hillslope, terrace, etc.):Local	relief (concave, convex, none): <u>none</u> Slope (%): <u>0-2</u>
Subregion (LRR or MLRA): LPP P Lat: 34.93	514 Long: -78.74195 Datum: W6584
Soil Map Unit Name: Leon sand	NWI classification: PEM
Are climatic / hydrologic conditions on the site typical for this time of year?	res No / (If ho, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly distu	
Are Vegetation, Soil, or Hydrology naturally problem	
SUMMARY OF FINDINGS – Attach site map showing san	npling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No Remarks: Abnormally dry Conditions	Is the Sampled Area within a Wetland? Yes <u>V</u> No
Powerline FOW	
HYDROLOGÝ	
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) Saturation (A3) Hydrogen Sulfide Odor (방법이 있는 것은 것 같은
Saturation (A3) Hydrogen Sulfide Odor (Water Marks (B1) Oxidized Rhizospheres a	
Sediment Deposits (B2)	
Drift Deposits (B3)	n Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Geomorphic Position (D2)
Iron Deposits (B5) Uther (Explain in Remar	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U)
Vater-Stained Leaves (B9) Field Observations:	
Surface Water Present? Yes No Depth (inches):	NA
Water Table Present? Yes No Depth (inches):	
Saturation Present? Yes V No Depth (inches):	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	avious inspections), il available.
Remarks:	
Remarks.	

wcmo03le.ws

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

	Absolute	Dominar	nt Indicator	Dominance Test worksheet:	and the second second second second	Constant of the
Tree Stratum (Plot size: 30ft x 30ft)			? Status	Number of Dominant Species	7	
1. none				That Are OBL, FACW, or FAC:	3	(A)
2						
3.				Total Number of Dominant Species Across All Strata:	3	(B)
				Species Across Air Strata.	-	(2)
4				Percent of Dominant Species	100	
5		The second second		That Are OBL, FACW, or FAC:		(A/B)
6			-	Prevalence Index worksheet:		
7			-	Total % Cover of:	Multiply by:	
8		Contraction of the		A sector representation of the sector of the	THE RESIDENCE AND ADDRESS OF A DESCRIPTION	
	0	= Total C	over	OBL species x		
50% of total cover:	20% of	total cove	er:	FACW species ×		
Sapling/Shrub Stratum (Plot size: 30ff+30ff)				FAC species ×		
1. none				FACU species x		
2		100000		UPL species x	5 =	<u> </u>
The second se				Column Totals: (A	4)	_ (B)
3						
4				Prevalence Index = B/A =	The second strategies of the second strategies and the second strategies and	<u>-</u> 3.1.3%
5	A Line College		-	Hydrophytic Vegetation Indica	ators:	
6	-		-	1 - Rapid Test for Hydrophy	tic Vegetation	
7		here had		2 - Dominance Test is >50%	%	
8				3 - Prevalence Index is ≤3.0		
	0	= Total C	over	Problematic Hydrophytic Ve	egetation ¹ (Expla	in)
50% of total cover:	Sector accidentization				.gournour (p	
Herb Stratum (Plot size: 30ft x 30ft)				1		must
1. Andropogon virginicus	20	V	FAC	¹ Indicators of hydric soil and we be present, unless disturbed or	problematic.	musi
2. Lobis argutus	20	V	FAC	Definitions of Four Vegetation	and the second state of the second state of the second	and the second
2. Pobus argutus	20		OBL	Definitions of Four Vegetation	i Strata.	
3. Juncus effusus	The states have		000	Tree - Woody plants, excluding	vines, 3 in. (7.6	cm) or
4				more in diameter at breast heigh	ht (DBH), regard	less of
5	-			height.		
6	and a strength		_	Sapling/Shrub - Woody plants	, excluding vines	, less
7				than 3 in. DBH and greater than	1 3.28 ft (1 m) tal	Ι.
8		VERSIO	A CONTRACTOR	Herb – All herbaceous (non-wo	ody) plants, rega	rdless
9				of size, and woody plants less t		
10						
				Woody vine – All woody vines	greater than 3.28	sπin
11		Traffic tori	-	height.		
12	1.0	01101/0101	and the second second	and the second sec	and the second second	
20	The second and the second	= Total C	^		an chine and an area	
50% of total cover: 30	20% of	total cov	er:			
Woody Vine Stratum (Plot size: 30f4 x 30f+)						
1. none	Martine.	febrica de la	<u>a additional</u>			
2	and the second					
3.		Contraction of the second				
4.						
5.		Transcript N.				
5	0	= Total C		Hydrophytic Vegetation		
	CVTRC PARSENCE 1988			Present? Yes	No	
50% of total cover:	20% of	total cov	er:	A STREET, STRE		A. Star
Remarks: (If observed, list morphological adaptations belo	COLOR OF MARKING STREET	LOTAL COV	di			

در _ wew off a sampling Point:

Profile Desc	ription: (Describe	to the depth	needed to docu	ment the i	ndicator	or confirm	the absence of indic	ators.)
Depth (inches)	Matrix Color (moist)	%	Redo Color (moist)	x Feature	sType'	Loc ²	Texture	Remarks
(inches) 0-15	IDYR 2/1	100					mucky Sand	
15-20	1044	100 -		- Anna anna anna anna anna anna anna ann			4	
15-00	10 JE .11	100 -						No. of Concession, Name of
		-		-				
				-		And St. A.		
	and the second second second						A CONTRACTOR OF A CONTRACTOR	
	N. Marshan Marshan	-	Charles Constant	-				
1	Land Strategie							
¹ Type: C=C	oncentration, D=Dep	oletion, RM=F	Reduced Matrix, M	S=Masked	Sand Gr	ains.		e Lining, M=Matrix. blematic Hydric Soils ³ :
	Indicators: (Applic	able to all L					a la companya ang ang ang ang ang ang ang ang ang an	
Histosol	(A1) bipedon (A2)		Polyvalue B				2 cm Muck (A1	
	istic (A3)		Loamy Much				Reduced Vertic	c (F18) (outside MLRA 150A,B)
Hydroge	en Sulfide (A4)		Loamy Gley	ed Matrix				dplain Soils (F19) (LRR P, S, T)
	d Layers (A5)		Depleted Ma		- 01		Anomalous Bri	ght Loamy Soils (F20)
	Bodies (A6) (LRR F ucky Mineral (A7) (L		Redox Dark	of web mention to an the set	Charles and the second second second		Red Parent Ma	
	resence (A8) (LRR L		Redox Depr				Very Shallow	Dark Surface (TF12)
1 cm Mt	uck (A9) (LRR P, T)		Marl (F10) (LRR U)			Other (Explain	in Remarks)
	d Below Dark Surfac	ce (A11)	Depleted Oc				T) ³ Indicators of	hydrophytic vegetation and
	ark Surface (A12) rairie Redox (A16) (MI RA 150A	Iron-Mangar					drology must be present,
	Aucky Mineral (S1)		Delta Ochrid	A PROPERTY OF CONTRACTOR		1		urbed or problematic.
Sandy (Gleyed Matrix (S4)		Reduced Ve					
The second second second second second	Redox (S5)		Piedmont F					
	d Matrix (S6) urface (S7) (LRR P,	S T III		Bright Loa	imy Solis ((F20) (MLF	RA 149A, 153C, 153D)	
	Layer (if observed)			1.11 - 11 - 12 - 12 - 12 - 12 - 12 - 12		2.964.2.2.2.7.4	a manufacture all anna a	1
Type:								
Depth (in	nches):		<u></u>				Hydric Soil Preser	nt? Yes <u>/</u> No
Remarks:						AND STOR		
3.5 1,35								
1. Section 1								
1919								
Sai barren		and Same	and the loss of the	Steria .	A ANA MA		or and the second second	



Wetland data point wcmo031e_w facing southeast.



Wetland data point wcmo031e_w facing southwest.

Photo Sheet 2 of 3

Project/Site: ACP City/C	ounty: <u>Comberland</u> sampling Date: <u>4/19/16</u>
Applicant/Owner: Dominion	State: NC Sampling Point: wcmoD31_u
Investigator(s): L. Roper, S. Bryan Section	n, Township, Range: NONE
Landform (hillslope, terrace, etc.): <u>flat</u> Local	relief (concave, convex, none): none Slope (%): 0-2
Subregion (LRR or MLRA): LFR P Lat: 34,93	526 Long - 78, 74190 Datum: W/r584
Soil Map Unit Name: Leon sand	NWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time of year? Y	
Are Vegetation, Soil, or Hydrology significantly distur	
Are Vegetation, Soil, or Hydrology naturally problema	
SUMMARY OF FINDINGS – Attach site map showing sam	Ipling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	Is the Sampled Area within a Wetland? Yes No
Remarks: Abnormally dry Londition Powerline ROW	S
HYDROLOGÝ	
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)	
Saturation (A3)	이 같은 것이 있는 것이 같은 것이 있는 것이 있는 것이 있는 것이 있다. 🛶 이 것이 것이 같은 것이 같은 것이 없는 것이 같은 것이 같은 것이 같은 것이 같이 있는 것이 있는 것이 있는 것이 있는 것이 같이 있는 것이 있는 것이 없는 것이 없 않이 없다. 것이 없는 것이 없다. 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다. 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다. 것이 없는 것이 없다. 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다. 것이 없는 것이 없는 것이 없는 것이 없는 것이 없이 않이 않이 않이 않다. 것이 없는 것이 없는 것이 없는 것이 없 않이 않이 않이 않이 않이 않다. 것이 없는 것이 있다. 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다. 것이 않이
Water Marks (B1) Oxidized Rhizospheres a Sediment Deposits (B2) Presence of Reduced Iro	
Drift Deposits (B3)	2011년 1월 1911년 1월 19
Algal Mat or Crust (B4)	Geomorphic Position (D2)
Iron Deposits (B5) Other (Explain in Remark	(S) 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:	10
	NA
Water Table Present? Yes No Depth (inches):	
Saturation Present? Yes No Depth (inches):	Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:
Remarks:	
at a second s	

.1:5:

2-11 2014	Absolute Dominant Indicator	Dominance Test worksheet:
STREET, COMPARING AND ADDRESS OF THE OWNER OF THE OWNER OWNER AND ADDRESS OF THE OWNER OWNER.	% Cover Species? Status	Number of Dominant Species 2 (A)
		That Are OBL, FACW, or FAC: (A)
-		Total Number of Dominant 2
•		Species Across All Strata: (B)
		Percent of Dominant Species
		That Are OBL, FACW, or FAC: (A/B)
		Prevalence Index worksheet:
		Total % Cover of: Multiply by:
I	0 = Total Cover	OBL species x 1 =
- 50% of total cover:		FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30ff x 30ff)	20% 01 total cover	FAC species x 3 =
		FACU species x 4 =
none	The second s	UPL species x 5 =
		Column Totals: (A) (B)
		Prevalence Index = B/A =
		Hydrophytic Vegetation Indicators:
		1 - Rapid Test for Hydrophytic Vegetation
T		2 - Dominance Test is >50%
3	0 = Total Cover	3 - Prevalence Index is ≤3.0 ¹
		Problematic Hydrophytic Vegetation ¹ (Explain)
	20% of total cover:	
Herb Stratum (Plot size: 30ft x 30ft) 1. Eupatorium capillifolium	10 N FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Rubus argutus		Definitions of Four Vegetation Strata:
3. Andropoger virginicus		Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Aur robrom	10 N FAC	more in diameter at breast height (DBH), regardless of height.
5. Juncus effusus	20 Y DBL	neight.
3		Sapling/Shrub – Woody plants, excluding vines, less
7		than 3 in. DBH and greater than 3.28 ft (1 m) tall.
B		Herb - All herbaceous (non-woody) plants, regardless
9		of size, and woody plants less than 3.28 ft tall.
10	and a second	Woody vine - All woody vines greater than 3.28 ft in
11		height.
12		
25	70 = Total Cover	
50% of total cover: 35	20% of total cover:	
Noody Vine Stratum (Plot size: 30 ft x 30 ft)		
none	an and a second a substance	
]		
	and the second se	
5	a character a construction of the second second	Hydrophytic /
	= Total Cover	Vegetation
50% of total cover:	20% of total cover:	Present? fes // NO
50% of total cover: Remarks: (If observed, list morphological adaptations below	20% of total cover:	

Sampling Point:

Profile Desc	ription: (Describe	to the depth				or confirm	the absence o	f indicators.)
Depth (inchos)	Matrix Color (moist)	%	Redo Color (moist)	x Features %	s Type ¹	Loc ²	Texture	Remarks
(inches) 0-20	IDYR 4	100 -					5	
<u> </u>	TO TR II					The second second		
				-			10000000000000000000000000000000000000	
		Contraction of the		-	ALCONT AN			
Salar				1.		her sider		
	a har har har har har har har har har ha				-	<u></u>		
					Sucher	Sale of the	and the second	
¹ Type: C=C	oncentration, D=Dep	letion, RM=F	Reduced Matrix, M	S=Masked	Sand Gr	ains.		PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applic	able to all L	RRs, unless othe	rwise not	ed.)			or Problematic Hydric Solls ³ :
Histosol			Polyvalue Be					uck (A9) (LRR O) uck (A10) (LRR S)
	bipedon (A2) stic (A3)		Thin Dark Su Loamy Muck					d Vertic (F18) (outside MLRA 150A,B)
	en Sulfide (A4)		Loamy Gley			,	Piedmo	nt Floodplain Soils (F19) (LRR P, S, T)
Stratifier	d Layers (A5)		Depleted Ma	atrix (F3)			and the second s	lous Bright Loamy Soils (F20)
	Bodies (A6) (LRR F		Redox Dark					A 153B) rent Material (TF2)
	ucky Mineral (A7) (L resence (A8) (LRR L		Depleted Da					nallow Dark Surface (TF12)
Contraction and the state of	Jck (A9) (LRR P, T)	.,	Marl (F10) (statistical cost for the second	-)			Explain in Remarks)
Deplete	d Below Dark Surfac	ce (A11)	Depleted Oc	chric (F11)				
	ark Surface (A12)		Iron-Mangar					ators of hydrophytic vegetation and and hydrology must be present,
	rairie Redox (A16) (Aucky Mineral (S1) (Umbric Surf					ess disturbed or problematic.
	Gleyed Matrix (S4)		Reduced Ve					
Sandy F	Redox (S5)		Piedmont FI	oodplain S	Soils (F19)	(MLRA 14	9A)	
	Matrix (S6)		Anomalous	Bright Loa	my Soils ((F20) (MLR	A 149A, 153C,	153D)
	rface (S7) (LRR P, Layer (if observed)				ana di sin Nga di sin	1923) (1923) (1923) 1933 (1937) (1937)		
Type:								
The Division of Contract of Contract	ches):						Hydric Soil	Present? Yes <u>V</u> No No
Remarks:		and a sublicit			1.11.11.11.11.1	States and a state		a station of the second se
			name in the second second	Sec. and Sec.	A Arristantin	A have been		Sector of the same to react the sector of the



Upland data point wcmo031_u facing north.



Upland data point wcmo031_u facing west.

Project/Site: ACP	City/County: <u>Cumberland</u> Sampling Date: <u>4/19/16</u>
Applicant/Owner: Dominion	State: NC Sampling Point: WCmo 031f-w
Investigator(s): L. Roper, S. Bryan	
Landform (hillslope, terrace, etc.): flut	Local relief (concave, convex, none): <u>none</u> Slope (%): <u>D-2</u>
Subregion (LRR or MLRA): LR R P Lat: 34, 9	13518 Long: -78,74188 Datum: WGS8
Soil Map Unit Name: Leon Sand	,
Are climatic / hydrologic conditions on the site typical for this time of year	in tel 12 Au "No (in no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly of Are Vegetation, Soil, or Hydrology naturally pro	
	sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	Is the Sampled Area within a Wetland? Yes No
Remarks: Abnormally dry condition	۵
NCWAM Hardwood Flat	
HYDROLOGŸ	
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)	사실 것 같은 것 같
High Water Table (A2)	사실 것 같은 것 같
Saturation (A3)	MANE LY 및 사망 한 번째 1 1 2 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2
A second stables and the second statement of th	ion in Tilled Soils (C6)
Algal Mat or Crust (B4)	중에서 방법을 통하는 것을 하는 것을 하는 것을 하는 것을 해야 하는 것을 알려야 한 것을 것을 위해 있는 것을 것을 것을 하는 것을 것을 수 있는 것을 것을 수 있다. 이 것을 가지 않는 것을 가지 👘 👘 가지 않는 것을 것을 수 있다. 이 것을 것을 수 있는 것을 것을 수 있는 것을 것을 수 있는 것을 수 있는 것을 수 있는 것을 수 있다. 이 있는 것을 것을 수 있는 것을 수 있다. 이 있는 것을 수 있다. 이 있는 것을 수 있다. 이 있는 것을 수 있다. 이 있는 것을 수 있다. 이 것을 것을 것을 수 있는 것을 것을 수 있는 것을 것을 수 있는 것 같이 같이 같이 않았다. 것 같이 것 않는 것 같이 것 같이 없다. 것 같이 것 같이 것 같이 같이 것 같이 않았다. 것 같이 것 같이 않았다. 것 같이 것 같이 것 같이 없다. 것 같이 것 같이 것 같이 같이 같이 같이 같이 같이 같이 않았다. 것 같이 것 같이 같이 않았다. 것 같이 않았다. 것 같이 것 같이 같이 않았다. 것 같이 것 같이 같이 않았다. 것 같이 것 같이 않았다. 것 같이 것 않았다. 것 같이 것 같이 같이 않았다. 것 않았다. 것 같이 않았다. 것 같이 않았다. 것 않았다. 것 같이 않았다. 것 않았다. 한
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:	0/0
Surface Water Present? Yes No Depth (inches)	· NA
Water Table Present? Yes No Depth (inches)	
Saturation Present? Yes No Depth (inches) (includes capillary fringe)	: Sw full Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photo	s, previous inspections), if available:
Remarks:	
Normania.	

		NJIP
	NCMD Point:	VJLW
	Delati	
Sampling	Point:	A CONTRACTOR OF A SECOND

VEGETATION (Four Strata) - Use scientific	Sampling Point:	
	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30ft x 30ft) 1. Pinus taeda	<u>% Cover</u> <u>Species?</u> <u>Status</u> 10 Y FAC	Number of Dominant Species 5 (A)
2. Quercus niara	10 Y FAC	Total Number of Dominant
3. Acer rubrohn 4.		Species Across All Strata: (B)
5		Percent of Dominant Species LOD (A/B)
6		Prevalence Index worksheet:
7		Total % Cover of: Multiply by:
8	30 = Total Cover	OBL species x 1 =
50% of total cover:	15 20% of total cover: 6	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30f+ x 30ff)		FAC species x 3 = FACU species x 4 =
1. Aur rubrum	ZO V FACIO	UPL species x 5 =
2. Persea borbonia	and the second	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	40 = Total Cover	□ 3 - Prevalence Index is ≤3.0' □ Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: _	20 20% of total cover: 8	
Herb Stratum (Plot size: 30ff x 30 ff)		¹ Indicators of hydric soil and wetland hydrology must
1. none		be present, unless disturbed or problematic. Definitions of Four Vegetation Strata:
23		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4 5		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		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 height.
12		
	= Total Cover	
50% of total cover:	20% of total cover:	•
2		
3		
4		
5.	= Total Cover	- Hydrophytic Vegetation
50% of total cover:	20% of total cover:	Present? Yes No
Remarks: (If observed, list morphological adaptations	Construction and a second s	

Sampling Point: _____ D31f_ w

Profile Desc	ription: (Describe	to the depth				or confirm	the absence of indicators.)	
Depth (inches)	Matrix Color (moist)	%	Redo Color (moist)	x Features %	s Type'	Loc ²	TextureRe	emarks
(inches) 0-20	ID VR3/1	100			- the		multysand	
0 00	- IF II				-	010000000		
				T CONTRACT				
Station and a						A STREET, STREET, ST		
And the second second	A STREET, AND AND AND AND	-						
		-			-		21	Malin
Type: C=Co	ncentration, D=Dep ndicators: (Applic	able to all	educed Matrix, M	S=Masked	sand Gra	ains.	² Location: PL=Pore Lining, Indicators for Problematic	
Hydric Soil I		Labie to all LF	Rs, unless othe			RR S. T I	a a la compañía de la	
	(A1) vipedon (A2)		Thin Dark Se	urface (S9)) (LRR S,	T, U)	2 cm Muck (A10) (LRR	S)
Black His	stic (A3)		Loamy Muck	ky Mineral	(F1) (LRR		Reduced Vertic (F18) (outside MLRA 150A,B)
	n Sulfide (A4)		Loamy Gley		⊢2)		Piedmont Floodplain So Anomalous Bright Loan	oils (F19) (LRR P, S, T) ny Soils (F20)
	I Layers (A5) Bodies (A6) (LRR P	ν, Τ . U)	Depleted Ma Redox Dark		6)		(MLRA 153B)	
5 cm Mu	cky Mineral (A7) (Li	RR P, T, U)	Depleted Da	ark Surface	e (F7)		Red Parent Material (TI	F2)
Muck Pr	esence (A8) (LRR L	J)	Redox Depr	essions (F			Very Shallow Dark Sur	
	ick (A9) (LRR P, T) Below Dark Surfac		Marl (F10) (I Depleted Oc		(MLRA 1	51)	U Other (Explain in Rema	2110)
() Statistics and the second secon	ark Surface (A12)		Iron-Mangar	nese Mass	es (F12) (LRR O, P,	,T) ³ Indicators of hydroph	
Coast Pi	rairie Redox (A16) (I		Umbric Surf	ace (F13) ((LRR P, T	r, U)	wetland hydrology n	nust be present,
	lucky Mineral (S1) ((LRR O, S)	Delta Ochric				unless disturbed or	problematic.
The second second second second second	Bleyed Matrix (S4) Redox (S5)		Reduced Ve					
	Matrix (S6)						RA 149A, 153C, 153D)	
Dark Su	rface (S7) (LRR P,							
	Layer (if observed)):						1
Type:	ches):						Hydric Soil Present? Ye	NoNo
Remarks:		the local sector strategies of						
l ionaria.								
S. Sale Mark								
2000-1993								
A MANAGER AND			and the State of California and the	N. BARKESSICH	A CRAME AND AN	000002200022	A REAL PROPERTY AND A REAL	11.43***********************************



Wetland data point wcmo031f_w facing southeast.



Wetland data point wcmo031f_w facing southwest.

Photo Sheet 1 of 3

Project/Site: ALP City/C	County: Comberland sampling Date: 4/19/16
Applicant/Owner: Dominion	State: NC Sampling Point: Wcm003/e_w
Investigator(s): Li Roper, S. Bryan Secti	
Landform (hillslope, terrace, etc.): <u>flat</u>	relief (concave, convex, none): <u>none</u> Slope (%): <u>0-2</u>
Subregion (LRR or MLRA): LPP P Lat: 34.93	514 Long: -78.74195 Datum: W6584
Soil Map Unit Name: Leon sand	NWI classification: PEM
Are climatic / hydrologic conditions on the site typical for this time of year?	res No / (If ho, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly distu	
Are Vegetation, Soil, or Hydrology naturally problem	
SUMMARY OF FINDINGS – Attach site map showing san	npling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No Remarks: Abnormally dry Conditions	Is the Sampled Area within a Wetland? Yes <u>V</u> No
Powerline FOW	
HYDROLOGÝ	
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) Saturation (A3) Hydrogen Sulfide Odor (방법이 있는 것은 것 같은
Saturation (A3) Hydrogen Sulfide Odor (Water Marks (B1) Oxidized Rhizospheres a	
Sediment Deposits (B2)	
Drift Deposits (B3)	n Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Geomorphic Position (D2)
Iron Deposits (B5) Uther (Explain in Remar	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U)
Vater-Stained Leaves (B9) Field Observations:	
Surface Water Present? Yes No Depth (inches):	NA
Water Table Present? Yes No Depth (inches):	
Saturation Present? Yes V No Depth (inches):	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	avious inspections), il available.
Remarks:	
Nemars.	

wcmo03le.ws

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

	Absolute	Dominar	nt Indicator	Dominance Test worksheet:	and the second second second second	CALCULAR AND IN
Tree Stratum (Plot size: 30ft x 30ft)			? Status	Number of Dominant Species	7	
1. none				That Are OBL, FACW, or FAC:	3	(A)
2						
3.				Total Number of Dominant Species Across All Strata:	3	(B)
				Species Across Air Strata.	-	(2)
4				Percent of Dominant Species	100	
5		The second second		That Are OBL, FACW, or FAC:		(A/B)
6			-	Prevalence Index worksheet:		
7			-	Total % Cover of:	Multiply by:	
8		Contraction of the		A sector representation of the sector of the	THE RESIDENCE AND ADDRESS OF A DESCRIPTION	
	0	= Total C	over	OBL species x		
50% of total cover:	20% of	total cove	er:	FACW species ×		
Sapling/Shrub Stratum (Plot size: 30ff+30ff)				FAC species ×		
1. none				FACU species x		
2		100000		UPL species x	5 =	<u> </u>
The second se				Column Totals: (A	4)	_ (B)
3						
4				Prevalence Index = B/A =	The second strategies of the second strategies and the second strategies and	<u>-</u> 3.1.3%
5	A Line College		-	Hydrophytic Vegetation Indica	ators:	
6	-		-	1 - Rapid Test for Hydrophy	tic Vegetation	
7		here had		2 - Dominance Test is >50%	%	
8				3 - Prevalence Index is ≤3.0		
	0	= Total C	over	Problematic Hydrophytic Ve	egetation ¹ (Expla	in)
50% of total cover:	Sector accidentization				.gournour (p	
Herb Stratum (Plot size: 30ft x 30ft)				1. It is a set of huddle cell and use		must
1. Andropogon virginicus	20	V	FAC	¹ Indicators of hydric soil and we be present, unless disturbed or	problematic.	musi
2. Lobis argutus	20	V	FAC	Definitions of Four Vegetation	and the second state of the second state of the second	and the second
2. Pobus argutus	20		OBL	Definitions of Four Vegetation	i Strata.	
3. Juncus effusus	The states have		000	Tree - Woody plants, excluding	vines, 3 in. (7.6	cm) or
4				more in diameter at breast heigh	ht (DBH), regard	less of
5	-			height.		
6	and a strength		_	Sapling/Shrub - Woody plants	, excluding vines	, less
7				than 3 in. DBH and greater than	1 3.28 ft (1 m) tal	l.
8		NE STAT	A CONTRACTOR	Herb – All herbaceous (non-wo	ody) plants, rega	rdless
9				of size, and woody plants less t		
10						
				Woody vine – All woody vines	greater than 3.28	sπin
11		Traffic tori	-	height.		
12	1.0	(01100 / D100/	and the second second	and the second sec	and the second second	
20	The second and the second	= Total C	^		an chine and an area	
50% of total cover: 30	20% of	total cov	er:			
Woody Vine Stratum (Plot size: 30f4 x 30f+)						
1. none	Martine.	febrica de la	<u>a additional</u>			
2	and the second					
3.		Contraction of the second				
4.						
5.		Transcript N.				
5	0	= Total C		Hydrophytic Vegetation		
	CVTRC PARSENCE 1988			Present? Yes	No	
50% of total cover:	20% of	total cov	er:	A STREET, STRE		N-Star
Remarks: (If observed, list morphological adaptations belo	COLOR OF MARKING STREET	LOTAL COV	di			

در _ wew off a sampling Point:

Profile Desc	ription: (Describe	to the depth	needed to docu	ment the i	ndicator	or confirm	the absence of indic	ators.)	
Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist) %Y			Loc ²	Texture Remarks		
(inches) 0-15	IDYR 2/1	100					mucky Sand		
15-20	1044	100 -		- Arrent arrest			4		
15-00	10 JE .11	100 -						No. of Concession, Name of	
		-		-					
				-		And St. A.			
	and the second second second						A CONTRACTOR OF THE OWNER OF		
	N. Marshan Marshan	-	Charles Constant	-					
1	Land Strategie								
¹ Type: C=C	oncentration, D=Dep	oletion, RM=F	Reduced Matrix, M	S=Masked	Sand Gr	ains.		e Lining, M=Matrix. blematic Hydric Soils ³ :	
	Indicators: (Applic	able to all L					a la companya ang ang ang ang ang ang ang ang ang an		
Histosol	(A1) bipedon (A2)		Polyvalue B				2 cm Muck (A1		
	istic (A3)		Loamy Much				Reduced Vertic	c (F18) (outside MLRA 150A,B)	
Hydroge	en Sulfide (A4)		Loamy Gley	ed Matrix				dplain Soils (F19) (LRR P, S, T)	
	d Layers (A5)		Depleted Ma		- 01		Anomalous Bri	ght Loamy Soils (F20)	
	Bodies (A6) (LRR F ucky Mineral (A7) (L		Redox Dark	the weather manufacture and the state of the	Charles and the second second second		Red Parent Ma		
	resence (A8) (LRR L		Redox Depr				Very Shallow	Dark Surface (TF12)	
1 cm Mt	uck (A9) (LRR P, T)		Marl (F10) (LRR U)			Other (Explain	in Remarks)	
	d Below Dark Surfac	ce (A11)	Depleted Oc				T) ³ Indicators of	hydrophytic vegetation and	
	ark Surface (A12) rairie Redox (A16) (MI RA 150A	Iron-Mangar					drology must be present,	
	Aucky Mineral (S1)		Delta Ochrid	A PROPERTY OF CONTRACTOR		1. (1. (1. (1. (1. (1. (1. (1. (1. (1. (urbed or problematic.	
Sandy (Gleyed Matrix (S4)		Reduced Ve						
The second second second second second	Redox (S5)		Piedmont F						
	d Matrix (S6) urface (S7) (LRR P,	S T III		Bright Loa	imy Solis ((F20) (MLF	RA 149A, 153C, 153D)		
	Layer (if observed)			1.11 - 11 - 12 - 12 - 12 - 12 - 12 - 12		2.964.2.2.2.7.4	a manufacture all anna a	1	
Type:									
Depth (ir	nches):		<u></u>				Hydric Soil Preser	nt? Yes <u>/</u> No	
Remarks:						AND STOR			
3.5 1,35									
1.0									
1919									
Sai barren		and Same	and the lose of the	Steria .	A ANA MA		or and the second second		



Wetland data point wcmo031e_w facing southeast.



Wetland data point wcmo031e_w facing southwest.

Photo Sheet 2 of 3

Project/Site: ACP City/C	ounty: <u>Cumberland</u> sampling Date: <u>4/19/16</u>
Applicant/Owner: Dominion	State: NC Sampling Point: wcmoD31_u
Investigator(s): L. Roper, S. Bryan Section	n, Township, Range: NONE
Landform (hillslope, terrace, etc.): <u>flat</u> Local	relief (concave, convex, none): none Slope (%): 0-2
Subregion (LRR or MLRA): LFR P Lat: 34,93	526 Long: -78, 74190 Datum: W/r584
Soil Map Unit Name: Leon sand	NWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time of year? Y	
Are Vegetation, Soil, or Hydrology significantly distur	
Are Vegetation, Soil, or Hydrology naturally problema	
SUMMARY OF FINDINGS – Attach site map showing sam	Ipling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	Is the Sampled Area within a Wetland? Yes No
Remarks: Abnormally dry Londition Powerline ROW	S
HYDROLOGÝ	
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)	
Saturation (A3)	이 같은 것이 있는 것이 같은 것이 있는 것이 있는 것이 있는 것이 있다. 🛶 이 것이 것이 같은 것이 같은 것이 없는 것이 같은 것이 같은 것이 같은 것이 같이 있는 것이 있는 것이 있는 것이 있는 것이 같이 있는 것이 있는 것이 없는 것이 없 않이 없다. 것이 없는 것이 없다. 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다. 것이 없는 것이 없다. 것이 없는 것이 없다. 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다. 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다. 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다. 것이 없는 것이 없 않는 것이 없는 것이 없는 것이 없다. 것이 없는 것이 없는 것이 없는 것이 없다. 것이 없는 것이 없는 것이 없는 것이 없 않이 않는 것이 없다. 것이 없는 것이 없는 것이 없다. 것이 없는 것이 없는 것이 없는 것이 없다. 것이 없는 것이 없는 것이 없다. 것이 없는 것이 없는 것이 없다. 것이 없는 것이 없 않이
Water Marks (B1) Oxidized Rhizospheres a Sediment Deposits (B2) Presence of Reduced Iro	
Drift Deposits (B3)	2011년 1월 1911년 1월 19
Algal Mat or Crust (B4)	Geomorphic Position (D2)
Iron Deposits (B5) Other (Explain in Remark	(S) 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:	10
	NA
Water Table Present? Yes No Depth (inches):	
Saturation Present? Yes No Depth (inches):	Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:
Remarks:	
at a second s	

.1:5:

2-11 2014	Absolute Dominant Indicator	Dominance Test worksheet:
STREET, COMPARING AND ADDRESS OF THE OWNER OF THE OWNER OWNER AND ADDRESS OF THE OWNER OWNER.	% Cover Species? Status	Number of Dominant Species 2 (A)
		That Are OBL, FACW, or FAC: (A)
-		Total Number of Dominant 2
•		Species Across All Strata: (B)
		Percent of Dominant Species
		That Are OBL, FACW, or FAC: (A/B)
		Prevalence Index worksheet:
		Total % Cover of: Multiply by:
I	0 = Total Cover	OBL species x 1 =
- 50% of total cover:		FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30ff x 30ff)	20% 01 total cover	FAC species x 3 =
		FACU species x 4 =
none	The second s	UPL species x 5 =
-		Column Totals: (A) (B)
		Prevalence Index = B/A =
		Hydrophytic Vegetation Indicators:
		A - Rapid Test for Hydrophytic Vegetation
T		2 - Dominance Test is >50%
3	0 = Total Cover	3 - Prevalence Index is ≤3.0 ¹
		Problematic Hydrophytic Vegetation ¹ (Explain)
	20% of total cover:	
Herb Stratum (Plot size: 30ft x 30ft) 1. Eupatorium capillifolium	10 N FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Rubus argutus		Definitions of Four Vegetation Strata:
3. Andropoger virginicus		Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Aur robrom	10 N FAC	more in diameter at breast height (DBH), regardless of height.
5. Juncus effusus	20 Y DBL	neight.
3		Sapling/Shrub – Woody plants, excluding vines, less
7		than 3 in. DBH and greater than 3.28 ft (1 m) tall.
B		Herb - All herbaceous (non-woody) plants, regardless
9		of size, and woody plants less than 3.28 ft tall.
10	and a second	Woody vine - All woody vines greater than 3.28 ft in
11		height.
12		
25	70 = Total Cover	
50% of total cover: 35	20% of total cover:	
Noody Vine Stratum (Plot size: 30 ft x 30 ft)		
none	an and a consider a substance	
]		
	and the second se	
5	a character a construction of the second second	Hydrophytic /
	= Total Cover	Vegetation
50% of total cover:	20% of total cover:	Present? fes // NO
50% of total cover: Remarks: (If observed, list morphological adaptations below	20% of total cover:	

Sampling Point:

Profile Desc	ription: (Describe	to the depth				or confirm	the absence o	f indicators.)
Depth (inchos)	Matrix Color (moist)	%	Redo Color (moist)	x Features %	s Type ¹	Loc ²	Texture	Remarks
(inches) 0-20	IDYR 4	100 -					5	
<u> </u>	TO TR II					The second second		
				-			10000000000000000000000000000000000000	
		Contraction of the		-	ALCONT AND			
Salar				1.		her sider		
	a har har har har har har har har har ha				-	<u></u>		
					Suches	Sale of the	and the second	
¹ Type: C=C	oncentration, D=Dep	letion, RM=F	Reduced Matrix, M	S=Masked	Sand Gr	ains.		PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applic	able to all L	RRs, unless othe	rwise not	ed.)			or Problematic Hydric Solls ³ :
Histosol			Polyvalue Be					uck (A9) (LRR O) uck (A10) (LRR S)
	bipedon (A2) stic (A3)		Thin Dark Su Loamy Muck					d Vertic (F18) (outside MLRA 150A,B)
	en Sulfide (A4)		Loamy Gley			,	Piedmo	nt Floodplain Soils (F19) (LRR P, S, T)
Stratifier	d Layers (A5)		Depleted Ma	atrix (F3)			and the second s	lous Bright Loamy Soils (F20)
	Bodies (A6) (LRR F		Redox Dark					A 153B) rent Material (TF2)
	ucky Mineral (A7) (L resence (A8) (LRR L		Depleted Da					nallow Dark Surface (TF12)
Contraction and the state of	Jck (A9) (LRR P, T)	.,	Marl (F10) (statistical city for the second	-)			Explain in Remarks)
Deplete	d Below Dark Surfac	ce (A11)	Depleted Oc	chric (F11)				
	ark Surface (A12)		Iron-Mangar					ators of hydrophytic vegetation and and hydrology must be present,
	rairie Redox (A16) (Aucky Mineral (S1) (Umbric Surf					ess disturbed or problematic.
	Gleyed Matrix (S4)		Reduced Ve					
Sandy F	Redox (S5)		Piedmont FI	oodplain S	Soils (F19)	(MLRA 14	9A)	
	Matrix (S6)		Anomalous	Bright Loa	my Soils ((F20) (MLR	A 149A, 153C,	153D)
	rface (S7) (LRR P, Layer (if observed)				ana di sin Nga di sin	1923) 1323 (1323) 1737 (1323) 1323 (1323) 1737 (1323) 1323 (1323)		
Type:								
The Division of Contract of Contract	ches):						Hydric Soil	Present? Yes <u>V</u> No No
Remarks:		and a sublem			10.00	120112		a station of the second se
			name and a	Sec. and Sec.	A Arristantin	A have been		Sector of the same to react the sector of the



Upland data point wcmo031_u facing north.



Upland data point wcmo031_u facing west.

Project/Site: <u>ACP</u> City/C	county: <u>Comberland</u> Sampling Date: 4/7/16
Applicant/Owner: Dominion	State: NC Sampling Point: wimo029e_u
Investigator(s): L. Roper, S. Bryan Section	on, Township, Range: <u>none</u>
Landform (hillslope, terrace, etc.); Corolina Bay Local	relief (concave, convex, none): <u>Aone</u> Slope (%): <u>0-21</u> ,
Subregion (LRR or MLRA): LRRT Lat: 34,928	37 1000: -78.74673 Datum: WGS84
Sublegion (LRR of MLRA). <u>CITE I</u> Lat. <u>CITE I</u>	NWI classification: PEM
Soil Map Unit Name: Croatan muck	
Are climatic / hydrologic conditions on the site typical for this time of year? Y	es No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly distur	
Are Vegetation, Soil, or Hydrology naturally problema	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	ppling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	Is the Sampled Area within a Wetland? Yes No
Remarks:	
abnormally dry ronditions	
HYDROLOGŸ	
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)	[이었다 그는 것 같은 것 같
Saturation (A3)	
Water Marks (B1) Oxidized Rhizospheres a	이것이 것은 것이 가지 두 집에 가지 않는 것이 같이 다. 이 것이 같이 ㅠㅠ 이 위에 가지 않는 것이 같이 많이 많이 많이 가지 않는 것이 같이 가지 않는 것이 같이 하는 것이 같이 같이 많이 많이 같이 같이 많이 많이 많이 없다.
Sediment Deposits (B2)	
Drift Deposits (B3) Recent Iron Reduction in Algal Mat or Crust (B4) Thin Muck Surface (C7)	Geomorphic Position (D2)
Iron Deposits (B5)	이 물건이 있는 것 같은 것 같은 것 같은 것 같은 집들을 위해 비행하게 가지 않는 것을 알았다. 이 가지 않는 것 같은 것 같
Inundation Visible on Aerial Imagery (B7)	EAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes No Depth (inches):	
Saturation Present? Yes No Depth (inches): <u>61</u> (includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), il available.
Remarks:	

Sampling Point:

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

	Absolute Deminert Indiant	Dominance Test worksheet:
Tree Stratum (Plot size: 30 Ft x 30 Ft)	Absolute Dominant Indicator % Cover Species? Status	
	a serie is not a final series of a series and an an an and the series of the series of the series of the series	Number of Dominant Species (A)
1. None		That Ale OBL, FACIN, OF FAC (A)
2		Total Number of Dominant 3
3	and the second sec	Species Across All Strata: (B)
4.		
5.		Percent of Dominant Species
化丁基乙酰基 经资料 化化学 化合物 化合物 化合物 化子子分配 化合物 化自动分子分子 人名英格兰人姓氏布尔特的变体		That Are OBL, FACW, or FAC: (A/B)
6		Prevalence Index worksheet:
7		Total % Cover of: Multiply by:
8		The second of a previous term to second or an and the second of the seco
	D = Total Cover	OBL species x 1 =
50% of total cover:	20% of total cover:	FACW species x 2 =
a in the last in the second and the second		FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 30 Ft x 30 Ft)		FACU species x 4 =
1. none		UPL species x 5 =
2		All and the second s
3.		Column Totals: (A) (B)
4		Developes Index - D/A -
		Prevalence Index = B/A =
5		Hydrophytic Vegetation Indicators:
6	The second se	Rapid Test for Hydrophytic Vegetation
7		2 - Dominance Test is >50%
8.		3 - Prevalence Index is ≤3.0 ¹
	0 = Total Cover	
		Problematic Hydrophytic Vegetation ¹ (Explain)
	20% of total cover:	
Herb Stratum (Plot size: 30 Ft x 30 Ft)		¹ Indicators of hydric soil and wetland hydrology must
1. Typha latifolia	10 Y OBL	be present, unless disturbed or problematic.
2. Junius effusus	30 Y OBL	Definitions of Four Vegetation Strata:
3. Andropogon glemeratus	10 Y FACW	
		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		
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
		height.
11		neight.
12		
	50 = Total Cover	
50% of total cover: 25	20% of total cover:D	
Woody Vine Stratum (Plot size: 30 ft × 30 ft)		
1. NONE		
2		
3.		
4		
0	0	Hydrophytic
	= Total Cover	Vegetation Present? Yes No
50% of total cover:	20% of total cover:	Present res v No
Remarks: (If observed, list morphological adaptations bel	ow)	
Remarks. (il observed, list morphological adaptations bei		
Varalitica bas bas		2/10 -1 1
vegetation nos pee	n sprayed	Wherbilido.
	1 10	
dead Morella cerifica, L	vonia lucida. e.	t. Shrbs in DAW
cao monta contrata, a		FUW

Sampling Point: ____

Profile Desc	ription: (Describe	to the depth n	eeded to docum	nent the i	ndicator	or confirm	the absence of ir	ndicators.)
Depth	Matrix		Redo	x Features	S			
(inches)	Color (moist)	Contraction and the real of the service of the serv	Color (moist)		ype'	_Loc ²	Texture	Remarks
0-18	2.5 12.5/1	100					muck	
-					State La	100 BALL		
					-			
	and the second second							
¹ Type: C=C	oncentration, D=Dep	oletion, RM=Re	duced Matrix, MS	S=Masked	I Sand Gra	ains.	² Location: PL=	Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applic	able to all LR	Rs, unless other	rwise not	ed.)		C C C C C C C C C C C C C C C C C C C	Problematic Hydric Soils ³ :
Histosol			Polyvalue Be Thin Dark Su					< (A9) (LRR O) < (A10) (LRR S)
	pipedon (A2) istic (A3)	-	Loamy Muck					Vertic (F18) (outside MLRA 150A,B)
Hydroge	en Sulfide (A4)]	Loamy Gleye	ed Matrix (Piedmont I	Floodplain Soils (F19) (LRR P, S, T)
Stratifie	d Layers (A5)		Depleted Ma	AND STREET, ST	101		CARD AND A REAL PROPERTY AND A REAL PROPERTY.	s Bright Loamy Soils (F20)
	Bodies (A6) (LRR P ucky Mineral (A7) (LI		Redox Dark				(MLRA 1 Red Paren	153B) nt Material (TF2)
	resence (A8) (LRR L		Redox Depre	essions (F			Very Shall	low Dark Surface (TF12)
1 cm Mi	uck (A9) (LRR P, T)		Marl (F10) (L	RR U)				plain in Remarks)
12 Contract Contract In Con	d Below Dark Surface	ce (A11)	Depleted Oc Iron-Mangan				T) ³ Indicator	rs of hydrophytic vegetation and
	ark Surface (A12) rairie Redox (A16) (MLRA 150A)	Umbric Surfa					d hydrology must be present,
Sandy N	Mucky Mineral (S1) (Delta Ochric	(F17) (ML	LRA 151)		unless	disturbed or problematic.
In the second state of the second state of the second	Gleyed Matrix (S4)		Reduced Ve					
1. Second Street Statistics and Street	Redox (S5) d Matrix (S6)		Piedmont Flo				9A) A 149A, 153C, 15	3D)
the second	urface (S7) (LRR P,	S, T, U)						
	Layer (if observed)							
Туре:			-					
1/2 // Public All Michael Col	nches):		-	Children .			Hydric Soil Pre	esent? Yes <u>V</u> No
Remarks:								



Wetland data point wcmo024e_w facing north.



Wetland data point wcmo024e_w facing west.

Photo Sheet 1 of 3

Project/Site: <u>ACP</u> Cit	y/County: Comberland Sampling Date: 4/116
Applicant/Owner: Dominion	State: NC Sampling Point: WEMOD24F_U
Investigator(s): L. Roper, S. Bryan Se	ection, Township, Range: <u>NONE</u>
Landform (hillslope, terrace, etc.): Corolina Bay Lo	cal relief (concave, convex, none): <u>none</u> Slope (%): <u>D-21</u>
Subregion (LRR or MLRA): LRR T Lat: 34, 9	Z829 Long: -78.74653 Datum: W1589
Soil Map Unit Name: Croatan muck	NWI classification: PFO
Are climatic / hydrologic conditions on the site typical for this time of year	
Are Vegetation, Soil, or Hydrology significantly dis	sturbed? Are "Normal Circumstances" present? Yes Vo
Are Vegetation, Soil, or Hydrology naturally problem	ematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing s	ampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	Is the Sampled Area within a Wetland? Yes No
Remarks: abnormally dry conditions NCWAM: Pocosin	
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) Marl Deposits (B15) (2018 - 2019 - 19 - 19 - 19 - 19 - 19 - 19 - 19 -
Saturation (A3)	2012년 1월 18일 - 18일 - 19일 - 19g - 19
	es along Living Roots (C3) 🔲 Dry-Season Water Table (C2)
Sediment Deposits (B2)	가는 사람이 이것에 들었다. 것은 것에서 안전 것은 것은 것은 것은 것은 것은 것이 같은 것이 같은 것에서 가지 않는 사람이 가지 않는 것에서 가지 않는 것이 같은 것이 없는 것이 것을 것을 수 있다. 것이 것이 같은 것이 같은 것이 같이 없는 것이 없다. 것이 없는 것이 없다. 것이 없는 것이 없다. 것이 없는 것이 없다. 것이 없는 것이 않이
Drift Deposits (B3)	
Algal Mat or Crust (B4) Iron Deposits (B5) Dther (Explain in Ren	2 TARLET COM CARE AND
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:	0
Surface Water Present? Yes No Depth (inches):	NH
Water Table Present? Yes V No Depth (inches):	Switcher
Saturation Present? Yes Ves No Depth (inches):	Surface Wetland Hydrology Present? Yes V No
Describe Recorded Data (stream gauge, monitoring well, aerial photos,	previous inspections), if available:
Remarks:	

ree Stratum (Plot size: 30 ft x 30 ft)		Dominant Species?		Dominance Test worksheet:	-
Pinus tueda	ID	N	FAC	Number of Dominant Species That Are OBL, FACW, or FAC:	(A)
	30	Y	OBL	Total Number of Dominant	-
Acer rubrum	10	N	FAC	Species Across All Strata:	<u>5</u> (B)
Liniodendron tulipitera	10	N	FACU	Percent of Dominant Species	100
				That Are OBL, FACW, or FAC:	00 (A/B)
	COLUMN TWO	PIECESSO DESIGN		Prevalence Index worksheet: Total % Cover of: M	Aultioly by:
				OBL species x1=	
		= Total Cov		FACW species x 2 =	
50% of total cover: 30	20% of	total cover	12	FAC species x 2 =	
apling/Shrub Stratum (Plot size: 30 ft x 30 ft)		N		FACU species x 4 =	
Aur rubrum	20	- <u>y</u>	FAC	UPL species x 5 =	
Lyonia lucida	30	<u> </u>	FACW	Column Totals: (A)	
Cyrilla racemiflora	10	N	FACW		
Morella cerifera		_10	FAC	Prevalence Index = B/A =	
			通信的 化合同的	Hydrophytic Vegetation Indicator	
	Alterative potential	Sectional and the section of the sec	Score Constant Score of Constant	1 Rapid Test for Hydrophytic	Vegetation
				2 - Dominance Test is >50%	
a series and a series of the	75	= Total Cov		\square 3 - Prevalence Index is $\leq 3.0^{1}$	the shares
50% of total cover: 35				Problematic Hydrophytic Veget	ation' (Explain)
erb Stratum (Plot size: 30ft x 30ft)				¹ Indicators of hydric soil and wetlan	d hydrology must
Osmundastrum linnamomeum	10	<u> </u>	FACU	be present, unless disturbed or prol	CONSIGNATION CONTRACTOR STATEMENTS
		- Section Contractor		Definitions of Four Vegetation St	rata:
	The support of the second		STREET, MARKEN STREET,	Tree – Woody plants, excluding vin more in diameter at breast height (I	es, 3 in. (7.6 cm) or OBH) regardless of
			的过去式和可的法的过去	height.	,
				Sapling/Shrub – Woody plants, ex than 3 in. DBH and greater than 3.2	cluding vines, less 28 ft (1 m) tall.
•				Herb - All herbaceous (non-woody)) plants, regardless
				of size, and woody plants less than	
0 1				Woody vine – All woody vines great height.	iter than 3.28 ft in
2	10	- 74-10			
50% of total cover:		= Total Cov f total cover			
50% of total cover:	20% 01	total cover			
Voody Vine Stratum (Plot size: 30 ft x 30 ft)	1-	Y	FAC		
Smilax rotunditolia	15		FIIC		
•	Total States		Constanting of the		
·			100 Harris 100		
•	Contract of the				
•				Hydrophytic	
_		= Total Co	Street of the second states	Vegetation Present? Yes	No
50% of total cover:	5 20% 0	f total cover	:		A COMPANY OF THE
Remarks: (If observed, list morphological adaptations belo	w).		2.34635.1415		

ofile Desc	ription: (Describe	to the depth	needed to docu	ment the i	ndicator	or confirm	n the absence o	f indicators.)
epth	Matrix		Redo	x Features	s			
nches)	Color (moist)		Color (moist)	%	_Type ¹	Loc ²		Remarks
)-20	2.542.0/1	100		-			muck.	
States and			K. P. S. Oken,	<u>.</u>				
				_				
				<u>A destructure</u>	Nelles de			ter se al la serie de la sector de la sector de la
vpe: C=C	oncentration, D=Dep	letion, RM=R	educed Matrix, M	S=Masked	d Sand Gr	ains.		PL=Pore Lining, M=Matrix.
ydric Soil	Indicators: (Applic	able to all L	RRs, unless othe	rwise not	ed.)			or Problematic Hydric Soils ³ :
Histosol			Polyvalue B					uck (A9) (LRR O)
CONTRACTOR STORES	bipedon (A2)		Thin Dark S					uck (A10) (LRR S) d Vertic (F18) (outside MLRA 150A,I
Black Hi	stic (A3) en Sulfide (A4)		Loamy Much			. 0)		nt Floodplain Soils (F19) (LRR P, S, T
A REAL PROPERTY AND A REAL PROPERTY.	d Layers (A5)		Depleted Ma		·· -/			lous Bright Loamy Soils (F20)
Organic	Bodies (A6) (LRR P		Redox Dark	Creation of Calendary Andrews	States of the second second			A 153B)
 December and the latent and 	ucky Mineral (A7) (L		Depleted Da		10 10 10 1 10 1 10 1 10 1			rent Material (TF2) nallow Dark Surface (TF12)
	resence (A8) (LRR L uck (A9) (LRR P, T)	(נ	Redox Depr		8)			Explain in Remarks)
All the second second second second	d Below Dark Surfac	e (A11)	Depleted Or		(MLRA 1	51)		
Contractory and the first of the first	ark Surface (A12)		Iron-Manga	nese Mass	es (F12)	LRR O, P		ators of hydrophytic vegetation and
	rairie Redox (A16) (; U)		and hydrology must be present, ess disturbed or problematic.
The work with the state of	Aucky Mineral (S1) (LRR O, S)	Delta Ochrie Reduced Ve			0A 150B		ess disturbed of problematic.
	Gleyed Matrix (S4) Redox (S5)		Piedmont F		THE COMPANY OF THE REPORT			
(1) (1) (1) (2) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	Matrix (S6)						RA 149A, 153C,	153D)
	urface (S7) (LRR P,		R in the lines.	di Tinaki	here were here	Million Maria	-	a de la casa de la cas
	Layer (if observed)):						,
Type:	iches):		<u> </u>				Hydric Soil	Present? Yes No
lemarks:							1.9	
emarka.								



Wetland data point wcmo024f_w facing northeast.



Wetland data point wcmo024f_w facing west.

	City/County: <u>Cumberland</u> Sampling Date: <u>417116</u>
Project/Site: ALP	City/County: <u>COTY TDer tory C</u> Sampling Date: <u>MCmo DZ4_m</u> State: <u>NC</u> Sampling Point: <u>Cmo DZ4_m</u>
Applicant/Owner: Dominion	
Investigator(s): Likoper, S. Bryan	Section, Township, Range:
Landform (hillslope, terrace, etc.): Coronna Day	Local relief (concave, convex, none): <u>NONE</u> Slope (%): <u>D-Z</u>
Subregion (LRR or MLRA): LRK [Lat! Lat!	92832 Long: -78.74666 Datum: W6589
Soil Map Unit Name: Croatan muck	
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 significantly	
Are Vegetation, Soil, or Hydrology naturally p	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 No Wetland Hydrology Present? Yes No	Is the Sampled Area within a Wetland? Yes <u>No</u>
Remarks: abnormally dry conditions powerline Access rd	
HYDROLOGÝ	
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)	아파 사람들이 잘 하는 것 같은 것 같은 것 같은 것 같은 것 같은 것 같이 같이 않는 것을 수 있는 것 같은 것 같
High Water Table (A2)	이 것을 수 이번 방법을 받았는 것 같은 것은 것은 것은 것은 것은 것은 것은 것을 알았다. 이 방법은 것을 방법을 위해 방법을 얻는 방법을 받았는 방법은 이상 것을 것을 못 했다. 것은 것은 것은 것을 것을 수 있는 것을 것을 수 있다. 것을 것을 수 있는 것을 것을 것을 수 있는 것을 것을 것을 것을 수 있는 것을 것을 것을 것을 것을 수 있다. 것을 것을 것을 것을 것을 것을 것을 수 있는 것을 것을 것을 것을 것을 것을 것을 수 있는 것을
Saturation (A3)	Odor (C1) Moss Trim Lines (B16) heres along Living Roots (C3) Dry-Season Water Table (C2)
Water Marks (B1) Oxidized Rhizospi Sediment Deposits (B2) Presence of Redu	
	ction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surfac	
Iron Deposits (B5)	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U)
Water-Stained Leaves (B9)	
Field Observations: Surface Water Present? Yes No Depth (inche	s): <u> </u>
Water Table Present? Yes No Depth (inche	
Saturation Present? Yes No Depth (inche (includes capillary fringe)	1.6
Describe Recorded Data (stream gauge, monitoring well, aerial pho	tos, previous inspections), if available:
Remarks:	

wenobzy_u Sampling Point: _

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

2-51 2551	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30ff x 30ff</u>) 1. <u>none</u>	<u>% Cover Species?</u> Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2		Total Number of Dominant Species Across All Strata:(B)
4		Percent of Dominant Species That Are OBL, FACW, or FAC:(A/B)
6	and the horizon and the	Prevalence Index worksheet:
7		Total % Cover of: Multiply by:
8		OBL species x1 =
	= Total Cover	FACW species x 2 =
	20% of total cover:	FAC species x3 =
Sapling/Shrub Stratum (Plot size: 30 ftx 30 ft)		
1. hone	A REAL PROPERTY AND A REAL OF	FACU species x 4 = UPL species x 5 =
2	and a second second	
3.		Column Totals: (A) (B)
4.	the start which we set the	Prevalence Index = B/A =
5.	a de la calencia de la como	Hydrophytic Vegetation Indicators:
6		1 - Rapid Test for Hydrophytic Vegetation
7		2 - Dominance Test is >50%
8.		\square 3 - Prevalence Index is $\leq 3.0^{1}$
	0 = Total Cover	Problematic Hydrophytic Vegetation ¹ (Explain)
EQ% of total cover:	20% of total cover:	
Herb Stratum (Plot size: 36F4 x 30F4)		1
1. Andropogon virginius	ZD Y FAC	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Rubus argutus	TO Y FAC	Definitions of Four Vegetation Strata:
2. FOUS Car gotos		
3. Eupatorium capillifolium		Tree - Woody plants, excluding vines, 3 in. (7.6 cm) o
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		Woody vine - All woody vines greater than 3.28 ft in
11.		height.
12		
	50 = Total Cover	
50% of total cover: 23	20% of total cover: 10	
Woody Vine Stratum (Plot size: 30ft x 30ft)		
1. none		
2.	- The second second second second	
3		
4		
5	0	Hydrophytic Vegetation
	= Total Cover	Present? Yes No No
50% of total cover:		
Remarks: (If observed, list morphological adaptations bel	ow).	
Reindeer moss preser	,t	

Sampling Point: _____

Profile Desc	ription: (Describe t	to the depth n				or confirm (he absence	of indicator	s.)	
Depth (inchos)	Matrix Color (moist)	%	Redox Color (moist)	Features %	3 Type ¹	Loc ²	Texture		Remarks	
(inches) D - 5	2,5Y2.5/	100					S	230%	inclati	ed sand
5 12		and the second s					5	- 0-0-	Cricov-II	C C CONTRO
5-12	2.514/3	100 7	EN HE	20	-	-			100000000000000000000000000000000000000	
16-19	2.5413	the second s	5Y 4/2	20		M	5			
14-20	2.544/2	100				10000000	5			ALCONTRACTOR D
1111-20	TRAN ELSE MAN				1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-					
			and a start start							
¹ Type: C=Co	oncentration, D=Dep	letion, RM=Re	duced Matrix, MS	=Masked	Sand Gra	ains.			ning, M=Matri natic Hydric S	
「「「「「「「」」」」」」」」」」」」」」」」」」」」」」」」」」」」」」」	Indicators: (Applic	able to all LRI	Rs, unless other Polyvalue Bel			PRETIN		Muck (A9) (LI		
Histosol	(A1) bipedon (A2)	-	Thin Dark Su					Muck (A10) (
	stic (A3)	1	Loamy Mucky	Mineral	(F1) (LRR		Redu	ced Vertic (F1	8) (outside l	WLRA 150A,B)
Hydroge	en Sulfide (A4)		Loamy Gleye	and the second	F2)					(LRR P, S, T)
	d Layers (A5)	TIN	Depleted Mat Redox Dark S	CONTRACTOR CONTRACTOR	6)		the second state of the second s	RA 153B)	Loamy Soils ((20)
	Bodies (A6) (LRR P ucky Mineral (A7) (LF		Depleted Dark				Red F	Parent Materia		
Muck Pr	resence (A8) (LRR U		Redox Depre	ssions (F					Surface (TF1	2)
	Jck (A9) (LRR P, T)		Marl (F10) (L			-41	U Other	(Explain in R	lemarks)	
 The state of the second se second second sec	d Below Dark Surfac ark Surface (A12)	e (A11)	Depleted Och	In the second second second second	 Construction and the second s second second sec second second sec	The second s	r) ³ Indi	cators of hvd	rophytic vege	tation and
	rairie Redox (A16) (N	MLRA 150A)	Umbric Surfa				we	etland hydrolo	gy must be p	resent,
Sandy N	Aucky Mineral (S1) (I		Delta Ochric	(F17) (ML	RA 151)		un	less disturbe	d or problema	atic.
	Gleyed Matrix (S4)		Reduced Ver Piedmont Flo							
the second se	Redox (S5) 1 Matrix (S6)		Anomalous B					C, 153D)		
Dark Su	Inface (S7) (LRR P, S									and the second
1. 注意是自己的意义的	Layer (if observed)									/
Type:	shoe):	San O'L CARLES I	-				Hydric So	il Present?	Yes	No
Depth (in Remarks:	iches):		-				inguite 30			
Remarks:										
ALC: NO.										
STATISTICS AND ADDRESS AND ADDRESS ADD						the restance of the life of	100 B (0.000	track of the second second second second second		



Upland data point wcmo024_u facing northeast.



Upland data point wcmo024_u facing southwest.

Project/Site: <u>ACP</u> City/C	county: <u>Comberland</u> Sampling Date: 4/7/16
Applicant/Owner: Dominion	State: NC Sampling Point: wimo029e_u
Investigator(s): L. Roper, S. Bryan Section	on, Township, Range: <u>none</u>
Landform (hillslope, terrace, etc.); Corolina Bay Local	relief (concave, convex, none): <u>Aone</u> Slope (%): <u>0-21</u> ,
Subregion (LRR or MLRA): LRRT Lat: 34,928	37 1000: -78.74673 Datum: WGS84
Sublegion (LRR of MLRA). <u>CITE I</u> Lat. <u>CITE I</u>	NWI classification: PEM
Soil Map Unit Name: Croatan muck	
Are climatic / hydrologic conditions on the site typical for this time of year? Y	es No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly distur	
Are Vegetation, Soil, or Hydrology naturally problema	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	ppling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	Is the Sampled Area within a Wetland? Yes No
Remarks:	
abnormally dry ronditions	
HYDROLOGŸ	
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)	[이었다 그는 것 같은 것 같
Saturation (A3)	
Water Marks (B1) Oxidized Rhizospheres a	이것이 것은 것이 가지 두 집에 가지 않는 것이 같이 다. 이 것이 같이 ㅠㅠ 이 위에 가지 않는 것이 같이 많이 많이 많이 가지 않는 것이 같이 가지 않는 것이 같이 하는 것이 같이 같이 많이 많이 같이 같이 많이 많이 많이 없다.
Sediment Deposits (B2)	
Drift Deposits (B3) Recent Iron Reduction in Algal Mat or Crust (B4) Thin Muck Surface (C7)	Geomorphic Position (D2)
Iron Deposits (B5)	이 물건이 있는 것 같은 것 같은 것 같은 것 같은 집들을 위해 비행하게 가지 않는 것을 알았다. 이 가지 않는 것 같은 것 같
Inundation Visible on Aerial Imagery (B7)	EAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes No Depth (inches):	
Saturation Present? Yes No Depth (inches): <u>61</u> (includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), il available.
Remarks:	

Sampling Point:

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

	Absolute Deminert Indiant	Dominance Test worksheet:
Tree Stratum (Plot size: 30 Ft x 30 Ft)	Absolute Dominant Indicator % Cover Species? Status	
	a serie is not a final series of a series and an end of the series of the series of the series of the series of	Number of Dominant Species (A)
1. None		That Ale OBL, FACIN, OF FAC (A)
2		Total Number of Dominant 3
3	and the second sec	Species Across All Strata: (B)
4.		
5.		Percent of Dominant Species
化丁基乙酰基 经资料 化化学 化合物 化合物 化合物 化子子分配 化合物 化自动分子分子 人名英格兰人姓氏布尔特的变体		That Are OBL, FACW, or FAC: (A/B)
6		Prevalence Index worksheet:
7		Total % Cover of: Multiply by:
8		The second of a previous term to second or an and the second of the seco
	D = Total Cover	OBL species x 1 =
50% of total cover:	20% of total cover:	FACW species x 2 =
a in the last in the state of the 30 ft of 30 ft		FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 30 Ft x 30 Ft)		FACU species x 4 =
1. none		UPL species x 5 =
2		All and the second s
3.		Column Totals: (A) (B)
4		Developes Index - D/A -
		Prevalence Index = B/A =
5		Hydrophytic Vegetation Indicators:
6	The second se	Rapid Test for Hydrophytic Vegetation
7		2 - Dominance Test is >50%
8.		3 - Prevalence Index is ≤3.0 ¹
	0 = Total Cover	
		Problematic Hydrophytic Vegetation ¹ (Explain)
	20% of total cover:	
Herb Stratum (Plot size: 30 Ft x 30 Ft)		¹ Indicators of hydric soil and wetland hydrology must
1. Typha latifolia	10 Y OBL	be present, unless disturbed or problematic.
2. Junius effusus	30 Y OBL	Definitions of Four Vegetation Strata:
3. Andropogon glemeratus	10 Y FACW	
		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		
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
		height.
11		neight.
12		
	50 = Total Cover	
50% of total cover: 25	20% of total cover:D	
Woody Vine Stratum (Plot size: 30 ft × 30 ft)		
1. NONE		
2		
3.		
4		
0	0	Hydrophytic
	= Total Cover	Vegetation Present? Yes No
50% of total cover:	20% of total cover:	Present res v No
Remarks: (If observed, list morphological adaptations bel	ow)	
Remarks. (il observed, list morphological adaptations bei		
Varalitica bas bas		2/10 -1 1
vegetation nos pee	n sprayed	Wherbilido.
	1 10	
dead Morella cerifica, L	vonia lucida. e.	t. Shrbs in DAW
cao monta contrata, a		FUW

Sampling Point: ____

Profile Desc	ription: (Describe	to the depth n	eeded to docum	nent the i	ndicator	or confirm	the absence of ir	ndicators.)
Depth	Matrix		Redo	x Features	S			
(inches)	Color (moist)	Contraction and the real of the service of the serv	Color (moist)		ype'	_Loc ²	Texture	Remarks
0-18	2.5 12.5/1	100					muck	
-					State La	100 BALL		
	and the second second							
¹ Type: C=C	oncentration, D=Dep	oletion, RM=Re	duced Matrix, MS	S=Masked	I Sand Gra	ains.	² Location: PL=	=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applic	able to all LR	Rs, unless other	rwise not	ed.)		C C C C C C C C C C C C C C C C C C C	Problematic Hydric Soils ³ :
Histosol			Polyvalue Be Thin Dark Su					< (A9) (LRR O) < (A10) (LRR S)
	pipedon (A2) istic (A3)	-	Loamy Muck					Vertic (F18) (outside MLRA 150A,B)
Hydroge	en Sulfide (A4)]	Loamy Gleye	ed Matrix (Piedmont I	Floodplain Soils (F19) (LRR P, S, T)
Stratifie	d Layers (A5)		Depleted Ma	AND STREET, ST	101		CARD AND A REAL PROPERTY AND A REAL PROPERTY.	s Bright Loamy Soils (F20)
	Bodies (A6) (LRR P ucky Mineral (A7) (LI		Redox Dark				(MLRA 1 Red Paren	153B) nt Material (TF2)
	resence (A8) (LRR L		Redox Depre	essions (F			Very Shall	low Dark Surface (TF12)
1 cm Mi	uck (A9) (LRR P, T)		Marl (F10) (L	RR U)				plain in Remarks)
12 Contract Contract In Con	d Below Dark Surface	ce (A11)	Depleted Oc Iron-Mangan				T) ³ Indicator	rs of hydrophytic vegetation and
	ark Surface (A12) rairie Redox (A16) (MLRA 150A)	Umbric Surfa					d hydrology must be present,
Sandy N	Mucky Mineral (S1) (Delta Ochric	(F17) (ML	LRA 151)		unless	disturbed or problematic.
In the second state of the second state of the second	Gleyed Matrix (S4)		Reduced Ve					
1. Second Street Statistics and Street	Redox (S5) d Matrix (S6)		Piedmont Flo				9A) A 149A, 153C, 15	3D)
the second	urface (S7) (LRR P,	S, T, U)						
	Layer (if observed)							
Туре:			-					
1/2 // Public All Michael Col	nches):		-	Children .			Hydric Soil Pre	esent? Yes <u>V</u> No
Remarks:								



Wetland data point wcmo024e_w facing north.



Wetland data point wcmo024e_w facing west.

Photo Sheet 1 of 3

Project/Site: <u>ACP</u> Cit	y/County: Comberland Sampling Date: 4/116
Applicant/Owner: Dominion	State: NC Sampling Point: WEMOD24F_U
Investigator(s): L. Roper, S. Bryan Se	ection, Township, Range: <u>NONE</u>
Landform (hillslope, terrace, etc.): Corolina Bay Lo	cal relief (concave, convex, none): <u>none</u> Slope (%): <u>D-21</u>
Subregion (LRR or MLRA): LRR T Lat: 34, 9	Z829 Long: -78.74653 Datum: W1589
Soil Map Unit Name: Croatan muck	NWI classification: PFO
Are climatic / hydrologic conditions on the site typical for this time of year	
Are Vegetation, Soil, or Hydrology significantly dis	sturbed? Are "Normal Circumstances" present? Yes Vo
Are Vegetation, Soil, or Hydrology naturally problem	ematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing s	ampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	Is the Sampled Area within a Wetland? Yes No
Remarks: abnormally dry conditions NCWAM: Pocosin	
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) Marl Deposits (B15) (2018 - 2019 - 19 - 19 - 19 - 19 - 19 - 19 - 19 -
Saturation (A3)	2012년 1월 18일 - 18일 - 19일 - 19g - 19
	es along Living Roots (C3) 🔲 Dry-Season Water Table (C2)
Sediment Deposits (B2)	가는 사람이 이것에 들었다. 것은 것에서 안전 것은 것은 것은 것은 것은 것은 것이 같은 것이 같은 것에서 가지 않는 사람이 가지 않는 것에서 가지 않는 것이 같은 것이 없는 것이 것을 것을 수 있다. 것이 것이 같은 것이 같은 것이 같이 없는 것이 없다. 것이 없는 것이 없다. 것이 없는 것이 없다. 것이 없는 것이 없다. 것이 없는 것이 않는 것이 않이
Drift Deposits (B3)	
Algal Mat or Crust (B4) Thin Muck Surface (C Iron Deposits (B5) Other (Explain in Ren	2 TARLET COM CARE AND
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:	0
Surface Water Present? Yes No Depth (inches):	NH
Water Table Present? Yes V No Depth (inches):	Switcher
Saturation Present? Yes Ves No Depth (inches):	Surface Wetland Hydrology Present? Yes V No
Describe Recorded Data (stream gauge, monitoring well, aerial photos,	previous inspections), if available:
Remarks:	

ree Stratum (Plot size: 30 ft x 30 ft)		Dominant Species?		Dominance Test worksheet:	-
Pinus tueda	ID	N	FAC	Number of Dominant Species That Are OBL, FACW, or FAC:	(A)
	30	Y	OBL	Total Number of Dominant	-
Acer rubrum	10	N	FAC	Species Across All Strata:	<u>5</u> (B)
Liniodendron tulipitera	10	N	FACU	Percent of Dominant Species	100
				That Are OBL, FACW, or FAC:	00 (A/B)
	COLUMN TWO	PIECESSO DESIGN		Prevalence Index worksheet: Total % Cover of: M	Aultioly by:
				OBL species x1=	
		= Total Cov		FACW species x 2 =	
50% of total cover: 30	20% of	total cover	12	FAC species x 2 =	
apling/Shrub Stratum (Plot size: 30 ft x 30 ft)		N		FACU species x 4 =	
Aur rubrum	20	- <u>y</u>	FAC	UPL species x 5 =	
Lyonia lucida	30	<u> </u>	FACW	Column Totals: (A)	
Cyrilla racemiflora	10	N	FACW		
Morella cerifera		_10	FAC	Prevalence Index = B/A =	
			通信的 化合同的	Hydrophytic Vegetation Indicator	
	Alterative potential	Sectional and the section of the sec	Score Constant Score of Constant	1 Rapid Test for Hydrophytic	Vegetation
				2 - Dominance Test is >50%	
a series and a series of the	75	= Total Cov		\square 3 - Prevalence Index is $\leq 3.0^{1}$	the shares
50% of total cover: 35				Problematic Hydrophytic Veget	ation' (Explain)
erb Stratum (Plot size: 30ft x 30ft)				¹ Indicators of hydric soil and wetlan	d hydrology must
Osmundastrum linnamomeum	10	<u> </u>	FACU	be present, unless disturbed or prol	CONSIGNATION CONTRACTOR STATEMENTS
		- Section Contractor		Definitions of Four Vegetation St	rata:
	The support of the second		STREET, MARKEN STREET,	Tree – Woody plants, excluding vin more in diameter at breast height (I	es, 3 in. (7.6 cm) or OBH) regardless of
			的过去式和可的法的过去	height.	,
				Sapling/Shrub – Woody plants, ex than 3 in. DBH and greater than 3.2	cluding vines, less 28 ft (1 m) tall.
•				Herb - All herbaceous (non-woody)) plants, regardless
				of size, and woody plants less than	
0 1				Woody vine – All woody vines great height.	iter than 3.28 ft in
2	10	- 74-10			
50% of total cover:		= Total Cov f total cover			
50% of total cover:	20% 01	total cover			
Voody Vine Stratum (Plot size: 30 ft x 30 ft)	1-	Y	FAC		
Smilax rotunditolia	15		FIIC		
•	Total States		Constanting of the		
·			100 Harris 100		
•	Contract of the				
•				Hydrophytic	
_		= Total Co	Street of the second states	Vegetation Present? Yes	No
50% of total cover:	5 20% 0	f total cover	:		A COMPANY OF THE
Remarks: (If observed, list morphological adaptations belo	w).		2.34635.1415		

ofile Desc	ription: (Describe	to the depth	needed to docu	ment the i	ndicator	or confirm	n the absence o	f indicators.)
epth	Matrix		Redo	x Features	s			
nches)	Color (moist)		Color (moist)	%	_Type ¹	Loc ²		Remarks
)-20	2.542.0/1	100		-			muck.	
States and			K. P. S. Oken,	<u>.</u>				
				_				
				<u>A BARADA</u>	Nelles de			ter se al la serie de la sector de la sector de la
vpe: C=C	oncentration, D=Dep	letion, RM=R	educed Matrix, M	S=Masked	d Sand Gr	ains.		PL=Pore Lining, M=Matrix.
ydric Soil	Indicators: (Applic	able to all L	RRs, unless othe	rwise not	ed.)			or Problematic Hydric Soils ³ :
Histosol			Polyvalue B					uck (A9) (LRR O)
CONTRACTOR STORES	bipedon (A2)		Thin Dark S					uck (A10) (LRR S) d Vertic (F18) (outside MLRA 150A,I
Black Hi	stic (A3) en Sulfide (A4)		Loamy Much			. 0)		nt Floodplain Soils (F19) (LRR P, S, T
A REAL PROPERTY AND A REAL PROPERTY.	d Layers (A5)		Depleted Ma		·· -/			lous Bright Loamy Soils (F20)
Organic	Bodies (A6) (LRR P		Redox Dark	Creation of Calendrate Automatic	States of the second second			A 153B)
 December and the latent and 	ucky Mineral (A7) (L		Depleted Da		10 10 10 1 10 1 10 1 10 1			rent Material (TF2) nallow Dark Surface (TF12)
	resence (A8) (LRR L uck (A9) (LRR P, T)	(נ	Marl (F10) (8)			Explain in Remarks)
All the second second second second	d Below Dark Surfac	e (A11)	Depleted Or		(MLRA 1	51)		
Contractory and the first of the first	ark Surface (A12)		Iron-Manga	nese Mass	es (F12)	LRR O, P		ators of hydrophytic vegetation and
	rairie Redox (A16) (; U)		and hydrology must be present, ess disturbed or problematic.
The work with the state of	Aucky Mineral (S1) (LRR O, S)	Delta Ochrie Reduced Ve			0A 150B		ess disturbed of problematic.
	Gleyed Matrix (S4) Redox (S5)		Piedmont F		Contraction of the second states of the second s			
(1) (1) (1) (2) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	Matrix (S6)						RA 149A, 153C,	153D)
	urface (S7) (LRR P,		Reise and Starting	di Tinaki	here were here	Million Maria	-	a de la construction de la della constru
	Layer (if observed)):						,
Type:	iches):		<u> </u>				Hydric Soil	Present? Yes No
lemarks:							1.9	
emarka.								



Wetland data point wcmo024f_w facing northeast.



Wetland data point wcmo024f_w facing west.

	City/County: <u>Cumberland</u> Sampling Date: <u>417116</u>
Project/Site: ALP	City/County: <u>COTY TDer tory C</u> Sampling Date: <u>MCmo DZ4_m</u> State: <u>NC</u> Sampling Point: <u>Cmo DZ4_m</u>
Applicant/Owner: Dominion	
Investigator(s): Likoper, S. Bryan	Section, Township, Range:
Landform (hillslope, terrace, etc.): Coronna Day	Local relief (concave, convex, none): <u>NONE</u> Slope (%): <u>D-Z</u>
Subregion (LRR or MLRA): LRK [Lat! Lat!	92832 Long: -78.74666 Datum: W6589
Soil Map Unit Name: Croatan muck	
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 significantly	
Are Vegetation, Soil, or Hydrology naturally p	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 No Wetland Hydrology Present? Yes No	Is the Sampled Area within a Wetland? Yes <u>No</u>
Remarks: abnormally dry conditions powerline Access rd	
HYDROLOGÝ	
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)	아파 사람들이 잘 하는 것 같은 것 같은 것 같은 것 같은 것 같은 것 같이 같이 않는 것을 수 있는 것 같은 것 같
High Water Table (A2)	이 것을 수 이번 방법을 받았는 것 같은 것은 것은 것은 것은 것은 것은 것은 것을 알았다. 이 방법은 것을 방법을 위해 방법을 얻는 방법을 받았는 방법은 이상 것을 것을 못 했다. 것은 것은 것은 것을 것을 수 있는 것을 것을 수 있다. 것을 것을 수 있는 것을 것을 것을 수 있는 것을 것을 것을 것을 수 있는 것을 것을 것을 것을 것을 수 있다. 것을 것을 것을 것을 것을 것을 것을 수 있는 것을 것을 것을 것을 것을 것을 것을 수 있는 것을
Saturation (A3)	Odor (C1) Moss Trim Lines (B16) heres along Living Roots (C3) Dry-Season Water Table (C2)
Water Marks (B1) Oxidized Rhizospi Sediment Deposits (B2) Presence of Redu	
	ction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surfac	
Iron Deposits (B5)	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U)
Water-Stained Leaves (B9)	
Field Observations: Surface Water Present? Yes No Depth (inche	s): <u> </u>
Water Table Present? Yes No Depth (inche	
Saturation Present? Yes No Depth (inche (includes capillary fringe)	1.6
Describe Recorded Data (stream gauge, monitoring well, aerial pho	tos, previous inspections), if available:
Remarks:	

wenobzy_u Sampling Point: _

VEGETATION	(Four Strata	 Use scientific names of 	plants.
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2 51 24 51	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30ft x 30ft) 1. none	% Cover Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2		Total Number of Dominant Species Across All Strata:(B)
4		Percent of Dominant Species That Are OBL, FACW, or FAC:(A/B)
6	n and the particular and the	Prevalence Index worksheet:
7		Total % Cover of:Multiply by:
8		OBL species x1 =
	= Total Cover	FACW species x 2 =
	20% of total cover:	FAC species x3 =
Sapling/Shrub Stratum (Plot size: 30 ft x 30 ft)		
1. hone	Contration of the State of the State	FACU species x 4 =
2.	the second s	UPL species x 5 = (D)
3.		Column Totals: (A) (B)
4.		Prevalence Index = B/A =
5.	The second s	Hydrophytic Vegetation Indicators:
6	A REPORT OF THE REPORT OF T	1 - Rapid Test for Hydrophytic Vegetation
「「「「「「」」」」」、「「」」、「」」、「」」、「」、「」、「」、「」、「」、		
7		2 - Dominance Test is >50%
8	na di secon 🔿 na mala anya data se dati kati se se se da na si	3 - Prevalence Index is ≤3.0 ¹
		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of total cover:	
Herb Stratum (Plot size: 30ff x 30ff)	75 4 600	¹ Indicators of hydric soil and wetland hydrology must
1. Andropogon virginius	ZD Y FAC	be present, unless disturbed or problematic.
2. Rubus argutus	10 Y FAC	Definitions of Four Vegetation Strata:
3. Evolatorium capillifolium	ZO Y FACU	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) o
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		
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
11		height.
12		
-	= Total Cover	
50% of total cover: 2	5 20% of total cover: 10	
Woody Vine Stratum (Plot size: 30ft x 30ft)		
1. none	the second s	
2.		
3.		
4.		
		11. deservation
5	O = Total Cover	Hydrophytic Vegetation
FOR Statistics	A Second s	Present? Yes No
50% of total cover:		
Remarks: (If observed, list morphological adaptations be	elow).	
Reindeer moss preser	t	
방법 같은 것 같은 것 같은 것 같은 것 같은 것을 잘 못 한 것 같은 것을 걸려 가지 않는 것 같은 것 같		

Sampling Point: _____

Profile Desc	ription: (Describe t	to the depth r				or confirm	the absence	of indicator	s.)	
Depth (inchos)	Matrix Color (moist)	%	Redo Color (moist)	x Features %	3 Type ¹	Loc ²	Texture		Remarks	
(inches) D - 5	2,5Y2.5/	100					5	230%	inclati	ed sand
E 17		The second second second second					5		5100-1	
12 11	7 1111	100 7	ENHE	20	-	- MA			2630301711	
16-19	2.5413		.5Y 4/2	20		M	5			
14-20	2.544/2	100		•			5			
19121-20	THE REPORT			-	1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-					
						-				
	Sala and Stars		And Salar Sila							
¹ Type: C=C	oncentration, D=Dep	letion, RM=Re	educed Matrix, MS	S=Masked	Sand Gra	ains.			ning, M=Matri	
STATUS AND STREET	Indicators: (Applic	able to all LR							natic Hydric S	50115 :
Histosol	[1] · · · · · · · · · · · · · · · · · · ·		Polyvalue Be Thin Dark Su					Muck (A9) (L Muck (A10) (
	pipedon (A2) istic (A3)	-	Loamy Muck				Redu	ced Vertic (F	8) (outside N	ULRA 150A,B)
Hydroge	en Sulfide (A4)		Loamy Gleye	ed Matrix (Piedn	nont Floodpla	in Soils (F19)	(LRR P, S, T)
	d Layers (A5)	-	Depleted Ma	and the second se	-		and the second state of th	NTER	Loamy Soils (F20)
	Bodies (A6) (LRR P ucky Mineral (A7) (LF		Redox Dark Depleted Da					RA 153B) Parent Materia	al (TF2)	
	resence (A8) (LRR U		Redox Depre				Very !	Shallow Dark	Surface (TF1	2)
1 cm Mi	uck (A9) (LRR P, T)		Marl (F10) (I	RR U)			Uther	(Explain in F	lemarks)	
 The state of the second se second second sec	d Below Dark Surfac	e (A11)	Depleted Oc	All a share of the state of the state of	 Construction of the state of the state 		() ³ lod	icators of hud	rophytic vege	tation and
	ark Surface (A12) rairie Redox (A16) (N	MLRA 150A)	Umbric Surfa						gy must be p	
	Aucky Mineral (S1) (I		Delta Ochric	THE PARTY NEW YORK STREET, N.					d or problema	
Sandy (Gleyed Matrix (S4)		Reduced Ve							
the second	Redox (S5)		Piedmont Fle Anomalous I					C 153D)		
	d Matrix (S6) urface (S7) (LRR P, S	5. T. U)		Singht Loal	my oolis ((WER	- 143A, 133	0, 1000)		
	Layer (if observed)									
Type:		Gibi Edd	_							
Depth (ir	nches):		<u> </u>				Hydric So	il Present?	Yes	No <u>\</u>
Remarks:										
A PARTIES.										
1000										