

Photo 3 Upland data point wnoc001\_u1 facing south



Photo 4
Upland data point wnoc001\_u1 facing west

Project/Site: Atlantic Coast Pipeline		City/0	County: Nottoway		Sampling Date: 12/5/2014
Applicant/Owner: DOMINION				State: VA	Sampling Point: wnoc001_u2
		Secti	on, Township, Range: No	PLSS in this area	1
Landform (hillslope, terrace, etc.): Hill SI					
Subregion (LRR or MLRA): P					
Soil Map Unit Name: Bremo loam, erode	ed hilly phase			NWI classific	ation: None
Are climatic / hydrologic conditions on th					
Are Vegetation, Soil, or H		-			
Are Vegetation, Soil, or H					
SUMMARY OF FINDINGS – At					
				,	, , ,
Hydrio Soil Broomt?	Yes	No	Is the Sampled Area		
Hydric Soil Present? Wetland Hydrology Present?	Yes		within a Wetland?	Yes	No
Remarks:					
HYDROLOGY					
Wetland Hydrology Indicators:				Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is	required; check	k all that apply)		Surface Soil	Cracks (B6)
Surface Water (A1)		True Aquatic Plants	(B14)	Sparsely Veg	getated Concave Surface (B8)
High Water Table (A2)		Hydrogen Sulfide Od	lor (C1)	Drainage Pa	tterns (B10)
Saturation (A3)	_	Oxidized Rhizospher	res on Living Roots (C3)	Moss Trim Li	ines (B16)
Water Marks (B1)	_	Presence of Reduce	d Iron (C4)	Dry-Season	Water Table (C2)
Sediment Deposits (B2)		Recent Iron Reduction	on in Tilled Soils (C6)	Crayfish Bur	rows (C8)
Drift Deposits (B3)		Thin Muck Surface (			sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	_	Other (Explain in Re	marks)	· <del></del>	tressed Plants (D1)
Iron Deposits (B5)	(57)				Position (D2)
Inundation Visible on Aerial Image	ry (B7)			Shallow Aqui	
<ul><li>Water-Stained Leaves (B9)</li><li>Aquatic Fauna (B13)</li></ul>				FAC-Neutral	aphic Relief (D4)
Field Observations:				I AC-Neullai	1631 (D3)
	No 🗸	Depth (inches):			
		Depth (inches):			
		Depth (inches):		lydrology Preser	nt? Yes No ✔
(includes capillary fringe)					
Describe Recorded Data (stream gauge	e, monitoring w	vell, aerial photos, pre	evious inspections), if ava	iilable:	
Remarks:					
No wetland hydrology present.					

Sampling Point, whocoo i_u2	Sampling	Point: wnoc001	_u2
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	Absolute	Dominant Ir	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 )	<u>% Cover</u> 35	Species? _ Yes	Status FACU	Number of Dominant Species
1. Quercus falcata	20	Yes	FACU	That Are OBL, FACW, or FAC:0 (A)
2. Fagus grandifolia	20	Yes	FACU	Total Number of Dominant
3. Juniperus virginiana	15	No	FAC	Species Across All Strata: 7 (B)
4. Pinus taeda			-FAC	Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 0 (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
45		= Total Cove		OBL species0 x 1 =0
50% of total cover: 45	20% of	total cover:_	18	
Sapling/Shrub Stratum (Plot size:)	45		E4011	FACW species x 2 = 60
1. Fagus grandifolia	15	Yes	FACU	FAC species 20 x 3 = 60 520
2. Ilex opaca	10	Yes	FACU	FACU species X 4 =
3. Juniperus virginiana	5	No	FACU	UPL species X 5 =
4				Column Totals: (A) (B)
5				Prevalence Index = B/A = 3.86
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>
	30	= Total Cove		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover:15	20% of	total cover:	6	data in Remarks or on a separate sheet)
Herb Stratum (Plot size:5				. ,
1. Ilex opaca	10	Yes	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Polystichum acrostichoides	10	Yes	FACU	The disease of hydric acit and wattened hydrology as at
3. Fagus grandifolia	5	No	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. Lonicera japonica	5	No	FAC	Definitions of Four Vegetation Strata:
5				
6				<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
7				height.
8				
9.				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
10.				m) tall.
11.				Harb All barbassas (non woods) plants regardless
	30	= Total Cove		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover:15		total cover:	_	
Woody Vine Stratum (Plot size: 30 )				<b>Woody vine</b> – All woody vines greater than 3.28 ft in height.
1				noight.
2				
3.				
4				
5.				Hydrophytic Vegetation
<u>.                                    </u>	0	= Total Cove	-	Present? Yes No
50% of total cover:		total cover:	^	
Remarks: (Include photo numbers here or on a separate s		10101 00101		
Remarks. (include prioto numbers here or on a separate s	neet.)			

Profile Des	scription: (Describe	to the dept	h needed to docun	nent the ir	ndicator	or confirm	the absen	ce of indicat	ors.)	
Depth	Matrix		Redo	x Features	,	-				
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks	3
0-3	2.5 Y 4/3	100					LS			
3-7	2.5 Y 5/4	100					LS			
7-14	7.5 YR 4/6	60					SL			
	2.5 Y 5/4	40					SL			
	-	-				·				
	-									
<sup>1</sup> Type: C=0	Concentration, D=Dep	oletion, RM=	Reduced Matrix, MS	S=Masked	Sand Gra	ains.	<sup>2</sup> Location:	PL=Pore Lir	ning, M=Matrix	ζ.
	I Indicators:						Ind	licators for F	roblematic F	lydric Soils³:
Histoso	ol (A1)		Dark Surface	(S7)				2 cm Muck	(A10) <b>(MLRA</b>	147)
Histic E	Epipedon (A2)		Polyvalue Be				148)	Coast Prairi	ie Redox (A16	6)
	Histic (A3)		Thin Dark Su	, ,	•	47, 148)		(MLRA 1		
	gen Sulfide (A4)		Loamy Gleye		<sup>-</sup> 2)				loodplain Soils	s (F19)
	ed Layers (A5)		Depleted Mat		_,			(MLRA 1	•	
	fluck (A10) (LRR N)	- (0.4.4)	Redox Dark S						w Dark Surfac	
	ed Below Dark Surfac	e (A11)	Depleted Dar					Other (Expl	ain in Remark	S)
	Dark Surface (A12) Mucky Mineral (S1) <b>(</b> I	I DD N	Redox Depre Iron-Mangan			I DD N				
	RA 147, 148)	LIXIX IV,	MLRA 13		(1 12) (	LIXIX IV,				
	Gleyed Matrix (S4)		Umbric Surfa		MLRA 13	6. 122)	3	Indicators of	hydrophytic ve	egetation and
	Redox (S5)		Piedmont Flo						ology must be	-
	ed Matrix (S6)		Red Parent N					-	bed or probler	
	Layer (if observed)	:		`		<u> </u>	ĺ			
Type:										
	nches):						Hvdric S	oil Present?	Yes	No 🗸
Remarks:							,			
No hydric so	nil nresent									
to riyano oc	ni present.									



Photo 1 Upland data point WNOC001\_u2 facing north



Photo 2
Upland data point WNOC001\_u2 facing east



Photo 3
Upland data point WNOC001\_u2 facing south



Photo 4
Upland data point WNOC001\_u2 facing west

Project/Site: ACP City/County: Nottoway Sampling Date: 7/14/16
Applicant/Owner: Dominion State: VA Sampling Point: Wnos 0025
Investigator(s): ESI - Roper, N. Mwphrey Section, Township, Range: none
investigator(s): L32 Poyer, 100 100 Section, Township, Range: V1010
Landform (hillslope, terrace, etc.): drainago Local relief (concave, convex, none): Concave Slope (%): 2-5/1
Subregion (LRR or MLRA): LRP Gat: 37.136007 Long: -77.98012 Datum: WGS84
Soil Map Unit Name: Wehadkee 5076 NWI classification: PFO
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturbed?
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?  Yes No Is the Sampled Area
Hydric Soil Present? Yes No within a Wetland? Yes No
Wetland Hydrology Present? Yes No
Remarks:
NCWAM: Bottomland Hardwood Forest
HYDROLOGY
Wetland Hydrology Indicators: Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)  Surface Soil Cracks (B6)
Surface Water (A1) True Aquatic Plants (B14) Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)  Hydrogen Sulfide Odor (C1)  Drainage Patterns (B10)
Saturation (A3) Oxidized Rhizospheres on Living Roots (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of Reduced Iron (C4) Dry-Season Water Table (C2)
Sediment Deposits (B2) Recent Iron Reduction in Tilled Soils (C6) Crayfish Burrows (C8)
Drift Deposits (B3) Thin Muck Surface (C7) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Other (Explain in Remarks) Stunted or Stressed Plants (D1)
Iron Deposits (B5) Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7) Shallow Aquitard (D3)
✓ Water-Stained Leaves (B9)  Microtopographic Relief (D4)
Aquatic Fauna (B13) FAC-Neutral Test (D5)
Field Observations:  Surface Water Present? Yes No Depth (inches): NA
Water Table Present? Yes No Depth (inches): 320
Saturation Present? Yes No Depth (inches): 5 Wetland Hydrology Present? Yes No Depth (inches): 5
(includes capillary fringe)
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks:

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

2-0. 3001	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 30ff x 30ff)  1. Carpinus Caroliniana	10	Species?	<u>Status</u> <u>FAC</u>	Number of Dominant Species That Are OBL, FACW, or FAC:	8_ (A)
3. Aver rubrum	10	<u> </u>	FAL	Total Number of Dominant Species Across All Strata:	8 <sub>(B)</sub>
4. Alnus serrulata	10	4	OBL	Bassat of Bassingst Species	DD (A/B)
6					
7	1000			Prevalence Index worksheet:	shu busi
	50	= Total Cov	er	Total % Cover of: Multip	Mark Bridge & A. St. Control of the St.
50% of total cover: 25	20% of	total cover:	10	OBL species x 1 =	
Sapling/Shrub Stratum (Plot size: 30f4 x 30ff)	10	M	Fine	FACW species x 2 =	MARKET CHEST AND THE STATE OF T
1. Carpinus Caroliniana	20	4	FAC	FACULARISIS X 3 =	
2. Alnus serrulata	THE RESIDENCE OF		OBL	FACU species x 4 = UPL species x 5 =	CONTRACTOR ATTEMPTS AND THE STATE OF THE STA
3.					BUTTER STOCK FOR THE TOTAL TO THE STOCK THE STOCK OF THE
4				Column Totals: (A)	(b)
5				Prevalence Index = B/A =	
6				Hydrophytic Vegetation Indicators:	
7				1 - Rapid Test for Hydrophytic Vege	tation
8				2 - Dominance Test is >50%	
9				3 - Prevalence Index is ≤3.01	
		= Total Cove		4 - Morphological Adaptations¹ (Pro	vide supporting
50% of total cover: 15	20% of	total cover:	6	data in Remarks or on a separate	
Herb Stratum (Plot size: 30ff x 30ff)	1.		Chen	Problematic Hydrophytic Vegetation	
1. Impatiens capensis	40	<u> </u>	THUW		
2.				<sup>1</sup> Indicators of hydric soil and wetland hydric	trology must
3				be present, unless disturbed or problems	atic.
4				Definitions of Four Vegetation Strata:	Design although Transport to a part of the Committee of t
5					
6				Tree – Woody plants, excluding vines, 3 more in diameter at breast height (DBH)	n. (7.6 cm) or , regardless of
7				height.	
8				Sapling/Shrub - Woody plants, excluding	ng vines, less
9				than 3 in. DBH and greater than or equa m) tall.	1 το 3.28 π (1
10					
11	40	Total Cove		Herb – All herbaceous (non-woody) plar of size, and woody plants less than 3.28	nts, regardless ft tall.
50% of total cover: 20	20% of	total cover:_	8	Woody vine - All woody vines greater to	han 3.28 ft in
Woody Vine Stratum (Plot size: 30ft x 30ft)		. ,		height.	
1. Vitis rotundifolia	20	7	FAC		
2					
3					
4.				Hydrophytic	
5				Vegetation	
	20 =	Total Cove	r , ,	Present? Yes No	
50% of total cover: 10					
Remarks: (Include photo numbers here or on a separate sh	neet.)				

Profile Desc	ription: (Describe	to the dep	th needed to docur	ment the i	ndicator	or confirm	n the absence	of indicators.)
Depth	Matrix			x Feature		12	Tautura	Domarke
(inches)	Color (moist)	%	LOVR 44	_%_	Type	Loc <sup>2</sup>	Texture	Remarks
0-15	104871	90	10YR 4/4	10	0	19	- 54	
15-20	10/R4/1	90	104/24/3	10		19	<u>SL</u>	
				Late of the late	-			The second second second second second
					-			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
200000000000000000000000000000000000000						4.00		
								and the second s
	oncentration, D=Dep	letion, RM=	Reduced Matrix, M	S=Masked	Sand Gra	ins.	<sup>2</sup> Location: Pl	=Pore Lining, M=Matrix.
Hydric Soil I	ndicators:							ators for Problematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface		(00) (1)			cm Muck (A10) (MLRA 147)
	oipedon (A2)		Polyvalue Be Thin Dark St				148) C	Coast Prairie Redox (A16) (MLRA 147, 148)
Black His	n Sulfide (A4)		Loamy Gleye			47, 140)	P	Piedmont Floodplain Soils (F19)
	Layers (A5)		Depleted Ma					(MLRA 136, 147)
	ck (A10) (LRR N)		Redox Dark					Red Parent Material (TF2)
	Below Dark Surfac	e (A11)	Depleted Da					/ery Shallow Dark Surface (TF12)
	ark Surface (A12) lucky Mineral (S1) (L	DD N	Redox Depre Iron-Mangan			PPN		Other (Explain in Remarks)
The state of the s	147, 148)	-IXIX IV,	MLRA 13		C3 (1 12) (1	-11.11,		
	leyed Matrix (S4)		Umbric Surfa		MLRA 13	6, 122)	<sup>3</sup> Ind	licators of hydrophytic vegetation and
	edox (S5)		Piedmont Flo	oodplain S	oils (F19)	(MLRA 14		vetland hydrology must be present,
	Matrix (S6)						u	nless disturbed or problematic.
	ayer (if observed):							
Type:			<del></del>				Hydric Soil	Present? Yes No
	ches):						Hydric Soil	Presentr res No
Remarks:								
475.51								



Wetland data point wnos002f\_w facing northeast.



Wetland data point wnos002f\_w facing east.

	Lat: 37.13606  all for this time of year? Yes significantly disturbed?  naturally problematic?	Landform (hillslope, terrace, etc.):
on, Township, Range: NOVE  ilef (concave, convex, none): (OVVEX Slope (%): 3-5/2  Long: 1798019 Datum: W/c584  NWI classification: NWI classificat	Lat: 37.13 to D to  Lat: 37.13 to D to  Lat is all for this time of year? Yes  significantly disturbed?  naturally problematic?	nvestigator(s): EST-Roper,  Landform (hillslope, terrace, etc.): his  Subregion (LRR or MLRA): LRR  Soil Map Unit Name: Wehadke  Are climatic / hydrologic conditions on the  Are Vegetation, Soil, or the  Are Vegetation, Soil, or the
Slope (%): 3-5/ Description of the context of the c	Lat: 37.13 to D to  Lat: 37.13 to D to  Lat is all for this time of year? Yes  significantly disturbed?  naturally problematic?	Landform (hillslope, terrace, etc.):
NWI classification: NA  No (If no, explain in Remarks.)  thed? Are "Normal Circumstances" present? Yes No  atic? (If needed, explain any answers in Remarks.)  Is the Sampled Area	Lat: 37.13606  all for this time of year? Yes significantly disturbed? naturally problematic?	Subregion (LRR or MLRA): LRR Soil Map Unit Name: Wehadke Are climatic / hydrologic conditions on the Are Vegetation, Soil, or the Are Vegetation, Soil, or the
NWI classification:  No (If no, explain in Remarks.)  Thed? Are "Normal Circumstances" present? Yes No  atic? (If needed, explain any answers in Remarks.)  Inpling point locations, transects, important features, etc.	al for this time of year? Yes significantly disturbed? naturally problematic?	Soil Map Unit Name: Wehadke  Are climatic / hydrologic conditions on the  Are Vegetation, Soil, or lare Vegetation, Soil
No (If no, explain in Remarks.)  rbed? Are "Normal Circumstances" present? Yes No atic? (If needed, explain any answers in Remarks.)  Inpling point locations, transects, important features, etc.	sal for this time of year? Yessignificantly disturbed? naturally problematic?	Are climatic / hydrologic conditions on the Are Vegetation, Soil, or the Are Vegetation, Soil, or the Are Vegetation, Soil,
Are "Normal Circumstances" present? Yes No atic? (If needed, explain any answers in Remarks.)  Inpling point locations, transects, important features, etc.	significantly disturbed?naturally problematic?	Are Vegetation, Soil, or    Are Vegetation, Soil, or
atic? (If needed, explain any answers in Remarks.)  Is the Sampled Area	naturally problematic?	Are Vegetation, Soil, or
npling point locations, transects, important features, etc.		
Is the Sampled Area	e map showing sampling po	NIMMARY OF FINDINGS A
Is the Sampled Area within a Wetland? Yes No		SUMMARY OF FINDINGS - A
Is the Sampled Area within a Wetland? Yes No	No V	Underskidie Verstellen Berend?
within a Wetland? Yes No	No is the Sa	Hydrophytic Vegetation Present?
	No within a	Hydric Soil Present? Wetland Hydrology Present?
		Remarks:
		HYDROLOGY
Secondary Indicators (minimum of two required)		Wetland Hydrology Indicators:
Surface Soil Cracks (B6)	heck all that apply)	Primary Indicators (minimum of one is
rang Sangaran (1 Hill Salan) - National of Sangar Sangar (1 Hill Sangar Sangar (1 Hill Sangar Sangar Sangar Sa	True Aquatic Plants (B14)	Surface Water (A1)
	Hydrogen Sulfide Odor (C1)	High Water Table (A2)
#1 14 (14 ) 후 (16 ) : 1 (16 ) : 1 (16 ) : 1 (16 ) : 1 (16 )	Oxidized Rhizospheres on Livin	Saturation (A3)
14P(t) (14pm) 14 (15pm) 2 (15pm) 1 (15pm) 1 (15pm) 1 (16pm) 2 (16pm) 1 (16p	Presence of Reduced Iron (C4)	Water Marks (B1)
	Recent Iron Reduction in Tilled	Sediment Deposits (B2)
프레스트	Thin Muck Surface (C7)	Drift Deposits (B3)
	Other (Explain in Remarks)	Algal Mat or Crust (B4)
Geomorphic Position (D2)		Iron Deposits (B5)
[1] [1] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2		
		(1)
PAC-Neutral Test (D3)	and the second s	
NA	Depth (inches): NA	
20	1 10-	
120	Deput (mones).	
Vetland Hydrology Present? Yes No.	/ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Saturation Present? Yes
	Depth (inches): >20	Saturation Present? Yes (includes capillary fringe)
	Depth (inches): >20	(2)
	Depth (inches): >20	(includes capillary fringe)
Shallow Aquitard (D3)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)	A 110	Inundation Visible on Aerial Image Water-Stained Leaves (B9) Aquatic Fauna (B13)  Field Observations:  Surface Water Present? Yes Water Table Present? Yes

	Absolute	Dominant	Indicator	Dominance Test worksheet:	7
Tree Stratum (Plot size: 30f+ x 30f+)		Species?			
1. Carpinus caroliniana			FAC	Number of Dominant Species That Are OBL, FACW, or FAC:	1
2. Querus alba	15	У	FACU		1
3. Juniperus virginiana	ID	Y	FACU	Total Number of Dominant Species Across All Strata:  (B)	1
		-11	FAC	Species Across All Strata: (B)	
ALTO TRANSPORT AND DESCRIPTION OF A TRANSPORT OF THE PROPERTY			O'S AND THE PROPERTY OF THE PARTY OF THE PAR	Percent of Dominant Species	
5			-	That Are OBL, FACW, or FAC: 50 (A/B)	
6			-	Prevalence Index worksheet:	+
7					1
	45	= Total Cov	er	Total % Cover of: Multiply by:	
50% of total cover: 22	5 20% of	total cover:	9	OBL species x 1 =	
Sapling/Shrub Stratum (Plot size: 30ft x 30ft)				FACW species 10 x 2 = 20	
1. Carpinus caroliniana	10	<u> </u>	FAC	FAC species 40 x3 = 120	1
2				FACU species \$0 x4 = 200	1
3			Charlette Committee CV	UPL species x 5 =	
4			Charles to the second of the land	Column Totals: 100 (A) 340 (B)	1
5			A solution to be a second of the second		
				Prevalence Index = B/A = 3.4	
6				Hydrophytic Vegetation Indicators:	1
7				1 - Rapid Test for Hydrophytic Vegetation	
8	March 1966			2 - Dominance Test is >50%	
9	-10			3 - Prevalence Index is ≤3.01	
		= Total Cove		4 - Morphological Adaptations <sup>1</sup> (Provide supporting	1
50% of total cover: 5	20% of	total cover:		data in Remarks or on a separate sheet)	
Herb Stratum (Plot size: 30ff x 30ff)				Problematic Hydrophytic Vegetation¹ (Explain)	
1. Polystichum acrostichoides	15			1 roblematic riyarophytic vegetation (Explain)	
2. Vaccinium corymbosum	10		FACW	Indicators of budgie call and contend budgetons must	1
3				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	1
4				Definitions of Four Vegetation Strata:	+
5				Deminions of Four Vegetation State.	
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or	
7				more in diameter at breast height (DBH), regardless of height.	
8				nogn.	
9.				Sapling/Shrub - Woody plants, excluding vines, less	1
10				than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.	
				,	
11.	7 5	Total Cove		Herb – All herbaceous (non-woody) plants, regardless	18
50% of total cover: 12.5	2001 -	total Cover:_		of size, and woody plants less than 3.28 ft tall.	
Woody Vine Stratum (Plot size: 30ft x 30ft)	20% 01	total cover		Woody vine - All woody vines greater than 3.28 ft in	
The same was a surface of the same of the	10	V	ca.	height.	1
1. Toxicodendron radicans	10	<u> </u>	FAL		
2. Parthenocissus quinquefolia	10		FACU		
3			-		
4			1.55	Hydrophytic	
5				Vegetation	
	20 =	Total Cove	r	Present? Yes No	
50% of total cover: 10	20% of t	otal cover:_	4		
Remarks: (Include photo numbers here or on a separate sh	neet.)				1
					1
					1
					1
					1
					1

	cription: (Describe	to the depth	n needed to document the indicator or con	firm the absence of indicators.)
Depth (inches)	Matrix Color (moist)	%	Redox Features  Color (moist) % Type Loc	Texture Remarks
D - 1Z	10 12314	100	Coloi (moist) % Type Loc	5 L
12-20	10483/2	100		5L
12-20	10/K-12	100		
100000				
THE REAL PROPERTY.				
	Z	7.5		
			SECTION OF THE PROPERTY OF THE	
1Tune: C-C	annostration D-Don	lotion DM-	Reduced Matrix, MS=Masked Sand Grains.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil		ietion, Rivi-r	Reduced Matrix, MS-Masked Sand Grains.	Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface (S7)	2 cm Muck (A10) (MLRA 147)
Carried Street, Street	pipedon (A2)		Polyvalue Below Surface (S8) (MLRA	
Black Hi	istic (A3)		Thin Dark Surface (S9) (MLRA 147, 14	8) (MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleyed Matrix (F2)	Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Matrix (F3)	(MLRA 136, 147) Red Parent Material (TF2)
	uck (A10) <b>(LRR N)</b> d Below Dark Surfac	ο (Δ11)	<ul><li>Redox Dark Surface (F6)</li><li>Depleted Dark Surface (F7)</li></ul>	Very Shallow Dark Surface (TF12)
	ark Surface (A12)	C (A11)	Redox Depressions (F8)	Other (Explain in Remarks)
A STATE OF THE PARTY OF THE PAR	Mucky Mineral (S1) (L	RR N,	Iron-Manganese Masses (F12) (LRR N	
	A 147, 148)		MLRA 136)	
	Sleyed Matrix (S4)		Umbric Surface (F13) (MLRA 136, 122	
	Redox (S5)		Piedmont Floodplain Soils (F19) (MLR/	A 148) wetland hydrology must be present, unless disturbed or problematic.
	Matrix (S6)  Layer (if observed):			unless distarbed of problematic.
CARDITICATIVE				
	Layer (ii observed).			
Type:		<u> Province</u>		Hydric Soil Present? Yes No/
Type:	ches):	<u> Province</u>		Hydric Soil Present? Yes No
Type: Depth (in		<u> Province</u>		Hydric Soil Present? Yes No
Type: Depth (in		Market 1		Hydric Soil Present? Yes No
Type: Depth (in		Market 1		Hydric Soil Present? Yes No
Type: Depth (in		Market 1		Hydric Soil Present? Yes No
Type: Depth (in		Market 1		Hydric Soil Present? Yes No
Type: Depth (in		Market 1		Hydric Soil Present? Yes No
Type: Depth (in		Market 1		Hydric Soil Present? Yes No
Type: Depth (in		Market 1		Hydric Soil Present? Yes No
Type: Depth (in		Market 1		Hydric Soil Present? Yes No
Type: Depth (in		Market 1		Hydric Soil Present? Yes No
Type: Depth (in		Market 1		Hydric Soil Present? Yes No
Type: Depth (in		Market 1		Hydric Soil Present? Yes No
Type: Depth (in		Market 1		Hydric Soil Present? Yes No
Type: Depth (in		<u> Province</u>		Hydric Soil Present? Yes No
Type: Depth (in		<u> Province</u>		Hydric Soil Present? Yes No
Type: Depth (in		<u> Province</u>		Hydric Soil Present? Yes No
Type: Depth (in		<u> Province</u>		Hydric Soil Present? Yes No
Type: Depth (in		<u> Province</u>		Hydric Soil Present? Yes No
Type: Depth (in		<u> Province</u>		Hydric Soil Present? Yes No
Type: Depth (in		<u> Province</u>		Hydric Soil Present? Yes No
Type: Depth (in		<u> Province</u>		Hydric Soil Present? Yes No



Upland data point wnos002\_u facing west.



Upland data point wnos002\_u facing northwest.

Project/Site: ACP City/Co	ounty: Notoway Sampling Date: 6-21-16
Applicant/Owner: Dominion	State: \\A Sampling Point: \\MOSOO!
Investigator(s): ESI(U. Vaughan, S. Bryan) Section	
Landform (hillslope, terrace, etc.): drainage Local relie	
30 P. O. C. B.	IN COMPANION OF CONTRACTOR OF
Subregion (LRR or MLRA): LRRP Lat: 37.12 9958	Long: ~77. 96 7 80 + Datum: WGS 84
Soil Map Unit Name: Apply fine sandy loam	NWI classification: PFO
Are climatic / hydrologic conditions on the site typical for this time of year? Yes	
Are Vegetation, Soil, or Hydrology significantly disturb	ped? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally problema	
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?  Remarks:  Yes No  Yes No  Remarks:	Is the Sampled Area within a Wetland? Yes No
NCWAM: Headwater forest	
HYDROLOGY	Br. St. Table
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) True Aquatic Plants (E	
High Water Table (A2) Hydrogen Sulfide Odo	
Saturation (A3) Oxidized Rhizosphere	2000년 4월 12일
	#####################################
Drift Deposits (B3) Thin Muck Surface (C	18일(1997) [18] [18] [18] [18] [18] [18] [18] [18]
Algal Mat or Crust (B4) Other (Explain in Rem	[15] [14] [16] [16] [17] [17] [17] [17] [17] [17] [17] [17
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	nch .
Water Table Present? Yes No Depth (inches): Su_	
Saturation Present? Yes Ves No Depth (inches): St.	Wetland Hydrology Present? Yes ✓ No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, prev	rious inspections), if available:
Remarks:	

Tree Stratum (Plot size: 30 ft , 30ft)  1. Liniodendron tulipifera	Absolute			
	% Cover	Species?	Indicator	Dominance Test worksheet:
			FACU	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
				mat Ale OBL, FACVV, OF FAC (A)
2. Liquidambar Styracifla	10	yes		Total Number of Dominant
3. Acer rubrum	30	Yes	FAC	Species Across All Strata: (B)
4				
5				Percent of Dominant Species 78
			antimation of	That Are OBL, FACW, or FAC: (A/B)
6.			-	Prevalence Index worksheet:
7				■ 17.00 Park to Company and Add to the Company and the Add to the Company and the Company a
	80	= Total Cov	er	Total % Cover of: Multiply by:
50% of total cover: 40	20% of	total cover:	16	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 30ft x30ft)				FACW species x 2 =
1. Liri adendron tulipifera	10	vec	Edri	FAC species x 3 =
LIFT Odenaron Talipitate	10	70	FACU	FACU species x 4 =
2. Liquidambar Styraciflua	10	yes	FAC	
3				UPL species x 5 =
4.				Column Totals: (A) (B)
5.				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8.				2 - Dominance Test is >50%
9				
	20	= Total Cov		3 - Prevalence Index is ≤3.0¹
500/ -51-1-1 /0				4 - Morphological Adaptations (Provide supporting
50% of total cover:	20% of	total cover:	THE COURSE OF THE	data in Remarks or on a separate sheet)
				Problematic Hydrophytic Vegetation¹ (Explain)
Herb Stratum (Plot size: 30f4 x 30f4)				
1. Impatiens Capensis	20	yes	FACW	Problematic Hydrophytic Vegetation (Explain)
1. Impatiens Capensis	20	yes yes		
1. Impatiens Capensis 2. Boehmeria cylindrica	15	yes	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1. Impatiens Capensis 2. Boehmeria cylindrica 3. Sambucus nigra	15	yes yes	FACW	
1. Impatiens Capensis 2. Boehmeria cylindrica 3. Sambucus nigra 4. Panirum hemitomon	15 15 25	yes yes	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1. Impatiens Capensis 2. Boehmeria cylindrica 3. Sambucus nigra	15 15 25	yes yes	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:
1. Impatiens Capensis 2. Boehmeria cylindrica 3. Sambueus nigra 4. Panicum hemitomon 5.	15 15 25	yes yes	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
1. Impatiens Capensis 2. Boehmeria cylindrica 3. Sambucus nigra 4. Panirum hemitomon 5.	15 15 25	yes yes yes	FACW FAC FACW	¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
1. Impatiens Capensis 2. Boehmeria cylindrica 3. Sambreus nisra 4. Panicum hemitomon 5. 6.	15 15 25	yes yes yes	FACW FAC FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
1. Impatiens Capensis 2. Boehmeria cylindrica 3. Sambueus nigra 4. Panicum hemitomon 5. 6. 7.	15 15 25	yes yes yes	FACW FAC FACW	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
1. Impatiens Capensis 2. Boehmeria cylindrica 3. Sambreus nisra 4. Panicum hemitomon 5. 6.	15 15 25	yes yes yes	FACW FAC FACW	¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
1. Impatiens Capensis 2. Boehmeria cylindrica 3. Sambucus nigra 4. Panirum hemitomon 5. 6. 7. 8.	15 15 25	yes yes yes	FACW FAC FACW	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less
1. Impatiens Capensis 2. Boehmeria cylindrica 3. Sambucus nisra 4. Panicum hemitomon 5. 6. 7. 8. 9.	15 15 25	yes yes yes	FACW FAC FACW	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
1. Impatiens Capensis 2. Boehmeria cylindrica 3. Sambucus nisra 4. Panicum hemitomon 5. 6. 7. 8. 9.	15 15 25	yes yes yes	FACW FAC FACW	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless
1. Impatiens Capensis 2. Boehmeria cylindrica 3. Sambreas nisra 4. Panicum hemitomon 5. 6. 7. 8. 9. 10.	75 = 75 =	yes yes yes	FACW FAC F4CW	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
1. Impatiens capensis 2. Boehmeria cylindrica 3. Sambreus nisra 4. Panicum hem tomon 5. 6. 7. 8. 9. 10. 11.	75 = 75 =	yes yes yes	FACW FAC F4CW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
1. Impatiens Capensis 2. Boehmeria cylindrica 3. Sambreus nisra 4. Panicum hem tomon 5. 6. 7. 8. 9. 10. 11.	75 = 75 =	yes yes yes	FACW FAC F4CW	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless
1. Impatiens Capensis 2. Boehmeria cylindrica 3. Sambreus nigra 4. Panirum hem tomon 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 37.5 Woody Vine Stratum (Plot size: 30ft × 30ft)	75 25 75 20% of	yes yes yes Total Cove	FACW FAC F4CW	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in
1. Impations Capensis 2. Boehmeria cylindrica 3. Sambrous nigra 4. Panicum homitomon 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 37. Woody Vine Stratum (Plot size: 30ft x 30ft) 1. None	75 25 25 75 20% of	yes yes yes Total Covertotal cover:	FACW FAC F4CW	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in
1. Impatiens Capensis 2. Boehmeria Cylindrica 3. Sambreus nisra 4. Panicum hem tomon 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 37. Woody Vine Stratum (Plot size: 30ft × 30ft) 1. None 2.	75 25 25 75 20% of	yes yes yes Total Covertotal cover:	FACW FAC F4CW	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in
1. Impations Capensis 2. Boehmeria cylindrica 3. Sambreus nisra 4. Panicum hem tomon 5. 6. 7. 8. 9. 10. 11.  50% of total cover: 37.  Woody Vine Stratum (Plot size: 30ft × 30ft) 1. None 2. 3.	75 25 25 75 20% of	yes yes yes Total Covertotal cover:	FACW FAC F4CW	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in
1. Impations Capensis 2. Boehmeria Cylindrica 3. Sambrous nisra 4. Panicum hom tomon 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 37. Woody Vine Stratum (Plot size: 30ft × 30ft) 1. Nonc 2.	75 25 25 75 20% of	yes yes yes Total Covertotal cover:	FACW FAC F4CW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in height.
1. Impatiens Capensis 2. Boehmeria cylindrica 3. Sambreus nisra 4. Panicum hemitomon 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 37.5 Woody Vine Stratum (Plot size: 30ft x30fl) 1. None 2. 3. 4.	75 25 25 75 = 20% of	yes yes yes Total Covertotal cover:	FACW FAC F4CW	¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in height.
1. Impations Capensis 2. Boehmeria cylindrica 3. Sambreus nisra 4. Panicum hem tomon 5. 6. 7. 8. 9. 10. 11.  50% of total cover: 37.  Woody Vine Stratum (Plot size: 30ft × 30ft) 1. None 2. 3.	75 25 75 20% of	yes yes yes Total Cove	FACW FAC FACW	¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in height.
1. Impatiens Capensis 2. Boehmeria cylindrica 3. Sambreus nisra 4. Panicum hemitomon 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 37.5 Woody Vine Stratum (Plot size: 30ft x30fl) 1. None 2. 3. 4.	75 25 25 75 = 0 20% of	yes yes yes Total Cover:	FACW FAC FACW	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in height.

epth Matrix		Redo	ox Features		n the absence of in	
nches) Color (moist)	%	Color (moist)	%Type	CONTRACTOR OF THE	10/10/10	Remarks
1-20 10 yr 4/1	15	7xr 5/8	25 C	_ M_	CL_	
	-		_			
pe: C=Concentration, D=De	epletion, RM=	Reduced Matrix, M	S=Masked Sand	Grains.	<sup>2</sup> Location: PL=Por	
dric Soil Indicators: Histosol (A1)		Dark Surface	e (S7)			for Problematic Hydric Soils <sup>3</sup> : fuck (A10) (MLRA 147)
Histic Epipedon (A2)		Polyvalue Be	elow Surface (S8)		148) Coast	Prairie Redox (A16)
Black Histic (A3) Hydrogen Sulfide (A4)			urface (S9) (MLR ed Matrix (F2)	4 147, 148)		RA 147, 148) ont Floodplain Soils (F19)
Stratified Layers (A5)		Depleted Ma			(ML	RA 136, 147)
2 cm Muck (A10) (LRR N)	(0.44)		Surface (F6)			arent Material (TF2) hallow Dark Surface (TF12)
Depleted Below Dark Surfa Thick Dark Surface (A12)	ace (A11)	Redox Depre	rk Surface (F7) essions (F8)			Explain in Remarks)
Sandy Mucky Mineral (S1)	(LRR N,	Iron-Mangar	nese Masses (F12	(LRR N,		
MLRA 147, 148) Sandy Gleyed Matrix (S4)		MLRA 13	36) ace (F13) (MLRA	136 122)	3Indicator	s of hydrophytic vegetation and
Sandy Gleyed Mathx (34) Sandy Redox (S5)		Piedmont Flo			(8) wetlan	d hydrology must be present,
Stripped Matrix (S6)					unless	disturbed or problematic.
- 4 - 1 - 41 1						
estrictive Layer (if observed	1).					
strictive Layer (if observed Type: Depth (inches):					Hydric Soil Pres	ent? Yes No
Type: Depth (inches):					Hydric Soil Pres	ent? Yes No No
Type: Depth (inches):					Hydric Soil Pres	ent? Yes <u> </u>
Type: Depth (inches):		<u> </u>			Hydric Soil Pres	ent? Yes No
Type: Depth (inches):					Hydric Soll Pres	ent? Yes No No
Type: Depth (inches):					Hydric Soil Pres	ent? Yes <u> </u>
Type: Depth (inches):					Hydric Soil Pres	ent? Yes <u> </u>
Type: Depth (inches):					Hydric Soil Pres	ent? Yes <u> </u>
Type: Depth (inches):					Hydric Soil Pres	ent? Yes <u> </u>
Type: Depth (inches):					Hydric Soil Pres	ent? Yes No No
Type: Depth (inches):					Hydric Soil Pres	ent? Yes No No
Type: Depth (inches):					Hydric Soil Pres	ent? Yes No No
Type: Depth (inches):					Hydric Soil Pres	ent? Yes No No
Type: Depth (inches):					Hydric Soil Pres	ent? Yes No No
Type: Depth (inches):		<del>-</del>			Hydric Soil Pres	ent? Yes No No
Type:					Hydric Soil Pres	ent? Yes No No
Type: Depth (inches):					Hydric Soil Pres	ent? Yes No No
Type: Depth (inches):					Hydric Soil Pres	ent? Yes No No



Wetland data point wnos001f\_w facing south.



Wetland data point wnos001f\_w facing east.

roject/Site: ACP City/County: Nottoway Sampling Date: 6-21-1
pplicant/Owner: Dominion State: VA Sampling Point: wnos 001
vestigator(s): _ESI(w.Uaughen, S.Bryan) Section, Township, Range: _NOne
andform (hillslope, terrace, etc.): K:\\Slope Local relief (concave, convex, none): Convex Slope (%): 2-5
ubregion (LRR or MLRA): LRRP Lat: 37, 1299 79 Long: -77, 967821 Datum: WGS 81
oil Map Unit Name: Cecil Clay loan NWI classification: NA
re climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
re Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
re Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)
UMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?  Yes No  Hydric Soil Present?  Yes No  No  Wetland Hydrology Present?  Yes No  No
Remarks:
YDROLOGY
Wetland Hydrology Indicators: Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)  Surface Soil Cracks (B6)  Sparsely Vesetated Cassava Surface (B2)
Surface Water (A1) True Aquatic Plants (B14) Sparsely Vegetated Concave Surface (B8) High Water Table (A2) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10)
High Water Table (A2) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Saturation (A3) Oxidized Rhizospheres on Living Roots (C3) Moss Trim Lines (B16)
Water Marks (B1)  Presence of Reduced Iron (C4)  Dry-Season Water Table (C2)
Sediment Deposits (B2)  Recent Iron Reduction in Tilled Soils (C6)  Crayfish Burrows (C8)
Drift Deposits (B3) Thin Muck Surface (C7) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Other (Explain in Remarks) Stunted or Stressed Plants (D1)
Iron Deposits (B5) Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7) Shallow Aquitard (D3)
Water-Stained Leaves (B9) Microtopographic Relief (D4)
Aquatic Fauna (B13) FAC-Neutral Test (D5)
Field Observations:
Surface Water Present? Yes No Depth (inches): NA No Depth (inches): >20 in
Nater Table Present? Yes No Depth (inches): 2010 Wetland Hydrology Present? Yes No Depth (inches): 2010
Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks:

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

Tree Stratum (Plot size: 30ft x30ft) 1. Lindendran tulipitera	Absolute % Cover 30	Dominant Species?	All the second s	Dominance Test worksheet:  Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2. Acer rubrum 3.	10	yes	FAC	Total Number of Dominant Species Across All Strata:  [B]
4       5       6		-		Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
7	70 20% of	= Total Cover:	er <sub>8</sub>	Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 3 oft x3 oft)				FACW species 20 x2= 40
1. Liriodendron tulipitera	40	ves	FACU	FAC species $25 \times 3 = 75$
2. Acer rubrum 3.	A TOTAL OF THE STREET OF	yes	FAC	FACU species 105 x 4 = 420 UPL species
4				Column Totals: 150 (A) 535 (B)
5.				Prevalence Index = B/A = 3.57
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
	***			2 - Dominance Test is >50%
9	50			3 - Prevalence Index is ≤3.0¹
50% of total cover: 25		Total Cover:		4 - Morphological Adaptations¹ (Provide supporting
Herb Stratum (Plot size: 3 of + 30/4)	20 /6 01	total cover.	/0	data in Remarks or on a separate sheet)
1. Rubus argutus	5	no	FACU	Problematic Hydrophytic Vegetation¹ (Explain)
2. Polystichum acrostichoides	10	yes	FACU	
3. Phyto lacca americana	5	no	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. Panicum hemitomon	20	yes	FACW	Definitions of Four Vegetation Strata:
5.				
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
8 9				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
10			-	m) tall.
11		Total Cove	0	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30F1 - 30F1)	_ 20% 01	total cover:_		Woody vine – All woody vines greater than 3.28 ft in height.
1. Parthenocissus quinquefolia	10	Ya	FACU FACU	
2. Lonicera japonica 3. Vitis rotundifolia	-	yes	FAC	
3. VIFO TOTUNA. TOTIA		ye)	PAC	
			7893	Hydrophytic
	20 =	Total Cove		Vegetation Present? Yes No
50% of total cover:/o		total cover:_		
Remarks: (Include photo numbers here or on a separate sh	- 12 10 to 12 10 10 10 10 10 10 10 10 10 10 10 10 10	essivate promite de la constanta de la constant La constanta de la constanta d		
	<			

Matrix							
		Color (moist)	%Typ	e' Loc <sup>2</sup>		Rema	arks
y 3/2			<u> </u>		DLL		
iy 6/6	100				SCL		
						•	
	pletion, RM=	Reduced Matrix, MS	S=Masked Sand	Grains.	<sup>2</sup> Location: PL=	Pore Lining, M=Mators for Problemat	atrix. tic Hydric Soils <sup>3</sup> :
3) de (A4) rs (A5) 0) (LRR N) w Dark Surfac face (A12) Mineral (S1) ( 148) Matrix (S4) (S5)		Polyvalue Be Thin Dark Su Loamy Gleye Depleted Ma Redox Dark Depleted Da Redox Depre Iron-Mangan MLRA 13	elow Surface (S8) Inface (S9) (MLF Inface (S9) (MLF Inface (F3) Inface (F6) Inface (F6) Inface (F7) Inface (F8) Inface (F8) Inface (F13) (MLF Inface (F13) (	2) (LRR N,	. 148) Co Pic Re Ve Ot	past Prairie Redox ( (MLRA 147, 148) edmont Floodplain ( (MLRA 136, 147) ed Parent Material ( ery Shallow Dark Su ther (Explain in Ren cators of hydrophytic	A16) Soils (F19) TF2) urface (TF12) narks) ic vegetation and ust be present,
	):				un	less disturbed or pr	robiemauc.
					Hydric Soil I	Present? Yes _	No
	Matrix plor (moist)  3/2  3/2  cration, D=Deletors:  In (A2)  3) ide (A4) Irs (A5) IO) (LRR N) W Dark Surface Iface (A12) Mineral (S1) ( 148) Matrix (S4) (S5) x (S6) (if observed)	Matrix plor (moist)	Matrix Redo Color (moist) %  Color (moist)  Sy 3/2 ///  Sy G/C ///  Tration, D=Depletion, RM=Reduced Matrix, MS tors:  Dark Surface Polyvalue Be 3) Thin Dark Su ide (A4) Loamy Gleye rs (A5) Depleted Ma rs (A5) Redox Dark No Dark Surface (A11) Pepleted Dark face (A12) Redox Depre Mineral (S1) (LRR N, Iron-Mangan Matrix (S4) Depleted Surface Mineral (S1) (LRR N, Iron-Mangan Matrix (S4) Piedmont Flo x (S6) (if observed):	Matrix Solor (moist) Solor (mo	Matrix Redox Features Color (moist) % Type¹ Loc²  Color (moist) % Type¹ Loca Loca Loca Loca Loca Loca Loca Loca	Matrix	Tration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.   2   Location: PL=Pore Lining, M=Miles



Upland data point wnos001\_u facing northeast.



Upland data point wnos001\_u facing north.

Project/Site: Atlantic Coast Pipeline City/County: NA/Nottoway Sampling Date: 9/12/2014  Applicant/Owner: Dominion Transmission State: VA Sampling Point: WNOLAGE W
The same of the sa
Landform (hillslope, terrace, etc.): Stefage Stope Local relief (concave, convex, none): Concave Slope (%): 5-6  Subregion (LRR or MLRA): LRR P Lat: 37.128651494 Long: -77.964485884 Datum: NAD \$3
the short of the s
3
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?  Hydric Soil Present?  Yes No
Wetland Hydrology Present? Yes No No
Remarks: Seepage stope system abutting intermittent stream. Area is a wetland.
PHOTOS # 100-12/0 to 12/4
HYDROLOGY
Wetland Hydrology Indicators:  Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)  Surface Soil Cracks (B6)
Surface Water (A1)  True Aquatic Plants (B14)  Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)  Hydrogen Sulfide Odor (C1)  Drainage Patterns (B10)
Saturation (A3) Oxidized Rhizospheres on Living Roots (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of Reduced Iron (C4) Dry-Season Water Table (C2)
Sediment Deposits (B2)  Recent Iron Reduction in Tilled Soils (C6)  Crayfish Burrows (C8)
Drift Deposits (B3)  Thin Muck Surface (C7)  Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)  Other (Explain in Remarks)  Stunted or Stressed Plants (D1)
☐ Iron Deposits (B5) ☐ Geomorphic Position (D2) ☐ Inundation Visible on Aerial Imagery (B7) ☐ Shallow Aquitard (D3)
Water-Stained Leaves (B9)  Microtopographic Relief (D4)
Aquatic Fauna (B13)  FAC-Neutral Test (D5)
Field Observations:
Surface Water Present? Yes Depth (inches): No Depth (inches): No Depth (inches):
Water Table Present? Yes Depth (inches): NA
Saturation Present? Yes No Depth (inches): 2 Wetland Hydrology Present? Yes No No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
NA
Remarks:
Hydrology Criteria is met.

1 0	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft)	% Cover	Species?	Status	1
1. Liriodendron fulipitera	40	_Y_	FACU	Number of Dominant Species That Are OBL, FACW, or FAC:  (A)
2. Betula nigra	20	N	FACW	
3. Pinus taedu	İta	7	FAL	Total Number of Dominant Species Across All Strata:  (B)
			1710	Species Across Ail Strata (b)
4				Percent of Dominant Species
5				Percent of Dominant Species That Are OBL, FACW, or FAC:  57% (A/B)
6				Prevalence Index worksheet:
	110	= Total Cov	er	
50% of total cover:5	20% 0	f total cover	22	Total % Cover of: Multiply by:
Sapling Stratum (Plot size: 15 Ft )	2070 0	total cover.		OBL species x 1 =
Saping Stratum (Plot size: 17 1	Co	<b>✓</b>	FACU	FACW species x 2 =
1. Lirodendran tulipifera	<u> </u>	· <u> </u>		FAC species x 3 =
2. Pinus taects	<u> 20                                    </u>	. <u>// Y</u>	FAC	FACU species x 4 =
3				
4				UPL species x 5 =
5				Column Totals: (A) (B)
				5 1 1 54
6		. ——		Prevalence Index = B/A =
	36	= Total Cov	er	Hydrophytic Vegetation Indicators:
50% of total cover:	<b>)</b> 20% of	f total cover	16	1,- Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 15 ft)		. total cover.		2 - Dominance Test is >50%
Siliub Suduili (Flot Size: 17 17	20	<b>✓</b>	CARN	3 - Prevalence Index is ≤3.0¹
1. Liriodendron tulipitera	20	· <del>- }</del>	FAW	
2. Liquidanber Styracifing	20	<u> </u>	FAC	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
3				para-q
4				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
	50	= Total Cov	er	Definitions of Five Vegetation Strata:
50% of total cover:	20% o	f total cover:	10	
Herb Stratum (Plot size: 5 ft )				Tree – Woody plants, excluding woody vines,
All ( Plot Size. )	2-	<b>V</b>	600	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
1. Athycium asplenioides			FAC	(7.0 cm) of larger in diameter at breast neight (DBH).
2. Microstegium Vimineum	_ 25	. <u> </u>	FAC	Sapling – Woody plants, excluding woody vines,
3. Quercus Phellos		<u> N</u>	FAC	approximately 20 ft (6 m) or more in height and less
4. Ebbnymus americanus	5	N	FAC	than 3 in. (7.6 cm) DBH.
5				Shrub – Woody plants, excluding woody vines,
c.				approximately 3 to 20 ft (1 to 6 m) in height.
6		·		, , , , , , , , , , , , , , , , , , ,
7				Herb – All herbaceous (non-woody) plants, including
8				herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3
9				ft (1 m) in height.
10				,
11.				Woody vine – All woody vines, regardless of height.
''' <u>-</u>	15	= Total Cov		
50% of total cover: <b>32</b>	و 20% و <b>حج</b>	f total cover:	15	
Woody Vine Stratum (Plot size: 30 FT )				
1 . <b></b>				
2		·		·
3				•
4				
5				Hadasakaria
		= Total Cov	er	Hydrophytic
				Vegetation Present? Yes No
50% of total cover:	20% o	f total cover		100 1100
Remarks: (Include photo numbers here or on a separate s	sheet.)			
Criteria met,				

Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Features %	_Type <sup>1</sup>	_Loc <sup>2</sup>	Toytura
0-1	10 YR 2/2	100	COIOI (MOISE)		<u>ype</u>		
- 4	10 YR 6/2	100	-				Sardy loan
t-2-	10 YR 7/1		ave I id				Sandy loan
-20	10 1K //	80	10YR 6/8	20		<u>M</u>	Sandy clay loom
				-			
pe: C=C	oncentration, D=Dep	letion RM:	=Reduced Matrix M	S-Masked	Sand Gra	ine	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
ric Soil	Indicators:		. rouged many, m	3-IVIUSICU	Juna Ora		Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface	(S7)			2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be	low Surfac	e (S8) <b>(M</b>	LRA 147,	, 148) Coast Prairie Redox (A16)
Black Hi	· ·		Thin Dark Su	rface (S9)	(MLRA 1	47, 148)	(MLRA 147, 148)
	en Sulfide (A4) d Layers (A5)		Loamy Gleye Depleted Ma		2)		Piedmont Floodplain Soils (F19)
	ick (A10) (LRR N)		Redox Dark		5)		(MLRA 136, 147)  Very Shallow Dark Surface (TF12)
Depleted	d Below Dark Surface	e (A11)	Depleted Da				Other (Explain in Remarks)
	ark Surface (A12)		Redox Depre				<u> </u>
	Mucky Mineral (S1) (L	_RR N,	iron-Mangan		s (F12) <b>(L</b>	.RR N,	
	A 147, 148) Gleyed Matrix (S4)		MLRA 13  Umbric Surfa	•	#I DA 12	: 122)	3Indicators of budges leading and at a second
	Redox (S5)		Piedmont Flo				<ul> <li>Indicators of hydrophytic vegetation and wetland hydrology must be present,</li> </ul>
	Matrix (S6)		Red Parent N				
strictive I	Layer (if observed):						
Type:	NA						
	ches): NA					-	Hydric Soil Present? Yes Ves No
narks:	11.10: 0-10						
	Hydric Soils	> cnt	eria Met	,			



Wetland data point wnol006f\_w facing East



Wetland data point wnol006f\_w facing South



Wetland data point wnol006f\_w soil sample

Project/Site: Atlantic Coast Pipeline City/County: Nottoway Sampling Date: 09/12/14  Applicant/Owner: Dominion Transmission State: VA Sampling Point: W101006-U
Investigator(s): Sheridan Section, Township, Range: NA  Landform (hillslope, terrace, etc.): Local relief (concave, convex, none): Slope (%):
Subregion (LRR or MLRA): LRP Lat: 37.128555341 Long: -77.964141656 Datum: NAD 83  Soil Map Unit Name: Colfex sondy loan, undulating phase NWI classification: NA  Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
Are Vegetation Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No No Normal Circumstances" present? Yes No Normal Circumstances present?
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?  Yes No V  Remarks: Dia a la
Remarks: Planted bedded pine upland. Area is not a wetland.
Photos: 100 - 1218 to 1222
HYDROLOGY
Wetland Hydrology Indicators:         Primary Indicators (minimum of one is required; check all that apply)       Surface Soil Cracks (B6)         Surface Water (A1)       True Aquatic Plants (B14)       Sparsely Vegetated Concave Surface (B8)         High Water Table (A2)       Hydrogen Sulfide Odor (C1)       Drainage Patterns (B10)         Saturation (A3)       Oxidized Rhizospheres on Living Roots (C3)       Moss Trim Lines (B16)         Water Marks (B1)       Presence of Reduced Iron (C4)       Dry-Season Water Table (C2)         Sediment Deposits (B2)       Recent Iron Reduction in Tilled Soils (C6)       Crayfish Burrows (C8)         Drift Deposits (B3)       Thin Muck Surface (C7)       Saturation Visible on Aerial Imagery (C9)         Inundation Visible on Aerial Imagery (B7)       Stallow Aquitard (D3)         Water-Stained Leaves (B9)       Microtopographic Relief (D4)         Aquatic Fauna (B13)       Depth (inches):         NA       Water Table Present?       Yes       No         Vestand Hydrology Present?       Yes       No         Saturation Present?       Yes       No       Depth (inches):       NA
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  NA
Hydrology criteria not met.

370	Absolute	Dominant I	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30+1)		Species?	Status	Number of Dominant Species iL
1. Pinus taeda	<u>le5</u>	<u> </u>	FAC	That Are OBL, FACW, or FAC:(A)
2. Quercus falcata	25	Ý	FACU	
•			<u> </u>	Total Number of Dominant Species Across All Strata:  (B)
3				Species Across All Strata: (B)
4		<del></del>		Percent of Dominant Species
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 44% (A/B)
6.				
	90	= Total Cove	er	Prevalence Index worksheet:
i.			.4	Total % Cover of: Multiply by:
50% of total cover:	20% of	total cover:	10	OBL species x1 =
Sapling Stratum (Plot size: 5ft.)			_	FACW species x 2 =
1. Pinus tacda	40_	<u> </u>	FAC	1
2 Carua diabra		Y	FACU	FAC species x 3 =
3 Juercus velutina	20	7	NII	FACU species x 4 =
3 GUEROS VEIDIROS	10	<del></del>		UPL species x 5 =
4 Cornus Florida	_10_		FACU	Column Totals: (A) (B)
5				·
6.				Prevalence Index = B/A =
	90	= Total Cove	er '	Hydrophytic Vegetation Indicators:
Li.				1 - Rapid Test for Hydrophytic Vegetation
50% of total cover:	2 20% o	total cover:	10	
Shrub Stratum (Plot size: 18ft)	_ •	J	C &	2 - Dominance Test is >50%
1. Pinus tarda.	20	<u> </u>	FAC	3 - Prevalence Index is ≤3.01
2 (1) 10 xx 115 des 1 (1) tzl	15	Y	FACU	4 - Morphological Adaptations (Provide supporting
3 liquidambar styraciflua	15	<u> </u>	FAL	data in Remarks or on a separate sheet)
3. LIGUILLEUNIDUR STOTALEIFWAL	. <u>-13</u>		The	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
4				
5				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6.				be present, unless disturbed or problematic.
	50	= Total Cov	er	Definitions of Five Vegetation Strata:
	_			Definitions of Five vegetation strata.
50% of total cover: 2	<u>≥</u> 20% o	f total cover:	<u> </u>	Tree - Woody plants, excluding woody vines,
Herb Stratum (Plot size: 54	~~			approximately 20 ft (6 m) or more in height and 3 in.
1. Vaccinium angustifolium	7) <	A	EARL	(7.6 cm) or larger in diameter at breast height (DBH).
	20		PACO	3.
2 Acer rubrum	<u>5</u>	<u> </u>	FACU	
2. Acer rubrum	<u>5</u>	N		Sapling - Woody plants, excluding woody vines,
2. Acer rubrum 3.	<u>5</u>	N		
2. Acer rubrum 3	5	N		Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
2. Acer rubrum 3 4 5	5	N_		Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines,
2. Acer rubrum 3 4 5	<b>.</b>	_ N		Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
2. Acer rubrum 3			FAC	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
2. Acer rubrum 3. 4. 5. 6. 7.		N	FAC	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
2. Acer rubrum 3		N	FAC	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3
2. Acer rubrum 3. 4. 5. 6. 7. 8. 9.		N	FAC	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
2. Acer rubrum 3		N	FAC	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
2. Acer rubrum 3. 4. 5. 6. 7. 8. 9.		N	FAC	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3
2. Acer rubrum 3		N	FAC	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
2. Acer rubrum 3. 4. 5. 6. 7. 8. 9. 10. 11	30	= Total Cov	FAC	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
2. Acer rubrum 3. 4. 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 15	30	N	FAC	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
2. Acer rubrum 3. 4. 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 15	30	= Total Cov	FAC	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
2. Acer rubrum 3. 4. 5. 6. 7. 8. 9. 10. 11	30 20% c	= Total Cov	FAC	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
2. Acer rubrum 3. 4. 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 15 Woody Vine Stratum (Plot size: 30 ft ) 1. MT	30 20% c	= Total Cov	FAC	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
2. Acer rubrum 3	30 20% 0	= Total Cov	FAC	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
2. Acer rubrum 3	<b>30</b> 20% c	= Total Cov	FAC	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
2. Acer rubrum 3	<b>30</b> 20% c	= Total Cov	FAC	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
2. Acer rubrum 3	30 20% 0	= Total Cover:	FAC	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.
2. Acer rubrum 3	30 20% 0	= Total Cov	FAC	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.  Hydrophytic Vegetation
2. Acer rubrum 3	30 20% c	= Total Cover:	PAC C	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.
2. Acer rubrum 3	30 20% c	= Total Cov	PAC C	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.  Hydrophytic Vegetation
2. Acer rubrum 3	30 20% c	= Total Cover:	PAC C	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.  Hydrophytic Vegetation

Profile Des	cription: (Describe	to the dep	th needed to docu	ment the ir	ndicator	or confirn	n the absence	of indicat	ors.)	
Depth	Matrix			x Features	5					
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>		Remarks	
toyk bt										
0-14	10 YR 10/4	100	NA				fine sa	nd		
14-20	1.54714	1111	MA		_		Sanda	lagan		
		100	) ( 1)				30109	1000		
								-		
<sup>1</sup> Type: C=C	oncentration, D=Dep	letion, RM	=Reduced Matrix, M	S=Masked	Sand Gra	ains.	<sup>2</sup> Location: F	L=Pore Lin	ing, M=Matrix.	
Hydric Soil									roblematic Hy	dric Soils <sup>3</sup> :
Histosol	l (A1)		Dark Surface	e (S7)					(A10) <b>(MLRA 1</b> -	i i
	pipedon (A2)		Polyvalue B		ce (S8) <b>(N</b>	ILRA 147,			e Redox (A16)	,
	istic (A3)		Thin Dark S				· —	(MLRA 1		
	en Sulfide (A4)		Loamy Gley	ed Matrix (I	F2)		<u>□</u> F	Piedmont Fl	oodplain Soils	(F19)
	d Layers (A5)		Depleted Ma				_	(MLRA 1		
	uck (A10) (LRR N)		Redox Dark					-	w Dark Surface	
· — ·	d Below Dark Surface	e (A11)	Depleted Da					Other (Expla	ain in Remarks)	
_	ark Surface (A12)	DD N	Redox Depr			LDDN				
	Mucky Mineral (S1) <b>(L</b> <b>A 147, 148)</b>	.KK N,	☐ Iron-Mangar MLRA 13		es (F12) (	LKK N,				
	Gleyed Matrix (S4)		Umbric Surf	•	MI PΔ 13	6 122)	3Inc	dicators of h	nydrophytic veg	etation and
	Redox (S5)		Piedmont Fl						ology must be p	
	d Matrix (S6)		Red Parent					_	oed or problema	
	Layer (if observed):						1			
Type: 🗘	18									/
Depth (in	ches): NA		<del></del>				Hydric Soi	l Present?	Yes	No L
Remarks:							1 3			
11 1	1	٠.								
Ma	uric soil	crit	cria no	Tm	et.					
,			* 4		•					



Upland data point wnol006\_u facing North



Upland data point wnol006\_u facing South



Upland data point wnol006\_u soil sample

Project/Site: Atlantic Coast Pipeline		City/C	County: Nottoway		Sampling Date: 3/30/2015		
Applicant/Owner: Dominion				State: VA	Sampling Point: wnoa010f_w		
			on, Township, Range: No				
Landform (hillslope, terrace, etc.): dra							
Subregion (LRR or MLRA):	Lat:	37.12775956	Long: -77.	95936336	Datum: WGS 1984		
Soil Map Unit Name: Worsham sand	y loam			NWI classific	cation: None		
Are climatic / hydrologic conditions or	n the site typical fo						
Are Vegetation, Soil,	or Hydrology	significantly distur	bed? Are "Norma	I Circumstances"	oresent? Yes No		
Are Vegetation, Soil,							
SUMMARY OF FINDINGS -							
Hydraphytic Vegetation Present?	V00 <b>V</b>	No					
Hydrophytic Vegetation Present? Hydric Soil Present?		No No	Is the Sampled Area				
Wetland Hydrology Present?	Yes 🔽		within a Wetland?	Yes	No		
Remarks:							
HYDROLOGY							
Wetland Hydrology Indicators:				Secondary Indica	ators (minimum of two required)		
Primary Indicators (minimum of one	is required; chec	k all that apply)		Surface Soil			
Surface Water (A1)	-	True Aquatic Plants (	B14)		getated Concave Surface (B8)		
High Water Table (A2)		Hydrogen Sulfide Od		✓ Drainage Pa			
✓ Saturation (A3)				Moss Trim L	ines (B16)		
Water Marks (B1)		Presence of Reduced	d Iron (C4)	Dry-Season Water Table (C2)			
Sediment Deposits (B2)		Recent Iron Reduction	n in Tilled Soils (C6)	Crayfish Bur	rows (C8)		
Drift Deposits (B3)		Thin Muck Surface (C			isible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	_	Other (Explain in Rer	marks)		tressed Plants (D1)		
Iron Deposits (B5)	(==)			<u>✓</u> Geomorphic	, ,		
Inundation Visible on Aerial Ima	igery (B7)			Shallow Aqu			
Water-Stained Leaves (B9)					aphic Relief (D4)		
Aquatic Fauna (B13)				FAC-Neutra	Trest (D5)		
Field Observations: Surface Water Present? Yes	No. V	Depth (inches):					
	No		3				
	No		1 Wetland b	lydrology Prese	nt? Yes 🗸 No		
(includes capillary fringe)	NO	Deptif (inches)	wetland i	Tydrology Fresei	it: 165 NO		
Describe Recorded Data (stream ga	auge, monitoring v	vell, aerial photos, pre	evious inspections), if ava	ilable:			
Remarks:							
Remarks.							

Sampling Point: wnoa010f_v	Sampling	Point-wnoa010f_	w
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	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 )	% Cover 13		Status FAC	Number of Dominant Species
1. Pinus taeda		Yes		That Are OBL, FACW, or FAC: 7 (A)
2. Liquidambar styraciflua	12	Yes	FAC	Total Number of Dominant
3				Species Across All Strata: 8 (B)
4				
5.				Percent of Dominant Species That Are ORL FACW or FAC: 87.5 (A/R)
0				That Are OBL, FACW, or FAC:87.5 (A/B)
				Prevalence Index worksheet:
7	25			Total % Cover of: Multiply by:
		= Total Cove	er 5	OBL species0 x 1 =0
50% of total cover: 12.5	20% of	total cover:		11 22
Sapiing/Shrub Stratum (Plot size:)				02 276
1. Carpinus caroliniana	30	Yes	FAC	FAC species x 3 =
2. Lindera benzoin	15	Yes	FAC	FACU species x 4 =
3. Vaccinium corymbosum	10	No	FACW	UPL species x 5 =
4				Column Totals: (A) (B)
· · ·				Prevalence Index = B/A =2.93
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				✓ 3 - Prevalence Index is ≤3.0 <sup>1</sup>
	55	= Total Cove	er	
50% of total cover:27.5	20% of	total cover:	11	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
Herb Stratum (Plot size:5				data in Remarks or on a separate sheet)
1 Carex blanda	5	Yes	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Polystichum acrostichoides	4	Yes	FACU	
3. Festuca paradoxa	2	No	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
	1			be present, unless disturbed or problematic.
4. Carex grayi		No	FACW	Definitions of Four Vegetation Strata:
5				<b>-</b> W
6				<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
7				height.
8				
9.	-			Sapling/Shrub – Woody plants, excluding vines, less
10.				than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
				,
11	12			Herb – All herbaceous (non-woody) plants, regardless
6		= Total Cove	er 2.4	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 6	20% of	total cover:	2.4	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size:)				height.
1. Smilax rotundifolia	8	Yes	FAC	
2. Lonicera japonica	7	Yes	FAC	
3.				
4.				
5.				Hydrophytic Vegetation
J	15	T-1-1 O		Present? Yes No No No
50% of total cover: 7.5		= Total Cove	2	
00700110101001011		total cover:		
Remarks: (Include photo numbers here or on a separate s	heet.)			

Depth	Matrix	-	needed to document the indicator or cor Redox Features		
(inches)	Color (moist)	%	Color (moist) % Type <sup>1</sup> Loc	<sup>2</sup> Textu	ire Remarks
0-3	10YR 3/2	100		L	
3-6	10YR 4/2	100		L	
6-13	10YR 5/1	100		SL	
13-22	10YR 6/1	100		LS	
					<del></del>
<sup>1</sup> Type: C=C	Concentration D=Den	letion RM-R	Reduced Matrix, MS=Masked Sand Grains.	<sup>2</sup> l ocatio	on: PL=Pore Lining, M=Matrix.
	Indicators:	nouon, rawi–r	Reduced Matrix, Mic-Masked Sand Stains.		Indicators for Problematic Hydric Soils <sup>3</sup> :
Histoso			Dark Surface (S7)		2 cm Muck (A10) <b>(MLRA 147)</b>
	pipedon (A2)		Polyvalue Below Surface (S8) (MLRA	147 148)	Coast Prairie Redox (A16)
	listic (A3)		Thin Dark Surface (S9) (MLRA 147, 14		(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleyed Matrix (F2)	,	Piedmont Floodplain Soils (F19)
	d Layers (A5)		✓ Depleted Matrix (F3)	-	(MLRA 136, 147)
	uck (A10) (LRR N)		Redox Dark Surface (F6)		Very Shallow Dark Surface (TF12)
	ed Below Dark Surfac	e (A11)	Depleted Dark Surface (F7)	-	Other (Explain in Remarks)
	ark Surface (A12)	(, )	Redox Depressions (F8)	-	<u> </u>
	Mucky Mineral (S1) (I	LRR N.	Iron-Manganese Masses (F12) (LRR N	l.	
	A 147, 148)		MLRA 136)	••	
	Gleyed Matrix (S4)		Umbric Surface (F13) (MLRA 136, 122	)	<sup>3</sup> Indicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Floodplain Soils (F19) (MLR		wetland hydrology must be present,
	d Matrix (S6)		Red Parent Material (F21) (MLRA 127)		unless disturbed or problematic.
	Layer (if observed):	•		ĺ	, , , , , , , , , , , , , , , , , , ,
Type: no					
Depth (in			<del>_</del>	Hydria	Soil Present? Yes V No
				Hydric	Compresent: les No
Remarks:					



Photo 1
Wetland data point wnoa010f\_w facing north



Photo 2
Wetland data point wnoa010f\_w facing south

Project/Site: Atlantic Coast Pipeline	City/County:	Sampling Date: 3/30/2015					
Applicant/Owner: Dominion			Sampling Point: wnoa010_u				
	Local relief (con						
		Long: -77.95933985 Datum: WGS 1984					
Soil Map Unit Name: Worsham sandy loam		NWI cla	assification: None				
Are climatic / hydrologic conditions on the site typica							
Are Vegetation, Soil, or Hydrology _							
Are Vegetation, Soil, or Hydrology _							
SUMMARY OF FINDINGS – Attach site							
		, pomit rocamono, manos					
	No Is the	Sampled Area					
	No within	n a Wetland? Yes _	No				
Wetland Hydrology Present? Yes  Remarks:	NO						
HYDROLOGY		Canadanil	" ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (				
Wetland Hydrology Indicators:	and all that and A		ndicators (minimum of two required)				
Primary Indicators (minimum of one is required; ch			e Soil Cracks (B6)				
	<ul><li>True Aquatic Plants (B14)</li><li>Hydrogen Sulfide Odor (C1)</li></ul>		Sparsely Vegetated Concave Surface (B8)				
	Oxidized Rhizospheres on L	_	Drainage Patterns (B10) Roots (C3) Moss Trim Lines (B16)				
	Presence of Reduced Iron (0		ason Water Table (C2)				
Sediment Deposits (B2)	Recent Iron Reduction in Till		n Burrows (C8)				
Drift Deposits (B3)	Thin Muck Surface (C7)		aturation Visible on Aerial Imagery (C9)				
	Other (Explain in Remarks)		or Stressed Plants (D1)				
Iron Deposits (B5)		Geomoi	rphic Position (D2)				
Inundation Visible on Aerial Imagery (B7)		Shallow	Aquitard (D3)				
Water-Stained Leaves (B9)			pographic Relief (D4)				
Aquatic Fauna (B13)		FAC-Ne	eutral Test (D5)				
Field Observations:	/ Double (Seekees)						
	Depth (inches):						
	Depth (inches): Depth (inches):	Watland Hudnalanu Dr	wasanta yas Na V				
Saturation Present? Yes No No	Depth (Inches):	wetiand Hydrology Pr	resent? Yes No				
Describe Recorded Data (stream gauge, monitoring	ig well, aerial photos, previous ir	nspections), if available:					
Remarks:							
no hydrology indicators present							

Sampling Point: wnoa
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00	Absolute	Dominant Ir	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size:)			Status	Number of Dominant Species _
1. Liriodendron tulipifera	25	Yes	FACU	That Are OBL, FACW, or FAC:5 (A)
2. Liquidambar styraciflua	20	Yes	FAC	Total Number of Demisent
3. Pinus taeda	15	Yes	FAC	Total Number of Dominant Species Across All Strata:  8 (B)
4 Quercus alba	10	No	FACU	(2)
5.		-		Percent of Dominant Species That Are OBL FACW or FAC: 62.5 (A/B)
				That Are OBL, FACW, or FAC: 62.5 (A/B)
6				Prevalence Index worksheet:
7	70			Total % Cover of: Multiply by:
0.5		= Total Cover		OBL species $0 \times 1 = 0$
50% of total cover: 35	20% of	total cover:	14	10 x 1 =
Sapling/Shrub Stratum (Plot size:)				FACW species
1. Carpinus caroliniana	15	Yes	FAC	FAC species x 3 =
2. Vaccinium corymbosum	10	Yes	FACW	FACU species X 4 =
3. Cornus florida	10	Yes	FACU	UPL species x 5 =0
4. Liquidambar styraciflua	7	No	FAC	Column Totals:(A)(B)
5. Viburnum prunifolium	5	No	FACU	
6. Juniperus virginiana	5	No	FACU	Prevalence Index = B/A =3.47
7. Quercus alba		No	FACU	Hydrophytic Vegetation Indicators:
7. Quercus aiba			FACU	1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>
		= Total Cover		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover: 28.5	20% of	total cover:	11.4	
Herb Stratum (Plot size: 5				data in Remarks or on a separate sheet)
1. Polystichum acrostichoides	25	Yes	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Asplenium platyneuron	5	No	FACU	
		-		<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3				be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6				more in diameter at breast height (DBH), regardless of
7				height.
8		-		Canling/Shruth Wasdunlants avaluating vines less
9				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11.				
	30	= Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 15		total cover:	6	or size, and woody plants less than 5.20 ft tail.
0070 01 total 00001:	20 /0 01	total cover		Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size:)  1 Lonicera japonica	12	Yes	FAC	height.
1. <u>Lorincera Japonica</u>			170	
2		·		
3				
4		-		Hydrophytic
5				Vegetation
	12	= Total Cover		Present? Yes No
50% of total cover: 6		total cover:_	2.4	
Remarks: (Include photo numbers here or on a separate s				
remarks. (include priote numbers here of on a separate s	ncci.)			

Profile Des	cription: (Describe	to the dept	h needed to docun	nent the i	indicator	or confirm	n the absen	ice of indicators.)
Depth	Matrix		Redox	k Feature	S1			_
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks
0-3	7.5YR 2.5/1	100					SL	
3-12	7.5YR 4/3	100					SCL	
12-19	10YR 5/3	100					SL	
19-26	10YR 6/3	100					SL	
								<u> </u>
					-			
					-		-	
	Concentration, D=Dep	letion, RM=	Reduced Matrix, MS	S=Masked	d Sand Gr	ains.		: PL=Pore Lining, M=Matrix.
-	Indicators:						Inc	dicators for Problematic Hydric Soils <sup>3</sup> :
Histoso			Dark Surface					_ 2 cm Muck (A10) (MLRA 147)
	Epipedon (A2)		Polyvalue Be				148)	Coast Prairie Redox (A16)
	listic (A3)		Thin Dark Su			47, 148)		(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye		(F2)			Piedmont Floodplain Soils (F19)
	ed Layers (A5) uck (A10) <b>(LRR N)</b>		Depleted Mat		<b>-6</b> )			(MLRA 136, 147) Very Shallow Dark Surface (TF12)
	ed Below Dark Surfac	e (A11)	Depleted Dar					Other (Explain in Remarks)
	Park Surface (A12)	0 (/ (/ / /	Redox Depre					_ Guior (Explain in remaine)
	Mucky Mineral (S1) (I	LRR N,	Iron-Mangane			LRR N,		
	A 147, 148)	,	MLRA 130		· / •	,		
Sandy	Gleyed Matrix (S4)		Umbric Surfa	ce (F13) (	(MLRA 13	6, 122)	3	Indicators of hydrophytic vegetation and
Sandy	Redox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	<b>18</b> )	wetland hydrology must be present,
	d Matrix (S6)		Red Parent M	1aterial (F	21) <b>(MLR</b>	A 127, 147	7)	unless disturbed or problematic.
Restrictive	Layer (if observed):							
Type: _n	one							
Depth (ir	nches):						Hydric S	Soil Present? Yes No
Remarks:								



Photo 1 Upland data point wnoa010\_u facing east



Photo 2 Upland data point wnoa010\_u facing north

Project/Site: Atlantic Coast Pipeline City/County: NA/Nottoway Sampling Date: 9/13/19
Applicant/Owner: Dominion Transmission State: VA Sampling Point: WNOLOOTF-
Investigator(s): W. Medin, R. Sheridan Section, Township, Range: NA
investigator(s). W
Landform (hillslope, terrace, etc.): bottomland Local relief (concave, convex, none): none/ Flat Slope (%): NA  Subregion (LRR or MLRA): LRR P Lat: 37.127737146 Long: -77.955822733 Datum: NAD &3
Sublegion (LRK of MLRA).
Soil Map Unit Name:
Are climate / hydrologic contained is of the site system.
Are vegetation 500 [ ] or right orange in Demorte )
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No Is the Sampled Area
Hydric Soil Present? Yes No within a Wetland? Yes No
Wetland Hydrology Present? Yes No
Remarks: Botton and HW Forest w/ Multiple drainage patterns. Area is a wetland. Wetland abuts downline side of stream SNOLOIG.
and and abute devalue side of strang smar are
Derivide asking block of stressed state of s.
Rugett on 1000 to 1000 (City 1501)
PHOTOS# 100 - 1229 to 1233 Soils, N.E.S.W
HYDROLOGY
Wetland Hydrology Indicators:  Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)  Surface Soil Cracks (B6)
Surface Water (A1)  True Aquatic Plants (B14)  Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)  Hydrogen Sulfide Odor (C1)  Drainage Patterns (B10)
Saturation (A3)  Oxidized Rhizospheres on Living Roots (C3)  Moss Trim Lines (B16)
Water Marks (B1) Presence of Reduced Iron (C4) Dry-Season Water Table (C2)
Sediment Deposits (B2)  Recent Iron Reduction in Tilled Soils (C6)  Crayfish Burrows (C8)  Crayfish Burrows (C8)
Drift Deposits (B3)  Thin Muck Surface (C7)  Saturation Visible on Aerial Imagery (C9)  Algal Mat or Crust (B4)  Other (Explain in Remarks)  Stunted or Stressed Plants (D1)
Againviat of Crust (D4)
Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Inundation Visible on Aerial Imagery (B7)  Microtopographic Relief (D4)
Aquatic Fauna (B13)  FAC-Neutral Test (D5)
Field Observations:
Surface Water Present? Yes Depth (inches):
Water Table Present? Yes No Depth (inches): NA
Saturation Present? Yes No Depth (inches): NA Wetland Hydrology Present? Yes No L
(includes capillary fringe)
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
NA
Remarks:
Remarks: Sphagnum mass observed in some areas.
Hydrology criteria met.

2 5:	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft )		Species?	Status	Number of Dominant Species
1. Acer rubrum	_80_	<u>Y</u> .	FAC	That Are OBL, FACW, or FAC:(A)
2. Carpinus caroliniana 3. Liquidambar styraciflua	40	Y	FAC	, ,
3. Liquidombar styraciflua	15	1	FAC	Total Number of Dominant Species Across All Strata: (B)
1			177	Species Across All Strata: (B)
5				Percent of Dominant Species 62 c/
5	·			Percent of Dominant Species That Are OBL, FACW, or FAC:  83% (A/B)
b				Dravelence Index
	135	= Total Cov	/er	Prevalence Index worksheet:
50% of total cover: <b>_67</b> ,	5 20% of	total cover	27	Total % Cover of: Multiply by:
Sapling Stratum (Plot size: 15 fix		10101 00101	·	OBL species x 1 =
				FACW species x 2 =
1. NA				FAC species x 3 =
2				FACU species x 4 =
3	·			
4				
5				Column Totals: (A) (B)
6				Prevalence Index = B/A =
		= Total Cov		Hydrophytic Vegetation Indicators:
EOO/ of total accord				☐ → Rapid Test for Hydrophytic Vegetation
50% of total cover:	20% 01	total cover	:	1 <b></b>
Shrub Stratum (Plot size: 15 ft)		./	1	Dominance resers 20070
1. Vaccinius corymbosm	<u> </u>		FACIN	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Brydeadrum arboreum			FACU	4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
3				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
4				серения с одошног (сирини)
5				The Property of the Property o
6				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
	10	= Total Cov	/er	
50% of total cover:				Definitions of Five Vegetation Strata:
	20% 01	total cover	:	Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft )	_	-1		approximately 20 ft (6 m) or more in height and 3 in.
1. Athyrium aspleniades	_30_	Y	FAC	(7.6 cm) or larger in diameter at breast height (DBH).
2. Chasmatthium sessiliflorum	25	Y	FAC	Sapling – Woody plants, excluding woody vines,
3. Rudbeckia bicinata	5	7	FACW	approximately 20 ft (6 m) or more in height and less
4				than 3 in. (7.6 cm) DBH.
E				Share Ward I in the
J				Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
6				approximately 3 to 20 ft (1 to 6 ff) in neight.
7				Herb – All herbaceous (non-woody) plants, including
8				herbaceous vines, regardless of size, and woody
9				plants, except woody vines, less than approximately 3 ft (1 m) in height.
10				t (1 m) m noight.
11.				Woody vine - All woody vines, regardless of height.
	60	= Total Cov	·or	
7_				
50% of total cover:	20% of	total cover	:17	
Woody Vine Stratum (Plot size: 30 Ft )				
1. NA				
2				
3				
1				·
4		-		
5				Hydrophytic /
		= Total Cov	/er	Vegetation
50% of total cover:	20% of	total cover	:	Present? Yes No
Remarks: (Include photo numbers here or on a separate s		.5.0. 00101		
Citoria Met	n 1661.)			

Depth	Cription: (Describe t	to the dep				or confirm	n the absence of indica	tors.)	
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>Features</u> %	Type <sup>1</sup>	_Loc²	Texture	Rema	rke
0-4	WYR 4/2	98	104R5/6	2	c	1	Fine sandy loan		11.3
4-9	10 YR 5/2	95	10YR5/8	5	C	M	Sardy clay loop		
9-17	10 YR 5/1	90	10YR5/8	10		44	Sandy loan	<u> </u>	
17-20	10 YR 6/1	90	10YR 6/6	18		44			
<del></del>	10 110 11		10114	_10_		75(	Sandy lown		
		-		· ———				-	
				· <del></del>					
<sup>1</sup> Type: C=Co	oncentration, D=Depl	etion, RM=	Reduced Matrix, MS	=Masked S	Sand Gra	ains.	<sup>2</sup> Location: PL=Pore Li	ning, M=Ma	trix.
Hydric Soil			. ·				Indicators for I	Problematic	Hydric Soils <sup>3</sup> :
Histosol	(A1) Dipedon (A2)		Dark Surface		(0-) (-)		2 cm Muck		•
Black Hi			Polyvalue Belo	ow Surface face (SQ) (	e (S8) (N (MIDA 1	ILRA 147, 47, 140)		•	16)
	n Sulfide (A4)		Loamy Gleyed	Matrix (F	2)	+7, 1 <del>4</del> 0)	(MLRA 1		nils (F19)
	Layers (A5)		Depleted Matr		·		(MLRA 1		0113 (1-13)
	ick (A10) <b>(LRR N)</b> d Below Dark Surface	(411)	Redox Dark S				Very Shallo	w Dark Surf	ace (TF12)
	rk Surface (A12)	(A11)	☐ Depleted Dark ☐ Redox Depres				☐ Other (Expl	ain in Rema	rks)
	lucky Mineral (S1) (LI	RR N,	Iron-Mangane			RR N.			
	147, 148)		MLRA 136)	5					
	leyed Matrix (S4) edox (S5)		Umbric Surfac				<sup>3</sup> Indicators of I	nydrophytic	vegetation and
	Matrix (S6)		☐ Piedmont Floo ☐ Red Parent Ma	dplain Soi	ls (F19)	(MLRA 148			
	ayer (if observed):		1 Rear arent Wa	aterial (FZ	i) (IVILICA	127, 147	unless disturi	ped or probl	ematic.
Туре:	NA NA								
Depth (inc	thes): NA						Hydric Soil Present?	Yes U	No L
Remarks:	11.6. 23	e	ام ما	ł				-	
	Hydric Soils	> Chi	reliq me	τ,	•				
			•						
	, •								
				**			7		



Wetland data point wnol007f\_w facing north



Wetland data point wnol007f\_w facing west



Wetland data point wnol007f\_w soil sample

Project/Site: Atlantic Coast Pipeline City/County: NA/Nottoway Sampling Date: 9/13/14
Applicant/Owner: Dominion Transmission State: VA Sampling Point: WNOLOOT.
Investigator(s): W. Medlin R. Sheridon Section, Township, Range: NA
Landform (hillslope, terrace, etc.): hilslope Local relief (concave, convex, none): COAVEX Slope (%): 15-21
Subregion (LRR or MLRA): <u>IRR P</u> Lat: <u>37.1278/6938</u> Long: <u>77.955649234</u> Datum: <u>NAD 83</u>
Soil Map Unit Name: Mixed alluvial land NWI classification: N/A
Are Vegetation Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes Vegetation Soil Soil Soil No Soil Soil Soil Soil Soil Soil Soil Soi
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No Is the Sampled Area
Hydric Soil Present? Yes No within a Wetland? Yes No No
Wetland Hydrology Present? Yes No V
Remarks: Upland pine plantation on hillslape. Area is not a wetland.
Uponto pine position on missispe, Area is not a wetland.
PHOTOS# 100 - 1234 to 1238
HYDROLOGY
Wetland Hydrology Indicators: Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)  Surface Soil Cracks (B6)
Surface Water (A1)  True Aquatic Plants (B14)  Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)  Hydrogen Sulfide Odor (C1)  Drainage Patterns (B10)
Saturation (A3)  Oxidized Rhizospheres on Living Roots (C3)  Moss Trim Lines (B16)
Water Marks (B1)  Presence of Reduced Iron (C4)  Dry-Season Water Table (C2)
Sediment Deposits (B2)  Recent Iron Reduction in Tilled Soils (C6)  Crayfish Burrows (C8)
Drift Deposits (B3)  Thin Muck Surface (C7)  Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)  Other (Explain in Remarks)  Stunted or Stressed Plants (D1)
Iron Deposits (B5)
Inundation Visible on Aerial Imagery (B7)
Water-Stained Leaves (B9)  Microtopographic Relief (D4)
Aquatic Fauna (B13)
Field Observations:
Surface Water Present? Yes No Depth (inches): NA
Water Table Present? Yes No Depth (inches): NA
Seturation Proceed?
(includes capillary fringe)
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks:
Hydrology Criteria not met.

7 6	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 FV )	% Cover Species? Status	
1. Pinus toeda	60 Y FAC	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
	40 Y FACE	
•		Total Number of Dominant
3		Species Across All Strata:(B)
4		Percent of Dominant Species
5		Percent of Dominant Species That Are OBL, FACW, or FAC: 29 1/6 (A/B)
6		(AB)
	= Total Cover	Prevalence Index worksheet:
500/ -51-1-1	· · · · · · · · · · · · · · · · · · ·	Total % Cover of: Multiply by:
50% of total cover:	20% of total cover: 20	OBL species x 1 =
Sapling Stratum (Plot size: 15 ft		EACW appaign
1. Liciodendron tulipifera	25 Y FACU	
2. Oxydendrum arboreum	15 Y FACU	FAC species x 3 =
3		FACU species x 4 =
		UPL species x 5 =
4		Column Totals: (A) (B)
5		- \
6		Prevalence Index = B/A =
	<u>40</u> = Total Cover	Hydrophytic Vegetation Indicators:
500/ of total anser 7 8	20% of total cover:	1 - Rapid Test for Hydrophytic Vegetation
50% of total cover:	20% or total cover:	-
Shrub Stratum (Plot size: 15 Fi	- ~ ./ -	2 - Dominance Test is >50%
1. Oxydendrum arbareum	70 Y FACU	
2		4 - Morphological Adaptations (Provide supporting
3		data in Remarks or on a separate sheet)
		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
4		-
5		<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6		be present, unless disturbed or problematic.
	= Total Cover	Definitions of Five Vegetation Strata:
50% of total cover: 30	20% of total cover: 14	beinitions of tive vegetation Strata.
Hart Grant or (DL) : 5 CL	20% of total cover:	ree - woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft )	· 1 c.	approximately 20 ft (6 m) or more in height and 3 in.
1. Carya glabra	5 Y FAW	
2. Vaccinium corymbosum	5 Y FACW	Sapling – Woody plants, excluding woody vines,
3	•	approximately 20 ft (6 m) or more in height and less
4.		than 3 in. (7.6 cm) DBH.
5		-
5		Shrub – Woody plants, excluding woody vines,
56		-
5		Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including
		Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
7 8		Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3
7		Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
7		Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
7		Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3
7		Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
7	= Total Cover	Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
7	= Total Cover	Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
7	= Total Cover 20% of total cover: 2	Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
7	= Total Cover 20% of total cover: 2	Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
7	= Total Cover 20% of total cover: 2	Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
7	= Total Cover 20% of total cover: 2	Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
7	io = Total Cover 20% of total cover:2	Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
7	io = Total Cover 20% of total cover:2	Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.
7	io = Total Cover 20% of total cover: 2	Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.  Hydrophytic
7	= Total Cover 20% of total cover:	Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.  Hydrophytic Vegetation
7	= Total Cover 20% of total cover:	Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.  Hydrophytic
7	= Total Cover 20% of total cover: 2 = Total Cover 20% of total cover:	Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.  Hydrophytic Vegetation

	ription: (Describe	to the dep	th needed to docum			or confirm	n the absence of ind	icators.)	
Depth (inches)	Matrix Color (moist)	%	Redox Color (moist)	Features %		Loc <sup>2</sup>	Toyturo	Dome	Veleo
6-8	10YR 413	Go	Color (IIIoist)	70	_Type'	LUC	Sandy loan	Rema	
	10YR 614	40					Sondy loom		
8-15	10 YR 5/2	85	754R5/8	15	<u> </u>	14	Sondy loan	PHAEA	Matrix
	10YR 7/2	85		15		<u> </u>			<i>C</i> 1 2 1
15 20	10 IN 1/2	<u> </u>	10YR 6/8	13	<u> </u>		lowny sand	<u>Kanoj</u>	. Soud grains
								•	
¹Type: C=Co	oncentration, D=Depl	etion, RM=	=Reduced Matrix, MS=	 =Masked	Sand Gra	ins.	<sup>2</sup> Location: PL=Pore	e Lining, M=Ma	atrix.
Hydric Soil I	ndicators:								c Hydric Soils <sup>3</sup> :
Histosol	(A1) ipedon (A2)		Dark Surface (		o (CO) (BE	I DA 447		uck (A10) <b>(M</b> L	
Black His	•		☐ Polyvalue Belo☐ Thin Dark Surf					rairie Redox ( <i>i</i> : <b>A 147, 148)</b>	A16)
	n Sulfide (A4)		oamy Gleyedر	Matrix (F		, ,		nt Floodplain S	Soils (F19)
	Layers (A5) ck (A10) (LRR N)		Depleted Matri Redox Dark St		6)			A 136, 147)	-f (TE40)
	Below Dark Surface	(A11)	Depleted Dark					allow Dark Su Explain in Rem	
	rk Surface (A12)		Redox Depres	sions (F8	3)				,
	lucky Mineral (S1) <b>(L</b> . <b>147, 148)</b>	RR N,	Iron-Manganes MLRA 136)		es (F12) <b>(L</b>	RR N,			
	leyed Matrix (S4)		Umbric Surface		MLRA 136	6, 122)	<sup>3</sup> Indicators	of hydrophytic	vegetation and
	edox (S5)		Piedmont Floo				(8) wetland h	ydrology must	be present,
	Matrix (S6) ayer (if observed):		Red Parent Ma	aterial (F2	21) <b>(MLR</b>	127, 147	7) unless di	sturbed or prol	olematic.
Туре:								_	
Depth (inc	hes): NA						Hydric Soil Prese	nt? Yes 🔼	No L
Remarks:	الديكة حادثا	s crit	recia met,	-			•		
	rigerie sons								
			,						
								a.	·
								<b>v</b>	
							**		
1									. ,



Upland data point wnol007\_u facing south



Upland data point wnol007\_u facing east



Upland data point wnol007\_u soil sample

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region Project/Site: Atlantic Coast Pipeline city/County: Nothoway Sampling Date: Sampling Point: Wnc State: \_V Applicant/Owner: Dominion Transmission Section, Township, Range: NA Investigator(s): R. Sheridan, W. Medlin Landform (hillslope, terrace, etc.): Floodplan Bottom Local relief (concave, convex, none): Concave 7. 94816 Subregion (LRR or MLRA): LRR P Lat: \_3~ NWI classification: Soil Map Unit Name: Mixed alluvial (If no, explain in Remarks.) Are climatic / hydrologic conditions on the site typical for this time of year? Yes\_ Are "Normal Circumstances" present? Yes significantly disturbed? or Hydrology Soil Are Vegetation (If needed, explain any answers in Remarks.) naturally problematic? or Hydrology Soil Are Vegetation SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? within a Wetland? No Hydric Soil Present? Yes No Wetland Hydrology Present? forested wetland. Streamside floodplain Photos: 100-1261 to 1265 HYDROLOGY Secondary Indicators (minimum of two required) Wetland Hydrology Indicators: J Surface Soil Cracks (B6) Primary Indicators (minimum of one is required; check all that apply) True Aquatic Plants (B14) Surface Water (A1) Sparsely Vegetated Concave Surface (B8) High Water Table (A2) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Saturation (A3) Oxidized Rhizospheres on Living Roots (C3) Moss Trim Lines (B16) Water Marks (B1) Presence of Reduced Iron (C4) Dry-Season Water Table (C2) Sediment Deposits (B2) Recent Iron Reduction in Tilled Soils (C6) Crayfish Burrows (C8) Drift Deposits (B3) Thin Muck Surface (C7) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Other (Explain in Remarks) Stunted or Stressed Plants (D1) Iron Deposits (B5) Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Microtopographic Relief (D4) Aquatic Fauna (B13) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Depth (inches): Water Table Present? Depth (inches): Saturation Present? Depth (inches): 10 Wetland Hydrology Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Hydrology Griteria met.

Sampling Point: Wno 1008 F\_W

VEGETATION (Five Strata) - Use scientific names of plants. Dominance Test worksheet: Absolute Dominant Indicator Tree Stratum (Plot size: 30 f + % Cover Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: 1. Acer rubrum 2. Liquidambar styraciflua 10 **Total Number of Dominant** Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total Cover Total % Cover of: \_\_\_\_\_ Multiply by: 50% of total cover: 20% of total cover: OBL species \_\_\_\_\_ x 1 =\_\_\_\_ Sapling Stratum (Plot size: 15ft FACW species \_\_\_\_\_ x 2 =\_\_\_\_ 1. Alnus serrulata FAC species \_\_\_\_ x 3 =\_\_\_ FACU species \_\_\_\_\_ x 4 =\_\_\_\_ UPL species \_ x 5 =\_\_\_\_ Column Totals: \_\_\_\_\_ (A) \_\_\_\_ (B) Prevalence Index = B/A =\_ Hydrophytic Vegetation Indicators: 50% of total cover: 23 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% Shrub Stratum (Plot size: 1 Liquidambar styraciflua 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) <sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. = Total Cover **Definitions of Five Vegetation Strata:** .0% of total cover: 3.5 20% of total cover: 1Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine - All woody vines, regardless of height. 100 = Total Cover 50% of total cover: 50 20% of total cover: 20 1 Campsis radicans 2. Smilax rotundi tolia Hydrophytic = Total Cover Vegetation Present? 50% of total cover: \_ Remarks: (Include photo numbers here or on a separate sheet.) regetation Criteria met

Sampling Point: WnoWO8f

SOIL	ription: (Describe		ded to docum	ent the in	dicator or	confirm	the ab	sence of indicato	ors.)	
Profile Desci	ription: (Describe	to the depth	needed to docum	Features	0.000				Domorks	
Depth	Matrix Color (moist)	<u> </u>	Color (moist)	<u>%</u> .	Type <sup>1</sup>	Loc <sup>2</sup>	Tex	ture	Remarks	
(inches)	10YR 4/3	90 1	07R 314	10	C	PUM	Clo	y loan		
0-5			012416	20	$\overline{c}$	Μ	Cla	y loam		
5-12	104RS/2	. <del></del> -			<u> </u>	M	Sand	y Clayle	ocum	
12-20	10YR 7/2	90 !	018 610	10	<u> </u>	)•1	<u> </u>	4		
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		. —— .					-			
		. <del></del> .								
1-Turney C. C.	oncentration, D=Dep	lotion DM-E	Poducod Matrix MS	-Maskod	Sand Grai	ns	²l oca	tion: PL=Pore Lin	ing M=Matrix.	
Hydric Soil I		Jetion, Kivi=r	Reduced Matrix, Mc	J-Waskea	Jana Orai	113.	Loca	Indicators for P		dric Soils <sup>3</sup> :
Histosol			☐ Dark Surface	(\$7)				_	(A10) <b>(MLRA 1</b> 4	
	ipedon (A2)		Polyvalue Bel		o (SS) (MI	DA 1/17	149)		e Redox (A16)	
Black His			Thin Dark Sur				, 140)	(MLRA 14		
1	n Sulfide (A4)		Loamy Gleye			7, 140,			oodplain Soils (	F19)
	Layers (A5)		Depleted Mat					(MLRA 13	•	. 10,
2 cm Mu	ck (A10) (LRR N)		Redox Dark S	Surface (F6	6)				v Dark Surface	(TF12)
	l Below Dark Surfac	e (A11)	Depleted Darl						nin in Remarks)	
	rk Surface (A12)		Redox Depres							
	ucky Mineral (S1) (I	₋RR N,	☐ Iron-Mangane		s (F12) <b>(LF</b>	RR N,				•
	. <b>147, 148)</b> leyed Matrix (S4)		MLRA 136 Umbric Surfac	•	#I DA 126	122\		3Indicators of b		
	edox (S5)		Piedmont Floo				IR)		ydrophytic vege blogy must be pr	
	Matrix (S6)		Red Parent M						ed or problema	
Restrictive L	ayer (if observed):					<del></del>	Ť.			
Туре: <b>N</b>	+		<del></del>							·
Depth (inc	hes): NA						Hydr	ic Soil Present?	Yes	No L
Remarks:					<del> </del>					
ltuc	dric soil	criter	ia met	•						
				•						
								•		
				•						



Wetland data point wnol008f\_w facing north



Wetland data point wnol008f\_w facing east



Wetland data point wnol008f\_w soil sample

1 1 : : : :	Project/Site:
	Hydrophytic Vegetation Present?  Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Yes No V  Wetland Hydrology Present?  Yes No V  No V  Remarks: Upland early successional slope w/ Mounded dirt. Area is not a Wetland.  Pilotos #100 - 1256 to 1260
	Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Water Satura (B13)  Wetland Hydrology Indicators:  Secondary Indicators (minimum of two required)  Secondary Indicators (minimum of two required)  Secondary Indicators (minimum of two required)  Surface Soil Cracks (B6)  Sparsely Vegetated Concave Surface (B8)  Drainage Patterns (B10)  Sparsely Vegetated Concave Surface (B8)  Moss Trim Lines (B16)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Saturation Visible on Aerial Imagery (C9)  Stunted or Stressed Plants (D1)  Geomorphic Position (D2)  Shallow Aquitard (D3)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)
	Field Observations:  Surface Water Present? Yes No Depth (inches): NA  Water Table Present? Yes No Depth (inches): NA  Saturation Present? Yes No Depth (inches): NA  Wetland Hydrology Present? Yes No

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	Absoluto	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft)		Dominant Species?		Dominance Test worksheet:
1. Quercus prora			FACU	Number of Dominant Species That Are OBL, FACW, or FAC:(A)
October 5 de l'	<u> </u>	<del> </del>	FAC	That Are OBL, FACW, or FAC:(A)
2. Quercus phellos				Total Number of Dominant
3. Juniperus Virginiana	<u>. 15</u>	У	FACU	Species Across All Strata: 12 (B)
4				
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 50% (A/B)
				That Are OBL, FACW, or FAC: $50\%$ (A/B)
6	. <del></del> _			Prevalence Index worksheet:
	<u>(,0</u>	= Total Co	ver .	
50% of total cover: _ 3c	20% 0	f total cover	. 12-	Total % Cover of: Multiply by:
		i total cover		OBL species x 1 =
Sapling Stratum (Plot size: 15 ft)	<b>a</b> .	a.	~^ ·	FACW species x 2 =
1. Pinus taeda	20		FAC	FAC species x 3 =
2. Liquidanbar Styraciflua 3. Licidon Liriodendron tulipitera	20	<u> </u>	FAC	
3. Licidor liriodendros tulipifora	10	N	FALU	FACU species x 4 =
4. Carpinus caroliniana	10	N	FAC	UPL species x 5 =
1			1110	Column Totals: (A) (B)
5				
6				Prevalence Index = B/A =
	60	= Total Cov	/er	Hydrophytic Vegetation Indicators:
2.				1 <u></u>
50% of total cover:	<u></u> 20% o	f total cover	16	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 15 ft				2 - Dominance Test is >50%
1. Betula nigra	15	Y	FACW	3 - Prevalence Index is ≤3.01
2. Quereus alba		$-\sqrt{}$	FACU	4 - Morphological Adaptations (Provide supporting
				data in Remarks or on a separate sheet)
3. Oxydendium arboneum			UPL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
4. Juniperus Virginiana 5. Cornus Horida	10	*1	FALU	Troblematic Hydrophytic Vegetation (Explain)
5. Cornus Horida	5	BN	FACU	
6. Liquidanbar Styraciflia	5	N	FAC	Indicators of hydric soil and wetland hydrology must
O. Diguitoposed St. A. et al. [east		<del> </del>		be present, unless disturbed or problematic.
		~		L
		= Total Cov		Definitions of Five Vegetation Strata:
50% of total cover: 27				·
Herb Stratum (Plot size: 5 50% of total cover: 27				Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 F+ )	<u>.5</u> 20% o			Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
Herb Stratum (Plot size: 5 Ft )  1. Rubus arautus	<u>.5</u> 20% o		FAC	Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 Ft)  1. Rubus argutus  2. Dichanthelium jaxi Florum	.5 20% o	f total cover	FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines,
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Herb Stratum (Plot size: 5 ft)  1. Rubus argutus  2. Dichanthelium jaxiflorum  3. Hypericum hypericoides	.5 20% o	f total cover	FAC FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft)  1. Rubus argutus  2. Dichanthelium laxiflorum  3. Hypericum hypericoides  4. Lobelia puberula	.5 20% o  15  15  10  5	f total cover	FACU FACU FACU FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
Herb Stratum (Plot size: 5 ft)  1. Rubus argutus  2. Dichanthelium laxiflorum  3. Hypericum hypericoides  4. Lobelia puberula  5. Enonymus americanus	.5 20% o  15  15  10  5	f total cover	FACU PACU PACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft)  1. Rubus argutus  2. Dichanthelium laxi Florum  3. Hypericum hypericoides  4. Lobelia puberula  5. Enonymus americanus  6. Rhexia Virginica	.5 20% o  15  15  10  5	f total cover	FACU FACU FACU FACU FACU FACU OBL	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
Herb Stratum (Plot size: 5 ft)  1. Rubus argutus  2. Dichanthelium laxiflorum  3. Hypericum hypericoides  4. Lobelia puberula  5. Eurnymus anericunus  6. Rhexia Virginica  7. Potentilla simplex	.5 20% o  15 15 10 5 5 5 2	f total cover	FACU PACU PACU PACU PACU PACU PACU PACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
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Herb Stratum (Plot size: 5 ft)  1. Rubus argutus  2. Dichanthelium laxiflorum  3. Hypericum hypericoides  4. Lobelia puberula  5. Enonymus anericonus  6. Rhexia Virginica  7. Potentilla simplex  8. Microstegium vimineum  9.  10.  11.  50% of total cover: 29,  Woody Vine Stratum (Plot size: 30 ft)	.5 20% o	N N N N N N N N N N N N N N N N N N N	FACU PACU PACU PACU PACU PACU PACU PACU P	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
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Profile Desc	cription: (Describe t	o the dep	th needed to docum	ent the ir	dicator o	or confirm	n the absence of indicators.)
Depth	Matrix			Features			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	_Loc <sup>2</sup>	Texture Remarks
0-3	10 YR 4/3	100					Sandy loan
3-9	10YR 6/6	85	54R 5/8	_5_	<u></u>	<u> </u>	Sandy cky loan Mixed Mutrix
	10 YR 4/2	10					Sandy clay Ican Mixed Motrix
9-20	104RG/G	90	7.5 YR 5/8	<i>i</i> o	C	<u> </u>	Sandy clay joan gravelly
					-		
1 <sub>Typo</sub> , C. C.	oncontration D. Donl	otion DM	Doduced Matrix MC	Manhad			24
Hydric Soil		ellon, RM:	=Reduced Matrix, MS	=Masked	Sand Gra	ins.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface	(S7)			2 cm Muck (A10) (MLRA 147)
Histic Ep	oipedon (A2)		Polyvalue Bel		e (S8) <b>(M</b>	LRA 147,	
Black Hi			Thin Dark Sur	face (S9)	(MLRA 1		(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleyed		2)		Piedmont Floodplain Soils (F19)
	d Layers (A5) lick (A10) <b>(LRR N)</b>		Depleted Mati		3)		(MLRA 136, 147)  ☐ Very Shallow Dark Surface (TF12)
	d Below Dark Surface	e (A11)	Depleted Dark	•	•		Other (Explain in Remarks)
	ark Surface (A12)		Redox Depres				
	Mucky Mineral (S1) (L	RR N,	☐ Iron-Mangane		s (F12) <b>(L</b>	.RR N,	
	<b>1 147, 148)</b> Gleyed Matrix (S4)		MLRA 136 Umbric Surfac	-	AL DA 120	. 422)	31mdiachana af budasahadi sasahadi sasah
	Redox (S5)		Piedmont Floo				<ul> <li>Indicators of hydrophytic vegetation and wetland hydrology must be present,</li> </ul>
	Matrix (S6)		Red Parent M				
Restrictive I	_ayer (if observed):						
Туре:	NA						
Depth (ind	ches): <u>VA</u>						Hydric Soil Present? Yes No V
	Hadric sails	colta	ia not me	. i.			
	rigorio sons	Conte	אין וטו אין	21 -			



Upland data point wnol008\_u facing north



Upland data point wnol008\_u facing east



Upland data point wnol008\_u soil sample

Project/Site: Atlantic Coast Pipeline	<b>;</b>	City/County: Nottoway County Sampling Date: 11/10/2015						
Applicant/Owner: DOMINION			State: VA	Sampling Point: wnoc101f_w				
Investigator(s): Team C Section, Township, Range: No PLSS in this area								
Landform (hillslope, terrace, etc.):								
Subregion (LRR or MLRA): P	egion (LRR or MLRA): P Lat: 37.12931479 Long: -77.9356206							
Soil Map Unit Name: Appling coars	e sandy loam, ur	ndulating phase		NWI classifi	cation: None			
Are climatic / hydrologic conditions	on the site typica	al for this time of year? Y	res No	(If no, explain in I	Remarks.)			
Are Vegetation, Soil	, or Hydrology _	significantly distur	bed? Are "Normal	Circumstances"	present? Yes No			
Are Vegetation, Soil								
SUMMARY OF FINDINGS								
Hydrophytic Vegetation Present?	Ves <b>t</b>	/ No						
Hydric Soil Present?	Yes •	No	Is the Sampled Area					
Wetland Hydrology Present?		No	within a Wetland?	Yes	No			
Remarks:								
HYDROLOGY								
Wetland Hydrology Indicators:				Secondary Indic	ators (minimum of two required)			
Primary Indicators (minimum of or	ne is required; ch	eck all that apply)		Surface Soi	, ,			
Surface Water (A1)		True Aquatic Plants (			egetated Concave Surface (B8)			
High Water Table (A2)	or (C1)	✓ Drainage Pa						
Saturation (A3)		Oxidized Rhizospher		Moss Trim I	` '			
Water Marks (B1)	-	Presence of Reduced			Water Table (C2)			
Sediment Deposits (B2)	_	Recent Iron Reductio		Crayfish Bu	` '			
Drift Deposits (B3)	<del>-</del>	Thin Muck Surface (C			/isible on Aerial Imagery (C9)			
Algal Mat or Crust (B4) Iron Deposits (B5)	_	Other (Explain in Rer	narks)	· <del></del>	Stressed Plants (D1) c Position (D2)			
Inundation Visible on Aerial Ir	magery (B7)				` '			
Water-Stained Leaves (B9)	nagory (Dr)			Shallow Aquitard (D3) Microtopographic Relief (D4)				
Aquatic Fauna (B13)				✓ FAC-Neutra				
Field Observations:				<u> </u>	( )			
Surface Water Present? Yes	es No	Depth (inches):						
			0					
		Depth (inches):	0 Wetland H	lydrology Prese	nt? Yes V No			
(includes capillary fringe)								
Describe Recorded Data (stream	gauge, monitorin	ig weii, aeriai priotos, pre	vious irispections), ii ava	mable:				
Remarks:								
Wetland hydrology indicators prese	ent							

Sampling	Point: wnoc101f_	w
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20	Absolute	Dominant I		Dominance Test worksheet:			
Tree Stratum (Plot size:)		Species?	Status	Number of Dominant Species			
1. Liquidambar styraciflua	20	Yes	FAC	That Are OBL, FACW, or FAC:6 (A)			
2. Acer rubrum	15	Yes	FAC	Total New Long ( Device of			
3. Magnolia virginiana	10	Yes	FACW	Total Number of Dominant Species Across All Strata: 7 (B)			
4				Operics / toross / till othata.			
4				Percent of Dominant Species			
5				That Are OBL, FACW, or FAC: 85.71428571 (A/B)			
6				Prevalence Index worksheet:			
7							
		= Total Cove		Total % Cover of: Multiply by:  OBL species 15 x 1 = 15			
50% of total cover: 22.5	20% of	total cover:_	9	ODL species			
Sapling/Shrub Stratum (Plot size: 15				FACW species x 2 =			
1 Clethra alnifolia	40	Yes	FAC	FAC species100			
2. Lindera benzoin	20	Yes	FAC	FACU species15 x 4 =60			
3. Rosa carolina	5	No	FACU	UPL species 0 x 5 = 0			
3. Nosa carolina			1700	145 405			
4				Column Totals: (A) 403 (B)			
5				Prevalence Index = B/A = 2.79			
6				Trevalence mack = B/TC =			
				Hydrophytic Vegetation Indicators:			
				1 - Rapid Test for Hydrophytic Vegetation			
8				2 - Dominance Test is >50%			
9				3 - Prevalence Index is ≤3.0¹			
	65	= Total Cove		4 - Morphological Adaptations <sup>1</sup> (Provide supporting			
50% of total cover: <u>32.5</u>	20% of	total cover:_	13				
Herb Stratum (Plot size:)				data in Remarks or on a separate sheet)			
1 Smilax glauca	10	Yes	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
2 Osmunda spectabilis	10	Yes	OBL				
3. Carex lupulina	5	No	OBL	<ul> <li>Indicators of hydric soil and wetland hydrology must</li> <li>be present, unless disturbed or problematic.</li> </ul>			
		No	FAC				
A DIOSCOREA VIIIOSA	ວ		FAL,				
4. Dioscorea villosa				Definitions of Four Vegetation Strata:			
5. Osmundastrum cinnamomeum	5	No	FACW				
**				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or			
5. Osmundastrum cinnamomeum 6.				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of			
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5. Osmundastrum cinnamomeum 6. 7. 8.				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less			
5. Osmundastrum cinnamomeum 6. 7. 8. 9.				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1			
5. Osmundastrum cinnamomeum 6. 7. 8.				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less			
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5. Osmundastrum cinnamomeum 6.	35		FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1			
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5. Osmundastrum cinnamomeum 6.	35 20% of	No N	FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in			
5. Osmundastrum cinnamomeum 6.	35 20% of	No N	FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in			
5. Osmundastrum cinnamomeum 6.	35	No N	FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in height.			
5. Osmundastrum cinnamomeum 6.	35	No N	FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in height.			
5. Osmundastrum cinnamomeum 6		No N	FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in height.			
5. Osmundastrum cinnamomeum 6.	35 20% of	No N	FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation			
5. Osmundastrum cinnamomeum 6	35 20% of 20% of 20% of	No N		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation			
5. Osmundastrum cinnamomeum 6.	35 20% of 20% of 20% of	No N		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation			
5. Osmundastrum cinnamomeum 6	35 20% of 20% of 20% of	No N		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation			
5. Osmundastrum cinnamomeum 6	35 20% of 20% of 20% of	No N		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation			
5. Osmundastrum cinnamomeum 6	35 20% of 20% of 20% of	No N		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation			
5. Osmundastrum cinnamomeum 6	35 20% of 20% of 20% of	No N		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation			
5. Osmundastrum cinnamomeum 6	35 20% of 20% of 20% of	No N		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation			
5. Osmundastrum cinnamomeum 6	35 20% of 20% of 20% of	No N		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation			
5. Osmundastrum cinnamomeum 6	35 20% of 20% of 20% of	No N		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation			

Profile Desc	cription: (Describe t	o the de	oth needed to docun	nent the i	ndicator	or confirm	the absence	e of indicators.)
Depth	Matrix		Redox	K Feature:				
(inches)	Color (moist) 10 YR 5/2	<u>%</u>	Color (moist) 10 YR 3/6	<u>%</u> 5	Type <sup>1</sup> C	Loc <sup>2</sup> PL/M	<u>Texture</u> LS	Remarks
0-16	10 1R 5/2	95	10 1R 3/0			PL/IVI		
						·		
					-			
	-					· ——	-	
					'			
1Typo: C-C	oncontration D-Donle	otion PM	=Reduced Matrix, MS		1 Sand Gr	oine	<sup>2</sup> Location: E	PL=Pore Lining, M=Matrix.
Hydric Soil		euon, Riv	i=Reduced Matrix, MS	=iviaskec	Sand Gr	airis.		ators for Problematic Hydric Soils <sup>3</sup> :
-			Dork Surface	(87)				2 cm Muck (A10) (MLRA 147)
Histosol	oipedon (A2)		Dark Surface Polyvalue Be		co (S8) <b>(N</b>	/II DΛ 1/17	· · · · · · · · · · · · · · · · · · ·	Coast Prairie Redox (A16)
	stic (A3)		Thin Dark Su				1 <del>7</del> 0) (	(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye			· <del>·</del> · · · · · · · · · · · · · · · · ·		Piedmont Floodplain Soils (F19)
	d Layers (A5)		<u>✓</u> Depleted Mat		1 2)		'	(MLRA 136, 147)
	uck (A10) (LRR N)		Redox Dark S		-6)		\	/ery Shallow Dark Surface (TF12)
	d Below Dark Surface	(A11)	Depleted Dar	,	,			Other (Explain in Remarks)
	ark Surface (A12)	` ,	Redox Depre					,
	Mucky Mineral (S1) (L	RR N,	Iron-Mangane			LRR N,		
	A 147, 148)		MLRA 136					
Sandy G	Bleyed Matrix (S4)		Umbric Surfa	ce (F13) (	(MLRA 13	36, 122)	<sup>3</sup> Inc	dicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					etland hydrology must be present,
	l Matrix (S6)		Red Parent M	1aterial (F	21) <b>(MLR</b>	A 127, 147	<b>')</b> ur	nless disturbed or problematic.
Restrictive	Layer (if observed):							
Type:								
Depth (in	ches):						Hydric Soi	I Present? Yes <u>✓</u> No
Remarks:							1	
Hydric soil pre	esent							



Photo 1
Wetland data point WNOC101f\_w facing northeast



Photo 2
Wetland data point WNOC101f\_w facing southwest

Project/Site: Atlantic Coast Pipeline	C	City/County: Nottoway County Sampling I					
Applicant/Owner: DOMINION			State: VA	A Sampling Point: wnoc101_u			
Investigator(s): Team C Section, Township, Range: No PLSS in this area							
Landform (hillslope, terrace, etc.): Slight slop		Slope (%): <sup>5</sup>					
Subregion (LRR or MLRA): P	Lat: 37.12914066	Long: -77.93	567933	Datum: WGS 1984			
Soil Map Unit Name: Appling coarse sandy lo	tion: None						
Are climatic / hydrologic conditions on the site	e typical for this time of yea	r? Yes <u>'</u> No (If	no, explain in Rei	marks.)			
Are Vegetation, Soil, or Hydro	ology significantly d	listurbed? Are "Normal C	ircumstances" pre	esent? Yes No			
Are Vegetation, Soil, or Hydro							
SUMMARY OF FINDINGS – Attacl							
Hydrophytic Vogotation Procent?	os No V						
	es No	Is the Sampled Area		🗸			
	es No	within a Wetland?	Yes	_ No			
Remarks:							
HYDROLOGY							
Wetland Hydrology Indicators:		<u> </u>	econdary Indicato	ors (minimum of two required)			
Primary Indicators (minimum of one is requi	red; check all that apply)		Surface Soil Cracks (B6)				
Surface Water (A1)	True Aquatic Pla	nts (B14)	Sparsely Vegetated Concave Surface (B8)				
High Water Table (A2)	Hydrogen Sulfide		Drainage Patterns (B10)				
Saturation (A3)	Oxidized Rhizos	pheres on Living Roots (C3)					
Water Marks (B1)	Presence of Red	luced Iron (C4)					
Sediment Deposits (B2)	Recent Iron Red	uction in Tilled Soils (C6)	Crayfish Burrows (C8)				
Drift Deposits (B3)	Thin Muck Surfa		Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	Other (Explain in	Remarks)	Stunted or Stressed Plants (D1)				
Iron Deposits (B5)		_	Geomorphic Position (D2)				
Inundation Visible on Aerial Imagery (B	7)	_	Shallow Aquitard (D3)				
Water-Stained Leaves (B9)		_	<pre> Microtopographic Relief (D4) FAC-Neutral Test (D5)</pre>				
Aquatic Fauna (B13)			FAC-Neutral I	est (D5)			
Field Observations:	N <b>V</b> 5 4 6 1 3						
	No Depth (inches):						
	No Depth (inches):						
Saturation Present? Yes (includes capillary fringe)	No Depth (inches):	Wetland Hy	drology Present	? Yes No			
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos	, previous inspections), if availa	ıble:				
Demode							
Remarks:  No wetland hydrology indicators present							
No wettand flydrology indicators present							

Sampling	Point: wnoc101_	u
Sambilliu	Pulli, """-	

20	Absolute	Dominant I		Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover 70	Species?	Status FAC	Number of Dominant Species
1. Pinus taeda		Yes		That Are OBL, FACW, or FAC:2 (A)
2. Quercus alba	20	Yes	FACU	Total Number of Deminent
3				Total Number of Dominant Species Across All Strata: 4 (B)
Δ				Species / terese / till etitata.
				Percent of Dominant Species
5				That Are OBL, FACW, or FAC:50 (A/B)
6				Prevalence Index worksheet:
7				
	90	= Total Cove		Total % Cover of: Multiply by:
50% of total cover: 45	20% of	total cover:_	18	ODL species
Sapling/Shrub Stratum (Plot size: 15				FACW species x 2 =
1 Liquidambar styraciflua	10	Yes	FAC	FAC species80 x 3 =240
2. Quercus alba	5	Yes	FACU	FACU species 25 x 4 = 100
				UPL species0 x 5 =0
3				105 340
4				Column Totals: (A) (B)
5				Prevalence Index = B/A = 3.23
6				Trevalence mack = B/TC =
				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>
		= Total Cove		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover: 7.5	20% of	total cover:_	3	
Herb Stratum (Plot size:5				data in Remarks or on a separate sheet)
1				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3				be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				Johnson Common Character
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
				more in diameter at breast height (DBH), regardless of
7				height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11.				Harb All barbaccas (non woods) plants regardless
	0 .	= Total Cove		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 0		total cover:	_	or orze, and woody plante look than orze it tall.
	20 /0 01	total cover		Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size:)				height.
1				
2				
3				
4				
5.				Hydrophytic
J	0 :	<del></del>		Vegetation Present? Yes No
50% of total cover: 0		= Total Cove	er O	100 100
30 % of total cover		total cover:_		
Remarks: (Include photo numbers here or on a separate s	heet.)			

Profile Desc	ription: (Describe to	o the depth	needed to documer	nt the indicator	or confirm	the abse	ence of indicators.)
Depth	Matrix		Redox F	eatures			
(inches)	Color (moist)	%	Color (moist)	% Type <sup>1</sup>	Loc <sup>2</sup>	Textur	re Remarks
0-18	2.5 Y 6/4	100				SL	
<del></del>							
<sup>1</sup> Type: C=Co	oncentration, D=Deple	etion, RM=Re	educed Matrix, MS=N	Masked Sand Gra	ins.		n: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:					Ir	ndicators for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Dark Surface (S	7)			2 cm Muck (A10) (MLRA 147)
	pipedon (A2)			, Surface (S8) <b>(N</b>	LRA 147.		Coast Prairie Redox (A16)
Black Hi	. , ,			ce (S9) (MLRA 1		, –	(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleyed N		,,		Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Matrix				(MLRA 136, 147)
	ick (A10) <b>(LRR N)</b>		Redox Dark Sur				Very Shallow Dark Surface (TF12)
	d Below Dark Surface	(A11)	Depleted Dark S			_	Other (Explain in Remarks)
	ark Surface (A12)	(****)	Redox Depressi			_	
	lucky Mineral (S1) <b>(L</b> l	RR N.	Iron-Manganese		RR N.		
	\ 147, 148)	,	MLRA 136)	· · · · · · · · · · · · · · · · · · ·			
	Gleyed Matrix (S4)		Umbric Surface	(F13) <b>(MI RA 13</b>	6. 122)		<sup>3</sup> Indicators of hydrophytic vegetation and
	ledox (S5)		Piedmont Flood			8)	wetland hydrology must be present,
	Matrix (S6)			erial (F21) <b>(MLR</b> .			unless disturbed or problematic.
	_ayer (if observed):		Red r archi wat	char (1 2 1) (MEIC	127, 177	<del>,</del>	unicss disturbed of problematic.
	Layer (ii observeu).						
Type:			_				
Depth (ind	ches):		_			Hydric	Soil Present? Yes No
Remarks:						•	
No hydric soil	indicators present						



Photo 1
Upland data point WNOC101\_u facing southwest



Photo 2
Upland data point WNOC101\_u facing southeast

Project/Site: SERP	City/County:	Jour 7	Sampling Date: 08/28/26
Applicant/Owner: DOMINION			Sampling Point: WNONS Z
Investigator(s): 5. SWEITLER	Section, Township, Ran		Camping Font.
Landform (hillslope, terrace, etc.): Divrijion	Local relief (concave, conv	0	Slope (%): 0-1
Subregion (LRR or MLRA): LRLP Lat: 37,17	5436667	77. 93052245	9 Datum: NAD 1933
Soil Map Unit Name: MITHER ALLVIAL LAN			
Are climatic / hydrologic conditions on the site typical for this time of		NWI classificat	
		(If no, explain in Rer	
Are Vegetation, Soil, or Hydrology signification, Soil, or Hydrology naturally		Normal Circumstances" pre	
Are vegetation, soil, or rightnoingy naturally	problematic? (If nee	eded, explain any answers	in Remarks.)
SUMMARY OF FINDINGS – Attach site map show	ing sampling point lo	cations, transects,	important features, etc.
Hydrophytic Vegetation Present? Yes V			
Hydric Soil Present? Yes No	Is the Sampled within a Wetland		No
Wetland Hydrology Present? Yes No		u: 163	. 140
Domarkas	SCION AT GAS	VE 25 2 51 51	iei aci 3
	75 75 75 970	12 012 2 300,2	er Acc s
CRITECIA MICT.			
PHOTOS 100-0757 TO 0261			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicato	rs (minimum of two required)
Primary Indicators (minimum of one is required; check all that app	oly)	Surface Soil Cr	
BARK!	c Plants (B14)		tated Concave Surface (B8)
	Sulfide Odor (C1)	Drainage Patte	
	nizospheres on Living Roots		
	f Reduced Iron (C4)	Dry-Season W	
	Reduction in Tilled Soils (C		
	Surface (C7)		ole on Aerial Imagery (C9)
	ain in Remarks)		ssed Plants (D1)
Iron Deposits (B5)	,	Geomorphic Po	
Inundation Visible on Aerial Imagery (B7)		Shallow Aquita	, ,
Water-Stained Leaves (B9)		Microtopograph	1
Aquatic Fauna (B13)		FAC-Neutral Te	
Field Observations:			561 (26)
Surface Water Present? Yes No Depth (incl	nes).		* .
Water Table Present? Yes No Depth (incl			
Saturation Present? Yes V No Depth (incl	,	and Hydrology Present?	Van 1/ Na
(includes capillary fringe)			Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial pl	notos, previous inspections),	if available:	
NA			
Remarks:			
HYDROLOUY CALTERIA METI			
w to the second	,	W .	
		* .	,
			, r, (
<b>,</b>			
I			

20 17	Absolute		Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 17  1. LI QUIDAM PAR STYRAUTHUA	% Cover . / <i>U</i>	Species?	FAL	Number of Dominant Species That Are OBL, FACW, or FAC: 7 (A)
2. MALNOVIA VIRVINIANA	5	7	FACW	Total Number of Dominant 7
34.				Species Across All Strata: (B)
5				Percent of Dominant Species /OC That Are OBL, FACW, or FAC: (A/B)
6				
	_5	= Total Co	ver	Prevalence Index worksheet:
50% of total cover:8	20% of	f total cove	r: <b>3</b>	Total % Cover of: Multiply by:
Sapling Stratum (Plot size: /፲ //z				OBL species x1=
1. NY(JA BIKIONA	40	7	FALW	FACW species x 2 =
2. MALNO CLA VIZVENIANA	4° 2°	4	FAW	FAC species x 3 =
3.				FACU species x 4 =
4.				UPL species x 5 =
5.				Column Totals: (A) (B)
6				Prevalence Index = B/A =
	60	= Total Co	ver	Hydrophytic Vegetation Indicators:
50% of total cover: 30	20% of	f total cove	r: /\	1 - Rapid Test for Hydrophytic Vegetation
15/10				2 - Dominance Test is >50%
1. ILEX VILLTEURITA	40	Y	FALW	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. LYONIA LIGUTRINA	20	Ţ	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. VAUENTUM BURY MBDSUM	10	N	FALL	data in Remarks or on a separate sheet)
4				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5				
6				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
0	70	= Total Co	ver	be present, unless disturbed or problematic.
50% of total cover: _ <b>35</b>				Definitions of Five Vegetation Strata:
	20% o	t total cove	r:	Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5"n")				approximately 20 ft (6 m) or more in height and 3 in.
1. NA				(7.6 cm) or larger in diameter at breast height (DBH).
2.				Sapling – Woody plants, excluding woody vines,
3				approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
4	<del></del>			
5				Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
6				Harb All borbonous (non woods) plants including
8.		•		Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
9.				plants, except woody vines, less than approximately 3 ft (1 m) in height.
10				
11				Woody vine – All woody vines, regardless of height.
	***************************************	= Total Co	ver .	Sanday to the warden of the control of the sand of the
50% of total cover:	20% o	f total cove	r:	
Woody Vine Stratum (Plot size: 30 12 )				·
1. <i>N</i> A			-	
2				
3				
4				
5				Understade
	11 V	= Total Co	ver	Hydrophytic Vegetation
50% of total cover:				Present? Yes No
Remarks: (Include photo numbers here or on a separate s				
1/4.4.4	-	Tere		
1 (A(A)) (A(A))	NANUL	1 IUST		

		to the de				or confirm	n the absence of indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Features %	Type <sup>1</sup>	Loc <sup>2</sup>	Touture
0-14	10 YR 3/1	9B	7.5 1× 1/6	7	Type		Texture Remarks
14-20	10 YR 5/1	100	110			PC	Muchy Mineral
112	10 12 311		-				sanote loam
	· · · · · · · · · · · · · · · · · · ·						
	-						
¹Type: C=Co	oncentration, D=Dep	letion. RM:	=Reduced Matrix, MS	S=Masked	Sand Gra	ine	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil I	Indicators:		Treation matrix, me	Mached	ouria Ora	1113.	Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface	(S7)			2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be	low Surface	e (S8) <b>(M</b> I	_RA 147,	148) Coast Prairie Redox (A16)
Black Hi	stic (A3) n Sulfide (A4)		Thin Dark Su			17, 148)	(MLRA 147, 148) <sup>©</sup>
	Layers (A5)		Loamy Gleye Depleted Mat		2)		Piedmont Floodplain Soils (F19)
2 cm Mu	ck (A10) (LRR N)		Redox Dark S		s) .		(MLRA 136, 147) Very Shallow Dark Surface (TF12)
	Below Dark Surface	e (A11)	Depleted Dar				Other (Explain in Remarks)
	ark Surface (A12) lucky Mineral (S1) <b>(L</b>	DD N	Redox Depre				
	147, 148)	-KK N,	iron-Mangane MLRA 136		s (F12) <b>(L</b>	RR N,	*
Sandy G	leyed Matrix (S4)		Umbric Surfa		ILRA 136	, 122)	<sup>3</sup> Indicators of hydrophytic vegetation and
	edox (S5)		Piedmont Flo	odplain Soi	ils (F19) <b>(</b>	MLRA 14	<ol><li>wetland hydrology must be present,</li></ol>
	Matrix (S6) ayer (if observed):		Red Parent M	laterial (F2	1) (MLRA	127, 147	) unless disturbed or problematic.
Type:							
	thes): NA						Hydric Soil Present? Yes No
Remarks:	1						Tryunc Son Fresent? Tes V No
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							Sestern Mountain



Wetland data point wnok023f\_w facing North



Wetland data point wnok023f\_w facing South



Wetland data point wnok023f\_w soil sample

Project/Site:	City/County:	TOWAY.	Sampling Date: 08/28/2019
Applicant/Owner:Ouncillo	onyrodding.	State: VA	Sampling Date: 10 5 (24)
Investigator(s):	Section, Township, R	Otato	Sampling Point: WN040と
Landform (hillslope, terrace, etc.): Htu stork		nvex, none): _ Volv &	1=(1-)
	27 17 57610011		
Soil Map Unit Name: MISED ALLVERY			
Are climatic / hydrologic conditions on the site typical		NWI classific	
Are Vegetation, Soil, or Hydrology		(If no, explain in R	
Are Vegetation Soil, or Hydrology			present? Yes No
Are Vegetation, Soil, or Hydrology	naturally problematic? (If n	eeded, explain any answe	rs in Remarks.)
SUMMARY OF FINDINGS – Attach site	nap showing sampling point	ocations, transects	, important features, etc.
			, , , , , , , , , , , , , , , , , , , ,
Hydric Soil Present? Yes	- Is the Sample		
Wetland Hydrology Present? Yes		nd? Yes	_ No
Remarks:			
POINT E STABLESHED	ON HELLSLOPE LE	ADJNL TO WICH	etlang.
200			
PARTIC 100-0762 TO 0766			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicat	ore (relative file
Primary Indicators (minimum of one is required; chec	k all that apply)		ors (minimum of two required)
Surface Water (A1)	True Aquatic Plants (B14)		
High Water Table (A2)	Hydrogen Sulfide Odor (C1)		etated Concave Surface (B8)
Saturation (A3)	Oxidized Rhizospheres on Living Root	Drainage Patt	
Water Marks (B1)	Presence of Reduced Iron (C4)		
Sediment Deposits (B2)	Recent Iron Reduction in Tilled Soils (	Dry-Season V	, ,
Drift Deposits (B3)	Thin Muck Surface (C7)		
Algai Mat or Crust (B4)	Other (Explain in Remarks)		ible on Aerial Imagery (C9)
Iron Deposits (B5)	(Express in Promarks)		essed Plants (D1)
Inundation Visible on Aerial Imagery (B7)		Geomorphic F	
Water-Stained Leaves (B9)		Shallow Aquita	
Aquatic Fauna (B13)	' * <sub>a</sub>	Microtopograp	
Field Observations:		FAC-Neutral T	est (D5)
Surface Water Present? Yes No //	Depth (inches): NA		•
	Depth (inches):		
(includes capillary fringe)		land Hydrology Present	? Yes No
Describe Recorded Data (stream gauge, monitoring v	vell, aerial photos, previous inspections)	, if available:	
Remarks:			* *
	1 state of the same		
No INOT CAPORS OF	WETLAND BY DOLOLY.	. *	• ,
		*	
			1
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EGETATION (Five Strata) – Use scientific nar	Absolute	Dominant	Indicator	Sampling Point: WUVH 0.7  Dominance Test worksheet:
Tree Stratum (Plot size: 30'K)		Species?	Status	Number of Deminent Constant
1. QuERCU) ALBA	70	_7	FACU	Number of Dominant Species That Are OBL, FACW, or FAC:  (A)
2. QUERUS FALCATA	20	_7	FACU	
3. LIKTO DEN BRON TUIT PIFFERA	10	$\sim$	FAW	Total Number of Dominant Species Across All Strata:
4				Species Across All Strata: (B)
5			<del></del> -	Percent of Dominant Species That Are OBL FACW or FAC:
6				That Are OBL, FACW, or FAC: (A/B)
	100	= Total Cov		Prevalence Index worksheet:
				Total % Cover of: Multiply by:
50% of total cover:	_ 20% of	total cover:		OBL species x 1 =
	2~			FACW species x 2 =
	30		FAC	
QUERLU) RUBRA	10	$\sim$	FACU	
B. CARYA CORDIPORMES	10	N	FACU	FACU species x 4 =
NYLLA SYLVATILA	10	N	FAC	UPL species x 5 =
				Column Totals: (A) (B)
				Prevalence Index = B/A =
<del>.</del>	60 =	Total Cove	er .	Hydrophytic Vegetation Indicators:
50% of total cover: 30	_	total cover:		
Shrub Stratum (Plot size: 15'7)	_ 20% of 1	total cover:_		1 - Rapid Test for Hydrophytic Vegetation
TACELLO TO SIZE:				1/2 - Dominance Test is >50%
	<u> </u>			3 - Prevalence Index is ≤3.0 <sup>1</sup>
LIQUIDAMBAR STYRACFULA	20		FAC	4 - Morphological Adaptations1 (Provide supporting
B. NYJSA SYLVATICA	20		FAC	data in Remarks or on a separate sheet)
4				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
ō				
6				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
	40 =	= Total Cove	er e	be present, unless disturbed or problematic.
50% of total cover: 20	000/ -5	total cover:		Definitions of Five Vegetation Strata:
	_ 20% 01	total cover:		Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 1/2 )				approximately 20 ft (6 m) or more in height and 3 in.
				(7.6 cm) or larger in diameter at breast height (DBH).
3				Sapling – Woody plants, excluding woody vines,
3				approximately 20 ft (6 m) or more in height and less
1				than 3 in. (7.6 cm) DBH.
5				Shrub – Woody plants, excluding woody vines,
3				approximately 3 to 20 ft (1 to 6 m) in height.
7				Herb – All herbaceous (non-woody) plants, including
8				herbaceous vines, regardless of size, and woody
9				plants, except woody vines, less than approximately 3
10				ft (1 m) in height.
				Woody vine - All woody vines, regardless of height.
11				
		= Total Cov		
50% of total cover:	_ 20% of	total cover:		
701.				
				· ·
Woody Vine Stratum (Plot size: <u>30 (</u> ) 1. ルウ 2.				

= Total Cover

20% of total cover:

VELLOPATION

50% of total cover: \_

DOMINA NE

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

PAILES

Hydrophytic Vegetation Present?

1		to the dept	h needed to docume		ator or confirm	the absence	ce of indicators.)	
Depth (inches)	Matrix Color (moist)	%	Color (moist)	Features %Ty	pe <sup>1</sup> Loc <sup>2</sup>	Texture	Rema	rks
0-20	10 4R 5/4	100					SANDY LOAK	
		-		· · · ·				
		<del> </del>		<del></del>	<del> </del>			
		<del></del> , :					*	-
								·
							-	<u> </u>
							-	,
				<u> </u>				· v
<sup>1</sup> Type: C=C	Concentration, D=Dep	 pletion, RM=	Reduced Matrix, MS=	Masked San	d Grains.	<sup>2</sup> Location:	PL=Pore Lining, M=Ma	trix.
	Indicators:					Indi	cators for Problematic	C Hydric Soils <sup>3</sup> :
Histoso			Dark Surface (S				2 cm Muck (A10) (MLF	
	pipedon (A2)		Polyvalue Belov			148)	Coast Prairie Redox (A	.16)
	listic (A3) en Sulfide (A4)		Thin Dark Surfa Loamy Gleyed		KA 147, 148)		(MLRA 147, 148) Piedmont Floodplain S	oile (E10)
	d Layers (A5)		Depleted Matrix				(MLRA 136, 147)	óua (⊏1a)
2 cm M	uck (A10) (LRR N)		Redox Dark Su	rface (F6)			Very Shallow Dark Sur	face (TF12)
	d Below Dark Surfac	e (A11)	Depleted Dark				Other (Explain in Rema	arks)
	ark Surface (A12) Mucky Mineral (S1) (	I DD N	Redox Depress Iron-Manganes	. ,	10) // DD N			
	A 147, 148)	LIXIX IV,	MLRA 136)	e Masses (F	(2) (LKK N,			
	Gleyed Matrix (S4)		Umbric Surface	(F13) (MLR	A 136, 122)	³Ir	ndicators of hydrophytic	vegetation and
	Redox (S5)		Piedmont Flood	plain Soils (	F19) (MLRA 14	8) v	vetland hydrology must	be present,
	d Matrix (S6)  Layer (if observed)		Red Parent Mat	erial (F21) (	MLRA 127, 147	) u	nless disturbed or prob	lematic.
Type:								
	iches): VA					Hydric So	il Present? Yes	No V
Remarks:						Tiyune 30	in riesent: Tes	140
,	Josep 02	ITELIA	NOT MED					
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	TW.							
	SUCTION				DATA	15001	10	
SPE	2 THEICH	$\mathcal{S}_{\mathcal{N}}$	MWHOZ	5 H-W	UMA	FOR	٠	
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Upland data point wnok023\_u facing Northwest



Upland data point wnok023\_u facing Southeast



Upland data point wnok023\_u soil sample

Project/Site: Southeast Reliability Project	City/County: NA/Nottoway Sampling Date: 8/29/2014
Applicant/Owner: Dominion Transmission	State: VA Sampling Point: wnok025f_v
Investigator(s): J. Sweitzer, S. Grove, E. Bubb	Section, Township, Range: NA
9	ocal relief (concave, convex, none): concave Slope (%): 5
Subregion (LRR or MLRA): LRR P Lat: 37.124350	
Soil Map Unit Name: Appling coarse sandy loam, undulating	phaseNWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time of ye	
	v disturbed? Are "Normal Circumstances" present? Yes V No
Are Vegetation , Soil , or Hydrology naturally pr	,
<u> </u>	
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	Is the Sampled Area within a Wetland? Yes No No
Hydric Soil Present?  Wetland Hydrology Present?  Yes No	within a wedding? Yes No
Wetland Hydrology Present? Yes No Remarks:	·
Small wetland on terrace on floodplain associated with	margins and low-lying areas of stream SNOK030b and
SNOK031. Use wnok024_u upland plot for this wetland	
Photos: 2469 through 2473 (soil, N, E, S, W)	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) True Aquatic F	<u> </u>
High Water Table (A2)  Hydrogen Sulf	•
<u> </u>	ospheres on Living Roots (C3) Moss Trim Lines (B16)
l <del></del>	educed Iron (C4)  Dry-Season Water Table (C2)  Crystian Durrous (C9)
Sediment Deposits (B2)  Drift Deposits (B3)  Recent Iron Re Thin Muck Sur	eduction in Tilled Soils (C6)
Algal Mat or Crust (B4)  Other (Explain	
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches	s):
Water Table Present? Yes No Depth (inches	
Saturation Present? Yes No Depth (inches	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial phot	os, previous inspections), il avaliable:
NA	
Remarks:	

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

20 #	Absolute	Dominant		Dominance Test worksheet:	
Tree Stratum (Plot size: 30 ft )		Species?		Number of Dominant Species	
1. Acer rubrum	10	<u>N</u>	FAC	That Are OBL, FACW, or FAC: 11 (A	۹)
<sub>2.</sub> Pinus taeda	40	<u>Y</u>	FAC	Total Number of Dominant	
3. Liquidambar styraciflua	20	<u>N</u>	FAC	Species Across All Strata: 12 (E	В)
4. Liriodenderon tulipifera	10	N	FACU		
<sub>5.</sub> Quercus rubra	30	Υ	FACU	Percent of Dominant Species That Are OBL, FACW, or FAC: 92 (A	4/B)
6.				macras obe, the w, sithe.	10)
	110	= Total Cov	er	Prevalence Index worksheet:	
500% of total across 55	20% of			Total % Cover of: Multiply by:	
50% of total cover: <u>55</u>	20% 01	total cover		OBL species x 1 =	
Sapling Stratum (Plot size: 15 ft )	20	V	FAC	FACW species x 2 =	
1. Carpinus caroliniana	20	· <del>Y</del>		FAC species x 3 =	
2. Pinus taeda	30		FAC	FACU species x 4 =	
3. Liriodenderon tulipifera	10	<u>N</u>	FACU	UPL species x 5 =	
4				Column Totals: (A)	(B)
5				Column rotals.	(5)
6				Prevalence Index = B/A =	
	60	= Total Cov	er er	Hydrophytic Vegetation Indicators:	
50% of total cover: <u>30</u>	20% of			1 - Rapid Test for Hydrophytic Vegetation	
	20% 01	total cover	<u></u>	2 - Dominance Test is >50%	
Shrub Stratum (Plot size: 15 ft)  1. Quercus phellos	10	Υ	FAC	3 - Prevalence Index is ≤3.0 <sup>1</sup>	
	10	· Y	FAC	4 - Morphological Adaptations <sup>1</sup> (Provide suppor	rting
2. Liquidambar styraciflua		· <del>Y</del>		data in Remarks or on a separate sheet)	rung
3. Carpinus caroliniana	10		FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
4. Vaccinium corymbosum	10	<u>Y</u>	FACW	Trossomatio rijuroprijuo rogotation (Espiani,	
5. Nyssa sylvatica	20	<u> </u>	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology mus	ct
6				be present, unless disturbed or problematic.	31
	60	= Total Cov	er er	Definitions of Five Vegetation Strata:	
50% of total cover: 30	20% of	total cover		_	
50% of total cover: 30  Herb Stratum (Plot size: 5 ft	20% of	total cover		Tree – Woody plants, excluding woody vines,	
Herb Stratum (Plot size: 5 ft )		total cover	12	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in	ı. <del>1</del> ).
Herb Stratum (Plot size: 5 ft)  1. Woodwardia areolata	40	Υ	:12 FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBH	ı. I).
Herb Stratum (Plot size: 5 ft  1. Woodwardia areolata 2. Athyrium asplenoides	40	<u>Y</u> <u>Y</u>	12 FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBH Sapling – Woody plants, excluding woody vines,	l).
Herb Stratum (Plot size: 5 ft)  1. Woodwardia areolata	40	<u>Y</u> <u>Y</u>	12 FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBH Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less	l).
Herb Stratum (Plot size: 5 ft  1. Woodwardia areolata 2. Athyrium asplenoides	40	<u>Y</u> <u>Y</u>	12 FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBH Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.	l).
Herb Stratum (Plot size: 5 ft )  1. Woodwardia areolata  2. Athyrium asplenoides  3.	40	<u>Y</u> <u>Y</u>	12 FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBH Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines,	l).
Herb Stratum (Plot size: 5 ft )  1. Woodwardia areolata  2. Athyrium asplenoides  3.	40	<u>Y</u> <u>Y</u>	12 FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBH Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.	l).
Herb Stratum (Plot size: 5 ft 1. Woodwardia areolata 2. Athyrium asplenoides 3. 4. 5.	40 10	<u>Y</u> <u>Y</u>	12 FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBH Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including	ł). S
Herb Stratum (Plot size: 5 ft 1. Woodwardia areolata 2. Athyrium asplenoides 3. 4. 5. 6.	40 10	<u>Y</u>	12 FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBH Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, includin herbaceous vines, regardless of size, and woody	i). S
Herb Stratum (Plot size: 5 ft )  1. Woodwardia areolata 2. Athyrium asplenoides 3	40 10	<u>Y</u>	12 FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBH Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, includin herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately	i). S
Herb Stratum (Plot size: 5 ft 1. Woodwardia areolata 2. Athyrium asplenoides 3. 4. 5. 6. 7. 8. 9.	40 10	<u>Y</u>	12 FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBH Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, includin herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately ft (1 m) in height.	i). s ng y 3
Herb Stratum (Plot size: 5 ft )  1. Woodwardia areolata 2. Athyrium asplenoides 3	40 10	<u>Y</u>	12 FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBH Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, includin herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately	i). s ng y 3
Herb Stratum (Plot size: 5 ft 1. Woodwardia areolata 2. Athyrium asplenoides 3. 4. 5. 6. 7. 8. 9. 10.	40 10	<u>Y</u>	FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBH Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, includin herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately ft (1 m) in height.	i). s ng y 3
Herb Stratum (Plot size: 5 ft )  1. Woodwardia areolata 2. Athyrium asplenoides 3. 4. 5. 6. 7. 8. 9. 10. 11.	<u>40</u> <u>10</u>	Y Y	FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBH Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, includin herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately ft (1 m) in height.	i). s ng y 3
Herb Stratum (Plot size: 5 ft 1. Woodwardia areolata 2. Athyrium asplenoides 3. 4. 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 25	<u>40</u> <u>10</u>	Y Y	FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBH Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, includin herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately ft (1 m) in height.	i). s ng y 3
Herb Stratum (Plot size: 5 ft 1. Woodwardia areolata 2. Athyrium asplenoides 3. 4. 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 25 Woody Vine Stratum (Plot size: 30 ft )	40 10 	= Total Cov	FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBH Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, includin herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately ft (1 m) in height.	i). s ng y 3
Herb Stratum (Plot size: 5 ft 1. Woodwardia areolata 2. Athyrium asplenoides 3. 4. 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 25 Woody Vine Stratum (Plot size: 30 ft 1. Smilax rotundifolia	40 10 	Y Y	FAC FAC FAC FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBH Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, includin herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately ft (1 m) in height.	i). s ng y 3
Herb Stratum (Plot size: 5 ft 1. Woodwardia areolata 2. Athyrium asplenoides 3. 4. 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 25 Woody Vine Stratum (Plot size: 30 ft )	40 10 	Y Y	FAC FAC FAC FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBH Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, includin herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately ft (1 m) in height.	i). s ng y 3
Herb Stratum (Plot size: 5 ft 1. Woodwardia areolata 2. Athyrium asplenoides 3. 4. 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 25 Woody Vine Stratum (Plot size: 30 ft 1. Smilax rotundifolia	40 10 50 20% of	= Total Cover	FAC FAC FAC FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBH Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, includin herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately ft (1 m) in height.	i). s ng y 3
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Herb Stratum (Plot size: 5 ft 1. Woodwardia areolata 2. Athyrium asplenoides 3. 4. 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 25 Woody Vine Stratum (Plot size: 30 ft 1. Smilax rotundifolia 2. 3. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	40 10 50 20% of	= Total Cover	FAC FAC FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBH Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, includin herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately ft (1 m) in height.  Woody vine – All woody vines, regardless of heigh	i). s ng y 3
Herb Stratum (Plot size: 5 ft 1. Woodwardia areolata 2. Athyrium asplenoides 3. 4. 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 25 Woody Vine Stratum (Plot size: 30 ft 1. Smilax rotundifolia 2. 3. 4. 5. 5. 5. 5. 6. 6. 7. 6. 6. 7. 7. 7. 8. 7.	50 20% of 5	= Total Cover	FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBH Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, includin herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately ft (1 m) in height.  Woody vine – All woody vines, regardless of heigh	i). s ng y 3
Herb Stratum (Plot size: 5 ft   1.   Woodwardia areolata   2.   Athyrium asplenoides   3.   4.   5.   6.     7.   8.   9.     10.     11.     50% of total cover: 25     30 ft   1.   Smilax rotundifolia   2.   3.   4.   5.     50% of total cover:	50 20% of 5	= Total Cover	FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBH Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, includin herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately ft (1 m) in height.  Woody vine – All woody vines, regardless of heigh	i). s ng y 3
Herb Stratum (Plot size: 5 ft 1. Woodwardia areolata 2. Athyrium asplenoides 3. 4. 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 25 Woody Vine Stratum (Plot size: 30 ft 1. Smilax rotundifolia 2. 3. 4. 5. 5. 5. 5. 6. 6. 7. 6. 6. 7. 7. 7. 8. 7.	50 20% of 5	= Total Cover	FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBH Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, includin herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately ft (1 m) in height.  Woody vine – All woody vines, regardless of heigh	i). s ng y 3

Sampling Point: wnok025f\_w

Profile Desc	cription: (Describe	to the dep	oth needed to docur	nent the	indicator	or confirm	the absence	e of indicators.)
Depth	Matrix			x Feature		1 - 2	<b>T</b>	Dame !
(inches) 0-3	Color (moist) 10 YR 5/3	100	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture SI/LM	Remarks
3-18	10 YR 6/1	90	10 YR 4/6	10	С	PL	SI/LM	fine sands
				-				
				-		· ——		
					· ——	· ——		
¹Type: C=C	oncentration D=Der	letion RM	=Reduced Matrix, MS		d Sand Gr	ains	<sup>2</sup> Location: F	PL=Pore Lining, M=Matrix.
Hydric Soil		JICTION, TTIVI	- Reduced Matrix, Mc	J-Wasko	a Sana Or	uiris.		ators for Problematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface	(S7)				2 cm Muck (A10) <b>(MLRA 147)</b>
	oipedon (A2)		Polyvalue Be		ace (S8) <b>(N</b>	/ILRA 147,		Coast Prairie Redox (A16)
	istic (A3)		Thin Dark Su			147, 148)	_	(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye		(F2)		<u> </u>	Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Mar		Fc)			(MLRA 136, 147)
	uck (A10) <b>(LRR N)</b> d Below Dark Surfac	·e (Δ11)	Redox Dark : Depleted Dar					/ery Shallow Dark Surface (TF12) Other (Explain in Remarks)
=	ark Surface (A12)	.0 (////)	Redox Depre				<u>,                                     </u>	Suioi (Explain in Nomarks)
	Mucky Mineral (S1) (	LRR N,	Iron-Mangan			LRR N,		
	A 147, 148)		MLRA 13					
	Gleyed Matrix (S4)		Umbric Surfa					dicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					etland hydrology must be present,
	l Matrix (S6) Layer (if observed)		Red Parent N	nateriai (i	-21) (IVILR	A 127, 147	/) ur	nless disturbed or problematic.
Type: N		•						
Depth (in							Hydric Soi	I Present? Yes V No No
Remarks:							Tiyano oo	100
Fi	ne sands/silt thr	oughout	wetland and upla	ınd soil	S.			



Wetland data point wnok025f\_w facing south



Wetland data point wnok024f\_w facing north



Wetland data point wnok025f\_w soil sample

# wnok024\_u also serves as upland point for wnok025f\_w

Project/Site: Southeast Reliability Project	City/County: NA/Nottoway Sampling Date: 8/29/2014
Applicant/Owner: Dominion Transmission	State: VA Sampling Point: wnok024_u
Investigator(s): J. Sweitzer, S. Grove, E. Bubb	Section, Township, Range: NA
•	cal relief (concave, convex, none): concave Slope (%): 15
Subregion (LRR or MLRA): LRR P Lat: _37.124088	Long: -77.930009 Datum: NAD1983
Soil Map Unit Name: Appling coarse sandy loam, undulating	phase NWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time of year	
Are Vegetation Soil , or Hydrology significantly	v disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation , Soil , or Hydrology naturally pro	oblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.
Hadaala fa Vaadafa Baaaa 2	
Hydrophytic Vegetation Present?  Hydric Soil Present?  Yes No V	Is the Sampled Area within a Wetland? Yes No
Wetland Hydrology Present?	within a wetiant:
Remarks:	•
	vetland areas (wnok024 and 025). Associated with hillslope
between streams SNOK030b and SNOK031.	retiand areas (whoke24 and 625). Associated with missispe
Photos: 2464 through 2468 (soil, N, E, S, W)	
LIVEROLOGY	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) True Aquatic P	<u> </u>
High Water Table (A2)  Hydrogen Sulfi	
1 <del></del>	ospheres on Living Roots (C3) Moss Trim Lines (B16) educed Iron (C4) Dry-Season Water Table (C2)
	eduction in Tilled Soils (C6) Crayfish Burrows (C8)
Drift Deposits (B3)  Thin Muck Suri	·
Algal Mat or Crust (B4)  Other (Explain	
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches	):
Water Table Present? Yes No Depth (inches	):
Saturation Present? Yes No Depth (inches	
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photo	oc. provious inspections) if availables
Describe Necorded Data (stream gauge, monitoring well, aerial prior	os, previous inspections), ii avaliable.
Remarks:	
Homano.	

#### VEGETATION (Five Strata) - Use scientific names of plants.

		p.a		
Tree Stratum (Plot size: 30 ft )		Dominant		Dominance Test worksheet:
		Species?		Number of Dominant Species
1. Acer rubrum	50	. <u>Y</u>	FAC	That Are OBL, FACW, or FAC: 7 (A)
2. Pinus taeda	10		FAC	Total Number of Dominant
3. Liquidambar styraciflua	15		FAC	Species Across All Strata: 10 (B)
4. Liriodenderon tulipifera	10		FACU	Species Across Air Strata.
·			17100	Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 70 (A/B)
6				
	85	= Total Cov	er	Prevalence Index worksheet:
40 F				Total % Cover of: Multiply by:
50% of total cover: 42.5	20% of	total cover	17	OBL species x 1 =
Sapling Stratum (Plot size: 15 ft )				
1. Acer rubrum	25	Υ	FAC	FACW species x 2 =
2. Pinus taeda	5		FAC	FAC species x 3 =
	5	-		FACU species x 4 =
3. Liquidambar styraciflua			FAC	UPL species x 5 =
4. Liriodendron tuliperfera	20	Υ	FACU	
5				Column Totals: (A) (B)
<u> </u>				Duranta and Index D/A
6. <u> </u>				Prevalence Index = B/A =
	55	= Total Cov	er	Hydrophytic Vegetation Indicators:
50% of total cover: <u>27.5</u>	20% of	total cover	.11	1 - Rapid Test for Hydrophytic Vegetation
·	20 /6 01	total cover	<del></del>	2 - Dominance Test is >50%
Shrub Stratum (Plot size: 15 ft				
1. Ilex opaca	2	<u> Y</u>	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Liquidambar styraciflua	2	Υ	FAC	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3 Carpinus caroliniana	1	Y	FAC	data in Remarks or on a separate sheet)
<u> </u>		· <del></del>		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
4				
5				1
6.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
	6	T-1-1-0		be present, unless disturbed or problematic.
	6	= Total Cov	er	Definitions of Five Vegetation Strata:
50% of total cover:				Definitions of Five Vegetation Strata:
				Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft )	20% of	total cover	<u> </u>	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
Herb Stratum (Plot size: 5 ft <sub>1.</sub> Liquidambar styraciflua	20% of	total cover	FACW	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft )  1. Liquidambar styraciflua  2. Chasmanthium	20% of 2	total covers	FACW FAC	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft <sub>1.</sub> Liquidambar styraciflua	20% of	total cover	FACW	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
Herb Stratum (Plot size: 5 ft  1. Liquidambar styraciflua  2. Chasmanthium  3. Athyrium asplenoides	20% of 2 2 2 2	total covers	FACW FAC	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft )  1. Liquidambar styraciflua  2. Chasmanthium	20% of 2 2 2 2	total covers	FACW FAC	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
Herb Stratum (Plot size: 5 ft  1. Liquidambar styraciflua  2. Chasmanthium  3. Athyrium asplenoides	20% of 2 2 2 2	total cover	FACW FAC	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft  1. Liquidambar styraciflua  2. Chasmanthium  3. Athyrium asplenoides	20% of 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Y Y Y	FACW FAC	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
Herb Stratum (Plot size: 5 ft  1. Liquidambar styraciflua  2. Chasmanthium  3. Athyrium asplenoides  4	20% of 2 2 2 2	Y Y Y	FACW FAC	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
Herb Stratum (Plot size: 5 ft )  1. Liquidambar styraciflua  2. Chasmanthium  3. Athyrium asplenoides  4	20% of 2 2 2 2 2	Y Y Y	FACW FAC	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft )  1. Liquidambar styraciflua 2. Chasmanthium 3. Athyrium asplenoides 4	20% of 2 2 2 2 2	Y Y Y	FACW FAC	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3
Herb Stratum (Plot size: 5 ft )  1. Liquidambar styraciflua 2. Chasmanthium 3. Athyrium asplenoides 4	20% of 2 2 2 2 2	Y Y Y	FACW FAC	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
Herb Stratum (Plot size: 5 ft )  1. Liquidambar styraciflua 2. Chasmanthium 3. Athyrium asplenoides 4	20% of 2 2 2 2 2	Y Y Y	FACW FAC	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft  1. Liquidambar styraciflua 2. Chasmanthium 3. Athyrium asplenoides 4	20% of 2 2 2 2 2	Y Y Y	FACW FAC	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3
Herb Stratum (Plot size: 5 ft )  1. Liquidambar styraciflua 2. Chasmanthium 3. Athyrium asplenoides 4	2 2 2 2 2	Y Y Y	FACW FAC FAC	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft  1. Liquidambar styraciflua 2. Chasmanthium 3. Athyrium asplenoides 4	2 2 2 2 2	Y Y Y	FACW FAC FAC	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
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Herb Stratum (Plot size: 5 ft 1. Liquidambar styraciflua 2. Chasmanthium 3. Athyrium asplenoides 4	2 2 2 2 2 6 6 6 2 20% of 2	Total covers	FACW FAC FAC	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
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Herb Stratum (Plot size: 5 ft 1. Liquidambar styraciflua 2. Chasmanthium 3. Athyrium asplenoides 4	20% of 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Total covers	FACW FAC FAC FAC	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.
Herb Stratum (Plot size: 5 ft 1. Liquidambar styraciflua 2. Chasmanthium 3. Athyrium asplenoides 4	2 2 2 2 2 6 6 6 2 20% of 2 2 6 6 7 20% of 2 7 2 6 7 2 7 2 7 2 7 2 7 2 7 2 7 2 7 2	Total covers	FACW FAC FAC FAC	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.
Herb Stratum (Plot size: 5 ft 1. Liquidambar styraciflua 2. Chasmanthium 3. Athyrium asplenoides 4	20% of 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	= Total Covers	FACW FAC FAC FAC FAC FAC FAC FAC	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.
Herb Stratum (Plot size: 5 ft)  1. Liquidambar styraciflua 2. Chasmanthium 3. Athyrium asplenoides 4	20% of 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	= Total Covers	FACW FAC FAC FAC FAC FAC FAC FAC	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.
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Sampling Point: wnok024\_u

Profile Desc	ription: (Describe	to the dep	th needed to docun	nent the in	dicator o	or confirm	the absence	of indicators.)
Depth	Matrix			x Features		. 2	<b>-</b>	
(inches)	Color (moist)	<u>%</u>	Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	<u>Remarks</u>
0-4	10 YR 2/2	95					LM	
4-11	10 YR 4/2	65					SA/LM	30% 10YR 2/2 matrix
11-17	10 YR 6/4	90					SA/LM	10% 10 YR 4/2 matrix
<sup>1</sup> Type: C=Co	oncentration, D=De	oletion. RM:	=Reduced Matrix, MS	=Masked	Sand Gra	ins.	<sup>2</sup> Location: P	PL=Pore Lining, M=Matrix.
Hydric Soil		5104.011/11111	Troudoud Mad My Mic	madita	04.14 0.16			ators for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Dark Surface	(S7)			□ 2	2 cm Muck (A10) <b>(MLRA 147)</b>
Histic Ep	pipedon (A2)		Polyvalue Be	low Surfac	e (S8) <b>(M</b>	LRA 147,		Coast Prairie Redox (A16)
Black Hi			Thin Dark Su			47, 148)	_	(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye		2)		<u> </u>	Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Mat		2)		$\Box$	(MLRA 136, 147) /ery Shallow Dark Surface (TF12)
	ick (A10) <b>(LRR N)</b> d Below Dark Surfac	re (Δ11)	Redox Dark S Depleted Dar					Other (Explain in Remarks)
_ :	ark Surface (A12)	50 (7111)	Redox Depre					Suiei (Explain in Nemarks)
	lucky Mineral (S1) (	LRR N,	Iron-Mangan			RR N,		
	A 147, 148)		MLRA 130					
	Gleyed Matrix (S4)		Umbric Surfa					dicators of hydrophytic vegetation and
	tedox (S5)		Piedmont Flo					etland hydrology must be present,
	Matrix (S6)  _ayer (if observed)		. Red Parent N	faterial (F2	(1) (MLR	4 127, 147	') un	nless disturbed or problematic.
Type: N		1:						
							Hydric Soil	Present? Yes No
Depth (inc	ines):		<del></del>				Hydric Soil	Present? Yes No
Remarks: Ve	ery fine sands/s	ilt through	out wetland and	upland s	soils.			
	-							



Upland data point wnok024\_u facing south



Upland data point wnok024f\_w facing North



Upland data point wnok024\_u soil sample

Project/Site: Southeast Reliability Project	City/County: NA/Nottoway Sampling Date: 8/29/2014
Applicant/Owner: Dominion Transmission	State: VA Sampling Point: wnok024f_v
Investigator(s): J. Sweitzer, S. Grove, E. Bubb	Section, Township, Range: NA
9 11	ocal relief (concave, convex, none): none Slope (%): 3
Subregion (LRR or MLRA): LRR P Lat: 37.124271	Long: -77.930283 Datum: NAD1983
Soil Map Unit Name: Appling coarse sandy loam, undulating	p phase NWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time of y	
	y disturbed? Are "Normal Circumstances" present? Yes V No
Are Vegetation , Soil , or Hydrology naturally pr	•
	, , ,
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.
Hudranhutia Vagatatian Pracant?	
Hydrophytic Vegetation Present?  Hydric Soil Present?  Yes No	Is the Sampled Area within a Wetland? Yes No No
Wetland Hydrology Present?	. Within a wettand: Tes No
Remarks:	•
Small headwater wetland on slight terrace of hillslope,	SNOK031 flows from complex and joins SNOK030a
omail neadwater wettand on slight terrace of milistope, t	on one of the state of the stat
Photos: 2458 through 2462 (soil, N, E, S, W)	
LIVEROLOGY	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) True Aquatic F	<u> </u>
High Water Table (A2)  Hydrogen Sulf	<u> </u>
<u> </u>	ospheres on Living Roots (C3) Moss Trim Lines (B16)
	educed Iron (C4)  Dry-Season Water Table (C2)  Cryufish Durrous (C9)
	eduction in Tilled Soils (C6)
☐ Drift Deposits (B3) ☐ Thin Muck Sur ☐ Algal Mat or Crust (B4) ☐ Other (Explain	
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aguitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches	s):
Water Table Present? Yes No Depth (inches	
Saturation Present? Yes No Depth (inches	1.21
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial phot	os, previous inspections), if available:
NA	
Remarks:	

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

20.4	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 30 ft		Species?		Number of Dominant Species	
1. Acer rubrum	50	<u>Y</u>	FAC	That Are OBL, FACW, or FAC: 12 (A)	
<sub>2.</sub> Pinus taeda	30	<u>Y</u>	FAC	Total Number of Dominant	
3. Liquidambar styraciflua	15		FAC	Species Across All Strata: 12 (B)	
4				Bassart of Bassis and Consider	
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/I	B)
6.				That the GBE, I NOW, GITNO.	υ,
	95	= Total Cov	er	Prevalence Index worksheet:	
17.5				Total % Cover of: Multiply by:	
50% of total cover: <u>47.5</u>	<u> </u>	total cover:	19	OBL species x 1 =	
Sapling Stratum (Plot size: 15 ft )	_		FACIL	FACW species x 2 =	
1. Quercus alba	5		FACU	FAC species x 3 =	
2. Pinus taeda	20	<u>Y</u>	FAC	FACU species x 4 =	
3. Liriodenderon tulipifera	5		FACU	UPL species x 5 =	
4. Magnolia virginiana	10	Y	FACW	Column Totals: (A) (B	٠,
5				Column rotals (A) (B	)
6.				Prevalence Index = B/A =	
	40	= Total Cov	er	Hydrophytic Vegetation Indicators:	
50% of total cover: 20				1 - Rapid Test for Hydrophytic Vegetation	
	20% of	total cover:		2 - Dominance Test is >50%	
Shrub Stratum (Plot size: 15 ft)	10		FACU	3 - Prevalence Index is ≤3.0¹	
1. Liriodendron tuliperfera	10			l <del>_</del>	
2. Liquidambar styraciflua	10	<u>Y</u>	FAC	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)	ng
3. Quercus alba	5		FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
4. Vaccinium corymbosum	15		FACW	Problematic Hydrophytic Vegetation (Explain)	
5. Acer rubrum	5		FAC	1	
6.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
	45	= Total Cov	er	Definitions of Five Vegetation Strata:	
E0% of total cover, 22.5	200/ of			Definitions of Five Vegetation Strata.	
50% of total cover: <u>22.5</u>	20% of			Tree – Woody plants, excluding woody vines,	
Herb Stratum (Plot size: 5 ft )		total cover:	9	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.	
Herb Stratum (Plot size: 5 ft  1. Vaccinium corymbosum	2	total cover:	9 FACW	Tree – Woody plants, excluding woody vines,	
Herb Stratum (Plot size: 5 ft  1. Vaccinium corymbosum  2. Boehmeria cylindrica	2 2	total cover:	9 FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines,	
Herb Stratum (Plot size: 5 ft  1. Vaccinium corymbosum  2. Boehmeria cylindrica  3. Bidens	2 2 2	total cover:	9 FACW FAC FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less	
Herb Stratum (Plot size: 5 ft  1. Vaccinium corymbosum  2. Boehmeria cylindrica  3. Bidens  4. Liriodendron tuliperfera	2 2 2 1	total cover:	FACW FACW FAC FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines,	
Herb Stratum (Plot size: 5 ft  1. Vaccinium corymbosum  2. Boehmeria cylindrica  3. Bidens	2 2 2 1 1	total cover:	FACW FACW FAC FACU FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines,	
Herb Stratum (Plot size: 5 ft  1. Vaccinium corymbosum  2. Boehmeria cylindrica  3. Bidens  4. Liriodendron tuliperfera	2 2 2 1	total cover:	FACW FACW FAC FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.	
Herb Stratum (Plot size: 5 ft  1. Vaccinium corymbosum  2. Boehmeria cylindrica  3. Bidens  4. Liriodendron tuliperfera  5. Magnolia virginiana  6. Dendrolycopodium obscurum	2 2 2 1 1 5	total cover:	FACW FACW FAC FACU FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.	
Herb Stratum (Plot size: 5 ft )  1. Vaccinium corymbosum  2. Boehmeria cylindrica  3. Bidens  4. Liriodendron tuliperfera  5. Magnolia virginiana  6. Dendrolycopodium obscurum  7.	2 2 2 1 1 5	total cover:	FACW FACW FAC FACU FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody	
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Herb Stratum (Plot size: 5 ft)  1. Vaccinium corymbosum  2. Boehmeria cylindrica  3. Bidens  4. Liriodendron tuliperfera  5. Magnolia virginiana  6. Dendrolycopodium obscurum  7  8  9  10  11  50% of total cover: 6.5  Woody Vine Stratum (Plot size: 30 ft)  1. Lonicera japonica  2. Smilax rotundifolia  3. Vitis rotundifolia  4  5	2 2 1 1 5 	Y Y Y Y  Total Cover:	FACW FACU FACU FACW FAC FACU FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.	
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Sampling Point: wnok024f\_w

Profile Desc	cription: (Describe	to the dep	oth needed to docur	nent the	indicator	or confirm	the absence	of indicators.)
Depth	Matrix		Redo	x Feature	es	. 2	_	
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-6	10 YR 3/1	80	10 YR 4/6	5	<u>C</u>	<u>M</u>	LM	10% 10 YR 4/2 matrix
3-13	10 YR 5/1	70	10 YR 4/6	20	<u>C</u>	PL/M	SA/LM	10% 10YR 4/2 matrix
		oletion, RM	=Reduced Matrix, MS	S=Maske	d Sand Gr	ains.		L=Pore Lining, M=Matrix.
Hydric Soil								ators for Problematic Hydric Soils <sup>3</sup> :
Histosol	• •		Dark Surface					cm Muck (A10) (MLRA 147)
	oipedon (A2)		Polyvalue Be				148)	Coast Prairie Redox (A16)
	istic (A3)		Thin Dark Su			147, 148)		(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye		(F2)		<u> </u>	Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Ma		FC)			(MLRA 136, 147)
	uck (A10) (LRR N)	- (011)	Redox Dark					/ery Shallow Dark Surface (TF12)
$=$ $\cdot$	d Below Dark Surfac	e (ATT)	Depleted Da				ш	Other (Explain in Remarks)
	ark Surface (A12)	LDDN	Redox Depre			LDDN		
	Mucky Mineral (S1) <b>(</b> <b>A 147, 148)</b>	LKK N,	☐ Iron-Mangan MLRA 13		ses (F12) (	LKK N,		
	Gleyed Matrix (S4)		Umbric Surfa		(MI DA 12	)G 122\	3Ind	licators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					etland hydrology must be present,
	Matrix (S6)		Red Parent N					iless disturbed or problematic.
	Layer (if observed)		Ned Falenti	nateriai (i	I Z I) (IVILIV	A 127, 147	7) un	less disturbed of problematic.
Type: N		•						
Depth (in			<u> </u>				Hydric Soil	Present? Yes Vo No
Remarks:	no condo/cilt thr	ou about	watland and unla	nd soil			•	
Г	ne sands/siit thi	ougnout	wetland and upla	ina son	S.			



Wetland data point wnok024f\_w facing south



Wetland data point wnok024f\_w facing south



Wetland data point wnok024f\_w soil sample

# wnok024\_u also serves as upland point for wnok025f\_w

Project/Site: Southeast Reliability Project	City/County: NA/Nottoway Sampling Date: 8/29/2014
Applicant/Owner: Dominion Transmission	State: VA Sampling Point: wnok024_u
Investigator(s): J. Sweitzer, S. Grove, E. Bubb	Section, Township, Range: NA
•	cal relief (concave, convex, none): concave Slope (%): 15
Subregion (LRR or MLRA): LRR P Lat: _37.124088	Long: -77.930009 Datum: NAD1983
Soil Map Unit Name: Appling coarse sandy loam, undulating	phase NWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time of year	
Are Vegetation Soil , or Hydrology significantly	v disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally pro	oblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.
Hadaala fa Vaadafa Baaaa 2	
Hydrophytic Vegetation Present?  Hydric Soil Present?  Yes No V	Is the Sampled Area within a Wetland? Yes No
Wetland Hydrology Present?	within a wetiant:
Remarks:	•
	vetland areas (wnok024 and 025). Associated with hillslope
between streams SNOK030b and SNOK031.	retiand areas (whoke24 and 625). Associated with missispe
Photos: 2464 through 2468 (soil, N, E, S, W)	
LIVEROLOGY	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) True Aquatic P	<u> </u>
High Water Table (A2)  Hydrogen Sulfi	
1 <del></del>	ospheres on Living Roots (C3) Moss Trim Lines (B16) educed Iron (C4) Dry-Season Water Table (C2)
	eduction in Tilled Soils (C6) Crayfish Burrows (C8)
Drift Deposits (B3)  Thin Muck Suri	·
Algal Mat or Crust (B4)  Other (Explain	
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches	):
Water Table Present? Yes No Depth (inches	):
Saturation Present? Yes No Depth (inches	
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photo	on provious inspections) if qualishle.
Describe Recorded Data (stream gauge, monitoring well, aerial prioto	os, previous irispections), ii avaliable:
Remarks:	
nomano.	

#### VEGETATION (Five Strata) - Use scientific names of plants.

		p.a		
Tree Stratum (Plot size: 30 ft )		Dominant		Dominance Test worksheet:
		Species?		Number of Dominant Species
1. Acer rubrum	50	. <u>Y</u>	FAC	That Are OBL, FACW, or FAC: 7 (A)
2. Pinus taeda	10		FAC	Total Number of Dominant
3. Liquidambar styraciflua	15		FAC	Species Across All Strata: 10 (B)
4. Liriodenderon tulipifera	10		FACU	Species Across Air Strata.
			17100	Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 70 (A/B)
6				
	85	= Total Cov	er	Prevalence Index worksheet:
40 F				Total % Cover of: Multiply by:
50% of total cover: 42.5	20% of	total cover	17	OBL species x 1 =
Sapling Stratum (Plot size: 15 ft )				
1. Acer rubrum	25	Υ	FAC	FACW species x 2 =
2. Pinus taeda	5		FAC	FAC species x 3 =
	5	-		FACU species x 4 =
3. Liquidambar styraciflua			FAC	UPL species x 5 =
4. Liriodendron tuliperfera	20	Υ	FACU	
5				Column Totals: (A) (B)
<u> </u>				Duranta and Index D/A
b				Prevalence Index = B/A =
	55	= Total Cov	er	Hydrophytic Vegetation Indicators:
50% of total cover: <u>27.5</u>	20% of	total cover	.11	1 - Rapid Test for Hydrophytic Vegetation
· · · · · · · · · · · · · · · · · · ·	20 /6 01	total cover	<del></del>	2 - Dominance Test is >50%
Shrub Stratum (Plot size: 15 ft				
1. Ilex opaca	2	<u> Y</u>	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Liquidambar styraciflua	2	Υ	FAC	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3 Carpinus caroliniana	1	Y	FAC	data in Remarks or on a separate sheet)
<u> </u>		· <del></del>		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
4				
5				1
6.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
	6	T-1-1-0		be present, unless disturbed or problematic.
	6	= Total Cov	er	Definitions of Five Vegetation Strata:
50% of total cover:				Definitions of Five Vegetation Strata:
50% of total cover:				Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft )	20% of	total cover	<u> </u>	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
Herb Stratum (Plot size: 5 ft <sub>1.</sub> Liquidambar styraciflua	20% of	total cover	FACW	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft )  1. Liquidambar styraciflua  2. Chasmanthium	20% of 2	total cover	FACW FAC	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft <sub>1.</sub> Liquidambar styraciflua	20% of	total cover	FACW	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
Herb Stratum (Plot size: 5 ft  1. Liquidambar styraciflua  2. Chasmanthium  3. Athyrium asplenoides	20% of 2 2 2 2	total cover	FACW FAC	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft )  1. Liquidambar styraciflua  2. Chasmanthium	20% of 2 2 2 2	total cover	FACW FAC	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
Herb Stratum (Plot size: 5 ft  1. Liquidambar styraciflua  2. Chasmanthium  3. Athyrium asplenoides	20% of 2 2 2 2	total cover	FACW FAC	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft  1. Liquidambar styraciflua  2. Chasmanthium  3. Athyrium asplenoides	20% of 2 2 2 2	Y Y Y	FACW FAC	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
Herb Stratum (Plot size: 5 ft  1. Liquidambar styraciflua  2. Chasmanthium  3. Athyrium asplenoides  4	20% of 2 2 2 2	Y Y Y	FACW FAC	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
Herb Stratum (Plot size: 5 ft 1, Liquidambar styraciflua 2, Chasmanthium 3, Athyrium asplenoides 4. 5. 6. 7.	20% of 2 2 2 2 2	Y Y Y	FACW FAC	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including
Herb Stratum (Plot size: 5 ft )  1. Liquidambar styraciflua 2. Chasmanthium 3. Athyrium asplenoides 4	20% of 2 2 2 2 2	Y Y Y	FACW FAC	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
Herb Stratum (Plot size: 5 ft 1. Liquidambar styraciflua 2. Chasmanthium 3. Athyrium asplenoides 4	20% of 2 2 2 2	Y Y Y	FACW FAC	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
Herb Stratum (Plot size: 5 ft )  1. Liquidambar styraciflua 2. Chasmanthium 3. Athyrium asplenoides 4	20% of 2 2 2 2	Y Y Y	FACW FAC	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft  1. Liquidambar styraciflua 2. Chasmanthium 3. Athyrium asplenoides 4	20% of 2 2 2 2	Y Y Y	FACW FAC	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3
Herb Stratum (Plot size: 5 ft 1. Liquidambar styraciflua 2. Chasmanthium 3. Athyrium asplenoides 4	20% of 2 2 2 2 2	Y Y Y	FACW FAC FAC	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft  1. Liquidambar styraciflua 2. Chasmanthium 3. Athyrium asplenoides 4	20% of 2 2 2 2 2	Y Y Y	FACW FAC FAC	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft 1. Liquidambar styraciflua 2. Chasmanthium 3. Athyrium asplenoides 4	20% of 2 2 2 2 2	Y Y Y Y = Total Cov	FACW FAC FAC	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft 1. Liquidambar styraciflua 2. Chasmanthium 3. Athyrium asplenoides 4	20% of 2 2 2 2 2	Y Y Y Y = Total Cov	FACW FAC FAC	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft  1. Liquidambar styraciflua 2. Chasmanthium 3. Athyrium asplenoides 4	20% of 2 2 2 2 2 2 6 6 20% of 2	Y Y Y Y	FACW FAC FAC	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft 1. Liquidambar styraciflua 2. Chasmanthium 3. Athyrium asplenoides 4	20% of 2 2 2 2 6 20% of 2	Y Y Y Y = Total Cov	FACW FAC FAC	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft  1. Liquidambar styraciflua 2. Chasmanthium 3. Athyrium asplenoides 4	20% of 2 2 2 2 6 20% of 2	Y Y Y Y	FACW FAC FAC	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft 1. Liquidambar styraciflua 2. Chasmanthium 3. Athyrium asplenoides 4	20% of 2 2 2 2 6 6 20% of 2	Y Y Y Y	FACW FAC FAC	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft  1. Liquidambar styraciflua 2. Chasmanthium 3. Athyrium asplenoides 4	20% of 2 2 2 2 6 2 2 6 20% of 2 2 6 20% of 2	Total covers	FACW FAC FAC	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft 1. Liquidambar styraciflua 2. Chasmanthium 3. Athyrium asplenoides 4	20% of 2 2 2 2 6 2 2 6 20% of 2 2 6 20% of 2	Total covers	FACW FAC FAC	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft  1. Liquidambar styraciflua 2. Chasmanthium 3. Athyrium asplenoides 4	20% of 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Total covers	FACW FAC FAC FAC	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft  1. Liquidambar styraciflua 2. Chasmanthium 3. Athyrium asplenoides 4	20% of 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Total covers	FACW FAC FAC FAC	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.
Herb Stratum (Plot size: 5 ft 1. Liquidambar styraciflua 2. Chasmanthium 3. Athyrium asplenoides 4	20% of 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	= Total Covers	FACW FAC FAC FAC FAC FAC FAC FAC	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.
Herb Stratum (Plot size: 5 ft 1. Liquidambar styraciflua 2. Chasmanthium 3. Athyrium asplenoides 4	20% of 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	= Total Covers	FACW FAC FAC FAC FAC FAC FAC FAC	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.
Herb Stratum (Plot size: 5 ft 1. Liquidambar styraciflua 2. Chasmanthium 3. Athyrium asplenoides 4	20% of 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	total covers  Y Y Y Y  Y  = Total Covers  Total covers  total covers  total covers  total covers	FACW FAC FAC	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.  Hydrophytic Vegetation Present?  Yes No No

Sampling Point: wnok024\_u

Profile Desc	cription: (Describe	to the dept	th needed to docun	nent the in	dicator o	or confirm	the absence	of indicators.)
Depth	Matrix			x Features			_	
(inches)	Color (moist)	<u>%</u>	Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	<u>Remarks</u>
0-4	10 YR 2/2	95					LM	
4-11	10 YR 4/2	65					SA/LM	30% 10YR 2/2 matrix
11-17	10 YR 6/4	90					SA/LM	10% 10 YR 4/2 matrix
-		- ——						
1Type: C=C	oncentration D-Der	letion RM-	Reduced Matrix, MS	 S-Masked	Sand Gra	ins	<sup>2</sup> Location: P	L=Pore Lining, M=Matrix.
Hydric Soil		Jietion, Rivi=	rreduced Matrix, Mc	=iviaskeu	Sanu Gra	11115.		ators for Problematic Hydric Soils <sup>3</sup> :
Histosol			■ Dark Surface	(\$7)				2 cm Muck (A10) (MLRA 147)
=	oipedon (A2)		Polyvalue Be		e (S8) <b>(M</b>	LRA 147.		Coast Prairie Redox (A16)
	istic (A3)		Thin Dark Su				,	(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye			,	☐ F	Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Mat	rix (F3)			_	(MLRA 136, 147)
	uck (A10) (LRR N)		Redox Dark S					/ery Shallow Dark Surface (TF12)
_ ·	d Below Dark Surfac	e (A11)	Depleted Dar					Other (Explain in Remarks)
	ark Surface (A12)	LDDN	Redox Depre			DD N		
	Mucky Mineral (S1) <b>(</b> <b>A 147, 148)</b>	LRR N,	Iron-Mangano MLRA 130		S (F 12) <b>(L</b>	LKK N,		
	Gleyed Matrix (S4)		Umbric Surfa		/II RΔ 13/	3 122)	3Inc	dicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					etland hydrology must be present,
	I Matrix (S6)		Red Parent N					nless disturbed or problematic.
	Layer (if observed)	:		,	, ,			·
Type: N	A							
Depth (in	ches):						Hydric Soil	I Present? Yes No
Remarks: V		ما بدر د ما ط	out wetland and	م ام مرامین	: !			
V	ery fine sands/si	it through	out wetland and	upiano s	sons.			



Upland data point wnok024\_u facing south



Upland data point wnok024f\_w facing North



Upland data point wnok024\_u soil sample

Project/Site: Southeast Reliability Project	City/County: NA/Nottoway Sampling Date: 8/29/2014
Applicant/Owner: Dominion Transmission	State: VA Sampling Point: wnok026f_v
Investigator(s): J. Sweitzer, S. Grove, E. Bubb	Section, Township, Range: NA
	ocal relief (concave, convex, none): none Slope (%): 5
Subregion (LRR or MLRA): LRR P Lat: 37.123716	S Long: -77.929173 Datum: NAD1983
Soil Map Unit Name: Appling coarse sandy loam, undulating	
Are climatic / hydrologic conditions on the site typical for this time of y	
	y disturbed? Are "Normal Circumstances" present? Yes V
Are Vegetation Soil , or Hydrology naturally pr	•
Are vegetation, soil, or rivationary j	oblematic: (if fleeded, explain any answers in flemancs.)
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	Is the Sampled Area within a Wetland? Yes No No
Hydric Soil Present?  Wetland Hydrology Present?  Yes No No	. Within a wettand: Tes No
Remarks:	•
	ics into enhancial partian of stream SNOV020h. In an area of
prior tree harvesting. Relatively sparse tree-sized over	ies into ephemeral portion of stream SNOK030b. In an area of
prior tree narvesting. Relatively sparse tree-sized over	story.
Photos: 2479 through 2483 (soil, N, E, S, W)	
,	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)  True Aquatic F	_ ` * * *
High Water Table (A2)  Hydrogen Sull	
<u> </u>	ospheres on Living Roots (C3) Moss Trim Lines (B16)
	educed Iron (C4)  Dry-Season Water Table (C2)  Crysfish Dyrania (C0)
Sediment Deposits (B2)  Drift Deposits (B3)  Recent Iron R  Thin Muck Sui	eduction in Tilled Soils (C6)
Algal Mat or Crust (B4)  Other (Explain	
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches	s):
Water Table Present? Yes No Depth (inches	s):
Saturation Present? Yes No Depth (inches	s): Wetland Hydrology Present? Yes V No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photons are considered by the control of the contr	as provious inspections) if available.
NA	os, previous inspections), ii available.
Remarks:	

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

1. 2. Pinus taeda 30 Y FAC 3. Liquidambar styraciflua 15 Y FAC 5. 4. 4. 5. 6. 6. 5. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.	20.5	Absolute	Dominant		Dominance Test worksheet:
2 Pinus taeda 30 Y FAC 10tal Namber of Dominant Species Across All Striute 9 (B) 4.	<u>Tree Stratum</u> (Plot size: 30 ft )	% Cover	Species?	<u>Status</u>	
3 Liquidambar styraciflua  15 Y FAC  4.	2 Pinus taeda	30	<u></u>	FAC	That Are OBL, FACW, or FAC: _3 (A)
Parcial of Deminiant Species   That Are OSU, FACW, or FAC   100 (A/B)					
Assert Author   Assert Autho			<u> </u>	170	Species Across All Strata: 9 (B)
A					
As					That Are OBL, FACW, or FAC: 100 (A/B)
Total % Cover of:   Multiply by:   Cover of:   Multiply by:   Cover of:   Multiply by:   Coll species   X =   Total % Cover of:   Multiply by:   Coll species   X =   Total % Cover of:	0	45	Total Cour		Prevalence Index worksheet:
Sappling Stratum (Plot size: 15 ft   60	22.5				Total % Cover of: Multiply by:
According to the properties of the properties		20% of	total cover:	9	
Section   Sect	Sapling Stratum (Plot size: 15 II	00	V	<b>F</b> AC	
Sumidar Description		50	<u>Y</u>		
UPL species					FACU species x 4 =
Column Totals:	-			FACU	•
Prevalence Index = PIA =   Prevalence Index =					
Shrub Stratum (Plot size: 15 ft   1. Rapid Test for Hydrophytic Vegetation Indicators:   1. Rapid Test for Hydrophytic Vegetation   2. Dominance Test is 50%   2. Dominance Test is 50. Dominance Test is 50%   2. Dominance Test is 50. Dominance Test is 50. Dominan					
Shrub Stratum (Plot size: 15 ft	6				
Shrub Stratum (Plot size: 15 ft   1, Ulmus americana   5		80	= Total Cov	er	1
Ulmus americana   5	50% of total cover: <u>40</u>	20% of	total cover:	<u>16</u>	1 =
2 Liquidambar styracifilia 3	Shrub Stratum (Plot size: 15 ft )				l <del></del>
3 Carpinus caroliniana 4. 4. 5. Acer rubrum 5 FAC    Problematic Hydrophytic Vegetation 1 (Explain)   Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.    Definitions of Five Vegetation 1 (Explain)   Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.   Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7,6 cm) or larger in diameter at breast height (DBH).   Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7,6 cm) DBH.   Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7,6 cm) DBH.   Shrub – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7,6 cm) DBH.   Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.   Herb – All herbaceous vines, regardless of size, and woody plants, except woody vines, regardless of size, and woody plants, except woody vines, regardless of height.   Woody Vine Stratum (Plot size: 30 ft   y FAC   y	1. Ulmus americana	5		FAC	l <del>=</del>
Problematic Hydrophytic Vegetation   (Explain)	2. Liquidambar styraciflua	35	Υ	FAC	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
\$ Acer rubrum  \$ 5	3. Carpinus caroliniana	10		FAC	l 💳
Indicators of hydric soil and wetland hydrology must be present; unless disturbed or problematic.	4				Problematic Hydrophytic Vegetation (Explain)
be present, unless disturbed or problematic.    55	5. Acer rubrum	5		FAC	The street are of the street are the
Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft. (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft. (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft. (6 m) or more in height and 15 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft. (6 m) or more in height and 15 in. (7.6 cm) DBH.  Sapling – Woody plants, excluding woody vines, approximately 20 ft. (6 m) or more in height and 15 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 20 ft. (6 m) or more in height and 18 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 20 ft. (6 m) or more in height and 18 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 20 ft. (6 m) or more in height and 18 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 20 ft. (6 m) or more in height and 18 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 20 ft. (6 m) or more in height and 18 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 20 ft. (6 m) or more in height and 18 in. (7.6 cm) DBH.  Shrub – All herbaceous (non-woody) plants, except woody vines, approximately 20 ft. (6 m) or more in height and 18 in. (7.6 cm) DBH.  Shrub – All herbaceous (non-woody) plants, except woody vines, approximately 20 ft. (1 to 6 m) in height.  Woody vine – All woody vines, approximately 20 ft. (6 m) or more in height and 18 in. (7.6 cm) DBH.  Shrub – All herbaceous (non-woody) plants, except woody vines, approximately 20 ft. (1 to 6 m) in height.  Woody vine – All woody vines, approximately 20 ft. (1 to 6 m) in height.  Woody vine – All woody vines, approximately 20 ft. (1 to 6 m) in height.  The f	6				be present, unless disturbed or problematic.
Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  2		55	= Total Cov	er	·
Herb Stratum (Plot size: 5 ft 1, Oncolea sensibilis 20 Y FACW 2, Boehmeria cylindrica 1 FACW 3, Athyrium asplenoides 15 Y FAC 4, Chasmanthium 2 FAC 5, FAC 5, FAC 5, FAC 5, FAC 6, FAC 7, FAC 7	50% of total cover: 27.5	20% of	total cover:	11	-
1. Onoclea sensibilis 2. Boehmeria cylindrica 3. Athyrium asplenoides 4. Chasmanthium 5. Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.  Woody vine – All woody vines, regardless of height.  Woody vine – All woody vines, regardless of height.  Hydrophytic Vegetation Present?  Yes No		_			Tree – Woody plants, excluding woody vines,
2 Boehmeria cylindrica 3 Athyrium asplenoides 4 Chasmanthium 2 FAC 4 Chasmanthium 2 FAC 5 FAC 6 FAC 7 FAC 7 FAC 8 Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody Vine – All woody vines, regardless of height.  Woody Vine – All woody vines, regardless of height.  Woody Vine – All woody vines, regardless of height.  Woody vine – All woody vines, regardless of height.  Hydrophytic Vegetation Present?  Yes No No	1 Onoclea sensibilis	20	Υ	FACW	(7.6 cm) or larger in diameter at breast height (DBH).
3 Athyrium asplenoides 4 Chasmanthium 2 FAC 4 Chasmanthium 2 FAC 5 FAC 5 FAC 6 FAC 7 FAC 8 FAC 8 FAC 8 FAC 8 FAC 8 FAC 8 FAC 7 FAC 8 FAC 9 FAC 10 FAC 1		1		FACW	Capling Woody plants evaluding woody vines
4. Chasmanthium  2 FAC  5. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody Vine – All woody vines, regardless of height.  38 = Total Cover  50% of total cover: 19 20% of total cover: 7.6  Woody Vine Stratum (Plot size: 30 ft 1) 1. Lonicera japonica 2 Y FAC 2 Smilax rotundifolia 3 Campsis radicans 2 Y FAC 4. Hydrophytic Vegetation Present?  Hydrophytic Vegetation Present?  Yes No	-	15	Y		approximately 20 ft (6 m) or more in height and less
Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, regardless of size, and woody plants, except woody vines, regardless of size, and woody plants, except woody vines, regardless of size, and woody plants, except woody vines, regardless of height.    10					
approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.    10.	·· <del>·</del>				Shrub – Woody plants, excluding woody vines.
Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.    38					
8	7				Harb All harbacoous (non woody) plants, including
plants, except woody vines, less than approximately 3 ft (1 m) in height.    38					
10					
11.   38					π (1 m) in neight.
38					Woody vine – All woody vines, regardless of height.
50% of total cover: 19 20% of total cover: 7.6  Woody Vine Stratum (Plot size: 30 ft )  1. Lonicera japonica 2 Y FAC  2. Smilax rotundifolia 10 Y FAC  3. Campsis radicans 2 Y FAC  4.		38	– Total Cov	or	
Woody Vine Stratum (Plot size: 30 ft  1. Lonicera japonica 2 Y FAC 2. Smilax rotundifolia 10 Y FAC 3. Campsis radicans 2 Y FAC 4.  5.  14 = Total Cover 50% of total cover: 7 20% of total cover: 2.8  Remarks: (Include photo numbers here or on a separate sheet.)	10				
1. Lonicera japonica 2 Y FAC 2. Smilax rotundifolia 3. Campsis radicans 2 Y FAC 3. Campsis radicans 2 Y FAC 4.		20% of	total cover:	7.0	
2 Smilax rotundifolia 3 Campsis radicans 2 Y FAC 4. 5.  14 = Total Cover 50% of total cover: 7 20% of total cover: 2.8  Remarks: (Include photo numbers here or on a separate sheet.)		0	V	E40	
2 Y FAC  4			Y		
4			Y		
5	3. Campsis radicans	2	<u>Y</u>	FAC	
Remarks: (Include photo numbers here or on a separate sheet.)  Vegetation Present?  Vegetation Present?  Vegetation Present?  Ves No	4				
Remarks: (Include photo numbers here or on a separate sheet.)  Vegetation Present?  Vegetation Present?  Vegetation Present?  Ves No	5				Hudrophytic
50% of total cover: 7 20% of total cover: 2.8 Present? Yes No		14	= Total Cov	er	
Remarks: (Include photo numbers here or on a separate sheet.)	50% of total cover: 7	20% იf	total cover:	2.8	
·			00 (01)		
- ,	·		s area are	FAC)	

Sampling Point: wnok026f\_w

Profile Desc	ription: (Describe	to the dep	oth needed to docur	nent the i	indicator	or confirm	the absence	of indicators.)
Depth	Matrix			x Feature				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	<u>Remarks</u>
0-3	10 YR 3/2	98					LM	gravelly
3-7	10 YR 4/2	70	10 YR 4/6	20	С	M	SA/LM	10% 10YR 5/1 matrix
7-15	10 YR 6/2	70	10 YR 6/8	30	C	PL/M	SA/LM	
	-							
<sup>1</sup> Type: C=Co	oncentration, D=Dep	letion, RM	=Reduced Matrix, M	S=Masked	d Sand Gr	ains.		L=Pore Lining, M=Matrix.
Hydric Soil I	ndicators:							ators for Problematic Hydric Soils <sup>3</sup> :
L Histosol			Dark Surface					cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be				<b>148)</b> $\square$ C	Coast Prairie Redox (A16)
Black Hi			Thin Dark Su			47, 148)		(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye		(F2)		<u> </u>	riedmont Floodplain Soils (F19)
	Layers (A5)		Depleted Ma		-c)			(MLRA 136, 147) Yery Shallow Dark Surface (TF12)
	ick (A10) <b>(LRR N)</b> d Below Dark Surfac	ρ (Δ11)	Depleted Da	,	•			ery Stratiow Dark Surface (1712) Other (Explain in Remarks)
_ :	ark Surface (A12)	G (ATT)	Redox Depre					otter (Explain in Remarks)
	lucky Mineral (S1) (I	LRR N,	Iron-Mangan			LRR N,		
	\ 147, 148)	·	MLRA 13		` , ,			
	leyed Matrix (S4)		Umbric Surfa	ace (F13)	(MLRA 13	6, 122)		licators of hydrophytic vegetation and
	edox (S5)		Piedmont Flo					etland hydrology must be present,
	Matrix (S6)		Red Parent I	Material (F	21) <b>(MLR</b>	A 127, 147	') un	less disturbed or problematic.
	ayer (if observed)	:						
Type: NA								
Depth (inc	ches):						Hydric Soil	Present? Yes Vo No
Remarks:	no condo/cilt thr	oughout	wetland and upla	and soils			•	
Г	rie sarius/siit triii	ougnout	welland and upla	ariu Solis	<b>.</b>			



Wetland data point wnok026f\_w facing south



Wetland data point wnok026f\_w facing north



Wetland data point wnok026f\_w soil sample

20 <del>f</del> f		Dominant		Dominance Test worksheet:	
Tree Stratum (Plot size: 30 ft )	% Cover	Species?	<u>Status</u>	Number of Dominant Species	(.)
1 2. Pinus taeda	10	Y	FAC	That Are OBL, FACW, or FAC: 5	(A)
				Total Number of Dominant	(5)
3				Species Across All Strata: 7	. (B)
4				Percent of Dominant Species	
5				That Are OBL, FACW, or FAC: 71	(A/B)
6	10	= Total Cov		Prevalence Index worksheet:	
				Total % Cover of: Multiply by:	
50% of total cover:	20% of	total cover:		OBL species x 1 =	
Sapling Stratum (Plot size: 15 ft	40		E40	FACW species x 2 =	
1. Acer rubrum	<u>10</u>		FAC	FAC species x 3 =	
2. Pinus taeda		Y	FAC	FACU species x 4 =	
3. Liquidambar styraciflua	30	<u>Y</u> Y	FACIL	UPL species x 5 =	
4. Liriodendron tuliperfera			FACU	Column Totals: (A)	
5					
6	75			Prevalence Index = B/A =	
		= Total Cov		Hydrophytic Vegetation Indicators:	
50% of total cover: 37.5	20% of	total cover:	<u>15 ft</u>	1 - Rapid Test for Hydrophytic Vegetation	
Shrub Stratum (Plot size: 15 ft				2 - Dominance Test is >50%	
1. Liriodendron tuliperfera	5		FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>	
2. Liquidambar styraciflua	20	<u>Y</u>	FAC	4 - Morphological Adaptations <sup>1</sup> (Provide sudata in Remarks or on a separate sheet	oporting
3. Acer rubrum	15	<u>Y</u>	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Expla	
4. Fagus grandifolia	10		FACU	Problematic Trydrophytic Vegetation (Expire	ani <i>i)</i>
5				<sup>1</sup> Indicators of hydric soil and wetland hydrology	muet
6				be present, unless disturbed or problematic.	must
	50				
		= Total Cov	er	Definitions of Five Vegetation Strata:	
50% of total cover: <u>25</u>				_	
Herb Stratum (Plot size: 5 ft	20% of	total cover:	10	Tree – Woody plants, excluding woody vines,	3 in.
Herb Stratum (Plot size: 5 ft	20% of	total cover:	10	_	3 in. OBH).
	20% of	total cover:	10	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and (7.6 cm) or larger in diameter at breast height (I	OBH).
Herb Stratum (Plot size: 5 ft  1. Vaccinium angustifolium  2. Juniperus virginiana	20% of 3	total cover:	FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and (7.6 cm) or larger in diameter at breast height (I Sapling – Woody plants, excluding woody vines approximately 20 ft (6 m) or more in height and	OBH). s,
Herb Stratum (Plot size: 5 ft	20% of 3 1	total cover:	FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and (7.6 cm) or larger in diameter at breast height (I Sapling – Woody plants, excluding woody vines	OBH). s,
Herb Stratum (Plot size: 5 ft  1. Vaccinium angustifolium  2. Juniperus virginiana  3	20% of 3 1	total cover:	FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and (7.6 cm) or larger in diameter at breast height (I Sapling – Woody plants, excluding woody vines approximately 20 ft (6 m) or more in height and than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines,	OBH). s,
Herb Stratum (Plot size: 5 ft  1. Vaccinium angustifolium  2. Juniperus virginiana  3	20% of 3 1	total cover:	FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and (7.6 cm) or larger in diameter at breast height (I Sapling – Woody plants, excluding woody vines approximately 20 ft (6 m) or more in height and than 3 in. (7.6 cm) DBH.	OBH). s,
Herb Stratum (Plot size: 5 ft  1. Vaccinium angustifolium  2. Juniperus virginiana  3	20% of 3 1	Y	FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and (7.6 cm) or larger in diameter at breast height (I Sapling – Woody plants, excluding woody vines approximately 20 ft (6 m) or more in height and than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, inclinations.	OBH). s, less uding
Herb Stratum (Plot size: 5 ft  1. Vaccinium angustifolium  2. Juniperus virginiana  3	20% of 3 1	Y	FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and (7.6 cm) or larger in diameter at breast height (I Sapling – Woody plants, excluding woody vines approximately 20 ft (6 m) or more in height and than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, inclinerbaceous vines, regardless of size, and wood	DBH). s, less uding
Herb Stratum (Plot size: 5 ft 1. Vaccinium angustifolium 2. Juniperus virginiana 3. 4. 5. 6. 7.	20% of 3 1	Y	FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and (7.6 cm) or larger in diameter at breast height (I Sapling – Woody plants, excluding woody vines approximately 20 ft (6 m) or more in height and than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, inclinations.	DBH). s, less uding
Herb Stratum (Plot size: 5 ft 1. Vaccinium angustifolium 2. Juniperus virginiana 3. 4. 5. 6. 7. 8.	20% of 3 1	Y	FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and (7.6 cm) or larger in diameter at breast height (I Sapling – Woody plants, excluding woody vines approximately 20 ft (6 m) or more in height and than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, inclinerbaceous vines, regardless of size, and wood plants, except woody vines, less than approximately (1 m) in height.	DBH). s, less uding y ately 3
Herb Stratum (Plot size: 5 ft 1. Vaccinium angustifolium 2. Juniperus virginiana 3. 4. 5. 6. 7. 8. 9.	20% of 3 1	Y	FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and (7.6 cm) or larger in diameter at breast height (I Sapling – Woody plants, excluding woody vines approximately 20 ft (6 m) or more in height and than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, inclinerbaceous vines, regardless of size, and wood plants, except woody vines, less than approximately.	DBH). s, less uding y ately 3
Herb Stratum (Plot size: 5 ft  1. Vaccinium angustifolium  2. Juniperus virginiana  3	20% of 3 1	Y	FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and (7.6 cm) or larger in diameter at breast height (I Sapling – Woody plants, excluding woody vines approximately 20 ft (6 m) or more in height and than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, inclinerbaceous vines, regardless of size, and wood plants, except woody vines, less than approximately (1 m) in height.	DBH). s, less uding y ately 3
Herb Stratum (Plot size: 5 ft  1. Vaccinium angustifolium  2. Juniperus virginiana  3	20% of 3 1 1	Y  Total Cover:	FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and (7.6 cm) or larger in diameter at breast height (I Sapling – Woody plants, excluding woody vines approximately 20 ft (6 m) or more in height and than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, inclinerbaceous vines, regardless of size, and wood plants, except woody vines, less than approximately (1 m) in height.	DBH). s, less uding y ately 3
Herb Stratum (Plot size: 5 ft)  1. Vaccinium angustifolium  2. Juniperus virginiana  3	20% of 3 1 1	Y  Total Cover:	FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and (7.6 cm) or larger in diameter at breast height (I Sapling – Woody plants, excluding woody vines approximately 20 ft (6 m) or more in height and than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, inclinerbaceous vines, regardless of size, and wood plants, except woody vines, less than approximately (1 m) in height.	DBH). s, less uding y ately 3
Herb Stratum (Plot size: 5 ft)  1. Vaccinium angustifolium  2. Juniperus virginiana  3	20% of 3 1 1	Y  Total Cover:	FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and (7.6 cm) or larger in diameter at breast height (I Sapling – Woody plants, excluding woody vines approximately 20 ft (6 m) or more in height and than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, inclinerbaceous vines, regardless of size, and wood plants, except woody vines, less than approximately (1 m) in height.	DBH). s, less uding y ately 3
Herb Stratum (Plot size: 5 ft 1. Vaccinium angustifolium 2. Juniperus virginiana 3. 4. 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 2 Woody Vine Stratum (Plot size: 30 ft ) 1. Smilax rotundifolia	20% of 3 1	Total Cover:	FACU FACU FACU FACU FACU FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and (7.6 cm) or larger in diameter at breast height (I Sapling – Woody plants, excluding woody vines approximately 20 ft (6 m) or more in height and than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, inclinerbaceous vines, regardless of size, and wood plants, except woody vines, less than approximately (1 m) in height.	DBH). s, less uding y ately 3
Herb Stratum (Plot size: 5 ft  1. Vaccinium angustifolium  2. Juniperus virginiana  3. 4. 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 2  Woody Vine Stratum (Plot size: 30 ft )	20% of 3 1 1 4 20% of 3 3	Total Cover:	FACU FACU FACU FACU FACU FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and (7.6 cm) or larger in diameter at breast height (I Sapling – Woody plants, excluding woody vines approximately 20 ft (6 m) or more in height and than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, inclinerbaceous vines, regardless of size, and wood plants, except woody vines, less than approximately (1 m) in height.	DBH). s, less uding y ately 3
Herb Stratum (Plot size: 5 ft  1. Vaccinium angustifolium  2. Juniperus virginiana  3. 4. 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 2  Woody Vine Stratum (Plot size: 30 ft 1. Smilax rotundifolia 2. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	20% of 3 1	Y  Total Cover:  Y  Total Cover:  Y	FACU FACU FACU FACU FACU FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and (7.6 cm) or larger in diameter at breast height (I Sapling – Woody plants, excluding woody vines approximately 20 ft (6 m) or more in height and than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, inclinerbaceous vines, regardless of size, and wood plants, except woody vines, less than approximately (1 m) in height.	DBH). s, less uding y ately 3
Herb Stratum (Plot size: 5 ft)  1. Vaccinium angustifolium  2. Juniperus virginiana  3	20% of	Total Cover:  Y  Total Cover:  Y  Y  Total Cover:  Y	FACU FACU FACU FACU FACU FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and (7.6 cm) or larger in diameter at breast height (I. Sapling – Woody plants, excluding woody vines approximately 20 ft (6 m) or more in height and than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, inclinerbaceous vines, regardless of size, and wood plants, except woody vines, less than approximately (1 m) in height.  Woody vine – All woody vines, regardless of here	DBH). s, less uding y ately 3
Herb Stratum (Plot size: 5 ft)  1. Vaccinium angustifolium  2. Juniperus virginiana  3	20% of	Total Cover:  Y  Total Cover:  Y  Y  Total Cover:  Y	FACU FACU FACU FACU FACU FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and (7.6 cm) or larger in diameter at breast height (I Sapling – Woody plants, excluding woody vines approximately 20 ft (6 m) or more in height and than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, inclinerbaceous vines, regardless of size, and wood plants, except woody vines, less than approximately (1 m) in height.	DBH). s, less uding y ately 3
Herb Stratum (Plot size: 5 ft)  1. Vaccinium angustifolium  2. Juniperus virginiana  3	20% of 3 1 20% of 3 20% of 3 3 20% of 3	Total Cover:  Y  Total Cover:  Y  Total Cover:  Y  Total Cover:	FACU FACU FACU FACU FACU FACU FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and (7.6 cm) or larger in diameter at breast height (I. Sapling – Woody plants, excluding woody vines approximately 20 ft (6 m) or more in height and than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, inclinerbaceous vines, regardless of size, and wood plants, except woody vines, less than approximately (1 m) in height.  Woody vine – All woody vines, regardless of height herbaceous with the plants of the plants, except woody vines, regardless of height herbaceous with the plants of the	DBH). s, less uding y ately 3
Herb Stratum (Plot size: 5 ft)  1. Vaccinium angustifolium  2. Juniperus virginiana  3	20% of 3 1 20% of 3 20% of 3 20% of	Total Cover:  Y  Total Cover:  Y  Total Cover:  Y  Total Cover:	FACU FACU FACU FACU FACU FACU FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and (7.6 cm) or larger in diameter at breast height (I Sapling – Woody plants, excluding woody vines approximately 20 ft (6 m) or more in height and than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, inclinerbaceous vines, regardless of size, and wood plants, except woody vines, less than approximately (1 m) in height.  Woody vine – All woody vines, regardless of height herbaceous vines, regardless of height herbaceous vines.	DBH). s, less uding y ately 3

Sampling Point: wnok026\_u

Profile Desc	cription: (Describe	to the dep	th needed to docun	nent the ind	licator o	or confirm	the absence	of indicators.)
Depth	Matrix			k Features	_ 1	. 2	_	
(inches)	Color (moist)	<u>%</u>	Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks
0-6	10 YR 3/2	98					SA/LM	
6-15	10 YR 5/4	80					SA/LM	15% 10YR 4/2 matrix
								-
<sup>1</sup> Type: C=C	oncentration, D=Dep	oletion, RM:	=Reduced Matrix, MS	=Masked S	and Gra	ins.		L=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indica	ators for Problematic Hydric Soils <sup>3</sup> :
L Histosol	I (A1)		Dark Surface					cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be				<b>148)</b> $\square$ C	Coast Prairie Redox (A16)
	istic (A3)		Thin Dark Su			47, 148)		(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye		()		<u> </u>	Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Mat					(MLRA 136, 147) 'ery Shallow Dark Surface (TF12)
	uck (A10) <b>(LRR N)</b> d Below Dark Surfac	o (A11)	Redox Dark S Depleted Dar		7)			other (Explain in Remarks)
$=$ $\cdot$	ark Surface (A12)	C (ATT)	Redox Depre		,,			otter (Explain in Nemarks)
	Mucky Mineral (S1) (	LRR N.	Iron-Mangane		(F12) (L	RR N.		
	A 147, 148)		MLRA 130		(· · -/ <b>(</b> -			
	Gleyed Matrix (S4)		Umbric Surfa		LRA 136	6, 122)	<sup>3</sup> Ind	licators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo	odplain Soils	s (F19)	(MLRA 14	<b>8)</b> we	etland hydrology must be present,
	d Matrix (S6)		Red Parent N	laterial (F21	) <b>(</b> MLR	4 127, 147	<b>7)</b> un	less disturbed or problematic.
	Layer (if observed)	:						
Туре: <u>N</u> .	Α							
Depth (in	ches):						Hydric Soil	Present? Yes No No
Remarks:	acree areined o	anda					•	
C	oarse-grained s	anus.						



Upland data point wnok026\_u facing south



Upland data point wnok026\_u facing north



Upland data point wnok026\_u soil sample

Project/Site: Southeast Reliability Project	City/County: NA/Notto	oway	Sampling Date: 8/29/2014
Applicant/Owner: Dominion Transmission	0.0,000.00	State: VA	Sampling Point: wnom001e_w
Investigator(s): S. Grove, E. Bubb	Section, Township, Ran		
Landform (hillslope, terrace, etc.): hillslope/floodplain	Local relief (concave, conve		Slope (%): 8
Subregion (LRR or MLRA): LRR P Lat: 37.1		-77.921201	Datum: NAD1983
Soil Map Unit Name: Durham coarse sandy loam, rolli		NWI classifica	
Are climatic / hydrologic conditions on the site typical for this tin		(If no, explain in Re	
		Normal Circumstances" pi	
	•	•	
Are vegetation, Soil, or nydrology nate	rally problematic? (If flee	eded, explain any answer	s III Reliidiks.)
SUMMARY OF FINDINGS – Attach site map sh	owing sampling point lo	cations, transects,	important features, etc.
Hydrophytic Vegetation Present? Yes No_			
Hydric Soil Present? Yes No	Is the Sampled within a Wetland		] <sub>No</sub>
Wetland Hydrology Present?	<u> </u>		
Remarks:			
Narrow wetland on hillslope along margins of eph	emeral stream snom001	In a nine plantation :	and area of prior harvest
sparse tree-sized overstory canopy. Impacts/ruttir			
dbh. Potential red-cockaded woodpecker habitat			
through 2504 (soil, N, E, S, W).	,	`	
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicat	tors (minimum of two required)
Primary Indicators (minimum of one is required; check all that	t apply)	Surface Soil (	•
	quatic Plants (B14)		etated Concave Surface (B8)
	en Sulfide Odor (C1)	☐ Sparsery veg ☐ Drainage Patt	<b>I</b>
	ed Rhizospheres on Living Roots		
1 <del>_</del>	ce of Reduced Iron (C4)		Vater Table (C2)
	Iron Reduction in Tilled Soils (C		<b>I</b>
	uck Surface (C7)		sible on Aerial Imagery (C9)
	Explain in Remarks)		ressed Plants (D1)
Iron Deposits (B5)	,	Geomorphic F	
Inundation Visible on Aerial Imagery (B7)		Shallow Aquit	
Water-Stained Leaves (B9)		Microtopogra	phic Relief (D4)
Aquatic Fauna (B13)		FAC-Neutral	Test (D5)
Field Observations:			
Surface Water Present? Yes No Depth	(inches):		
	(inches):		
		land Hydrology Present	t? Yes No No
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monitoring well, aer	al photos, previous inspections),	, if available:	
Remarks:			

	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: <u>15 ft</u> )		Species?		Number of Dominant Species
1. 2. Pinus taeda	70	<u>Y</u>	FAC	That Are OBL, FACW, or FAC: / (A)
3				Total Number of Dominant Species Across All Strata:  9 (B)
4				(=,
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 78 (A/B)
6				
	70	= Total Cov	er	Prevalence Index worksheet:
50% of total cover:	20% of	total cover:		
Sapling Stratum (Plot size: 10 ft )				FACW species x 2 =
1. Ulmus americana	10	<u> </u>	FACW	FAC species x 3 =
2				FACU species x 4 =
3				UPL species x 5 =
4				Column Totals: (A) (B)
5				
6	10			Prevalence Index = B/A =
	10	= Total Cov	er	Hydrophytic Vegetation Indicators:
50% of total cover:	20% of	total cover:		1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 10 ft )	10	V	E40	2 - Dominance Test is >50%
1. Liquidambar styraciflua	<u>10</u> 5	· <del>Y</del>	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting
2. Juniperus virginiana 3. Ligistrum vulgare	2	· <u>*</u>	FACU	data in Remarks or on a separate sheet)
4. Diospyros virginiana	3	· ——	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
			170	
5				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
0	20	= Total Cov		be present, unless disturbed or problematic.
500% of total aggert 10				Definitions of Five Vegetation Strata:
		total cover:		Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft )	20% of	total cover:	4	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
Herb Stratum (Plot size: 5 ft)  1. Boehmeria cylindrica				Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
Herb Stratum (Plot size: 5 ft  1. Boehmeria cylindrica 2. Bidens	20% of	total cover:	4 FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft)  1. Boehmeria cylindrica	20% of 15 10	total cover:	FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
Herb Stratum (Plot size: 5 ft  1. Boehmeria cylindrica  2. Bidens  3. Impatiens capensis  4. Persicaria hydropiper  5. Carex intumescense	20% of 15 10 5 3 3	total cover:	FACW FAC FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft  1. Boehmeria cylindrica  2. Bidens  3. Impatiens capensis  4. Persicaria hydropiper	20% of 15 10 5 3	Y Y	FACW FAC FACW OBL	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
Herb Stratum (Plot size: 5 ft  1. Boehmeria cylindrica  2. Bidens  3. Impatiens capensis  4. Persicaria hydropiper  5. Carex intumescense	20% of 15 10 5 3 3	total cover:	FACW FAC FACW OBL OBL	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including
Herb Stratum (Plot size: 5 ft  1. Boehmeria cylindrica  2. Bidens  3. Impatiens capensis  4. Persicaria hydropiper  5. Carex intumescense  6. Polystichum acrostichoides	20% of 15 10 5 3 3 3 3 3	Y Y	FACW FAC FACW OBL OBL FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
Herb Stratum (Plot size: 5 ft  1. Boehmeria cylindrica  2. Bidens  3. Impatiens capensis  4. Persicaria hydropiper  5. Carex intumescense  6. Polystichum acrostichoides  7. Eupatorium perfoliatum	20% of 15 10 5 3 3 3 10	Y Y	FACW FAC FACW OBL OBL FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including
Herb Stratum (Plot size: 5 ft  1. Boehmeria cylindrica  2. Bidens  3. Impatiens capensis  4. Persicaria hydropiper  5. Carex intumescense  6. Polystichum acrostichoides  7. Eupatorium perfoliatum  8.	20% of 15 10 5 3 3 3 10	Y Y	FACW FAC FACW OBL OBL FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft  1. Boehmeria cylindrica  2. Bidens  3. Impatiens capensis  4. Persicaria hydropiper  5. Carex intumescense  6. Polystichum acrostichoides  7. Eupatorium perfoliatum  8.	20% of 15 10 5 3 3 3 10	Y Y	FACW FACW OBL OBL FACU FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3
Herb Stratum (Plot size: 5 ft  1. Boehmeria cylindrica  2. Bidens  3. Impatiens capensis  4. Persicaria hydropiper  5. Carex intumescense  6. Polystichum acrostichoides  7. Eupatorium perfoliatum  8	20% of 15 10 5 3 3 3 10 49	Y Y Y  Total Coversity	FACW FACW OBL OBL FACU FACW OBL FACU FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft  1. Boehmeria cylindrica  2. Bidens  3. Impatiens capensis  4. Persicaria hydropiper  5. Carex intumescense  6. Polystichum acrostichoides  7. Eupatorium perfoliatum  8. 9. 10. 11. 50% of total cover: 24.5	20% of 15 10 5 3 3 3 10 49	Y Y	FACW FACW OBL OBL FACU FACW OBL FACU FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft  1. Boehmeria cylindrica  2. Bidens  3. Impatiens capensis  4. Persicaria hydropiper  5. Carex intumescense  6. Polystichum acrostichoides  7. Eupatorium perfoliatum  8	20% of 15 10 5 3 3 3 10 49 20% of	Y Y Y  Total Coversity	FACW FACW OBL OBL FACU FACW  er 9.8	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft  1. Boehmeria cylindrica  2. Bidens  3. Impatiens capensis  4. Persicaria hydropiper  5. Carex intumescense  6. Polystichum acrostichoides  7. Eupatorium perfoliatum  8	20% of 15 10 5 3 3 3 10 49 20% of 10	Y Y Y  Total Coversity	FACW FACW OBL OBL FACU FACW  9.8	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
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Herb Stratum (Plot size: 5 ft 1. Boehmeria cylindrica 2. Bidens 3. Impatiens capensis 4. Persicaria hydropiper 5. Carex intumescense 6. Polystichum acrostichoides 7. Eupatorium perfoliatum 8. 9. 10. 11. 50% of total cover: 24.5 Woody Vine Stratum (Plot size: 30 ft 1. Smilax rotundifolia 2. Lonicera japonica 3. Campsis radicans	20% of 15 10 5 3 3 3 10	Y Y Y  Total Coversity	FACW FACW OBL OBL FACW FACW OBL FACW FACW FACW FACW FACW FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft  1. Boehmeria cylindrica  2. Bidens  3. Impatiens capensis  4. Persicaria hydropiper  5. Carex intumescense  6. Polystichum acrostichoides  7. Eupatorium perfoliatum  8	20% of 15 10 5 3 3 3 10 49 20% of 10 3	Y Y  Y  Total Cover:  Y  Y  Y  Total Cover:  Y	FACW FACW OBL OBL FACU FACW  9.8	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft 1. Boehmeria cylindrica 2. Bidens 3. Impatiens capensis 4. Persicaria hydropiper 5. Carex intumescense 6. Polystichum acrostichoides 7. Eupatorium perfoliatum 8. 9. 10. 11. 50% of total cover: 24.5 Woody Vine Stratum (Plot size: 30 ft 1. Smilax rotundifolia 2. Lonicera japonica 3. Campsis radicans	20% of 15 10 5 3 3 3 10	Y Y Y  Total Cover: Y  Y  Y  Total Cover: Y  Y	FACW FACW OBL OBL FACU FACW  9.8  FAC FAC FAC FAC FAC FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.
Herb Stratum (Plot size: 5 ft  1. Boehmeria cylindrica  2. Bidens  3. Impatiens capensis  4. Persicaria hydropiper  5. Carex intumescense  6. Polystichum acrostichoides  7. Eupatorium perfoliatum  8. 9. 10. 11. 50% of total cover: 24.5  Woody Vine Stratum (Plot size: 30 ft  1. Smilax rotundifolia  2. Lonicera japonica  3. Campsis radicans  4. Rubus allegheniensis  5.	20% of 15 10 5 3 3 3 10	Y Y  Total Cover: Y  Total Cover: Y  Total Cover: Y	FACW FAC FACU FACU FACW  OBL FACU FACW  FACW  FACW  FACW  FAC FAC FAC FAC FAC FAC FACU  FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.
Herb Stratum (Plot size: 5 ft  1. Boehmeria cylindrica  2. Bidens  3. Impatiens capensis  4. Persicaria hydropiper  5. Carex intumescense  6. Polystichum acrostichoides  7. Eupatorium perfoliatum  8	20% of 15 10 5 3 3 3 10	Y Y Y  Total Cover: Y  Y  Y  Total Cover: Y  Y	FACW FAC FACU FACU FACW  OBL FACU FACW  FACW  FACW  FACW  FAC FAC FAC FAC FAC FAC FACU  FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.  Hydrophytic Vegetation

Sampling Point: wnom001e\_w

SOIL

Profile Desc	ription: (Describe	to the dep	th needed to docun	nent the	indicator	or confirm	the absence	of indicators.)
Depth	Matrix		Redo	x Feature	S			
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-4	10 YR 3/1	90	10YR 5/8	5	<u>C</u>	PL/M	SA/LM	
4-8	10 YR 5/2	85	10 YR 6/4	10	С	M	SA/LM	
8-16	10 YR 6/1	50	10 YR 5/8	30	С	<u>M</u>	SA	15% 10YR 6/3 matrix
			-					
						· ——		
<sup>1</sup> Type: C=Co	oncentration, D=Dep	letion, RM:	=Reduced Matrix, MS	S=Masked	d Sand Gr	ains.	<sup>2</sup> Location: Pl	L=Pore Lining, M=Matrix.
Hydric Soil I								ators for Problematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface					cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be				<b>148)</b> $\square$ C	oast Prairie Redox (A16)
Black His			Thin Dark Su			147, 148)		(MLRA 147, 148)
	n Sulfide (A4) I Layers (A5)		Loamy Gleye Depleted Mat		(F2)		<b>□</b> P	iedmont Floodplain Soils (F19) (MLRA 136, 147)
	ick (A10) (LRR N)		Redox Dark S		-6)		Пу	ery Shallow Dark Surface (TF12)
	d Below Dark Surfac	e (A11)	Depleted Dar					other (Explain in Remarks)
Thick Da	ark Surface (A12)		Redox Depre	ssions (F	8)			·
-	lucky Mineral (S1) (I	_RR N,	☐ Iron-Mangan		es (F12) (	LRR N,		
	147, 148)		MLRA 130	•	/A/II D A 40	oc 400)	31	inches of budges but in a protestion and
	leyed Matrix (S4) edox (S5)		Umbric Surfa Piedmont Flo					icators of hydrophytic vegetation and tland hydrology must be present,
	Matrix (S6)		Red Parent N					less disturbed or problematic.
	ayer (if observed):	:		,	, ,	-		·
Type: NA	Α							
Depth (inc	ches):						Hydric Soil	Present? Yes Vo No
Remarks:							•	



Wetland data point wnom001e\_w facing south



Wetland data point wnom001e\_w facing north



Wetland data point wnom001e\_w soil sample

Project/Site: Southeast Reliability Project	City/County: NA/Nottoway Sampling Date: 8/29/2014
Applicant/Owner: Dominion Transmission	State: VA Sampling Point: wnom001_u
Investigator(s): S. Grove, E. Bubb	Section, Township, Range: NA
•	cal relief (concave, convex, none): concave Slope (%): 20
Subregion (LRR or MLRA): LRR P Lat: 37.119962	
Soil Map Unit Name: Durham coarse sandy loam, rolling pha	NWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time of year	
	disturbed? Are "Normal Circumstances" present? Yes V No
Are Vegetation, Soil, or Hydrology naturally pro	•
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.
Hadankai Vaadai a Baaada Ya 🚺 Na	
Hydrophytic Vegetation Present?  Hydric Soil Present?  Yes No V	Is the Sampled Area within a Wetland? Yes No
Wetland Hydrology Present?	within a wettand:
Remarks:	
	snom001 and wetland wnom001. In a pine plantation and area of
	e remaining trees > 12" dbh. Potential red-cockaded woodpecker
habitat, but not in county identified within RCWO range.	
	<b>,</b> , , , , , , , , , , , , , , , , , ,
LIVEROL OCY	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) True Aquatic P	<u> </u>
High Water Table (A2)  Hydrogen Sulfi	<u> </u>
1 <del></del>	ospheres on Living Roots (C3) Moss Trim Lines (B16)
	educed Iron (C4) Dry-Season Water Table (C2)
Sediment Deposits (B2)  Drift Deposits (B3)  Recent Iron Re Thin Muck Sur	eduction in Tilled Soils (C6)
Algal Mat or Crust (B4)  Other (Explain	
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches	):
Water Table Present? Yes No Depth (inches	s):
Saturation Present? Yes No Depth (inches	): Wetland Hydrology Present? Yes No
(includes capillary fringe)	if a called a
Describe Recorded Data (stream gauge, monitoring well, aerial photo	os, previous inspections), il avaliable:
Remarks:	
nemarks.	

20.4	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft 1.	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC: 6 (A)
2. Pinus taeda	30	Y	FAC	
3				Total Number of Dominant Species Across All Strata: 7 (B)
4				Species Across All Strata.
5				Percent of Dominant Species That Are ORL FACW or FAC: 86 (A/B)
				That Are OBL, FACW, or FAC: 86 (A/B)
6	30	T-1-10		Prevalence Index worksheet:
		= Total Cov		Total % Cover of: Multiply by:
50% of total cover:	20% of	total cover:		OBL species x 1 =
Sapling Stratum (Plot size: 15 ft				FACW species x 2 =
1				
2. Pinus taeda	5	Y	FAC	FAC species x 3 =
3				FACU species x 4 =
4				UPL species x 5 =
5				Column Totals: (A) (B)
6				Prevalence Index = B/A =
	<u>5</u>	= Total Cov	er	Hydrophytic Vegetation Indicators:
50% of total cover:	20% of	total cover:		1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 15 ft )	20,0 0.			2 - Dominance Test is >50%
1 Liquidambar styraciflua	35	Υ	FAC	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2 Juniperus virginiana	5		FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Acer rubrum	10		FAC	data in Remarks or on a separate sheet)
4 Diospyros virginiana	5	. ———	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
·· <u> </u>			170	
5				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
	55	= Total Cov	er	Definitions of Five Vegetation Strata:
50% of total cover: 27.5	20% of	total cover:	11	Tops Manda plants analysis a valuation and a single
Herb Stratum (Plot size: 5 ft )				Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
1. Lespedeza cuneata	5		FACU	(7.6 cm) or larger in diameter at breast height (DBH).
2. Juniperus virginiana	2		FACU	Sonling Woody plants evaluding woody vines
3. Rubus allegheniensis	10	<u> </u>	FACU	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
4. Liquidambar styraciflua	2		FAC	than 3 in. (7.6 cm) DBH.
5. Dicanthelium clandestinum	15	<u>Y</u>	FAC	Shrub Woody plants evaluding woody vines
6.		· <del></del>		Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
0				
1				Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
8				plants, except woody vines, less than approximately 3
9		. ———		ft (1 m) in height.
10				Woody vine – All woody vines, regardless of height.
11				7 woody vines, regulaless of fleight.
	34	= Total Cov	er	
	20% of	total cover:	6.8	
Woody Vine Stratum (Plot size: 30 ft				
1. Smilax rotundifolia	2		FAC	
2. Lonicera japonica	5	<u> Y                                   </u>	<u>FAC</u>	
3. Campsis radicans	5	Υ	FAC	
4				
5				Litter and the state of the sta
	12	= Total Cov	er	Hydrophytic Vegetation
50% of total cover: <u>6</u>	· ·	total cover:		Present? Yes No No
Remarks: (Include photo numbers here or on a separate s		total cover:		1
Open canopy, recent harvest	oneet.)			

Sampling Point: wnom001\_u

Profile Desc	ription: (Describe	to the depth	needed to document the	indicator or confirm	the absence	of indicators.)
Depth	Matrix		Redox Featur	es		
(inches)	Color (moist)	%	Color (moist) %	Type <sup>1</sup> Loc <sup>2</sup>	<u>Texture</u>	Remarks
0-4	10 YR 3/2	98			SA/LM	
4-17	10 YR 6/6	98			SA/LM	faint redox at 14"
		· <del></del> -				
		· —— ·				
		. ——				
	1					
				· —— ——		
<sup>1</sup> Type: C=Co	oncentration, D=Dep	letion, RM=I	Reduced Matrix, MS=Maske	ed Sand Grains.	<sup>2</sup> Location: P	L=Pore Lining, M=Matrix.
Hydric Soil I			, , , , , , , , , , , , , , , , , , , ,		Indica	ators for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		☐ Dark Surface (S7)			cm Muck (A10) (MLRA 147)
=	pipedon (A2)		Polyvalue Below Surf	ace (S8) <b>(MLRA 147</b> .		Coast Prairie Redox (A16)
Black His			Thin Dark Surface (St		140)	(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleyed Matrix		Пр	riedmont Floodplain Soils (F19)
	l Layers (A5)		Depleted Matrix (F3)	(1 2)	<u> </u>	(MLRA 136, 147)
	ck (A10) (LRR N)		Redox Dark Surface	(F6)	Пν	'ery Shallow Dark Surface (TF12)
	d Below Dark Surfac	ρ (Δ11)	Depleted Dark Surface			Other (Explain in Remarks)
_ :	ark Surface (A12)	0 (7111)	Redox Depressions (			valor (Explain in Romano)
	lucky Mineral (S1) <b>(I</b>	RR N	Iron-Manganese Mas			
-	147, 148)	_1111 14,	MLRA 136)	303 (1 12) <b>(EIIII II,</b>		
	leyed Matrix (S4)		Umbric Surface (F13)	(MI RA 136 122)	3Ind	icators of hydrophytic vegetation and
	edox (S5)		Piedmont Floodplain			etland hydrology must be present,
	Matrix (S6)		Red Parent Material (			less disturbed or problematic.
	ayer (if observed):		rear arent material (	1 2 1) (WILITA 121, 141	T un	icas disturbed or problematic.
Type: NA						
Depth (inc			_		Hydric Soil	Present? Yes No V
•			<del>_</del>		Tiyunc 30ii	Fresent: res No No
Remarks:	ose, sandy dry s	oils. Bare	ly able to pull soil sam	nple.		
	,,,		.,			



Upland data point wnom001\_u facing south



Upland data point wnom001\_u facing North



Upland data point wnom001\_u soil sample

Project/Site: Southeast Reliability Project	City/County: NA/Nottoway	Sampling Date: 8/30/2014
Applicant/Owner: Dominion Transmission	State: VA	Sampling Point: wnom002e_w
Investigator(s): S. Grove, E. Bubb	Section, Township, Range: NA	
Landform (hillslope, terrace, etc.): toe of slopes	Local relief (concave, convex, none): concave	Slope (%): 3
Subregion (LRR or MLRA): LRR P Lat:	37.118650 Long: -77.916053	Datum: NAD1983
Soil Map Unit Name: Louisburg sandy loam, eroc		sification: NA
Are climatic / hydrologic conditions on the site typical for		
Are Vegetation Soil , or Hydrology	significantly disturbed? Are "Normal Circumstance	
Are Vegetation Soil , or Hydrology	naturally problematic? (If needed, explain any an	
,,	<b></b>	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
SUMMARY OF FINDINGS – Attach site ma	p showing sampling point locations, transe	cts, important features, etc.
Hydrophytic Vegetation Present? Yes	No Sampled Area	
Hydric Soil Present? Yes	No Is the Sampled Area within a Wetland?	V No
Wetland Hydrology Present?	No	
Remarks:		
	osing slopes (35% & 20% slopes), hydrologic in	out also from upstream
pond.	oomig olopoo (oo /o a zo /o olopoo), myalologio iii	par also nom aponoam
Photos: 2516 through 2520 (soil, N, E, S, W)		
HYDROLOGY		
Wetland Hydrology Indicators:	Secondary In	dicators (minimum of two required)
Primary Indicators (minimum of one is required; check	all that apply) Surface S	Soil Cracks (B6)
Surface Water (A1)	rue Aquatic Plants (B14) Sparsely	Vegetated Concave Surface (B8)
High Water Table (A2)	lydrogen Sulfide Odor (C1)    Drainage	Patterns (B10)
Saturation (A3)	Oxidized Rhizospheres on Living Roots (C3) Moss Tri	m Lines (B16)
Water Marks (B1)	Presence of Reduced Iron (C4) Dry-Seas	son Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reduction in Tilled Soils (C6)	Burrows (C8)
Drift Deposits (B3)	hin Muck Surface (C7)	n Visible on Aerial Imagery (C9)
I <del> </del>	·	or Stressed Plants (D1)
Iron Deposits (B5)	·	phic Position (D2)
Inundation Visible on Aerial Imagery (B7)		Aquitard (D3)
Water-Stained Leaves (B9)		ographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neu	ıtral Test (D5)
Field Observations:		
	Depth (inches):	
	Depth (inches):	
Saturation Present? Yes	Depth (inches): 0 Wetland Hydrology Pre	esent? Yes No No
Describe Recorded Data (stream gauge, monitoring we	ell, aerial photos, previous inspections), if available:	
NA		
Remarks:		
Saturated to surface. Flow from upstream po	ond/rain event previous day.	
,	, , , , , , , , , , , , , , , , , , , ,	

Sampling Point: wnom002e\_w

00.5	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 20 ft )	% Cover	Species?	<u>Status</u>	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 8 (A)
2				Tatal Namban of Dani's and
3				Total Number of Dominant Species Across All Strata:  8 (B)
				Species Across All Strata.
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100 (A/B)
6				Dravalance Index worksheet.
		= Total Co	ver	Prevalence Index worksheet:
50% of total cover:	20% of	f total cover	r:	Total % Cover of: Multiply by:
Sapling Stratum (Plot size: 15 ft )		total ooto.		OBL species x 1 =
				FACW species x 2 =
1				FAC species x 3 =
2				FACU species x 4 =
3		,		UPL species x 5 =
4				Column Totals: (A) (B)
5				Column rotals: (A) (B)
6				Prevalence Index = B/A =
, s. <u> </u>		= Total Co		Hydrophytic Vegetation Indicators:
				1
50% of total cover:	20% of	f total cover	r:	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 15 ft )				2 - Dominance Test is >50%
1. Liriodendron tuliperfera	5	Υ	FAC	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Alnus serrulata	5	Y	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3				data in Remarks or on a separate sheet)
				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
4				
5				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
	10	Takal Ca		
		= Total Co	ver	Definitions of Five Vegetation Strata:
50% of total cover: 5				Definitions of Five Vegetation Strata:
50% of total cover: 5				Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft )	20% of		r:	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
Herb Stratum (Plot size: 5 ft <sub>1.</sub> Impatiens capensis	20% of	f total cover	FACW	Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft  1. Impatiens capensis  2. Boehmeria cylindrica	20% of 3	f total cover	FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft  1. Impatiens capensis 2. Boehmeria cylindrica 3. Bidens	20% of 5 5	f total cover	FACW FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
Herb Stratum (Plot size: 5 ft  1. Impatiens capensis  2. Boehmeria cylindrica	20% of 3	f total cover	FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft  1. Impatiens capensis 2. Boehmeria cylindrica 3. Bidens	20% of 5 5	f total cover	FACW FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
Herb Stratum (Plot size: 5 ft  1. Impatiens capensis 2. Boehmeria cylindrica 3. Bidens 4. Osmunda cinnemomea 5. Sambucus canadensis	20% of 5 5 5 1	f total cover	FACW FACW FAC FACW NI	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
Herb Stratum (Plot size: 5 ft  1. Impatiens capensis 2. Boehmeria cylindrica 3. Bidens 4. Osmunda cinnemomea 5. Sambucus canadensis 6. Carex lurida	20% of 5 5 5 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	f total cover	FACW FACW FAC FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
Herb Stratum (Plot size: 5 ft  1. Impatiens capensis 2. Boehmeria cylindrica 3. Bidens 4. Osmunda cinnemomea 5. Sambucus canadensis 6. Carex lurida 7. Persecaria hydropiper	20% of 5 5 5 1	f total cover	FACW FACW FAC FACW NI	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including
Herb Stratum (Plot size: 5 ft  1. Impatiens capensis 2. Boehmeria cylindrica 3. Bidens 4. Osmunda cinnemomea 5. Sambucus canadensis 6. Carex lurida	20% of 5 5 5 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	f total cover	FACW FACW FAC FACW NI	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
Herb Stratum (Plot size: 5 ft  1. Impatiens capensis 2. Boehmeria cylindrica 3. Bidens 4. Osmunda cinnemomea 5. Sambucus canadensis 6. Carex lurida 7. Persecaria hydropiper	20% of 5 5 5 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	f total cover	FACW FACW FAC FACW NI	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including
Herb Stratum (Plot size: 5 ft  1. Impatiens capensis 2. Boehmeria cylindrica 3. Bidens 4. Osmunda cinnemomea 5. Sambucus canadensis 6. Carex lurida 7. Persecaria hydropiper 8 9	20% of 5 5 5 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	f total cover	FACW FACW FAC FACW NI	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft  1. Impatiens capensis 2. Boehmeria cylindrica 3. Bidens 4. Osmunda cinnemomea 5. Sambucus canadensis 6. Carex lurida 7. Persecaria hydropiper 8.	20% of 5 5 5 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	f total cover	FACW FACW FAC FACW NI	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3
Herb Stratum (Plot size: 5 ft  1. Impatiens capensis  2. Boehmeria cylindrica  3. Bidens  4. Osmunda cinnemomea  5. Sambucus canadensis  6. Carex lurida  7. Persecaria hydropiper  8  9  10	20% of 5 5 5 1 5 3 3	Y Y Y	FACW FACW FAC FACW NI OBL	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft  1. Impatiens capensis 2. Boehmeria cylindrica 3. Bidens 4. Osmunda cinnemomea 5. Sambucus canadensis 6. Carex lurida 7. Persecaria hydropiper 8 9 10 11	20% of 3 5 5 5 1 5 3 3 3 3 3 3 3 3 3	Total cover	FACW FACW FACW NIOBL	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft  1. Impatiens capensis  2. Boehmeria cylindrica  3. Bidens  4. Osmunda cinnemomea  5. Sambucus canadensis  6. Carex lurida  7. Persecaria hydropiper  8  9  10  11  50% of total cover: 16	20% of 3 5 5 5 1 5 3 3 3 3 3 3 3 3 3	Y Y Y	FACW FACW FACW NIOBL	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft  1. Impatiens capensis  2. Boehmeria cylindrica  3. Bidens  4. Osmunda cinnemomea  5. Sambucus canadensis  6. Carex lurida  7. Persecaria hydropiper  8  9  10  11  Woody Vine Stratum (Plot size: 30 ft )	20% of 3 5 5 5 1 5 3 3 3 20% of 9	Y Y Y  = Total Cover	FACW FAC FACW NI OBL	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft  1. Impatiens capensis  2. Boehmeria cylindrica  3. Bidens  4. Osmunda cinnemomea  5. Sambucus canadensis  6. Carex lurida  7. Persecaria hydropiper  8. 9. 10. 11. 50% of total cover: 16  Woody Vine Stratum (Plot size: 30 ft )  1. Lonicera japonica	20% of	Y Y Y = Total Cover	FACW FACW FACW NIOBL	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft  1. Impatiens capensis  2. Boehmeria cylindrica  3. Bidens  4. Osmunda cinnemomea  5. Sambucus canadensis  6. Carex lurida  7. Persecaria hydropiper  8  9  10  11  Woody Vine Stratum (Plot size: 30 ft )	20% of 3 5 5 5 1 5 3 3 3 20% of 9	Y Y Y  = Total Cover	FACW FAC FACW NI OBL	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft  1. Impatiens capensis  2. Boehmeria cylindrica  3. Bidens  4. Osmunda cinnemomea  5. Sambucus canadensis  6. Carex lurida  7. Persecaria hydropiper  8. 9. 10. 11. 50% of total cover: 16  Woody Vine Stratum (Plot size: 30 ft )  1. Lonicera japonica	20% of	Y Y Y = Total Cover	FACW FAC FACW NI OBL  over 6.4 FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft  1. Impatiens capensis  2. Boehmeria cylindrica  3. Bidens  4. Osmunda cinnemomea  5. Sambucus canadensis  6. Carex lurida  7. Persecaria hydropiper  8. 9. 10. 11. 50% of total cover: 16  Woody Vine Stratum (Plot size: 30 ft )  1. Lonicera japonica  2. Smilax rotundifolia  3. Vitis rotundifolia	20% of 3	Y Y Y = Total Cover	FACW FACW FACW NI OBL  ver f. 6.4  FAC FAC FAC FAC FAC FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft  1. Impatiens capensis  2. Boehmeria cylindrica  3. Bidens  4. Osmunda cinnemomea  5. Sambucus canadensis  6. Carex lurida  7. Persecaria hydropiper  8. 9. 10. 11. 50% of total cover: 16  Woody Vine Stratum (Plot size: 30 ft  1. Lonicera japonica  2. Smilax rotundifolia  3. Vitis rotundifolia  4. Vitis aestivalis	20% of 3	Y Y Y = Total Cover	FACW FACW FACW NI OBL OBL Ver 6.4  FAC FAC FAC FAC FAC FAC FAC FAC FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft  1. Impatiens capensis  2. Boehmeria cylindrica  3. Bidens  4. Osmunda cinnemomea  5. Sambucus canadensis  6. Carex lurida  7. Persecaria hydropiper  8. 9. 10. 11. 50% of total cover: 16  Woody Vine Stratum (Plot size: 30 ft )  1. Lonicera japonica  2. Smilax rotundifolia  3. Vitis rotundifolia	20% of	Total cover	FACW FACW FACW NIOBL OBL FAC FAC FAC FAC FAC FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.
Herb Stratum (Plot size: 5 ft  1. Impatiens capensis  2. Boehmeria cylindrica  3. Bidens  4. Osmunda cinnemomea  5. Sambucus canadensis  6. Carex lurida  7. Persecaria hydropiper  8	20% of	Total Cover	FACW FACW FACW NI OBL OBL Ver FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.
Herb Stratum (Plot size: 5 ft  1. Impatiens capensis  2. Boehmeria cylindrica  3. Bidens  4. Osmunda cinnemomea  5. Sambucus canadensis  6. Carex lurida  7. Persecaria hydropiper  8. 9. 10. 11. 50% of total cover: 16  Woody Vine Stratum (Plot size: 30 ft  1. Lonicera japonica  2. Smilax rotundifolia  3. Vitis rotundifolia  4. Vitis aestivalis	20% of	Total cover	FACW FACW FACW NI OBL OBL Ver FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.
Herb Stratum (Plot size: 5 ft  1. Impatiens capensis  2. Boehmeria cylindrica  3. Bidens  4. Osmunda cinnemomea  5. Sambucus canadensis  6. Carex lurida  7. Persecaria hydropiper  8	20% of	Total Cover	FACW FACW FACW NI OBL OBL Ver FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.

Sampling Point: wnom002e\_w

Profile Desc	ription: (Describe	to the dep	th needed to docur	nent the i	ndicator	or confirm	the absence	of indicators.)
Depth	Matrix		Redo	x Feature	S			
(inches)	Color (moist)	<u>%</u>	Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks
0-4	10 YR 3/1	80	7.5 YR 4/6	25	<u>C</u>	PL/M	CL/LM	
4-11	10 YR 6/1	65	7.5 YR 4/6	10	С	M	CL/LM	25% 7.5 YR 4/1 matrix
11-17	Gley 1 5/10Y	98					CL/LM	
		· ——						
		· ——						
		· ——						
		letion, RM	=Reduced Matrix, MS	S=Maskec	d Sand Gra	ains.		L=Pore Lining, M=Matrix.
Hydric Soil I				(0=)				ators for Problematic Hydric Soils <sup>3</sup> :
Histosol	• •		☐ Dark Surface☐ Polyvalue Be		(CO) <b>(N</b>	II DA 147		cm Muck (A10) (MLRA 147)
Black His	nipedon (A2)		Thin Dark Su				148) (	Coast Prairie Redox (A16) (MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye			47, 140)	ПР	Piedmont Floodplain Soils (F19)
	Layers (A5)		Depleted Ma		/			(MLRA 136, 147)
2 cm Mu	ck (A10) (LRR N)		Redox Dark		<sup>-</sup> 6)			ery Shallow Dark Surface (TF12)
	l Below Dark Surfac	e (A11)	Depleted Da				$\square$ C	Other (Explain in Remarks)
	rk Surface (A12)		Redox Depre					
	lucky Mineral (S1) (I	_RR N,	☐ Iron-Mangan		es (F12) <b>(</b> I	LRR N,		
	<b>147, 148)</b> leyed Matrix (S4)		MLRA 13  Umbric Surfa		(MI DA 12	6 122)	<sup>3</sup> Ind	licators of hydrophytic vegetation and
	edox (S5)		Piedmont Flo					etland hydrology must be present,
	Matrix (S6)		Red Parent N					less disturbed or problematic.
	ayer (if observed):							
Type: NA	4							
Depth (inc	ches):						Hydric Soil	Present? Yes 🔽 No 🔲
Remarks:	ot noor watland	oontor d	ue to narrow sha	no/oi=o			•	
FI	ot near wettand	center u	ue to namow sna	pe/size.				



Wetland data point wnom002e\_w facing south



Wetland data point wnom002e\_w facing north



Wetland data point wnom002e\_w soil sample

Project/Site: Southeast Reliability Project	City/County: NA/Nottoway Sampling Date: 8/30/2014
Applicant/Owner: Dominion Transmission	State: VA Sampling Point: wnom002_u
Investigator(s): S. Grove, E. Bubb	Section, Township, Range: NA
Landform (hillslope, terrace, etc.): hillslope	ocal relief (concave, convex, none): concave Slope (%): 20
Subregion (LRR or MLRA): LRR P Lat: 37.11869	7 Long: -77.915792 Datum: NAD1983
Soil Map Unit Name: Louisburg sandy loam, eroded rolling p	
Are climatic / hydrologic conditions on the site typical for this time of ye	
Are Vegetation Soil , or Hydrology significantly	y disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation Soil , or Hydrology naturally pr	oblematic? (If needed, explain any answers in Remarks.)
<del></del>	
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No V	
Hydrophytic Vegetation Present?  Hydric Soil Present?  Yes No V	Is the Sampled Area within a Wetland? Yes No
Wetland Hydrology Present?	within a wettand:
Remarks:	•
	d in low-lying drainage off upslope pond. Photos: 2522 through
2526 (soil, N, E, S, W)	a in low-lying drainage on apsiope pond. I notes. 2022 through
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) True Aquatic F	_ · · · · ·
High Water Table (A2)  Hydrogen Sulf	
<u> </u>	ospheres on Living Roots (C3) Moss Trim Lines (B16)
	educed Iron (C4)  Dry-Season Water Table (C2)
	eduction in Tilled Soils (C6) Crayfish Burrows (C8)
Drift Deposits (B3)	
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aguitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches	s):
Water Table Present? Yes No Depth (inches	
Saturation Present? Yes No Depth (inches	s): Wetland Hydrology Present? Yes No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial phot	os, previous inspections), ir available:
NA	
Remarks:	

Sampling Point: wnom002\_u

20 <del>t</del>	Absolute	Dominant		Dominance Test worksheet:	
Tree Stratum (Plot size: 30 ft )		Species?		Number of Dominant Species	
1. Quercus alba	10		FACU	That Are OBL, FACW, or FAC: 3 (A)	)
2. Liriodenderon tulipifera	10		FACU	Total Number of Dominant _	
3. Quercus rubra	15	<u>Y</u>	FACU	Species Across All Strata: 7 (B)	)
4. Acer rubrum	25	<u>Y</u>	<u>FAC</u>	Percent of Dominant Species	
5				That Are OBL, FACW, or FAC: 43 (A)	/B)
6				Prevalence Index worksheet:	
	60	= Total Cov	er	Total % Cover of: Multiply by:	
50% of total cover: <u>30</u>	20% of	total cover:	12		
Sapling Stratum (Plot size: 15 ft )				OBL species x 1 = x 2	
1. Acer rubrum	5	Υ	FAC	FACW species x 2 =	
2				FAC species x 3 =	
3				FACU species x 4 =	
4				UPL species x 5 =	
5.				Column Totals: (A) (E	В)
6				Prevalence Index = B/A =	
<u> </u>	5	= Total Cov	er	Hydrophytic Vegetation Indicators:	
				1 - Rapid Test for Hydrophytic Vegetation	
50% of total cover:	20% of	total cover:		2 - Dominance Test is >50%	
Shrub Stratum (Plot size: 15 ft)	45	V	FAOLI		
1. Fagus grandifolia		<u>Y</u>		3 - Prevalence Index is ≤3.0 <sup>1</sup>	
2				4 - Morphological Adaptations <sup>1</sup> (Provide support data in Remarks or on a separate sheet)	ing
3				Problematic Hydrophytic Vegetation (Explain)	
4				Problematic Trydrophytic Vegetation (Explain)	
5				<sup>1</sup> Indicators of hydric soil and wetland hydrology must	
6				be present, unless disturbed or problematic.	L
	15	= Total Cov	or		
		- 10ta 00v	CI	1 Definitions of Five Vegetation Strata:	
50% of total cover:				Definitions of Five Vegetation Strata:	
50% of total cover:				Tree – Woody plants, excluding woody vines,	
Herb Stratum (Plot size: 5 ft )	20% of			Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.	
Herb Stratum (Plot size: 5 ft 1. Liriodendron tuliperfera	20% of	total cover:	FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH)	
Herb Stratum (Plot size: 5 ft  1. Liriodendron tuliperfera  2. Vaccinium angustifolium	20% of 2 5		FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH)  Sapling – Woody plants, excluding woody vines,	
Herb Stratum (Plot size: 5 ft  1. Liriodendron tuliperfera  2. Vaccinium angustifolium  3. Aralia nudicalis	20% of	total cover:	FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH)  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less	
Herb Stratum (Plot size: 5 ft  1. Liriodendron tuliperfera  2. Vaccinium angustifolium	20% of 2 5	total cover:	FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH)  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.	
Herb Stratum (Plot size: 5 ft  1. Liriodendron tuliperfera  2. Vaccinium angustifolium  3. Aralia nudicalis  4.  5.	20% of 2 5	total cover:	FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH)  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines,	
Herb Stratum (Plot size: 5 ft  1. Liriodendron tuliperfera  2. Vaccinium angustifolium  3. Aralia nudicalis	20% of 2 5	total cover:	FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH)  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.	
Herb Stratum (Plot size: 5 ft  1. Liriodendron tuliperfera  2. Vaccinium angustifolium  3. Aralia nudicalis  4	20% of 2 5 2 2	Y Y	FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH)  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including	
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Herb Stratum (Plot size: 5 ft  1. Liriodendron tuliperfera  2. Vaccinium angustifolium  3. Aralia nudicalis  4	20% of 2 5 2 2	Y Y	FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH)  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including	
Herb Stratum (Plot size: 5 ft  1. Liriodendron tuliperfera  2. Vaccinium angustifolium  3. Aralia nudicalis  4	20% of 2 5 2	Y	FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH)  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately ft (1 m) in height.	3
Herb Stratum (Plot size: 5 ft  1. Liriodendron tuliperfera  2. Vaccinium angustifolium  3. Aralia nudicalis  4	20% of 2 5 2	Y	FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH)  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately	3
Herb Stratum (Plot size: 5 ft  1. Liriodendron tuliperfera  2. Vaccinium angustifolium  3. Aralia nudicalis  4.	2 5 2 2	Y	FACU FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH)  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately ft (1 m) in height.	3
Herb Stratum (Plot size: 5 ft  1. Liriodendron tuliperfera  2. Vaccinium angustifolium  3. Aralia nudicalis  4	20% of 2 5 2	Y  Total Covers	FACU FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH)  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately ft (1 m) in height.	3
Herb Stratum (Plot size: 5 ft  1. Liriodendron tuliperfera  2. Vaccinium angustifolium  3. Aralia nudicalis  4	20% of 2 5 2	Y Y	FACU FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH)  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately ft (1 m) in height.	3
Herb Stratum (Plot size: 5 ft  1. Liriodendron tuliperfera  2. Vaccinium angustifolium  3. Aralia nudicalis  4	20% of 2 5 2	Y  Total Covers	FACU FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH)  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately ft (1 m) in height.	3
Herb Stratum (Plot size: 5 ft)  1. Liriodendron tuliperfera  2. Vaccinium angustifolium  3. Aralia nudicalis  4	20% of 2 5 2	Y  = Total Cover:	FACU FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH)  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately ft (1 m) in height.	3
Herb Stratum (Plot size: 5 ft  1. Liriodendron tuliperfera  2. Vaccinium angustifolium  3. Aralia nudicalis  4.	20% of 2 5 2 9 20% of 2	Y  = Total Cover: Y	FACU FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH)  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately ft (1 m) in height.	3
Herb Stratum (Plot size: 5 ft)  1. Liriodendron tuliperfera  2. Vaccinium angustifolium  3. Aralia nudicalis  4	9 20% of 2 2 2	Total Covers	FACU FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH)  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately ft (1 m) in height.	3
Herb Stratum (Plot size: 5 ft  1. Liriodendron tuliperfera  2. Vaccinium angustifolium  3. Aralia nudicalis  4.	9 20% of 2 2 2	Total Covers	FACU FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH)  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately ft (1 m) in height.	3
Herb Stratum (Plot size: 5 ft)  1. Liriodendron tuliperfera  2. Vaccinium angustifolium  3. Aralia nudicalis  4	20% of 2 5 2 9 20% of 2 2 2	Total Cover:  Y  Total Cover:  Y  Y  Y  Y	FACU FACU FACU FACU FACU FACU FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH)  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately ft (1 m) in height.  Woody vine – All woody vines, regardless of height.	3
Herb Stratum (Plot size: 5 ft)  1. Liriodendron tuliperfera  2. Vaccinium angustifolium  3. Aralia nudicalis  4	20% of 2 5 2 9 20% of 2 2 2	Total Covers	FACU FACU FACU FACU FACU FACU FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH)  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately ft (1 m) in height.  Woody vine – All woody vines, regardless of height.	3
Herb Stratum (Plot size: 5 ft)  1. Liriodendron tuliperfera  2. Vaccinium angustifolium  3. Aralia nudicalis  4	9 20% of 2 2 2 4	Total Covers  Y  Total Covers  Y  Y  Total Covers  Y  Y  Total Covers	FACU FACU FACU FACU FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH)  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately ft (1 m) in height.  Woody vine – All woody vines, regardless of height.	3
Herb Stratum (Plot size: 5 ft)  1. Liriodendron tuliperfera  2. Vaccinium angustifolium  3. Aralia nudicalis  4	20% of 2 5 2 9 20% of 2 2 2 4 20% of 4	Total Covers  Y  Total Covers  Y  Y  Total Covers  Y  Y  Total Covers	FACU FACU FACU FACU FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH)  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately ft (1 m) in height.  Woody vine – All woody vines, regardless of height.	3

Sampling Point: wnom002\_u

Profile Desc	cription: (Describe	to the dep	th needed to docun	nent the indica	tor or confirm	the absence o	f indicators.)
Depth	Matrix			x Features	1 3	_	_
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u> <u>Typ</u>	pe <sup>1</sup> Loc <sup>2</sup>	<u>Texture</u>	Remarks
0-4	10 YR 5/8	98				SA/LM	
4-16	10 YR 6/8	98				SA/LM	
	-						
							-
							_
<sup>1</sup> Type: C=C	oncentration, D=Dep	letion, RM	=Reduced Matrix, MS	S=Masked Sand	d Grains.	<sup>2</sup> Location: PL=	Pore Lining, M=Matrix.
Hydric Soil		,	,				ors for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Dark Surface	(S7)		☐ 2 C	m Muck (A10) <b>(MLRA 147)</b>
	oipedon (A2)			low Surface (S	B) <b>(MLRA 147</b> ,		ast Prairie Redox (A16)
■ Black H	istic (A3)			rface (S9) <b>(MLI</b>	RA 147, 148)	_ (	MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye				dmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Mat				MLRA 136, 147)
	uck (A10) (LRR N)	4	Redox Dark S				ry Shallow Dark Surface (TF12)
	d Below Dark Surfac	e (A11)		k Surface (F7)		Otr	ner (Explain in Remarks)
	ark Surface (A12) ⁄lucky Mineral (S1) <b>(</b>	I DD N	Redox Depre	essions (F8) ese Masses (F1	12) (LDD N		
	A 147, 148)	LKK N,	MLRA 130		12) (LRR N,		
	Gleyed Matrix (S4)			ce (F13) <b>(MLR</b> /	A 136 122)	<sup>3</sup> Indic	ators of hydrophytic vegetation and
	Redox (S5)			odplain Soils (F			and hydrology must be present,
	l Matrix (S6)			Material (F21) (N			ss disturbed or problematic.
Restrictive	Layer (if observed)	:					·
Type: N	A						
Depth (in	ches):					Hydric Soil P	Present? Yes No V
Remarks:						1	



Upland data point wnom002\_u facing north



Upland data point wnom002\_u facing south



Upland data point wnom002\_u soil sample

Project/Site: Southeast Reliability Project	City/County: NA/Nottoway Sampling Date: 8/30/2014
Applicant/Owner: Dominion Transmission	State: VA Sampling Point: wnom003f_
	Section, Township, Range: NA
	cal relief (concave, convex, none): concave Slope (%): 20
Subregion (LRR or MLRA): LRR P Lat: 37.118490	Long:77.914506 Datum: NAD1983
Soil Map Unit Name: Mixed alluvial land, poorly drained, frequency	uently flooded NWI classification: PFO1C
Are climatic / hydrologic conditions on the site typical for this time of year	
Are Vegetation Soil , or Hydrology significantly	disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation Soil , or Hydrology naturally pro	blematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	sampling point locations, transects, important features, etc. $ \\$
Hydrophytic Vegetation Present?  Yes No No	
Hydric Soil Present?  Yes No	Is the Sampled Area within a Wetland? Yes No
Wetland Hydrology Present?	100 <u>110 110 110 110 110 110 110 110 110</u>
Remarks:	
	Lakes and at toe of 20% slopes. Extensive complex extends
` , , .	e pond and follows south edge of ROW. Also associated with
ephemeral stream snom003. Photos: 2534 through 253	8 (soil, N, E, S, W)
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)  True Aquatic Pla	
High Water Table (A2)  Hydrogen Sulfice	<u> </u>
	spheres on Living Roots (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of Re	· <u>=</u>
	duction in Tilled Soils (C6)
Drift Deposits (B3)	ace (C7) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Other (Explain i	n Remarks) Stunted or Stressed Plants (D1)
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches)	
Water Table Present? Yes No Depth (inches)	
Saturation Present? Yes No Depth (inches) (includes capillary fringe)	: 0 Wetland Hydrology Present? Yes V No No
Describe Recorded Data (stream gauge, monitoring well, aerial photo	s, previous inspections), if available:
NA	
Remarks:	
Saturated to surface in some areas. Flow in stream from	upstream pond/rain event previous day.

20.5	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft )		Species?		Number of Dominant Species
1. Acer rubrum	50	$\frac{Y}{Y}$	FAC	That Are OBL, FACW, or FAC: 10 (A)
2. Liriodenderon tulipifera	25	<u>Y</u>	FACU	Total Number of Dominant
3. Fagus grandifolia	5			Species Across All Strata: 12 (B)
4. Quercus phellos	5			Percent of Dominant Species
5. Quercus rubra	20			That Are OBL, FACW, or FAC: 83 (A/B)
6				Prevalence Index worksheet:
	105	= Total Cov	er	Total % Cover of: Multiply by:
50% of total cover: <u>52.5</u>	20% of	total cover:	21	
Sapling Stratum (Plot size: 15 ft				OBL species x 1 =
1. Carpinus caroliniana	35	Υ	FAC	FACW species x 2 =
2. Acer rubrum	15	Y	FAC	FAC species x 3 =
3				FACU species x 4 =
4				UPL species x 5 =
5				Column Totals: (A) (B)
6				Prevalence Index = B/A =
<u> </u>	50	Total Cov		Hydrophytic Vegetation Indicators:
25				1 - Rapid Test for Hydrophytic Vegetation
50% of total cover: <u>25</u>	20% of	total cover:	10	2 - Dominance Test is >50%
Shrub Stratum (Plot size: 15 ft	_	V	EAC	2 - Dominance Test is >50%  3 - Prevalence Index is ≤3.0¹
1. Liriodendron tuliperfera	5	Y	FAC	l <del></del>
2. Alnus serrulata	5	Y	OBL	4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
3				Problematic Hydrophytic Vegetation (Explain)
4				Trobiomatic rigarophytic vogotation (Explain)
5				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
	10	= Total Cov	er	Definitions of Five Vegetation Strata:
50% of total cover: <u>5</u>	20% of	total cover:		
Herb Stratum (Plot size: 5 ft )				Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
1. Parathelypteris noveboracensis	5	Υ	FAC	(7.6 cm) or larger in diameter at breast height (DBH).
2. Carex frankii	5	Y	OBL	Conline Woody plants evaluding woody vines
3. Trientalis borealis	3	Y	FAC	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
4. Carpinus caroliniana	3	$\overline{Y}$	FAC	than 3 in. (7.6 cm) DBH.
5. Polystichum acrostichoides	3	$\overline{Y}$	FACU	Shrub – Woody plants, excluding woody vines,
6. Spahgnum (10%)				approximately 3 to 20 ft (1 to 6 m) in height.
7				Hark All hark account (non-vision), plants including
0				Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
8				plants, except woody vines, less than approximately 3
9				ft (1 m) in height.
10				Woody vine – All woody vines, regardless of height.
11	24			
40		= Total Cov		
	20% of	total cover:	4.8	
Woody Vine Stratum (Plot size: 30 ft )				
1. Lonicera japonica	10	<u>Y</u>	<u>FAC</u>	
2. Toxicodendron radicans	2		<u>FAC</u>	
3. Campsis radicans	2		FAC	
4				
5			FAC	Hydrophytic
		_		Hydrophytic
	14	= Total Cov	er	Vegetation
50% of total cover 7				Vegetation Present? Yes No No
	20% of	= Total Cov total cover:		
50% of total cover: 7  Remarks: (Include photo numbers here or on a separate s 5% grasses no fruits; no ID.	20% of			

Sampling Point: wnom003f\_w

Profile Desc	ription: (Describe	to the de	oth needed to docur	nent the	indicator	or confirm	the absence	of indicators.)
Depth	Matrix		Redo	x Feature	es			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks
0-5	10 YR 4/2	95	7.5 YR 5/6	3	С	M	LM	
5-12	10 YR 5/1	70	7.5 YR 5/6	20	С	PL/M	SA/LM	10% 10 YR 6/2 matrix
					· <u> </u>			
		. ——						
		· ——						
		letion, RM	=Reduced Matrix, MS	S=Maske	d Sand Gr	ains.		L=Pore Lining, M=Matrix.
Hydric Soil	ndicators:						Indic	ators for Problematic Hydric Soils <sup>3</sup> :
L Histosol	(A1)		Dark Surface					cm Muck (A10) (MLRA 147)
Histic Ep	oipedon (A2)		Polyvalue Be				148)	Coast Prairie Redox (A16)
Black Hi			Thin Dark Su			147, 148)		(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye		(F2)		<u> </u>	Piedmont Floodplain Soils (F19)
	l Layers (A5)		Depleted Ma					(MLRA 136, 147)
	ck (A10) (LRR N)	4	Redox Dark					/ery Shallow Dark Surface (TF12)
_ :	d Below Dark Surfac	e (A11)	Depleted Da					Other (Explain in Remarks)
	ark Surface (A12)	DD N	Redox Depre			L DD M		
	lucky Mineral (S1) <b>(I</b>	_RR N,	Iron-Mangan		ses (F12) (	LRK N,		
	<b>A 147, 148)</b> sleyed Matrix (S4)		MLRA 13  Umbric Surfa		(MI DA 12	C 122)	3Ind	licators of hydrophytic vegetation and
	edox (S5)		Piedmont Flo					etland hydrology must be present,
	Matrix (S6)		Red Parent N					less disturbed or problematic.
	ayer (if observed):		rear archer	viatoriai (i	Z I) (IVILIV	A 127, 147	,, un	iless disturbed of problematic.
Type: NA								
, , <del></del>							Libratuia Cail	Present? Yes V No No
Depth (ind	ines):						Hydric Soil	Present? Yes No
Remarks: NI	RCS soil class is	associa	ated with floodpla	ins				



Wetland data point wnom003f\_w facing north



Wetland data point wnom003f\_w facing north



Wetland data point wnom003f\_w soil sample

Project/Site: Southeast Reliability Project	City/County: NA/Nottoway Sampling Date: 8/30/2014
Applicant/Owner: Dominion Transmission	State: VA Sampling Point: wnom003_u
Investigator(s): S. Grove, E. Bubb	Section, Township, Range: NA
•	cal relief (concave, convex, none): concave Slope (%): 20
Subregion (LRR or MLRA): LRR P Lat: 37.124350	
Soil Map Unit Name: Appling coarse sandy loam, eroded rol	ling phase, well-drained NWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time of year	
	disturbed? Are "Normal Circumstances" present? Yes V No
Are Vegetation Soil , or Hydrology naturally pro	
5 <u> </u>	
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vagatation Present?	
Hydrophytic Vegetation Present?  Hydric Soil Present?  Yes No V  No V	Is the Sampled Area within a Wetland? Yes No
Wetland Hydrology Present?	within a wettand:
Remarks:	
	emeral tributary (snom003) to Twin Lakes. Photos: 2534 through
2538 (soil, N, E, S, W)	, ,
LIVED OLO V	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) True Aquatic P	<u> </u>
High Water Table (A2)  Hydrogen Sulfi	
1 <del></del>	pospheres on Living Roots (C3) Moss Trim Lines (B16)  educed Iron (C4) Dry-Season Water Table (C2)
	educed Iron (C4)
Drift Deposits (B3)  Thin Muck Sur	
Algal Mat or Crust (B4)  Other (Explain	
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches	):
Water Table Present? Yes No Depth (inches	
Saturation Present? Yes No Depth (inches	
(includes capillary fringe)	,
Describe Recorded Data (stream gauge, monitoring well, aerial photo	os, previous inspections), if available:
NA	
Remarks:	

Sampling Point: wnom003\_u

20 ff	Absolute	Dominant		Dominance Test worksheet:	
Tree Stratum (Plot size: 30 ft )		Species?		Number of Dominant Species	
1. Quercus falcata	80	<u>Y</u>	FACU	That Are OBL, FACW, or FAC: 3	(A)
2. Liriodenderon tulipifera	20		FACU	Total Number of Dominant	
3. Pinus taeda	5		FAC	Species Across All Strata: 9	(B)
4. Liquidambar styraciflua				Percent of Dominant Species	
5				That Are OBL, FACW, or FAC: 33	(A/B)
6					
	105	= Total Cov	er	Prevalence Index worksheet:	
50% of total cover: 52.5				Total % Cover of: Multiply	
<u> </u>	20% 01	total cover.		OBL species x 1 =	
Sapling Stratum (Plot size: 15 ft)  1. Quercus falcata	5		FACU	FACW species x 2 =	
	25	Y	FAC	FAC species x 3 =	
2. Carpinus caroliniana	5	<u> </u>		FACU species x 4 =	
3. Pinus taeda			FAC	UPL species x 5 =	
4. Liriodendron tuliperfera	20	<u>Y</u>	FACU	Column Totals: (A)	
5				( ,	
6				Prevalence Index = B/A =	
	55	= Total Cov	er	Hydrophytic Vegetation Indicators:	
50% of total cover: 27.5	20% of	total cover	11	1 - Rapid Test for Hydrophytic Vegeta	tion
Shrub Stratum (Plot size: 15 ft )	2070 01	total cover.		2 - Dominance Test is >50%	
1 Cornus florida	5	Υ	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>	
2. Carpinus caroliniana	5 15	<u>Y</u>	FAC	4 - Morphological Adaptations <sup>1</sup> (Provide	le supporting
	-			data in Remarks or on a separate s	sheet)
3				Problematic Hydrophytic Vegetation <sup>1</sup> (	
4					,
5				<sup>1</sup> Indicators of hydric soil and wetland hydro	ology must
6				be present, unless disturbed or problematic	C.
	20				
	20	= Total Cov	er	Definitions of Five Vegetation Strata:	
50% of total cover: 10				Definitions of Five Vegetation Strata:	
50% of total cover: 10  Herb Stratum (Plot size: 5 ft )				Tree – Woody plants, excluding woody vin	
Herb Stratum (Plot size: 5 ft )	20% of	total cover:	4	Tree – Woody plants, excluding woody vin approximately 20 ft (6 m) or more in height	and 3 in.
Herb Stratum (Plot size: 5 ft  1. Liriodendron tuliperfera	20% of	total cover:	FACU	Tree – Woody plants, excluding woody vin approximately 20 ft (6 m) or more in height (7.6 cm) or larger in diameter at breast height	and 3 in. ght (DBH).
Herb Stratum (Plot size: 5 ft  1. Liriodendron tuliperfera  2. Polystichum acrostichoides	20% of 2	total cover:	FACU FACU	Tree – Woody plants, excluding woody vin approximately 20 ft (6 m) or more in height (7.6 cm) or larger in diameter at breast height Sapling – Woody plants, excluding woody	and 3 in. ght (DBH). vines,
Herb Stratum (Plot size: 5 ft  1. Liriodendron tuliperfera	20% of	total cover:	FACU	Tree – Woody plants, excluding woody vin approximately 20 ft (6 m) or more in height (7.6 cm) or larger in diameter at breast height Sapling – Woody plants, excluding woody approximately 20 ft (6 m) or more in height	and 3 in. ght (DBH). vines,
Herb Stratum (Plot size: 5 ft  1. Liriodendron tuliperfera  2. Polystichum acrostichoides	20% of 2	total cover:	FACU FACU	Tree – Woody plants, excluding woody vin approximately 20 ft (6 m) or more in height (7.6 cm) or larger in diameter at breast height Sapling – Woody plants, excluding woody approximately 20 ft (6 m) or more in height than 3 in. (7.6 cm) DBH.	and 3 in. ght (DBH). vines, and less
Herb Stratum (Plot size: 5 ft  1. Liriodendron tuliperfera  2. Polystichum acrostichoides  3. Rubus allegheniensis	20% of 2	total cover:	FACU FACU	Tree – Woody plants, excluding woody vin approximately 20 ft (6 m) or more in height (7.6 cm) or larger in diameter at breast height Sapling – Woody plants, excluding woody approximately 20 ft (6 m) or more in height than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody v	and 3 in. ght (DBH). vines, and less ines,
Herb Stratum (Plot size: 5 ft  1. Liriodendron tuliperfera  2. Polystichum acrostichoides  3. Rubus allegheniensis	20% of 2	total cover:	FACU FACU	Tree – Woody plants, excluding woody vin approximately 20 ft (6 m) or more in height (7.6 cm) or larger in diameter at breast height Sapling – Woody plants, excluding woody approximately 20 ft (6 m) or more in height than 3 in. (7.6 cm) DBH.	and 3 in. ght (DBH). vines, and less ines,
Herb Stratum (Plot size: 5 ft 1. Liriodendron tuliperfera 2. Polystichum acrostichoides 3. Rubus allegheniensis 4	20% of 2 2 2 2	Y Y Y	FACU FACU	Tree – Woody plants, excluding woody vin approximately 20 ft (6 m) or more in height (7.6 cm) or larger in diameter at breast height (7.6 cm) or larger in diameter at breast height (7.6 cm) or more in height than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vapproximately 3 to 20 ft (1 to 6 m) in height (1 to	and 3 in. ght (DBH). vines, and less ines, t. , including
Herb Stratum (Plot size: 5 ft  1. Liriodendron tuliperfera  2. Polystichum acrostichoides  3. Rubus allegheniensis  4	20% of 2 2 2 2 2	Y Y Y	FACU FACU	Tree – Woody plants, excluding woody vin approximately 20 ft (6 m) or more in height (7.6 cm) or larger in diameter at breast height (7.6 cm) woody plants, excluding woody approximately 20 ft (6 m) or more in height than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vapproximately 3 to 20 ft (1 to 6 m) in height herb – All herbaceous (non-woody) plants herbaceous vines, regardless of size, and	and 3 in. ght (DBH). vines, and less ines, t. , including woody
Herb Stratum (Plot size: 5 ft )  1. Liriodendron tuliperfera  2. Polystichum acrostichoides  3. Rubus allegheniensis  4	20% of 2 2 2 2 2	Y Y Y	FACU FACU	Tree – Woody plants, excluding woody vin approximately 20 ft (6 m) or more in height (7.6 cm) or larger in diameter at breast height (7.6 cm) or larger in diameter at breast height (7.6 cm) or more in height than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vapproximately 3 to 20 ft (1 to 6 m) in height (1 to	and 3 in. ght (DBH). vines, and less ines, t. , including woody
Herb Stratum (Plot size: 5 ft )  1. Liriodendron tuliperfera  2. Polystichum acrostichoides  3. Rubus allegheniensis  4	20% of 2 2 2 2	Y Y Y	FACU FACU	Tree – Woody plants, excluding woody vin approximately 20 ft (6 m) or more in height (7.6 cm) or larger in diameter at breast heich sapling – Woody plants, excluding woody approximately 20 ft (6 m) or more in height than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vapproximately 3 to 20 ft (1 to 6 m) in height Herb – All herbaceous (non-woody) plants herbaceous vines, regardless of size, and plants, except woody vines, less than apprift (1 m) in height.	and 3 in. ght (DBH).  vines, and less  ines, t. , including woody oximately 3
Herb Stratum (Plot size: 5 ft )  1. Liriodendron tuliperfera 2. Polystichum acrostichoides 3. Rubus allegheniensis 4	20% of 2 2 2 2	Y Y Y	FACU FACU	Tree – Woody plants, excluding woody vin approximately 20 ft (6 m) or more in height (7.6 cm) or larger in diameter at breast height (7.6 cm) woody plants, excluding woody approximately 20 ft (6 m) or more in height than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vapproximately 3 to 20 ft (1 to 6 m) in height herb – All herbaceous (non-woody) plants herbaceous vines, regardless of size, and plants, except woody vines, less than approximately 20 ft (1 to 6 m) in height herbaceous vines, regardless of size, and plants, except woody vines, less than approximately 20 ft (6 m) or more in height than 3 in. (7.6 cm) DBH.	and 3 in. ght (DBH).  vines, and less  ines, t. , including woody oximately 3
Herb Stratum (Plot size: 5 ft) 1. Liriodendron tuliperfera 2. Polystichum acrostichoides 3. Rubus allegheniensis 4	20% of 2 2 2 2 2 2	Y Y Y	FACU FACU FACU	Tree – Woody plants, excluding woody vin approximately 20 ft (6 m) or more in height (7.6 cm) or larger in diameter at breast heich sapling – Woody plants, excluding woody approximately 20 ft (6 m) or more in height than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vapproximately 3 to 20 ft (1 to 6 m) in height Herb – All herbaceous (non-woody) plants herbaceous vines, regardless of size, and plants, except woody vines, less than apprift (1 m) in height.	and 3 in. ght (DBH).  vines, and less  ines, t. , including woody oximately 3
Herb Stratum (Plot size: 5 ft 1. Liriodendron tuliperfera 2. Polystichum acrostichoides 3. Rubus allegheniensis 4. 5. 6. 7. 8. 9. 10. 11.	20% of 2 2 2 2 2	Y Y Y Y	FACU FACU FACU	Tree – Woody plants, excluding woody vin approximately 20 ft (6 m) or more in height (7.6 cm) or larger in diameter at breast heich sapling – Woody plants, excluding woody approximately 20 ft (6 m) or more in height than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vapproximately 3 to 20 ft (1 to 6 m) in height Herb – All herbaceous (non-woody) plants herbaceous vines, regardless of size, and plants, except woody vines, less than apprift (1 m) in height.	and 3 in. ght (DBH).  vines, and less  ines, t. , including woody oximately 3
Herb Stratum (Plot size: 5 ft 1. Liriodendron tuliperfera 2. Polystichum acrostichoides 3. Rubus allegheniensis 4. 5. 6. 7. 8. 9. 10. 11. 50% of total cover:	20% of 2 2 2 2 2	Y Y Y Y	FACU FACU FACU	Tree – Woody plants, excluding woody vin approximately 20 ft (6 m) or more in height (7.6 cm) or larger in diameter at breast heich sapling – Woody plants, excluding woody approximately 20 ft (6 m) or more in height than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vapproximately 3 to 20 ft (1 to 6 m) in height Herb – All herbaceous (non-woody) plants herbaceous vines, regardless of size, and plants, except woody vines, less than apprift (1 m) in height.	and 3 in. ght (DBH).  vines, and less  ines, t. , including woody oximately 3
Herb Stratum (Plot size: 5 ft 1. Liriodendron tuliperfera 2. Polystichum acrostichoides 3. Rubus allegheniensis 4	20% of 2 2 2 2 2 6 20% of	Y Y Y  T  Total Coversitotal covers	FACU FACU FACU	Tree – Woody plants, excluding woody vin approximately 20 ft (6 m) or more in height (7.6 cm) or larger in diameter at breast heich sapling – Woody plants, excluding woody approximately 20 ft (6 m) or more in height than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vapproximately 3 to 20 ft (1 to 6 m) in height Herb – All herbaceous (non-woody) plants herbaceous vines, regardless of size, and plants, except woody vines, less than apprift (1 m) in height.	and 3 in. ght (DBH).  vines, and less  ines, t. , including woody oximately 3
Herb Stratum (Plot size: 5 ft 1. Liriodendron tuliperfera 2. Polystichum acrostichoides 3. Rubus allegheniensis 4	20% of 2 2 2 2 2 6 20% of 5	Y Y Y  Total Coversity  Total Coversity  Y	FACU FACU FACU FACU FACU FACU	Tree – Woody plants, excluding woody vin approximately 20 ft (6 m) or more in height (7.6 cm) or larger in diameter at breast heich sapling – Woody plants, excluding woody approximately 20 ft (6 m) or more in height than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vapproximately 3 to 20 ft (1 to 6 m) in height Herb – All herbaceous (non-woody) plants herbaceous vines, regardless of size, and plants, except woody vines, less than apprift (1 m) in height.	and 3 in. ght (DBH).  vines, and less  ines, t. , including woody oximately 3
Herb Stratum (Plot size: 5 ft)  1. Liriodendron tuliperfera  2. Polystichum acrostichoides  3. Rubus allegheniensis  4	20% of 2 2 2 2 2 2 6 6 5 5 6 5	Y Y Y  Total Coverse and Cover	FACU FACU FACU FACU FACU FACU	Tree – Woody plants, excluding woody vin approximately 20 ft (6 m) or more in height (7.6 cm) or larger in diameter at breast heich sapling – Woody plants, excluding woody approximately 20 ft (6 m) or more in height than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vapproximately 3 to 20 ft (1 to 6 m) in height Herb – All herbaceous (non-woody) plants herbaceous vines, regardless of size, and plants, except woody vines, less than apprift (1 m) in height.	and 3 in. ght (DBH).  vines, and less  ines, t. , including woody oximately 3
Herb Stratum (Plot size: 5 ft 1. Liriodendron tuliperfera 2. Polystichum acrostichoides 3. Rubus allegheniensis 4	20% of 2 2 2 2 2 2 6 6 5 5 6 5	Y Y Y  Total Coverse and Cover	FACU FACU FACU FACU FACU FACU	Tree – Woody plants, excluding woody vin approximately 20 ft (6 m) or more in height (7.6 cm) or larger in diameter at breast heich sapling – Woody plants, excluding woody approximately 20 ft (6 m) or more in height than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vapproximately 3 to 20 ft (1 to 6 m) in height Herb – All herbaceous (non-woody) plants herbaceous vines, regardless of size, and plants, except woody vines, less than apprift (1 m) in height.	and 3 in. ght (DBH).  vines, and less  ines, t. , including woody oximately 3
Herb Stratum (Plot size: 5 ft)  1. Liriodendron tuliperfera  2. Polystichum acrostichoides  3. Rubus allegheniensis  4	20% of 2 2 2 2 2 6 6 5 5 6 6 6 6 6 6 6 6 6 6 6	Y Y Y Y Y  Total Coverse total covers	FACU FACU FACU FACU FACU FACU	Tree – Woody plants, excluding woody vin approximately 20 ft (6 m) or more in height (7.6 cm) or larger in diameter at breast heich sapling – Woody plants, excluding woody approximately 20 ft (6 m) or more in height than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vapproximately 3 to 20 ft (1 to 6 m) in height Herb – All herbaceous (non-woody) plants herbaceous vines, regardless of size, and plants, except woody vines, less than apprift (1 m) in height.	and 3 in. ght (DBH).  vines, and less  ines, t. , including woody oximately 3
Herb Stratum (Plot size: 5 ft)  1. Liriodendron tuliperfera  2. Polystichum acrostichoides  3. Rubus allegheniensis  4  5  6  7  8  9  10  11  Woody Vine Stratum (Plot size: 30 ft)  1. Lonicera japonica  2  3	20% of 2 2 2 2 2 6 6 5 5 6 6 6 6 6 6 6 6 6 6 6	Y Y Y Y Y  Total Covers  Total Covers  Y	FACU FACU FACU FACU FACU FACU FACU	Tree – Woody plants, excluding woody vin approximately 20 ft (6 m) or more in height (7.6 cm) or larger in diameter at breast height (7.6 cm) or larger in diameter at breast height (7.6 cm). Woody plants, excluding woody approximately 20 ft (6 m) or more in height than 3 in. (7.6 cm). DBH.  Shrub – Woody plants, excluding woody vapproximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants herbaceous vines, regardless of size, and plants, except woody vines, less than apprift (1 m) in height.  Woody vine – All woody vines, regardless	and 3 in. ght (DBH).  vines, and less  ines, t. , including woody oximately 3
Herb Stratum (Plot size: 5 ft) 1. Liriodendron tuliperfera 2. Polystichum acrostichoides 3. Rubus allegheniensis 4 5 6 7 8 9 10 11  Woody Vine Stratum (Plot size: 30 ft) 1. Lonicera japonica 2 3 4	20% of 2 2 2 2 2 6 6 5 5 6 6 6 6 6 6 6 6 6 6 6	Y Y Y Y Y  Total Covers  Total Covers  Y	FACU FACU FACU FACU FACU FACU FACU	Tree – Woody plants, excluding woody vin approximately 20 ft (6 m) or more in height (7.6 cm) or larger in diameter at breast heich sapling – Woody plants, excluding woody approximately 20 ft (6 m) or more in height than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vapproximately 3 to 20 ft (1 to 6 m) in height Herb – All herbaceous (non-woody) plants herbaceous vines, regardless of size, and plants, except woody vines, less than apprift (1 m) in height.  Woody vine – All woody vines, regardless	and 3 in. ght (DBH).  vines, and less  ines, t. , including woody oximately 3
Herb Stratum (Plot size: 5 ft) 1. Liriodendron tuliperfera 2. Polystichum acrostichoides 3. Rubus allegheniensis 4 5 6 7 8 9 10 11  Woody Vine Stratum (Plot size: 30 ft) 1. Lonicera japonica 2 3 4 5	20% of 2 2 2 2 2 2 5 5 5 5 5 5 5 5 5 5 5 5 5	Y Y Y Y  Total Coverse	FACU FACU FACU FACU FACU FACU FACU FACU	Tree – Woody plants, excluding woody vin approximately 20 ft (6 m) or more in height (7.6 cm) or larger in diameter at breast height (7.6 cm) or larger in diameter at breast height (7.6 cm). Woody plants, excluding woody approximately 20 ft (6 m) or more in height than 3 in. (7.6 cm). DBH.  Shrub – Woody plants, excluding woody vapproximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants herbaceous vines, regardless of size, and plants, except woody vines, less than apprift (1 m) in height.  Woody vine – All woody vines, regardless	and 3 in. ght (DBH).  vines, and less  ines, t. , including woody oximately 3
Herb Stratum (Plot size: 5 ft) 1. Liriodendron tuliperfera 2. Polystichum acrostichoides 3. Rubus allegheniensis 4 5 6 7 8 9 10 11  Woody Vine Stratum (Plot size: 30 ft) 1. Lonicera japonica 2 3 4 5 50% of total cover:	20% of 2 2 2 2 2 2 5 5 5 20% of 5	Y Y Y Y  Total Coverse	FACU FACU FACU FACU FACU FACU FACU FACU	Tree – Woody plants, excluding woody vin approximately 20 ft (6 m) or more in height (7.6 cm) or larger in diameter at breast heich sapling – Woody plants, excluding woody approximately 20 ft (6 m) or more in height than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vapproximately 3 to 20 ft (1 to 6 m) in height Herb – All herbaceous (non-woody) plants herbaceous vines, regardless of size, and plants, except woody vines, less than apprift (1 m) in height.  Woody vine – All woody vines, regardless  Hydrophytic Vegetation	and 3 in. ght (DBH).  vines, and less  ines, t. , including woody oximately 3
Herb Stratum (Plot size: 5 ft) 1. Liriodendron tuliperfera 2. Polystichum acrostichoides 3. Rubus allegheniensis 4 5 6 7 8 9 10 11  Woody Vine Stratum (Plot size: 30 ft) 1. Lonicera japonica 2 3 4 5	20% of 2 2 2 2 2 5 5 5 20% of 5	Y Y Y Y  Total Coverse	FACU FACU FACU FACU FACU FACU FACU FACU	Tree – Woody plants, excluding woody vin approximately 20 ft (6 m) or more in height (7.6 cm) or larger in diameter at breast heich sapling – Woody plants, excluding woody approximately 20 ft (6 m) or more in height than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vapproximately 3 to 20 ft (1 to 6 m) in height Herb – All herbaceous (non-woody) plants herbaceous vines, regardless of size, and plants, except woody vines, less than apprift (1 m) in height.  Woody vine – All woody vines, regardless  Hydrophytic Vegetation	and 3 in. ght (DBH).  vines, and less  ines, t. , including woody oximately 3

Sampling Point: wnom003\_u

Profile Desc	ription: (Describe	to the dept	h needed to document th	ne indicator o	or confirm	the absence	of indicators.)
Depth	Matrix		Redox Feat	ures			
(inches)	Color (moist)	%	Color (moist) %	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	<u>Remarks</u>
0-4	2.5 Y 3/3	98				LM	
4-14	2.5 Y 5/4	98				SA/LM	
			<del></del>				
		pletion, RM=	Reduced Matrix, MS=Mas	ked Sand Gra	ains.	<sup>2</sup> Location: PL	_=Pore Lining, M=Matrix.
Hydric Soil I							tors for Problematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface (S7)				cm Muck (A10) (MLRA 147)
	ipedon (A2)		Polyvalue Below Su			148) 🔲 Co	oast Prairie Redox (A16)
Black Hi			Thin Dark Surface (		47, 148)		(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleyed Matr			L Pi	edmont Floodplain Soils (F19)
	Layers (A5)		Depleted Matrix (F3			П.,	(MLRA 136, 147)
	ck (A10) (LRR N)	- (0.11)	Redox Dark Surface				ery Shallow Dark Surface (TF12)
·	Below Dark Surface (A12)	ce (ATT)	Depleted Dark Surf				ther (Explain in Remarks)
	irk Surface (A12)	'L DD N	Redox Depressions		DD N		
-	lucky Mineral (S1) ( \ 147, 148)	LKK N,	Iron-Manganese Ma	asses (F 12) (I	LKK N,		
	leyed Matrix (S4)		Umbric Surface (F1	3) (MI DA 13	6 122)	<sup>3</sup> Indi	cators of hydrophytic vegetation and
	edox (S5)		Piedmont Floodplai				tland hydrology must be present,
	Matrix (S6)		Red Parent Materia				ess disturbed or problematic.
	_ayer (if observed)	) <u>:</u>	rtou r uront matoria	(. 2 .) (2		<del>, a</del>	oss distarbod or problematic.
Type: NA							
J	ches):		_			Hydric Soil	Present? Yes No V
						Tiyunc 3011	Fresent: Tes No No
Remarks:							



Upland data point wnom003\_u facing north



Upland data point wnom003\_u facing south



Upland data point wnom003\_u soil sample

Project/Site: Southeast Reliability Project	City/County: NA/Nottoway Sampling Date: 8/30/2014
Applicant/Owner: Dominion Transmission	State: VA Sampling Point: wnom004f_
	Section, Township, Range: NA
	cal relief (concave, convex, none): concave Slope (%): 30
Subregion (LRR or MLRA): LRR P Lat: _37.118983	Long: -77.907411 Datum: NAD1983
Soil Map Unit Name: Mixed alluvial land, poorly drained, freq	uently flooded NWI classification: PFO1C
Are climatic / hydrologic conditions on the site typical for this time of ye	
Are Vegetation Soil , or Hydrology significantly	disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation Soil , or Hydrology naturally pro	oblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	
Hydric Soil Present?  Yes  No	Is the Sampled Area within a Wetland? Yes No
Wetland Hydrology Present?	100 <u>100 100 100 100 100 100 100 100 100</u>
Remarks:	I
	akes and at toe of 20% slopes and associated with ephemeral
	vidence of past harvesting (rutting, stumps) in wetland. Photos:
2548 through 2552 (soil, N, E, S, W)	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)  True Aquatic Pi	
High Water Table (A2)  Hydrogen Sulfie	<u> </u>
	spheres on Living Roots (C3) Moss Trim Lines (B16)
1 <u>—</u>	educed Iron (C4) Dry-Season Water Table (C2)
	duction in Tilled Soils (C6) Crayfish Burrows (C8)
Drift Deposits (B3)	ace (C7) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Other (Explain	in Remarks) Stunted or Stressed Plants (D1)
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches)	
Water Table Present? Yes No Depth (inches)	
Saturation Present? Yes No Depth (inches)	Wetland Hydrology Present? Yes No No
Describe Recorded Data (stream gauge, monitoring well, aerial photo	os, previous inspections), if available:
NA	
Remarks:	
Saturated to surface in some areas. Flow in stream from	n upstream pond/rain event previous day.

20.4	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft		Species?		Number of Dominant Species
1. Quercus michauxii	55	<u>Y</u>	FACW	That Are OBL, FACW, or FAC: 11 (A)
2. Liriodenderon tulipifera	15		FACU	Total Number of Dominant
3. Liquidambar styraciflua	25	<u>Y</u>	<u>FAC</u>	Species Across All Strata: 12 (B)
4. Fraxinus pennsylvanica	10		FACW	Barrel of Barriage Consider
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 92 (A/B)
6.				matric obe, thow, of the
	105	= Total Cov	er	Prevalence Index worksheet:
52.5				Total % Cover of: Multiply by:
50% of total cover: <u>52.5</u>	20% of	total cover:		OBL species x 1 =
Sapling Stratum (Plot size: 15 ft )	4.0		E40	FACW species x 2 =
1. Liquidambar styraciflua	10	<u> </u>	FAC	FAC species x 3 =
2				FACU species x 4 =
3				UPL species x 5 =
4				
5				Column Totals: (A) (B)
6				Prevalence Index = B/A =
<u> </u>		= Total Cov		Hydrophytic Vegetation Indicators:
5				1
50% of total cover: 5	20% of	total cover:		1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 15 ft )				2 - Dominance Test is >50%
1. Fraxinus pennsylvanica	10	<u>Y</u>	FACW	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Ilex opaca	2		FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Vaccinium corymbosum	3	Υ	FACW	data in Remarks or on a separate sheet)
4				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5				
6				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
0	15	= Total Cov		be present, unless disturbed or problematic.
7-				Definitions of Five Vegetation Strata:
50% of total cover: <u>7.5</u>	20% of	total cover:	3	Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft )				approximately 20 ft (6 m) or more in height and 3 in.
<sub>1.</sub> Fraxinus pennsylvanica	3	<u>Y</u>	FACW	(7.6 cm) or larger in diameter at breast height (DBH).
2. Carex frankii	5	<u>Y</u>	OBL	Sapling – Woody plants, excluding woody vines,
3. Quercus michauxii	3	Υ	FACU	approximately 20 ft (6 m) or more in height and less
4.				than 3 in. (7.6 cm) DBH.
5				Shrub – Woody plants, excluding woody vines,
6. Spahgnum (5%)				approximately 3 to 20 ft (1 to 6 m) in height.
7				Hade All bade cooks (son woods) alonto including
7				Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
8				plants, except woody vines, less than approximately 3
9				ft (1 m) in height.
10				Woody vine – All woody vines, regardless of height.
11	40			
	12	= Total Cov	er	
50% of total cover: 6	20% of	total cover:	2.4	
Woody Vine Stratum (Plot size: 30 ft )				
1. Lonicera japonica	3	Υ	FAC	
2. Toxicodendron radicans	3	Y	FAC	
3 Campsis radicans	5	Y	FAC	
·		<u> </u>	1710	
4			FAC	
5	11			Hydrophytic
	11	= Total Cov	er	Vegetation
50% of total cover: 7	20% of	total cover:	2.2	Present? Yes No No
Remarks: (Include photo numbers here or on a separate s				1
5% grasses no fruits; no ID.				

Sampling Point: wnom004f\_w

Profile Desc	ription: (Describe	to the dep	oth needed to docur	nent the	indicator	or confirm	the absence	of indicators.)
Depth	Matrix		Redo	x Feature	es			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup> _	Loc <sup>2</sup>	Texture	Remarks
0-4	10 YR 4/4	95	10 YR 6/6	3	С	M	LM	
4-10	10 YR 5/2	80	10 YR 5/6	15	С	PL/M	LM	
10-16	10 YR 6/1	45	10 YR 5/6	35	С	PL/M	SA/LM	15% 10 YR 5/2 matrix
		- —			. —			
<sup>1</sup> Type: C=Co	oncentration, D=Dep	letion, RM	=Reduced Matrix, M	S=Maske	d Sand Gr	ains.	<sup>2</sup> Location: P	L=Pore Lining, M=Matrix.
Hydric Soil I			·					ators for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		☐ Dark Surface	e (S7)				cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be		ace (S8) <b>(N</b>	/ILRA 147,		Coast Prairie Redox (A16)
☐ Black Hi	•		Thin Dark Su				,	(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye				□ P	Piedmont Floodplain Soils (F19)
	Layers (A5)		Depleted Ma					(MLRA 136, 147)
2 cm Mu	ck (A10) (LRR N)		Redox Dark	Surface (I	F6)		<u> </u>	ery Shallow Dark Surface (TF12)
Depleted	d Below Dark Surfac	e (A11)	Depleted Da	rk Surface	e (F7)			Other (Explain in Remarks)
Thick Da	rk Surface (A12)		Redox Depre	,	,			
	lucky Mineral (S1) (	LRR N,	☐ Iron-Mangan		ses (F12) <b>(</b>	LRR N,		
	A 147, 148)		MLRA 13					
	lleyed Matrix (S4)		Umbric Surfa					licators of hydrophytic vegetation and
	edox (S5)		Piedmont Flo					etland hydrology must be present,
	Matrix (S6)		Red Parent I	Material (F	<sup>-</sup> 21) <b>(MLR</b>	A 127, 147	7) un	less disturbed or problematic.
	ayer (if observed)							
Туре: <u>N</u> A								
Depth (inc	ches):						Hydric Soil	Present? Yes Vo No
Remarks:	oprovimatoly 1/2	of wotlo	nd (along the we	et cido	of wotlo	nd) falle v	within coil to	voo Appling coarse sandy loam
								pe Appling coarse sandy loam, ociated with floodplains.
CI	oded rolling pria	ise, weii-	uraineu. The Nr	(CS SUII	i Class IV	iixeu Aiic	iviai, is assi	ociated with hoodplains.



Wetland data point wnom004f\_w facing north



Wetland data point wnom004f\_w facing south



Wetland data point wnom004f\_w soil sample

Project/Site: Southeast Reliability Project	City/County: NA/Nottoway Sampling Date: 8/30/2014
Applicant/Owner: Dominion Transmission	State: VA Sampling Point: wnom004_u
Investigator(s): S. Grove, E. Bubb	Section, Township, Range: NA
Landform (hillslope, terrace, etc.): hillslope	ocal relief (concave, convex, none): concave Slope (%): 30
Subregion (LRR or MLRA): LRR P Lat: 37.123577	
Soil Map Unit Name: Appling coarse sandy loam, eroded ro	lling phase, well-drained NWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time of ye	
Are Vegetation Soil , or Hydrology significantly	y disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation Soil , or Hydrology naturally pr	oblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vagatation Present? Vas No V	
Trydrophytic vegetation Fresent:	Is the Sampled Area within a Wetland? Yes No
Hydric Soil Present?  Wetland Hydrology Present?  Yes No V No V	. Within a wettand? Yes No
Remarks:	·
	tary to Twin Lakes. Evidence of past harvesting (rutting, stumps)
in wetland. Photos: 2558 through 2562 (soil, N, E, S, W	
	,
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) True Aquatic F	
High Water Table (A2) Hydrogen Sulf	<u> </u>
Saturation (A3) Oxidized Rhize	ospheres on Living Roots (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of R	educed Iron (C4) Dry-Season Water Table (C2)
Sediment Deposits (B2)	eduction in Tilled Soils (C6) Crayfish Burrows (C8)
Drift Deposits (B3)	
Algal Mat or Crust (B4) Other (Explain	
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	A.
Surface Water Present? Yes No Depth (inches	
Water Table Present?  Yes No Depth (inches	
Saturation Present? Yes No Depth (inches (includes capillary fringe)	S): Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial phot	os, previous inspections), if available:
NA	
Remarks:	

Sampling Point: wnom004\_u

20 ft	Absolute	Dominant		Dominance Test worksheet:	
Tree Stratum (Plot size: 30 ft )		Species?		Number of Dominant Species	2
1. Quercus rubra	80	<u> </u>	FACU	That Are OBL, FACW, or FAC:	3 (A)
2. Liriodenderon tulipifera	20		FACU	Total Number of Dominant	
3. Pinus taeda	5		FAC	Species Across All Strata:	9 (B)
4				Percent of Dominant Species	
5				That Are OBL, FACW, or FAC:	33 (A/B)
6					
	110	= Total Cov	er	Prevalence Index worksheet:	
50% of total cover: 52.5				Total % Cover of:	
Sapling Stratum (Plot size: 15 ft	20 % 01	total cover.		OBL species x 1	=
1. Liquidambar styraciflua	15	V	FAC	FACW species x 2	=
2. Liriodenderon tulipifera	20	<u>'</u> Y	FACU	FAC species x 3	=
	10	· <del></del>		FACU species x 4	=
3. Fagus grandifolia		·	FACU	UPL species x 5	
4. Cornus florida	10		FACU	Column Totals: (A)	
5					、 ,
6				Prevalence Index = B/A =	
	55	= Total Cov	er	Hydrophytic Vegetation Indicate	ors:
50% of total cover: 27.5	20% of	total cover	11	1 - Rapid Test for Hydrophytic	C Vegetation
Shrub Stratum (Plot size: 15 ft )	2070 01	total covor.		2 - Dominance Test is >50%	-
1. Fagus grandifolia	25	Υ	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>	
2. Ilex opaca	5	-	FACU	4 - Morphological Adaptations	s <sup>1</sup> (Provide supporting
3 Liquidambar styraciflua	10	Y	FAC	data in Remarks or on a se	eparate sheet)
·			170	Problematic Hydrophytic Vege	
4					` ' '
5				<sup>1</sup> Indicators of hydric soil and wetla	and hydrology must
6				be present, unless disturbed or pro	oblematic.
	40				
	<del></del>	= Total Cov	er	Definitions of Five Vegetation S	trata:
50% of total cover: 20				Definitions of Five Vegetation S	
50% of total cover: 20  Herb Stratum (Plot size: 5 ft )				Tree – Woody plants, excluding w	oody vines,
Herb Stratum (Plot size: 5 ft )	20% of	total cover:	8	Tree – Woody plants, excluding w approximately 20 ft (6 m) or more	oody vines, in height and 3 in.
Herb Stratum (Plot size: 5 ft)  1. Quercus rubra	20% of	total cover:	FACU	Tree – Woody plants, excluding w approximately 20 ft (6 m) or more (7.6 cm) or larger in diameter at br	roody vines, in height and 3 in. reast height (DBH).
Herb Stratum (Plot size: 5 ft  1. Quercus rubra 2. Liquidambar styraciflua	20% of 2	total cover:	FACU FAC	Tree – Woody plants, excluding w approximately 20 ft (6 m) or more (7.6 cm) or larger in diameter at br Sapling – Woody plants, excludin	roody vines, in height and 3 in. reast height (DBH). ig woody vines,
Herb Stratum (Plot size: 5 ft )  1. Quercus rubra  2. Liquidambar styraciflua  3. Quercus michauxii	20% of 2 2 2 2	total cover:	FACU FAC FACW	Tree – Woody plants, excluding w approximately 20 ft (6 m) or more (7.6 cm) or larger in diameter at br Sapling – Woody plants, excludin approximately 20 ft (6 m) or more	roody vines, in height and 3 in. reast height (DBH). ig woody vines,
Herb Stratum (Plot size: 5 ft  1. Quercus rubra 2. Liquidambar styraciflua	20% of 2	total cover:	FACU FAC	Tree – Woody plants, excluding w approximately 20 ft (6 m) or more (7.6 cm) or larger in diameter at br  Sapling – Woody plants, excludin approximately 20 ft (6 m) or more than 3 in. (7.6 cm) DBH.	roody vines, in height and 3 in. reast height (DBH). g woody vines, in height and less
Herb Stratum (Plot size: 5 ft )  1. Quercus rubra  2. Liquidambar styraciflua  3. Quercus michauxii  4. Vaccinium angustifolium  5.	20% of 2 2 2 2	total cover:	FACU FAC FACW	Tree – Woody plants, excluding w approximately 20 ft (6 m) or more (7.6 cm) or larger in diameter at br  Sapling – Woody plants, excludin approximately 20 ft (6 m) or more than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding	roody vines, in height and 3 in. reast height (DBH).  In g woody vines, in height and less woody vines,
Herb Stratum (Plot size: 5 ft )  1. Quercus rubra  2. Liquidambar styraciflua  3. Quercus michauxii	20% of 2 2 2 2	total cover:	FACU FAC FACW	Tree – Woody plants, excluding w approximately 20 ft (6 m) or more (7.6 cm) or larger in diameter at br  Sapling – Woody plants, excludin approximately 20 ft (6 m) or more than 3 in. (7.6 cm) DBH.	roody vines, in height and 3 in. reast height (DBH).  In g woody vines, in height and less woody vines,
Herb Stratum (Plot size: 5 ft  1. Quercus rubra 2. Liquidambar styraciflua 3. Quercus michauxii 4. Vaccinium angustifolium  5	20% of 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	total cover:	FACU FAC FACW	Tree – Woody plants, excluding wapproximately 20 ft (6 m) or more (7.6 cm) or larger in diameter at br  Sapling – Woody plants, excludin approximately 20 ft (6 m) or more than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding approximately 3 to 20 ft (1 to 6 m)  Herb – All herbaceous (non-wood)	woody vines, in height and 3 in. reast height (DBH).  In woody vines, in height and less  woody vines, in height.  It woody vines, in height.
Herb Stratum (Plot size: 5 ft  1. Quercus rubra 2. Liquidambar styraciflua 3. Quercus michauxii 4. Vaccinium angustifolium  5	20% of 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	total cover:	FACU FAC FACW	Tree – Woody plants, excluding wapproximately 20 ft (6 m) or more (7.6 cm) or larger in diameter at br  Sapling – Woody plants, excludin approximately 20 ft (6 m) or more than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding approximately 3 to 20 ft (1 to 6 m)  Herb – All herbaceous (non-wood herbaceous vines, regardless of si	roody vines, in height and 3 in. reast height (DBH). g woody vines, in height and less woody vines, in height. (y) plants, including ize, and woody
Herb Stratum (Plot size: 5 ft  1. Quercus rubra 2. Liquidambar styraciflua 3. Quercus michauxii 4. Vaccinium angustifolium  5	20% of 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Y Y Y Y	FACU FAC FACW	Tree – Woody plants, excluding wapproximately 20 ft (6 m) or more (7.6 cm) or larger in diameter at br  Sapling – Woody plants, excludin approximately 20 ft (6 m) or more than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding approximately 3 to 20 ft (1 to 6 m)  Herb – All herbaceous (non-wood)	roody vines, in height and 3 in. reast height (DBH). g woody vines, in height and less woody vines, in height. (y) plants, including ize, and woody
Herb Stratum (Plot size: 5 ft )  1. Quercus rubra 2. Liquidambar styraciflua 3. Quercus michauxii 4. Vaccinium angustifolium  5	20% of 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Y Y Y Y	FACU FAC FACW	Tree – Woody plants, excluding w approximately 20 ft (6 m) or more (7.6 cm) or larger in diameter at br  Sapling – Woody plants, excludin approximately 20 ft (6 m) or more than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding approximately 3 to 20 ft (1 to 6 m)  Herb – All herbaceous (non-wood herbaceous vines, regardless of siplants, except woody vines, less the ft (1 m) in height.	woody vines, in height and 3 in. reast height (DBH).  In woody vines, in height and less  woody vines, in height.  It woody vines, in height.  It woody vines, in height.  It woody han approximately 3
Herb Stratum (Plot size: 5 ft )  1. Quercus rubra  2. Liquidambar styraciflua  3. Quercus michauxii  4. Vaccinium angustifolium  5	20% of 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Y Y Y Y	FACU FAC FACW	Tree – Woody plants, excluding w approximately 20 ft (6 m) or more (7.6 cm) or larger in diameter at br  Sapling – Woody plants, excludin approximately 20 ft (6 m) or more than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding approximately 3 to 20 ft (1 to 6 m)  Herb – All herbaceous (non-wood herbaceous vines, regardless of siplants, except woody vines, less the support of the second se	woody vines, in height and 3 in. reast height (DBH).  In woody vines, in height and less  woody vines, in height.  It woody vines, in height.  It woody vines, in height.  It woody han approximately 3
Herb Stratum (Plot size: 5 ft  1. Quercus rubra 2. Liquidambar styraciflua 3. Quercus michauxii 4. Vaccinium angustifolium  5	20% of 2 2 2 2 2 2	Y Y Y Y	FACU FACW FACU	Tree – Woody plants, excluding w approximately 20 ft (6 m) or more (7.6 cm) or larger in diameter at br  Sapling – Woody plants, excludin approximately 20 ft (6 m) or more than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding approximately 3 to 20 ft (1 to 6 m)  Herb – All herbaceous (non-wood herbaceous vines, regardless of siplants, except woody vines, less the ft (1 m) in height.	woody vines, in height and 3 in. reast height (DBH).  In woody vines, in height and less  woody vines, in height.  It woody vines, in height.  It woody vines, in height.  It woody han approximately 3
Herb Stratum (Plot size: 5 ft  1. Quercus rubra 2. Liquidambar styraciflua 3. Quercus michauxii 4. Vaccinium angustifolium  5	20% of 2 2 2 2 2 2 2 2 8 8 8	Y Y Y Y	FACU FACW FACU FACU	Tree – Woody plants, excluding w approximately 20 ft (6 m) or more (7.6 cm) or larger in diameter at br  Sapling – Woody plants, excludin approximately 20 ft (6 m) or more than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding approximately 3 to 20 ft (1 to 6 m)  Herb – All herbaceous (non-wood herbaceous vines, regardless of siplants, except woody vines, less the ft (1 m) in height.	woody vines, in height and 3 in. reast height (DBH).  In woody vines, in height and less  woody vines, in height.  It woody vines, in height.  It woody vines, in height.  It woody han approximately 3
Herb Stratum (Plot size: 5 ft  1. Quercus rubra 2. Liquidambar styraciflua 3. Quercus michauxii 4. Vaccinium angustifolium  5	20% of 2 2 2 2 2 2 2 2 8 8 8	Y Y Y Y	FACU FACW FACU FACU	Tree – Woody plants, excluding w approximately 20 ft (6 m) or more (7.6 cm) or larger in diameter at br  Sapling – Woody plants, excludin approximately 20 ft (6 m) or more than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding approximately 3 to 20 ft (1 to 6 m)  Herb – All herbaceous (non-wood herbaceous vines, regardless of siplants, except woody vines, less the ft (1 m) in height.	woody vines, in height and 3 in. reast height (DBH).  In woody vines, in height and less  woody vines, in height.  It woody vines, in height.  It woody vines, in height.  It woody han approximately 3
Herb Stratum (Plot size: 5 ft  1. Quercus rubra 2. Liquidambar styraciflua 3. Quercus michauxii 4. Vaccinium angustifolium  5	20% of 2 2 2 2 2 2 2 8 8 20% of	Y Y Y Y  T Y  T  T  T  T  T  T  T  T  T	FACU FACU FACU FACU FACU FACU FACU FACU	Tree – Woody plants, excluding w approximately 20 ft (6 m) or more (7.6 cm) or larger in diameter at br  Sapling – Woody plants, excludin approximately 20 ft (6 m) or more than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding approximately 3 to 20 ft (1 to 6 m)  Herb – All herbaceous (non-wood herbaceous vines, regardless of siplants, except woody vines, less the ft (1 m) in height.	woody vines, in height and 3 in. reast height (DBH).  In woody vines, in height and less  woody vines, in height.  It woody vines, in height.  It woody vines, in height.  It woody han approximately 3
Herb Stratum (Plot size: 5 ft )  1. Quercus rubra  2. Liquidambar styraciflua  3. Quercus michauxii  4. Vaccinium angustifolium  5	20% of 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Y Y Y Y Y = Total Cover:	FACU FACU FACU FACU FACU FACU FACU FACU	Tree – Woody plants, excluding w approximately 20 ft (6 m) or more (7.6 cm) or larger in diameter at br  Sapling – Woody plants, excludin approximately 20 ft (6 m) or more than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding approximately 3 to 20 ft (1 to 6 m)  Herb – All herbaceous (non-wood herbaceous vines, regardless of siplants, except woody vines, less the ft (1 m) in height.	woody vines, in height and 3 in. reast height (DBH).  In woody vines, in height and less  woody vines, in height.  It woody vines, in height.  It woody vines, in height.  It woody han approximately 3
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Herb Stratum (Plot size: 5 ft )  1. Quercus rubra  2. Liquidambar styraciflua  3. Quercus michauxii  4. Vaccinium angustifolium  5	20% of 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Y Y Y Y Y = Total Cover:	FACU FACU FACU FACU FACU FACU FACU FACU	Tree – Woody plants, excluding w approximately 20 ft (6 m) or more (7.6 cm) or larger in diameter at br  Sapling – Woody plants, excludin approximately 20 ft (6 m) or more than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding approximately 3 to 20 ft (1 to 6 m)  Herb – All herbaceous (non-wood herbaceous vines, regardless of siplants, except woody vines, less the ft (1 m) in height.	woody vines, in height and 3 in. reast height (DBH).  In woody vines, in height and less  woody vines, in height.  It woody vines, in height.  It woody vines, in height.  It woody han approximately 3
Herb Stratum (Plot size: 5 ft 1. Quercus rubra 2. Liquidambar styraciflua 3. Quercus michauxii 4. Vaccinium angustifolium 5	20% of 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Y Y Y Y Y = Total Cover:	FACU FACU FACU FACU FACU FACU FACU FACU	Tree – Woody plants, excluding w approximately 20 ft (6 m) or more (7.6 cm) or larger in diameter at br  Sapling – Woody plants, excludin approximately 20 ft (6 m) or more than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding approximately 3 to 20 ft (1 to 6 m)  Herb – All herbaceous (non-wood herbaceous vines, regardless of siplants, except woody vines, less the ft (1 m) in height.	woody vines, in height and 3 in. reast height (DBH).  In woody vines, in height and less  woody vines, in height.  It woody vines, in height.  It woody vines, in height.  It woody han approximately 3
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Sampling Point: wnom004\_u

Profile Desc	cription: (Describe	to the dep	th needed to docun	nent the indicat	tor or confirm	the absence o	of indicators.)
Depth	Matrix			k Features	1 . 2	_	
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u> <u>Type</u>	e <sup>1</sup> Loc <sup>2</sup>	<u>Texture</u>	Remarks
0-4	10 YR 4/3	98				LM	
4-14	10 YR 5/6	99				SA/LM	
		- ——					
	-			<del></del>	<del></del>		
<sup>1</sup> Type: C=C	oncentration, D=Dep	oletion, RM	=Reduced Matrix, MS	=Masked Sand	Grains.		=Pore Lining, M=Matrix.
Hydric Soil	Indicators:					Indicat	ors for Problematic Hydric Soils <sup>3</sup> :
L Histosol	(A1)		Dark Surface				m Muck (A10) (MLRA 147)
	pipedon (A2)			low Surface (S8		<b>148)</b>	ast Prairie Redox (A16)
	istic (A3)			rface (S9) (MLR	RA 147, 148)		(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye				edmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Mat				(MLRA 136, 147)
	uck (A10) <b>(LRR N)</b> d Below Dark Surfac	o (A11)	Redox Dark S	k Surface (F6)			ry Shallow Dark Surface (TF12) ner (Explain in Remarks)
$=$ $\cdot$	ark Surface (A12)	e (ATT)	Redox Depre			<b>—</b> 00	iei (Expiaiii iii Neiliaiks)
	Mucky Mineral (S1) (	I RR N.		ese Masses (F1:	2) (I RR N.		
	A 147, 148)	,	MLRA 136		_, (,		
	Gleyed Matrix (S4)			ce (F13) <b>(MLRA</b>	136, 122)	<sup>3</sup> Indic	ators of hydrophytic vegetation and
	Redox (S5)			odplain Soils (F			and hydrology must be present,
	d Matrix (S6)		Red Parent M	laterial (F21) <b>(M</b>	ILRA 127, 147	<b>7)</b> unle	ess disturbed or problematic.
	Layer (if observed)	:					
Туре: <u>N</u> .	A						
Depth (in	ches):					Hydric Soil F	Present? Yes No V
Remarks:							



Upland data point wnom004\_u facing north



Upland data point wnom004\_u facing south



Upland data point wnom004\_u soil sample