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

Tree   Stratum   Pled size   Section   Secti	0 - 10 - 11	Absolute	Dominant	Indicator	Dominance Test worksheet:
Total Number of Cominant   3 (8)	Tree Stratum (Plot size: 50 + X 50 + )				
Species Across Al Bratis.   (B)	1. None present				That Are OBL, FACW, or FAC: (A)
## Percent of Dominant Species That Are OBL, FACW, or FAC:    Fraction   Fraction   Factor	2				Total Number of Dominant
5	3				Species Across All Strata: (B)
That Are OBL, FACW, or FAC:	4				Percent of Dominant Species
Transferred Stratum (Plot size 30 + X 30 + 1)	5				
Total % Cover of:   Multiply by	6				Providence Index worksheet:
Bull	7				
FACW species   X 2 =   FACW species   X 3 =   FACW species   X 4 =   SERIES   Series   X 4 =   SERIES   Series   X 4 =   SERIES   SERI					
Sapilina/Shrub Stratum (Pict size 2041 3041)  1. PINUS ABELIA  2. QUERTUS Phelios  3. SAMONICAS Phelios  4. DISPACE  5. SAMONICAS NIGRA  2. O Y TACM  4. DISPACE  5. SAMONICAS NIGRA  2. O Y TACM  6. TO STRAILIM (Pict size 3041 X 3041)  1. A YUNTH A ATTER O SAMONICAS NIGRA SIMPLE AND SAMONICAS NIGRAL SIMPLE AND SAMONICAS NIGRAL SIMPLE AND SAMONICAS NIGRAL SIMPLE AND SAMONICAS NIGRAL SAMONICAS NIG		0	= Total Cov	rer	
PACU species   X4 =   UPL species   X5 =   Column Totals:   (A)   (B)	50% of total cover:	20% of	total cover		
Prince   P	Sapling/Shrub Stratum (Plot size: 308+ X 308+)	,		_	
SAMON CAS NIGON   20	1. Pinus taeda		N		
Prevalence Index = B/A = Hydrophytic Vegetation Indicators:    Hydrophytic Vegetation Indicators:   1-Rapid Test for Hydrophytic Vegetation   V2-Dominance Test is >50%   23-Prevalence Index is \$3.0¹   Problematic Hydrophytic Vegetation   (Explain)	2. QUERCUS Phellos	_	N		
Hydrophylic Vegetation Indicators:   1	3. SAMBULAS nigra	20		FACIN	Column Totals: (A) (B)
Hydrophylic Vegetation Indicators:   1	4.				Prevalence Index = B/A =
1 Rapid Test for Hydrophytic Vegetation   2 Dominance Test is >50% of total cover:   1					
7. 8. 2 - Dominance Test is >50%  8. 3 - Prevalence Index is \$3.0'  Problematic Hydrophytic Vegetation¹ (Explain)  1. A Yunkin aria grantea 20 N FACW 2. A 11 um cernam 10 N FACW 3. Microsteg um vinineum 50 Y FACW 4. PERSICANIO 5P. 5 N UNK 5. Sephmeria cylindica 10 N FACW 6. Symphyotichum dumosum 5 N OBL 7. NOONNA 1 A reolata 5 N OBL 8. 9. 10					
8					
Problematic Hydrophytic Vegetation (Explain)  1. A Y LIM C LOT					
Some of total cover:   20% of total cover:   4.4		22	= Total Cov	rer	
1. Arandinaria gigantea 20 N FRCV 2. Alliam cernam 10 N FACU 3. Microstegiam vinineum 50 Y FACU 4. Persicaria SP. 5 N UNK 5. Bernardia Gigantea 10 N FACU 5. Bernardia Gigantea 10 N FACU 6. Symphyotichum dumosum 5 N OBL 8. 9.	50% of total cover:	20% of	total cover	4.4	
1. Arandinaria gigantea 20 N FRCV 2. Alliam cernam 10 N FACU 3. Microstegiam vinineum 50 Y FACU 4. Persicaria SP. 5 N UNK 5. Bernardia Gigantea 10 N FACU 5. Bernardia Gigantea 10 N FACU 6. Symphyotichum dumosum 5 N OBL 8. 9.	Herb Stratum (Plot size: 308+X3044)	_			<sup>1</sup> Indicators of hydric soil and wetland hydrology must
Definitions of Four Vegetation Strata:  3. Microsteg.um Vimineum 50 Y FAC 4. Persication 50. 5 N unk 5. Sephmetia cylindrica 10 N FACW 6. Symphyotrichum dumosum 5 N OBL 8.		20	N	FACW	be present, unless disturbed or problematic.
3. Mcrosteg.um vimineum 50 Y PAC 4. Persicario SP. 5 N UNK 5. Bophmerio cylindrica 10 N FACW 6. Symphyotrichum dumosum 5 N OBL 7. NOCUMANO 10 Areolata 5 N OBL 8. 9.			N	FACU	Definitions of Four Vegetation Strata:
4. Persication Sp. 5. Borner in cylindrica 10 N FACW 6. Symphyotrichum dumosum 5 N OBL 7. NOCOWAY in areolata 5 N OBL 8. 9. 10. 11. 12.  10.  10.  10.  10.  10.		50	Y	PAC	Tree Medy plants evaluding vines 3 in (7.6 cm) or
5. Bernmeria cytindica 10 N FACW 6. Symphyotichum dumosum 5 N OBL 7. NOCOWAYA A Areolata 5 N OBL 8.		5	N	UNK.	
Samphyotrichum du mosum S N OBL  7. NOCHUARA A CEOLARA S N OBL  8. Sp. Sp. Sp. Sp. Sp. Sp. Sp. Sp. Sp. Sp	5 Bophmeria cylindrica	10	N	FACW	
The control of the color of t		5	N	OBL	Santing/Shrub - Woody plants excluding vines, less
8		5	N	OBL	than 3 in. DBH and greater than 3.28 ft (1 m) tall.
9	10 10 10 10 10 10 10 10 10 10 10 10 10 1				Harb - All harbaceous (non-woody) plants regardless
10					
11					Manager day of the All wands of the greater than 3.38 ft in
12		A STATE OF THE PARTY OF THE PAR			
10   FACU					
50% of total cover: 52.5 20% of total cover: 21  Woody Vine Stratum (Plot size: 30 to 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		105	= Total Cov	/er	
Woody Vine Stratum (Plot size: 30ft X30ft)  1. Lonicera japonica 10 Y FACU  2	50% of total cover: 52.				4
1. LONICEPA JAPONICA  2	Woody Vine Stratum (Plot size 3041 X3084)				
2	1 Lonicera japonica	10	Y	FACU	
3					
4					
5 Hydrophytic Vegetation Present? Yes No			-		
50% of total cover: 20% of total cover: 2 Vegetation Present? Yes No	5				Undershite
50% of total cover: _ S _ 20% of total cover: _ 2 Present? Yes No	J	10	= Total Cox	/er	
	50% of total cover:			_	1
Remarks. (II observed, list morphological adaptations below).			total cover		
	Remarks: (ii observed, list morphological adaptations belo	· ).			
	) 22 <u>2</u> 20 10 10 10				

Profile Desc	cription: (Describe t	o the depth	needed to docum	ent the ir	ndicator	or confirm	the absence of la	ndicators.)	
Depth	Matrix			Features			T	Domoska	
(inches)	Color (moist)	90	Color (moist)	10	Type	Loc² .	Texture	Remarks	
0-2	104R3/2		10484/6	10			<1		
2-12	2.546/2	80	10484/6	20		_//\	5L_		
12-15	104R3/1	100					SL		
15-20	104RS/1	901	OURS/6	10	C	M	SL		
							2 =	D 11-1 14-14-1-1-	
	oncentration, D=Depl					ins.		Pore Lining, M=Matrix. Problematic Hydric Soil:	s <sup>3</sup> ,
	Indicators: (Applica	able to all L				BB 6 T III			.
Histosol			Polyvalue Bell Thin Dark Sul					(A10) (LRR S)	
	pipedon (A2) istic (A3)		Loamy Mucky					ertic (F18) (outside MLR	A 150A,B)
	en Sulfide (A4)		Loamy Gleye			•	Piedmont i	Floodplain Soils (F19) (LR	R P, S, T)
	d Layers (A5)		Depleted Mat	rix (F3)				Bright Loamy Soils (F20)	
	Bodies (A6) (LRR P,		Redox Dark S				(MLRA 1		
	ucky Mineral (A7) (LR		Depleted Dark					t Material (TF2) ow Dark Surface (TF12)	
	resence (A8) (LRR U) uck (A9) (LRR P, T)	,	Marl (F10) (L		,			lain in Remarks)	
	d Below Dark Surface	e (A11)	Depleted Och		(MLRA 15	51)			
	ark Surface (A12)		Iron-Mangane				,	s of hydrophytic vegetatio	
Coast P	rairie Redox (A16) (N					U)		hydrology must be prese	nt,
_	Mucky Mineral (S1) (L	.RR O, S)	Delta Ochric			04 4508)	unless	disturbed or problematic.	
	Gleyed Matrix (S4)		Reduced Veri Piedmont Flo				(A)		
_	Redox (S5) d Matrix (S6)						149A, 153C, 15	3D)	
	rface (S7) (LRR P, S	i, T, U)	_						
Restrictive	Layer (if observed):								
Type:									
Depth (in	ches):						Hydric Soll Pre	sent? Yes N	°
Remarks:						175571952			



Wetland data point wsup025e\_w facing northwest.



Wetland data point wsup025e\_w facing southeast.

Photo Sheet 1 of 3

Project/Site: ACP	City/County: Suffolk Sampling Date: 2/9/15
Applicant/Owner: Dom (nion	State: VA Sampling Point: WSup 025 - 0
Investigator(s): ESI-M.Smith, K.Murfhreu	Section Township Range: NA
Landform (hillslope, terrace, etc.): hill \$10 Pe	Local relief (concave, convex, none): CONVEX Slope (%):
	66783 Long: -76. 81924 Datum: W65 5
Soil Map Unit Name: Rains Fine Sandy load	. /
Are climatic / hydrologic conditions on the site typical for this time of y	
Are Vegetation, Soil, or Hydrology significant	y disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally p	roblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showin	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Remarks:	Is the Sampled Area within a Wetland? Yes No
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply	
Surface Water (A1) Aquatic Fauna (B	
High Water Table (A2) Marl Deposits (B1	
Saturation (A3) Hydrogen Sulfide Water Marks (B1) Oxidized Rhizosp	heres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2)  Presence of Redu	
	ction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surfac	
Iron Deposits (B5) Other (Explain in	—
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes NoDepth (inche	s): <u>NA</u>
Water Table Present? Yes No Depth (inche	s): 720
Saturation Present? Yes No Depth (inche	s): >20 Wetland Hydrology Present? Yes No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial pho	tos previous inspections) if available:
Describe Recorded Data (Stream gauge, monitoring wen, denarpho	ios, previous inspections), ii available.
Remarks:	
Tremens.	
	9

251/25	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 308+ X308+  1. Platanus Occidentalis	% Cover	Species	Status FACW	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2. GENETLUS albert	15	N	FACU	
3. Liriodendrun tulfpikera	20	N	FACU	Total Number of Dominant Species Across All Strata: (B)
4. Carpings cardiniana	30)	1	FAC	apecies Across Air Strata.
5. ACEY rulorum	10	KI	FAC	Percent of Dominant Species 67
6. Liquidombar Staracistaa	20	14	FAC	That Are OBL, FACW, or FAC: (A/B)
	1	-/4		Prevalence Index worksheet:
7				Total % Cover of:Multiply by:
8	105	=		OBL species x 1 =
57		= Total Co		FACW species x 2 =
50% of total cover: 52.	20% 0	total cove	. 41	FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 306+X30F4)	40	V	FAC	FACU species x 4 =
1. Carpinus caroliniana		-		UPL species x 5 =
2. Fagas grandifolia		N N	FACU	Column Totals: (A) (B)
3. Ilex oraca	->	N		(-)
4. Quercus alba			FACU	Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1_Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.01
		= Total Co		Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 30	20% of	total cover	12	
Herb Stratum (Plot size: 3 of 1 X 305)	~	^		<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1. ELONYMUS americanus		NA	-	be present, unless disturbed or problematic.
2. Polystichum acrostichoide			FACU	Definitions of Four Vegetation Strata:
3				Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of height.
5				neight.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb - All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine - All woody vines greater than 3.28 ft in
11				height.
12				
2		= Total Co		
50% of total cover:	20% of	total cover	r. 0.0	
Woody Vine Stratum (Plot size: 205+X305)	0 00	\ /	T1	
1. Lonicera japonica	0	<del>/</del>	FACU	
2.				
3				
4				
5				Hydrophytic
	20	= Total Co	ver ,	Vegetation
50% of total cover:	20% of	total cover	r:	Present? Yes No
Remarks: (If observed, list morphological adaptations belo	w).			
			45.872	

Depth							n the absence			
(Inchec)	Matrix Color (moist)	%	Color (moist)	x Features %	Type	Loc <sup>2</sup>	Texture		Remarks	
(inches)			Coo (IIIOst)		1100		FSL	-		
0- )	104R3/3	100								
5-14	2,545/3	100					FSL			
14-20	2.5(16/3	982	545/6	2	C	0	ESL			
11 00	212/10/	100	100,00							
-										
1Type: C=C	oncentration, D=Dep	etion, RM=Re	educed Matrix, Ma	S=Masked	Sand Gra	ins.	<sup>2</sup> Location:	PL=Pore Li	ning, M=Matri	х.
Hydric Soil	Indicators: (Applic	able to all LR	Rs, unless other	rwise note	d.)		Indicators	for Problem	natic Hydric	Soils <sup>3</sup> :
Histosol			Polyvalue Be			RRS.T.I	U) 1 cm	Muck (A9) (L	RR O)	
	pipedon (A2)		Thin Dark Su					Muck (A10) (		
	istic (A3)		Loamy Muck							MLRA 150A,B)
_	en Sulfide (A4)		Loamy Gleye	-		-1				(LRR P, S, T)
	d Layers (A5)		Depleted Ma		-/				Loamy Soils (	
	: Bodies (A6) (LRR P	T. UN	Redox Dark		3)		_	RA 153B)		
	ucky Mineral (A7) (LF		Depleted Da					arent Materi	al (TF2)	
A TO THE RESERVE AND A SECOND ASS.	resence (A8) (LRR U		Redox Depre						Surface (TF1	2)
	uck (A9) (LRR P, T)	,	Marl (F10) (L		,			(Explain in F		
	d Below Dark Surfac	e (Δ11)	Depleted Oc		MIRA 1	(1)	0	(Explain iii i	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
and the second second	ark Surface (A12)	c (A11)	Iron-Mangan			Series of the se	T) <sup>3</sup> Indi	cators of hyd	rophytic vege	tation and
	rairie Redox (A16) (F	JI PA 150A)	Umbric Surfa						gy must be p	
	Mucky Mineral (S1) (I		Delta Ochric			٠,			d or problema	
100 (00)	Gleyed Matrix (S4)	.KK 0, 3)	Reduced Ver			nA 150R		icaa alatarbo	a or problem	
			Piedmont Flo							
0.007.5-00	Redox (S5) d Matrix (S6)		Anomalous E					153D)		
		T 111	Anomalous i	Silgili Loan	iy cons (i	20) (11121	th 145h, 155t	, 1000,		
	rface (S7) (LRR P, S Layer (If observed):						T			
Jan 1990 1990 1990 1990 1990 1990 1990 199										/
Туре:		-	-							
Depth (in	ches):		_				Hydric Sol	l Present?	Yes	No
Remarks:										



Upland data point wsup025\_u facing northeast.



Upland data point wsup025\_u facing southeast.

Photo Sheet 3 of 3

WEILAND DETERMINATION DATA	FORM – Atlantic and Gulf Coastal Plain Region
Project/Site:	City/County: Sampling Date: 113 15
Applicant/Owner: DOMINIUN	State: VA Sampling Point: W540017f_v
	Section, Township, Range: N/A
	Local relief (concave, convex, none): None Slope (%): 0-2
	6,667122 Long: -76, 817975 Datum: W658
Soil Map Unit Name: Fains fine bandy loam	DED
Are climatic / hydrologic conditions on the site typical for this time of year	
Are Vegetation, Soil, or Hydrology significantly	
Are Vegetation, Soil, or Hydrology naturally pro	
SUMMARY OF FINDINGS - Attach site map showing	sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Remarks:  Yes No	Is the Sampled Area within a Wetland?  Yes No
NCWAM: Headwater 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) Aquatic Fauna (B13	
✓ High Water Table (A2) Marl Deposits (B15)	
Saturation (A3) Hydrogen Sulfide O	
Water Marks (B1) Oxidized Rhizosphe	eres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Reduce	ed Iron (C4) Crayfish Burrows (C8)
	ion in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface	
Iron Deposits (B5) Other (Explain in Re	
Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)	FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U)
Field Observations:	Spiragrium moss (DO) (ERR 1, D)
Surface Water Present? Yes NoX Depth (inches):	. NA
Water Table Present? Yes X No Depth (inches):	
Saturation Present? Yes No Depth (inches):	
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photo:	s, previous inspections), if available:
Remarks;	
10,	
I .	

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

Sampling Point: \_\_\_\_

20121fot	Absolute	Dominant	Indicator	Dominance Test worksheet:
1. ACLY rubrum	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:(A)
2. Platanus occidentalis		N	FACW	Total Number of Dominant Species Across All Strata: (B)
4.       5.				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7				
8				Total % Cover of: Multiply by:
- 1	72	= Total Cov	er, 1	OBL species x 1 =
50% of total cover: 3	20% of	total cover	14.4	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30 / 30 FT)	1070 12	1		FAC species x 3 =
1. Quercus michauxii	20	Y	FACW	FACU species x 4 =
2.			-	UPL species x 5 =
3				Column Totals: (A) (B)
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8	0.0			3 - Prevalence Index is ≤3.01
1.5	20	= Total Cov	rer _	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover:	20% of	total cover	5	
Herb Stratum (Plot size: 30x30++)  1. ANNOTINATIA gigantea	20	Y	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. W DON Warded areolata	10	V	0131	Definitions of Four Vegetation Strata:
3		•		
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
4				height.
5				
6 7			ACCOUNT OF THE PARTY OF THE PAR	Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8.				Herb – All herbaceous (non-woody) plants, regardless
9.				of size, and woody plants less than 3.28 ft tall.
10				Woody vine - All woody vines greater than 3.28 ft in
11				height.
42				3
	30	Total Cov	er	
50% of total cover: 15		total cover:	/	8
Woody Vine Stratum (Plot size: 30×30 ++)		×1		
1 VITIC WHING FORD	10	1	FAC	
25 Milly booth of folia	5	Y	DAT	
2. 4 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			111	
3				
4				
5	1/-			Hydrophytic
76	10:	= Total Cov	er	Vegetation Present? Yes No No
50% of total cover:	20% of	total cover:	9	Present res no
Remarks: (If observed, list morphological adaptations below	w).			
				İ
				*

_	_	٠	

Sampling Point: W540017f\_w

Profile Des	cription: (Describe Matrix	to the depth i		ment the in ox Features	dicator	or confirm	the absence	of Indicators.)
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type	Loc <sup>2</sup>	Texture	Remarks
0-20	1148 +11	90 11	DYRAILO	2	0	PL	CIL	
			111					
¹Type: C=C	oncentration, D=Dep	letion. RM=Re	duced Matrix, M	S=Masked S	Sand Gr	ains	<sup>2</sup> Location:	PL=Pore Lining, M=Matrix.
	Indicators: (Applic							for Problematic Hydric Solis <sup>3</sup> :
Histoso			Polyvalue Be			RRSTU		luck (A9) (LRR O)
	pipedon (A2)	-	Thin Dark Su					luck (A10) (LRR S)
	istic (A3)	-	Loamy Muck					ed Vertic (F18) (outside MLRA 150A, E
	en Sulfide (A4)	-	Loamy Gleye			,		ont Floodplain Soils (F19) (LRR P, S, T
	d Layers (A5)	-	X Depleted Ma		-,			lous Bright Loamy Soils (F20)
	Bodies (A6) (LRR P.	T. U)	Redox Dark		)			(A 153B)
	ucky Mineral (A7) (LF		Depleted Da		1000		•	arent Material (TF2)
	resence (A8) (LRR U		Redox Depre					hallow Dark Surface (TF12)
	ick (A9) (LRR P, T)	-	Marl (F10) (L	, ,				Explain in Remarks)
	d Below Dark Surface	(A11)	Depleted Oct		ILRA 1	51)		,
	ark Surface (A12)	_	Iron-Mangan				T) <sup>3</sup> Indica	ators of hydrophytic vegetation and
	rairie Redox (A16) (N	ILRA 150A)	Umbric Surfa					and hydrology must be present,
	Aucky Mineral (S1) (L		Delta Ochric					ess disturbed or problematic.
	Sleyed Matrix (S4)	_	Reduced Ver			OA. 150B)		
	Redox (S5)	_	Piedmont Flo				9A)	
	Matrix (S6)	-				•	A 149A, 153C,	153D)
	rface (S7) (LRR P, S	, T, U)			,	, ,		
	Layer (if observed):	-						
Type:								\/
Depth (in	ches):						Hydric Soil	Present? Yes X No
Remarks:							,	
Nomains.								
			10					



Wetland data point wsuo017f\_w facing northeast.



Wetland data point wsuo017f\_w facing northwest.

#### WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region Project/Site: \_\_\_\_ Applicant/Owner: \_ Investigator(s): Landform (hillslope, terrace, etc.): Subregion (LRR or MLRA): L.R.R. 36 667 066 Long: -76 817878 Soil Map Unit Name: Fains fine NWI classification: UP Are climatic / hydrologic conditions on the site typical for this time of year? Yes No \_\_\_\_\_ (If no, explain in Remarks.) Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) \_\_\_ Aquatic Fauna (B13) Sparsely Vegetated Concave Surface (B8) Surface Water (A1) High Water Table (A2) Marl Deposits (B15) (LRR U) Drainage Patterns (B10) Moss Trim Lines (B16) Saturation (A3) Hydrogen Sulfide Odor (C1) Water Marks (B1) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Sediment Deposits (B2) Presence of Reduced Iron (C4) Cravfish Burrows (C8) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Algal Mat or Crust (B4) Geomorphic Position (D2) \_ Thin Muck Surface (C7) Shallow Aquitard (D3) Iron Deposits (B5) Other (Explain in Remarks) Inundation Visible on Aerial Imagery (B7) FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Saturation Present? Wetland Hydrology Present? Yes \_ Depth (inches): \_ (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

20N2MF+	Absolute	Dominant	Indicator	Dominance Test worksheet:
1. Acer rubrum	% Cover 20	Species	Status	Number of Dominant Species That Are OBL, FACW, or FAC:(A)
2. Liquidambar styraciflua 3. Albizia julibrissin	10	X	FACU	Total Number of Dominant Species Across All Strata: (B)
4. Carya illinoiensis	10	Y	FACU	Percent of Dominant Species 70
5				That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8	150			OBL species x 1 =
50% of total cover: 22.		= Total Co		FACW species x 2 =
50% of total cover: 22.	20% of	total cover		FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 3(1/3071)  1. Sassatras albidum	12	4	FACY	FACU species x 4 =
	-			UPL species x 5 =
2				Column Totals: (A) (B)
3				Courting Folders.
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0¹
-		= Total Co		Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover:	20% of	total cover	2	
Herb Stratum (Plot size: 20 X30ft)  1. Campsis radicans	10	V	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Asplenium Platunguron	5	7	FACU	Definitions of Four Vegetation Strata:
		-	FAC	Deminions of Four Vegetation Strata.
3. Liguetrum sinense				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of height.
5				neight.
6				Sapling/Shrub - Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb - All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12				
1.0	20 :	= Total Cov	er 1	
50% of total cover:	20% of	total cover	:_4_	
Woody Vine Stratum (Plot size: 30x30f+ )	_	11		
1. Toxicodendron radicans	5	Υ	FAC	
2. Vitis rotundifolia	16	Y	FAC	
3. Smilax rotundifolia	10	Y	FAC	
4				
5.				
5	250	Total Cov		Hydrophytic Vegetation
50% of total cover: 2-0				Present? Yes No
	2020	total cover		
Remarks: (If observed, list morphological adaptations belo	w).			

	A	) buy		
WSUO	n			/ A
MADINO	$\mathbf{v}$	, ,	-	~

SOIL

	WSUO	10	1-	u
Sampling	Point:			

. Tomo poscription. (poscribe to the deb	h needed to document the Indicator or confire	m the absence of indicators.)
Depth Matrix	Redox Features	T
(inches) Color (moist) %	Color (moist) % Type <sup>1</sup> Loc <sup>2</sup>	Texture Remarks
0-10 104R A 3 100		LEUM
10-20 10 yr 312 100		Loam
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=	Reduced Matrix, MS=Masked Sand Grains.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all		Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Polyvalue Below Surface (S8) (LRR S, T, I	U) 1 cm Muck (A9) (LRR O)
Histic Epipedon (A2)	Thin Dark Surface (S9) (LRR S, T, U)	2 cm Muck (A10) (LRR S)
Black Histic (A3)	Loamy Mucky Mineral (F1) (LRR O)	Reduced Vertic (F18) (outside MLRA 150A,B)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Piedmont Floodplain Soils (F19) (LRR P, S, T)
Stratified Layers (A5)	Depleted Matrix (F3)	Anomalous Bright Loamy Soils (F20)
Organic Bodies (A6) (LRR P, T, U)	Redox Dark Surface (F6)	(MLRA 153B)
5 cm Mucky Mineral (A7) (LRR P, T, U)	Depleted Dark Surface (F7)	Red Parent Material (TF2)
Muck Presence (A8) (LRR U)	Redox Depressions (F8)	Very Shallow Dark Surface (TF12)
1 cm Muck (A9) (LRR P, T)	Marl (F10) (LRR U)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Ochric (F11) (MLRA 151)	- 3
Thick Dark Surface (A12)	Iron-Manganese Masses (F12) (LRR O, P,	
	Umbric Surface (F13) (LRR P, T, U)	wetland hydrology must be present, unless disturbed or problematic.
<ul><li>Sandy Mucky Mineral (S1) (LRR O, S)</li><li>Sandy Gleyed Matrix (S4)</li></ul>	Delta Ochric (F17) (MLRA 151) Reduced Vertic (F18) (MLRA 150A, 150B)	·
Sandy Redox (S5)	Piedmont Floodplain Soils (F19) (MLRA 14	50 - 19 - 19 - 19 - 19 - 19 - 19 - 19 - 1
Stripped Matrix (S6)	Anomalous Bright Loamy Soils (F20) (MLR	
Dark Surface (S7) (LRR P, S, T, U)	/ worked bright Loans, boils (i Lo) (which	
Restrictive Layer (if observed):		
Type:		Hydric Soll Present? Yes No
Type: Depth (inches):		Hydric Soli Present? Yes No
Type:		Hydric Soll Present? Yes No
Type: Depth (inches):		Hydric Soll Present? Yes No
Type: Depth (inches):		Hydric Soll Present? Yes No
Type: Depth (inches):		Hydric Soll Present? Yes No
Type: Depth (inches):		Hydric Soll Present? Yes No
Type: Depth (inches):		Hydric Soll Present? Yes No
Type: Depth (inches):		Hydric Soll Present? Yes No
Type: Depth (inches):		Hydric Soll Present? Yes No
Type: Depth (inches):		Hydric Soll Present? Yes No
Type: Depth (inches):		Hydric Soll Present? Yes No
Type: Depth (inches):		Hydric Soll Present? Yes No
Type: Depth (inches):		Hydric Soll Present? Yes No
Type: Depth (inches):		Hydric Soll Present? Yes No
Type: Depth (inches):		Hydric Soll Present? Yes No
Type: Depth (inches):		Hydric Soll Present? Yes No
Type: Depth (inches):		Hydric Soll Present? Yes No
Type: Depth (inches):		Hydric Soll Present? Yes No
Type: Depth (inches):		Hydric Soll Present? Yes No
Type: Depth (inches):		Hydric Soll Present? Yes No
Type: Depth (inches):		Hydric Soll Present? Yes No
Type: Depth (inches):		Hydric Soll Present? Yes No
Type: Depth (inches):		Hydric Soll Present? Yes No
Type: Depth (inches):		Hydric Soll Present? Yes No
Type: Depth (inches):		Hydric Soll Present? Yes No



Upland data point wsuo017\_u facing southwest.



	M – Atlantic and Guif Coastal Plain Region
Project/Site: ACP City/C	County: SOUTHAMPTON Sampling Date: 10 21 10
Applicant/Owner: DVMININ	State: VA Sampling Point: WSuo 020f
	on, Township, Range:
Landform (hillslope, terrace, etc.): Flatwoods Local	I relief (concave, convex, none): NONE Slope (%): 0 - 9
Subregion (LRR or MLRA): LRRT Lat: 36, 66	782 Long: -76.808717 Datum: WGS9
Soil Map Unit Name: Rains fine sandy 10 am	
Are climatic / hydrologic conditions on the site typical for this time of year?	V
Are Vegetation, Soil, or Hydrology significantly distur	V
Are Vegetation, Soil, or Hydrology naturally problem	
SUMMARY OF FINDINGS – Attach site map showing san	npling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes _X_ No	Is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes No
Wetland Hydrology Present? YesX No	Within a Vettand 1 165 NO
Remarks:	
NCWAM: Headwater Forest	
HYDROLOGY	
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8)
Surface Water (A1) Aquatic Fauna (B13) High Water Table (A2) Marl Deposits (B15) (LRI	
Saturation (A3)  Hydrogen Sulfide Odor (6)	
Water Marks (B1) — Oxidized Rhizospheres a	THE STATE OF THE S
Sediment Deposits (B2)  Presence of Reduced Iro	
Drift Deposits (B3) Recent Iron Reduction in	
Algal Mat or Crust (B4) Thin Muck Surface (C7)	Geomorphic Position (D2)
Iron Deposits (B5) Other (Explain in Remark	ks) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	N/A
Surface Water Present? Yes No X Depth (inches):	(1)
vvater rable Present? Yes No Depth (inches):	20
Saturation Present? Yes No Depth (inches): (includes capillary fringe)	Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:
	,
Remarks:	Supplier of the result of the
B B	

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

Sampling Point: WSU DOZDF-W

20 V 20 FL	Absolute	Dominant	Indicator	Dominance Test worksheet:
1. Quercus phellos	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:  (A)
2. Carpinus caroliniana.	10		FAC	Total Number of Dominant Species Across All Strata:  (B)
3 4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: (A/B)
7.				Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
0	45	= Total Cov	er.	OBL species x 1 =
50% of total gover: 22 C				FACW species x 2 =
711/71/1		total cover		FAC species x 3 =
Sapling/Shrub Stratum (Plot size:	20	Y	FAC	FACU species x 4 =
Sapling/Shrub Stratum (Plot size: 30 x 5017)  1. Carpinus caroliniana  2. TIEX OPM (4	000	7	FAC	UPL species x 5 =
3.				Column Totals: (A) (B)
4	California (San California (Sa			Prevalence Index = B/A =
5.				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				∠ 2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.01
		= Total Co		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
50% of total cover:	_ 20% of	total cover	9	_
Herb Stratum (Plot size: 30 430++)  1. Athyrium as plenoides	16	Y	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Dsmindustrum Linnamomea		V	FACW	Definitions of Four Vegetation Strata:
3. Woodwardia areolata	15	-7	OBL	Dell'illions of Four Vegetation Strata.
	0	1	FACW	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Clethra alnifolia		17		more in diameter at breast height (DBH), regardless of height.
5. Quercus alba		-1	FACU	
6. Ilex opaca		_N_	FAL	Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7				
9.				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12.				
	50	= Total Co	/er	
50% of total cover: 25		f total cover		
Woody Vine Stratum (Plot size: 30 x 30 ft)				
1 Smilax rotandifolia	5	Y	FAL	
2 Toxicodendron radicans		V	FAL	
	->-	<del></del>	1	
3				
4				Andrew Control
5	(P)			Hydrophytic
4		= Total Co	10	Vegetation   Present?   Yes   No
50% of total cover:1		f total cover	- 17 4	
Remarks: (If observed, list morphological adaptations below	w).			
				(4)

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)							
Depth Matrix		x Features			-		
(inches) Color (moist) %	Color (moist)		pe Loc²	Texture _	Remarks		
0-0 10 1R2/2 100	10340-111	10	1 1				
6-12 104R 612 90	10 AKOLD	10 C	M	<u> </u>			
12-20 104R511 85	INVRUE 9	15 C	M	LS			
-	101. 10						
						· .	
<u> </u>							
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=	Reduced Matrix, MS	S=Masked San	d Grains.	<sup>2</sup> Location: P	L=Pore Lining, M=Matr	ix.	
Hydric Soil Indicators: (Applicable to all L	RRs, unless other	rwise noted.)		Indicators fo	r Problematic Hydric	Solls <sup>3</sup> :	
Histosol (A1)	Polyvalue Be	low Surface (S	8) (LRR S, T,	U) 1 cm Muc	ck (A9) (LRR O)		
Histic Epipedon (A2)	Thin Dark Su	ırface (S9) (LR	R S, T, U)		ck (A10) (LRR S)		
Black Histic (A3)		y Mineral (F1)	(LRR O)		Vertic (F18) (outside		
Hydrogen Sulfide (A4)		d Matrix (F2)			t Floodplain Soils (F19)		
Stratified Layers (A5)	Depleted Ma Redox Dark			A STATE OF THE PARTY OF THE PAR	us Bright Loamy Soils	(F20)	
Organic Bodies (A6) (LRR P, T, U)  5 cm Mucky Mineral (A7) (LRR P, T, U)		rk Surface (F6)		(MLRA	ent Material (TF2)		
Muck Presence (A8) (LRR U)	Redox Depre				llow Dark Surface (TF	12)	
1 cm Muck (A9) (LRR P, T)	Marl (F10) (L				(plain in Remarks)	. =/	
Depleted Below Dark Surface (A11)		hric (F11) (MLF	RA 151)				
Thick Dark Surface (A12)	Iron-Mangan	ese Masses (F	12) (LRR O, I	P, T) <sup>3</sup> Indicate	ors of hydrophytic vege	tation and	
Coast Prairie Redox (A16) (MLRA 150A		ce (F13) (LRR	6 6 6 6		nd hydrology must be p		
Sandy Mucky Mineral (S1) (LRR O, S)		(F17) (MLRA			s disturbed or problema	itic.	
Sandy Gleyed Matrix (S4)		rtic (F18) (MLR		Di Piller Lacerooma			
Sandy Redox (S5)		odplain Soils (		149A) .RA 149A, 153C, 1	530)		
Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U)	Anomalous E	signt Loanly S	0115 (F20) (INL	.KA 143A, 1330, 1	330)		
Restrictive Layer (if observed):				T			
Type:							
Depth (inches):				Hydric Soll Pi	resent? Yes 🗶	No	
Remarks:				1.7			
Remarks.							
				1			



Wetland data point wsuo020f\_w facing southeast.



Wetland data point wsuo020f\_w facing northwest.

WETLAND DETERMINATION DATA	FORM – Atlantic and Gulf Coastal Plain Region
Project/Site: ACP	City/County: SuffOlk Sampling Date: 10/21/15
Applicant/Owner: D/M/N/N	State: A Sampling Point: W5u0020-u
Investigator(s): L. RIPLY, S. IOSEFEI	Section, Township, Range:Section, Township, Range:
Landform (hillslope, terrace, etc.): Prainage	Local relief (concave, convex, none): Loncave Slope (%): 5-10
	66782 Long: -76.808644 Datum: MOSE 4
Soil Map Unit Name: Rains fine sandy loan	NWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time of y	
Are Vegetation, Soil, or Hydrology significantl	,
Are Vegetation, Soil, or Hydrology naturally p	
	g sampling point locations, transects, important features, etc.
- Attach site map showin	g sampling point locations, transects, important leatures, etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Yes No Yes No X	Is the Sampled Area within a Wetland? Yes No
Remarks:	,
m 0/25/ 0/25	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	
Surface Water (A1) Aquatic Fauna (B	
High Water Table (A2)  Marl Deposits (B1	
Saturation (A3) Hydrogen Sulfide Water Marks (B1) Oxidized Rhizosph	
Sediment Deposits (B2)  — Presence of Redu	heres along Living Roots (C3) Dry-Season Water Table (C2)
	ction in Tilled Soils (C6)  Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface	
Iron Deposits (B5) Other (Explain in F	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No Depth (inches	s): 1V/A
Water Table Present? Yes No Depth (inches	s): <u>&gt;20</u>
Saturation Present? Yes X No Depth (inches includes capillary fringe)	s): Wetland Hydrology Present? Yes No _X
Describe Recorded Data (stream gauge, monitoring well, aerial photo	os, previous inspections), if available:
Remarks:	

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

20 V211++	Absolute			Dominance Test worksheet:
Tree Stratum (Plot size: 30 X20++)	% Cover	Species?		Number of Dominant Species That Are ORL FACW or FAC:  (A)
1. PINIS TARAU	30	1	FAC	That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Species Across All Strata: (B)
4				Research of Descinant Species
5.				Percent of Dominant Species That Are OBL, FACW, or FAC: 53 1/2 (A/B)
6.				
7.				Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
o	20	= Total Co	·05	OBL species x 1 =
16	300		10	FACW species x 2 =
50% of total cover:	20% of	total cover	: <u></u>	FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 20 X 20 FT)	20	V	FAC	FACU species x 4 =
1. Nyssa sylvatica		-	FAL	UPL species x 5 =
2 Acer rubrum	10			Column Totals: (A) (B)
3. Liriodendron tulipifera	10	4	FACU	Coldinii Totals (A) (5)
4. Quercus alba	6	N	FACU	Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6.				1 - Rapid Test for Hydrophytic Vegetation
7.				× 2 - Dominance Test is >50%
8.				3 - Prevalence Index is ≤3.0¹
	40.	Total Co	ver	
50% of total cover: 22	720% of	total cover	9	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Herb Stratum (Plot size: 30 X 30 ft.)	20 /0 01	total cover		
1. Clethra alnifolia	15	Y	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
	8.0	V		
2. Arundinaria gigantea	10		FACW	Definitions of Four Vegetation Strata:
3				Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4.				more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub - Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8.				Herb - All herbaceous (non-woody) plants, regardless
9.				of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in height.
11				neight.
12	00			
12.	25	= Total Co	ver g	
50% of total cover: 12.	20% of	total cove	r:	
Woody Vine Stratum (Plot size: 31)				77
1. hone				
2				
3				
4.				
5.				Hydrophytic
	()	= Total Co	ver	Vegetation
50% of total cover:				Present? Yes No No
Remarks: (If observed, list morphological adaptations believed)				
Remarks. (If observed, list morphological adaptations ber	OW).			

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)							
Depth Matrix	Redox Features						
(inches) Color (moist) %	Color (moist) % Type <sup>1</sup> Loc <sup>2</sup>	Texture Remarks					
0-10 10 YR 2/2 100		LS					
(0-20) 10YR 5110 950	10VR 619 15 C M	()					
	Reduced Matrix, MS=Masked Sand Grains.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.					
Hydric Soil Indicators: (Applicable to all		Indicators for Problematic Hydric Soils <sup>3</sup> :					
Histosol (A1)	Polyvalue Below Surface (S8) (LRR S, T,						
Histic Epipedon (A2)	Thin Dark Surface (S9) (LRR S, T, U)	2 cm Muck (A10) (LRR S)					
Black Histic (A3)	Loamy Mucky Mineral (F1) (LRR O)	Reduced Vertic (F18) (outside MLRA 150A,B)					
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Piedmont Floodplain Soils (F19) (LRR P, S, T)					
Stratified Layers (A5)	Depleted Matrix (F3)	Anomalous Bright Loamy Soils (F20)					
Organic Bodies (A6) (LRR P, T, U)	Redox Dark Surface (F6)	(MLRA 153B)					
5 cm Mucky Mineral (A7) (LRR P, T, U)		Red Parent Material (TF2) Very Shallow Dark Surface (TF12)					
Muck Presence (A8) (LRR U) 1 cm Muck (A9) (LRR P, T)	Redox Depressions (F8) Marl (F10) (LRR U)	Other (Explain in Remarks)					
Depleted Below Dark Surface (A11)	Depleted Ochric (F11) (MLRA 151)	Other (Explain in Remarks)					
Thick Dark Surface (A12)	Iron-Manganese Masses (F12) (LRR O, P	T) 3Indicators of hydrophytic vegetation and					
Coast Prairie Redox (A16) (MLRA 150A		wetland hydrology must be present,					
Sandy Mucky Mineral (S1) (LRR O, S)	Delta Ochric (F17) (MLRA 151)	unless disturbed or problematic.					
Sandy Gleyed Matrix (S4)	Reduced Vertic (F18) (MLRA 150A, 150B	)					
Sandy Redox (S5)	Piedmont Floodplain Soils (F19) (MLRA 1	( )					
Stripped Matrix (S6)	Anomalous Bright Loamy Soils (F20) (MLF						
Dark Surface (S7) (LRR P, S, T, U)							
Restrictive Layer (if observed):							
Туре:							
Depth (inches):		Hydric Soil Present? Yes No					
Remarks:							
		1					



Upland data point wsuo020\_u facing north.



Upland data point wsuo020\_u facing east.

Project/Site: Atlantic Coast Pipeline	City/County: City of	f Suffolk	_ Sampling Date: 9/22/2015		
Applicant/Owner: Dominion		State: VA	Sampling Date: 9/22/2015 Sampling Point: wsua076e_w		
Investigator(s): GB, SA					
	Local relief (concav				
			Datum: WGS 1984		
Soil Map Unit Name: Rains fine sandy loam		NWI classif	ication: PFO1C, PUBH		
Are climatic / hydrologic conditions on the site typical for this					
Are Vegetation, Soil, or Hydrology sig					
Are Vegetation, Soil, or Hydrology na					
SUMMARY OF FINDINGS – Attach site map s					
Hydrophytic Vegetation Present? Yes _ ✔ No					
Hydric Soil Present? Yes No	is the Samp				
Wetland Hydrology Present? Yes <u>✓</u> No		tland? Yes	No		
Remarks:					
Wetland data point for PEM porition of an extensive saturate power line ROW and adjacent recent clear cut; sandy clay B cut 2-3 years ago. Logging disturbance has created comple	horizon limits infiltration and	perches water in some area	as. Timber appears to have been		
HYDROLOGY					
Wetland Hydrology Indicators:		Secondary India	cators (minimum of two required)		
Primary Indicators (minimum of one is required; check all the	at apply)	Surface So	il Cracks (B6)		
Surface Water (A1) Aquatic F	auna (B13)	Sparsely V	egetated Concave Surface (B8)		
High Water Table (A2) Marl Dep	osits (B15) <b>(LRR U)</b>	Drainage P	atterns (B10)		
	Sulfide Odor (C1)	Moss Trim			
	Rhizospheres along Living Ro		n Water Table (C2)		
	of Reduced Iron (C4)	Crayfish Bu			
	on Reduction in Tilled Soils (C		Visible on Aerial Imagery (C9)		
	k Surface (C7)		Geomorphic Position (D2)  ✓ Shallow Aquitard (D3)		
Iron Deposits (B5) Other (Ex Inundation Visible on Aerial Imagery (B7)	plain in Remarks)		FAC-Neutral Test (D5)		
Water-Stained Leaves (B9)		<del></del>	moss (D8) <b>(LRR T, U)</b>		
Field Observations:		Opinagrium	111033 (D0) (ERR 1, 0)		
Surface Water Present? Yes No Dept	h (inches):				
Water Table Present? Yes No Dept					
Saturation Present? Yes No Dept	· · · · · · · · · · · · · · · · · · ·	Wetland Hydrology Prese	ent? Yes V No		
(includes capillary fringe)		, ,,	int: les No		
Describe Recorded Data (stream gauge, monitoring well, as	erial photos, previous inspecti	ons), if available:			
Domesto					
Remarks:					

20		Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:) 1	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC: 6 (A)
2				Total Number of Dominant Species Across All Strata: 7 (B)
3				Species Across All Strata: (B)
4.       5.				Percent of Dominant Species That Are OBL, FACW, or FAC: 85.71428571 (A/B)
6				Prevalence Index worksheet:
7				
8				Total % Cover of: OBL species  35  x 1 = 35
		= Total Cov		OBL species
50% of total cover:0	20% of	total cover:	0	FACVV species X Z =
Sapling/Shrub Stratum (Plot size:)	á	V	E A O\A/	FAC species 4 x 3 = 12 FACU species 15 x 4 = 60
1. Clethra alnifolia	3	Yes Yes	FACW	UPL species 0 x 5 = 0
2. Magnolia virginiana	2		FACW	Column Totals: 106 (A) 211 (B)
3. Liquidambar styraciflua	2	No No	FAC	
4. Acer rubrum		No	FAC	Prevalence Index = B/A =1.99
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				✓ 2 - Dominance Test is >50%
8				✓ 3 - Prevalence Index is ≤3.0¹
	11	= Total Cov		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
50% of total cover: 5.5	20% of	total cover:	2.2	
Herb Stratum (Plot size:5 ) 1. Scirpus cyperinus	25	Yes	OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Arundinaria gigantea	20	Yes	FACW	Definitions of Four Vegetation Strata:
3. Panicum dichotomiflorum	10	Yes	FACW	
4. Eupatorium capillifolium	10	Yes	FACU	<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5. Eleocharis palustris	10	Yes	OBL	height.
6. Echinochloa crus-galli	5	No	FACW	Continue/Charles Mandy plants evaluating vines loss
7. Eupatorium perfoliatum	5	No	FACW	Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8. Sporobolus indicus	5	No	FACU	
9. Solidago gigantea	5	No	FACW	<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10.	-			
				<b>Woody vine</b> – All woody vines greater than 3.28 ft in
11				height.
12	95	= Total Cov		
50% of total cover: 47.5		total cover:		
30 % of total cover.	20% 01	lotal cover.		
/ lot 0:201				
1				
2				
3				
4				
5				Hydrophytic
0		= Total Cov	^	Vegetation Present? Yes No
50% of total cover:0		total cover:		1105CHL. 105 NO
Remarks: (If observed, list morphological adaptations below	w).			

SOIL Sampling Point: wsua076e\_w

Profile Desc	ription: (Describe	o the dep	th needed to docum	ent the i	ndicator	or confirm	the absence of	of indicators.)			
Depth	Matrix		Redox Features								
(inches) 0-5	Color (moist) 10YR 2/2	<u>%</u> 100	Color (moist)	<u></u> %	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u> SL	Remarks			
5-10	10YR 3/1	93	7.5YR 4/6	7	C	PL/M	SCL				
10-20	10YR 4/1	85	7.5YR 4/6	15	С	PL/M	SC				
								_			
			Reduced Matrix, MS			ains.		PL=Pore Lining, M=Matrix.			
-		able to all	LRRs, unless other			DD 0 T 11		or Problematic Hydric Soils <sup>3</sup> :			
Histosol	(A1) pipedon (A2)		Polyvalue Bel Thin Dark Su					uck (A9) <b>(LRR O)</b> uck (A10) <b>(LRR S)</b>			
	stic (A3)		Loamy Mucky					d Vertic (F18) (outside MLRA 150A,B)			
	en Sulfide (A4)		Loamy Gleye			-,		nt Floodplain Soils (F19) (LRR P, S, T)			
Stratified	d Layers (A5)		✓ Depleted Mat	rix (F3)			Anomalo	ous Bright Loamy Soils (F20)			
_	Bodies (A6) (LRR P,		Redox Dark S					A 153B)			
	icky Mineral (A7) (LR							rent Material (TF2)			
	esence (A8) (LRR U) ick (A9) (LRR P, T)	)	Redox Depre		3)			allow Dark Surface (TF12) Explain in Remarks)			
	d Below Dark Surface	e (A11)	Depleted Och		(MLRA 1	51)	Other (E	Explain in Remarks)			
	ark Surface (A12)	,	Iron-Mangane				T) <sup>3</sup> Indica	itors of hydrophytic vegetation and			
Coast P	rairie Redox (A16) <b>(N</b>	ILRA 150	A) Umbric Surface	ce (F13) <b>(</b>	LRR P, T	, U)		and hydrology must be present,			
-	Mucky Mineral (S1) (L	RR O, S)	Delta Ochric (				unles	ss disturbed or problematic.			
	Gleyed Matrix (S4)		Reduced Verl				0.4)				
-	Redox (S5) Matrix (S6)		Piedmont Flo				9A) A 149A, 153C, ¹	153D)			
	rface (S7) <b>(LRR P, S</b>	, T, U)	/ triomalous B	ngni Loan	ny cono (i	20) (MEIV)	1402, 1000,	1005/			
Restrictive I	Laver (if observed):	,									
Type: sar	ndy clay										
Depth (in	ches): <u>10</u>						Hydric Soil F	Present? Yes No			
Remarks:							I				



Photo 1 Wetland data point wsua076e\_w facing east



Photo 2
Wetland data point wsua076e\_w facing west

Project/Site: Atlantic Coast Pipeline	City/County: City of	Suffolk	_ Sampling Date: 9/22/2015		
Applicant/Owner: Dominion		State: VA	Sampling Date: 9/22/2015 Sampling Point: wsua076s_w		
Investigator(s): GB, SA					
			ography Slope (%): 2		
			Datum: WGS 1984		
Soil Map Unit Name: Nansemond fine sandy loam, 0 to 2 percent	slopes	NWI classif	ication: None		
Are climatic / hydrologic conditions on the site typical for this time					
Are Vegetation, Soil, or Hydrology signific					
Are Vegetation, Soil, or Hydrology natura SUMMARY OF FINDINGS – Attach site map show					
Hydrophytic Vegetation Present? Yes No					
Hydric Soil Present? Yes   ✓ No  Wetland Hydrology Present? Yes ✓ No	willilli a wel	land? Yes	No		
Remarks:					
Wetland data point for the PSS porition of an extensive saturated existing power line ROW and adjacent recent clear cut; sandy cl. have been cut 2-3 years ago. Logging disturbance has created mapped extent.	ay B horizon limits infiltrati	on and perches water in so	ome areas. Timber appears to		
HYDROLOGY					
Wetland Hydrology Indicators:		Secondary Indic	cators (minimum of two required)		
Primary Indicators (minimum of one is required; check all that a	oply)	Surface So	il Cracks (B6)		
Surface Water (A1) Aquatic Faun:	a (B13)	Sparsely Ve	egetated Concave Surface (B8)		
High Water Table (A2) Marl Deposits	(B15) <b>(LRR U)</b>	Drainage P	atterns (B10)		
Saturation (A3) Hydrogen Sul	fide Odor (C1)	Moss Trim	Lines (B16)		
Water Marks (B1) Oxidized Rhiz	ospheres along Living Ro	ots (C3) Dry-Seasor	n Water Table (C2)		
Sediment Deposits (B2) Presence of F	Reduced Iron (C4)	Crayfish Bu	Crayfish Burrows (C8)		
Drift Deposits (B3) Recent Iron R	eduction in Tilled Soils (C	6) Saturation \	Saturation Visible on Aerial Imagery (C9)		
Algal Mat or Crust (B4) Thin Muck Su	rface (C7)	Geomorphic Position (D2)			
Iron Deposits (B5) Other (Explain	n in Remarks)	Shallow Aquitard (D3)			
Inundation Visible on Aerial Imagery (B7)		FAC-Neutra	` '		
Water-Stained Leaves (B9)		Sphagnum	moss (D8) (LRR T, U)		
Field Observations:					
Surface Water Present? Yes No Depth (in					
Water Table Present? Yes No Depth (in	· · · · · · · · · · · · · · · · · · ·				
Saturation Present? Yes No Depth (in (includes capillary fringe)	ches): \	Wetland Hydrology Prese	ent? Yes <u>/</u> No		
Describe Recorded Data (stream gauge, monitoring well, aerial	photos, previous inspection	ons), if available:			
Remarks:					

20		Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:) 1	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:8 (A)
2				Total Number of Dominant Species Across All Strata: 9 (B)
4.				\
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 88.88888888 (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8	0			OBL species15 x 1 =15
50% of total cover:		= Total Cov	Λ	FACW species58
50% of total cover:Sapling/Shrub Stratum (Plot size:15)	20% 01	total cover:		FAC species30
1. Clethra alnifolia	12	Yes	FACW	FACU species x 4 = 92
2. Magnolia virginiana	8	Yes	FACW	UPL species
3. Acer rubrum	7	Yes	FAC	Column Totals:(A)(B)
4. Symplocos tinctoria	5	No	FAC	Prevalence Index = B/A = 2.52
5. Pinus taeda	3	No	FAC	Hydrophytic Vegetation Indicators:
6. Vaccinium corymbosum	3	No	FACW	1 - Rapid Test for Hydrophytic Vegetation
7. Oxydendrum arboreum	3	No	FACU	✓ 2 - Dominance Test is >50%
8. Sassafras albidum	2	No	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>
	45	= Total Cov	er	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
50% of total cover:22.5	20% of	total cover:	9	<u> </u>
Herb Stratum (Plot size:)				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1. Andropogon glomeratus	20	Yes	FACW	be present, unless disturbed or problematic.
2. Scirpus cyperinus	15	Yes	OBL	Definitions of Four Vegetation Strata:
3. Eupatorium capillifolium	15	Yes	FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Panicum dichotomiflorum	15	Yes	FACW	more in diameter at breast height (DBH), regardless of
5. Sporobolus indicus	3	No	FACU	height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12				
	68	= Total Cov	er	
50% of total cover: 34	20% of	total cover:	13.6	
Woody Vine Stratum (Plot size: 30 )				
1. Vitis rotundifolia	10	Yes	FAC	
2. Smilax rotundifolia	5	Yes	FAC	
3				
4				
5.				Hydrophytic
	15	= Total Cov	er	Vegetation
50% of total cover: 7.5	20% of	total cover:	3	Present? Yes No No
Remarks: (If observed, list morphological adaptations below	w).			1
(,,,,	/-			

SOIL Sampling Point: wsua076s\_w

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth Matrix				x Feature		. 2		
(inches) 0-4	Color (moist) 10YR 2/1	<u>%</u> 100	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture SL	Remarks
4-8	10YR 3/1	100					SL	
8-11	10YR 4/2	97	10YR 5/6	3	С	PL/M	SL	
11-20	10YR 5/2	92	10YR 4/6	8	C	PL/M	SCL	
Type: C=C Hydric Soil  Histosol Histic E Black H Hydroge Stratifie Organic 5 cm Mi Muck P 1 cm Mi L Deplete Thick D Coast P Sandy N Sandy N Sandy F Strippec Dark Su Restrictive	oncentration, D=Deplation (A1) pipedon (A2) sistic (A3) en Sulfide (A4) d Layers (A5) Bodies (A6) (LRR P, acky Mineral (A7) (LR Pesence (A8) (LRR U) ack (A9) (LRR P, T) d Below Dark Surface ark Surface (A12) rairie Redox (A16) (Macky Mineral (S1) (LE) Gleyed Matrix (S4) Redox (S5) I Matrix (S6) rface (S7) (LRR P, S, Layer (if observed):	T, U)  (A11)  LRA 150A  RR O, S)	Reduced Matrix, MS LRRs, unless other Polyvalue Be Thin Dark Su Loamy Mucky Loamy Gleye  Depleted Mat Redox Dark S Depleted Dar Redox Depre Marl (F10) (L Depleted Oct Iron-Mangane Umbric Surfa Delta Ochric Reduced Ver Piedmont Flo	S=Masked wise not low Surfa rface (S9 y Mineral d Matrix ( trix (F3) Surface (F14) ese Mass ce (F13) (F17) (ML tic (F18) ( odplain S	d Sand Graded.) ace (S8) (L ) (LRR S, (F1) (LRR (F2) (G) (MLRA 15) (MLRA 15) (MLRA 15) (MLRA 15) (MLRA 15)	ains.  RR S, T, U T, U) O)  OA, 150B) (MLRA 149	<sup>2</sup> Location: PL= Indicators for I  ) 1 cm Muck 2 cm Muck Reduced V Piedmont F Anomalous	(A10) (LRR S) ertic (F18) (outside MLRA 150A,B) floodplain Soils (F19) (LRR P, S, T) Bright Loamy Soils (F20) 53B) Material (TF2) W Dark Surface (TF12) Iain in Remarks) S of hydrophytic vegetation and hydrology must be present, listurbed or problematic.



Photo 1 Wetland data point wsua076s\_w facing east



Photo 2
Wetland data point wsua076s\_w facing west

Project/Site: Atlantic Coast Pipeline	City/County: City of	Suffolk	Sampling Date: 9/22/2015				
Applicant/Owner: Dominion	City/County: City of	State: VA	Sampling Point: wsua076_u				
Investigator(s): GB, SA Section, Township, Range: No PLSS in this area							
Landform (hillslope, terrace, etc.): flat Local relief (concave, convex, none): none Slope (%): 2							
Subregion (LRR or MLRA): T	Lat: 36.67018528	Long: -76.80291911	Datum: WGS 1984				
Soil Map Unit Name: Dragston fine sandy loam		NWI classifi					
Are climatic / hydrologic conditions on the site typical for							
Are Vegetation, Soil, or Hydrology							
Are Vegetation, Soil, or Hydrology SUMMARY OF FINDINGS - Attach site ma							
SOMMAN OF THE HOUSE ACCOUNTS THE THE		it locations, transects	s, important reatures, etc.				
	No Is the Samp	led Area					
Hydric Soil Present? Yes	No within a Wo		No				
Wetland Hydrology Present? Yes  Remarks:	No						
HYDROLOGY							
Wetland Hydrology Indicators:		Secondary Indic	ators (minimum of two required)				
Primary Indicators (minimum of one is required; check	all that apply)	Surface Soil	Surface Soil Cracks (B6)				
Surface Water (A1) Aqua	atic Fauna (B13)	Sparsely Ve	Sparsely Vegetated Concave Surface (B8)				
	Deposits (B15) (LRR U)		Drainage Patterns (B10)				
	rogen Sulfide Odor (C1)		Moss Trim Lines (B16)				
	ized Rhizospheres along Living Ro		Dry-Season Water Table (C2)				
	ence of Reduced Iron (C4)	· · · · · · · · · · · · · · · · · · ·	Crayfish Burrows (C8)				
	ent Iron Reduction in Tilled Soils (C		Saturation Visible on Aerial Imagery (C9)				
1 —	Muck Surface (C7) er (Explain in Remarks)	<pre> Geomorphic Position (D2) Shallow Aquitard (D3)</pre>					
Inundation Visible on Aerial Imagery (B7)	(Explain in Nemarks)	FAC-Neutra					
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)						
Field Observations:			,,,,,,				
Surface Water Present? Yes No	Depth (inches):						
	Depth (inches):						
	. ,	Wetland Hydrology Prese	Hydrology Present? Yes No				
(includes capillary fringe)		,					
Describe Recorded Data (stream gauge, monitoring w	ell, aeriai photos, previous inspecti	ons), if available:					
Remarks:							
no hydrology indicators present							
The riyardiogy maidatore present							

20	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:) 1		Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)
2				Total Number of Dominant
3				Species Across All Strata: 8 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 62.5 (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8	0	= Total Cov		OBL species0 x 1 =0
50% of total cover:0		total cover:	0	FACW species45
Sapling/Shrub Stratum (Plot size: 15 )	20 /6 01	total cover.	·	FAC species58
1 Clethra alnifolia	15	Yes	FACW	FACU species53 x 4 =212
2. Acer rubrum	10	Yes	FAC	UPL species x 5 =
3. Rhus copallinum	10	Yes	UPL	Column Totals:181 (A)601 (B)
4. Liquidambar styraciflua	5	No	FAC	Prevalence Index = $R/\Delta$ = 3.32
5. Aralia spinosa	5	No	FAC	T Tevalcinec index = B/A =
6. Pinus taeda	3	No	FAC	Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
7. Quercus alba	3	No	FACU	2 - Dominance Test is >50%
8.				3 - Prevalence Index is ≤3.0 <sup>1</sup>
	51	= Total Cov	er	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 25.5	20% of	total cover:	10.2	1 Toblematic Hydrophytic Vegetation (Explain)
Herb Stratum (Plot size: 5 )				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1. Arundinaria gigantea	20	Yes	FACW	be present, unless disturbed or problematic.
2. Eupatorium capillifolium	20	Yes	FACU	Definitions of Four Vegetation Strata:
3. Phytolacca americana	15	No	FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Sonchus arvensis	15	No	UPL	more in diameter at breast height (DBH), regardless of
5. Panicum dichotomiflorum	10	No	FACW	height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12				
40		= Total Cov	40	
50% of total cover:40	20% of	total cover:	16	
Woody Vine Stratum (Plot size: 30 )	00	V	E40	
1. Vitis rotundifolia	20	Yes Yes	FAC FAC	
2. Smilax rotundifolia	15			
3. Vitis aestivalis 4. Parthenocissus quinquefolia	<u>10</u> 5	Yes	FACU FACU	
4. Pannenocissus quinqueiolia		No	FACU	
5				Hydrophytic
50% of total cover: 25		= Total Cov	40	Vegetation Present?  Yes No
30 % Of total cover.		total cover:		
Remarks: (If observed, list morphological adaptations below	W).			

SOIL Sampling Point: wsua076\_u

Profile Desc	cription: (Describe t	to the depth	needed to docur	ment the	indicator	or confirm	the absence of in	dicators.)				
Depth Matrix				x Feature	-	1 2	T4	5 .	_			
(inches) 0-5	Color (moist) 10YR 2/2	100	Color (moist)	%	Type'	Loc <sup>2</sup>	Texture SL	Remark	<u>S</u>			
5-11	10YR 4/3	100					SL					
11-20	10YR 5/6	100					SL					
									_			
					·							
<sup>1</sup> Type: C=C	oncentration, D=Depl	etion, RM=R	educed Matrix, M	S=Masked	d Sand Gr	ains.	<sup>2</sup> Location: PL=I	Pore Lining, M=Ma	atrix.			
	Indicators: (Applica							roblematic Hydr				
Histosol			Polyvalue Be									
	pipedon (A2) istic (A3)		Thin Dark Su Loamy Muck				2 cm Muck (A10) (LRR S) Reduced Vertic (F18) (outside MLRA 150A,B)					
	en Sulfide (A4)		Loamy Gleye	-		. 0)	Reduced Vertic (F18) (outside MLRA 150A,B) Piedmont Floodplain Soils (F19) (LRR P, S, T)					
	d Layers (A5)		Depleted Ma		` ,		Anomalous Bright Loamy Soils (F20)					
_	Bodies (A6) (LRR P,		Redox Dark	•	,		(MLRA 153B)					
	ucky Mineral (A7) <b>(LR</b> esence (A8) <b>(LRR U</b> )		Depleted Da Redox Depre				Red Parent Material (TF2)					
	uck (A9) (LRR P, T)	,	Marl (F10) <b>(L</b>		0)		Very Shallow Dark Surface (TF12) Other (Explain in Remarks)					
	d Below Dark Surface	e (A11)	Depleted Oc		(MLRA 1	51)		,				
	ark Surface (A12)		Iron-Mangan					of hydrophytic ve	-			
	rairie Redox (A16) <b>(N</b> ⁄lucky Mineral (S1) <b>(L</b>		Umbric Surfa Delta Ochric			, U)	wetland hydrology must be present, unless disturbed or problematic.					
	Gleyed Matrix (S4)	.KK <b>U</b> , <b>3</b> )	Reduced Ve			0A, 150B)	uniess ui	sturbed or probler	nauc.			
	Redox (S5)		Piedmont Flo				9A)					
	l Matrix (S6)		Anomalous F	Bright Loa	my Soils (	F20) <b>(MLR</b>	A 149A, 153C, 153	D)				
	rface (S7) (LRR P, S Layer (if observed):	, T, U)					<u> </u>					
Type: no												
	ches):		_				Hydric Soil Pres	ent? Yes	No 🗸			
Remarks:			<u> </u>									
l												



Photo 1 Upland data point wsua076\_u facing northwest



Photo 2 Upland data point wsua076\_u facing southwest

Project/Site: Atlantic Coast Pipeline	City/County: City of Suffolk State: VA			Sampling Date: 9/19/2015			
Applicant/Owner: Dominion	;	State: VA	Sampling Point: wsua074e_w				
Investigator(s): GB, SA Section, Township, Range: No PLSS in this area							
Landform (hillslope, terrace, etc.): ditch							
Subregion (LRR or MLRA): T							
Soil Map Unit Name: Rains fine sandy loam			NWI classific				
Are climatic / hydrologic conditions on the site typical for							
Are Vegetation, Soil, or Hydrology		Are "Normal	Circumstances"	present? Yes No			
Are Vegetation, Soil, or Hydrology	naturally problematic?	(If needed, e	explain any answe	ers in Remarks.)			
SUMMARY OF FINDINGS - Attach site m	ap showing sampling p	ooint locatio	ons, transects	s, important features, etc.			
Hydrophytic Vegetation Present? Yes	_ No Is the S						
	No.	Sampled Area	V V	No			
Wetland Hydrology Present? Yes <u>✓</u>	_ No	a Wetland?	res				
Remarks: Wetland data point for a seasonally-flooded PEM wetla							
HYDROLOGY							
Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of one is required; check			Surface Soil Cracks (B6)				
	uatic Fauna (B13)		Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16)				
_	rl Deposits (B15) (LRR U)						
	drogen Sulfide Odor (C1)	D ( (00)					
	dized Rhizospheres along Livir	ng Roots (C3)					
	sence of Reduced Iron (C4) cent Iron Reduction in Tilled So	sile (C6)	Crayfish Burrows (C8)				
	n Muck Surface (C7)	ilis (CO)	(C6) Saturation Visible on Aerial Imagery (C9)  ✓ Geomorphic Position (D2)				
	ner (Explain in Remarks)		Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7)	or (Explain in Romano)	FAC-Neutral Test (D5)					
Water-Stained Leaves (B9)			· <del></del>	moss (D8) <b>(LRR T, U)</b>			
Field Observations:				. , , ,			
Surface Water Present? Yes No	Depth (inches):						
Water Table Present? Yes No	Depth (inches): 5						
Saturation Present? Yes _ V No	Depth (inches): 2	Wetland H	Hydrology Present? Yes <u>✓</u> No				
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring w	vell aerial photos previous ins	nections) if ava	ilahle:				
Describe Necorded Data (Stream gauge, monitoring v	reii, aeriai priotos, previous iris	pections), ii ava	liable.				
Remarks:							
remarks.							

20	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
1				That Are OBE, I AGW, OF I AG. (A)
3				Total Number of Dominant Species Across All Strata:  2 (B)
4				Barrent of Barrin and On a inc
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8				OBL species x 1 = 40
		= Total Cov		10 00
50% of total cover:0	20% of	total cover:	0	FACW species
Sapling/Shrub Stratum (Plot size:)				FAC species x 3 = 0
1				FACU species x 4 =
2				UPL species x 5 =
3				Column Totals: (A) (B)
4				Prevalence Index = B/A =2.18
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				✓ 2 - Dominance Test is >50%
8.				✓ 3 - Prevalence Index is ≤3.0 <sup>1</sup>
	0	= Total Cov	er	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover:0	20% of	total cover:	0	Problematic Hydrophytic vegetation (Explain)
Herb Stratum (Plot size: 5 )				1
1. Murdannia spirata	60	Yes	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Leersia oryzoides	35	Yes	OBL	Definitions of Four Vegetation Strata:
3. Setaria magna	5	No	FACW	Tree Meady plants avaluding vines 2 in (7.6 cm) or
4. Eupatorium perfoliatum	5	No	FACW	<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5. Ludwigia alternifolia	5	No	OBL	height.
6.				Sapling/Shrub – Woody plants, excluding vines, less
7.				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8.				Hart. All back account (a constant of a least a constant of
9.				<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10.				
11.				<b>Woody vine</b> – All woody vines greater than 3.28 ft in
12.				height.
12.	110	= Total Cov		
50% of total cover: 55		total cover:		
30 % of total cover.	20% 01	total cover.	-	
/ lot old of				
1				
2				
3				
4				
5				Hydrophytic
0		= Total Cov		Vegetation Present? Yes No
50% of total cover:0	20% of	total cover:		· · · · · · · · · · · · · · · · · · ·
Remarks: (If observed, list morphological adaptations below	w).			

SOIL Sampling Point: wsua074e\_w

Depth	cription: (Describe t Matrix			x Feature				,
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-5	10YR 3/2	100					SL	
5-18	10YR 6/1	75	7.5YR 4/6	25	С	M	SC	
					·			
<sup>1</sup> Type: C=C	oncentration, D=Depl	etion, RM=	Reduced Matrix, MS	S=Masked	d Sand Gr	ains.	<sup>2</sup> Location: PL	=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applica	able to all l	RRs, unless other	wise not	ed.)		Indicators for	Problematic Hydric Soils <sup>3</sup> :
Histoso	I (A1)		Polyvalue Be	low Surfa	ice (S8) <b>(L</b>	.RR S, T, U	) 1 cm Muc	k (A9) <b>(LRR O)</b>
	pipedon (A2)		Thin Dark Su					k (A10) <b>(LRR S)</b>
	istic (A3)		Loamy Muck			R O)		Vertic (F18) (outside MLRA 150A,B
	en Sulfide (A4) d Layers (A5)		Loamy Gleye ✓ Depleted Ma		(F2)			Floodplain Soils (F19) <b>(LRR P, S, T)</b> is Bright Loamy Soils (F20)
	Bodies (A6) <b>(LRR P</b> ,	T. U)	Redox Dark	` '	<del>-</del> 6)		(MLRA	
-	ucky Mineral (A7) <b>(LR</b>		Depleted Dar	•	,		•	nt Material (TF2)
	resence (A8) (LRR U)		Redox Depre					low Dark Surface (TF12)
	uck (A9) <b>(LRR P, T)</b>		Marl (F10) <b>(L</b>	RR U)				plain in Remarks)
	d Below Dark Surface	(A11)	Depleted Oct				•	
	ark Surface (A12)		Iron-Mangan					rs of hydrophytic vegetation and
	Prairie Redox (A16) (N					', U)		d hydrology must be present,
	Mucky Mineral (S1) <b>(L</b> Gleyed Matrix (S4)	KK 0, 5)	Delta Ochric Reduced Ver			OA 150B)	uniess	disturbed or problematic.
-	Redox (S5)		Piedmont Flo				9Δ)	
-	d Matrix (S6)						A 149A, 153C, 15	i3D)
	urface (S7) (LRR P, S	, T, U)	_	<b>J</b>	, (	- / (	,,	•
Restrictive	Layer (if observed):							
Type: sa								
Depth (ir	iches): <sup>6</sup>						Hydric Soil Pre	esent? Yes No
Remarks:							1	



Photo 1
Wetland data point wsua074e\_w facing northeast



**Photo 2**Wetland data point wsua074e\_w facing southwest

Project/Site: Atlantic Coast Pipeline	City/Co	ounty: City of Suffolk		Sampling Date: 9/19/2015		
Applicant/Owner: Dominion	City/Co		State: VA	Sampling Point: wsua074_u		
	Sectio					
	Local ı					
Subregion (LRR or MLRA): T	Lat: 36.66808211	Long:	76.79307746	Datum: WGS 1984		
Soil Map Unit Name: Rains fine sandy loam						
Are climatic / hydrologic conditions on the site						
Are Vegetation, Soil, or Hydrok						
Are Vegetation, Soil, or Hydrok						
SUMMARY OF FINDINGS – Attach						
		pinig point location	, iranscots,	important reatures, etc.		
	No	Is the Sampled Area				
	No <u>/</u>	within a Wetland?	Yes	No		
Wetland Hydrology Present? Yes Remarks:	No <u>/</u>					
HYDROLOGY						
Wetland Hydrology Indicators:				tors (minimum of two required)		
Primary Indicators (minimum of one is require			Surface Soil (			
Surface Water (A1)	<ul><li>Aquatic Fauna (B13)</li><li>Marl Deposits (B15) (LRR</li></ul>		<ul><li>Sparsely Vegetated Concave Surface (B8)</li><li>Drainage Patterns (B10)</li></ul>			
High Water Table (A2)		Moss Trim Lines (B16)				
Saturation (A3) Water Marks (B1)	<ul><li>Hydrogen Sulfide Odor (C</li><li>Oxidized Rhizospheres al</li></ul>					
Sediment Deposits (B2)	Presence of Reduced Iror		Dry-Season Water Table (C2) Crayfish Burrows (C8)			
Drift Deposits (B3)	Recent Iron Reduction in			sible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	Thin Muck Surface (C7)		Geomorphic I	Position (D2)		
Iron Deposits (B5)	Other (Explain in Remarks	3)	Shallow Aquitard (D3)			
Inundation Visible on Aerial Imagery (B7)			FAC-Neutral Test (D5)			
Water-Stained Leaves (B9)			Sphagnum m	oss (D8) <b>(LRR T, U)</b>		
Field Observations:	• • • • • • • • • • • • • • • • • • • •					
	o Depth (inches):					
· · · · · · · · · · · · · · · · · · ·	o Depth (inches):	<u>.</u>	h. d. d	10 Y N- V		
Saturation Present? Yes N (includes capillary fringe)	o V Depth (inches):	wetland F	lydrology Present	t? Yes No		
Describe Recorded Data (stream gauge, mor	itoring well, aerial photos, prev	vious inspections), if ava	ilable:			
Remarks:						
no hydrology indicators present						

20	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 2 (A)
2				Total Number of Dominant
3				Species Across All Strata: 6 (B)
4				
5.				Percent of Dominant Species That Are OBL FACW or FAC: 33.33333333 (A/B)
				That Are OBL, FACW, or FAC: 33.33333333 (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8				OBL species0 x 1 =0
0		= Total Co		FACW species35
50% of total cover:0	20% of	total cover	.:0	10 20
Sapling/Shrub Stratum (Plot size: 15 )				FAC species $\frac{10}{75}$ $\times 3 = \frac{30}{300}$
1				FACU species x 4 =
2.				UPL species x 5 =
3.				Column Totals:(A)(B)
				2.22
4				Prevalence Index = B/A =3.33
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 <sup>1</sup>
	0	= Total Co	ver	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
50% of total cover:	20% of	total cover	0	1 Toblematic Hydrophytic Vegetation (Explain)
Herb Stratum (Plot size:5)	_			1
1 Ambrosia artemisiifolia	30	Yes	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Setaria magna	25	Yes	FACW	
				Definitions of Four Vegetation Strata:
3. Sporobolus indicus	20	Yes	FACU	<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Echinochloa crus-galli	10	No	FACW	more in diameter at breast height (DBH), regardless of
5. Erigeron canadensis	10	No	FACU	height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7.				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8.				
				<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
9				or olzo, and woody plante look than olzo it tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12				
		= Total Co		
50% of total cover: 47.5	20% of	total cover	.:19	
Woody Vine Stratum (Plot size:)				
1. Vitis aestivalis	10	Yes	FACU	
2. Toxicodendron radicans	10	Yes	FAC	
3. Parthenocissus quinquefolia	5	Yes	FACU	
4				
5				Hydrophytic
40.5		= Total Co	_	Vegetation Present?  Yes No
50% of total cover: 12.5	20% of	total cover	5	rieseitt: iesNo
Remarks: (If observed, list morphological adaptations below	v).			

SOIL Sampling Point: wsua074\_u

Depth	cription: (Describe to Matrix			x Feature					
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remark	(S
0-5	10YR 3/2	100					SL		
5-18	10YR 4/3	100					SL		
					-				
				<del>-</del>	·				
1- 0.0							2, ,,		
	concentration, D=Depl Indicators: (Application)					ains.		Pore Lining, M=M Problematic Hydi	
-		able to all L				DD 0 T 11		-	ic soils .
Histoso			Polyvalue Be Thin Dark Su						
	pipedon (A2) listic (A3)		Loamy Muck					(A10) <b>(LRR S)</b> artic (E18) <b>(outsic</b>	le MLRA 150A,B)
	en Sulfide (A4)		Loamy Gleye	-		. 0,		. , .	19) (LRR P, S, T)
	d Layers (A5)		Depleted Ma		(- –)			Bright Loamy Soi	
	Bodies (A6) (LRR P,	T, U)	Redox Dark		<del>-</del> 6)		(MLRA 15		,
-	ucky Mineral (A7) <b>(LR</b>		Depleted Da	•	,			Material (TF2)	
Muck P	resence (A8) (LRR U	)	Redox Depre		(8)			w Dark Surface (	ΓF12)
	uck (A9) (LRR P, T)		Marl (F10) <b>(L</b>				Other (Expla	ain in Remarks)	
	d Below Dark Surface	e (A11)	Depleted Oc	, ,	-	•	3		
	ark Surface (A12)	U DA 450A\	Iron-Mangan					of hydrophytic ve	-
	Prairie Redox (A16) <b>(N</b> Mucky Mineral (S1) <b>(L</b>					, U)		hydrology must be isturbed or proble	
	Gleyed Matrix (S4)	.KK (), (3)	Delta Ochric Reduced Ve			ΩΔ 150R)	unless u	isturbed or proble	mauc.
	Redox (S5)		Piedmont Flo				9Δ)		
-	d Matrix (S6)						A 149A, 153C, 153	D)	
	urface (S7) (LRR P, S	, T, U)	_	<b>J</b>	, (	- / (	,,	,	
Restrictive	Layer (if observed):								
Type: no	ne		<u></u>						
	iches):						Hydric Soil Pres	ent? Yes	No
Remarks:	,								



Photo 1 Upland data point wsua074\_u facing southwest



Photo 2
Upland data point wsua074\_u facing northeast

Project/Site: Atlantic Coast Pipeline		City/C	County: City of S	Suffolk		_ Sampling Dat	te: 9/19/2015		
Applicant/Owner: Dominion	s	tate: VA	Sampling Poi	nt: wsua073f_w					
Investigator(s): GB, SA Section, Township, Range: No PLSS in this area							<del></del>		
Landform (hillslope terrace etc.): flat		Local	relief (concave	convex n	one) microtopo	ography s	Slone (%): 1		
Subregion (LRR or MLRA): T	Long76	6.78578656	_ <del>-</del>	Datum: WGS 1984					
Soil Map Unit Name: Rains fine sandy loam	Long.	NIMI classifi	ication: PFO4A	Datum.					
Are climatic / hydrologic conditions on the site	t migal for	- this time of year? V	_						
							✓ Na		
Are Vegetation, Soil, or Hydro									
Are Vegetation, Soil, or Hydro						ers in Remarks.			
SUMMARY OF FINDINGS – Attac	ı site ma	ap showing sam	npling point	location	ns, transect	s, important	t features, etc.		
Hydrophytic Vegetation Present? Y	es <u>/</u>		Is the Sample	od ∆rea					
			within a Wetla		Yes •	/ No			
Wetland Hydrology Present? Y Remarks:	es <u>/</u>	No	W.W.III & 1.4	ui.u.					
HYDROLOGY									
Wetland Hydrology Indicators:	l -baak	9.0 (		-	Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of one is requ					Surface Soi	, ,	O ( (DO)		
Surface Water (A1)		atic Fauna (B13)	חות	-			ve Surface (B8)		
High Water Table (A2) Saturation (A3)		I Deposits (B15) (LRF rogen Sulfide Odor (C		-	Drainage Pa Moss Trim I	atterns (B10) Lines (B16)			
Water Marks (B1)	-	dized Rhizospheres a		ots (C3)		n Water Table (0	C2)		
Sediment Deposits (B2)		sence of Reduced Iron			Crayfish Burrows (C8)				
Drift Deposits (B3)		ent Iron Reduction in							
Algal Mat or Crust (B4)	Thin	Muck Surface (C7)		Geomorphic Position (D2)					
Iron Deposits (B5)		er (Explain in Remark	(s)	Shallow Aquitard (D3)					
Inundation Visible on Aerial Imagery (B	7)			FAC-Neutral Test (D5)					
Water-Stained Leaves (B9)				-	Sphagnum	moss (D8) (LRF	R T, U)		
Field Observations: Surface Water Present? Yes	NIO V	Depth (inches):							
		Depth (inches):							
		Depth (inches):		Vetland Hy	drology Prese	ent? Yes	No		
(includes capillary fringe)				•		:III: 165			
Describe Recorded Data (stream gauge, m	nitoring w	ell, aerial photos, pre	vious inspection	ns), if avail	able:				
Remarks:									

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?	Status	Number of Dominant Species
1 Pinus taeda	60	Yes	FAC	That Are OBL, FACW, or FAC: 7 (A)
2. Liquidambar styraciflua	5	No	FAC	matric obe, thow, of the
3. Quercus nigra	3	No		Total Number of Dominant
3. Quercus riigia			FAC	Species Across All Strata: 7 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100 (A/B)
6				(*=/
7				Prevalence Index worksheet:
				Total % Cover of: Multiply by:
8	68			OBL species0 x 1 =0
24		= Total Cov		FACW species 33 x 2 = 66
50% of total cover:34	20% of	total cover:	13.6	404 400
Sapling/Shrub Stratum (Plot size: 15 )				FAC species $\frac{161}{0}$ x 3 = $\frac{483}{0}$
1. Clethra alnifolia	25	Yes	FACW	FACU species X 4 =
2. Ilex opaca	10	Yes	FAC	UPL species0 x 5 =0
3. Symplocos tinctoria	10	Yes	FAC	Column Totals:(A)(B)
	10	Yes	FAC	
4. Liquidambar styraciflua				Prevalence Index = B/A =
5. Vaccinium corymbosum	5	No	FACW	Hydrophytic Vegetation Indicators:
6. Acer rubrum	5	No	FAC	1 - Rapid Test for Hydrophytic Vegetation
7 Quercus nigra	5	No	FAC	
8. Pinus taeda		No	FAC	2 - Dominance Test is >50%
8	78			3 - Prevalence Index is ≤3.0 <sup>1</sup>
20		= Total Cov	450	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
50% of total cover: 39	20% of	total cover:	15.6	
Herb Stratum (Plot size:)				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1				be present, unless disturbed or problematic.
				Definitions of Four Vegetation Strata:
				Definitions of Four Vegetation Strata.
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub – Woody plants, excluding vines, less
				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7				and one born and ground and one in (1 m) tame
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11.				height.
12.				
12.	0			
0		= Total Cov	•	
50% of total cover:0	20% of	total cover:		
Woody Vine Stratum (Plot size:)				
1. Smilax rotundifolia	30	Yes	FAC	
2 Vitis rotundifolia	10	Yes	FAC	
	8	No	FAC	
3. Geisemium sempervirens				
4				
5				Hydrophytic
	48	= Total Cov	er	Vegetation
50% of total cover: 24		total cover:	~ ~	Present? Yes No
·		total cover.		
Remarks: (If observed, list morphological adaptations below	v).			

SOIL Sampling Point: wsua073f\_w

Profile Desc	cription: (Describe t	o the depth	n needed to docum	nent the i	indicator	or confirm	the absence of in	dicators.)
Depth	1 3							Domarka
(inches) 0-5	10YR 3/2	100	Color (moist)	%	<u>rype</u>	LOC	SL	Remarks
5-10	10YR 4/2	100					SCL	
10-20	10YR 5/2	95	10YR 5/6	5	C	PL/M	SCL	
Type: C=C  Hydric Soil  Histosol  Histic E  Black H  Hydroge  Stratifier  Organic  5 cm Mu  Muck Pi  1 cm Mu  Deplete  Thick Di  Coast P  Sandy N  Sandy N  Sandy F  Stripped  Dark Su  Restrictive	oncentration, D=Depl Indicators: (Application) (A1) Dipedon (A2) Sistic (A3) En Sulfide (A4) Cd Layers (A5) Bodies (A6) (LRR P, Jucky Mineral (A7) (LR Pesence (A8) (LRR P, T) Cd Below Dark Surface Surface (A12) Trairie Redox (A16) (No Mucky Mineral (S1) (LC Gleyed Matrix (S4) Redox (S5) I Matrix (S6) I Matrix (S6) I fface (S7) (LRR P, S Layer (if observed):	T, U) R P, T, U)  (A11)  (ILRA 150A) RR O, S)	Reduced Matrix, MS RRs, unless other Polyvalue Be Thin Dark Su Loamy Mucky Loamy Gleye Depleted Mat Redox Dark S Depleted Dar Redox Depre Marl (F10) (L Depleted Och Iron-Mangane Umbric Surfa Delta Ochric Reduced Ver Piedmont Flo	S=Masked rwise not low Surfa rface (S9 y Mineral ed Matrix ( trix (F3) Surface (F ek Surface essions (F RR U) nric (F11) ese Mass ce (F13) ( (F17) (ML tic (F18) (	d Sand Graed.) (ce (S8) (L) (LRR S, (F1) (LRR (F2) (MLRA 15) (LRR P, T LRA 151) (MLRA 15) (MLRA 15) (MLRA 15) (MLRA 15) (MLRA 15)	ains.  RR S, T, U T, U) O)  OA, 150B) (MLRA 145	<sup>2</sup> Location: PL=  Indicators for F  ) 1 cm Muck 2 cm Muck Reduced Ve Piedmont F Anomalous (MLRA 15 Red Parent Very Shallo Other (Explications) Wetland unless d	(A10) (LRR S) ertic (F18) (outside MLRA 150A,B) loodplain Soils (F19) (LRR P, S, T) Bright Loamy Soils (F20) 53B) Material (TF2) w Dark Surface (TF12) ain in Remarks) s of hydrophytic vegetation and hydrology must be present, isturbed or problematic.  D)



Photo 1 Wetland data point wsua073f\_w facing norhtwest



Photo 2
Wetland data point wsua073f\_w facing southwest

Project/Site: Atlantic Coast Pipeline	City/County: City c	of Suffolk	_ Sampling Date: 9/19/2015			
Applicant/Owner: Dominion	City/County: City c	State: VA	Sampling Point: wsua073_u			
Investigator(s): GB, SA Section, Township, Range: No PLSS in this area						
Landform (hillslope, terrace, etc.): flat						
Subregion (LRR or MLRA): T						
Soil Map Unit Name: Rains fine sandy loam		NWI classif				
Are climatic / hydrologic conditions on the site typic						
Are Vegetation, Soil, or Hydrology						
Are Vegetation, Soil, or Hydrology		(If needed, explain any answ	•			
SUMMARY OF FINDINGS – Attach sit	e map snowing sampling pol	nt locations, transect	s, important features, etc.			
	No Is the Sam	pled Area				
	No V within a W	•	No 🗸			
Wetland Hydrology Present? Yes Remarks:	No					
Upland data point for a seasonally-saturated PFO						
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Indic	cators (minimum of two required)			
Primary Indicators (minimum of one is required; of	heck all that apply)	Surface Soi				
	Aquatic Fauna (B13)		<ul><li>Sparsely Vegetated Concave Surface (B8)</li><li>Drainage Patterns (B10)</li></ul>			
	Marl Deposits (B15) (LRR U)					
	Hydrogen Sulfide Odor (C1)	Moss Trim				
· · ·	Oxidized Rhizospheres along Living R Presence of Reduced Iron (C4)					
	Recent Iron Reduction in Tilled Soils (		Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)			
	Thin Muck Surface (C7)		c Position (D2)			
	Other (Explain in Remarks)	Shallow Aq	, ,			
Inundation Visible on Aerial Imagery (B7)	,	FAC-Neutra				
Water-Stained Leaves (B9)			moss (D8) (LRR T, U)			
Field Observations:						
Surface Water Present? Yes No	Depth (inches):					
Water Table Present? Yes No	Depth (inches):					
	Depth (inches):	Wetland Hydrology Prese	ent? Yes No			
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitori	ng well, aerial photos, previous inspec	tions), if available:				
Remarks:						
no hydrology indicators present						

00	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:)  1	% Cover 40	Species?		Number of Dominant Species
Ouereus nieve	5	Yes No	FAC FAC	That Are OBL, FACW, or FAC:4 (A)
2. Quercus nigra 3 Liquidambar styraciflua		No	FAC	Total Number of Dominant
4. Quercus alba		No	FACU	Species Across All Strata: 6 (B)
5. Acer rubrum		No	FAC	Percent of Dominant Species
•			170	That Are OBL, FACW, or FAC: 66.6666666 (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8	60			OBL species 0 x 1 = 0
EON/ of total covers 30	<del></del>	= Total Cov	12	FACW species9 x 2 =18
50% of total cover: 50% of	20% 01	total cover:		FAC species132 x 3 =396
Sapling/Shrub Stratum (Plot size: 15 )  1 Liquidambar styraciflua	10	Yes	FAC	FACU species40
2. Quercus alba	10	Yes	FACU	UPL species0 x 5 =0
3. Quercus nigra	8	Yes	FAC	Column Totals:181
4. Oxydendrum arboreum	6	No	FACU	2.47
5. Symplocos tinctoria	5	No	FAC	Prevalence Index = B/A =3.17
6. Clethra alnifolia	5	No	FACW	Hydrophytic Vegetation Indicators:
7 Vaccinium corymbosum	4	No	FACW	1 - Rapid Test for Hydrophytic Vegetation
8. Prunus serotina	4	No	FACU	2 - Dominance Test is >50%
0	56	= Total Cov		3 - Prevalence Index is ≤3.0¹
50% of total cover: 28		total cover:	44.0	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
50 % of total cover	20 /0 01	total cover.	·	
				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1				Definitions of Four Vegetation Strata:
2				Definitions of Four Vegetation Strata.
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of height.
5				
6				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7				
8				<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
v				of size, and woody plants less than size it tall.
10				Woody vine – All woody vines greater than 3.28 ft in
12.				height.
12.	0	= Total Cov		
50% of total cover:		total cover:	^	
Woody Vine Stratum (Plot size: 30 )	20 /0 01	total cover.	·	
1. Smilax rotundifolia	40	Yes	FAC	
2 Vitis aestivalis	15	Yes	FACU	
3. Vitis rotundifolia	10	No	FAC	
5	65	= Total Cov		Hydrophytic Vegetation
50% of total cover:32.5		total cover:	40	Present? Yes No
		total cover.		
Remarks: (If observed, list morphological adaptations below	W).			

SOIL Sampling Point: wsua073\_u

Profile Desc	cription: (Describe t	o the depth	needed to docui	ment the	indicator	or confirm	the absence of in-	dicators.)	
Depth Matrix Redox Features  (inches) Color (moist) 9/ Color (moist) 9/ Type 1 Log2 Touture								5 .	_
(inches) 0-5	Color (moist) 10YR 3/2	100	Color (moist)	%	Type'	Loc <sup>2</sup>	Texture SL	Remarks	<u>S</u>
5-11	10YR 4/2	100					SL		
11-20	10YR 5/3	100		_			SCL		
									_
									_
<sup>1</sup> Type: C=C	oncentration, D=Depl	etion, RM=Re	educed Matrix, M	S=Masked	d Sand Gr	ains.	<sup>2</sup> Location: PL=F	Pore Lining, M=Ma	atrix.
	Indicators: (Applica							roblematic Hydri	
Histosol			Polyvalue Be						
	pipedon (A2) istic (A3)		Thin Dark Sι Loamy Muck					(A10) <b>(LRR S)</b> ertic (F18) <b>(outsid</b> e	o MI DA 150A B)
	en Sulfide (A4)		Loamy Gleye	-		. 0)		oodplain Soils (F1	
	d Layers (A5)		Depleted Ma		,			Bright Loamy Soil	
_	Bodies (A6) (LRR P,		Redox Dark	•	,		(MLRA 15		
	ucky Mineral (A7) <b>(LR</b> esence (A8) <b>(LRR U</b> )		Depleted Da Redox Depre		, ,			Material (TF2) w Dark Surface (T	E12\
	uck (A9) (LRR P, T)	1	Nedox Depre Marl (F10) <b>(L</b>		0)			ain in Remarks)	112)
	d Below Dark Surface	e (A11)	Depleted Oc		(MLRA 1	51)	<u> </u>	,	
	ark Surface (A12)		Iron-Mangan					of hydrophytic ve	
	rairie Redox (A16) <b>(N</b> ⁄lucky Mineral (S1) <b>(L</b>		Umbric Surfa Delta Ochric			, U)		nydrology must be sturbed or probler	
	Gleyed Matrix (S4)	KK 0, 3)	Reduced Ve			0A, 150B)	uniess ui	sturbed or probler	nauc.
	Redox (S5)		Piedmont Flo				9A)		
	l Matrix (S6)		Anomalous E	Bright Loa	my Soils (	F20) <b>(MLR</b>	A 149A, 153C, 153I	D)	
	rface (S7) (LRR P, S Layer (if observed):	, T, U)					<u> </u>		
Type: no									
	ches):						Hydric Soil Pres	ent? Yes	No 🗸
Remarks:			<del>_</del>						
l									



Photo 1 Upland data point wsua073\_u facing south



Photo 2 Upland data point wsua073\_u facing north

Project/Site: Atlantic Coast Pipeline		City/C	ounty: City of Suffolk	(	Sampling Date: 9/18/2015		
Applicant/Owner: DOMINION			State: VA	Sampling Date: 9/18/2015 Sampling Point: wsuc101f_w1			
Investigator(s): Team C Section, Township, Range: No PLSS in this area							
Landform (hillslope, terrace, etc.): Basin Local relief (concave, convex, none): none Slope (%):							
					Datum: WGS 1984		
Soil Map Unit Name: Rains fine sandy loa				NWI cla	ssification: PEM1E, PSS1/FO1C,		
Are climatic / hydrologic conditions on the		this time of year? V					
Are Vegetation, Soil, or H							
Are Vegetation, Soil, or H	ydrology	_ naturally problema	itic? (If neede	d, explain any a	nswers in Remarks.)		
SUMMARY OF FINDINGS – Att	ach site ma	p showing sam	pling point loca	tions, transe	ects, important features, etc.		
Hydrophytic Vegetation Present?	Yes 🔽	No	In the Committed Am	_			
Hydric Soil Present?	Yes 🗸		Is the Sampled Are		V 11-		
Wetland Hydrology Present?	Yes 🗸		within a Wetland?	res .	No		
Remarks:							
Large basin wetland which is a mosaic w	ith some uplan	d sections scattered	throughout.				
HYDROLOGY							
Wetland Hydrology Indicators:				Secondary I	ndicators (minimum of two required)		
Primary Indicators (minimum of one is re	equired; check	all that apply)			Soil Cracks (B6)		
Surface Water (A1)		itic Fauna (B13)			y Vegetated Concave Surface (B8)		
High Water Table (A2)		Deposits (B15) (LRF	R U)		e Patterns (B10)		
Saturation (A3)		ogen Sulfide Odor (C			rim Lines (B16)		
Water Marks (B1)	-	-	long Living Roots (C3		ason Water Table (C2)		
Sediment Deposits (B2)		ence of Reduced Iron		Crayfish Burrows (C8)			
Drift Deposits (B3)		ent Iron Reduction in		Saturation Visible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)		Muck Surface (C7)	` .	Geomorphic Position (D2)			
Iron Deposits (B5)		r (Explain in Remark	s)	Shallow Aquitard (D3)			
Inundation Visible on Aerial Imager			-,	FAC-Neutral Test (D5)			
Water-Stained Leaves (B9)	, ,				um moss (D8) (LRR T, U)		
Field Observations:							
Surface Water Present? Yes	No	Depth (inches):					
		Depth (inches):					
		Depth (inches): 10	Wetlan	nd Hvdrology Pr	resent? Yes V No No		
(includes capillary fringe)							
Describe Recorded Data (stream gauge	e, monitoring we	ell, aerial photos, pre	vious inspections), if	available:			
Remarks:							
Wetland hydrology present							

00	Absolute	Dominant	Indicator	Dominance Test worksheet:	
<u>Tree Stratum</u> (Plot size:)		Species?	Status	Number of Dominant Species	
1. Acer rubrum	35	Yes	FAC	That Are OBL, FACW, or FAC:5 (A)	(،
2. Quercus nigra	30	Yes	FAC	Total Number of Dominant	
3. Ilex opaca	10	No	FAC	Species Across All Strata: 5 (B)	3)
4.					,
5.				Percent of Dominant Species That Are OBL FACW or FAC: 100	(D)
				That Are OBL, FACW, or FAC: 100 (A)	/B)
6				Prevalence Index worksheet:	
7				Total % Cover of: Multiply by:	
8	75		-	OBL species3 x 1 =3	
27.5		= Total Cove		FACW species75	
50% of total cover: 37.5	20% of	total cover:	15	00 240	
Sapling/Shrub Stratum (Plot size: 15 )				FAC species $x 3 = 240$	
1. Gordonia lasianthus	5	Yes	FACW	FACU species x 4 =	
2. Ilex opaca	5	Yes	FAC	UPL species $\frac{0}{158}$ $x = \frac{0}{393}$	
3.				Column Totals:(A)(B	(B)
4.				Prevalence Index = $R/A$ = 2.48	
				Trevalence mack Birt	
5				Hydrophytic Vegetation Indicators:	
6			-	1 - Rapid Test for Hydrophytic Vegetation	
7				2 - Dominance Test is >50%	
8				3 - Prevalence Index is ≤3.0 <sup>1</sup>	
	10	= Total Cove	er	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
50% of total cover:5	20% of	total cover:	2		
Herb Stratum (Plot size:5				<sup>1</sup> Indicators of hydric soil and wetland hydrology must	+
1 Arundinaria gigantea	70	Yes	FACW	be present, unless disturbed or problematic.	
2. Eleocharis obtusa	3	No	OBL	Definitions of Four Vegetation Strata:	
				Definitions of Four Pogetation Grada.	
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cm)	
4				more in diameter at breast height (DBH), regardless	of
5				height.	
6				Sapling/Shrub – Woody plants, excluding vines, les	3S
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.	
8				Herb – All herbaceous (non-woody) plants, regardles	
9				of size, and woody plants less than 3.28 ft tall.	55
10					
				<b>Woody vine</b> – All woody vines greater than 3.28 ft in	n
				height.	
12	73				
36.5		= Total Cove			
50% of total cover: 36.5	20% of	total cover:	14.0		
Woody Vine Stratum (Plot size:)					
1					
2					
3					
4.					
5					
J		= Total Cove		Hydrophytic Vegetation	
500/ (1.1.)				Present? Yes No	
50% of total cover: 0		total cover:			
Remarks: (If observed, list morphological adaptations below	w).				

SOIL Sampling Point: wsuc101f\_w1

Depth (inches)						01 0011111111	the absence of	indicators.)
	Matrix Color (moist)	%	Color (moist)	x Feature %	s Type <sup>1</sup>	Loc²	Texture	Remarks
0-11	10 YR 2/2	100					SL	
11-18	10 YR 5/1	98	10 YR 6/6	2	С	PL		
				-				
				-				
				-				
1							2	
	oncentration, D=Deple Indicators: (Applica					ains.		L=Pore Lining, M=Matrix.  or Problematic Hydric Soils <sup>3</sup> :
Histosol		bic to an	Polyvalue Be			RRSTU		ck (A9) (LRR O)
	pipedon (A2)		Thin Dark Su					ck (A10) <b>(LRR S)</b>
· ·	istic (A3)		Loamy Muck					Vertic (F18) (outside MLRA 150A
	en Sulfide (A4)		Loamy Gleye		(F2)		Piedmon	t Floodplain Soils (F19) <b>(LRR P, S</b> ,
	d Layers (A5)		Depleted Ma	. ,				ous Bright Loamy Soils (F20)
_	Bodies (A6) (LRR P,		Redox Dark	•	,			A 153B)
	ucky Mineral (A7) <b>(LR</b> l resence (A8) <b>(LRR U)</b>		Depleted Dai Redox Depre					ent Material (TF2) allow Dark Surface (TF12)
	uck (A9) (LRR P, T)		Redox Depre		0)			xplain in Remarks)
· ——	d Below Dark Surface	(A11)	Depleted Ocl		(MLRA 1	51)	outer (E	xpiair ir remarks)
	ark Surface (A12)	(	Iron-Mangan				T) <sup>3</sup> Indicat	ors of hydrophytic vegetation and
Coast P	rairie Redox (A16) (M	LRA 150 <i>A</i>	A) Umbric Surfa	ce (F13)	(LRR P, T	, <b>U)</b>	wetla	nd hydrology must be present,
-	/lucky Mineral (S1) <b>(Ll</b>	RR O, S)	Delta Ochric				unles	s disturbed or problematic.
-	Gleyed Matrix (S4)		Reduced Ver					
-	Redox (S5)		Piedmont Flo					(535)
	l Matrix (S6) rface (S7) (LRR P, S,	T 11\	Anomalous E	sright Loa	my Solis (	-20) <b>(NILR</b>	A 149A, 153C, 1	153D)
	Layer (if observed):	1, 0)					I	
Type:	_ayo: ( oboo: roa):							
• • •	ches):						Hydric Soil P	resent? Yes No
Remarks:							1.7	
Hydric soil pr	esent							
riyano con pr	ocom							



Photo 1
Wetland data point wsuc101f\_w1 facing north



Photo 2
Wetland data point wsuc101f\_w1 facing east

Project/Site: Atlantic Coast Pipeline		City/C	county: City of Suffolk		_ Sampling Date: <u>9/19/2015</u>
Applicant/Owner: DOMINION			Sampling Point: wsuc101f_w2		
••		Section	on, Township, Range:		
Landform (hillslope, terrace, etc.): Basin					
Subregion (LRR or MLRA): T					
Soil Map Unit Name: Rains fine sandy loar		Lai			cation: PEM1E, PSS1/FO1C,
		- 41-1- 41			
Are climatic / hydrologic conditions on the s					
Are Vegetation, Soil, or Hyd					
Are Vegetation, Soil, or Hyd	drology	naturally problema	atic? (If needed	, explain any answ	ers in Remarks.)
SUMMARY OF FINDINGS – Atta	ch site m	ap showing sam	pling point locat	ions, transect	s, important features, etc.
Hydrophytic Vegetation Present?	Yes 🗸	No	la tha Oammia d Ama		
		No	Is the Sampled Area within a Wetland?		No
Wetland Hydrology Present?	Yes 🔽	No	within a wetland?	res	NO
Remarks:					
Wetland within a large basin system					
HYDROLOGY					
Wetland Hydrology Indicators:				<u> </u>	cators (minimum of two required)
Primary Indicators (minimum of one is rec				Surface Soi	, ,
Surface Water (A1)		atic Fauna (B13)			egetated Concave Surface (B8)
High Water Table (A2)		Deposits (B15) (LRF			atterns (B10)
Saturation (A3)	-	rogen Sulfide Odor (0		Moss Trim I	
Water Marks (B1) Sediment Deposits (B2)		sence of Reduced Iro	long Living Roots (C3)	Dry-Seasor Crayfish Bu	Water Table (C2)
Drift Deposits (B3)		ent Iron Reduction in		-	/isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Muck Surface (C7)	Tilled Collo (CO)	✓ Geomorphic	
Iron Deposits (B5)		er (Explain in Remark	(S)	Shallow Aq	
Inundation Visible on Aerial Imagery		` '	,	✓ FAC-Neutra	
Water-Stained Leaves (B9)				Sphagnum	moss (D8) <b>(LRR T, U)</b>
Field Observations:					
Surface Water Present? Yes	_ No	Depth (inches):			
Water Table Present? Yes	_ No	Depth (inches):			
	_ No _ 🗸	Depth (inches):	Wetland	Hydrology Prese	nt? Yes <u>/</u> No
(includes capillary fringe)  Describe Recorded Data (stream gauge,	monitorina w	ell. aerial photos, pre	vious inspections), if a	vailable:	
33.,	3	- , <sub> </sub> , <sub> </sub>	.,,		
Remarks:					
Wetland hydrology present					

00	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:)  1 Liquidambar styraciflua	% Cover 15	Species? Yes	Status FAC	Number of Dominant Species
· ·	10			That Are OBL, FACW, or FAC:8 (A)
2. Acer rubrum		Yes	FAC	Total Number of Dominant
3. Quercus nigra	10	Yes	FAC	Species Across All Strata: 8 (B)
4. Pinus taeda	3	No	FAC	Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100 (A/B)
6				
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:  ORL species 20 x 1 = 20
	38	= Total Cov	er	OBL species
50% of total cover:	20% of	total cover:	7.6	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 15 )				FAC species x 3 =
1. Gordonia lasianthus	10	Yes	FACW	FACU species x 4 =
2. Acer rubrum	7	Yes	FAC	UPL species x 5 =
3. Rubus argutus	5	Yes	FAC	Column Totals:190 (A)493 (B)
4 Pinus taeda	3	No	FAC	0.50
				Prevalence Index = B/A =2.59
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				✓ 2 - Dominance Test is >50%
8				✓ 3 - Prevalence Index is ≤3.0 <sup>1</sup>
		= Total Cov	er	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
50% of total cover: 12.5	20% of	total cover:	5	
Herb Stratum (Plot size:)				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1. Panicum capillare	50	Yes	FAC	be present, unless disturbed or problematic.
2. Andropogon virginicus	30	Yes	FAC	Definitions of Four Vegetation Strata:
3. Arundinaria gigantea	15	No	FACW	
4. Carex prasina	10	No	OBL	<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5. Eleocharis obtusa	10	No	OBL	height.
6. Ilex coriacea	7	No	FACW	
7. Dichanthelium clandestinum	5	No	FACW	Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
•				and one per and groater than o.20 it (1 iii) tail.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12				
00.5		= Total Cov	0 = 4	
50% of total cover: 63.5	20% of	total cover:	25.4	
Woody Vine Stratum (Plot size:)				
1				
2				
3				
4				
5.				Hydrophytic
	0 :	= Total Cov	er	Vegetation
50% of total cover:		total cover:	^	Present? Yes No No
Remarks: (If observed, list morphological adaptations below		10101 00101.	·	
Tremarks. (II observed, list morphological adaptations below	w).			

SOIL Sampling Point: wsuc101f\_w2

Depth	cription: (Describe t Matrix			x Features				,
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
9-18	5 Y 6/1		YR 4/6	2	C	PL	SL	
-				·				
-								
-								
				·				
<sup>1</sup> Type: C=0	oncentration, D=Depl	etion, RM=Re	duced Matrix, MS	S=Masked	Sand Gr	ains.	<sup>2</sup> Location:	PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applica	able to all LRF	Rs, unless other	wise note	ed.)		Indicators t	for Problematic Hydric Soils <sup>3</sup> :
Histoso	I (A1)		Polyvalue Be	low Surfac	ce (S8) <b>(L</b>	.RR S, T, U	1 cm M	luck (A9) <b>(LRR O)</b>
	pipedon (A2)	<del>-</del>	Thin Dark Su					luck (A10) (LRR S)
	istic (A3)	<del>-</del>	Loamy Mucky					ed Vertic (F18) (outside MLRA 150A,B)
	en Sulfide (A4)	<del>-</del>	Loamy Gleye			,	<del></del>	ont Floodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)	-	Depleted Mat		/			lous Bright Loamy Soils (F20)
	Bodies (A6) (LRR P,	T. U)	Redox Dark S	. ,	6)			RA 153B)
_	ucky Mineral (A7) <b>(LR</b>		Depleted Dar	•	,			arent Material (TF2)
· <del></del>	resence (A8) (LRR U)		Redox Depre					hallow Dark Surface (TF12)
	uck (A9) <b>(LRR P, T)</b>	_	Marl (F10) <b>(L</b>		-,		-	Explain in Remarks)
	d Below Dark Surface	- (A11)	Depleted Och		(MLRA 1	51)	0.1101 (1	explain in Formanie,
	ark Surface (A12)	_	Iron-Mangane	, ,	•	•	<b>r)</b> <sup>3</sup> Indica	ators of hydrophytic vegetation and
	Prairie Redox (A16) <b>(N</b>	II RA 150A)	Umbric Surfa				•	and hydrology must be present,
	Mucky Mineral (S1) <b>(L</b>		Delta Ochric			, •,		ess disturbed or problematic.
	Gleyed Matrix (S4)		Reduced Ver			0Δ 150R)	unc	os distarbed of problematio.
	Redox (S5)	_	Piedmont Flo				9Δ)	
-	d Matrix (S6)	_					л, \ 149A, 153C,	153D)
	urface (S7) <b>(LRR P, S</b>	T II)	/ Womalous B	rigini Loui	ny cono (	1 20) (III EI (7	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1002)
	Layer (if observed):	, 1, 0)						
Type:			=					<b>~</b>
Depth (ir	iches):		_				Hydric Soil I	Present? Yes No
Remarks:								
Hydric soi pr	esent							
,								



Photo 1
Wetland data point wsuc101f\_w2 facing south



Photo 2
Wetland data point wsuc101f\_w2 facing west

Project/Site: Atlantic Coast Pipeline	City/0	County: City of Suffolk		Sampling Date: 9/18/2015		
Applicant/Owner: DOMINION	City/0		State: VA	Sampling Point: wsuc101e_w		
	Secti					
Landform (hillslope, terrace, etc.): Depres						
	Lat: 36.67094561					
Soil Map Unit Name: Rains fine sandy loa			NWI classific	ation: PEM1E, PSS1A		
Are climatic / hydrologic conditions on the						
Are Vegetation, Soil, or Hy						
Are Vegetation, Soil, or Hy						
SUMMARY OF FINDINGS – Atta	ach site map showing san	npling point locatio	ons, 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?  Remarks:	Yes No					
Wetland located with a small depression/						
HYDROLOGY						
Wetland Hydrology Indicators:			Secondary Indica	tors (minimum of two required)		
Primary Indicators (minimum of one is re	equired; check all that apply)		✓ Surface Soil	Cracks (B6)		
Surface Water (A1)	Aquatic Fauna (B13)		Sparsely Vegetated Concave Surface (B8)			
High Water Table (A2)	Marl Deposits (B15) (LR		Drainage Patterns (B10)			
Saturation (A3)	Hydrogen Sulfide Odor (		Moss Trim Li			
Water Marks (B1)	<ul><li>Oxidized Rhizospheres a</li><li>Presence of Reduced Iro</li></ul>		-	Water Table (C2)		
Sediment Deposits (B2) Drift Deposits (B3)	Recent Iron Reduction in		Crayfish Burr	sible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Tilled Collo (CO)	✓ Geomorphic			
Iron Deposits (B5)	Other (Explain in Remark	ks)	Shallow Aqui			
Inundation Visible on Aerial Imagery		,	FAC-Neutral	` '		
Water-Stained Leaves (B9)			Sphagnum m	noss (D8) (LRR T, U)		
Field Observations:						
	No Depth (inches):					
·	No Depth (inches):					
Saturation Present? Yes (includes capillary fringe)	No Depth (inches):	Wetland F	lydrology Presen	t? Yes <u>/</u> No		
Describe Recorded Data (stream gauge,	, monitoring well, aerial photos, pre	evious inspections), if ava	ilable:			
Remarks: Wetland hydrology present						

20	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC:3 (A)
2				Total Number of Dominant
3				Species Across All Strata: 3 (B)
4				
5.				Percent of Dominant Species That Are ORL FACILITIES 100 (A/R)
				That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8				OBL species x 1 = 40
0	0	= Total Cov		20 40
50% of total cover:0	20% of	total cover:	0	FACW species $\frac{20}{40}$ x 2 = $\frac{40}{120}$
Sapling/Shrub Stratum (Plot size:)				FAC species $\frac{40}{0}$ x 3 = $\frac{120}{0}$
1				FACU species x 4 =
2.				UPL species x 5 =
3.				Column Totals:(A)(B)
4				Prevalence Index = B/A =2
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				✓ 3 - Prevalence Index is ≤3.0 <sup>1</sup>
	0	= Total Cov	er	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover:		total cover:	•	Problematic Hydrophytic vegetation (Explain)
		10101 00101.		
Herb Stratum (Plot size:)  1 Panicum capillare	40	Yes	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
·	40			be present, unless disturbed or problematic.
2. Eleocharis palustris		Yes	OBL	Definitions of Four Vegetation Strata:
3. Arundinaria gigantea	20	Yes	FACW	<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6.		·		Sapling/Shrub – Woody plants, excluding vines, less
7.				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12				
	100	= Total Cov	er	
50% of total cover: 50		total cover:		
Woody Vine Stratum (Plot size: 30 )				
/ 100 d. 1110				
1				
2				
3				
4				
5				Hydrophytic
	0	= Total Cov	er	Vegetation
50% of total cover:0				Present? Yes No
Remarks: (If observed, list morphological adaptations belo				
Remarks. (If observed, list morphological adaptations belo	w).			

SOIL Sampling Point: wsuc101e\_w

Donth Matrix		Podo	x Feature	•			
Depth Matrix (inches) Color (moist)	%	Color (moist)	<u>x reature</u> %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-6 10 YR 3/2	98	10 YR 3/6	2	C	PL	SCL	
6-18 10 YR 5/1	98	10 YR 4/6	2	С	PL	SC	
1 Type: C=Concentration, D=Deple  Hydric Soil Indicators: (Applicate  Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Organic Bodies (A6) (LRR P, 7)  5 cm Mucky Mineral (A7) (LRR Muck Presence (A8) (LRR U)  1 cm Muck (A9) (LRR P, T)  Depleted Below Dark Surface  Thick Dark Surface (A12)  Coast Prairie Redox (A16) (MIC)  Sandy Mucky Mineral (S1) (LR Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7) (LRR P, S,	T, U) R P, T, U (A11) RA 150 RR O, S)	Polyvalue Be Polyvalue Be Thin Dark Su Loamy Mucky Loamy Gleye Popleted Mat Redox Dark S Depleted Dar Redox Depre Marl (F10) (L Depleted Och Iron-Mangane Loamy Gleye Marl (F10) (L Depleted Dar Redox Depre Marl (F10) (L Depleted Och Iron-Mangane Reduced Ver Piedmont Flo	wise not low Surface (S9 y Mineral ed Matrix (F3) Surface (Fak Surface (F11) ese Mass ce (F13) (F17) (ML tic (F18) (podplain S	ed.) ice (S8) (L ) (LRR S, (F1) (LRR (F2)  6 (F7) 8)  (MLRA 15 es (F12) ( (LRR P, T LRA 151) (MLRA 15 Goils (F19)	RR S, T, U T, U) O) LRR O, P, U) OA, 150B) (MLRA 149	Indicators for  1 cm Mucl 2 cm Mucl Reduced N Piedmont Anomalou (MLRA Red Parer Very Shall Other (Exp	nt Material (TF2) low Dark Surface (TF12) lolain in Remarks) rs of hydrophytic vegetation and d hydrology must be present, disturbed or problematic.
Restrictive Layer (if observed):  Type:							
Depth (inches):						Hydric Soil Pre	esent? Yes No
Remarks:							
Hydric soil present							



Photo 1
Wetland data point wsuc101e\_w facing north



Photo 2
Wetland data point wsuc101e\_w facing west

Project/Site: Atlantic Coast Pipeline	City/0	County: City of Suffolk		Sampling Date: 9/18/2015			
Applicant/Owner: DOMINION		City/County: City of Suffolk Sampling Date: 9/18/2015 State: VA Sampling Point: wsuc101s_w					
Investigator(s): Team C Section, Township, Range: No PLSS in this area							
	Loca						
				Datum: WGS 1984			
Soil Map Unit Name: Rains fine sandy loam	Lat	Long					
Are climatic / hydrologic conditions on the sit	e typical for this time of year?						
Are Vegetation, Soil, or Hydro							
Are Vegetation, Soil, or Hydro SUMMARY OF FINDINGS – Attac							
SUMMART OF FINDINGS - Attac	ii site iiiap siiowiiig sai		nis, transects,	, important leatures, etc.			
	es No	Is the Sampled Area					
	es No	within a Wetland?	Yes	No			
Wetland Hydrology Present? Y Remarks:	es No		'				
PSS area has been clearcut at some point v	The last two yours.						
HYDROLOGY							
Wetland Hydrology Indicators:			Secondary Indicat	tors (minimum of two required)			
Primary Indicators (minimum of one is requ		_	Surface Soil (				
Surface Water (A1)	Aquatic Fauna (B13)			etated Concave Surface (B8)			
High Water Table (A2)	Marl Deposits (B15) (LR		Drainage Pat				
Saturation (A3)	Hydrogen Sulfide Odor (		Moss Trim Lii				
Water Marks (B1)	Oxidized Rhizospheres a			Vater Table (C2)			
Sediment Deposits (B2)	Presence of Reduced Iro		Crayfish Burn				
Drift Deposits (B3)	Recent Iron Reduction in	Tilled Soils (C6)		sible on Aerial Imagery (C9)			
Algal Mat or Crust (B4) Iron Deposits (B5)	Thin Muck Surface (C7) Other (Explain in Remar	ke)	✓ Geomorphic I Shallow Aquit				
Inundation Visible on Aerial Imagery (E		N5)	FAC-Neutral	, ,			
Water-Stained Leaves (B9)	'')		· <del></del>	oss (D8) <b>(LRR T, U)</b>			
Field Observations:			<u> </u>	(20) (2.111 1, 0)			
Surface Water Present? Yes	No Depth (inches):						
	No Depth (inches):						
	No Depth (inches):		lydrology Presen	t? Yes 🗸 No			
(includes capillary fringe)							
Describe Recorded Data (stream gauge, m	onitoring well, aerial photos, pre	evious inspections), if ava	ilable:				
Remarks: Wetland hydrology present							

20	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:)	% Cover	Species?	Status	Number of Dominant Species _
1				That Are OBL, FACW, or FAC:5 (A)
2				Total Number of Dominant
3				Species Across All Strata: 5 (B)
4				
5.				Percent of Dominant Species That Are OBL FACIN or FAC: 100 (A/B)
				That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8				OBL species x 1 = 20
0	0	= Total Cove		FACW species 45 x 2 = 90
50% of total cover:0	20% of	total cover:	0	60 100
Sapling/Shrub Stratum (Plot size: 15 )				FAC species $\frac{60}{2}$ x 3 = $\frac{160}{2}$
1. Gordonia lasianthus	15	Yes	FACW	FACU species x 4 =
2. Ilex opaca	10	Yes	FAC	UPL species x 5 =
3. Liquidambar styraciflua	5	No	FAC	Column Totals:125
4. Acer rubrum	5	No	FAC	2.22
				Prevalence Index = B/A =2.32
5			-	Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				✓ 2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 <sup>1</sup>
	35	= Total Cove	er	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
50% of total cover: 17.5	20% of	total cover:	7	1 Toblematic Hydrophytic Vegetation (Explain)
Herb Stratum (Plot size: 5 )	_			1
1 Andropogon virginicus	40	Yes	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Arundinaria gigantea	30	Yes	FACW	
				Definitions of Four Vegetation Strata:
3. Scirpus cyperinus	20	Yes	OBL	<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8.				
				<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
9				or size, and woody plants less than 5.20 it tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12				
	90	= Total Cove	er	
50% of total cover: 45	20% of	total cover:	18	
Woody Vine Stratum (Plot size: 30 )				
1				
2				
3				
4				
5				Hydrophytic
	0	= Total Cove	er	Vegetation
50% of total cover:0	20% of	total cover:	0	Present? Yes No No
Remarks: (If observed, list morphological adaptations below	v).			1
(··, ··, ··	- /-			

SOIL Sampling Point: <u>wsuc101s\_w</u>

		o the dept	h needed to docur			or confirm	the absence of	indicators.)
Depth	Matrix Color (moist)	0/		x Feature	1	1.002	Toytung	Domarka
(inches) 0-11	Color (moist) 10 YR 2/2	100	Color (moist)	<u> </u>	_Type'	Loc <sup>2</sup>	Texture SL	Remarks
11-18	5 Y 5/1	99	10 YR 4/6	1	С	PL	SCL	
Type: C=C  Hydric Soil  Histosol  Histic E  Black H  Hydroge  Stratifier  Organic  5 cm Mu  Muck Pi  1 cm Mu  Deplete  Thick De  Coast P  Sandy M  Sandy O	oncentration, D=Depl	etion, RM= able to all I  T, U) R P, T, U) (A11)	Reduced Matrix, MS LRRs, unless other Polyvalue Be Thin Dark Su Loamy Muck Loamy Gleye Depleted Ma Redox Dark Su Depleted Dark Redox Depre Marl (F10) (L	S=Masked rwise not elow Surfa urface (S9 y Mineral ed Matrix ( trix (F3) Surface (F rk Surface essions (F .RR U) hric (F11) ese Mass ace (F13) ( (F17) (ML	Sand Gred.)   Ce (S8) (L   (LRR S, (F1) (LRF   F2)     (MLRA 1; (F12) (LRR P, T   LRA 151) (MLRA 15	ains.  RR S, T, U T, U) O)  51) LRR O, P,	²Location: PL Indicators for ) 1 cm Muci 2 cm Muci Reduced \( \) Piedmont Anomalou (MLRA \) Red Parer Very Shall Other (Exp	=Pore Lining, M=Matrix. Problematic Hydric Soils³: k (A9) (LRR O) k (A10) (LRR S) Vertic (F18) (outside MLRA 150A,B) Floodplain Soils (F19) (LRR P, S, T) us Bright Loamy Soils (F20) 153B) nt Material (TF2) low Dark Surface (TF12) plain in Remarks) urs of hydrophytic vegetation and d hydrology must be present, disturbed or problematic.
Stripped	Redox (S5) I Matrix (S6) rface (S7) <b>(LRR P, S</b>	, T, U)					эд) A 149A, 153C, 15	53D)
	Layer (if observed):	, , ,						
Type:	ches):		<u>—</u>				Hydric Soil Pre	esent? Yes No
Remarks:	ones)						Tryunc con i re	163 NO
Hydric soil pr	esent							



Photo 1
Wetland data point wsuc101s\_w facing west



Photo 2
Wetland data point wsuc101s\_w facing south

Project/Site: Atlantic Coast Pipeline	City/Co	unty: City of Suffolk		Sampling Date: 9/18/2015	
Applicant/Owner: DOMINION		, <u> </u>	State: VA	Sampling Point: wsuc101_u1	
	Section				
Landform (hillslope, terrace, etc.): Slight slope					
				Datum: WGS 1984	
Soil Map Unit Name: Rains fine sandy loam	Lai	Long			
	al familia timas of warm? Var	_			
Are climatic / hydrologic conditions on the site typic					
Are Vegetation, Soil, or Hydrology _					
Are Vegetation, Soil, or Hydrology _	naturally problemati	c? (If needed, e.	xplain any answe	rs in Remarks.)	
SUMMARY OF FINDINGS – Attach site	e map showing samp	oling point locatio	ns, transects	, important features, etc.	
Hydrophytic Vegetation Present? Yes	✓ No	la di a Oassanla d'Assa			
Hydric Soil Present? Yes	No <u> </u>	Is the Sampled Area within a Wetland?	Vas	No	
Wetland Hydrology Present? Yes	No	within a wettand?	1es	NO	
HYDROLOGY					
HYDROLOGY  Wetland Hydrology Indicators:			Secondary Indica	ators (minimum of two required)	
Primary Indicators (minimum of one is required; c	heck all that apply)		Surface Soil		
	Aquatic Fauna (B13)		<del></del>	getated Concave Surface (B8)	
	Marl Deposits (B15) (LRR		Drainage Patterns (B10)		
	Hydrogen Sulfide Odor (C1		Moss Trim Li		
Water Marks (B1)	Oxidized Rhizospheres alo	ng Living Roots (C3)	Dry-Season	Water Table (C2)	
Sediment Deposits (B2)	Presence of Reduced Iron	(C4)	Crayfish Bur	rows (C8)	
	Recent Iron Reduction in T	illed Soils (C6)		isible on Aerial Imagery (C9)	
	Thin Muck Surface (C7)			Position (D2)	
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	)	Shallow Aqui FAC-Neutral		
Water-Stained Leaves (B9)				noss (D8) <b>(LRR T, U)</b>	
Field Observations:			opnagnam n	1000 (20) <b>(2</b> 1111 1, <b>0)</b>	
	Depth (inches):				
	Depth (inches):				
Saturation Present? Yes No	Depth (inches):	Wetland H	ydrology Preser	nt? Yes No	
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitori	ng well aerial photos, previ	ous inspections) if avai	lahle:		
Describe Necorded Data (stream gauge, monitori	ng well, aerial priotos, previ	ous mapechons), ii avai	iabic.		
Remarks:					
No hydrology present					

30		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?	Status	Number of Dominant Species That Are ORL FACW or FAC: 2 (A)
1				That Are OBL, FACW, or FAC:2 (A)
2				Total Number of Dominant Species Across All Strata: 2 (B)
4				Species Across All Strata: (B)
5.				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6				That Are OBL, FACW, or FAC: (A/B)
7.				Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
	0	= Total Cov	er	OBL species x 1 =
50% of total cover:0	20% of	total cover	. 0	FACW species $0 \times 2 = 0$
Sapling/Shrub Stratum (Plot size:)				FAC species x 3 =
1				FACU species x 4 =
2.				UPL species x 5 = 117
3.				Column Totals: (A) (B)
4				Prevalence Index = B/A = 3.4
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				✓ 2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 <sup>1</sup>
	0	= Total Cov	er er	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
50% of total cover:0	20% of	total cover	0	
Herb Stratum (Plot size:5				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1. Panicum capillare	50	Yes	FAC	be present, unless disturbed or problematic.
2. Andropogon virginicus	40	Yes	FAC	Definitions of Four Vegetation Strata:
3. Rubus flagellaris	20	No	UPL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Sorghastrum nutans	7	No	FACU	more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12				
50.7	_	= Total Cov		
50% of total cover: 58.5	20% of	total cover	23.4	
Woody Vine Stratum (Plot size:)				
1				
2				
3	-			
4				
5				Hydrophytic
		= Total Cov		Vegetation Present? Yes No
50% of total cover:0		total cover	<u> </u>	
Remarks: (If observed, list morphological adaptations below	ow).			

SOIL Sampling Point: wsuc101\_u1

Depth	cription: (Describe to Matrix			x Feature				,
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks
0-12	10 YR 2/2	100					LS	
12-18	2.5 Y 5/3	98	10 YR 4/6	2	C	PL	LS	
Type: C=C Hydric Soil Histosol Histic E Black H Hydroge Stratifiee Organic 5 cm Mc Muck Pr 1 cm Mc Depletee Thick Do Coast P Sandy N Sandy N Sandy F Strippec Dark Su Restrictive	oncentration, D=Deplation (A1) pipedon (A2) istic (A3) en Sulfide (A4) d Layers (A5) Bodies (A6) (LRR P, Lucky Mineral (A7) (LR resence (A8) (LRR U) Luck (A9) (LRR P, T) d Below Dark Surface ark Surface (A12) rrairie Redox (A16) (M Mucky Mineral (S1) (LE Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR P, S, Layer (if observed):	T, U)  (A11)  LRA 150 RR O, S)	=Reduced Matrix, MS LRRs, unless other  Polyvalue Be Thin Dark Su Loamy Mucky Loamy Gleye Depleted Mar Redox Dark S Redox Depre Marl (F10) (L Depleted Och Iron-Mangane	S=Masked rwise not low Surface rface (S9 y Mineral ed Matrix trix (F3) Surface (I ck Surface essions (F RR U) nric (F11) esse Mass ce (F13) (F17) (MI tic (F18) podplain S	d Sand Graded.) ace (S8) (L ) (LRR S, (F1) (LRR (F2) (MLRA 1: es (F12) ( (LRR P, T LRA 151) (MLRA 15 Goils (F19)	ains.  RR S, T, U T, U) OA, 150B) (MLRA 14	<sup>2</sup> Location: F Indicators f )	



Photo 1 Upland data point wsuc101\_u1 facing east



Photo 2 Upland data point wsuc101\_u1 facing north

Project/Site: Atlantic Coast Pipeline		City/County: City of Suffolk Sampling Date: 9/19/2						
				State: VA	Sampling Point: wsuc101_u2			
Investigator(s): Team C		Section	on, Township, Range					
Landform (hillslope, terrace, etc.): Slight								
Subregion (LRR or MLRA): T								
Soil Map Unit Name: Rains fine sand	v loam	_ Lat						
		Abia Aimaa afaa 2						
Are climatic / hydrologic conditions on								
Are Vegetation, Soil,								
Are Vegetation, Soil,	or Hydrology	_ naturally problema	atic? (If neede	ed, explain any answe	ers in Remarks.)			
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.								
Hydrophytic Vegetation Present?	Yes	No	la di a Cannala di Ann					
Hydric Soil Present?	Yes		Is the Sampled Are		No 🗸			
Wetland Hydrology Present?	Yes	No	within a Wetland?	res	NO			
LIVEROLOGY								
HYDROLOGY Wetland Hydrology Indicators:				Secondary Indic	ators (minimum of two required)			
Primary Indicators (minimum of one	is required; check :	all that annly)		Secondary Indicators (minimum of two required) Surface Soil Cracks (B6)				
Surface Water (A1)	-		Sparsely Vegetated Concave Surface (B8)					
High Water Table (A2)	Aquatic Fauna (B13) Marl Deposits (B15) <b>(LRR U)</b>			Opinion vegetated dollare (Bb)				
Saturation (A3)		ogen Sulfide Odor (		Moss Trim Lines (B16)				
Water Marks (B1)		-	along Living Roots (C					
Sediment Deposits (B2)	Prese	n (C4)	Crayfish Burrows (C8)					
Drift Deposits (B3)								
Algal Mat or Crust (B4) Thin Muck Surface (C7)				Geomorphic Position (D2)				
Iron Deposits (B5)		r (Explain in Remarl	(S)	Shallow Aqu				
Inundation Visible on Aerial Ima Water-Stained Leaves (B9)	gery (B7)			FAC-Neutra	moss (D8) <b>(LRR T, U)</b>			
Field Observations:				Opinagnami	11033 (DO) (ERR 1, 0)			
	No 🗸	Depth (inches):						
		Depth (inches):		1				
		Depth (inches):		Wetland Hydrology Present? Yes No				
(includes capillary fringe)  Describe Recorded Data (stream ga				available:				
Describe Recorded Data (stream ga	luge, monitoring we	en, aeriai priotos, pre	evious irispections), ii	avaliable.				
Remarks:								
No wetland hydrology indicators pres	sent							

20	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:)		Species?	Status	Number of Dominant Species
1. Pinus taeda	70	Yes	FAC	That Are OBL, FACW, or FAC:3 (A)
2. Liquidambar styraciflua		No	FAC	Total Number of Dominant
3				Species Across All Strata: 4 (B)
4				Descrit of Descinant Charies
5				Percent of Dominant Species That Are OBL, FACW, or FAC:75 (A/B)
6				
7				Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
	77	= Total Cov	er	OBL species x 1 =0
50% of total cover: 38.5		total cover:	15.4	FACW species0 x 2 =0
Sapling/Shrub Stratum (Plot size: 15 )	20 /0 01	total cover.		FAC species132
Liquida sala sa atura aiffusa	30	Yes	FAC	FACU species15 x 4 =60
1. Liquidambar styraciilua 2. Acer rubrum	20	Yes	FAC	UPL species 0 x 5 = 0
	5			Column Totals: 147 (A) 456 (B)
3. Aralia spinosa		No	FAC	(1)
4				Prevalence Index = B/A = 3.1
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				✓ 2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 <sup>1</sup>
	55	= Total Cov	er	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
50% of total cover: 27.5	20% of	total cover:	11	Troblematic Tryanophytic Vogetation (Explain)
Herb Stratum (Plot size: 5 )	<del></del>			<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1 Lonicera japonica	15	Yes	FACU	be present, unless disturbed or problematic.
"				Definitions of Four Vegetation Strata:
2				Definitions of Four Vegetation Strata.
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10.				
11				<b>Woody vine</b> – All woody vines greater than 3.28 ft in height.
12.				neight.
12.	15			
50% of total cover: 7.5		= Total Cov	_	
30 /0 01 total cover.	20% of	total cover:		
Woody Vine Stratum (Plot size:)				
1				
2				
3				
4				
5.				Hydrophytic
	0	= Total Cov	er	Vegetation
50% of total cover:		total cover:		Present? Yes No No
Remarks: (If observed, list morphological adaptations belo		total oover.		
Remarks. (II observed, list morphological adaptations belo	w).			

SOIL Sampling Point: wsuc101\_u2

Depth	cription: (Describe to Matrix			x Feature				,	
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	3
0-4	10 YR 2/2	100					LS		
4-18	2.5 Y 5/6	100			· '		LS		_
					·				
					-				
-									
					<del>.</del> .				
	oncentration, D=Dep					ains.		Pore Lining, M=Ma	
-	Indicators: (Application)	able to all L				DD C T III		Problematic Hydri	C Solls :
Histoso	pipedon (A2)		Polyvalue Be Thin Dark Su					(A9) (LRR 0) (A10) (LRR S)	
	istic (A3)		Loamy Muck					ertic (F18) <b>(outsid</b>	e MLRA 150A,B)
	en Sulfide (A4)		Loamy Gleye			·		loodplain Soils (F1	
Stratifie	d Layers (A5)		Depleted Ma	ıtrix (F3)			Anomalous	Bright Loamy Soils	s (F20)
_	Bodies (A6) (LRR P,		Redox Dark				(MLRA 1		
	ucky Mineral (A7) <b>(LR</b>		Depleted Da					Material (TF2)	E40)
	resence (A8) (LRR U uck (A9) (LRR P, T)	)	Redox Depre Marl (F10) <b>(L</b>		8)			w Dark Surface (T ain in Remarks)	F12)
	d Below Dark Surface	e (A11)	Depleted Oc		(MLRA 1	51)	Other (Expi	am m Kemarks)	
	ark Surface (A12)	,	Iron-Mangan				<b>r)</b> <sup>3</sup> Indicators	of hydrophytic veg	getation and
Coast F	Prairie Redox (A16) <b>(N</b>	/ILRA 150A)	Umbric Surfa	ace (F13)	(LRR P, T	, U)	wetland	hydrology must be	present,
-	Mucky Mineral (S1) (L	.RR O, S)	Delta Ochric				unless d	isturbed or probler	natic.
	Gleyed Matrix (S4)		Reduced Ve				) A)		
-	Redox (S5) d Matrix (S6)		Piedmont Flo				эд) A 149A, 153C, 153	וח	
	urface (S7) <b>(LRR P, S</b>	, T, U)	7 (1011lalous E	ongni Loa	my cons (	1 20) (111211)	1 1457, 1000, 100	2,	
	Layer (if observed):								
Type:			<u></u>						
Depth (ir	ches):						Hydric Soil Pres	sent? Yes	No <u> </u>
Remarks:							<u> </u>		
No hydric soi	l present								



Photo 1 Upland data point wsuc101\_u2 facing north



Photo 2
Upland data point wsuc101\_u2 facing west

Project/Site: Atlantic Coast Pipeline	City/County: (	City of Suffolk		Sampling Date: 9/18/2015			
Applicant/Owner: DOMINION	Sta	ite: VA	Sampling Point: wsuc100f_w				
	Section, Towr						
Landform (hillslope, terrace, etc.): Slight slope							
Subregion (LRR or MLRA): T							
Soil Map Unit Name: Rains fine sandy loam							
Are climatic / hydrologic conditions on the site typical f							
Are Vegetation, Soil, or Hydrology	significantly disturbed?	Are "Normal Ci	rcumstances" pr	resent? Yes No			
Are Vegetation, Soil, or Hydrology	naturally problematic?	(If needed, exp	lain any answers	s in Remarks.)			
SUMMARY OF FINDINGS - Attach site n	nap showing sampling	point locations	s, transects,	important features, etc.			
Hydrophytic Vegetation Present? Yes	No Is the						
	No.	Sampled Area					
	No within	a Wetland?	Yes	No			
Remarks:							
Wetland is a mosaic of wetland with upland hummock	s.						
HYDROLOGY							
Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of one is required; chec			_ Surface Soil C	, ,			
	uatic Fauna (B13)			etated Concave Surface (B8)			
	arl Deposits (B15) (LRR U)		_ Drainage Patt				
	drogen Sulfide Odor (C1)	na Dooto (C2)	Moss Trim Lines (B16)				
	idized Rhizospheres along Livi esence of Reduced Iron (C4)	ng Roots (C3)					
	cent Iron Reduction in Tilled S		Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)				
	in Muck Surface (C7)		Saturation visible on Aerial Imagery (C9)  Geomorphic Position (D2)				
	ner (Explain in Remarks)	_	Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7)	· (	~	FAC-Neutral Test (D5)				
Water-Stained Leaves (B9)			Sphagnum mo	oss (D8) (LRR T, U)			
Field Observations:							
Surface Water Present? Yes No	Depth (inches):						
Water Table Present? Yes No	Depth (inches):						
	Depth (inches):	Wetland Hyd	Irology Present	? Yes <u>/</u> No			
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring)	well aerial photos previous in	spections) if availat	nle:				
Describe Necorded Data (stream gauge, mornioring	wen, aenai priotos, previous in	spections), ii availai	oic.				
Remarks:							
Wetland hydrology indicators are present							
, , , , , , , , , , , , , , , , , , , ,							

••	Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size:)	% Cover	Species?	Status	Number of Dominant Species		
1. Acer rubrum	20	Yes	FAC	That Are OBL, FACW, or FAC: 6 (A)		
2. Liquidambar styraciflua	15	Yes	FAC	Total Number of Deminent		
3. Ilex opaca	10	Yes	FAC	Total Number of Dominant Species Across All Strata: 6 (B)		
4						
5				Percent of Dominant Species That Are OBL FACW or FAC: 100 (A/B)		
				That Are OBL, FACW, or FAC:(A/B)		
				Prevalence Index worksheet:		
7	-			Total % Cover of: Multiply by:		
8	45			OBL species		
22.5		= Total Cov	er 9	FACW species 10 x 2 = 20		
50% of total cover: 22.5	20% of	total cover:		1/15 / 1/25		
Sapling/Shrub Stratum (Plot size:)				FAC species		
1. Ilex opaca	10	Yes	FAC	FACU species X 4 =		
2. Acer rubrum	10	Yes	FAC	UPL species $\frac{0}{178}$ x 5 = $\frac{0}{487}$ (B)		
3				Column Totals:(A)(B)		
4				Prevalence Index = R/A = 2.73		
_				T Tevalcinec index = B/A =		
··-				Hydrophytic Vegetation Indicators:		
6				1 - Rapid Test for Hydrophytic Vegetation		
7				2 - Dominance Test is >50%		
8				3 - Prevalence Index is ≤3.0¹		
		= Total Cov		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
50% of total cover:10	20% of	total cover:	4			
Herb Stratum (Plot size:)				<sup>1</sup> Indicators of hydric soil and wetland hydrology must		
1. Panicum capillare	60	Yes	FAC	be present, unless disturbed or problematic.		
2. Andropogon virginicus	15	No	FAC	Definitions of Four Vegetation Strata:		
3. Arundinaria gigantea	10	No	FACW			
4. Scirpus cyperinus	10	No	OBL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or		
5. Carex prasina	10	No	OBL	more in diameter at breast height (DBH), regardless of height.		
6 Smilax rotundifolia	5	No	FAC			
0.	3			Sapling/Shrub – Woody plants, excluding vines, less		
7. Sorghastrum nutans		No	FACU	than 3 in. DBH and greater than 3.28 ft (1 m) tall.		
8				Herb – All herbaceous (non-woody) plants, regardless		
9				of size, and woody plants less than 3.28 ft tall.		
10				Woody vine – All woody vines greater than 3.28 ft in		
11				height.		
12						
	113 :	= Total Cov	er			
50% of total cover: 56.5		total cover:	00.0			
Woody Vine Stratum (Plot size:30)						
,						
1						
2						
3						
4						
5				Hydrophytic		
	:	= Total Cov	er	Vegetation		
50% of total cover:0	20% of	total cover:	0	Present? Yes No No		
Remarks: (If observed, list morphological adaptations below	w).					
	,					

SOIL Sampling Point: wsuc100f\_w

Depth	cription: (Describe t Matrix	·		x Feature				ŕ		
(inches)	Color (moist)	%	Color (moist)	%	_Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Re	marks	
0-8	10 YR 2/2	100					SCL			
8-18	10 YR 4/2	98	10 YR 4/6	2	С	PL	SC			
	Concentration, D=Depl Indicators: (Applica					ains.		L=Pore Lining, or Problematic		
-		ible to all				DD C T II			-	Solis :
Histoso	pipedon (A2)		Polyvalue Be Thin Dark Su					ck (A9) <b>(LRR O</b> ck (A10) <b>(LRR</b> :		
	listic (A3)		Loamy Mucky							/ILRA 150A,B)
	en Sulfide (A4)		Loamy Gleye			·		t Floodplain So		
	ed Layers (A5)		Depleted Mat	. ,				us Bright Loam	y Soils (I	F20)
_	Bodies (A6) (LRR P,		Redox Dark S	•	,		(MLRA			
	ucky Mineral (A7) (LR		Depleted Dar					ent Material (TF	,	2)
	resence (A8) (LRR U) uck (A9) (LRR P, T)	1	Redox Depre Marl (F10) <b>(L</b>		8)			illow Dark Surfa xplain in Remar		2)
	ed Below Dark Surface	(A11)	Depleted Och		(MLRA 1	51)	Outer (E.	kpiaiii iii ikeiiiai	K3)	
	ark Surface (A12)	,	Iron-Mangan				T) <sup>3</sup> Indicat	ors of hydrophy	tic veget	tation and
	Prairie Redox (A16) <b>(M</b>		) Umbric Surfa	ce (F13)	(LRR P, T	, U)	wetlar	nd hydrology m	ust be pr	resent,
	Mucky Mineral (S1) (L	RR O, S)	Delta Ochric				unles	s disturbed or p	roblema	tic.
	Gleyed Matrix (S4)		Reduced Ver				0.4)			
-	Redox (S5) d Matrix (S6)		Piedmont Flo				9A) A 149A, 153C, 1	53D)		
	urface (S7) <b>(LRR P, S</b>	, T, U)	Anomaious E	night Loa	illy colls (	(WEIC	A 143A, 1330, 1	330)		
	Layer (if observed):	,								
Type:			<u></u>							
Depth (ir	nches):						Hydric Soil P	resent? Yes		No
Remarks:							1			
Hydric soil in	dicators are present									
ı										



Photo 1
Wetland data point wsuc100f\_w facing south



Photo 2
Wetland data point wsuc100f\_w facing west

Project/Site: Atlantic Coast Pipeline	City/0	County: City of Suffolk		Sampling Date: 9/18/2015			
Applicant/Owner: DOMINION	City/C	,	State: VA	Sampling Point: wsuc100s_w			
Investigator(s): Team C Section, Township, Range: No PLSS in this area							
	Local						
				Datum: WGS 1984			
Soil Map Unit Name: Rains fine sandy loam		Long					
Are climatic / hydrologic conditions on the si							
Are Vegetation, Soil, or Hydr							
Are Vegetation, Soil, or Hydr	rology naturally problem	atic? (If needed, e	explain any answe	rs in Remarks.)			
SUMMARY OF FINDINGS - Attac	ch site map showing san	npling point location	ons, transects	, important features, etc.			
Hydrophytic Vegetation Present?	Yes No						
	res <u>/</u> No	Is the Sampled Area					
	res V No	within a Wetland?	Yes	No			
Remarks:							
PSS area has been clearcut at some point	within the last five years.						
·	•						
HYDROLOGY							
Wetland Hydrology Indicators:			Secondary Indica	tors (minimum of two required)			
Primary Indicators (minimum of one is requ	uired: check all that apply)		Surface Soil				
Surface Water (A1)	Aquatic Fauna (B13)			getated Concave Surface (B8)			
High Water Table (A2)	Marl Deposits (B15) (LR	R II)	Drainage Patterns (B10) Moss Trim Lines (B16)				
Saturation (A3)	Hydrogen Sulfide Odor (						
Water Marks (B1)	Oxidized Rhizospheres a						
Sediment Deposits (B2)	Presence of Reduced Iro		Crayfish Burrows (C8)				
Drift Deposits (B3)	Recent Iron Reduction in						
Algal Mat or Crust (B4)	Thin Muck Surface (C7)		Geomorphic Position (D2)				
Iron Deposits (B5)	Other (Explain in Remark	ks)	Shallow Aqui				
Inundation Visible on Aerial Imagery (I		,	FAC-Neutral				
Water-Stained Leaves (B9)	,		·	noss (D8) (LRR T, U)			
Field Observations:							
Surface Water Present? Yes	No Depth (inches):						
	No Depth (inches):						
	No Pepth (inches):		lydrology Presen	t? Yes 🗸 No			
(includes capillary fringe)							
Describe Recorded Data (stream gauge, n	nonitoring well, aerial photos, pre	evious inspections), if ava	ilable:				
Davida							
Remarks:							
Wetland hydrology indicators present							

00	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:)		Species?		Number of Dominant Species
1. Liquidambar styraciflua	10	Yes	FAC	That Are OBL, FACW, or FAC: 6 (A)
2				Total Number of Dominant
3				Species Across All Strata: 6 (B)
4				
5.				Percent of Dominant Species That Are ORL FACW or FAC: 100 (A/R)
				That Are OBL, FACW, or FAC:(A/B)
				Prevalence Index worksheet:
7		-		Total % Cover of: Multiply by:
8	10			OBL species15 x 1 =15
E		= Total Cov		FACW species30
50% of total cover:5	20% of	total cover:	2	55 165
Sapling/Shrub Stratum (Plot size:)				FAC species x 3 = 60
1. Acer rubrum	10	Yes	FAC	FACU species x 4 =
2. Liquidambar styraciflua	5	Yes	FAC	UPL species x 5 =
3. Gordonia lasianthus	5	Yes	FACW	Column Totals:115 (A) (B)
4.				Prevalence Index = $R/\Delta$ = 2.6
Ē				Trevalence mack - B/A -
···				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0¹
	20	= Total Cov	er	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
50% of total cover: 10	20% of	total cover:	4	
Herb Stratum (Plot size:)				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1. Arundinaria gigantea	25	Yes	FACW	be present, unless disturbed or problematic.
2. Panicum capillare	20	Yes	FAC	Definitions of Four Vegetation Strata:
3. Scirpus cyperinus	15	No	OBL	
4 Lactuca canadensis	15	No	FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
5. Andropogon virginicus	10	No	FAC	more in diameter at breast height (DBH), regardless of height.
•				
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				<b>Herb</b> – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10.				Weedy vine All woody vines greater than 2.29 ft in
11.				<b>Woody vine</b> – All woody vines greater than 3.28 ft in height.
12.				
	85	= Total Cov		
50% of total cover: 42.5		total cover:		
50 % of total cover.	20% 01	total cover.	· ——	
Woody Vine Stratum (Plot size: 30 )				
1				
2				
3				
4				
5.				Hydrophytic
	0	= Total Cov	er	Vegetation
50% of total cover:		total cover:		Present? Yes No
		total cover.		
Remarks: (If observed, list morphological adaptations belo	w).			

SOIL Sampling Point: <u>wsuc100s\_w</u>

		o the dept	h needed to docur			or confirm	the absence of	indicators.)
Depth	Matrix Color (moist)	0/		x Feature	1	1.002	Toytung	Domarka
(inches) 0-11	Color (moist) 10 YR 2/2	100	Color (moist)	<u> </u>	_Type'	Loc <sup>2</sup>	Texture SL	Remarks
11-18	5 Y 5/1	99	10 YR 4/6	1	С	PL	SCL	
Type: C=C  Hydric Soil  Histosol  Histic E  Black H  Hydroge  Stratifier  Organic  5 cm Mu  Muck Pi  1 cm Mu  Deplete  Thick De  Coast P  Sandy M  Sandy O	oncentration, D=Depl	etion, RM= able to all I  T, U) R P, T, U) (A11)	Reduced Matrix, MS LRRs, unless other Polyvalue Be Thin Dark Su Loamy Muck Loamy Gleye Depleted Ma Redox Dark Su Depleted Dark Redox Depre Marl (F10) (L	S=Masked rwise not elow Surfa urface (S9 y Mineral ed Matrix ( trix (F3) Surface (F rk Surface essions (F .RR U) hric (F11) ese Mass ace (F13) ( (F17) (ML	Sand Gred.)   Ce (S8) (L   (LRR S, (F1) (LRF   F2)     (MLRA 1; (F12) (LRR P, T   LRA 151) (MLRA 15	ains.  RR S, T, U T, U) O)  51) LRR O, P,	²Location: PL Indicators for ) 1 cm Muci 2 cm Muci Reduced \( \) Piedmont Anomalou (MLRA \) Red Parer Very Shall Other (Exp	=Pore Lining, M=Matrix. Problematic Hydric Soils³: k (A9) (LRR O) k (A10) (LRR S) Vertic (F18) (outside MLRA 150A,B) Floodplain Soils (F19) (LRR P, S, T) us Bright Loamy Soils (F20) 153B) nt Material (TF2) low Dark Surface (TF12) plain in Remarks) urs of hydrophytic vegetation and d hydrology must be present, disturbed or problematic.
Stripped	Redox (S5) I Matrix (S6) rface (S7) <b>(LRR P, S</b>	, T, U)					эд) A 149A, 153C, 15	53D)
	Layer (if observed):	, , ,						
Type:	ches):		<u>—</u>				Hydric Soil Pre	esent? Yes No
Remarks:	ones)						Tryunc con i re	163 NO
Hydric soil pr	esent							



Photo 1
Wetland data point wsuc100s\_w facing north



Photo 2
Wetland data point wsuc100s\_w facing east

Project/Site: Atlantic Coast Pipeline	City/	County: City of Suffolk		Sampling Date: 9/18/2015			
Applicant/Owner: DOMINION	City/County: City of Suffolk Sampling Date: 9/18/2015 State: VA Sampling Point: wsuc100_u						
Investigator(s): Team C	Secti						
Landform (hillslope, terrace, etc.): Slight s							
				Datum: WGS 1984			
Soil Map Unit Name: Rains fine sandy loa		Long					
Are climatic / hydrologic conditions on the							
Are Vegetation, Soil, or Hy							
Are Vegetation, Soil, or Hy			explain any answe				
SUMMARY OF FINDINGS – Atta	ach site map showing sar	npling point locatio	ons, transects	s, important reatures, etc.			
Hydrophytic Vegetation Present?	Yes No	Is the Sampled Area					
Hydric Soil Present?	Yes No	within a Wetland?	Yes	No 🗸			
Wetland Hydrology Present?  Remarks:	Yes No						
HYDROLOGY							
Wetland Hydrology Indicators:			Secondary Indica	ators (minimum of two required)			
Primary Indicators (minimum of one is re	equired; check all that apply)		Surface Soil Cracks (B6)				
Surface Water (A1)			getated Concave Surface (B8)				
High Water Table (A2)	Aquatic Fauna (B13) Marl Deposits (B15) <b>(LR</b>	R U)	Drainage Pa				
Saturation (A3)	Hydrogen Sulfide Odor (	(C1)	Moss Trim L	ines (B16)			
Water Marks (B1)	Oxidized Rhizospheres	along Living Roots (C3)	C3) Dry-Season Water Table (C2)				
Sediment Deposits (B2)	Presence of Reduced Ire	on (C4)	Crayfish Burrows (C8)				
Drift Deposits (B3)	Recent Iron Reduction in	n Tilled Soils (C6)	6) Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	Thin Muck Surface (C7)		Geomorphic	Geomorphic Position (D2)			
Iron Deposits (B5)	Other (Explain in Remar	ks)	Shallow Aqu				
Inundation Visible on Aerial Imagery	(B7)		FAC-Neutral				
Water-Stained Leaves (B9)			Sphagnum r	moss (D8) (LRR T, U)			
Field Observations:	No. V Double (inches).						
	No Depth (inches):						
	No Depth (inches): Depth (inches):		leedna la me Dona a se	nt? Yes No 🗸			
(includes capillary fringe)				nt? Yes No			
Describe Recorded Data (stream gauge,	monitoring well, aerial photos, pro	evious inspections), if ava	ilable:				
				_			
Remarks:  No wetland hydrology indicators present							
No wettand hydrology indicators present							

00	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?	Status	Number of Dominant Species
1. Quercus nigra	50	Yes	FAC	That Are OBL, FACW, or FAC: 2 (A)
2. Acer rubrum	15	No	FAC	Total Number of Dominant
3. Liquidambar styraciflua	10	No	FAC	Species Across All Strata: 3 (B)
4. Pinus taeda	5	No	FAC	
5				Percent of Dominant Species That Are OBL, FACW, or FAC:  66.6666666 (A/B)
6.				That Are OBL, I ACW, OF I AC.
				Prevalence Index worksheet:
7	•			Total % Cover of: Multiply by:
8	80			OBL species0 x 1 =0
40		= Total Cove	16	FACW species 60 x 2 = 120
50% of total cover: 40	20% of	total cover:		FAC species 95 x 3 = 285
Sapling/Shrub Stratum (Plot size: 15 )				
1. Sassafras albidum	7	Yes	FACU	FACU species x 4 = 28
2				UPL species X 5 =
3				Column Totals: (A) 433 (B)
4.				Prevalence Index = R/A = 2.67
				Trevalence mack Birt
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0¹
		= Total Cove	er	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
50% of total cover: 3.5	20% of	total cover:	1.4	
Herb Stratum (Plot size:)				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1 Arundinaria gigantea	60	Yes	FACW	be present, unless disturbed or problematic.
2. Smilax rotundifolia	10	No	FAC	Definitions of Four Vegetation Strata:
3. Toxicodendron radicans	5	No	FAC	Definitions of Four Vegetation of ata.
			1710	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				
	-			<b>Woody vine</b> – All woody vines greater than 3.28 ft in
				height.
12	75			
27.5		= Total Cove		
50% of total cover: 37.5	20% of	total cover:	15	
Woody Vine Stratum (Plot size:)				
1				
2				
3				
4.				
5				
J		= Total Cove		Hydrophytic Vegetation
50% of total cover: 0				Present? Yes No
		total cover:		
Remarks: (If observed, list morphological adaptations below	w).			

SOIL Sampling Point: wsuc100\_u

Depth	cription: (Describe to Matrix			x Feature				,	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remar	ks
0-3	10 YR 3/2	100					S		
13-18	2.5 Y 5/3	99	10 YR 3/6	1	С	PL	LS		
				-	-				
-				_					
	-			-					
	oncentration, D=Dep					ains.		=Pore Lining, M=N	
-	Indicators: (Applica	able to all						Problematic Hyd	lric Soils³:
Histoso	· ,		Polyvalue Be					k (A9) <b>(LRR O)</b>	
	pipedon (A2)		Thin Dark Su					k (A10) <b>(LRR S)</b>	
<del></del>	istic (A3)		Loamy Muck			( 0)			de MLRA 150A,B) -19) (LRR P, S, T)
	en Sulfide (A4) d Layers (A5)		Loamy Gleye Depleted Ma		(ГΖ)			is Bright Loamy Sc	
	: Bodies (A6) (LRR P	T. U)	Redox Dark		<del>-</del> 6)		(MLRA		) (1 ZO)
_	ucky Mineral (A7) <b>(LR</b>		Depleted Da					nt Material (TF2)	
	resence (A8) (LRR U		Redox Depre					low Dark Surface (	TF12)
	uck (A9) (LRR P, T)	•	Marl (F10) <b>(L</b>		,			plain in Remarks)	,
Deplete	d Below Dark Surface	e (A11)	Depleted Oc	hric (F11)	(MLRA 1	51)			
	ark Surface (A12)		Iron-Mangan					rs of hydrophytic v	-
	Prairie Redox (A16) (N					', U)		d hydrology must b	
	Mucky Mineral (S1) (L	.RR O, S)	Delta Ochric				unless	disturbed or proble	ematic.
	Gleyed Matrix (S4)		Reduced Ve				0.4.\		
	Redox (S5)		Piedmont Flo					(2D)	
	d Matrix (S6) urface (S7) <b>(LRR P, S</b>	T 11)	Anomalous E	angnt Loa	my Solls (	F20) (WILK	A 149A, 153C, 15	30)	
	Layer (if observed):								
Type:	-h\.		<del></del>				Unadaia Cail Da	12 V	No. V
	iches):		<del></del>				Hydric Soil Pre	esent? Yes	No
Remarks:									
No hydric so	I indicators present								



Photo 1 Upland data point wsuc100\_u facing south



Photo 2 Upland data point wsuc100\_u facing east

Project/Site: Atlantic Coast Pipeline		City/C	County: City of Suffolk		Sampling Date: 11/16/2015			
Applicant/Owner: DOMINION	State: VA	Sampling Point: wsuc005f_w						
	on, Township, Range: _							
Landform (hillslope, terrace, etc.): Basin								
Subregion (LRR or MLRA): T								
Soil Map Unit Name: Rains fine sandy loa		cation: PSS1/FO1C						
		this time of year?	_					
Are climatic / hydrologic conditions on the								
Are Vegetation, Soil, or Hy								
Are Vegetation, Soil, or Hy	drology	naturally problema	atic? (If needed	, explain any answe	ers in Remarks.)			
SUMMARY OF FINDINGS – Atta	ach site ma	ap showing sam	pling point locat	ions, transects	s, important features, etc.			
Hydrophytic Vegetation Present?	Yes 🗸	No	the Original Annual					
Hydric Soil Present?		No	Is the Sampled Area within a Wetland?		No			
Wetland Hydrology Present?		No	WITHIN a Wellanu:	169	NO			
Remarks:		•						
Floodplain pool								
HYDROLOGY				O condition leading	· · · · · · · · · · · · · · · · · · ·			
Wetland Hydrology Indicators:	·!	" 414		Secondary Indicators (minimum of two required)  Surface Soil Cracks (B6)				
Primary Indicators (minimum of one is re								
Surface Water (A1)		atic Fauna (B13)	3 I IV		getated Concave Surface (B8)			
✓ High Water Table (A2)		Deposits (B15) (LRF		Drainage Pa	atterns (B10)			
Saturation (A3) Water Marks (B1)	-	rogen Sulfide Odor (0 lized Rhizospheres a	। long Living Roots (C3)					
Sediment Deposits (B2)		sence of Reduced Iro		b) Dry-Season Water Table (C2) Crayfish Burrows (C8)				
Drift Deposits (B3)		ent Iron Reduction in		Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)		Muck Surface (C7)	(,	✓ Geomorphic Position (D2)				
Iron Deposits (B5)		er (Explain in Remark	(S)	Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery		` .	,	FAC-Neutral Test (D5)				
Water-Stained Leaves (B9)					moss (D8) <b>(LRR T, U)</b>			
Field Observations:								
		Depth (inches):						
		Depth (inches): $\frac{8}{0}$						
	No	Depth (inches): 0	Wetland	Hydrology Prese	nt? Yes 🔽 No			
(includes capillary fringe)  Describe Recorded Data (stream gauge,	monitoring we	ell, aerial photos, pre	vious inspections), if a	vailable:				
			-					
Remarks:								
Wetland hydrology indicators present								

20	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:)		Species?	Status	Number of Dominant Species
1. Pinus taeda	85	Yes	FAC	That Are OBL, FACW, or FAC: 6 (A)
2. Ilex opaca	5	No	FAC	Total Number of Dominant
3				Species Across All Strata: 6 (B)
4				
5				Percent of Dominant Species That Are OBL FACW or FAC: 100 (A/B)
0				That Are OBL, FACW, or FAC:(A/B)
				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8				OBL species0 x 1 =0
45	90	= Total Cov		10 00
50% of total cover: 45	20% of	total cover:	18	FACW species x 2 = 20 345
Sapling/Shrub Stratum (Plot size: 15 )				FAC species $\frac{113}{0}$ $\times 3 = \frac{343}{0}$
1. Liquidambar styraciflua	10	Yes	FAC	FACU species x 4 =
2 Ilex opaca	5	Yes	FAC	UPL species x 5 =
3.				Column Totals:125
				2.02
4				Prevalence Index = B/A =2.92
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				✓ 3 - Prevalence Index is ≤3.0¹
	15	= Total Cov	er	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
50% of total cover: 7.5	20% of	total cover:	3	<u> </u>
Herb Stratum (Plot size: 5 )				1 Indicators of hydric coil and watland hydrology must
1 Arundinaria gigantea	10	Yes	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Smilax rotundifolia	5	Yes	FAC	Definitions of Four Vegetation Strata:
3. Ilex opaca		Yes	FAC	Definitions of Four Vegetation Strata.
3. IIEX Opaca		163	170	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9.				of size, and woody plants less than 3.28 ft tall.
10.				
11				<b>Woody vine</b> – All woody vines greater than 3.28 ft in
11				height.
12				
40		= Total Cov		
50% of total cover:10	20% of	total cover:		
Woody Vine Stratum (Plot size:)				
1				
2				
3.				
4.				
5.				
5	0	T-4-1 O		Hydrophytic Vegetation
50% of total cover: 0		= Total Cov		Present? Yes No
30 % of total cover		total cover:		
Remarks: (If observed, list morphological adaptations below	w).			

SOIL Sampling Point: wsuc005f\_w

Profile Des	cription: (Describe	to the depth	needed to docur	ment the i	ndicator	or confirm	the absence of	indicators.)			
Depth (in a base)	Matrix			x Feature		1 2	Tautius				
(inches) 0-5	Color (moist) 7.5 YR 2.5/2	<u>%</u> 100	Color (moist)	%	_Type <sup>1</sup>	Loc <sup>2</sup>	Texture SL	Remarks			
-		· —— -									
5-18	2.5 Y 6/1	97 2	2.5 Y 5/6	3	C	PL/M	SL				
-		· <del></del>									
-		· —— -									
	-	· —— -									
<sup>1</sup> Type: C=C	concentration, D=Dep	letion RM=F	Reduced Matrix M	S=Masked	Sand Gr	ains	<sup>2</sup> l ocation: Pl	=Pore Lining, M=Matrix.			
	Indicators: (Application							Problematic Hydric Soils <sup>3</sup> :			
Histoso	I (A1)		Polyvalue Be	low Surfa	ce (S8) <b>(L</b>	.RR S. T. U	) 1 cm Muc	k (A9) <b>(LRR O)</b>			
	pipedon (A2)		Thin Dark Su					k (A10) <b>(LRR S)</b>			
	istic (A3)		Loamy Muck					Vertic (F18) (outside MLRA 150A,B)			
Hydrog	en Sulfide (A4)		Loamy Gleye	ed Matrix (	F2)		Piedmont	Floodplain Soils (F19) (LRR P, S, T)			
	d Layers (A5)		Depleted Ma	, ,				is Bright Loamy Soils (F20)			
_	Bodies (A6) (LRR P		Redox Dark	•	,		(MLRA				
	ucky Mineral (A7) (LF		Depleted Da					nt Material (TF2)			
	resence (A8) (LRR U	)	Redox Depre		8)			low Dark Surface (TF12)			
	uck (A9) <b>(LRR P, T)</b> d Below Dark Surface	o (A11)	Marl (F10) <b>(L</b> Depleted Oc		/MIDA 1	F1\	Other (Ex	plain in Remarks)			
	ark Surface (A12)	C (A11)	Iron-Mangan				T) <sup>3</sup> Indicato	rs of hydrophytic vegetation and			
	Prairie Redox (A16) <b>(N</b>	/ILRA 150A)			. , ,		•	d hydrology must be present,			
	Mucky Mineral (S1) (L		Delta Ochric			, -,		disturbed or problematic.			
-	Gleyed Matrix (S4)		Reduced Ve			0A, 150B)		·			
Sandy I	Redox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 149	9A)				
	d Matrix (S6)		Anomalous E	Bright Loar	my Soils (	F20) <b>(MLR</b>	A 149A, 153C, 15	53D)			
	ırface (S7) (LRR P, S						1				
Restrictive	Layer (if observed):										
Type:			<u>—</u>					.1			
Depth (ir	iches):						Hydric Soil Pre	esent? Yes No			
Remarks:											
Hydric soil pr	esent										



Photo 1
Wetland data point WSUC005f\_w facing north



Photo 2
Wetland data point WSUC005f\_w facing south

Project/Site: Atlantic Coast Pipel	ine	City/County: City of Suffolk Sampling Date: 11/16/2015						e: 11/16/2015		
Applicant/Owner: DOMINION		State: VA Sampling Point: W						t: wsuc005s_w		
Investigator(s): Team C										
Landform (hillslope, terrace, etc.)								one (%): 2		
Subregion (LRR or MLRA): T Soil Map Unit Name: Rains fine s	sandy loam	Li	at:		Long:	NWI classific	PSS1/F0	)atum:		
				_				<del></del>		
Are climatic / hydrologic condition										
Are Vegetation, Soil	, or Hydrology	si	gnificantly distur	bed?	Are "Normal	Circumstances"	present? Yes _	No		
Are Vegetation, Soil	, or Hydrology	n	aturally problema	atic? (	If needed, e	explain any answe	ers in Remarks.)			
SUMMARY OF FINDINGS	5 - Attach si	te map s	showing sam	npling poi	nt locatio	ons, transects	s, important	features, etc.		
Hydrophytic Vegetation Present	t? Yes	✓ No	)							
Hydric Soil Present?		✓ No		Is the Samp		., ,				
Wetland Hydrology Present?		✓ No		within a We	etland?	Yes	No			
Remarks:										
Area clear-cut about five years a	igo									
HYDROLOGY										
Wetland Hydrology Indicators	3:					Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of						Surface Soil				
✓ Surface Water (A1)			Fauna (B13)			Sparsely Ve		e Surface (B8)		
High Water Table (A2)			oosits (B15) (LRF			Drainage Pa				
Saturation (A3)							ines (B16)			
Water Marks (B1)			Rhizospheres a		oots (C3)					
Sediment Deposits (B2)			e of Reduced Iro		00)	Crayfish Burrows (C8)				
Drift Deposits (B3)			ron Reduction in	Tillea Solls (	C6)					
Algal Mat or Crust (B4) Iron Deposits (B5)			ck Surface (C7) xplain in Remark	(c)		✓ Geomorphic Position (D2)				
Inundation Visible on Aeria		_ Other (L.	Apiaiii iii Reiliair	(3)		Shallow Aquitard (D3) <u>✓</u> FAC-Neutral Test (D5)				
Water-Stained Leaves (B9)					Sphagnum moss (D8) (LRR T, U)					
Field Observations:								, -,		
Surface Water Present?	Yes _ 🗸 No _	Dep	th (inches): 2							
	Yes No									
	Yes No				Wetland F	lydrology Presei	nt? Yes	No		
(includes capillary fringe)					:\	ilahla.				
Describe Recorded Data (streat Spring peepers and other frogs peepers)		ring weii, a	eriai pnotos, pre	evious inspect	ions), if ava	illable:				
Remarks:										
Wetland hydrology indicators pro	esent									
3,7 1 13,7										

20	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:)	% Cover	Species?	Status	Number of Dominant Species _
1				That Are OBL, FACW, or FAC:5 (A)
2				Total Number of Dominant
3				Species Across All Strata: 5 (B)
4.				
5.				Percent of Dominant Species That Are OBL FACIN or FAC: 100 (A/B)
				That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8				OBL species x 1 = 20
0	0	= Total Cov		25 70
50% of total cover:0	20% of	total cover:	0	FACW species x 2 = 70 315
Sapling/Shrub Stratum (Plot size: 15 )				FAC species $\frac{100}{0}$ x 3 = $\frac{313}{0}$
1. Pinus taeda	70	Yes	FAC	FACU species x 4 =
Magnolia virginiana	20	Yes	FACW	UPL species x 5 =
				Column Totals:(A)(B)
3				
4				Prevalence Index = B/A =2.53
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				✓ 2 - Dominance Test is >50%
8				✓ 3 - Prevalence Index is ≤3.0 <sup>1</sup>
	90	= Total Cov	er	
50% of total cover: 45		total cover:	40	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
-	20 /0 01	total cover.		
Herb Stratum (Plot size:)  Andropogon virginicus	25	Voo	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
		Yes		be present, unless disturbed or problematic.
2. Eleocharis palustris	20	Yes	OBL	Definitions of Four Vegetation Strata:
3. Arundinaria gigantea	15	Yes	FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Smilax rotundifolia	10	No	FAC	more in diameter at breast height (DBH), regardless of
5.				height.
6.				Canling/Church Wasdurplants and discounting visual lass
				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7				than o in. BBH and greater than o.20 it (1 in) tail.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11.				height.
12.				
	70	= Total Cov		
50% of total cover: 35		total cover:		
50 % of total cover.	20% 01	total cover.		
Woody Vine Stratum (Plot size:)				
1				
2				
3				
4.				
5				Hydrophytic
0		= Total Cov		Vegetation Present?  Yes No
50% of total cover:0	20% of	total cover:		resent: resno
Remarks: (If observed, list morphological adaptations below	w).			

SOIL Sampling Point: wsuc005s\_w

Profile Des	cription: (Describe	to the depth	needed to docur	ment the i	ndicator	or confirm	the absence of	indicators.)			
Depth	Matrix			x Features		12	T				
(inches) 0-6	Color (moist) 10 YR 4/1	99	Color (moist) 10 YR 3/6	<u>%</u> 1	Type <sup>1</sup> C	Loc <sup>2</sup>	Texture SL	Remarks			
-				. ——							
6-10	10 YR 4/1	· —— -	10 YR 3/6	3	C	PL	SL				
10-18	2.5 Y 5/1	95 2	2.5 Y 5/6	5	С	PL/M	SL				
				-				_			
-		·									
		· —— -					<u> </u>				
1- 0.0							2, ,, ,,				
	concentration, D=Dep Indicators: (Applic					ains.		=Pore Lining, M=Matrix.  Problematic Hydric Soils <sup>3</sup> :			
Histoso		able to all L	Polyvalue Be		•	DD C T II		k (A9) (LRR O)			
	pipedon (A2)		Thin Dark Su					k (A10) <b>(LRR S)</b>			
	istic (A3)		Loamy Muck					Vertic (F18) (outside MLRA 150A,B)			
Hydroge	en Sulfide (A4)		Loamy Gleye				Piedmont	Floodplain Soils (F19) (LRR P, S, T)			
	d Layers (A5)		Depleted Ma	. ,				s Bright Loamy Soils (F20)			
-	Bodies (A6) (LRR P		Redox Dark	•	,		(MLRA	<b>153B)</b> nt Material (TF2)			
	ucky Mineral (A7) <b>(LF</b> resence (A8) <b>(LRR U</b>		Depleted Date Redox Depre					low Dark Surface (TF12)			
	uck (A9) (LRR P, T)	,	Marl (F10) <b>(L</b>		3)			plain in Remarks)			
	d Below Dark Surfac	e (A11)	Depleted Ocl		(MLRA 1	51)		,			
	ark Surface (A12)		Iron-Mangan		. , .		•	rs of hydrophytic vegetation and			
	Prairie Redox (A16) (I					, U)		d hydrology must be present,			
-	Mucky Mineral (S1) <b>(I</b> Gleyed Matrix (S4)	-RR O, S)	Delta Ochric Reduced Ver			0Δ 150R)	uniess	disturbed or problematic.			
	Redox (S5)		Reduced Ver				9A)				
-	d Matrix (S6)						A 149A, 153C, 15	53D)			
Dark Su	urface (S7) (LRR P, S	s, T, U)									
Restrictive	Layer (if observed):										
Type:			<u>—</u>					.,			
	iches):		<u> </u>				Hydric Soil Pre	esent? Yes No			
Remarks:											
Hydric soil in	dicators present										



Photo 1 Wetland data point WSUC005s\_w facing north



Photo 2
Wetland data point WSUC005s\_w facing south

Project/Site: Atlantic Coast Pipeline		City/C	ounty: City of Suffolk		Sampling Date: 11/17/2015			
Applicant/Owner: DOMINION		City/County: City of Suffolk Sampling Date: 11/17/2015  State: VA Sampling Point: wsuc005_u						
Investigator(s): Team C		Section, Township, Range: No PLSS in this area						
Landform (hillslope, terrace, etc.): Slig					Slope (%): 2			
					Datum: WGS 198			
Soil Map Unit Name: Rains fine sandy			Long					
·		tion f 0 . V						
Are climatic / hydrologic conditions on								
Are Vegetation, Soil, c								
Are Vegetation, Soil, c	or Hydrologyna	turally problema	atic? (If needed, e	explain any answe	ers in Remarks.)			
SUMMARY OF FINDINGS -	Attach site map s	howing sam	pling point location	ons, transects	s, important features, etc			
Lludronhutia Vagatatian Bracant?	Vac No	<i>y</i>						
Hydrophytic Vegetation Present? Hydric Soil Present?	Yes No Yes No		Is the Sampled Area		,			
Wetland Hydrology Present?	Yes No	<u> </u>	within a Wetland?	Yes	No			
Remarks:								
Data point within a fallowed field.								
HYDROLOGY								
Wetland Hydrology Indicators:				Secondary Indica	ators (minimum of two required)			
Primary Indicators (minimum of one	is required; check all th	at apply)		Surface Soil	Cracks (B6)			
Surface Water (A1)	Aquatic F	auna (B13)		Sparsely Ve	egetated Concave Surface (B8)			
High Water Table (A2)	Marl Dep	osits (B15) <b>(LRF</b>	R U)	Drainage Pa	atterns (B10)			
Saturation (A3)	Hydroger	Sulfide Odor (0	C1)	Moss Trim L	ines (B16)			
Water Marks (B1)	Oxidized	Rhizospheres a	long Living Roots (C3)	B) Dry-Season Water Table (C2)				
Sediment Deposits (B2)	Presence	n (C4)	Crayfish Burrows (C8)					
Drift Deposits (B3)	Recent In	on Reduction in	Tilled Soils (C6)					
Algal Mat or Crust (B4)	Thin Muc	k Surface (C7)		Geomorphic Position (D2)				
Iron Deposits (B5)	Other (Ex	plain in Remark	s)	Shallow Aquitard (D3)				
Inundation Visible on Aerial Ima	gery (B7)			FAC-Neutra	l Test (D5)			
Water-Stained Leaves (B9)				Sphagnum r	moss (D8) (LRR T, U)			
Field Observations:								
	No 🖍 Dept							
	No 🖍 Dept							
	No 🖍 Dept	h (inches):	Wetland I	Hydrology Prese	nt? Yes No			
(includes capillary fringe)  Describe Recorded Data (stream ga	uge, monitoring well, a	erial photos, pre	l vious inspections), if ava	ailable:				
, ,		, ,	, ,,					
Remarks:								
No wetland hydrology indicators pres	sent							

20	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:) 1		Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:1 (A)
2.				
3.				Total Number of Dominant Species Across All Strata: 2 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 50 (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8	<del></del> 0			OBL species0 x 1 =0
0		= Total Cov		FACW species 0 x 2 = 0
50% of total cover:0	20% of	total cover:		FAC species 70 x 3 = 210
Sapling/Shrub Stratum (Plot size:)				FACU species 30 x 4 = 120
1				0 0
2				UPL species $0 \times 5 = 0$
3				Column Totals: (A) (B)
4				Prevalence Index = B/A =3.3
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 <sup>1</sup>
		= Total Cov	er	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
50% of total cover:0	20% of	total cover:	0	
Herb Stratum (Plot size: 5				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1. Panicum virgatum	70	Yes	FAC	be present, unless disturbed or problematic.
2. Trifolium pratense	25	Yes	FACU	Definitions of Four Vegetation Strata:
3. Plantago lanceolata	5	No	FACU	Tree Meady plants avaluation visco 2 in (7.0 am) an
4				<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5.				height.
6.				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				
9				<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10.				
4.4				<b>Woody vine</b> – All woody vines greater than 3.28 ft in
				height.
12	100	= Total Cov		
50% of total cover: 50		total cover:		
50 % Of total cover.	20% 01	total cover:		
Woody Vine Stratum (Plot size: 30 )				
1				
2				
3				
4				
5				Hydrophytic
0		= Total Cov		Vegetation Present?  Yes No
50% of total cover:0		total cover:		
Remarks: (If observed, list morphological adaptations belo	w).			

SOIL Sampling Point: wsuc005\_u

	cription: (Describe t	o the depth				or confirm	the absence of i	ndicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Feature %	s Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-18	10 YR 3/1	100					LS	
18-22	2.5 Y 6/3	97 2	2.5 Y 6/8	3			SL -	
				- —				
			-	-				
				-				
				-				
	oncentration, D=Depl					ains.		=Pore Lining, M=Matrix.
-	Indicators: (Applica	able to all L						Problematic Hydric Soils <sup>3</sup> :
Histosol	• •		Polyvalue Be					
	pipedon (A2)		Thin Dark Su Loamy Muck					( (A10) <b>(LRR S)</b> /ertic (F18) <b>(outside MLRA 150A,B</b>
	istic (A3) en Sulfide (A4)		Loamy Gleye	-		( 0)		Floodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)		Depleted Mar		.1 2)			s Bright Loamy Soils (F20)
	Bodies (A6) (LRR P,	T, U)	Redox Dark		<del>-</del> 6)		(MLRA 1	
_	ucky Mineral (A7) (LR		Depleted Dar					nt Material (TF2)
Muck Pi	resence (A8) (LRR U)	)	Redox Depre		8)		Very Shall	ow Dark Surface (TF12)
	uck (A9) (LRR P, T)		Marl (F10) <b>(L</b>				Other (Exp	olain in Remarks)
	d Below Dark Surface	e (A11)	Depleted Och				<b></b>	
	ark Surface (A12)	U D A 450A)	Iron-Mangan					s of hydrophytic vegetation and
	rairie Redox (A16) <b>(N</b> ⁄lucky Mineral (S1) <b>(L</b>		<ul><li>Umbric Surfa</li><li>Delta Ochric</li></ul>			, 0)		I hydrology must be present, disturbed or problematic.
	Gleyed Matrix (S4)	.KK 0, 3)	Reduced Ver			ΩΔ 150R)	uness	disturbed or problematic.
	Redox (S5)		Piedmont Flo				9A)	
-	Matrix (S6)						A 149A, 153C, 15	3D)
	rface (S7) (LRR P, S	, T, U)				, ,		·
Restrictive	Layer (if observed):							
Type:								
Depth (in	ches):						Hydric Soil Pre	esent? Yes No
Remarks:							l	
No hydric soi	I indicators present							
, ,	, p							
İ								
İ								



Photo 1 Upland data point WSUC005\_u facing east



Photo 2 Upland data point WSUC005\_u facing west

Project/Site: Atlantic Coast Pipeline	City/County: City of Suffolk Sampling Date: 11/17/2015								
Applicant/Owner: DOMINION	City/County: City of Suffolk Sampling Date: 11/17/2015 State: VA Sampling Point: wsuc006e_v								
	Section, Townsh								
Landform (hillslope, terrace, etc.): slight slope									
Subregion (LRR or MLRA): T									
Soil Map Unit Name: Lynchburg fine sandy loam	_	NWI classif							
Are climatic / hydrologic conditions on the site typical for the									
Are Vegetation, Soil, or Hydrology	significantly disturbed?	Are "Normal Circumstances"	present? Yes No						
Are Vegetation, Soil, or Hydrology	naturally problematic?	(If needed, explain any answ	rers in Remarks.)						
SUMMARY OF FINDINGS - Attach site map	showing sampling po	oint locations, transect	s, important features, etc.						
Hydrophytic Vegetation Present? Yes	No								
Hydric Soil Present? Yes	No V	mpled Area							
Wetland Hydrology Present? Yes		Wetland? Yes	No						
Remarks:									
datapoint is located within a maintained powerline right of	datapoint is located within a maintained powerline right of way. Vegetation and soils were disturbed.								
HYDROLOGY									
Wetland Hydrology Indicators:		Secondary India	cators (minimum of two required)						
Primary Indicators (minimum of one is required; check al	l that apply)	Surface So	il Cracks (B6)						
Surface Water (A1) Aquati	ic Fauna (B13)	Sparsely V	egetated Concave Surface (B8)						
High Water Table (A2) Marl D	Deposits (B15) (LRR U)	Drainage P	atterns (B10)						
	gen Sulfide Odor (C1)	Moss Trim	Lines (B16)						
	ed Rhizospheres along Living	1 1							
	nce of Reduced Iron (C4)	Crayfish Burrows (C8)							
	t Iron Reduction in Tilled Soils	· · · · · · · · · · · · · · · · · · ·							
	Muck Surface (C7)	Geomorphic Position (D2)							
	(Explain in Remarks)	Shallow Aquitard (D3)							
Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)		FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U)							
Field Observations:		Spriagrium	111035 (D0) (LKK 1, 0)						
Surface Water Present? Yes No D	enth (inches):								
Water Table Present? Yes No D									
Saturation Present? Yes V No D	lenth (inches): 10	Wetland Hydrology Prese	ent? Yes 🗸 No						
(includes capillary fringe)			165 <u></u> 165 <u></u>						
Describe Recorded Data (stream gauge, monitoring well	, aerial photos, previous inspe	ections), if available:							
Remarks: Wetland hydrology indicators present									
wettarid hydrology indicators present									

20	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 2 (A)
2				Total Number of Descinant
3				Total Number of Dominant Species Across All Strata:  2 (B)
4.				( <i>b</i> )
				Percent of Dominant Species That Are ORL FACW or FAC: 100 (A/R)
5				That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7				
8				
	0	= Total Cove	er	OBL species X1 = 0
50% of total cover:0	20% of	total cover:	0	FACW species x 2 =
	2070 01	total cover.		FAC species120 x 3 =360
				FACU species25 x 4 =100
1				UPL species0 x 5 =0
2				150 465
3				Column Totals:(A)(B)
4				Prevalence Index = B/A =3.1
5				1 Tevalence index Birt
				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 <sup>1</sup>
	0	= Total Cove	er	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
50% of total cover:0	20% of	total cover:	0	
Herb Stratum (Plot size:5				1
1 Panicum virgatum	70	Yes	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
"				
2. Andropogon virginicus	50	Yes	FAC	Definitions of Four Vegetation Strata:
3. Erigeron canadensis	15	<u>No</u>	FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Sorghastrum nutans	10	No	FACU	more in diameter at breast height (DBH), regardless of
Rhynchospora cephalantha	5	No	OBL	height.
6				October 10 bank Was downlands and ballion size a last
6				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7				than 3 in. DBH and greater than 3.20 it (1 in) tail.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Weedy vine All woody vines greater than 2.29 ft in
11.				<b>Woody vine</b> – All woody vines greater than 3.28 ft in height.
12.				Holghi.
12	150			
75		= Total Cove	~~	
50% of total cover:75	20% of	total cover:	30	
Woody Vine Stratum (Plot size:)				
1				
2				
3				
4				
5				Hydrophytic
	0	= Total Cove	er	Vegetation
50% of total cover: 0	20% of	total cover:	0	Present? Yes No
Remarks: (If observed, list morphological adaptations below				
Tremains. (ii observed, list morphological adaptations belo	vv ).			

SOIL Sampling Point: wsuc006e\_w

Profile Des	cription: (Describe t	o the dep	th needed to docur	nent the i	ndicator	or confirm	the absence of	indicators	s.)		
Depth	Matrix	. 2									
(inches) 0-6	Color (moist) 10 YR 3/2	<u>%</u> 77	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture SL		Remarks		
			0.5.1/.0/0								
	2.5 Y 6/1	20	2.5 Y 6/8	3	C	PL	SL				
6-18	10 YR 3/2	57					SL				
	2.5 Y 6/1	40	2.5 Y 6/8	3	С	PL	SL				
-	·										
1- 0.0							2,				
	oncentration, D=Depl Indicators: (Application)					ains.	<sup>2</sup> Location: P				
Histoso		abic to all	Polyvalue Be		•	RRSTII			-		
	pipedon (A2)		Thin Dark Su					ck (A3) <b>(L</b> k ck (A10) <b>(L</b> l	•		
	istic (A3)		Loamy Muck						8) (outside	MLRA 15	0A,B)
	en Sulfide (A4)		Loamy Gleye						n Soils (F19		S, T)
	d Layers (A5)		Depleted Ma	. ,				-	oamy Soils	(F20)	
-	Bodies (A6) (LRR P,		Redox Dark					<b>\ 153B)</b> ent Material	L (TEO)		
	ucky Mineral (A7) <b>(LR</b> resence (A8) <b>(LRR U</b> )		Depleted Da Redox Depre						i (1F2) Surface (TF	12)	
	uck (A9) (LRR P, T)	,	Marl (F10) <b>(L</b>		0)					12)	
1 cm Muck (A9) (LRR P, T) Marl (F10) (LRR U) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151)											
	ark Surface (A12)		Iron-Mangan						ophytic vege		t
	rairie Redox (A16) (N					, U)			gy must be p		
-	Mucky Mineral (S1) <b>(L</b> Gleyed Matrix (S4)	.RR (), (S)	Delta Ochric Reduced Ve			0A 150B)	unies	s disturbed	or problema	atic.	
	Redox (S5)		Piedmont Flo				9Δ)				
-	Matrix (S6)		Anomalous E					53D)			
	ırface (S7) <b>(LRR P, S</b>	, T, U)	<del></del>	J	, ,	, ,		•			
Restrictive	Layer (if observed):										
Type:											
Depth (in	ches):		<u></u>				Hydric Soil P	resent?	Yes	_ No _ <u> </u>	_
Remarks:							•				
Wetland soil	is disturbed due to po	werline co	nstruction.								



Photo 1 Wetland data point WSUC006e\_w facing west



Photo 2
Wetland data point WSUC006e\_w facing east

Project/Site: Atlantic Coast Pipeline	City/County:	City of Suffolk	Sampling Date: 11/17/2015				
Applicant/Owner: DOMINION	City/County: City of Suffolk Sampling Date: 11/17/2015 State: VA Sampling Point: wsuc006f_w						
• • • • • • • • • • • • • • • • • • • •	Section, Township, Range: No PLSS in this area						
Landform (hillslope, terrace, etc.): Depression							
Subregion (LRR or MLRA): T	26667510615	Long: -76.760	13282 Datum: WGS 1984				
Soil Map Unit Name: Lynchburg fine sandy loam	_ Lai	Long	WI classification: PFO4A				
Are climatic / hydrologic conditions on the site typical for							
Are Vegetation, Soil, or Hydrology							
Are Vegetation, Soil, or Hydrology	_ naturally problematic?	(If needed, explain	any answers in Remarks.)				
SUMMARY OF FINDINGS – Attach site ma	p showing sampling	g point locations, to	ransects, important features, etc.				
Hydrophytic Vegetation Present? Yes	No ls the	. 0					
	No.	e Sampled Area n a Wetland?	Yes No				
Wetland Hydrology Present? Yes <u>✓</u>	No	n a wenanu?	res No				
Remarks:							
Floodplain pool							
HYDROLOGY							
Wetland Hydrology Indicators:		·	Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of one is required; check			urface Soil Cracks (B6)				
	atic Fauna (B13)		parsely Vegetated Concave Surface (B8)				
	Deposits (B15) (LRR U)		rainage Patterns (B10) loss Trim Lines (B16)				
	✓ Saturation (A3) Hydrogen Sulfide Odor (C1) ✓ Water Marks (B1) ✓ Oxidized Rhizospheres along Living Roots (C3)						
	ence of Reduced Iron (C4)		) Dry-Season Water Table (C2) Crayfish Burrows (C8)				
	ent Iron Reduction in Tilled		Claylish Burlows (Co) Saturation Visible on Aerial Imagery (C9)				
	Muck Surface (C7)		Geomorphic Position (D2)				
	er (Explain in Remarks)		Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7)		<u> </u>	FAC-Neutral Test (D5)				
Water-Stained Leaves (B9)		S <sub>I</sub>	phagnum moss (D8) <b>(LRR T, U)</b>				
Field Observations:							
Surface Water Present? Yes No							
Water Table Present? Yes No							
Saturation Present? Yes No	Depth (inches):	Wetland Hydrolo	ogy Present? Yes No				
Describe Recorded Data (stream gauge, monitoring we	ell, aerial photos, previous i	nspections), if available:					
Remarks:							
Wetland hydrology indicators present							

00	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:)		Species?	Status	Number of Dominant Species _
1. Pinus taeda	60	Yes	FAC	That Are OBL, FACW, or FAC:7 (A)
2. Liquidambar styraciflua	20	Yes	FAC	Total Number of Dominant
3				Species Across All Strata: 7 (B)
4.				(=)
5.				Percent of Dominant Species That Are OBL FACW or FAC: 100
				That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8				OBL species $0 \times 1 = 0$
40	80	= Total Cov		20
50% of total cover: 40	20% of	total cover:	<u>16</u>	FACW species x 2 = 60 360
Sapling/Shrub Stratum (Plot size: 15 )				FAC species $\frac{120}{0}$ x 3 = $\frac{300}{0}$
1. Liquidambar styraciflua	15	Yes	FAC	FACU species x 4 =
Magnolia virginiana	15	Yes	FACW	UPL species x 5 =
3. Acer rubrum	15	Yes	FAC	Column Totals:150
4				Prevalence Index = B/A =2.8
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				✓ 2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 <sup>1</sup>
	45	= Total Cov	er	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 22.5	20% of	total cover:	9	1 Toblematic Trydrophytic Vegetation (Explain)
Herb Stratum (Plot size:5 )				1
1 Arundinaria gigantea	15	Yes	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Smilax rotundifolia	10	Yes		
			FAC	Definitions of Four Vegetation Strata:
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6.				Sapling/Shrub – Woody plants, excluding vines, less
				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7				
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12				
	25	= Total Cov	er	
50% of total cover: 12.5				
Woody Vine Stratum (Plot size: 30 )				
/ / / / / / / / / / / / / / / / / / /				
1				
2				
3				
4				
5				Hydrophytic
		= Total Cov	er	Vegetation
50% of total cover:0				Present? Yes No
		total cover.		
Remarks: (If observed, list morphological adaptations below	W).			

SOIL Sampling Point: wsuc006f\_w

	cription: (Describe	to the depth				or confirm	the absence of	indicators.)
Depth Matrix Color (moist) %		Redox Features  Color (moist) % Type <sup>1</sup> Loc <sup>2</sup>				Texture	Remarks	
0-8	10 YR 3/2		7.5 YR 2.5/3	2	C	PL	SL	remarks
8-18	2.5 Y 5/1	98	10 YR 3/6			PL	SL -	
	2.0 1 0/1		10 11( 0/0					
1			Name and Manager A		0		21	Dans Lining M. Matrix
	Concentration, D=Dep Indicators: (Applic					ains.		=Pore Lining, M=Matrix.  Problematic Hydric Soils <sup>3</sup> :
Histoso		able to all L	Polyvalue Be		•	DD C T II		k (A9) (LRR O)
	pipedon (A2)		Thin Dark S					k (A10) (LRR S)
	listic (A3)		Loamy Muck					Vertic (F18) (outside MLRA 150A,B)
	en Sulfide (A4)		Loamy Gley				Piedmont	Floodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)		✓ Depleted Ma	, ,				s Bright Loamy Soils (F20)
_	Bodies (A6) (LRR P		Redox Dark	•	,		(MLRA	
	ucky Mineral (A7) (LI		Depleted Da					nt Material (TF2)
	resence (A8) (LRR Uuck (A9) (LRR P, T)	))	Redox Depression Marl (F10) (I		3)			low Dark Surface (TF12) plain in Remarks)
	ed Below Dark Surfac	e (A11)	Depleted Oc		(MLRA 1	51)	Other (LX)	Jani III Nemarks)
-	ark Surface (A12)	(, )	Iron-Mangar				T) <sup>3</sup> Indicato	rs of hydrophytic vegetation and
	Prairie Redox (A16) <b>(I</b>	MLRA 150A)					•	d hydrology must be present,
Sandy	Mucky Mineral (S1) (	LRR O, S)	Delta Ochric	(F17) <b>(ML</b>	RA 151)		unless	disturbed or problematic.
	Gleyed Matrix (S4)		Reduced Ve					
-	Redox (S5)		Piedmont Fl					(a.p.)
	d Matrix (S6) urface (S7) <b>(LRR P, \$</b>	. T III	Anomalous I	Bright Loan	ny Soils (	F20) <b>(MLR</b>	A 149A, 153C, 15	(3D)
	Layer (if observed)						1	
Type:	Layer (ii observea)	•						
	nches):		<u>—</u>				Hydric Soil Pre	esent? Yes V No No No
Remarks:			<u> </u>				Trydric 30ii Fre	resNO
	diaatara propont							
nyunc son in	dicators present							



Photo 1
Wetland data point WSUC006f\_w facing west



Photo 2
Wetland data point WSUC006f\_w facing east

Project/Site: Atlantic Coast Pipeline	Cit	y/County: City of Suffolk		Sampling Date: 11/17/2015			
Applicant/Owner: DOMINION	Cit	, ,	State: VA	Sampling Point: wsuc006_u			
Investigator(s): Team C	Se						
Landform (hillslope, terrace, etc.): Slight							
				Datum: WGS 1984			
Soil Map Unit Name: Lynchburg fine sar	Lat ndv loam	Long					
Are climatic / hydrologic conditions on th							
Are Vegetation, Soil, or H							
Are Vegetation, Soil, or h	Hydrology naturally proble	ematic? (If needed, e	explain any answe	ers in Remarks.)			
SUMMARY OF FINDINGS - At	tach site map showing sa	ampling point location	ons, transects	s, important features, etc.			
Lludronhutia Vagatatian Dragant2	Voc. 4/ No.						
Hydrophytic Vegetation Present? Hydric Soil Present?	Yes No Yes No	Is the Sampled Area					
Wetland Hydrology Present?	Yes No	within a Wetland?	Yes	No			
Remarks:							
Data point near an agricultural field.							
HYDROLOGY							
Wetland Hydrology Indicators:			Secondary Indic	ators (minimum of two required)			
Primary Indicators (minimum of one is	required; check all that apply)		Surface Soil Cracks (B6)				
Surface Water (A1)	Aquatic Fauna (B13)		Sparsely Vegetated Concave Surface (B8)				
High Water Table (A2)	Marl Deposits (B15) <b>(L</b>	.RR U)	Drainage Patterns (B10)				
Saturation (A3)	Hydrogen Sulfide Odo	r (C1)	Moss Trim Lines (B16)				
Water Marks (B1)	Oxidized Rhizosphere	s along Living Roots (C3)	ots (C3) Dry-Season Water Table (C2)				
Sediment Deposits (B2)	Presence of Reduced	Iron (C4)	Crayfish Burrows (C8)				
Drift Deposits (B3)	Recent Iron Reduction	in Tilled Soils (C6)	C6) Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)				Position (D2)			
Iron Deposits (B5) Other (Explain in Remarks)			Shallow Aqu	uitard (D3)			
Inundation Visible on Aerial Image	ry (B7)		FAC-Neutra				
Water-Stained Leaves (B9)			Sphagnum	moss (D8) <b>(LRR T, U)</b>			
Field Observations:	,						
	No Depth (inches): _						
Water Table Present? Yes No Depth (inches):							
Saturation Present? Yes No Depth (inches): W (includes capillary fringe)			Wetland Hydrology Present? Yes No				
Describe Recorded Data (stream gaug	e, monitoring well, aerial photos,	orevious inspections), if ava	ailable:				
Remarks:							
No wetland hydrology indicators presen	ıt			ļ.			
				ļ.			
				ļ.			
				ļ.			

20	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:)		Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC:1 (A)
2				Total Number of Dominant
3				Species Across All Strata:1 (B)
4				Percent of Dominant Species
5	-			That Are OBL, FACW, or FAC: 100 (A/B)
6				Prevalence Index worksheet:
7	-			Total % Cover of: Multiply by:
8				OBL species x 1 = 0
0		= Total Cov		FACW species
50% of total cover:0	20% of	total cover:		FAC species75
Sapling/Shrub Stratum (Plot size: 15 )				FACU species 20 x 4 = 80
1				UPL species 0 x 5 = 0
2				Column Totals: 95 (A) 305 (B)
3				Column Totals (A) (B)
4				Prevalence Index = B/A = 3.21
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				✓ 2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 <sup>1</sup>
	0	= Total Cov	_	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
50% of total cover:0	20% of	total cover:		
Herb Stratum (Plot size:5 )				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1. Setaria verticillata	70	Yes	FAC	be present, unless disturbed or problematic.
2. Trifolium pratense	15	No	FACU	Definitions of Four Vegetation Strata:
3. Andropogon virginicus	5	No	FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Plantago lanceolata	5	No	FACU	more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12				
	95	= Total Cov	er	
50% of total cover: 47.5	20% of	total cover:	19	
Woody Vine Stratum (Plot size: 30 )				
1				
2.				
3.				
4				
5.				Lludrombusio
	0	= Total Cov	er	Hydrophytic Vegetation
50% of total cover:		total cover:		Present? Yes No No
Remarks: (If observed, list morphological adaptations belo		total cover.		
remarks. (II observed, list morphological adaptations being	, vv ).			

SOIL Sampling Point: wsuc006\_u

	cription: (Describe t	o the deptr				or confirm	the absence of i	indicators.)	
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Feature %	s Type <sup>1</sup>	Loc²	Texture	Remark	(S
0-18	10 YR 3/1	100					LS		
18-22	2.5 Y 6/3	97 2	2.5 Y 6/8	3			SL -		
	2.0 1 0/0								
				-					
	·			-					
	oncentration, D=Depl					ains.		=Pore Lining, M=Ma	
Hydric Soil	Indicators: (Applica	able to all L	RRs, unless other	rwise not	ed.)		Indicators for	Problematic Hydr	ric Soils³:
Histosol	` '		Polyvalue Be					k (A9) <b>(LRR O)</b>	
	pipedon (A2)		Thin Dark Su					k (A10) <b>(LRR S)</b>	
	istic (A3)		Loamy Muck	-		R O)		Vertic (F18) (outsid	
	en Sulfide (A4) d Layers (A5)		Loamy Gleye		(F2)			Floodplain Soils (F's Bright Loamy Soil	
	Bodies (A6) <b>(LRR P,</b>	T 11)	Depleted Mark S		-6)		Anomalou (MLRA		IS (F20)
	ucky Mineral (A7) <b>(LR</b>		Depleted Dar					nt Material (TF2)	
	resence (A8) (LRR U)		Redox Depre					low Dark Surface (T	Γ <b>F</b> 12)
	uck (A9) <b>(LRR P, T)</b>	,	Marl (F10) <b>(L</b>		-,			olain in Remarks)	,
	d Below Dark Surface	e (A11)	Depleted Oct		(MLRA 1	51)		,	
Thick D	ark Surface (A12)		Iron-Mangan	ese Mass	es (F12) (	LRR O, P,	T) <sup>3</sup> Indicator	rs of hydrophytic ve	egetation and
	rairie Redox (A16) <b>(N</b>					', U)		d hydrology must be	
	Mucky Mineral (S1) (L	RR O, S)	Delta Ochric				unless	disturbed or proble	matic.
	Gleyed Matrix (S4)		Reduced Ver				>		
-	Redox (S5)		Piedmont Flo					(2D)	
	d Matrix (S6) Irface (S7) <b>(LRR P, S</b>	T 11)	Anomaious E	sright Loai	my Solls (	F20) (WILK	A 149A, 153C, 15	(טנט)	
	Layer (if observed):	, 1, 0)							
Type:									
	ches):		<del></del>				Hydric Soil Pre	cont2 Voc	No 🗸
' '	cries).		<del>_</del>				nyuric Son Fre	esent? Yes	
Remarks:									
No hydric soi	I indicators present.								
1									
1									
1									



Photo 1 Upland data point WSUC006\_u facing south



Photo 2
Upland data point WSUC006\_u facing north

## WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Atlantic Coast Pipeline	City/County: City of S	uffolk	Sampling Date: 11/17/2015		
Applicant/Owner: DOMINION	City/County: City of S	State: VA	Sampling Point: wsuc007e_w		
	Section, Township, Ra				
Landform (hillslope, terrace, etc.): Depression					
Subregion (LRR or MLRA): T	Lat: 60.070 10000	Long:	None Datum: WGG 1004		
Soil Map Unit Name: Eunola loamy fine sand, 0 to					
Are climatic / hydrologic conditions on the site typi					
Are Vegetation, Soil, or Hydrology	significantly disturbed? Are	"Normal Circumstances" p	resent? Yes No		
Are Vegetation, Soil, or Hydrology	naturally problematic? (If n	needed, explain any answer	s in Remarks.)		
SUMMARY OF FINDINGS - Attach si	e map showing sampling point	locations, transects	important features, etc.		
Hydrophytic Vegetation Present? Yes _	V No Is the Sample				
	V No				
	No within a Wetla	and? Yes	No		
Remarks:					
Data point within a recently harvested soybean fi					
HYDROLOGY					
Wetland Hydrology Indicators:		<u> </u>	tors (minimum of two required)		
Primary Indicators (minimum of one is required;	* * * * *	Surface Soil (			
	Aquatic Fauna (B13)		Sparsely Vegetated Concave Surface (B8)		
High Water Table (A2)	Marl Deposits (B15) (LRR U)		Drainage Patterns (B10)		
	<ul><li>Hydrogen Sulfide Odor (C1)</li><li>Oxidized Rhizospheres along Living Roof</li></ul>		Moss Trim Lines (B16)		
	Presence of Reduced Iron (C4)	Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8)			
	Recent Iron Reduction in Tilled Soils (C6)	· · · · · · · · · · · · · · · · · · ·	sible on Aerial Imagery (C9)		
	Thin Muck Surface (C7)	Geomorphic			
	Other (Explain in Remarks)	Shallow Aqui			
Inundation Visible on Aerial Imagery (B7)		FAC-Neutral	Test (D5)		
Water-Stained Leaves (B9)		Sphagnum m	oss (D8) <b>(LRR T, U)</b>		
Field Observations:					
	Depth (inches): 4				
Water Table Present? Yes No _	Depth (inches): 0				
	Depth (inches): 0 W	etland Hydrology Presen	t? Yes No		
(includes capillary fringe)  Describe Recorded Data (stream gauge, monito	ing well, aerial photos, previous inspection	ns), if available:			
Remarks:					

20	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC:1 (A)
2				Total Neverbox of Densire and
3				Total Number of Dominant Species Across All Strata:  2 (B)
4.				(b)
				Percent of Dominant Species
5				That Are OBL, FACW, or FAC:50 (A/B)
6				Prevalence Index worksheet:
7				
8				10
	0	= Total Cove	er	OBL species X1 = 10
50% of total cover:0	20% of	total cover	0	FACW species x 2 =
	20 /0 0.	total cover.		FAC species0 x 3 =0
				FACU species0 x 4 =0
1				UPL species 0 x 5 = 0
2				42 74
3				Column Totals: (A) (B)
4				Prevalence Index = B/A =1.76
5				
				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				✓ 3 - Prevalence Index is ≤3.0 <sup>1</sup>
	0	= Total Cove	er	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
50% of total cover:0	20% of	total cover:	0	Troblematic Trydrophytic Vegetation (Explain)
F		total cover.		
Herb Stratum (Plot size:)  1 Glycine max	30	Yes		<sup>1</sup> Indicators of hydric soil and wetland hydrology must
·-				be present, unless disturbed or problematic.
2. Paspalum laeve	25	Yes	FACW	Definitions of Four Vegetation Strata:
3. Persicaria lapathifolia	7	No	FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Eleocharis palustris	5	No	OBL	more in diameter at breast height (DBH), regardless of
Persicaria hydropiper	5	No	OBL	height.
•				
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				<b>Herb</b> – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Manada and a Allera and a discount of the second of the
11.			,	<b>Woody vine</b> – All woody vines greater than 3.28 ft in height.
				neight.
12	72			
20		= Total Cove		
50% of total cover:36	20% of	total cover:	14.4	
Woody Vine Stratum (Plot size:)				
1				
2.				
3				
4				
5				Hydrophytic
	0	= Total Cove	er	Vegetation
50% of total cover:0	20% of	total cover:	0	Present? Yes No
Remarks: (If observed, list morphological adaptations belo				
Tremarks. (II observed, list morphological adaptations belo	vv ).			

SOIL Sampling Point: <u>wsuc007e\_w</u>

	cription: (Describe t	to the depth				or confirm	the absence of	of indicators.)
Depth	Matrix Color (moint)	0/		x Feature	1	1 2	Ta: 4:	Damada
(inches) 0-12	Color (moist) 10 YR 3/2	98 1	Color (moist) 0 YR 3/6	<u>%</u> 2	Type' C	Loc² PL	<u>Texture</u> SL	Remarks
0-12	10 113/2	90 1	0 TR 3/0					
12-18	10 YR 4/2	95 1	0 YR 3/6	2	С	PL	SL	
-	·							_
_								
					· <del></del>			
	· -			-			<del></del>	-
<sup>1</sup> Type: C=C	concentration, D=Depl	etion, RM=R	educed Matrix, MS	S=Masked	d Sand Gr	ains.	<sup>2</sup> Location: F	PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applica	able to all Li	RRs, unless other	wise not	ed.)		Indicators f	or Problematic Hydric Soils <sup>3</sup> :
Histoso	l (A1)		Polyvalue Be	low Surfa	ce (S8) <b>(L</b>	.RR S. T. U	) 1 cm Mu	uck (A9) <b>(LRR O)</b>
· ·	pipedon (A2)		Thin Dark Su					uck (A10) <b>(LRR S)</b>
	listic (A3)		Loamy Mucky					d Vertic (F18) (outside MLRA 150A,B)
	en Sulfide (A4)		Loamy Gleye			-,		nt Floodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)		✓ Depleted Mat		– /			ous Bright Loamy Soils (F20)
	Bodies (A6) (LRR P,	T, U)	Redox Dark S		<del>-</del> 6)			A 153B)
_	ucky Mineral (A7) <b>(LR</b>		Depleted Dar	•	,			rent Material (TF2)
	resence (A8) (LRR U)		Redox Depre		. ,			allow Dark Surface (TF12)
· ——	uck (A9) (LRR P, T)	,	Marl (F10) <b>(L</b>	•	<b>-</b> ,		-	Explain in Remarks)
· ——	ed Below Dark Surface	e (A11)	Depleted Och		(MLRA 1	51)		
-	ark Surface (A12)	( )	Iron-Mangan	, ,		•	T) <sup>3</sup> Indica	itors of hydrophytic vegetation and
	Prairie Redox (A16) (N	ILRA 150A)	-					and hydrology must be present,
	Mucky Mineral (S1) (L		Delta Ochric			, -,		ss disturbed or problematic.
	Gleyed Matrix (S4)	0, 0,	Reduced Ver			OA. 150B)	u	oo alota oo problematio
	Redox (S5)		Piedmont Flo				9A)	
-	d Matrix (S6)						A 149A, 153C,	153D)
	urface (S7) <b>(LRR P, S</b>	. T. U)			, (	0, (	, , , , , , , , , , , , , , , , , , , ,	,
	Layer (if observed):	, -, -,						
Type:								
							United at a Control	
	nches):		<del></del>				Hydric Soil F	Present? Yes No
Remarks:								
Hydric soil pr	resent							
1								



**Photo 1**Wetland data point WSUC007e\_w facing northwest



Photo 2
Wetland datta point WSUC007e\_w facing southwest

## WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Atlantic Coast Pipeline		City/C	County: City of Suffolk		Sampling Date: 11/17/2015
Project/Site: Atlantic Coast Pipeline City/County: City of Suffolk Sampling Date: 11/17/2015  Applicant/Owner: DOMINION State: VA Sampling Point: wsuc007_u					
Investigator(s): Team C Section, Township, Range: No PLSS in this area					
Landform (hillslope, terrace, etc.): Slight slope Local relief (concave, convex, none): none Slope (%): 2					
Subregion (LRR or MLRA): T		1 at: 36.67513056	) Langu	-76.75035204	Glope (70):
Soil Map Unit Name: Eunola loamy fi	ine sand 0 to 2 perc	_ Lat:			
Are climatic / hydrologic conditions or					
Are Vegetation, Soil,	or Hydrology	_ significantly distur	bed? Are "Norma	al Circumstances"	present? Yes No
Are Vegetation, Soil,	or Hydrology	_ naturally problemate	atic? (If needed,	explain any answe	ers in Remarks.)
SUMMARY OF FINDINGS -	Attach site ma	p showing san	npling point locati	ons, transects	s, important features, etc.
Hydrophytic Vegetation Present?	Yes	No			
Hydric Soil Present?	Yes		Is the Sampled Area		•
Wetland Hydrology Present?		No 🔽	within a Wetland?	Yes	No
Remarks:					
Data point within corn field. Area has	been recently harv	rested.			
Western Hydrology Indicators				Cocondon India	ators (minimum of two required)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one	io required; check (	all that apply)		-	ators (minimum of two required)
	-			· · · · · · · · · · · · · · · · · · ·	Cracks (B6)
Surface Water (A1) High Water Table (A2)		tic Fauna (B13) Deposits (B15) <b>(LR</b> I	B III		getated Concave Surface (B8) atterns (B10)
Saturation (A3)		ogen Sulfide Odor (		Moss Trim L	
Water Marks (B1)		-	along Living Roots (C3)		Water Table (C2)
Sediment Deposits (B2)		ence of Reduced Iro		Crayfish Bu	
Drift Deposits (B3)		nt Iron Reduction in			/isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Muck Surface (C7)			Position (D2)
Iron Deposits (B5)	Other	r (Explain in Remarl	(S)	Shallow Aqu	uitard (D3)
Inundation Visible on Aerial Ima	agery (B7)			FAC-Neutra	l Test (D5)
Water-Stained Leaves (B9)				Sphagnum r	moss (D8) <b>(LRR T, U)</b>
Field Observations:	_				
	No [				
	No [				_
	No [	Depth (inches):	Wetland	Hydrology Prese	nt? Yes No
(includes capillary fringe)  Describe Recorded Data (stream ga	auge, monitoring we	ll, aerial photos, pre	evious inspections), if av	ailable:	
Remarks:					
No wetland hydrology indicators pres	sent				
					ļ.
					ļ.

20	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size:)		Species?		Number of Dominant Species That Are OBL, FACW, or FAC:2 (A)	
1				That Ale OBE, I AOW, OF I AO.	
3.				Total Number of Dominant Species Across All Strata:  3 (B)	i
4.					
5				Percent of Dominant Species That Are OBL, FACW, or FAC:  66.6666666 (A/I	B)
6				Prevalence Index worksheet:	
7				Total % Cover of: Multiply by:	
8	0	= Total Cove	or.	OBL species0 x 1 =0	
50% of total cover:0				FACW species5	
Sapling/Shrub Stratum (Plot size: 15 )	20 /0 01	total cover.		FAC species5	
				FACU species5 x 4 =20	
1				UPL species0 x 5 =0	
2				Column Totals:15 (A)45 (B	3)
3				2	
4				Prevalence Index = B/A =3	
5				Hydrophytic Vegetation Indicators:	
6				1 - Rapid Test for Hydrophytic Vegetation	
7				2 - Dominance Test is >50%	
8	^	- Total Cov		3 - Prevalence Index is ≤3.0 <sup>1</sup>	
50% of total cover:		= Total Cove		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
	20% 01	total cover.			
1. Paspalum laeve	5	Yes	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
2. Setaria verticillata	5	Yes	FAC	Definitions of Four Vegetation Strata:	
3. Solanum carolinense	5	Yes	FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm)	or
4				more in diameter at breast height (DBH), regardless of	
5				height.	
6				Sapling/Shrub – Woody plants, excluding vines, less	s
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.	
8				Herb – All herbaceous (non-woody) plants, regardles	20
9				of size, and woody plants less than 3.28 ft tall.	,,,
10				Weeds sine All woods since greater than 2.20 ft in	
11.				<b>Woody vine</b> – All woody vines greater than 3.28 ft in height.	
12.				, and the second	
	15	= Total Cove	er		
50% of total cover:7.5		total cover:	_		
Woody Vine Stratum (Plot size: 30 )					
1					
2.					
3.					
4.					
5.				Hudaanhudia	
		= Total Cove	er	Hydrophytic Vegetation	
50% of total cover:0				Present? Yes No No	
Remarks: (If observed, list morphological adaptations belo					
rtomano. (ii ososivoa, iiot morphological adaptatione solo	•• /-				

SOIL Sampling Point: wsuc007\_u

Profile Des	cription: (Describe t	o the depth	needed to docur	nent the i	indicator	or confirm	the absence of	indicators.)	
Depth	Matrix			x Feature					
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks	
0-18	10 YR 4/4	100					SL		
-				-	· <del></del>				
				-					
					· <del></del>				_
·				-			<del></del>		
<sup>1</sup> Type: C=C	oncentration, D=Depl	etion, RM=Re	educed Matrix, MS	S=Masked	d Sand Gr	ains.	<sup>2</sup> Location: Pl	L=Pore Lining, M=Matrix	ζ.
Hydric Soil	Indicators: (Applica	ible to all LR	Rs, unless other	rwise not	ed.)		Indicators fo	r Problematic Hydric S	ioils³:
Histoso	(A1)		Polyvalue Be	low Surfa	ce (S8) <b>(L</b>	.RR S, T, U	) 1 cm Muc	ck (A9) <b>(LRR O)</b>	
Histic E	pipedon (A2)		Thin Dark Sι	ırface (S9	) (LRR S,	T, U)	2 cm Muc	ck (A10) <b>(LRR S)</b>	
Black H	istic (A3)		Loamy Muck	y Mineral	(F1) <b>(LRF</b>	l O)	Reduced	Vertic (F18) (outside N	ILRA 150A,B)
Hydroge	en Sulfide (A4)		Loamy Gleye	ed Matrix (	(F2)		Piedmont	t Floodplain Soils (F19)	(LRR P, S, T)
Stratifie	d Layers (A5)		Depleted Ma	trix (F3)			Anomalou	us Bright Loamy Soils (F	20)
Organic	Bodies (A6) (LRR P,	T, U)	Redox Dark	Surface (F	<del>-</del> 6)		(MLRA	153B)	
5 cm M	ucky Mineral (A7) <b>(LR</b>	R P, T, U)	Depleted Da	rk Surface	e (F7)			ent Material (TF2)	
	resence (A8) (LRR U)		Redox Depre		8)			llow Dark Surface (TF12	2)
	uck (A9) (LRR P, T)		Marl (F10) <b>(L</b>				Other (Ex	plain in Remarks)	
-	d Below Dark Surface	e (A11)	Depleted Oc						
	ark Surface (A12)		Iron-Mangan					ors of hydrophytic veget	
	rairie Redox (A16) (M					, U)		nd hydrology must be pro	
	Mucky Mineral (S1) (L	KK (), (S)	Delta Ochric			OA 450D\	uniess	s disturbed or problemat	IC.
	Gleyed Matrix (S4)	,	Reduced Ver				24)		
-	Redox (S5) d Matrix (S6)		Piedmont Flo				9A) A 149A, 153C, 1	E3D)	
	irface (S7) <b>(LRR P, S</b>	T II)	Allomaious L	origini Loai	illy Solis (	1 20) (WILK)	4 149A, 133C, 1	330)	
	Layer (if observed):	, 1, 0)							
_	Layer (ii observea).								
Type:	ah a a \.		_				Uhadaia Cail Da		N
	ches):		_				Hydric Soil Pr	esent? Yes	No
Remarks:									
No hydric soi	I indicators present.								



**Photo 1**Upland data point WSUC007\_u facing southeast



Photo 2
Upland data point WSUC007\_u facing northeast

WETLAND DETERMINATION DATA	FORM – Atlantic and Gulf Coastal Plain Region
ACP	City/County: SUFFOIK Sampling Date: 01 14116
Project/Site: NOMINION Applicant/Owner: DOMINION	State: VA Sampling Point: WSuo027f.w
Investigator(s): L. ROPEN, S. TOSEFO	Section, Township, Range:
Landform (hillslope, terrace, etc.): T-10+W00dS	Local relief (concave, convex, none): NONE Slope (%) NIA
Landform (hillslope, terrace, etc.):	6, 67970 Long: 76.73585 Datum: WOSB 4
Subregion (LRR or MLRA): LRRT Lat: 30	
Soil Map Unit Name: Nonsemond loamy	
Are climatic / hydrologic conditions on the site typical for this time of	
Are Vegetation, Scil, or Hydrology significant	
Are Vegetation, Soil, or Hydrology naturally p	oroblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?         Yes         No           Hydric Soil Present?         Yes         No           Wetland Hydrology Present?         Yes         No	Is the Sampled Area within a Wetland? Yes No
Remarks:	
NCWAM: Riverine Swamp Forest	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required, check all that apply	있는 사람들은 보다 보다 가장 있다면 보다는 그리고 있는 것 같아요. 그리고 있는 사람들이 보고 100mm에 가장 100mm에 되었다면 100mm에 되었다면 100mm에 100mm에 100mm에 1
Surface Water (A1) Aquatic Fauna (B	113) Sparsely Vegetated Concave Surface (B8)
X High Water Table (A2) Marl Deposits (B	15) (LRR U) Drainage Patterns (B10)
Saturation (A3) Hydrogen Sulfide	
	theres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Redu	
- The Company of th	가는 하나요요요 전혀 100kg
Algal Mat or Crust (B4) Thin Muck Surfact Iron Deposits (B5) Other (Explain in	50일 등 1일 시간하다 많은 보다는 보다 있다. 나는 10일 시간 사람들은 보고 10일 전략을 받는 경험을 받았다. 10일 전략을 보고 10일 전략을 보고 10일 전략을 보고 10일 전략을 받는 1
Inundation Visible on Aerial Imagery (B7)	X FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	N) A
Surface Water Present? Yes No Depth (inche	95):
Water Table Present? Yes No Depth (inche	as):
Saturation Present? Yes No Depth (inche	es): O Wetland Hydrology Present? Yes No No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial pho	otos, previous inspections), if available:
Remarks:	
portions of wetland	lavoinundatod
For Horis of Welland	i are managrea.
	H.C. S. LINDA (2004) A. STERRIC C. DARWING TO LABOR HAR STEEL STORE AND THE STREET OF THE STREET STREET AND TA

no and			Indicator	Dominance Test worksheet:	
1. TUXO ALUM distichum	% Cover	Species	Status	Number of Dominant Species That Are OBL, FACW, or FAC:	(A)
2				Total Number of Dominant Species Across All Strata:	(B)
4 5				Percent of Dominant Species That Are OBL, FACW, or FAC: 83	(A/B)
6.				Prevalence Index worksheet:	100
7				Total % Cover of: Multiply by:	
8.				OBL species x1 =	
		= Total Co		FACW species x 2 =	
50% of total cover:	20% of	total cove	:_ <u> </u>	FAC species x3 =	
Sapling/Shrub Stratum (Plot size: 30 × 30 +1)	11	11	EAC	FACU species x 4 =	
1. Acer rubrum	10	<u> </u>	TAC		
2.				UPL species x 5 =	0.0000000000000000000000000000000000000
3.				Column Totals: (A)	(B)
4.			STATE OF THE PARTY	Prevalence Index = B/A =	-
5.			-	Hydrophytic Vegetation Indicators:	
6.				1 - Rapid Test for Hydrophytic Vegetation	
7.	-			∠ 2 - Dominance Test is >50%	
8.	10	CONTRACTOR OF THE PARTY OF THE		3 - Prevalence Index is ≤3.01	
		= Total Co		Problematic Hydrophytic Vegetation¹ (Explain	)
50% of total cover:	20% of	total cove			
Herb Stratum (Plot size: 30 X 30 ft) 1. Tax odlum distichum	10	4	OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology m be present, unless disturbed or problematic.	ust
2. Rubus argutas	10	4	FAC	Definitions of Four Vegetation Strata:	H. STEEL
				Tree – Woody plants, excluding vines, 3 in. (7.6 c	m) or
4.	THE RESERVE OF THE	SMARONATOR		more in diameter at breast height (DBH), regardle	ss of
5	Sent metro-service			height.	
TO BEET TO A SECURIC OF THE SECURIT PROPERTY AND ADDRESS OF THE SECURITY ADDRESS O				Sapling/Shrub - Woody plants, excluding vines,	less
6				than 3 in. DBH and greater than 3.28 ft (1 m) tall.	
8.				Herb – All herbaceous (non-woody) plants, regard of size, and woody plants less than 3.28 ft tall.	dless
9.	CANADON SERVICES				
10			TWO THE THE	Woody vine - All woody vines greater than 3.28	ft in
11,		A TABLE SALES		height.	
12	20	2.3707	Table 10 May		
Lr.		= Total Co			
50% of total cover:	20% of	total cove			
Woody Vine Stratum (Plot size: 20) × 30 + 1	20	V	FAC		
1. Smilyx rotungi tolla	-		FICELL		
2 Lonicera japonira	10	7	Fre		
3.					
4					
5				Hydrophytic	
	30	= Total Co	ver	Vegetation Present? Yes X No	
50% of total cover: \	20% of	total cove	r: <u>Q</u>	Present? Tes No	
Remarks: (If observed, list morphological adaptations belo	w).				

Profile Desc	ription: (Describe to the depti	needed to docume	nt the in	dicator	or confirm	the absence	of Indicators.)
Depth	Matrix -		Features 04	Tyme	Loc²	Texture	Remarks
(inches)	Color (moist) %	Color (moist)	10	Type	Loc	Texture	Tromains.
0-10	104R4/290	10 Trend	10	C	1/1		
			tenio -				
	<u> </u>						The state of the s
						-	
¹Type: C=C	oncentration, D=Depletion, RM=I	Reduced Matrix, MS=	Masked	Sand Gr	ains.	<sup>2</sup> Location:	PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applicable to all L	RRs, unless otherw	dse note	d.)		Indicators	for Problematic Hydric Solis <sup>3</sup> :
Histosol		Polyvalue Belo			RR S, T, U		luck (A9) (LRR O)
A harden your actions and	oipedon (A2)	Thin Dark Surf				2 cm N	luck (A10) (LRR S)
Committee of the Commit	stic (A3)	Loamy Mucky			(0)	Reduce	ed Vertic (F18) (outside MLRA 150A,B)
77 (000 to a section of the con-	en Sulfide (A4)	Loamy Gleyed		2)			ont Floodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)	Depleted Matri					RA 153B)
	Bodies (A6) (LRR P, T, U)	Redox Dark St Depleted Dark				CALL STEEL SECTION CONTRACTOR	arent Material (TF2)
The second of th	ucky Mineral (A7) (LRR P, T, U) resence (A8) (LRR U)	Redox Depres					hallow Dark Surface (TF12)
	ick (A9) (LRR P, T)	Marl (F10) (LR					(Explain in Remarks)
	d Below Dark Surface (A11)	Depleted Ochr	ic (F11) (	MLRA 1	51)		
A THE RESERVE AND A SECURIOR OF THE PARTY OF	ark Surface (A12)	Iron-Manganes	se Masse	s (F12) (	LRR O, P,		ators of hydrophytic vegetation and
_ Coast P	rairie Redox (A16) (MLRA 150A	Umbric Surfac			, U)		land hydrology must be present,
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Mucky Mineral (S1) (LRR O, S)	Delta Ochric (F	17) (MLF	RA 151)	0.0 45051	unie	ess disturbed or problematic.
A STANLEY OF THE STAN	Gleyed Matrix (S4)	Reduced Verti				94)	
	Redox (S5)	Anomalous Bri					. 153D)
2004040572424305000	Matrix (S6)	Alomaious Bri	gik Loaii	,, 00,,, (	. 20/ (2		
	Layer (if observed):				THE PARTY AND A		
Type:							
St. St. St. St. St. Market St. St. St. St. St. St. St. St. St. St	ches):					Hydric Soll	Present? Yes No No
Remarks:	uics).	A CONTRACTOR AND A STANLAR CONTRACTOR OF THE				THE SHALL SHE STATE	
Remarks.							



Wetland data point wsuo027f\_w facing north.



Wetland data point wsuo027f\_w facing east.

WEILAND DETERMINATION DATA FOR	RM - Atlantic and Guir Coastal Plain Region
Project/Site:City/	County: Suffulk Sampling Date: 01/14/
Applicant/Owner: DOMINION	State: VA Sampling Point WSu0027e
Investigator(s): L. ROPET, S. LOSEFA Section	ion, Township, Range: NA
Landform (hillstope, terrace, etc.): POWOY I'M ECISPYNENT Loca	al relief (concave, convex, none); NONE Slope (%) NA
Subregion (LRR or MLRA): LRRT Lat: 30.6	0004 long-10-1542   Datum: VV758
Soil Map Unit Name: Levy Silty Clay loan	DC 1/1
Are climatic / hydrologic conditions on the site typical for this time of year?	
Are Vegetation, Soil, or Hydrology significantly dist.	
MARKET STORE STORE FOR A SERVICE STORE STO	
Are Vegetation, Scil, or Hydrology naturally problem	
SUMMARY OF FINDINGS – Attach site map showing sa	mpling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?         Yes         No           Hydric Soil Present?         Yes         No           Wetland Hydrology Present?         Yes         No	Is the Sampled Area within a Wetland? Yes No
Pisturbed regetation and so	MI, POWERTINE COLEMON.
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) — Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)  — Marl Deposits (B15) (LF	
Saturation (A3) Hydrogen Sulfide Odor	along Living Roots (C3) Dry-Season Water Table (C2)
✓ Water Marks (B1)     ✓ Oxidized Rhizospheres     ✓ Presence of Reduced Ir	(mais cade) 및 문화를 들어 및 가격 등이 사용하다. 나를 하는 것은 4시간에 발표하게 되었다면 하는데 그렇게 되었다면 생각이 되었다면 하는데 하는데 하는데 되었다.
Drift Deposits (B3) Recent Iron Reduction i	n Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface (C7)	
Iron Deposits (B5) Other (Explain in Rema	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
∠ Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations: Surface Water Present?  Yes No Depth (inches): 2	
[ - 12 - 12 - 12 - 12 - 12 - 12 - 12 - 1	Ô .
Saturation Present? Yes V No Depth (inches):	Wetland Hydrology Present? Yes X No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, principles of the provided part of the provided part of the provided provid	revious inspections), if available:
Remarks:	

DOMINEL	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 30X307+	% Cover	Species	2 Status	Number of Dominant Species That Are OBL FACW of FAC:  (A)	89
1. none				That Are OBL, FACW, or FAC: (A)	
2.				Total Number of Dominant	
3.				Species Across All Strata:	
4.				Percent of Dominant Species (27	
5.				Percent of Dominant Species That Are OBL, FACW, or FAC:  (A/B)	)
6.					9
7.				Prevalence Index worksheet:	
SEAN AND HELD FOR SELECTION WHEN A LIBERT BY BY BURNEYS HELD SELECTION FOR A PROBLEM SELECTION OF THE SELECT	3.0000000000000000000000000000000000000	Wallet B		Total % Cover of: Multiply by:	
8.	0	= Total Co	105	OBL species x 1 =	
				FACW species x 2 =	
50% of total cover	20% of	total cove	-	FAC species x 3 =	
Sapling/Shrub Stratum (Plot size: 30)				FACU species x 4 =	
1. None				UPL species x 5 =	
2	V			Column Totals: (A) (B)	
3.				Column Totals (7)	
4.				Prevalence Index = B/A =	
5.				Hydrophytic Vegetation Indicators:	
6.				1 - Rapid Test for Hydrophytic Vegetation	
7.				∠ 2 - Dominance Test is >50%	
8.				3 - Prevalence Index is ≤3.01	
	10:	= Total Co	ver	Problematic Hydrophytic Vegetation¹ (Explain)	
50% of total cover:	20% of	total cove		Problematic Hydrophytic Vegetation (Explain)	
Herb Stratum (Pict size: 30 × 30 + 1)	207001	total cove		It is a second of the second o	
1 Dichanthelium acuminatum	40	V	FA	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
2. Typha latifolia	16	V	081	Definitions of Four Vegetation Strata:	1963
2. Typna latitolia	_10_		O for Serve		
3.				Tree - Woody plants, excluding vines, 3 in. (7.6 cm) of	r
4.				more in diameter at breast height (DBH), regardless of height.	1
5.					
6.				Sapling/Shrub - Woody plants, excluding vines, less	
7.				than 3 in. DBH and greater than 3.28 ft (1 m) tall.	
8.				Herb - All herbaceous (non-woody) plants, regardless	s
9.				of size, and woody plants less than 3.28 ft tall.	
10				Woody vine - All woody vines greater than 3.28 ft in	
11.				height.	
12.					
	40	= Total Co	Mer		
50% of total cover: 2	20% of	total cove	- 8		
Woody Vine Stratum (Plot size: 30 x 30f 1)	20,000	total cove			
	5	Y	FACU		
1. Lonicera japonica		-			
2.					
3.					
4.	-				
5				Hydrophytic	
	5	= Total Co	ver	Vegetation Present? Yes No	
50% of total cover: 2 * 1	5 20% of	total cove	r	Present? Yes No No	
Remarks: (If observed, list morphological adaptations bel	ow).	773,86833	e de la company		
					WIA

Profile Description: (Describe to the depti	needed to docum	ent the Ind	licator	or confirm	the absence o	findicators.)
Depth Matrix	Redox Features				Texture	Remarks
(inches) Color (moist) %	Color (moist)	-%-	Type'	Loc*	Texture	Homani
0-50 10 1K-111 010	WYR 4 7			101		
	- 1 111-11-11				21 ocation: I	PL=Pore Lining, M=Matrix.
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=I Hydric Soil Indicators: (Applicable to all L	RRs unless other	wise noted	and Gra	ams.	Indicators f	or Problematic Hydric Soils <sup>3</sup> :
	Polyvalue Bel			RR S. T. U		uck (A9) (LRR O)
Histosol (A1) Histic Epipedon (A2)	Thin Dark Sur				2 cm Mu	uck (A10) (LRR S)
Black Histic (A3)	Loamy Mucky				Reduce	d Vertic (F18) (outside MLRA 150A,B)
Hydrogen Sulfide (A4)	Loamy Gleye		!)			nt Floodplain Soils (F19) (LRR P, S, T)
Stratified Layers (A5)	X Depleted Mat					ous Bright Loamy Soils (F20) A 153B)
Organic Bodies (A6) (LRR P, T, U)	Redox Dark S Depleted Dar					rent Material (TF2)
5 cm Mucky Mineral (A7) (LRR P, T, U) Muck Presence (A8) (LRR U)	Redox Depre					nallow Dark Surface (TF12)
1 cm Muck (A9) (LRR P, T)	Marl (F10) (L				Other (E	Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Och					
Thick Dark Surface (A12)	Iron-Mangane				T) Indica	ators of hydrophytic vegetation and and hydrology must be present,
Coast Prairie Redox (A16) (MLRA 150A     Sandy Mucky Mineral (S1) (LRR O, S)	Umbric Surfa Delta Ochric			, 0)		ss disturbed or problematic.
Sandy Gleyed Matrix (S4)	Reduced Ver	tic (F18) (M	LRA 15	OA, 150B)		
Sandy Redox (S5)	Piedmont Flo	odplain Soil	s (F19)	(MLRA 145		
Stripped Matrix (S6)	Anomalous B	right Loamy	Soils (	F20) (MLR/	A 149A, 153C,	153D)
Dark Surface (S7) (LRR P, S, T, U)						
Restrictive Layer (if observed):						
Type:					Hydric Soll I	Present? Yes X No
Depth (inches):					Hydno com	
Remarks:						



Wetland data point wsuo027e\_w facing west.



Wetland data point wsuo027e\_w facing east.

#### WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region City/County: Suffolk Sampling Date: 01 14 16 State: VA Sampling Point: W540027-4 Project/Site: ACP Applicant/Owner: DOMINION Investigator(s): L. ROPER, S. Iocefa Section, Township, Range: N/A Landform (hillslope, terrace, etc.): FIATWOODS Local relief (concave, convex, none): None Slope (%): O Lat: 36.67969 Long: -76.73592 Subregion (LRR or MLRA): LRRT Soil Map Unit Name: Nansemon & NWI classification: Are climatic / hydrologic conditions on the site typical for this time of year? Yes No \_\_\_\_\_ (If no, explain in Remarks.) Are Vegetation X, Soil X, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes \_\_\_\_\_ No \_\_ Is the Sampled Area Hydric Soil Present? Yes \_\_\_\_\_ No \_\_ within a Wetland? Wetland Hydrology Present? mowed roadside shoulder HYDROLOGY Secondary Indicators (minimum of two required) Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Aquatic Fauna (B13) Sparsely Vegetated Concave Surface (B8) Surface Water (A1) Drainage Patterns (B10) High Water Table (A2) Marl Deposits (B15) (LRR U) ☐ Hydrogen Sulfide Odor (C1) Moss Trim Lines (B16) Saturation (A3) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Water Marks (B1) Presence of Reduced Iron (C4) Sediment Deposits (B2) Crayfish Burrows (C8) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Thin Muck Surface (C7) Geomorphic Position (D2) Algal Mat or Crust (B4) Other (Explain in Remarks) Shallow Aquitard (D3) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U) Water-Stained Leaves (B9) Field Observations: Depth (inches): \_ Surface Water Present? Depth (inches): Water Table Present? No \_\_\_\_ Depth (inches): \_ > 10 Wetland Hydrology Present? Yes Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: \* Restrictive concrete layer at 10 inches.

no evidence surface hydrology indicators

US Army Corps of Engineers

10.0	Absolute	Dominant	Indicator	Dominance Test workshoot:
Tree Stratum (Plot size: 30 x 10 ft)	Absolute % Cover			Dominance Test worksheet:
10000			Control of the second s	Number of Dominant Species 2
1. none				That Are OBL, FACW, or FAC: (A)
2.				Total Number of Dominant 3
3				Species Across All Strata: (B)
4.				
100 Ph. 200 ph. 100 ph				Percent of Dominant Species 67
5				That Are OBL, FACW, or FAC: (A/B)
6				
7				Prevalence Index worksheet:
\$1000000000000000000000000000000000000	F7483457475			Total % Cover of: Multiply by:
8				OBL species x 1 =
		Total Cov	er	Control to the Application College and the Col
50% of total cover:	20% of t	otal cover		FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30 / 10 Ft)				FAC species x 3 =
Saping/Shrub Stratum (Plot size: Saping/Shrub Stratum)				FACU species x 4 =
1. None				
2.				UPL species x 5 =
<ul> <li>Supplies the property of the prop</li></ul>				Column Totals: (A) (B)
3				
4.				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6.				
CAN TO MINE THE TOTAL OF BRIDGE CONTROL OF THE PROPERTY OF THE				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.01
	=	Total Cov	er	
F00/ -f1-1-1				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
50% of total cover:	20% of t	otal cover	0.00	
Herb Stratum (Plot size: 30 × 10 Ft)	10	V		<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1. Grass sp. (mowed)	10	1	UNK	be present, unless disturbed or problematic.
2. Toxicodendron radicans	30	Y	FAC	Definitions of Four Vegetation Strata:
		and the second second	Commission of the Commission o	Definitions of Four Vegetation Strata.
3				Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
				height.
5				
6				Sapling/Shrub – Woody plants, excluding vines, less
7.				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				
8				Herb – All herbaceous (non-woody) plants, regardless
9.				of size, and woody plants less than 3.28 ft tall.
10.				Woody vine - All woody vines greater than 3.28 ft in
11.				height.
			7	110.911
12.	10			
	40 =	Total Cov	er a	
50% of total cover: 20	20% of t	otal cover		
Woody Vine Stratum (Plot size: 30 X 10 ft				
Cook C (Cook Cook Cook)	5	V	FAC	
1. Smilax notunditolia			1110	
2.				
3				
		United Services	AND THE REAL PROPERTY.	
4				
5				Hydrophytic
	9 =	Total Cov	er	Vegetation
50% of total cover: 2.1				Present? Yes No
	the probability of the	otal cover		
Remarks: (If observed, list morphological adaptations beli	ow).			
in I dinad and : 1				
mountained roadsid	0			
intolity indirection is a self of	C.			
1001000 23 002 22	- 1	1.00	6/0	
moved of vasses are	unide	nTitio	-DIE	
1.000				

Profile Descrip	otion: (Describe	to the depth n	eeded to docu	ment the i	ndicator	or confirm	n the absence of indicators.)	
Depth _	Matrix			x Features				
(inches)	Color (moist)	100	Color (moist)	%	Type'	_Loc²	Lodiny-Sand	narks
0-10	10411712	100					bully-sand	
ELEVATION .								
¹Tuna: C=Can	centration, D=Dep	letion PM-Po	duced Matrix M	S-Masked	Sand Gr		<sup>2</sup> Location: PL=Pore Lining, M	1=Matrix
	dicators: (Applic					anis.	Indicators for Problematic F	
Histosol (A		ſ	Polyvalue Be			RR S, T, L		
Histic Epip		į	Thin Dark St				2 cm Muck (A10) (LRR S	
Black Histi		Į	Loamy Muck			0)	Reduced Vertic (F18) (ou	
	Sulfide (A4)	+	Loamy Gley		F2)		Piedmont Floodplain Soil:	
Stratified L.	ayers (A5) odies (A6) (LRR P	T III 1	Depleted Ma Redox Dark	Charles and Alberta Control	6)		Anomalous Bright Loamy (MLRA 153B)	Solis (FZU)
The second second second second	y Mineral (A7) (LF	A SAN ASSAULT AND A SAN ASSAULT AND ASSAULT	Depleted Da				Red Parent Material (TF2	)
	ence (A8) (LRR U	TO THE REAL PROPERTY OF THE PARTY Redox Depre				Very Shallow Dark Surface	ce (TF12)	
	(A9) (LRR P, T)		Marl (F10) (L				Other (Explain in Remark	s)
The state of the s	Selow Dark Surfac	e (A11) I	Depleted Oc				T) <sup>3</sup> Indicators of hydrophyti	a vagatation and
The state of the s	Surface (A12) rie Redox (A16) (N	MLRA 150A)	Iron-Mangar Umbric Surfa				wetland hydrology mu	
The same of the sa	cky Mineral (S1) (I	Control of the Contro	Delta Ochric			,	unless disturbed or pro	
Sandy Gle	yed Matrix (S4)	Ī	Reduced Ve	rtic (F18) (I	MLRA 15			
Sandy Red		+	Piedmont Flo				1800 1886 (T. 480 2018) B. Caralle La L'ISBN 1886 (B. 1800) B. Caralle L. Caralle L. Caralle L. Caralle L. Car	
Stripped M	atrix (S6) ce (S7) (LRR P, S	T III	Anomalous E	Bright Loan	ny Soils (I	-20) (MLR	RA 149A, 153C, 153D)	
	yer (if observed):							
Туре: 6								10
Depth (inche	es):	)					Hydric Soil Present? Yes_	No X
Remarks:								
coul	d not	allas	or bol	MDI	101	nch	es, gravel	laun
0000		0000		0 0			of Oraver	19961
a+ 10	inch	OS.						
01110								
				-				



Upland data point wsuo027\_u facing southeast.



WEILAND DETERMINATION DATA	FORINI - Atlantic and Guil Coastal Flam Region
Project/Site: A CP	City/County: Suffolk Sampling Date: 01/4/14
Applicant/Owner: DOMINION	State: VA Sampling Point W540026t
Investigator(s): U-ROPER C. +OSE+O	Section, Township, Range: N A
Landform (hillslope terrace etc.): Flatwood	Local relief (concave, convex, none): No Ne Slope (%)
Subregion (LRR or MLRA): LRRT Lat: 30	.68259 Long: -16.13216 Datum: WGS &
	fine sand NWI classification: PFO
Are climatic / hydrologic conditions on the site typical for this time of y	
Are Vegetation, Soil, or Hydrology significantly	
Are Vegetation, Scil, or Hydrology naturally pr	
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?         Yes         No           Hydric Soil Present?         Yes         No           Wetland Hydrology Present?         Yes         No	Is the Sampled Area within a Wetland? Yes No
Remarks:	
NCWAM: Bottom land Hardwood!	Forest
MANAGE And Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual A	Secondary Indicators (minimum of two required)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)	
Surface Water (A1) Aquatic Fauna (B)	
✓ High Water Table (A2) Marl Deposits (B1	Here, NYC (1) 2018 전 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Saturation (A3) Hydrogen Sulfide	
1.	heres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Redu	
Drift Deposits (B3) Recent Iron Redu Algal Mat or Crust (B4) Thin Muck Surface	and the control of t
Iron Deposits (B5)  — Other (Explain in I	200 교육 2000 BBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
✓ Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	NIA
Surface Water Present? Yes No _X Depth (inches	
Water Table Present? Yes X No Depth (inches	
Saturation Present? Yes X No Depth (inchest (includes capillary fringe)	s): Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial pho-	tos, previous inspections), if available:
Remarks:	currently in indated
Portions of westand the	currently inundated.
■ MONTH AND THE STATE OF THE PROPERTY OF A CONTROL OF THE PROPERTY OF THE PRO	

201125	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 y b) (4)	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2 Carpinus caroliniana	10	4	FACW	Total Number of Dominant Species Across All Strata:
4				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6.				Prevalence Index worksheet:
7.				Total % Cover of: Multiply by:
8.				OBL species x1 =
	40	= Total Cov	er	TO A PROPERTY OF THE PROPERTY
50% of total cover: 20	20% of	total cover	9	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30 X30F )		V		FAC species x3 =
1 Carpinus caroliniana	20	Y	FACW	
2 Maghala virginiana	10	Y	FACT	UPL species x 5 =
3. Ilex opaca	5	N	FAC	Column Totals: (A) (B)
4			A HER STREET	Prevalence Index = B/A =
5.				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8.				3 - Prevalence Index is ≤3.01
	35	= Total Cov	er	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
50% of total cover: 7.5	_ 20% of	total cover	1	
Herb Stratum (Plot size: 30 x 3 U+1)				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. none				Definitions of Four Vegetation Strata:
2.				
3.				Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4,				more in diameter at breast height (DBH), regardless of height.
6				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
11				Woody vine - All woody vines greater than 3.28 ft in height.
12	- (( Lo	A CONTRACTOR		
	NIA	= Total Cov	er	
50% of total cover:	20% of	total cover		
Woody Vine Stratum (Plot size: 30 x 30 ft)		V	±AC.	
1. Smilax rotundifolia	10		THO	
2.				
3.				
4.		SALE E		
5				Hydrophytic
	10	= Total Cov	er -	Vegetation
50% of total cover:	Constitution and the second	total cover		Present? Yes / No
		total cover		
Remarks: (If observed, list morphological adaptations belo	w).			

-	u	ш	

WS40026FW
Sampling Point:

Profile Description: (Describe to the o	lepth needed to document the Indicator or confirm	the absence of Indicators.)
Depth Matrix (inches) Color (moist) %	Redox Features Color (moist) % Type Loc²	Texture Remarks
()-9 TOYR 3 2 100		Loamy-sand
0 20 10 48 612 01	FIDYRGILD 3 C M	sand
20-10 10 11 11 12 201	1011/10/10	
		Control of the Contro
		AND THE STATE OF T
<sup>1</sup> Type: C=Concentration, D=Depletion, F	RM=Reduced Matrix, MS=Masked Sand Grains.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to		Indicators for Problematic Hydric Solis <sup>3</sup> :
Histosol (A1)	Polyvalue Below Surface (S8) (LRR S, T, U	I) 1 cm Muck (A9) (LRR O) 2 cm Muck (A10) (LRR S)
Histic Epipedon (A2) Black Histic (A3)	Thin Dark Surface (S9) (LRR S, T, U) Loamy Mucky Mineral (F1) (LRR O)	Reduced Vertic (F18) (outside MLRA 150A,B)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Piedmont Floodplain Soils (F19) (LRR P, S, T)
Stratified Layers (A5)	Depleted Matrix (F3)	Anomalous Bright Loamy Soils (F20)
Organic Bodies (A6) (LRR P, T, U)	Redox Dark Surface (F6)	(MLRA 153B)  Red Parent Material (TF2)
5 cm Mucky Mineral (A7) (LRR P, T Muck Presence (A8) (LRR U)	U) Depleted Dark Surface (F7) Redox Depressions (F8)	Very Shallow Dark Surface (TF12)
1 cm Muck (A9) (LRR P, T)	Mari (F10) (LRR U)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Ochric (F11) (MLRA 151)	- 3. r. t. t. t. t. t. t. u. askalian and
Thick Dark Surface (A12)	Iron-Manganese Masses (F12) (LRR O, P,	T) sindicators of hydrophytic vegetation and wetland hydrology must be present,
Coast Prairie Redox (A16) (MLRA 1 Sandy Mucky Mineral (S1) (LRR 0,		unless disturbed or problematic.
Sandy Gleyed Matrix (S4)	Reduced Vertic (F18) (MLRA 150A, 150B)	[2] FOR SEA TO SEA TO SEA TO SEA TO SEA THE SEA TO SEA TO SEA TO SEA TO SEA THE SEA TO SEA TO SEA TO SEA TO SEA
Sandy Redox (S5)	Piedmont Floodplain Soils (F19) (MLRA 14	(AP)
Stripped Matrix (S6)	Anomalous Bright Loamy Soils (F20) (MLR	A 149A, 153C, 153D)
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed):	NOTES CONTRACTOR AND MAINTENANCE AND AND AND AND AND AND AND AND AND AND	The state of the s
Type:		
Depth (inches):		Hydric Soil Present? Yes X No
Remarks:		
nomana.		



Wetland data point wsuo026f\_w facing north.



Wetland data point wsuo026f\_w facing east.

WETLANI	DETERMINATION			ulf Coastal Plain Reg	ion
Project/Site: ACP		City/County:	Suffolk	Sampling	Date: 0 14
Applicant/Owner: DOMIN	101				Point: W540 026_
I pan of		Seatles Tour	rnship, Range:	A Sampling	) Politi.
irecongutor(s).				010100	NII
andform (hillslope, terrace, etc.):	111	Local relief (		none): None	_ Slope (%):
Subregion (LRR or MLRA):		at: 36.6824		16.73282	Datum: W 658
Soil Map Unit Name: Nanse	mond loum	y fine sa	nd	NWI classification:	UPLAND
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 si	ignificantly disturbed?	Are "Normal	Circumstances" present?	Yes No
re Vegetation, Soil				explain any answers in Rema	1
SUMMARY OF FINDINGS -					
Section (Section Control of Contr	Andrews Committee St. Committee Comm				Control of the Control of the Control
Hydrophytic Vegetation Present?	Yes X No	ls the	Sampled Area		V
Hydric Soil Present? Wetland Hydrology Present?		within	a Wetland?	Yes No	
Remarks:	Yes No				
remarks.					
Wetland Hydrology Indicators:  Primary Indicators (minimum of or  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)	Aquatic F Marl Dep Hydroger Oxidized Presence Recent Ir	AND DESCRIPTION OF THE PROPERTY OF THE PROPERT	ring Roots (C3)	Secondary Indicators (minir Surface Soil Cracks (B Sparsely Vegetated Co Drainage Patterns (B10 Moss Trim Lines (B16) Dry-Season Water Tab Crayfish Burrows (C8) Saturation Visible on A Geomorphic Position (I	6) pricave Surface (B8) D) ple (C2) perial Imagery (C9)
Iron Deposits (B5)		xplain in Remarks)		Shallow Aquitard (D3)	22)
Inundation Visible on Aerial Ir				FAC-Neutral Test (D5)	
Water-Stained Leaves (B9)				Sphagnum moss (D8)	
Field Observations:		110			
Surface Water Present? Ye	s No_X Dep				
Water Table Present? Ye	s No X Dept	th (inches): $> 20$			(,
Saturation Present? Ye (includes capillary fringe)		th (inches): >20	Wetland H	ydrology Present? Yes_	NoX_
Describe Recorded Data (stream	gauge, monitoring well, a	erial photos, previous in	spections), if avai	ilable:	100
Remarks:					
ioma no.					
Commence Contract Con					

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

211991154	Absolute	Dominant	Indicator	Dominance Test worksheet:	Minute I
Tree Stratum (Plot size: 30 \ 30 FT)  1. PINUS + aeda	% Cover	Species?	Status FAC	Number of Dominant Species That Are OBL, FACW, or FAC:	(A)
2. Carpinus caroliniana	10	4	FAC	Total Number of Dominant Species Across All Strata:	(B)
4	ASSERT THE EST.			Percent of Dominant Species That Are OBL, FACW, or FAC:	(A/B)
· 6.				A STATE OF THE STA	and a
7.		L. K	and the same	Prevalence Index worksheet:	10000
8.				Total % Cover of: Multiply by:	
	40	= Total Cov	rer C.	OBL species x 1 =	CONTRACTOR OF THE PARTY OF THE
50% of total cover: 20	20% of	total cover	:_9_	FACW species x 2 =	
Sapling/Shrub Stratum (Plot size: 30 X 20f1)		V	. 0	FAC species x 3 =	
1. Arex rubrum	10	1	FAC	FACU species x 4 =	
2 Carpinus caroliniana	10	Y	DAC	UPL species x 5 =	
3 Ilex opaca	10	7	FAC	Column Totals: (A)	_ (B)
4. Fagus granditalla	5	N	FACU	Prevalence Index = B/A =	
5				Hydrophytic Vegetation Indicators:	
6.				1 - Rapid Test for Hydrophytic Vegetation	
7.	-1-			2 - Dominance Test is >50%	
8				3 - Prevalence Index is ≤3.01	
	35	= Total Co	/er ¬	Problematic Hydrophytic Vegetation¹ (Expla	in)
50% of total cover: 17.5	20% of	total cover	:_1_	and the second s	
Herb Stratum (Plot size: 30 x30 ft)	10	4	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology be present, unless disturbed or problematic.	must
2.			I treatment of the	Definitions of Four Vegetation Strata:	
3.				Tree - Woody plants, excluding vines, 3 in. (7.6	cm) or
4		And the second		more in diameter at breast height (DBH), regard height.	
5	Pages Carrier	and the opening		Sapling/Shrub – Woody plants, excluding vines than 3 in. DBH and greater than 3.28 ft (1 m) tal	s, less
8				Herb – All herbaceous (non-woody) plants, rega	
9.				of size, and woody plants less than 3.28 ft tall.	
10				Woody vine – All woody vines greater than 3.20 height.	8 ft in
12.			A MARKETON AND		
	10	= Total Co	ver 2		01:50
50% of total cover:	20% 0	f total cover		The state of the s	
Woody Vine Stratum (Plot size: 30x 30++)	16	V	+Ar	Marie Committee of the	
1. (milax rotundifolia	10	_ 1	- 110		
2.	1000				
3.					
4					
5				Hydrophytic	
	10	= Total Co	ver _	Vegetation 🗸	
50% of total cover:	20% 0	f total cove	/	Present? Yes No	
Remarks: (If observed, list morphological adaptations beli	The state of the s				19000
Remarks. (ii observed, iist ma pridografi adaptations por	,				

Profile Description: (Describe to the dept	h needed to document the in	ndicator or confirm	n the absence of in	dicators.)		
Depth Matrix	Redox Features					
(inches) Color (moist) %	Color (moist) %	Type Loc2	Texture	Remarks		
	N 1/10 - 1	<u> </u>	751			
12-20 JOYR 41 96	10 1R5/05	CIVI	0			
			2, 1, 5, 5, 1			
<sup>1</sup> Type: C=Concentration, D=Depletion, RM= Hydric Soil Indicators: (Applicable to all I	Reduced Matrix, MS=Masked	Sand Grains.		Pore Lining, M=Matrix. Problematic Hydric Soils <sup>a</sup> :		
	Polyvalue Below Surface					
Histosol (A1) Histic Epipedon (A2)	Thin Dark Surface (S9)		2 cm Muck	THE R. P. LEWIS CO. LEWIS CO. LEWIS CO. LEWIS AND ADDRESS OF THE PROPERTY OF T		
Black Histic (A3)	Loamy Mucky Mineral (			ertic (F18) (outside MLRA 150A,B)		
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (I			codplain Soils (F19) (LRR P, S, T)		
Stratified Layers (A5)	Depleted Matrix (F3)	해당이 6 (1021년) 등 1 (12 ) 불명 (2 (12 ) 등 - 12 ) (12 ) (12 )		Bright Loamy Soils (F20)		
Organic Bodies (A6) (LRR P, T, U)	Redox Dark Surface (F	다리 아이는 사람이 아이들이 얼마나 아니다.	(MLRA 1	Material (TF2)		
5 cm Mucky Mineral (A7) (LRR P, T, U) Muck Presence (A8) (LRR U)	Depleted Dark Surface Redox Depressions (F8)			w Dark Surface (TF12)		
1 cm Muck (A9) (LRR P, T)	Marl (F10) (LRR U)			ain in Remarks)		
Depleted Below Dark Surface (A11)	Depleted Ochric (F11)					
Thick Dark Surface (A12)	Iron-Manganese Masse			of hydrophytic vegetation and		
Coast Prairie Redox (A16) (MLRA 150A				hydrology must be present, isturbed or problematic.		
Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4)	Delta Ochric (F17) (ML Reduced Vertic (F18) (I			istarbed of problematic.		
Sandy Redox (S5)	Piedmont Floodplain So					
Stripped Matrix (S6)	Anomalous Bright Loan			D)		
Dark Surface (S7) (LRR P, S, T, U)						
Restrictive Layer (if observed):						
Type:	<del>_</del>			ent? Yes X No		
Depth (inches):			Hydric Soll Pres	ent? Yes // No		
Remarks:						
A STATE OF THE STA						
The Market Control of the Control of						
<ul> <li>Particular visitation of the last of the control of t</li></ul>						



Upland data point wsuo026\_u facing west.



Upland data point wsuo026\_u facing south.

	FORM – Atlantic and Gulf Coastal Plain Region
Project/Site: A CP	City/County: Suffolk Sampling Date: 1/13/16
Applicant/Owner: Dominion	State VA Sampling Point WS up 025f.
Paner ( lacote	Section Township Bango: N/A
Investigator(s): Drdlhddo	Legal solid (conseque sociales pope) NONE Stope (%) N/A
Landform (hillslope, terrace, etc.):	. 6843 Long: 70.732158 Datum: W658
Subregion (LRR or MLRA): Lat:	Local relief (concave, convex, none): NONE Slope (%) N/A  Local relief (concave, convex, none): NONE Slope (%) N/A  Datum: W658
Soil Map Unit Name: Levy 3.1.7 Clay	
Are climatic I hydrologic conditions on the site typical for this time of ye	ear? YesX No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally 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           Wetland Hydrology Present?         Yes         No	Is the Sampled Area within a Wetland? Yes No
Remarks:	
NCWAM: Bottomland Hardwood	Forest
HYDROLOGY	The following of two required)
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	
Surface Water (A1) Aquatic Fauna (B1	16. C. C. C. C. C. C. C. C. C. C. C. C. C.
High Water Table (A2)  Marl Deposits (B15  X Saturation (A3)  Hydrogen Sulfide 0	
	neres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2)  Presence of Reduce	ced Iron (C4) Crayfish Burrows (C8)
Drift Deposits (B3) Recent Iron Reduc	ction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface	
Iron Deposits (B5) Other (Explain in F	Remarks) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)  Sphagnum moss (D8) (LRR T, U)
Water-Stained Leaves (B9)	Spriagram moss (bb) (ERR 1, 5)
Field Observations: Surface Water Present?  Yes No Depth (inches	A M
Water Table Present? Yes No Depth (inches Saturation Present? Yes No Depth (inches	3500m con tamin 4 # 4-4 1-4 25 4 25 1 2 3 4 4 1 2 3 2 3 2 3 2 3 2 3 3 3 3 3 3 3 3 3 3
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photo	os, previous inspections), if available.
Portions of wetland are inunda	to d
Portions of Werland areinwhole	. 606

DOVANEL	Absolute	Dominar	nt Indicator	Dominance Test worksheet:	190/5/2 (6.77)	
1. Quercy michayxii	10	Species	FAC.W	Number of Dominant Species That Are OBL, FACW, or FAC:	7	_ (A)
2 Acerrubyum 3 Ilex opaca	10	1	FAC	Total Number of Dominant Species Across All Strata:	7	(B)
5.				Percent of Dominant Species That Are OBL, FACW, or FAC:	100	(A/B)
6.				Prevalence Index worksheet:		
7				Total % Cover of:	Multiply by:	
8.						The state of the s
	45	= Total C	over .	OBL species x 1		2 TEACH CO. L. C. C. C. C. C. C. C. C. C. C. C. C. C.
50% of total cover 22	5 20% of	total cove	r C	FACW species x 2		Martin Control of The State of
Sapling/Shrub Stratum (Plot size: 30 X 35 1)	. 7	1		FAC species x 3		
1 Ilex opaca	0	7	FAC	FACU species x 4		
2 Acer rubrum	710	Y	FAC	UPL species x 5	=	_
The second state of the second of the second	Carlot Long of			Column Totals: (A)		(B)
3.	three characters of					
4.	in magni streamin			Prevalence Index = B/A = _		
5.				Hydrophytic Vegetation Indicate		
6.				1 - Rapid Test for Hydrophytic	: Vegetation	
7				2 - Dominance Test is >50%		
8. <u></u>	-00	000000000000000000000000000000000000000		3 - Prevalence Index is ≤3.01		
1=	30:	= Total Co	over U	Problematic Hydrophytic Veg	etation¹ (Expl	ain)
50% of total cover:	20% of	total cove	r			
Herb Stratum (Plot size: 30 X30ft) 1. Arundinana giganteo	20	Y	FACW	<sup>1</sup> Indicators of hydric soil and wetla be present, unless disturbed or pr	nd hydrology oblematic.	must
1. HIMITATE STATES		1 50006.00		Definitions of Four Vegetation S	STREET, STREET	
2						
3				Tree - Woody plants, excluding v	nes, 3 in. (7.6	cm) or
4				more in diameter at breast height height.	(DBH), regard	diess of
6				Sapling/Shrub – Woody plants, e than 3 in. DBH and greater than 3	xcluding vine .28 ft (1 m) ta	s, less
В.			-	Herb – All herbaceous (non-wood of size, and woody plants less that	y) plants, reg	ardless
9.						
10				Woody vine - All woody vines gr	eater than 3.2	8 ft in
11,				height.		
12						
	20:	= Total Co	over A			COUNTY OF
50% of total cover:	20% of	total cove	r:			
Woody Vine Stratum (Plot size: 30 X30L)	15					
1 Smilax rotundifolia	19	4	FAC			
		THE PLAN				
4						
5	10			Hydrophytic		
7.0	CONTRACTOR MANAGEMENT	= Total Co	-	Vegetation Present? Yes	No	
50% of total cover:	20% of	total cove	r			
Remarks: (If observed, list morphological adaptations belo	w).					

Sampling Point: \_\_\_\_

Profile Desi	cription: (Describe to	o the deoth r	needed to docum	ent the indicato	r or confirm	n the absence	Di midicator	3.1	
	Matrix	<b>4-</b> Pii//		Features					
Depth (inches)	Color (moist)		Color (moist)	% Type	Loc2	Texture		Remarks	
0-15	TINP OIL	100				LFS			_
0 10	10117 11								
									78.0
									-
									_
			The state of the s	2000 Carlot Carl					
				politica de la constitución de l					-
									_
IT may C=C	oncentration, D=Deple	etion RM=Re	duced Matrix MS	=Masked Sand (	Grains.	<sup>2</sup> Location:	PL=Pore Lin	ning. M=Matrix.	
Hydric Soil	Indicators: (Applica	ble to all LRI	Rs. unless other	wise noted.)		Indicators	for Problem	natic Hydric Soils <sup>3</sup> :	
			Polyvalue Bel		LRR S. T.	U) 1 cm	Muck (A9) (L	RR O)	
Histosol	pipedon (A2)		Thin Dark Sur			2 cm	Muck (A10) (	LRR S)	
The state of the s	istic (A3)			Mineral (F1) (LF		Reduc	ced Vertic (F	18) (outside MLRA 150A	A,B)
	en Sulfide (A4)		Loamy Gleyer			Piedm	nont Floodpla	in Soils (F19) (LRR P, S,	, T)
	d Layers (A5)		Depleted Mat					Loamy Soils (F20)	
	Bodies (A6) (LRR P,	T, U)	Redox Dark S				RA 153B)		
	ucky Mineral (A7) (LR	RP, T, U)		k Surface (F7)			Parent Materia		
	resence (A8) (LRR U)		Redox Depre					Surface (TF12)	
Calculation 6.346-300000	uck (A9) (LRR P, T)		Marl (F10) (LI			Other	(Explain in F	(emarks)	
	d Below Dark Surface	(A11) _	Depleted Och	ric (F11) (MLRA	151)	<b>3</b> . •	anhora of bod	rophytic vegetation and	
Thick D	ark Surface (A12)	-	Iron-Mangane	ese Masses (F12	(LRR O, P	, T) Indi	caters of nyo	ogy must be present,	1133
	Prairie Redox (A16) (M		Umbric Surfa	ce (F13) (LRR P,	T, U)			d or problematic.	
The Assessment of the Late of	Mucky Mineral (S1) (L	RRO, S)	Delta Ochric	(F17) (MLRA 151	)		1622 DISTRIBE	a or problemation	
Constitution of the Consti	Gleyed Matrix (S4)	•	Reduced Ver	tic (F18) (MLRA	15UA, 15UB	40.41			
Commence of the State of the St	Redox (S5)		Pleamont Flo	odplain Soils (F1 right Leamy Soils	(E20) (MIII	PA 149A 1530	2. 153D)		2000
Stripped	d Matrix (S6)		Anomaious B	right Leamy Soil:					
		- 111			(,				
	rface (S7) (LRR P, S,	, T, U)							
	urface (S7) (LRR P, S, Layer (if observed):	, T, U)			/				
		, T, U)	_		/ ( ) - /			vas X No	
Restrictive Type: Depth (in	Layer (if observed):		_			Hydric So	II Present?	Yes No	_
Restrictive Type: Depth (in	Layer (if observed):		_			Hydric So	II Present?		
Restrictive Type: Depth (in	Layer (if observed):		_			Hydric So	II Present?		
Restrictive Type: Depth (in	Layer (if observed):		_			Hydric So	II Present?		
Restrictive Type: Depth (in	Layer (if observed):		_			Hydric So	II Present?		
Restrictive Type: Depth (in	Layer (if observed):		_			Hydric So	II Present?		
Restrictive Type:  Depth (in	Layer (if observed):		_			Hydric So	II Present?		
Restrictive Type:  Depth (in	Layer (if observed):		_			Hydric So	II Present?		
Restrictive Type:  Depth (in	Layer (if observed):		_			Hydric So	II Present?		
Restrictive Type:  Depth (in	Layer (if observed):		_			Hydric So	II Present?		
Restrictive Type:  Depth (in	Layer (if observed):		_			Hydric So	II Present?		
Restrictive Type:  Depth (in	Layer (if observed):		_			Hydric So	II Present?		
Restrictive Type:  Depth (in	Layer (if observed):		_			Hydric So	II Present?		
Restrictive Type:  Depth (in	Layer (if observed):		_			Hydric So	II Present?		
Restrictive Type:  Depth (in	Layer (if observed):		_			Hydric So	II Present?		
Restrictive Type:  Depth (in	Layer (if observed):		_			Hydric So	II Present?		
Restrictive Type:  Depth (in	Layer (if observed):		_			Hydric So	II Present?		
Restrictive Type:  Depth (in	Layer (if observed):		_			Hydric So	II Present?		
Restrictive Type:  Depth (in	Layer (if observed):		_			Hydric So	II Present?		
Restrictive Type:  Depth (in	Layer (if observed):		_			Hydric So	II Present?		
Restrictive Type:  Depth (in	Layer (if observed):		_			Hydric So	II Present?		
Restrictive Type:  Depth (in	Layer (if observed):		_			Hydric So	II Present?		
Restrictive Type:  Depth (in	Layer (if observed):		_			Hydric So	II Present?		
Restrictive Type: Depth (in	Layer (if observed):		_			Hydric So	II Present?		
Restrictive Type:  Depth (in	Layer (if observed):		_			Hydric So	II Present?		
Restrictive Type:  Depth (in	Layer (if observed):		_			Hydric So	II Present?		



Wetland data point wsuo025f\_w facing southwest.



Wetland data point wsuo025f\_w facing southeast.

WE	TLAND DETERM	INATION DATA FOR			Plain Region	441 1
Project/Site:	CP	City	County: 50	IFFOIK	Sampling Date:	01/13/16
Applicant/Owner: D0	MIMION			State: VA	Sampling Point:	Wsno 025-
Investigator(s): L-ROI		cofa san	tion, Township, R			
		lope Local	ion, rownsiip, re	convex, none): 00	ne sh	pe (%) N/A
Landform (hillslope, terrace	J. 616 /-	21- (0C	LGGO	-10 72°	776	ntum: WGS&
Subregion (LRR or MLRA)	LICIOI			Long: -16.737		
Soil Map Unit Name: L					sification: UPL	HIVL
Are climatic / hydrologic co	enditions on the site typ	ical for this time of year?	Yes X No.	(If no, explain in	n Remarks.)	\/
Are Vegetation, So	il, or Hydrology	significantly dist	urbed? Are	"Normal Circumstance	s" present? Yes	X No
Are Vegetation, So				needed, explain any ans	swers in Remarks.)	
SUMMARY OF FIND	INGS - Attach si	te map showing sa	mpling point	locations, transec	cts, important f	eatures, etc.
Hydrophytic Vegetation F Hydric Soil Present? Wetland Hydrology Prese Remarks:	Yes_	No   X   No   X   No   X	Is the Sample within a Wetl:	d Area and? Yes	No <u>X</u>	_
		- 12 (12 (12 (12 (12 (12 (12 (12 (12 (12				
HYDROLOGY					t - t - t - t - t - t - t - t - t - t -	Etwo required)
Wetland Hydrology Indi				the second to the second with the second party to the behalf to the te	dicators (minimum o	r (wo required)
Primary Indicators (minin					Soil Cracks (B6)	Surface (DR)
Surface Water (A1)		_ Aquatic Fauna (B13)			Vegetated Concave Patterns (B10)	Surface (BC)
High Water Table (A		_ Marl Deposits (B15) (LI			n Lines (B16)	
Saturation (A3)	<del>-</del>	<ul> <li>Hydrogen Sulfide Odor</li> <li>Oxidized Rhizospheres</li> </ul>			on Water Table (C2	)
Water Marks (B1) Sediment Deposits (	P21	Presence of Reduced I			Burrows (C8)	
Drift Deposits (B3)	D2)	Recent Iron Reduction			n Visible on Aerial In	nagery (C9)
Algal Mat or Crust (E	34)	_ Thin Muck Surface (C7			hic Position (D2)	
Iron Deposits (B5)		Other (Explain in Rema		Shallow A	Aquitard (D3)	
Inundation Visible or	Aerial Imagery (B7)			∠ FAC-Neu	tral Test (D5)	
Water-Stained Leave				Sphagnu	m moss (D8) (LRR	r, u)
Field Observations:		V	NIA			
Surface Water Present?	Yes No	Depth (inches):	15/6			1/
Water Table Present?	res No	Deput (inches)				X
Saturation Present? (includes capillary fringe)	Yes No	Depth (inches):	>20 v	Vetland Hydrology Pre	sent? Yes	_ No /
Describe Recorded Data	(stream gauge, monito	oring well, aerial photos, p	revious inspection	ns), if available:		
Remarks:						

01/200			Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 43 0 P4)  1. Livio dendron tulipifera	%.Cover	Species'	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2. QUERCUS rulota 3. Acer rubrum	50	-17	FACU	Total Number of Dominant Species Across All Strata: (B)
4. Ilex opaca	110	Y	FAC	
5.				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6.				Prevalence Index worksheet:
7.				Total % Cover of: Multiply by:
8.	60			OBL species x 1 =
25		= Total Co		FACW species x 2 =
50% of total cover: 25	2 20% of	total cove	r. 10	FAC species x3 =
Sapling/Shrub Stratum (Plot size: 30 x 30ff)	5	V	FAC	FACU species x 4 =
1. Ilex opera	-	-	1.1.4	UPL species x 5 =
2. Acer rubrum 3. Lirio dendron tulipi ford	5	1	FAC	Column Totals: (A) (B)
4.				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6		1.00		1 - Rapid Test for Hydrophytic Vegetation
7				12 - Dominance Test is >50%
B				3 - Prevalence Index is ≤3.0 <sup>1</sup>
	15	= Total Co	ver A	Problematic Hydrophytic Vegetation¹ (Explain)
Herb Stratum (Plot size: 30 x 30 total cover: 7.	20% of	total cove	r. <u>3</u>	
1. Ligustrum sinense	10	4	FAC	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2 Arundinaria gigantea	10	Y	FACIN	Definitions of Four Vegetation Strata:
3. Chasmanthium latifolium	10	Ÿ	FAC	T Manda stanta evaluding vines 3 in (7.5 cm) or
4.				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5.	CONTRACTOR CONTRACTOR			height.
6.				Sapling/Shrub - Woody plants, excluding vines, less
7.				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
9				
10				Woody vine – All woody vines greater than 3.28 ft in height.
11.				neight.
12	30	- Total Co		
50% of total cover:	A Francisco Hearth Busin Rev.	= Total Co total cove	n	
	20% 01	total cove	i mana	
Woody Vine Stratum (Plot size: 30 x 30ft)	15	Y	FAC	
- Vitil Intingi Falia	=	V	FAC	
2. 41113 POTUTAL 78114		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Inc	
3.	ALCOHOLD STATE			
4.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	007 (14.00)		
5		THE REPORT OF		Hydrophytic
10	CALCULATION DESCRIPTION OF STREET	= Total Co	4	Vegetation Present? Yes No
50% of total cover:	AND THE PERSON OF THE PERSON O	total cove		AND THE PERSON OF THE PERSON O
Remarks: (If observed, list morphological adaptations below	ow).			

Sampling Point:

	h needed to document the Indicator or confirm	the absence of Indicators.)
Depth Matrix (jpches) Color (moist) %	Redox Features  Color (moist)	Texture Remarks
V-10 10 YR 3/2 100		ES >30% uncoated rand grain
10-20 10YR 5/4 100		SCL .
10-20 1011 9/2 100		
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=	Reduced Matrix, MS=Masked Sand Grains.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all I	.RRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Polyvalue Below Surface (S8) (LRR S, T, U	) 1 cm Muck (A9) (LRR O)
Histic Epipedon (A2)	Thin Dark Surface (S9) (LRR S, T, U)	2 cm Muck (A10) (LRR S)
Black Histic (A3)	Loamy Mucky Mineral (F1) (LRR O)	— Reduced Vertic (F18) (outside MLRA 150A,B)  — Piedmont Floodplain Soils (F19) (LRR P, S, T)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2) Depleted Matrix (F3)	Anomalous Bright Loamy Soils (F20)
Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U)	Redox Dark Surface (F6)	(MLRA 153B)
5 cm Mucky Mineral (A7) (LRR P, T, U)	Depleted Dark Surface (F7)	Red Parent Material (TF2)
Muck Presence (A8) (LRR U)	Redox Depressions (F8)	Very Shallow Dark Surface (TF12)
1 cm Muck (A9) (LRR P, T)	Marl (F10) (LRR U)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Ochric (F11) (MLRA 151) Iron-Manganese Masses (F12) (LRR O, P,	T) 3Indicators of hydrophytic vegetation and
Thick Dark Surface (A12)     Coast Prairie Redox (A16) (MLRA 150A)	(2) (1.1. 1.1. 1.1. 1.1. 1.1. 1.1. 1.1. 1.	wetland hydrology must be present,
Sandy Mucky Mineral (S1) (LRR O, S)	Delta Ochric (F17) (MLRA 151)	unless disturbed or problematic.
Sandy Gleyed Matrix (S4)	Reduced Vertic (F18) (MLRA 150A, 150B)	
Sandy Redox (S5)	Piedmont Floodplain Soils (F19) (MLRA 14	9A)
Stripped Matrix (S6)	Anomalous Bright Loamy Soils (F20) (MLR.	A 149A, 153C, 153D)
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed):		
Type:		,,
Depth (inches):		Hydric Soil Present? Yes NoX
Remarks:		
Remarks.		





Upland data point wsuo025\_u facing northeast.

	Charles a secret year state	ND DETER	MINATION	DATA FOR				astal Pi			11 - 1
Project/Site:	ACP			City/0	County:	SUFFO	IK		Sampling	Date:	1/13/16
Applicant/Owner:	Domi	nion					State: _	VA	Sampling	Point W	sud 024f-1
Investigator(s):	- RUDJ	er. 5. 1	OSOFO	Secti	on. Towns	ship, Range:					
Landform (hillslope, t	larrana ata	. Drai	nage	Loca	relief (co	ncave, conve	c none):	Non	e	Slope	(%) N/A
Subregion (LRR or M	errace, etc.	RIST	1.00 9 0	at:36.60	193	Long	-710	735	27	Datur	m:W6584
Soil Map Unit Name:	E -	la lon				cong.			cation:	DE	
Soil Map Unit Name:	LUND	100	VVIQ TI	110 300	1	CONTRACTOR CONTRACTOR	GET LE TOUR DE LE COMMON DE LE				
Are climatic / hydrolo						_ NO	(II no, e.	xpiani ni r		v. ~	No
Are Vegetation											_ 140
Are Vegetation						(if needed					
SUMMARY OF F	FINDINGS	S - Attach	site map	showing sar	npling p	oint locat	ions, tr	ansects	, import	ant fea	tures, etc.
Hydrophytic Vegeta Hydric Soil Present Wetland Hydrology	?	Yes				ampled Area Wetland?		Yes_X	No.		
Remarks:											
NCWAI	M: H.	eadwate	er Fore	st							
HYDROLOGY											
Wetland Hydrolog	v Indicator	s:					Second	dary Indic	ators (minir	mum of tv	vo required)
Primary Indicators (			ed; check all t	hat apply)					Cracks (B		
Surface Water	SERVICE STATE OF THE SERVICE S		Aquatic								urface (B8)
High Water Tal	ble (A2)			osits (B15) (LR			Company of the Compan		atterns (B1		
Saturation (A3)	)		Hydroge	n Sulfide Odor (	(C1)		SCHOOL SECTION		ines (B16)		
X Water Marks (E	31)			Rhizospheres		ng Roots (C3)			Water Tab		
Sediment Depo				e of Reduced In					rrows (C8)		(CO)
Drift Deposits (				ron Reduction in		ils (C6)	Library Company Company		risible on A		Jery (Ca)
Algal Mat or Cr				ck Surface (C7)			the Company of the Company		Position ( uitard (D3)	02)	
Iron Deposits (				xplain in Remar	ks)				l Test (D5)		
Inundation Visi			)						moss (D8)		ال (ال
	Nov-Briandard Later V. T. March	1					A 01	January		Marie Para Carlo	
Surface Water Pres		Ves A	lo X Der	oth (inches):	NA						
Water Table Prese		Yes X N	lo Der	oth (inches):	15						
Saturation Present			The second second	oth (inches):	6	Wetland	Hydrolo	gy Prese	nt? Yes	X	No
(includes capillary f	fringe)				oulous les						
Describe Recorded	1 Data (strea	ım gauge, mo	nitoning well, a	ienai priotos, pr	evious iiis	pectoris), ii a	Vallabio.				
Remarks:		•									
portions	· · t	wetto	-nd in	nunda-	ted						
Portione	, 0,										
	4										

VEGETATION (1 cui Guata) - God Goldmano Hain	100 01 P1	-		Dominance Test worksheet:
Tree Stratum (Plot size: 30 X30FT)			t Indicator Status	
Tree Stratum (Plot size:		N/	FAC	Number of Dominant Species That Are OBL FACW, or FAC:  (A)
1. Liquidambar styracition	5	-1		That Are OBL, FACW, or FAC:(A)
2. Litiodendron tulipitera	10	1	FAC	Total Number of Dominant
3. Ilex opaca		Y	FAC	Total Number of Dominant Species Across All Strata:  (B)
「PROTED Annual Mean of the post for the Matter Conference Confer	S CAMPING TO THE STATE OF		THE OWNER OF THE PARTY.	
4		Application for the contract		Percent of Dominant Species 90
5				That Are OBL, FACW, or FAC: (A/B)
6.			A STATE OF THE PERSON NAMED IN	
				Prevalence Index worksheet:
7.				Total % Cover of: Multiply by:
8.				The second secon
	20	= Total Co	ver	OBL species x 1 =
50% of total cover:	200/ -6	total cove	4	FACW species x 2 =
50% of total cover.	_ 20% 01	total cove	-	FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 30x30F+)				FACU species x 4 =
1. Ilex opaca	10	4	FAC	
2. Aur rubrum	5	Y	FAC	UPL species x 5 =
		-		Column Totals: (A) (B)
3. Liquidambar styraciflua	5		FAC	
4				Prevalence Index = B/A =
THE STATE OF THE PARTY OF THE P				
5.		TOTAL STREET, TO	CONTRACTOR CONTRACTOR	Hydrophytic Vegetation Indicators:
6.				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
THE REPORT OF THE PERSON WITH THE PROPERTY OF THE PERSON O				
8.	0.0			3 - Prevalence Index is ≤3.01
	120	= Total Co	wer	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover:	20% of	total cove	r. 4	
20 × 30 × 30 + 1.				
Herb Stratum (Plot size: 30 X 3 OFT)	-	V	FAC	Indicators of hydric soil and wetland hydrology must
1. Lieustrum sinense	5			be present, unless disturbed or problematic.
2. Atundinaria gigantea	15	Y	FACW	Definitions of Four Vegetation Strata:
		AND CONTRACTOR		
				Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4.				more in diameter at breast height (DBH), regardless of
5.				height.
AND AND THE PARTY OF THE PARTY				
6.	Part Control	Mark Hallow, 15		Sapling/Shrub - Woody plants, excluding vines, less
7.				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8.				Herb - All herbaceous (non-woody) plants, regardless
TO THE STATE OF THE PARTY OF TH				of size, and woody plants less than 3.28 ft tall.
9.	THE PERSON		La Carto Maria	of size, and woody plants less than 5.25 it tan
10				Woody vine - All woody vines greater than 3.28 ft in
11.				height.
CARROLL IN THE SECOND CONTRACTOR OF A SECOND CONTRACTOR OF THE CONTRACTOR OF A SECOND CONTRACTOR OF THE CONTRACTOR OT THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF TH	210176-1200			
12.	- ()	THE STREET AND THE		
	10	= Total Co	ver	
50% of total cover:	20% of	total cove	- 4	
	_ 20,00	total cove	Contractor	
Woody Vine Stratum (Plot size: 20 x 20ft)		V	FAALL	
1. Lunicera japonica	10		TAUM	
2. Smilax rotundifolia	15	Y	FAC	
2 STRITAL POTONOLIONA	- 1 Thomas	are states time	transportant live	
3.	ALCOHOLDS			
4				
			PROBLEM STATE	
5. Carried to the control of the con	150	The Parish of the Parish of the Parish of the Parish of the Parish of the Parish of the Parish of the Parish of the Parish of the Parish of the Parish of the Parish of the Parish of the Parish of the Parish of the Parish	especial control	Hydrophytic
		= Total Co	ver 6	Vegetation Present? Yes No
50% of total cover: \2.5	20% of	total cove	E 0	Present? Yes No
THE RESIDENCE AND A SECURITY OF THE PROPERTY O		Shichwij devrous	A STATE OF THE STA	second on the control of the control
Remarks: (If observed, list morphological adaptations below	V).			

Profile Desc	ription: (Describe	to the dep	th needed to docum			or confirm	the absence o	findicators.)
Depth	Matrix Color (moist)	%	Color (moist)	Features %	Type	Loc²	Texture	Remarks
(inches)	10 YR 3/2	97	10 4R 4/6	3	C	PL	L	
8-20	104831	97	10 YR4/6	3	C	PL	6	
0-60	1011011		10 115 100	PATE N				
					TO SE			
		-						
			10000				21 1	DI - Dero Lining M-Matrix
'Type: C=C	oncentration, D=Dep	oletion, RM=	Reduced Matrix, MS LRRs, unless other	Masked	Sand Gra	ains.	Indicators f	PL=Pore Lining. M=Matrix. or Problematic Hydric Solis <sup>3</sup> :
Histosol		able to an	Polyvalue Be			RR S. T. U)		uck (A9) (LRR O)
and the second s	oipedon (A2)		Thin Dark Su				2 cm Mu	uck (A10) (LRR S)
Victorial designation of the con-	stic (A3)		Loamy Mucky	y Mineral (	F1) (LRR		Reduce	d Vertic (F18) (outside MLRA 150A,B)
	en Sulfide (A4)		Loamy Gleye		F2)			nt Floodplain Soils (F19) (LRR P, S, T) ous Bright Loamy Soils (F20)
	Layers (A5)	T 111	Nedox Dark S		6)		and the state of t	A 153B)
	Bodies (A6) (LRR Facky Mineral (A7) (L						Red Par	rent Material (TF2)
	esence (A8) (LRR L		Redox Depre					nallow Dark Surface (TF12)
1 cm Mt	ick (A9) (LRR P, T)		Marl (F10) (L				Other (E	Explain in Remarks)
	d Below Dark Surface	e (A11)	Depleted Oct				r) <sup>3</sup> Indica	ators of hydrophytic vegetation and
	ark Surface (A12) rairie Redox (A16) (	MIRA 1504						and hydrology must be present,
Visionista, in telephonic	Aucky Mineral (S1) (		Delta Ochric				unle	ss disturbed or problematic.
Comment of the Commen	Gleyed Matrix (S4)		Reduced Ver					
Children State Co. T. Phil	Redox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 149	3A) A 149A, 153C,	153D)
12 0 000 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	l Matrix (S6) rface (S7) (LRR P,	S T III	Anomalous E	right Lean	ny Solis (	rzo) (WERA	1 1437, 1330,	1550)
	Layer (if observed)							
Type:			<u> </u>					· ·
The Control of the Co	ches):						Hydric Soll I	Present? Yes No No
Remarks:				F HOME TO				