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

	Absolute	Dominan	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 305+ X 305+)		Species	? Status	Number of Dominant Species
1. Acer rubrum	10		+AC	That Are OBL, FACW, or FAC: (A)
2. Carpinas caroliniana	20		FAC	Total Number of Dominant
3 Platanus occidentalis	(()	7	FACW	Species Across All Strata: (B)
4.				Percent of Dominant Species
5				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6.				
7.				Prevalence Index worksheet:
				Total % Cover of: Multiply by:
8	110	= Total Co		OBL species x 1 =
				FACW species x 2 =
50% of total cover: 20	20% 0	total cove	r:	FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 308+ ×308+)	()	4	-0-	FACU species x 4 =
1. Asimina triloba	10		FAC	UPL species x 5 =
2. COTAUS ammunum	15	7	FACW	Column Totals: (A) (B)
3.				Column Totals (A) (B)
4.		100000		Prevalence Index = B/A =
5.				Hydrophytic Vegetation Indicators:
6.				Trapid Test for Hydrophytic Vegetation
7.				2 - Dominance Test is >50%
8.	1000			3 - Prevalence Index is ≤3.0¹
0,	25	= Total Co	ver	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 12.5				Problematic Hydrophytic Vegetation (Explain)
	20% 0	total cove	-	
Herb Stratum (Plot size: 204 x3084)	5	Y	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. Dichanthelium scoparium		-11	FAC	CANDELLA CONSTRUCTOR DE LA CONTRACTOR NO ASSESSADA CONTRACTOR DE CONTRAC
2. Microstegiam vimineum	9	7	FILE	Definitions of Four Vegetation Strata:
3.			and the same	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4.	and the state of			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.			The area of the control of the contr	Herb - All herbaceous (non-woody) plants, regardless
9.				of size, and woody plants less than 3.28 ft tall.
10.				
AND THE RESIDENCE OF THE PROPERTY OF THE PROPE		-		Woody vine – All woody vines greater than 3.28 ft in height.
11.	7-17-12-17	CONTRACTOR		neight.
12	16	THE PART OF THE		
	Journal of the Control	= Total Co	_	The state of the s
50% of total cover:	20% o	f total cove	r d	
Woody Vine Stratum (Plot size: 26+X308+)	_		TAC	
1. Smilax votundifolia			FIL	
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Tales halis	
3.	er minerale en	The second second		
4. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10	North Art State	or control	n in the course	
5				Hydrophytic
The second secon	5	= Total Co	ver	Vegetation
		f total cove	N3000	Present? Yes No
50% of total cover: 2.		I total cove		
Remarks: (If observed, list morphological adaptations below	ow).			
				e a congress of many and the second second second second

Depth inches)	Matrix			x Features			the absence of it	
A ICH PEST	Color (moist)	%	Color (moist)		Type <sup>1</sup>	Loc²	Texture	* Remarks
1-12	104R4/1		104R4/4	10	(	M	L5	
10	100/10 1/		1					
		-					20-00	
			T					
				1 212				
	oncentration, D=Dep	letion RM=	Reduced Matrix M	S=Masked S	Sand Grain	S.	<sup>2</sup> Location: PL:	Pore Lining, M=Matrix.
dric Soil I	ndicators: (Applic	able to all L	RRs, unless othe	rwise noted	d.)		Indicators for	Problematic Hydric Soils <sup>3</sup> :
Histosol			Polyvalue Be			R S. T. U	1 cm Muck	(A9) (LRR O)
	ipedon (A2)		Thin Dark St				2 cm Much	(A10) (LRR S)
Black His	March Alexander and Art 7 to 1997		Loamy Muck				Reduced \	/ertic (F18) (outside MLRA 150A
	n Sulfide (A4)		Loamy Gley				Piedmont	Floodplain Soils (F19) (LRR P, S,
	Layers (A5)		Depleted Ma					s Bright Loamy Soils (F20)
	Bodies (A6) (LRR P	, T, U)	Redox Dark	Surface (F6	5)		(MLRA	
	cky Mineral (A7) (Li		Depleted Da					nt Material (TF2)
Muck Pr	esence (A8) (LRR L		Redox Depr		)			low Dark Surface (TF12)
	ck (A9) (LRR P, T)		Marl (F10) (1			. 9	Other (Ex	plain in Remarks)
	Below Dark Surfac	e (A11)	Depleted Oc				T) Jandicolo	rs of hydrophytic vegetation and
	ark Surface (A12)	n Ly	Iron-Mangar				i) indicato	d hydrology must be present,
	rairie Redox (A16) (I		Umbric Surf			J)	wellan	disturbed or problematic.
	lucky Mineral (S1) (	LRR O, S)	Delta Ochric			4=081	Uness	distance of problemate
	Sleyed Matrix (S4)		Reduced Ve				0.4.)	
	ledox (S5)		Anamalaus	Dright Loam	Soile (F2	O (MI R	A 149A, 153C, 15	53D)
	Matrix (S6)	. T III	II Allomaious	Diigiit Loain	ly 20113 (1 2	b) (merc	, 110/10 1000	
	rface (S7) (LRR P, ! Layer (if observed)					* *	The second second	Activities and the second
Type:							Hydric Soil Pr	esent? Yes No
Depth (in	ches):			Barray Was	and the	A (Art of the last)	Tiyane cont.	COLOR DE CONTRACTOR DE LA CONTRACTOR DE CONT
emarks:								
	Post 12	11						
Aza-	Defect to the second							
ANS	POIST 12							
ANS	POIST (2							
ANS	POST (2							
ANG	POIST (2							
ANS	P3157 (2							
AND	POST (2							
ANS	POST (2							
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ANA	P3137 (2							
ANA	P3137 (2							
ANA	P3137 (2							
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CNA	POIST (2							
CNA	POIST (2							
NA	POIST (2							
ANA	POIST (2							

### Environmental Field Surveys Wetland Photo Page



Wetland data point wnok010f\_w2 facing north.



Wetland data point wnok010f\_w2 facing west.

Project/Site:SERP	City/County: Voi Towa 4	Sampling Date: 09/18/201
Applicant/Owner: DOMINION	enty, country.	State: VA Sampling Point: WNOKOIC
Investigator(s): J. JWETTLER	Section, Township, Range:	NA Sampling Point:
Landform (hillslope, terrace, etc.): FLOODPLATA	Local relief (concave, convex, non	
		3/5/5/2011/2
Soil Map Unit Name: MILLO ALWUTAL	LAND (MA)	24
Are climatic / hydrologic conditions on the site typica		
Are Vegetation, Soil, or Hydrology	<b>-</b>	If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology	· · ·	Circumstances" present? Yes No
		xplain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site	map snowing sampling point locatio	ns, transects, important features, etc.
Hydrophytic Vegetation Present? Yes	No Is the Sampled Area	
Hydric Soil Present? Yes	within a Wetland?	Yes_ O No O
Wetland Hydrology Present? Yes	No	
Remarks: POINT COLATED IN F	DOODLAEN ASSOCIATION WITH	
LOLATED ON EDGE OF PF	D WETLAND IN PEMIC U	JETLAND.
, . ·		
PHOTO; 100-0043 to 0047		
HYDROLOGY		
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; che	ck all that apply)	Surface Soil Cracks (B6)
	True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)	1	Drainage Patterns (B10)
Saturation (A3)	Oxidized Rhizospheres on Living Roots (C3)	Moss Trim Lines (B16).
Water Marks (B1)	Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reduction in Tilled Soils (C6)	Crayfish Burrows (C8)
Drift Deposits (B3)	Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)		Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)		Shallow Aquitard (D3)
Water-Stained Leaves (B9)	<b>.</b>	Microtopographic Relief (D4)
Aquatic Fauna (B13)		FAC-Neutral Test (D5)
Field Observations:	,	
Surface Water Present? Yes No	Depth (inches):	
Water Table Present? Yes V No C	_ Deput (inches)	
Saturation Present? Yes O No C (includes capillary fringe)	Depth (inches): Wetland Hy	ydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring	well, aerial photos, previous inspections), if avail	able:
NA		
Remarks: SEVILAL PRIMARY AN	) SECONDARY INDICATURE OF	HYDROLOLY PREJENT
	•	32701.

7010	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 (R)	% Cover Species? Status	Number of Dominant Species 4/
1. BÉTULA NIGHA	30 Y FACW	That Are OBL, FACW, or FAC: (A)
2. ALER RUBEUM	20 Y FAL	* *
3.		Total Number of Dominant
4		Species Across All Strata: (B)
		Percent of Dominant Species 100
5		That Are OBL, FACW, or FAC: (A/B)
6		
7	_ <u></u>	Prevalence Index worksheet:
, -/ a	# 50 = Total Cover 25/10	Total % Cover of: Multiply by:
Sapling Stratum (Plot size: 1512 )	<u> </u>	OBL species x 1 =
1. SALIX NICKA	5 X 086	FACW species x 2 = _1
2		FAC species x 3 = 1
3. NA		FACU species x 4 =
1		UPL species x 5 =
4	- <del> </del>	
5		Column Totals: 0 (A) 5 (B)
6		Prevalence Index = B/A =
7		
1510	= Total Cover	Hydrophytic Vegetation Indicators:
Shrub Stratum (Plot size: 15'R)	· -	1- Rapid Test for Hydrophytic Vegetation
1. SALFA NILAA	5 9 031	2 - Dominance Test is >50%
2		3 - Prevalence Index is ≤3.0 <sup>1</sup>
3.		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
		data in Remarks or on a separate sheet)
4		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5		
6	- <del> </del>	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
7		be present, unless disturbed or problematic.
~(0	e 5 = Total Cover	Definitions of Five Vegetation Strata:
Herb Stratum (Plot size: 5 'R )		Definitions of Five vegetation Strata.
1. LEERISA OKTIOIDES	150 DBC	Tree – Woody plants, excluding woody vines,
2. PERSUALIA SALITTATA	10 M 63L	approximately 20 ft (6 m) or more in height and 3 in.
3		(7.6 cm) or larger in diameter at breast height (DBH).
4.		Sapling - Woody plants, excluding woody vines,
5.		approximately 20 ft (6 m) or more in height and less
		than 3 in. (7.6 cm) DBH.
6	- <del> </del>	Shrub – Woody plants, excluding woody vines,
7	- <del>   </del>	approximately 3 to 20 ft (1 to 6 m) in height.
8.		Harle All back and described to the last
9		Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
10		plants, except woody vines, less than approximately
11	· 🔲	3 ft (1 m) in height.
. 12.		Weederdee Allerederdee and State of the Stat
		Woody vine - All woody vines, regardless of height.
Woody Vine Stratum (Plot size: 30' K )	( / lar) - Total Cover Col /27	
	9/60 = Total Cover80/32	
1 NA	$\frac{\sqrt[9]{b0}}{\sqrt{50}} = \text{Total Cover } 80/32$	
1. NA	<u>\$160</u> = Total Cover80/32	
2.		
2		
2		Hydrophytic
2		
2		Hydrophytic Vegetation
2	0 = Total Cover	Hydrophytic Vegetation
2	0 = Total Cover	Hydrophytic Vegetation
2	0 = Total Cover	Hydrophytic Vegetation
2	0 = Total Cover	Hydrophytic Vegetation
2	0 = Total Cover	Hydrophytic Vegetation

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•	11		

Sampling Point: WNONDIDE W

	cription: (Describe t	o the de	pth neede	ed to docun	nent the i	indicator	or confirm	the absence	of indicate	ors.)	
Depth (inches)	Matrix Color (moist)	%	Color	Redox (moist)	x Feature		2				
0-3	HEY 1 5/104	80	10 72		20	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks	
			70 /70	3/6	-20		PZ/M	710	COMM	WORLAN	56
3-20	G1871 5/108	100		· ·				591dy	SIUT C	W/ORLAN	
	**** <u></u>	· in the same		197	or the second of		37	1 L L C			
				14/11/20				- A.			· · · ·
								<del></del>	12.4		- 1.50
				202	1 ———					4,75	-
		<del></del>	-						-	-	
				<u> </u>							
	* ,							<b>*</b>			
<sup>1</sup> Type: C=C	Concentration, D=Depl	etion, RM	I=Reduced	d Matrix, MS	S=Masked	Sand Gra	ins.	<sup>2</sup> Location: Pl	=Pore Linin	ng M=Matrix	
Hydric Soil	Indicators:									oblematic Hydric	Soils <sup>3</sup> :
Histoso	l (A1)			ark Surface	(S7)					A10) (MLRA 147)	
	pipedon (A2)		, P	olyvalue Bel	low Surfa	ce (S8) <b>(M</b>	LRA 147,			Redox (A16)	
- Promoted	listic (A3)			hin Dark Su			47, 148)		(MLRA 14	7, 148)	
	en Sulfide (A4)			oamy Gleye		F2)		<u> </u>	Piedmont Flo	odplain Soils (F19	9)
	ed Layers (A5)			epleted Mat					(MLRA 13		
	uck (A10) <b>(LRR N)</b> ed Below Dark Surface	(411)		edox Dark S						Material (TF2)	
	ark Surface (A12)	(ATT)		epleted Dar edox Depre			Q 14			Dark Surface (TF	12)
	Mucky Mineral (S1) (L	RR N.		on-Mangane				П	λιner (Expiai	n in Remarks)	
	A 147, 148)		<u> </u>	MLRA 136		00 (1 12) (2					
Sandy	Gleyed Matrix (S4)		Ūυ	mbric Surfac	,	MLRA 13	6, 122)	3Inc	licators of hy	drophytic vegetat	ion and
Sandy I	Redox (S5)			iedmont Flo						ology must be pre	
	d Matrix (S6)									bed or problemation	
TA .	Layer (if observed):									*.	
Type:										-/	_
Depth (in	nches): NA	_						Hydric Soil	Present?	Yes <u>Ø</u> N	。 <u> </u>
Remarks:											
							/_	_			₫
		×				/			1		
k .								PFOIC	/ .		$\prec$
W.							ONOIOA	12FO1-			
$\int$				CITED	•	· NIN	ONON	1	/	. /	
1.			F	CONESTED		<b>~</b>	· /	• •	<i>'</i> .	4	<b>1</b> 1
/150 FL		_			T		/ .v	O myork,	106-M	r /	1
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							X.	/.		K/ / U4	PLAND
							•	KOKOK	-	1/5	LOPE
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<b>A</b>	-					<b>\</b>				17	
4									•		
'.					/	,				, _	
N.											
1-					<i>(</i>						
										,	



Wetland data point wnok010e\_w facing North



Wetland data point wnok010e\_w facing South



Wetland data point wnok010e\_w soil sample

Project/Site:	SERP		City	/County:	NOTOWA	+ Y		- Land	8/18/70
Applicant/Owner: _	DOMINION					State: 1			
Investigator(s):	J. SWEITCH	R	Sec	tion, Township	Range:	<i>NA</i>	S:	ampling Point:	WNOKOIO
Landform (hillslope	, terrace, etc.): TEA	LaACE		elief (concave,			15		0-1
Subregion (LRR or	MLRA): LRRP	Lat: 3	7. 181227	395	Long: 78				(%): 0-1
Soil Map Unit Name	: MEXED ALL	JUZAL LAN			Long				NAO 1983
Are climatic / hydro	logic conditions on the s			Van 🙆		NWI cla	ssification:	NA	
Are Vegetation	, Soil, or Hyd	trology : si	anificantly dist					_	
Are Vegetation	, Soil, or Hyd		aturally problem				15	it? Yes 🙋	_ No _O_
	FINDINGS - Atta				(If needed, ex nt location	kplain any ai ns. transa	nswers in F	Remarks.)	turos ete
Hydrophytic Vege									ures, etc.
Hydric Soil Preser		Yes No Yes O No		Is the Sam				₹ I , e	1
Wetland Hydrolog		Yes O No		within a W	etland?	Yes _	<u> </u>	lo _ <b>®</b>	, ,
Remarks: POI	UT EITA BLISHED			TERRA	CE IN	DECIO	Voul .	WOODEAN	10
,					,				
	*								
PHOTOS 10	0-0056 to 0	olo	,						
HYDROLOGY	1			<u></u>					
Wetland Hydrolo	av Indicators:								
Leave S	(minimum of one is req	uired: check all th	of applic		<u>.</u>			minimum of two	o required)
Surface Wate				(D44)			Soil Crack		
High Water T			Aquatic Plants ogen Sulfide Od					d Concave Sur	face (B8)
Saturation (A:			zed Rhizosphe		L Roote (C3)		e Patterns im Lines (E		
Water Marks	(B1)		ence of Reduce		[			Table (C2)	
Sediment Der			nt Iron Reducti		oils (C6)	_	Burrows (		* 1
Drift Deposits			Muck Surface (			_	•	on Aerial Imag	ery (C9)
Algal Mat or 0	, ,	Othe	(Explain in Re	marks)	[			d Plants (D1)	
Iron Deposits	(เธอ) sible on Aerial Imagery (	D7\			ļ		phic Positi	, ,	
Water-Staine		B7)			ļ		Aquitard (I		
Aquatic Faun					L I		ographic F	. ,	•
Field Observatio					. L	FAC-Ne	utral Test (	(D2)	
Surface Water Pre		No 🕑 Dep	th (inches):	NA					
Water Table Pres	ent? Yes O	<b>A</b>	th (inches):	NA					
Saturation Presen		No <b>@</b> Dep	th (inches):	NA	Wetland Hy	drology Pr	esent? Y	es l	No V
(includes capillary  Describe Recorde	fringe) d Data (stream gauge, r	monitoring well a	arial photos pr	ovious inense					
,	NA	nomtoring well, a	eriai priotos, pr	evious irispec	uons), it avail	able:			
Remarks:		e of to Ail	N 114 045	1.6.1					, .
No	INDICATORS O	F WETCAN	יטוע זידן ע	LOG 45					
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				* 10.0					

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Tree Stratum (Plot size: 30 / R )	Absolute		t Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)		Species'		Number of Dominant Species 7
1. ALER RUBRUM	50	<u> </u>	FAC	That Are OBL, FACW, or FAC: (A)
2. LIQUIDAMBAR STYRACIFULA	40	1	FAC	
3. QUERLUS RUBRA	30	N	FACU	Total Number of Dominant
10.11		- marks		Species Across All Strata: (B)
4. CARPINUS CAROLINIANA	<u> 30</u>	$\mathcal{L}$	FAC	ab 70
5. LIRINDENDRON TULLPIFERA	20	N	FACU	Percent of Dominant Species /8
			77700	That Are OBL, FACW, or FAC: (A/B)
6				Described to the formation of the format
7			* 4	Prevalence Index worksheet:
F-1	0170	= Total Co	ver 85/34	Total % Cover of: Multiply by:
Sapling Stratum (Plot size: / / C )	<u> </u>	- Total Oo	100//	OBL species x 1 = 1
1. CORNVI FLOREDA	10	4	EN:1	
			FALU	FACW species x 2 = _1
2. CARPINI CAZULINIANA	_20_	Y	FAC	FAC species x 3 = _1
3. FRAXINUI PENLYLVANTA	.5	W	FACW	FACU species x 4 = _1
4				UPL species x 5 = 1
5				Column Totals: 0 (A) 5 (B)
6				
		-		Prevalence Index = B/A =
7:			<u> </u>	
. 1.	035	= Total Co	ver 18 / 7	Hydrophytic Vegetation Indicators:
Shrub Stratum (Plot size: 15 R				1- Rapid Test for Hydrophytic Vegetation
1. CARPINUS CAROLINIANA	60	Y	FAC	2 - Dominance Test is >50%
		M	FAC	
2. ASTMENA TRECOBA			rac.	3 - Prevalence Index is ≤3.0 <sup>1</sup>
3.		- 1 -4	F	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
				data in Remarks or on a separate sheet)
4		-	<del></del>	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5		<u></u>	<u> </u>	- Troblemade Tydrophlydd Vegetadolf (Explain)
6				
				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
7.	- 184			be present, unless disturbed or problematic.
cl <sub>2</sub>	065	= Total Co	ver <i>33 15</i>	Definitions of Five Vegetation Strata:
Herb Stratum (Plot size: 51R)			,	Definitions of Five Vegetation Strata: .
/	20	= Total Co	FAW	
1. CAREX DE GRAVILLIMA			,	Tree – Woody plants, excluding woody vines,
1. CAREX DE GRAVILLUIMA 2. EMPLIERA SEMPERULAENS	2.0		FAW	
1. CAREX SE GRAVILLIMA 2. CONTERA SEMPERATURENS 3. LONTERA JAPONILA			FAL	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
1. CAREX DE GRAVILLUIMA 2. EMPLIERA SEMPERULAENS	20		FAW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines,
1. CARET DE GRAVILLUIMA 2. LINTUERA SEMPERATARNS 3. LONTIGRA JAPONILA 4. CARPINU CAROLINIANA	20 -5 -40	₩     \   \   \	FAL FAL	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
1. CAREX SE GRAVILLIMA 2. CONTERA SEMPERATURENS 3. LONTERA JAPONILA	20		FAL	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines,
1. CARET DE GRAVILLUIMA 2. LINTUERA SEMPERATARNS 3. LONTIGRA JAPONILA 4. CARPINU CAROLINIANA	20 -5 -40	₩     \   \   \	FAL FAL	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
1. CARET DE GRAVILLUIMA 2. LYPTLIERA SEMPERULAENS 3. LONSIERA JAPON TLA 4. CARPINU CAROLINIANA 5. ARILAKMA TRYPHYLIUM 6.	20 -5 -40	₩     \   \   \	FAL FAL	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines,
1. CARET DE GRAVILLUIMA 2. LINTUERA SEMPERATARNS 3. LONTIGRA JAPONILA 4. CARPINU CAROLINIANA	20 -5 -40	₩     \   \   \	FAL FAL	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
1. CARET DE GRAVILLUIMA 2. LYPTLIERA SEMPERULAENS 3. LONSIERA JAPON TLA 4. CARPINU CAROLINIANA 5. ARILAKMA TRYPHYLIUM 6.	20 -5 -40	₩     \   \   \	FAL FAL	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
1. CARET DE GRAVILLUIMA 2. LYPTLIERA SEMPERULAENS 3. LONSIERA JAPON TLA 4. CARPINU CAROLINIANA 5. ARILAKMA TRYPHYLIUM 6.	20 -5 -40	₩     \   \   \	FAL FAL	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including
1. CARET DE GRAVILLUMA 2. CONTIGRA SEMPERATARNS 3. LONTIGRA JAPON TLA 4. CARPINU CAROLINIANA 5. ARI SAKMA TRYPHYLIUM 6. 7. 8.	20 -5 -40	₩     \   \   \	FAL FAL	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
1. CAREX SE GRAVILLIMA 2. CONTIGNA SEMPERATURENS 3. LONTIGNA JAPONICA 4. CARPINU CAROLINIANA 5. ARILAMA TRYPHYLIUM 6. 7. 8. 9.	20 -5 -40	₩     \   \   \	FAL FAL	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately
1. CARET DE GRAVILLUMA 2. CONTIGRA SEMPERATARNS 3. LONTIGRA JAPON TLA 4. CARPINU CAROLINIANA 5. ARI SAKMA TRYPHYLIUM 6. 7. 8.	20 -5 -40	₩     \   \   \	FAL FAL	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
1. CAREX SE GRAVILLIMA 2. CONTIGNA SEMPERATURENS 3. LONTIGNA JAPONICA 4. CARPINU CAROLINIANA 5. ARILAMA TRYPHYLIUM 6. 7. 8. 9.	20 5 40 5		FAC FAC FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
1. CARET SE GRAVILLIMA 2. CHRITERA SEMPERATARNS 3. LONTERA JAPONICA 4. CARPINU CAROLINIANA 5. ARIGAMA TRYPHYLIUM 6. 7. 8. 9. 10. 11.	20 5 40 5		FAC FAC FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately
1. CAREX SE GRAVILLIMA 2. CONTIERA SEMPERATURANS 3. LONTIERA JAPON ILA 4. CARPINU CAROLINIANA 5. ARILAKMA TRYPHYLIUM 6. 7. 8. 9. 10. 11.	20 5 40 5		FAL FAL	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
1. CARET DE GRAVILLUMA 2. CARPINA SEMPERATALAS 3. LONTIERA JAPONTICA 4. CARPINA CAROLINIANA 5. ARI (AKMA TRYPHYLIUM 6	5 40 5		FAC FAC FAC FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
1. CARET SE GRAVILLIMA 2. CARPINA SEMPERATALIS 3. LONTERA JAPONTLA 4. CARPINA CAROLINIANA 5. ARI (AKMA TRYPHYLIUM 6. 7. 8. 9. 10. 11. 12. Woody Vine Stratum (Plot size: 30 R) 1. SMFLAS RS JUNDIFULTA	20 5 40 5		FAC FAC FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
1. CAREX SE GRAVILLIMA 2. CHRITERA SEMPERATARIA 3. LONTERA JAPONILA 4. CARPINU CAROLINIANA 5. ARI (ALMA TRYPHYLIUM 6. 7. 8. 9. 10. 11. 12. Woody Vine Stratum (Plot size: 30'R) 1. SMIMA RIUNDIFULTA 2. CONTLINA  2. CONTLINA  2. CONTLINA  2. CONTLINA  3. CONTLINA  4. CONTLINA  5. CONTLINA  5. CONTLINA  7.	5 40 5		FAC FAC FAC FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
1. CAREX SE GRAVILLIMA 2. CHRITERA SEMPERATARIA 3. LONTERA JAPONILA 4. CARPINU CAROLINIANA 5. ARI (ALMA TRYPHYLIUM 6. 7. 8. 9. 10. 11. 12. Woody Vine Stratum (Plot size: 30'R) 1. SMIMA RIUNDIFULTA 2. CONTLINA  2. CONTLINA  2. CONTLINA  2. CONTLINA  3. CONTLINA  4. CONTLINA  5. CONTLINA  5. CONTLINA  7.	20 5 40 5		FAL FAL FAL FAC FACV	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
1. CARET SE GRAVILLIMA 2. CARPINA SEMPERATALIS 3. LONTERA JAPONTLA 4. CARPINA CAROLINIANA 5. ARI (AKMA TRYPHYLIUM 6. 7. 8. 9. 10. 11. 12. Woody Vine Stratum (Plot size: 30 R) 1. SMFLAS RS JUNDIFULTA	5 40 5		FAC FAC FAC FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.
1. CAREX SE GRAVILLIMA 2. CHRITERA SEMPERATARIA 3. LONTERA JAPONILA 4. CARPINU CAROLINIANA 5. ARI (ALMA TRYPHYLIUM 6. 7. 8. 9. 10. 11. 12. Woody Vine Stratum (Plot size: 30'R) 1. SMIMA RIUNDIFULTA 2. CONTLINA  2. CONTLINA  2. CONTLINA  2. CONTLINA  3. CONTLINA  4. CONTLINA  5. CONTLINA  5. CONTLINA  7.	20 5 40 5		FAL FAL FAL FAC FACV	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.
1. CAREX SE GRAVILLIMA 2. CHRITERA SEMPERATARIA 3. LONTERA JAPONILA 4. CARPINU CAROLINIANA 5. ARI (ALMA TRYPHYLIUM 6. 7. 8. 9. 10. 11. 12. Woody Vine Stratum (Plot size: 30'R) 1. SMIMA RIUNDIFULTA 2. CONTLINA  2. CONTLINA  2. CONTLINA  2. CONTLINA  3. CONTLINA  4. CONTLINA  5. CONTLINA  5. CONTLINA  7.	20 5 40 5		FAL FAL FAL FAC FACV	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.  Hydrophytic Vegetation
1. CAREX SE GRAVILLIMA 2. CHRITERA SEMPERATARIA 3. LONTERA JAPONILA 4. CARPINU CAROLINIANA 5. ARI (ALMA TRYPHYLIUM 6. 7. 8. 9. 10. 11. 12. Woody Vine Stratum (Plot size: 30'R) 1. SMIMA RIUNDIFULTA 2. CONTLINA  2. CONTLINA  2. CONTLINA  2. CONTLINA  3. CONTLINA  4. CONTLINA  5. CONTLINA  5. CONTLINA  7.	20 \$ 40 5 	Total Co	FAL FALL  Ver 35/14  FAL  FAL	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.  Hydrophytic Vegetation
1. CAREX SE GRAVILLIMA 2. CONTIGNA SEMPERATORNS 3. LONTIGNA JAPON ILA 4. CARPINU CAROLINIANA 5. ARI LAKMA TRYPHYLIUM 6. 7. 8. 9. 10. 11. 12. Woody Vine Stratum (Plot size: 30 R) 1. SMFLAI RIPUDI FULTA 2. CONTIGNA TRYPHYLIUM 4. 5. CONTIGNA TRYPHYLIUM 6. 6. 7. 8. 9. 10. 11. 12. 12. 13. VITTES ROTUNDI FOUCA 4. 5.	20 5 40 5 		FAL FALL  Ver 35/14  FAL  FAL	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.  Hydrophytic Vegetation
1. CAREX SE GRAVILLIMA 2. CARPINA SEMPERATORNS 3. LONTICA JAPON ILA 4. CARPINA CAROLINIANA 5. ARI (AKMA TRYPHYLIUM 6	20 5 40 5 70 5	Total Co	FAL FALL  Ver 35/14  FAL  FAL	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.  Hydrophytic Vegetation
1. CAREX SE GRAVILLIMA 2. CARPINA SEMPERATORNS 3. LONTICA JAPON ILA 4. CARPINA CAROLINIANA 5. ARI (AKMA TRYPHYLIUM 6	20 5 40 5 70 5	Total Co	FAL FALL  Ver 35/14  FAL  FAL	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.  Hydrophytic Vegetation
1. CAREX SE GRAVILLIMA 2. CONTIGNA SEMPERATORNS 3. LONTIGNA JAPON ILA 4. CARPINU CAROLINIANA 5. ARI LAKMA TRYPHYLIUM 6. 7. 8. 9. 10. 11. 12. Woody Vine Stratum (Plot size: 30 R) 1. SMFLAI RIPUDI FULTA 2. CONTIGNA TRYPHYLIUM 4. 5. CONTIGNA TRYPHYLIUM 6. 6. 7. 8. 9. 10. 11. 12. 12. 13. VITTES ROTUNDI FOUCA 4. 5.	20 5 40 5 70 5	Total Co	FAL FALL  Ver 35/14  FAL  FAL	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.  Hydrophytic Vegetation
1. CAREX SE GRAVILLIMA 2. CARPINA SEMPERATORNS 3. LONTICA JAPON ILA 4. CARPINA CAROLINIANA 5. ARI (AKMA TRYPHYLIUM 6	20 5 40 5 70 5	Total Co	FAL FALL  Ver 35/14  FAL  FAL	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.  Hydrophytic Vegetation
1. CAREX SE GRAVILLIMA 2. CARPINA SEMPERATORNS 3. LONTICA JAPON ILA 4. CARPINA CAROLINIANA 5. ARI (AKMA TRYPHYLIUM 6	20 5 40 5 70 5	Total Co	FAL FALL  Ver 35/14  FAL  FAL	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.  Hydrophytic Vegetation
1. CAREK SE GRAVILVIMA 2. LONTIERA SEMPERATURENS 3. LONTIERA JAPON ILA 4. CARPINU CAROLINIANA 5. ARI (AKMA TRYPHYLIUM 6	20 5 40 5 70 5	Total Co	FAL FALL  Ver 35/14  FAL  FAL	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.  Hydrophytic Vegetation

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inches)	Color (moist)	%	Color (moist)	dox Features %	_Type <sup>1</sup>	Loc <sup>2</sup>	Texture	_		
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4-20 1	10 4R 5/6	100					LOAMY	corre		
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ype: C=Cond ydric Soil Inc	centration, D=Depl	etion, RM=R	Reduced Matrix,	MS=Masked	Sand Gra	ins. <sup>2</sup>	<sup>2</sup> Location: PL=F	ore Lining, M	=Matrix.	
Histosol (A			Dark Surfa	00 (87)				rs for Proble		
Histic Epip				ce (S7) Below Surfac	ce (S8) (MI	RΔ 147 1	148) 2 cm	Muck (A10)	(MLRA 14	17)
Black Histic	ic (A3)		Thin Dark	Surface (S9)	(MLRA 14	17, 148)		st Prairie Red ILRA 147, 14		
	Sulfide (A4)		Loamy Gle	yed Matrix (I	=2)			mont Floodpl		F19)
	_ayers (A5) < (A10) (LRR N)		Depleted N				/N	ILRA 136, 14	17)	
	R (A10) (LRR N) Below Dark Surface	Δ (Δ11)		k Surface (F ark Surface				Parent Mater		
	Surface (A12)	٠ (ج٠١)				•		Shallow Dar		(TF12)
I IIICK Dark	(Surface (ATZ)		I Redox Der	ressions (F8	3)		· I I Othe	or (Explain in	D = == = = \	
Sandy Muc	cky Mineral (S1) (L	RR N,		ressions (F8 anese Masse		RR N,	Othe	er (Explain in	Remarks)	
Sandy Muc	cky Mineral (S1) (L 147, 148)	RR N,	Iron-Manga	anese Masse 136)	es (F12) (L		Othe	er (Explain in	Remarks)	
Sandy Muc MLRA 1 Sandy Gle	cky Mineral (S1) (L 147, 148) eyed Matrix (S4)	RR N,	Iron-Manga MLRA Umbric Su	anese Masse 1 <b>36)</b> rface (F13) (	es (F12) (L MLRA 136	5, 122)	<sup>3</sup> Indica	tors of hydrop	ohytic vege	
Sandy Muc MLRA 1 Sandy Gled Sandy Red	cky Mineral (S1) (L 147, 148) eyed Matrix (S4) dox (S5)	RR N,	Iron-Manga MLRA Umbric Su	anese Masse 136)	es (F12) (L MLRA 136	5, 122)	<sup>3</sup> Indica 3) wetl	tors of hydrop and hydrology	ohytic vege y must be	present,
Sandy Muc MLRA 1 Sandy Gley Sandy Red Stripped M	cky Mineral (S1) (L 147, 148) eyed Matrix (S4) dox (S5)	RR N,	Iron-Manga MLRA Umbric Su	anese Masse 1 <b>36)</b> rface (F13) (	es (F12) (L MLRA 136	5, 122)	<sup>3</sup> Indica 3) wetl	tors of hydrop	ohytic vege y must be	present,
Sandy Muc MLRA 1 Sandy Gle Sandy Red Stripped M estrictive Lay	cky Mineral (S1) (L 147, 148) eyed Matrix (S4) dox (S5) Matrix (S6) eyer (if observed):	RR N,	Iron-Manga MLRA Umbric Su	anese Masse 1 <b>36)</b> rface (F13) (	es (F12) (L MLRA 136	5, 122)	<sup>3</sup> Indica 3) wetl	tors of hydrop and hydrology	ohytic vege y must be	present,
Sandy Muc MLRA 1 Sandy Gle Sandy Red Stripped M Strictive Lav	cky Mineral (S1) (L 147, 148) eyed Matrix (S4) dox (S5) Matrix (S6) eyer (if observed):	RR N,	Iron-Manga MLRA Umbric Su	anese Masse 1 <b>36)</b> rface (F13) (	es (F12) (L MLRA 136	5, 122)	<sup>3</sup> Indica 3) wetl	tors of hydrop and hydrology ss disturbed o	phytic vege y must be p or problem	present,
Sandy Muc MLRA 1 Sandy Gle Sandy Red Stripped M strictive Lay Type: Depth (inches	cky Mineral (S1) (L 147, 148) eyed Matrix (S4) dox (S5) Matrix (S6) eyer (if observed): NA es): NA		Iron-Manga MLRA Umbric Su Piedmont I	anese Masse 136) rface (F13) ( Floodplain So	MLRA 136	5, 122) MLRA 148	<sup>3</sup> Indica 3) wetl: unle Hydric Soil Pr	tors of hydrop and hydrology ss disturbed o esent? Ye	ohytic vege y must be por problem	present, atic.
Sandy Muc MLRA 1 Sandy Gle Sandy Red Stripped M estrictive Lay Type: Depth (inche	cky Mineral (S1) (L 147, 148) eyed Matrix (S4) dox (S5) Matrix (S6) eyer (if observed):		Iron-Manga MLRA Umbric Su	anese Masse 136) rface (F13) ( Floodplain So	es (F12) (L MLRA 136	5, 122) MLRA 148	<sup>3</sup> Indica 3) wetl unle	tors of hydrop and hydrology ss disturbed o	phytic vege y must be p or problem	present, atic.
Sandy Muc MLRA 1 Sandy Gle Sandy Red Stripped M estrictive Lay Type: Depth (inche	cky Mineral (S1) (L 147, 148) eyed Matrix (S4) dox (S5) Matrix (S6) eyer (if observed): NA es): NA	na of	Iron-Manga MLRA Umbric Su Piedmont I	anese Masse 136) rface (F13) ( Floodplain So	MLRA 136	5, 122) MLRA 148	<sup>3</sup> Indica 3) wetl: unle Hydric Soil Pr	tors of hydrop and hydrology ss disturbed o esent? Ye	ohytic vege y must be por problem	present, atic.
Sandy Muca MLRA 1 Sandy Gley Sandy Red Stripped M estrictive Lay Type: Depth (inche	cky Mineral (S1) (L 147, 148) eyed Matrix (S4) dox (S5) Matrix (S6) eyer (if observed): NA es): NA		Iron-Manga MLRA Umbric Su Piedmont I	anese Masse 136) rface (F13) ( Floodplain So	MLRA 136	5, 122) MLRA 148	<sup>3</sup> Indica 3) wetl: unle Hydric Soil Pr	tors of hydrop and hydrology ss disturbed o esent? Ye	ohytic vege y must be por problem	present, atic.
Sandy Muc MLRA 1 Sandy Gle Sandy Red Stripped M estrictive Lay Type: Depth (inche	cky Mineral (S1) (L 147, 148) eyed Matrix (S4) dox (S5) Matrix (S6) eyer (if observed): NA es): NA	na of	Iron-Manga MLRA Umbric Su Piedmont I	anese Masse 136) rface (F13) ( Floodplain So	MLRA 136	5, 122) MLRA 148	<sup>3</sup> Indica 3) wetl: unle Hydric Soil Pr	tors of hydrop and hydrology ss disturbed o esent? Ye	ohytic vege y must be por problem	present, atic.
Sandy Muc MLRA 1 Sandy Gle Sandy Red Stripped M estrictive Lay Type: Depth (inche	cky Mineral (S1) (L 147, 148) eyed Matrix (S4) dox (S5) Matrix (S6) eyer (if observed): NA es): NA	na of	Iron-Manga MLRA Umbric Su Piedmont I	anese Masse 136) rface (F13) ( Floodplain So	MLRA 136	5, 122) MLRA 148	<sup>3</sup> Indica 3) wetl: unle Hydric Soil Pr	tors of hydrop and hydrology ss disturbed o esent? Ye	ohytic vege y must be por problem	present, atic.
Sandy Muc MLRA 1 Sandy Gle Sandy Red Stripped M estrictive Lay Type: Depth (inche	cky Mineral (S1) (L 147, 148) eyed Matrix (S4) dox (S5) Matrix (S6) eyer (if observed): NA es): NA	na of	Iron-Manga MLRA Umbric Su Piedmont I	anese Masse 136) rface (F13) ( Floodplain So	MLRA 136	5, 122) MLRA 148	<sup>3</sup> Indica 3) wetl: unle Hydric Soil Pr	tors of hydrop and hydrology ss disturbed o esent? Ye	ohytic vege y must be por problem	present, atic.
Sandy Muc MLRA 1 Sandy Gle Sandy Red Stripped M estrictive Lay Type: Depth (inche	cky Mineral (S1) (L 147, 148) eyed Matrix (S4) dox (S5) Matrix (S6) eyer (if observed): NA es): NA	na of	Iron-Manga MLRA Umbric Su Piedmont I	anese Masse 136) rface (F13) ( Floodplain So	MLRA 136	5, 122) MLRA 148	<sup>3</sup> Indica 3) wetl: unle Hydric Soil Pr	tors of hydrop and hydrology ss disturbed o esent? Ye	ohytic vege y must be por problem	present, atic.
Sandy Muc MLRA 1 Sandy Gle Sandy Red Stripped M estrictive Lay Type: Depth (inche	cky Mineral (S1) (L 147, 148) eyed Matrix (S4) dox (S5) Matrix (S6) yer (if observed): NA es): NA WO JNOTCA	nru of	Iron-Manga MLRA Umbric Su Piedmont I	anese Masse 136) face (F13) ( Floodplain So	es (F12) (L MLRA 136 bils (F19) (	1, 122) MLRA 148	³Indica 3) wetl: unle  Hydric Soil Pr	tors of hydrop and hydrology ss disturbed of esent? Ye	ohytic vege y must be p or problem s	present, atic.
Sandy Muc MLRA 1 Sandy Gle Sandy Red Stripped M estrictive Lay Type: Depth (inche	cky Mineral (S1) (L 147, 148) eyed Matrix (S4) dox (S5) Matrix (S6) yer (if observed): NA es): NA WO JNOTCA	na of	Iron-Manga MLRA Umbric Su Piedmont I	anese Masse 136) face (F13) ( Floodplain So	es (F12) (L MLRA 136 bils (F19) (	5, 122) MLRA 148	³Indica 3) wetl: unle  Hydric Soil Pr	tors of hydrop and hydrology ss disturbed o esent? Ye	ohytic vege y must be p or problem s	present, atic.
Sandy Muc MLRA 1 Sandy Gle Sandy Red Stripped M estrictive Lay Type: Depth (inche	cky Mineral (S1) (L 147, 148) eyed Matrix (S4) dox (S5) Matrix (S6) yer (if observed): NA es): NA WO JNOTCA	nes of	Iron-Manga MLRA Umbric Su Piedmont I	anese Masse 136) face (F13) ( Floodplain So	es (F12) (L MLRA 136 bils (F19) (	1, 122) MLRA 148	³Indica 3) wetl: unle  Hydric Soil Pr	tors of hydrop and hydrology ss disturbed of esent? Ye	ohytic vege y must be p or problem s	present, atic.
Sandy Muc MLRA 1 Sandy Gle Sandy Red Stripped M estrictive Lay Type: Depth (inche	cky Mineral (S1) (L 147, 148) eyed Matrix (S4) dox (S5) Matrix (S6) yer (if observed): NA es): NA WO JNOTCA	nes of	Iron-Manga MLRA Umbric Su Piedmont I	anese Masse 136) face (F13) ( Floodplain So	es (F12) (L MLRA 136 bils (F19) (	1, 122) MLRA 148	³Indica 3) wetl: unle  Hydric Soil Pr	tors of hydrop and hydrology ss disturbed of esent? Ye	ohytic vege y must be p or problem s	present, atic.
Sandy Muc MLRA 1 Sandy Gle Sandy Red Stripped M estrictive Lay Type: Depth (inche	cky Mineral (S1) (L 147, 148) eyed Matrix (S4) dox (S5) Matrix (S6) yer (if observed): NA es): NA WO JNOTCA	nes of	Iron-Manga MLRA Umbric Su Piedmont I	anese Masse 136) face (F13) ( Floodplain So	es (F12) (L MLRA 136 bils (F19) (	1, 122) MLRA 148	³Indica 3) wetl: unle  Hydric Soil Pr	tors of hydrop and hydrology ss disturbed of esent? Ye	ohytic vege y must be p or problem s	present, atic.
Sandy Muc MLRA 1 Sandy Gle Sandy Red Stripped M estrictive Lay Type: Depth (inche	cky Mineral (S1) (L 147, 148) eyed Matrix (S4) dox (S5) Matrix (S6) yer (if observed): NA es): NA WO JNOTCA	nes of	Iron-Manga MLRA Umbric Su Piedmont I	anese Masse 136) face (F13) ( Floodplain So	es (F12) (L MLRA 136 bils (F19) (	1, 122) MLRA 148	³Indica 3) wetl: unle  Hydric Soil Pr	tors of hydrop and hydrology ss disturbed of esent? Ye	ohytic vege y must be p or problem s	present, atic.
Sandy Muc MLRA 1 Sandy Gle Sandy Red Stripped M estrictive Lay Type: Depth (inche	cky Mineral (S1) (L 147, 148) eyed Matrix (S4) dox (S5) Matrix (S6) yer (if observed): NA es): NA WO JNOTCA	nes of	Iron-Manga MLRA Umbric Su Piedmont I	anese Masse 136) face (F13) ( Floodplain So	es (F12) (L MLRA 136 bils (F19) (	1, 122) MLRA 148	³Indica 3) wetl: unle  Hydric Soil Pr	tors of hydrop and hydrology ss disturbed of esent? Ye	ohytic vege y must be p or problem s	present, atic.
Sandy Muc MLRA 1 Sandy Gle Sandy Red Stripped M estrictive Lay Type: Depth (inche	cky Mineral (S1) (L 147, 148) eyed Matrix (S4) dox (S5) Matrix (S6) yer (if observed): NA es): NA WO JNOTCA	nes of	Iron-Manga MLRA Umbric Su Piedmont I	anese Masse 136) face (F13) ( Floodplain So	es (F12) (L MLRA 136 bils (F19) (	1, 122) MLRA 148	³Indica 3) wetl: unle  Hydric Soil Pr	tors of hydrop and hydrology ss disturbed of esent? Ye	ohytic vege y must be p or problem s	present, atic.
Sandy Muc MLRA 1 Sandy Gle Sandy Red Stripped M estrictive Lay Type: Depth (inche	cky Mineral (S1) (L 147, 148) eyed Matrix (S4) dox (S5) Matrix (S6) yer (if observed): NA es): NA WO JNOTCA	nes of	Iron-Manga MLRA Umbric Su Piedmont I	anese Masse 136) face (F13) ( Floodplain So	es (F12) (L MLRA 136 bils (F19) (	1, 122) MLRA 148	³Indica 3) wetl: unle  Hydric Soil Pr	tors of hydrop and hydrology ss disturbed of esent? Ye	ohytic vege y must be p or problem s	present, latic.



Upland data point wnok010\_u facing North



Upland data point wnok010\_u facing South



Upland data point wnok010\_u soil sample

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

Project/Site: ACP	City/County:	NOTTOWORL	7 Sampling	Date: 7/7/16
Applicant/Owner: COMINION		State	: Un Sampling	Point: wnok 010-4
EST-1 BORRIS K. MUTP	4189 Section Tow	mshin Range Nt	t	The state of the s
Landform (hillslope, terrace, etc.): WILLSlope Subregion (LRR or MLRA): LRR P	Local relief (c	concave, convex, none	: convex	_ Slope (%): 2-4
Subregies (LRR of MLRA): LRR C	Lat 37, 18113	Long: -72	8.05554	Datum: W65 8
Soil Map Unit Name: Mixed allavial	1000	20.9	NWI classification:	
Are climatic / hydrologic conditions on the site typical for	this time of year? Var. V			
			umstances" present?	res No
Are Vegetation, Soil, or Hydrology Are Vegetation, Soil, or Hydrology			in any answers in Rema	
SUMMARY OF FINDINGS – Attach site ma				
	1/-		5 West 25 Line (C. L. Con. )	
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes	No within	Sampled Area n a Wetland?	Yes No	/
Wetland Hydrology Present? Yes	No_V			
HYDROLOGŸ			andon Indiana a Imini	num of two required)
Wetland Hydrology Indicators:		The state of the s	ondary Indicators (mini	[12] [12] 전 (Table 12] 12 (Table 12) (Table 12) [12] [12]
Primary Indicators (minimum of one is required; check a			Surface Soil Cracks (B	
	tic Fauna (B13)		Sparsely Vegetated Co Drainage Patterns (B1	
Total Control of the	Deposits (B15) (LRR U) ogen Sulfide Odor (C1)		Moss Trim Lines (B16)	
	zed Rhizospheres along Li	ving Roots (C3)	Dry-Season Water Tab	
1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	ence of Reduced Iron (C4)		Crayfish Burrows (C8)	
A CONTRACT AND ADDRESS AND ADD	nt Iron Reduction in Tilled		Saturation Visible on A	대통령 (10 Text) 이 10 전(2010) (10 Text) - 10 Text (10 Text) - 10 Tex
The second secon	Muck Surface (C7)		Geomorphic Position (	D2)
(2) (1) (2) (2) (2) (3) (3) (3) (3) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	r (Explain in Remarks)	The second secon	Shallow Aquitard (D3) FAC-Neutral Test (D5)	
Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)		-	Sphagnum moss (D8)	
Field Observations:			TREE TREES TO THE PROPERTY OF	A restriction of the second of
Surface Water Property Ves No	Depth (inches): NA			
Water Table Present? Yes No	Depth (inches): >2011			
Saturation Present? Yes No Ves I	Depth (inches): 7 2011	Wetland Hydr	ology Present? Yes	No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring we	II, aerial photos, previous in	nspections), if available	e:	
Demodes		andronal and the second	and the second s	
Remarks:				
				- 5

% Cover	Dominant Species?	Status	Dominance Test worksheet:  Number of Dominant Species That Are OBL, FACW, or FAC: (A)
10		FACW	Total Number of Dominant Species Across All Strata: (B)
			Percent of Dominant Species That Are OBL, FACW, or FAC: 29 (A/B)
			Prevalence Index worksheet:
			Total % Cover of: Multiply by:
30	= Total Cov	ver	OBL species x1 = O
			FACW species 10 x 2 = 20  FAC species 5 x 3 = 15
	. ,		FAC species x3=
5_	<u> </u>	FACU	FACU species
5	<u>Y</u>	_	Column Totals: 55 (A) 195 (B)
2	7	-	Octobrill Totals.
5	<u> </u>	Accompany of the A	Prevalence Index = B/A = 3.55
			Hydrophytic Vegetation Indicators:
			1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%
	1.100	10.10.10.10	3 - Prevalence Index is ≤3.0¹
20	= Total Cov	/er	Problematic Hydrophytic Vegetation¹ (Explain)
			<sup>1</sup> Indicators of hydric soil and wetland hydrology must
r - 1 - 1 d - 1			be present, unless disturbed or problematic.
			Definitions of Four Vegetation Strata:
			Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
			more in diameter at breast height (DBH), regardless of height.
			Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
100 March 2012			Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
100000			Woody vine – All woody vines greater than 3.28 ft in height.
			110.3
	-		
0 :	= Total Co	ver	
WYTERWARK SAVINGS	= Total Cover		
WYTERWARK SAVINGS			
_ 20% of			Hydrophytic
_ 20% of		FAC	Hydrophytic Vegetation Present?  Yes No
	30 20% of	30 = Total Cover 5 / 5 / 5 / 5 / 5 / 5 / 5 / 5 / 5 / 5	30 = Total Cover 20% of total cover: 6  5

Profile Description: (Describe to the dept Depth Matrix (inches) Color (moist) %	h needed to document the Indicator or confirm (  Redox Features  Color (moist) % Type Loc²	Texture Remarks
Type: C=Concentration, D=Depletion, RM= Hydric Soil Indicators: (Applicable to all I Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) 5 cm Mucky Mineral (A7) (LRR P, T, U) Muck Presence (A8) (LRR U) 1 cm Muck (A9) (LRR P, T) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches):	RRs, unless otherwise noted.)  Polyvalue Below Surface (S8) (LRR S, T, U) Thin Dark Surface (S9) (LRR S, T, U) Loamy Mucky Mineral (F1) (LRR O) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Marl (F10) (LRR U) Depleted Ochric (F11) (MLRA 151) Iron-Manganese Masses (F12) (LRR O, P, T)	2 cm Muck (A10) (LRR S) Reduced Vertic (F18) (outside MLRA 150A,B) Piedmont Floodplain Soils (F19) (LRR P, S, T) Anomalous Bright Loamy Soils (F20) (MLRA 153B) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)  3 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Remarks:		

#### Environmental Field Surveys Wetland Photo Page



Upland data point wnok010\_u2 facing east.



Upland data point wnok010\_u2 facing south.

Project/Site: SERP City/County: NoTTOWAY Sampling Date:
Applicant/Owner: Dom TNION State: UA Sampling Point: WNOK
Investigator(s): 5. SWEIFIER Section, Township, Range: NA
Londform (hillsline towns of ) Flore of Long)
Subragion (IDD and IDA) / RATE - 27 10182 1415 -
Online House Middel Miland Commence
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, et
Hydrophytic Vegetation Present?  Yes  No  Is the Sampled Area
rigidic Soil Plesett? Yes No Within a Watland?
yearling Hydrology Present? Yes No O
POPPI KITA BLISHED IN FOLLITED FLOOD PLAIN WETLAND ASSOCIATED
WITH WINNINGHAM CREEK, ALL 3 CRITERIA MET. NWI CLASSI FICATION
INWINED.
PHOTOS: 100-0048 to 0052
HYDROLOGY
Wetland Hydrology Indicators:  Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)  Surface Soil Cracks (B6)
Surface Water (A1)  True Aquatic Plants (B14)  Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)  Hydrogen Sulfide Odor (C1)  Drainage Patterns (B10)
Saturation (A3)  Oxidized Rhizospheres on Living Roots (C3) Moss Trim Lines (B16)
Water Marks (B1)  Presence of Reduced Iron (C4)  Dry-Season Water Table (C2)
Sediment Deposits (B2)  Recent Iron Reduction in Tilled Soils (C6)  Crayfish Burrows (C8)
Drift Deposits (B3)  Algal Mat or Crust (B4)  Thin Muck Surface (C7)  Other (Explain in Remarks)  Saturation Visible on Aerial Imagery (C9)  Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)  Iron Deposits (B5)  Other (Explain in Remarks)  Stunted or Stressed Plants (D1)  Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)  Shallow Aquitard (D3)
Water-Stained Leaves (B9)  Microtopographic Relief (D4)
Aquatic Fauna (B13)
Field Observations:
Surface Water Present? Yes O Depth (inches): 1
Water Table Present?  Yes   No   Depth (inches): 1.3
Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
$\mathcal{N}A$
Remarks: SEVERAL INDICATORS OF WITCAND HYDROLOGY PRESENT

Tree Stratum (Plot size: 30 1/R	Absolute	Domina	ant Indicator	Sampling Point: WANK
1 Action (Plot size: 30 /		Specie	s? Status	Dominance Test worksheet:
1. ALER RUBRUM	60	Y	FAC	Number of Dominant Species
2. BETULA NIGRA	40	V	FACW	Number of Dominant Species That Are OBL, FACW, or FAC:  (A)
3. LIZIODENDRON TULIPIFERA	30	Ÿ	FALU	Total Number of Dominant
4. CARRINUS CAROLINIANA	20	N		Species Across All Strata: $/\phi$ (B)
5		- 10	FAL	
3.				That Are ORL EACIAL - EAC
5				
				Prevalence Index worksheet:
Sapling Stratum (Plot size: 15 R	\$ 150	= Total C	over 75/30	Total % Cover of: Multiply by:
CARPINUS CARDUINIANA			•	OBL species $x_1 = 1$ .
CAROCLAIANA	10	Y	FAL	FACW species x 2 = 1
				FAC species $x 3 = 1$
)				FACU species
` <del></del>				FACU species x 4 = 1  UPL species
-				
		<del></del>		Column Totals: 0 (A) 5 (B)
		<del></del>		
				Prevalence Index = B/A =
Shrub Stratum (Plot size: 151R)	9/0 =	= Total Co	over	Hydrophytic Vegetation Indicators:
ASIMINA TRILOBA	10	12	Ta:	1 - Rapid Test for Hydrophytic Vegetation
BETULA NIGRA	<u> </u>	<u> </u>	FAC	2 - Dominance Test is >50%
Oralli Contract	_5	Y	FACW	3 - Prevalence Index is ≤3.0¹
ALNUS SERRULATA	5	Y	DBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
LIQUINAMBAR STYRACTELUA	5	4	FAC	data in Remarks or on a separate sheet)
. <u></u>				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
				J J J J J J J J J J J J J J J J J J J
				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
	- <del></del> -			be present, unless disturbed or problematic.
Herb Stratum (Plot size: 51 R	<u> * 25 = </u>	: Total Co	over 13/5	Definitions of Five Vegetation Strata:
DICHANTHELLUR CLANDESTENUR	~	[AZ	601	
CALLA LUPULINA		1/2	FAC	Tree – Woody plants, excluding woody vines,
(ALEX SP. (NO FRITTILL BOOKS)	- 300 -	W	OBL	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
1. 1/10 Ph 300000	40	- 4-	-NI	(130 stri) of larger in diameter at breast neight (DBH).
CTLOPUS VIZICENTUS		$\sim$	<u>060</u>	Sapling – Woody plants, excluding woody vines,
CAREL GRACILLEMA	_ 40	Y.	FACU	approximately 20 ft (6 m) or more in height and less
				than 3 in. (7.6 cm) DBH.
				Shrub – Woody plants, excluding woody vines,
				approximately 3 to 20 ft (1 to 6 m) in height.
		_=	<del>-</del>	Herb - All harbacceus (non woods) -leefs to the
		<del></del>		Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
0				plants, except woody vines, less than approximately
1				3 ft (1 m) in height.
2				Woody vine – All woody vines, regardless of height.
771-	055 =	: Total Co	over 26/1	woody vines, regardless of neight.
Voody Vine Stratum (Plot size: 30 / R )		_	•//	
SIGELAX ROYUNDIFOLIA	30	Y	FAL	
TOXICOPENDRUN RADICANI	5	N	FAL	
CAMPBIS RADICANS	10	·V	FAC	
		+		Hydrophytic
		<del></del>		Vocatation
	<del>4</del> 5 =			Present? Yes No No
		: Total Co	over 23/9	,
Remarks: (Include photo numbers here or on a separate	sheet.)			
The land prioto flatibolo flore of off a separate				
	750.00			
VELICIATION PASJES DOMINANCE	TEST			

Depth		Matrix			Rec	lox Features	ndicator					
(inches)	Color (r	noist)	%		r (moist)	<u>%</u>	_Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remai	rks
0-5	5 YR	4/3	ブロ	2,54	5/1	30	D	m	SILT 1	LOAM	(WITH	MICA)
5-11	61841	5/109	70	STR	4/3			m	Sandy	Loan	w/ 5/1	enking
11-20	GLEY 1							·	Coqin		loan	(w/mec.
							· · ·	•			·	
		9										
<del></del>												
-							-					
			<del></del>			-						· · · · · · · · · · · · · · · · · · ·
	oncentration	n, D=Depl	etion, RM	=Reduce	d Matrix, N	иS=Masked	Sand Gra	ains.	<sup>2</sup> Location: P			
	Indicators:								-			c Hydric Soils <sup>3</sup> :
Histosol					Dark Surfac		(a.s. /a			2 cm Muck		
Histic Ep Black His	oipedon (A2	)				Below Surfa Burface (S9)			, 148)	Coast Prairi	,	(16)
	en Sulfide (A	.4)				yed Matrix (		47, 140)	· П	(MLRA 1 Piedmont F		oils (F19)
	d Layers (A	•			Depleted M		,		، سے	(MLRA 1	•	0113 (1 13)
	ıck (A10) <b>(L</b>					Surface (F	6)			Red Parent		F2)
	d Below Dar		(A11)			ark Surface						face (TF12)
Thick Da	ark Surface	(A12)		∐ F	Redox Dep	ressions (F	8)		a 4 🔲 (	Other (Expl	ain in Rema	arks)
	lucky Miner	al (S1) <b>(L</b>	RR N,	[		inese Massi	es (F12) (	LRR N,				* ** *
	A 147, 148)			· 🖂 .	MLRA 1					- 5		
	lavad Matri											
Sandy G		X (34)				face (F13) (				dicators of l		
☐ Sandy R	Redox (S5)					face (F13) ( loodplain S			18) v	wetland hyd	Irology mus	st be present,
Sandy R Stripped	Redox (S5) I Matrix (S6)								18) v		Irology mus	st be present,
Sandy R Stripped estrictive L	Redox (S5) I Matrix (S6) Layer (if ob								18) v	wetland hyd	Irology mus	st be present,
Sandy R Stripped estrictive I Type:	Redox (S5) Matrix (S6) Layer (if ob	served):						(MLRA 14	18) v	wetland hyd unless distu	Irology mus	et be present, oblematic.
Sandy R Stripped estrictive L Type: Depth (inc	Redox (S5) I Matrix (S6) Layer (if ob	served):							18) v	wetland hyd unless distu	Irology mus	et be present, oblematic.
Sandy R Stripped estrictive L Type: Depth (inc	Redox (S5) Matrix (S6) Layer (if ob	served):						(MLRA 14	18) v	wetland hyd unless distu	Irology mus	et be present, oblematic.
Sandy R Stripped estrictive L Type: Depth (inc	Redox (S5) Matrix (S6) Layer (if ob	served):						(MLRA 14	18) v	wetland hyd unless distu	Irology mus	et be present, oblematic.
Sandy R Stripped estrictive L Type: Depth (inc	Redox (S5) Matrix (S6) Layer (if ob	served):						(MLRA 14	18) v	wetland hyd unless distu	Irology mus	et be present, oblematic.
Sandy R Stripped estrictive L Type: Depth (inc	Redox (S5) Matrix (S6) Layer (if ob	served):						(MLRA 14	18) v	wetland hyd unless distu	Irology mus	et be present, oblematic.
Sandy R Stripped estrictive L Type: Depth (inc	Redox (S5) Matrix (S6) Layer (if ob	served):						(MLRA 14	18) v	wetland hyd unless distu	Irology mus	et be present, oblematic.
Sandy R Stripped estrictive L Type: Depth (inc	Redox (S5) Matrix (S6) Layer (if ob	served):						(MLRA 14	18) v	wetland hyd unless distu	Irology mus	et be present, oblematic.
Sandy R Stripped estrictive L Type: Depth (inc	Redox (S5) Matrix (S6) Layer (if ob	served):						(MLRA 14	18) \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	wetland hyd unless distu	Irology mus	et be present, oblematic.
Sandy R Stripped estrictive L Type: Depth (inc	Redox (S5) Matrix (S6) Layer (if ob	served):						(MLRA 14	18) \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	wetland hyd unless distu	Irology mus	et be present, oblematic.
Sandy R Stripped estrictive L Type: Depth (inc	Redox (S5) Matrix (S6) Layer (if ob A) Ches):	served):	ИЕТСИ		Piedmont F	loodplain S	oils (F19)	(MLRA 14	18) \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	wetland hydunless distu	Yes	et be present, oblematic.
Sandy R Stripped estrictive L Type: Depth (inc	Redox (S5) Matrix (S6) Layer (if ob A) Ches):	served):	ИЕТЦ		Piedmont F	loodplain S	oils (F19)	(MLRA 14	Hydric Soi	wetland hydunless distu	Yes	et be present, oblematic.
Sandy R Stripped estrictive L Type: Depth (inc	Redox (S5) Matrix (S6) Layer (if ob A) Ches):	served):	ИЕТСИ		Piedmont F	loodplain S	oils (F19)	(MLRA 14	Hydric Soi	wetland hydunless distu	Yes	et be present, oblematic.
Sandy R Stripped estrictive L Type: Depth (inc	Redox (S5) Matrix (S6) Layer (if ob A) Ches):	served):	KETCH		Piedmont F	loodplain S	oils (F19)	(MLRA 14	Hydric Soi	wetland hydunless distu	Yes	et be present, oblematic.
Sandy R Stripped estrictive L Type: Depth (inc	Redox (S5) Matrix (S6) Layer (if ob A) Ches):	served):	HETCH		Piedmont F	loodplain S	oils (F19)	(MLRA 14	Hydric Soi	wetland hydunless distu	Yes	et be present, oblematic.
Sandy R Stripped estrictive L Type: Depth (inc	Redox (S5) Matrix (S6) Layer (if ob A) Ches):	served):	KETCH		Piedmont F	loodplain S	oils (F19)	(MLRA 14	Hydric Soi	wetland hydunless distu	Yes	et be present, oblematic.
Sandy R Stripped estrictive I Type:	Redox (S5) Matrix (S6) Layer (if ob A) Ches):	served):	KETCH		Piedmont F	loodplain S	oils (F19)	(MLRA 14	Hydric Soi	wetland hydunless distu	Yes	et be present, oblematic.
Sandy R Stripped estrictive L Type: Depth (inc	Redox (S5) Matrix (S6) Layer (if ob A) Ches):	served):	ИЕТЦ		Piedmont F	loodplain S	oils (F19)	(MLRA 14	Hydric Soi	wetland hydunless distu	Yes	et be present, oblematic.
Sandy R Stripped estrictive L Type: Depth (inc	Redox (S5) Matrix (S6) Layer (if ob A) Ches):	served):	HETCH		Piedmont F	loodplain S	oils (F19)	(MLRA 14	Hydric Soi	wetland hydunless distu	Yes	et be present, oblematic.
Sandy R Stripped estrictive L Type: Depth (inc	Redox (S5) Matrix (S6) Layer (if ob A) Ches):	served):	ИЕТСИ		Piedmont F	loodplain S	oils (F19)	(MLRA 14	Hydric Soi	wetland hydunless distu	Yes	et be present, oblematic.
Sandy R Stripped estrictive L Type: Depth (inc	Redox (S5) Matrix (S6) Layer (if ob A) Ches):	served):	HETCH		Piedmont F	loodplain S	oils (F19)	(MLRA 14	Hydric Soi	wetland hydunless distu	Yes	et be present, oblematic.
Sandy R Stripped estrictive L Type: Depth (inc	Redox (S5) Matrix (S6) Layer (if ob A) Ches):	served):	KETCH		Piedmont F	loodplain S	oils (F19)	(MLRA 14	Hydric Soi	wetland hydunless distu	Yes	et be present, oblematic.



Wetland data point wnok010f\_w facing North



Wetland data point wnok010f\_w facing South



Wetland data point wnok010f\_w soil sample

#### WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region Project/Site: ACP State: VA Applicant/Owner: Daminian Investigator(s): ESI-L, ROPEY, K, MUYPUPEY Section, Township, Range: NA Local relief (concave, convex, none): \_\_\_\_\_\_\_\_ Landform (hillslope, terrace, etc.): \_ drainage \_\_\_ Long: -18.05558 Subregion (LRR or MLRA): LRR NWI classification: road Soil Map Unit Name: Mixed (If no, explain in Remarks.) Are climatic / hydrologic conditions on the site typical for this time of year? Yes \_ Are "Normal Circumstances" present? Yes Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? (If needed, explain any answers in Remarks.) \_\_ naturally problematic? Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_ SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area Hydric Soil Present? Yes within a Wetland? Wetland Hydrology Present? Yes Remarks: NCWAM: Bottomland Hardwood Forest HYDROLOGY Secondary Indicators (minimum of two required) Wetland Hydrology Indicators: Surface Soil Cracks (B6) Primary Indicators (minimum of one is required; check all that apply) Sparsely Vegetated Concave Surface (B8) Surface Water (A1) Aquatic Fauna (B13) Drainage Patterns (B10) High Water Table (A2) Marl Deposits (B15) (LRR U) Moss Trim Lines (B16) Saturation (A3) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres along Living Roots (C3) Water Marks (B1) Crayfish Burrows (C8) Presence of Reduced Iron (C4) Sediment Deposits (B2) Saturation Visible on Aerial Imagery (C9) Recent Iron Reduction in Tilled Soils (C6) Drift Deposits (B3) Geomorphic Position (D2) Algal Mat or Crust (B4) Thin Muck Surface (C7) Shallow Aquitard (D3) Other (Explain in Remarks) Iron Deposits (B5) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Sphagnum moss (D8) (LRR T, U) Water-Stained Leaves (B9) Field Observations: Depth (inches): Surface Water Present? \_ Depth (inches): Surface Water Table Present? Depth (inches): SUIFACE Wetland Hydrology Present? Yes Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Slouded beover pund

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

	Absolute	Dominan	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 305+ X 305+)		Species	? Status	Number of Dominant Species
1. Acer rubrum	10		+AC	That Are OBL, FACW, or FAC: (A)
2. Carpinas caroliniana	20		FAC	Total Number of Dominant
3 Platanus occidentalis	(()	7	FACW	Species Across All Strata: (B)
4.				Percent of Dominant Species
5				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6.				
7.				Prevalence Index worksheet:
				Total % Cover of: Multiply by:
8	110	= Total Co		OBL species x 1 =
				FACW species x 2 =
50% of total cover: 20	20% 0	total cove	r:	FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 308+ ×308+)	()	4	-0-	FACU species x 4 =
1. Asimina triloba	10		FAC	UPL species x 5 =
2. COTAUS ammunum	15	7	FACW	Column Totals: (A) (B)
3.				Column Totals (A) (B)
4.		100000		Prevalence Index = B/A =
5.				Hydrophytic Vegetation Indicators:
6.				Trapid Test for Hydrophytic Vegetation
7.				2 - Dominance Test is >50%
8.	1000			3 - Prevalence Index is ≤3.0¹
0,	25	= Total Co	ver	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 12.5				Problematic Hydrophytic Vegetation (Explain)
	20% 0	total cove	-	
Herb Stratum (Plot size: 204 x3084)	5	Y	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. Dichanthelium scoparium		-11	FAC	CANDELLA CONSTRUCTOR DE LA CONTRACTOR NO ASSESSADA CONTRACTOR DE CONTRAC
2. Microstegiam vimineum	9	7	FILE	Definitions of Four Vegetation Strata:
3.			and the same of the same	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4.	and the Steel Co.			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.			The area of the control of the contr	Herb - All herbaceous (non-woody) plants, regardless
9.				of size, and woody plants less than 3.28 ft tall.
10.				
AND THE RESIDENCE OF THE PROPERTY OF THE PROPE		-		Woody vine – All woody vines greater than 3.28 ft in height.
11.	7-17-12-17	CONTRACTOR		neight.
12	16	THE PART OF THE		
	Journal of the Control	= Total Co	-	The state of the s
50% of total cover:	20% o	f total cove	r d	
Woody Vine Stratum (Plot size: 26+X308+)	_		TAC	
1. Smilax votundifolia			FIL	
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Tales halis	
3.	er minerale en	The second second		
4. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10	North Art State	or control	n in the course	
5				Hydrophytic
The second secon	5	= Total Co	ver	Vegetation
		f total cove	N3000	Present? Yes No
50% of total cover: 2.		I total cove		
Remarks: (If observed, list morphological adaptations below	ow).			
				e a congress of many and the second second second second

Depth inches)	Matrix			x Features			the absence of it	
A ICH PEST	Color (moist)	%	Color (moist)		Type <sup>1</sup>	Loc²	Texture	* Remarks
1-12	104R4/1		104R4/4	10	(	M	L5	
10	100/10 1/		1					
		-					20-00	
			T					
				1 212				
	oncentration, D=Dep	letion RM=	Reduced Matrix M	S=Masked S	Sand Grain	S.	<sup>2</sup> Location: PL:	Pore Lining, M=Matrix.
dric Soil I	ndicators: (Applic	able to all L	RRs, unless othe	rwise noted	d.)		Indicators for	Problematic Hydric Soils <sup>3</sup> :
Histosol			Polyvalue Be			R S. T. U	1 cm Muck	(A9) (LRR O)
	ipedon (A2)		Thin Dark St				2 cm Much	(A10) (LRR S)
Black His	March Alexander and Art 7 to 1997		Loamy Muck				Reduced \	/ertic (F18) (outside MLRA 150A
	n Sulfide (A4)		Loamy Gley				Piedmont	Floodplain Soils (F19) (LRR P, S,
	Layers (A5)		Depleted Ma					s Bright Loamy Soils (F20)
	Bodies (A6) (LRR P	, T, U)	Redox Dark	Surface (F6	5)		(MLRA	
	cky Mineral (A7) (Li		Depleted Da					nt Material (TF2)
Muck Pr	esence (A8) (LRR L		Redox Depr		)			low Dark Surface (TF12)
	ck (A9) (LRR P, T)		Marl (F10) (1			. 9	Other (Ex	plain in Remarks)
	Below Dark Surfac	e (A11)	Depleted Oc				T) Jandicolo	rs of hydrophytic vegetation and
	ark Surface (A12)	n Ly	Iron-Mangar				i) indicato	d hydrology must be present,
	rairie Redox (A16) (I		Umbric Surf			J)	wellan	disturbed or problematic.
	lucky Mineral (S1) (	LRR O, S)	Delta Ochric			4=081	Uness	distance of problemate
	Sleyed Matrix (S4)		Reduced Ve				0.4.)	
	ledox (S5)		Anamalaus	Dright Loam	Soile (F2	O (MI R	A 149A, 153C, 15	53D)
	Matrix (S6)	. T III	II Allomaious	Diigiit Loain	ly 20113 (1 2	b) (merc	, 110/10 1000	
	rface (S7) (LRR P, ! Layer (if observed)					* *	The second second	Activities and the second
Type:							Hydric Soil Pr	esent? Yes No
Depth (in	ches):			Barray Was	and the	A (Art of the last)	Tiyane cont.	COLOR DE CONTRACTOR DE LA CONTRACTOR DE CONT
emarks:								
	Post 12	11						
Aza-	Defect to the second							
ANS	POIST 12							
ANS	POIST (2							
ANS	POST (2							
ANG	POIST (2							
ANS	P3157 (2							
AND	POST (2							
ANS	POST (2							
ANA	POST (2							
ANA	POST (2							
ANA	P3137 (2							
ANA	P3137 (2							
ANA	POIST (2							
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NA	POIST (2							
CNA	POIST (2							
CNA	POIST (2							
NA	POIST (2							
ANA	POIST (2							

### Environmental Field Surveys Wetland Photo Page



Wetland data point wnok010f\_w2 facing north.



Wetland data point wnok010f\_w2 facing west.

Project/Site:	SERP	City/Coun	NOTTOWAY	C = 1	ing Date: 09/18/201
Applicant/Owner:	DOMENTON	Only/Oddi		. / /	
Investigator(s):	J. JWEITLER	Section	Fownship, Range:	NA Sam	pling Point: WNOKOIC
Landform (hillslope,	terrace, etc.): FLOODF4	ال خاصورا	concave, convex, none):		0 00 00-1
Subregion (LRR or N	_	Lat: 37, 18086253	Long: 78.	056520142	Slope (%): <u>0-1</u>
Soil Map Unit Name			Long:	NWI classification:	Datum: <u>NAD1933</u> PEMICH
Are climatic / hydrolo	ogic conditions on the site ty	oical for this time of year? Yes _	No O (If n	o, explain in Remarks.	
	, Soil, or Hydrolog			cumstances" present?	
Are Vegetation	7 [	y naturally problematic?		ain any answers in Re	
SUMMARY OF	FINDINGS – Attach s	ite map showing sampli			
Hydrophytic Vegeta		O No O		•	
Hydric Soil Present		O Is	the Sampled Area		
Wetland Hydrology		No O wit	thin a Wetland?	Yes <u>Ø</u> No	
Remarks: POIN	T COLATED IN	FLOODPLAEN ASSOC	IATKY WITH	WINNINGHA	V- CO- 54
LOLATRO	ON KOLE OF	PFO WETLAME IN			- CREEPL.
	**	•			,* ,
PHOTO; /00 -	0043 10 0047				
HYDROLOGY					
Wetland Hydrolog	y Indicators:		Sac	condany Indicators (mis	almours of the annulus ()
	(minimum of one is required	check all that apply)	300	condary Indicators (mir Surface Soil Cracks (	
Surface Water		True Aquatic Plants (B14)			Concave Surface (B8)
High Water Tal		Hydrogen Sulfide Odor (C		Drainage Patterns (B	
Saturation (A3)	)	Oxidized Rhizospheres or	· ——	Moss Trim Lines (B16	
Water Marks (E	31)	Presence of Reduced Iron		Dry-Season Water Ta	
Sediment Depo	osits (B2)	Recent Iron Reduction in		Crayfish Burrows (C8	, ,
Drift Deposits (	(B3)	Thin Muck Surface (C7)	` ′ 🗔	Saturation Visible on	
Algal Mat or Cr	rust (B4)	Other (Explain in Remark	s)	Stunted or Stressed I	
Iron Deposits (	•		Ū	Geomorphic Position	
	ble on Aerial Imagery (B7)			Shallow Aquitard (D3	)
Water-Stained		* *		Microtopographic Rel	ief (D4)
Aquatic Fauna	<u> </u>			FAC-Neutral Test (D	5)
Field Observation					
Surface Water Pres		Depth (inches):			
Water Table Preser	<del></del>	Deput (inches).	<del></del>		
Saturation Present (includes capillary f	ringe)			ology Present? Yes	No
Describe Recorded		oring well, aerial photos, previous	s inspections), if availabl	le:	
Remarks:	NA	0			
Remarks: SEVA	ral primary	AND SECONDARY IN	VOICATURE OF	HYDROLOLY	PRISENT
					•
					•
	,				*
					n .
	•				

7010	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 (R)	% Cover Species? Status	Number of Dominant Species 4/
1. BÉTULA NIGHA	30 Y FACW	That Are OBL, FACW, or FAC: (A)
2. ALER RUBEUM	20 Y FAL	* *
3.		Total Number of Dominant
4		Species Across All Strata: (B)
		Percent of Dominant Species 100
5		That Are OBL, FACW, or FAC: (A/B)
6		
7	_ <u></u>	Prevalence Index worksheet:
, -/ a	# 50 = Total Cover 25/10	Total % Cover of: Multiply by:
Sapling Stratum (Plot size: 1512 )	<u> </u>	OBL species x 1 =
1. SALIX NICKA	5 X 086	FACW species x 2 = _1
2		FAC species x 3 = 1
3. NA		FACU species x 4 =
1		UPL species x 5 =
4	- <del> </del>	
5		Column Totals: 0 (A) 5 (B)
6		Prevalence Index = B/A =
7		
1510	= Total Cover	Hydrophytic Vegetation Indicators:
Shrub Stratum (Plot size: 15'R)	· -	1- Rapid Test for Hydrophytic Vegetation
1. SALFA NILAA	5 9 031	2 - Dominance Test is >50%
2		3 - Prevalence Index is ≤3.0 <sup>1</sup>
3.		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
		data in Remarks or on a separate sheet)
4		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5		
6	- <del> </del>	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
7		be present, unless disturbed or problematic.
~(0	e 5 = Total Cover	Definitions of Five Vegetation Strata:
Herb Stratum (Plot size: 5 'R )		Definitions of Five vegetation Strata.
1. LEERISA OKTIOIDES	150 DBC	Tree – Woody plants, excluding woody vines,
2. PERSUALIA SALITTATA	10 M 63L	approximately 20 ft (6 m) or more in height and 3 in.
3		(7.6 cm) or larger in diameter at breast height (DBH).
4.		Sapling - Woody plants, excluding woody vines,
5.		approximately 20 ft (6 m) or more in height and less
		than 3 in. (7.6 cm) DBH.
6	- <del> </del>	Shrub – Woody plants, excluding woody vines,
7	- <del>   </del>	approximately 3 to 20 ft (1 to 6 m) in height.
8.		Harle All back and described to the last
9		Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
10		plants, except woody vines, less than approximately
11	· 🔲	3 ft (1 m) in height.
. 12.		Weederdee Allerederdee and additional field
		Woody vine - All woody vines, regardless of height.
Woody Vine Stratum (Plot size: 30' K )	( / lar) - Total Cover Col /27	
	9/60 = Total Cover80/32	
1 NA	$\frac{\sqrt[9]{b0}}{\sqrt{50}} = \text{Total Cover } 80/32$	
1. NA	<u>\$160</u> = Total Cover80/32	
2.		
2		
2		Hydrophytic
2		
2		Hydrophytic Vegetation
2	0 = Total Cover	Hydrophytic Vegetation
2	0 = Total Cover	Hydrophytic Vegetation
2	0 = Total Cover	Hydrophytic Vegetation
2	0 = Total Cover	Hydrophytic Vegetation
2	0 = Total Cover	Hydrophytic Vegetation

-	^	I	
•	11		

Sampling Point: WNONDIDE W

	cription: (Describe t	o the de	pth neede	ed to docun	nent the i	indicator	or confirm	the absence	of indicate	ors.)	
Depth (inches)	Matrix Color (moist)	%	Color	Redox (moist)	x Feature		2				
0-3	HEY 1 5/104	80	10 72		20	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks	
			70 /70	3/6	-20		PZ/M	710	COMM	WORLAN	56
3-20	G1871 5/108	100		· ·				591dy	SIUT C	W/ORLAN	
	**** <u></u>	· in the same		197	or in the second		37	1 L L C			
				14/11/20				- A.			· · · · ·
								<del></del>	12.4		- 1.50
				202	1 ———					4,75	-
		<del></del>	-						-	-	
				<u> </u>							
	* ,							<b>*</b>			
<sup>1</sup> Type: C=C	Concentration, D=Depl	etion, RM	I=Reduced	d Matrix, MS	S=Masked	Sand Gra	ins.	<sup>2</sup> Location: Pl	=Pore Linin	ng M=Matrix	
Hydric Soil	Indicators:									oblematic Hydric	Soils <sup>3</sup> :
Histoso	l (A1)			ark Surface	(S7)					A10) (MLRA 147)	
	pipedon (A2)		, P	olyvalue Bel	low Surfa	ce (S8) <b>(M</b>	LRA 147,			Redox (A16)	
- Promoted	listic (A3)			hin Dark Su			47, 148)		(MLRA 14	7, 148)	
	en Sulfide (A4)			oamy Gleye		F2)		F	Piedmont Flo	odplain Soils (F19	9)
	ed Layers (A5)			epleted Mat					(MLRA 13		
	uck (A10) <b>(LRR N)</b> ed Below Dark Surface	(411)		edox Dark S						Material (TF2)	
	ark Surface (A12)	(ATT)		epleted Dar edox Depre			Q 14			Dark Surface (TF	12)
	Mucky Mineral (S1) (L	RR N.		on-Mangane				П	λιner (Expiai	n in Remarks)	
	A 147, 148)		<u> </u>	MLRA 136		00 (1 12) (2					
Sandy	Gleyed Matrix (S4)		Ūυ	mbric Surfac	,	MLRA 13	6, 122)	3Inc	licators of hy	drophytic vegetat	ion and
Sandy I	Redox (S5)			iedmont Flo						ology must be pre	
	d Matrix (S6)									bed or problemation	
TA .	Layer (if observed):									*.	
Type:										-/	_
Depth (in	nches): NA	_						Hydric Soil	Present?	Yes <u>Ø</u> N	。 <u> </u>
Remarks:											
							/_	_			₫
		×				/			1		
k .								PFOIC	/ .		$\prec$
W.							ONOIOA	INFO.			
$\int$				CITED	•	· NIN	ONON	1	/	. /	
1.			F	CONESTED		<b>~</b>	· /	• •	<i>'</i> .	4	<b>1</b> 1
/150 FL		_			T		/ .v	O myork,	106-M	r /	1
				_			/ ~	- WHOK			./
1					~		/_ \		PEMIL		P
(			v					_/-	_		/
`			U		.)	*		/ m		ω> /	V
						<u> </u>		P W	NOK 0102	PENIL Y	
										76.	_
	*								/_		_
							X.	/.		K/ / U4	PLAND
							•	KOKOK	-	1/5	LOPE
					\			SNOKON	e.	(R)	
<b>A</b>	-					<b>\</b>				17	
4									•		
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N.											
1-					<i>(</i>						
										,	



Wetland data point wnok010e\_w facing North



Wetland data point wnok010e\_w facing South



Wetland data point wnok010e\_w soil sample

Project/Site:	SERP		City	/County:	NOTOWA	+ Y		- Land	8/18/70
Applicant/Owner: _	DOMINION					State: 1			
Investigator(s):	J. SWEITCH	R	Sec	tion, Township	Range:	<i>NA</i>	S:	ampling Point:	WNOKOIO
Landform (hillslope	, terrace, etc.): TEA	LaACE		elief (concave,			15		0-1
Subregion (LRR or	MLRA): LRRP	Lat: 3	7. 181227	395	Long: 78				(%): 0-1
Soil Map Unit Name	: MEXED ALL	JUZAL LAN			Long				NAO 1983
Are climatic / hydro	logic conditions on the s			Van 🙆		NWI cla	ssification:	NA	
Are Vegetation	, Soil, or Hyd	trology : si	anificantly dist					_	
Are Vegetation	, Soil, or Hyd		aturally problem				15	it? Yes 🙋	_ No _O_
	FINDINGS - Atta				(If needed, ex nt location	kplain any ai ns. transa	nswers in F	Remarks.)	turos ete
Hydrophytic Vege									ures, etc.
Hydric Soil Preser		Yes No Yes O No		Is the Sam				₹ I , e	1
Wetland Hydrolog		Yes O No		within a W	etland?	Yes _	<u> </u>	lo _ <b>®</b>	, ,
Remarks: POI	UT EITA BLISHED			TERRA	CE IN	DECIO	Voul .	WOODEAN	10
,					,				
	*								
PHOTOS 10	0-0056 to 0	olo	,						
HYDROLOGY	1			<u></u>					
Wetland Hydrolo	av Indicators:								
Leave S	(minimum of one is req	uired: check all th	of applic		<u>.</u>			minimum of two	o required)
Surface Wate				(D44)			Soil Crack		
High Water T			Aquatic Plants ogen Sulfide Od					d Concave Sur	face (B8)
Saturation (A:			zed Rhizosphe		L Roote (C3)		e Patterns im Lines (E		
Water Marks	(B1)		ence of Reduce		[			Table (C2)	
Sediment Der			nt Iron Reducti		oils (C6)	_	Burrows (		* 1
Drift Deposits			Muck Surface (			_	•	on Aerial Imag	ery (C9)
Algal Mat or 0	, ,	Othe	(Explain in Re	marks)	[			d Plants (D1)	
Iron Deposits	(เธอ) sible on Aerial Imagery (	D7\			ļ		phic Positi	, ,	
Water-Staine		B7)			ļ		Aquitard (I		
Aquatic Faun					L I		ographic F	. ,	•
Field Observatio					. L	FAC-Ne	utral Test (	(D2)	
Surface Water Pre		No 🕑 Dep	th (inches):	NA					
Water Table Pres	ent? Yes O	<b>A</b>	th (inches):	NA					
Saturation Presen		No <b>@</b> Dep	th (inches):	NA	Wetland Hy	drology Pr	esent? Y	es l	No V
(includes capillary  Describe Recorde	fringe) d Data (stream gauge, r	monitoring well a	arial photos pr	ovious inense					
,	NA	nomtoring well, a	eriai priotos, pr	evious irispec	uons), it avail	able:			
Remarks:		e of to Ail	N 114 045	1.6.1					, .
No	INDICATORS O	F WETCAN	יטוע זידן ע	LOG 45					
								24 g.p. "	
¥ 41							ı		
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	A1 1 1	- ·		
Tree Stratum (Plot size: 30 / R )	Absolute		t Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)		Species'		Number of Dominant Species 7
1. ALER RUBRUM	50	<u> </u>	FAC	That Are OBL, FACW, or FAC: (A)
2. LIQUIDAMBAR STYRACIFULA	40	1	FAC	
3. QUERLUS RUBRA	30	N	FACU	Total Number of Dominant
10.11		- marks		Species Across All Strata: (B)
4. CARPINUS CAROLINIANA	<u> 30</u>	$\mathcal{L}$	FAC	ab 70
5. LIRINDENDRON TULLPIFERA	20	N	FACU	Percent of Dominant Species /8
			77700	That Are OBL, FACW, or FAC: (A/B)
6				Described to the formation of the format
7			* 4	Prevalence Index worksheet:
F-1	0170	= Total Co	ver 85/34	Total % Cover of: Multiply by:
Sapling Stratum (Plot size: / / C )	<u> </u>	- Total Oo	100//	OBL species x 1 = 1
1. CORNVI FLOREDA	10	4	EN:1	
			FALU	FACW species x 2 = _1
2. CARPINI CAZULINIANA	_20_	Y	FAC	FAC species x 3 = _1
3. FRAXINUI PENLYLVANTA	.5	W	FACW	FACU species x 4 = _1
4				UPL species x 5 = 1
5				Column Totals: 0 (A) 5 (B)
6				
		-		Prevalence Index = B/A =
7:			<u> </u>	
. 1.	035	= Total Co	ver 18 / 7	Hydrophytic Vegetation Indicators:
Shrub Stratum (Plot size: 15 R				1- Rapid Test for Hydrophytic Vegetation
1. CARPINUS CAROLINIANA	60	Y	FAC	2 - Dominance Test is >50%
		M	FAC	
2. ASTMENA TRECOBA			rac.	3 - Prevalence Index is ≤3.0 <sup>1</sup>
3.		- 1 -4	F	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
				data in Remarks or on a separate sheet)
4		-	<del></del>	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5		<u></u>	<u> </u>	- Troblemade Tydrophlydd Vegetadolf (Explain)
6				
				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
7.	- 184			be present, unless disturbed or problematic.
cl <sub>2</sub>	065	= Total Co	ver <i>33 15</i>	Definitions of Five Vegetation Strata:
Herb Stratum (Plot size: 51R)			,	Definitions of Five Vegetation Strata: .
/	20	= Total Co	FAW	
1. CAREX DE GRAVILLIMA			,	Tree – Woody plants, excluding woody vines,
1. CAREX DE GRAVILLUIMA 2. EMPLIERA SEMPERULAENS	2.0		FAW	
1. CAREX SE GRAVILLIMA 2. CONTERA SEMPERATURENS 3. LONTERA JAPONILA			FAL	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
1. CAREX DE GRAVILLUIMA 2. EMPLIERA SEMPERULAENS	20		FAW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines,
1. CARET DE GRAVILLUIMA 2. LINTUERA SEMPERATARNS 3. LONTIGRA JAPONILA 4. CARPINU CAROLINIANA	20 -5 -40	₩     \   \   \	FAL FAL	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
1. CAREX SE GRAVILLIMA 2. CONTERA SEMPERATURENS 3. LONTERA JAPONILA	20		FAL	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines,
1. CARET DE GRAVILLUIMA 2. LINTUERA SEMPERATARNS 3. LONTIGRA JAPONILA 4. CARPINU CAROLINIANA	20 -5 -40	₩     \   \   \	FAL FAL	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
1. CARET DE GRAVILLUIMA 2. LYPTLIERA SEMPERULAENS 3. LONSIERA JAPON TLA 4. CARPINU CAROLINIANA 5. ARILAKMA TRYPHYLIUM 6.	20 -5 -40	₩     \   \   \	FAL FAL	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines,
1. CARET DE GRAVILLUIMA 2. LINTUERA SEMPERATARNS 3. LONTIGRA JAPONILA 4. CARPINU CAROLINIANA	20 -5 -40	₩     \   \   \	FAL FAL	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
1. CARET DE GRAVILLUIMA 2. LYPTLIERA SEMPERULAENS 3. LONSIERA JAPON TLA 4. CARPINU CAROLINIANA 5. ARILAKMA TRYPHYLIUM 6.	20 -5 -40	₩     \   \   \	FAL FAL	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
1. CARET DE GRAVILLUIMA 2. LYPTLIERA SEMPERULAENS 3. LONSIERA JAPON TLA 4. CARPINU CAROLINIANA 5. ARILAKMA TRYPHYLIUM 6.	20 -5 -40	₩     \   \   \	FAL FAL	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including
1. CARET DE GRAVILLUMA 2. CONTIGRA SEMPERATARNS 3. LONTIGRA JAPON TLA 4. CARPINU CAROLINIANA 5. ARI SAKMA TRYPHYLIUM 6. 7. 8.	20 -5 -40	₩     \   \   \	FAL FAL	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
1. CAREX SE GRAVILLIMA 2. CONTIGNA SEMPERATURENS 3. LONTIGNA JAPONICA 4. CARPINU CAROLINIANA 5. ARILAMA TRYPHYLIUM 6. 7. 8. 9.	20 -5 -40	₩     \   \   \	FAL FAL	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately
1. CARET DE GRAVILLUMA 2. CONTIGRA SEMPERATARNS 3. LONTIGRA JAPON TLA 4. CARPINU CAROLINIANA 5. ARI SAKMA TRYPHYLIUM 6. 7. 8.	20 -5 -40	₩     \   \   \	FAL FAL	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
1. CAREX SE GRAVILLIMA 2. CONTIGNA SEMPERATURENS 3. LONTIGNA JAPONICA 4. CARPINU CAROLINIANA 5. ARILAMA TRYPHYLIUM 6. 7. 8. 9.	20 5 40 5		FAC FAC FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
1. CARET SE GRAVILLIMA 2. CHRITERA SEMPERATARNS 3. LONTERA JAPONICA 4. CARPINU CAROLINIANA 5. ARIGAMA TRYPHYLIUM 6. 7. 8. 9. 10. 11.	20 5 40 5		FAC FAC FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately
1. CAREX SE GRAVILLIMA 2. CONTIERA SEMPERATURANS 3. LONTIERA JAPON ILA 4. CARPINU CAROLINIANA 5. ARILAKMA TRYPHYLIUM 6. 7. 8. 9. 10. 11.	20 5 40 5		FAL FAL	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
1. CARET DE GRAVILLUMA 2. CARPINA SEMPERATALAS 3. LONTIERA JAPONTICA 4. CARPINA CAROLINIANA 5. ARI (AKMA TRYPHYLIUM 6	5 40 5		FAC FAC FAC FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
1. CARET SE GRAVILLIMA 2. CARPINA SEMPERATALIS 3. LONTERA JAPONTLA 4. CARPINA CAROLINIANA 5. ARI (AKMA TRYPHYLIUM 6. 7. 8. 9. 10. 11. 12. Woody Vine Stratum (Plot size: 30 R) 1. SMFLAS RS JUNDIFULTA	20 5 40 5		FAC FAC FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
1. CAREX SE GRAVILLIMA 2. CHRITERA SEMPERATARIA 3. LONTERA JAPONILA 4. CARPINU CAROLINIANA 5. ARI (ALMA TRYPHYLIUM 6. 7. 8. 9. 10. 11. 12. Woody Vine Stratum (Plot size: 30'R) 1. SMIMA RIUNDIFULTA 2. CONTLINA  2. CONTLINA  2. CONTLINA  2. CONTLINA  3. CONTLINA  4. CONTLINA  5. CONTLINA  5. CONTLINA  7.	5 40 5		FAC FAC FAC FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
1. CAREX SE GRAVILLIMA 2. CHRITERA SEMPERATARIA 3. LONTERA JAPONILA 4. CARPINU CAROLINIANA 5. ARI (ALMA TRYPHYLIUM 6. 7. 8. 9. 10. 11. 12. Woody Vine Stratum (Plot size: 30'R) 1. SMIMA RIUNDIFULTA 2. CONTLINA  2. CONTLINA  2. CONTLINA  2. CONTLINA  3. CONTLINA  4. CONTLINA  5. CONTLINA  5. CONTLINA  7.	20 5 40 5		FAL FAL FAL FAC FACV	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
1. CARET SE GRAVILLIMA 2. CARPINA SEMPERATALIS 3. LONTERA JAPONTLA 4. CARPINA CAROLINIANA 5. ARI (AKMA TRYPHYLIUM 6. 7. 8. 9. 10. 11. 12. Woody Vine Stratum (Plot size: 30 R) 1. SMFLAS RS JUNDIFULTA	5 40 5		FAC FAC FAC FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.
1. CAREX SE GRAVILLIMA 2. CHRITERA SEMPERATARIA 3. LONTERA JAPONILA 4. CARPINU CAROLINIANA 5. ARI (ALMA TRYPHYLIUM 6. 7. 8. 9. 10. 11. 12. Woody Vine Stratum (Plot size: 30'R) 1. SMIMA RIUNDIFULTA 2. CONTLINA  2. CONTLINA  2. CONTLINA  2. CONTLINA  3. CONTLINA  4. CONTLINA  5. CONTLINA  5. CONTLINA  7.	20 5 40 5		FAL FAC FAC FACW Ver 35/14	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.
1. CAREX SE GRAVILLIMA 2. CHRITERA SEMPERATARIA 3. LONTERA JAPONILA 4. CARPINU CAROLINIANA 5. ARI (ALMA TRYPHYLIUM 6. 7. 8. 9. 10. 11. 12. Woody Vine Stratum (Plot size: 30'R) 1. SMIMA RIUNDIFULTA 2. CONTLINA  2. CONTLINA  2. CONTLINA  2. CONTLINA  3. CONTLINA  4. CONTLINA  5. CONTLINA  5. CONTLINA  7.	20 5 40 5		FAL FAC FAC FACW Ver 35/14	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.  Hydrophytic Vegetation
1. CAREX SE GRAVILLIMA 2. CHRITERA SEMPERATARIA 3. LONTERA JAPONILA 4. CARPINU CAROLINIANA 5. ARI (ALMA TRYPHYLIUM 6. 7. 8. 9. 10. 11. 12. Woody Vine Stratum (Plot size: 30'R) 1. SMIMA RIUNDIFULTA 2. CONTLINA  2. CONTLINA  2. CONTLINA  2. CONTLINA  3. CONTLINA  4. CONTLINA  5. CONTLINA  5. CONTLINA  7.	20 \$ 40 5 	Total Co	FAL FALL  Ver 35/14  FAL  FAL	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.  Hydrophytic Vegetation
1. CAREX SE GRAVILLIMA 2. CONTIGNA SEMPERATORNS 3. LONTIGNA JAPON ILA 4. CARPINU CAROLINIANA 5. ARI LAKMA TRYPHYLIUM 6. 7. 8. 9. 10. 11. 12. Woody Vine Stratum (Plot size: 30 R) 1. SMFLAI RIPUDI FULTA 2. CONTIGNA TRYPHYLIUM 4. 5. CONTIGNA TRYPHYLIUM 6. 6. 7. 8. 9. 10. 11. 12. 12. 13. VITTES ROTUNDI FOUCA 4. 5.	20 5 40 5 		FAL FALL  Ver 35/14  FAL  FAL	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.  Hydrophytic Vegetation
1. CAREX SE GRAVILLIMA 2. CARPINA SEMPERATORNS 3. LONTICA JAPON ILA 4. CARPINA CAROLINIANA 5. ARI (AKMA TRYPHYLIUM 6	20 5 40 5 70 5	Total Co	FAL FALL  Ver 35/14  FAL  FAL	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.  Hydrophytic Vegetation
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1. CAREK SE GRAVILVIMA 2. LONTIERA SEMPERATURENS 3. LONTIERA JAPON ILA 4. CARPINU CAROLINIANA 5. ARI (AKMA TRYPHYLIUM 6	20 5 40 5 70 5	Total Co	FAL FALL  Ver 35/14  FAL  FAL	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.  Hydrophytic Vegetation

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)epth	ption: (Describe Matrix	-					the absence of	mulcators.)		
inches)	Color (moist)	%	Color (moist)	edox Feature: %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	_		
7-4 1	104R 4/4	100	_				Logny		Remarks	
4-20 1	10 4R 5/6	100					COAMY	COArse		
		,		<del></del>			C 0 7419 T	COARNE	JANO	(WIGRAL
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ype: C=Cond	centration, D=Depl	etion, RM=F	Reduced Matrix,	MS=Masked	Sand Gra	ins.	Location: PL=F	ore Lining, M	1=Matrix.	
yarıc Soil ind	licators:						Indicato	rs for Proble	matic Hy	dric Soils <sup>3</sup> :
Histosol (A		4	Dark Surfa		(00) (55)		2 cm	n Muck (A10)	(MLRA 14	17)
Black Histic			Thin Dark	Below Surface Surface (S9)	Ce (S8) (MI	LRA 147, 1 17, 149)	-	st Prairie Red		
Hydrogen S	Sulfide (A4)		Loamy Gl	eyed Matrix (I	F2)	11, 140)		<b>ILRA 147</b> , 14 Imont Floodpl		F19\
Stratified La				Matrix (F3)				/ILRA 136, 14		. 10)
	(A10) <b>(LRR N)</b> selow Dark Surface	\/A11\		rk Surface (F				Parent Mater		
		(A11)	Depleted I	Dark Surface			Ven	/ Shallow Dar	k Surface	(TF12)
I INICK Dark	Surface (A12)				3/					
	Surface (A12) cky Mineral (S1) (L	RR N,	Redox De	pressions (F8		RR N.		er (Explain in		
Sandy Muc	cky Mineral (S1) (L 47, 148)	RR N,	Redox De Iron-Mang	pressions (F8 ganese Masse 136)	es (F12) <b>(L</b>					
Sandy Muc MLRA 14 Sandy Gley	cky Mineral (S1) (L 47, 148) yed Matrix (S4)	RR N,	Redox De Iron-Mang MLRA Umbric St	pressions (F8 ganese Masse 136) urface (F13) (	es (F12) (L MLRA 136	5, 122)	Othe ³Indica	er (Explain in - tors of hydror	Remarks)	etation and
Sandy Muc MLRA 14 Sandy Gley Sandy Red	cky Mineral (S1) (L 47, 148) yed Matrix (S4) lox (S5)	RR N,	Redox De Iron-Mang MLRA Umbric St	pressions (F8 ganese Masse 136)	es (F12) (L MLRA 136	5, 122)	Othe  3Indica wetl	er (Explain in - tors of hydror and hydrolog	Remarks)  ohytic vege y must be	etation and present,
Sandy Muc MLRA 14 Sandy Gley Sandy Red Stripped Ma	cky Mineral (S1) (L 47, 148) yed Matrix (S4) lox (S5)	RR N,	Redox De Iron-Mang MLRA Umbric St	pressions (F8 ganese Masse 136) urface (F13) (	es (F12) (L MLRA 136	5, 122)	Othe  3Indica wetl	er (Explain in - tors of hydror	Remarks)  ohytic vege y must be	etation and present,
Sandy Muc MLRA 14 Sandy Gley Sandy Red Stripped Maestrictive Lay	cky Mineral (S1) (L 47, 148) yed Matrix (S4) lox (S5) atrix (S6) yer (if observed): NA	RR N,	Redox De Iron-Mang MLRA Umbric St	pressions (F8 ganese Masse 136) urface (F13) (	es (F12) (L MLRA 136	5, 122)	Othe  3Indica wetl	er (Explain in - tors of hydror and hydrolog	Remarks)  ohytic vege y must be	etation and present,
Sandy Muc MLRA 14 Sandy Gley Sandy Red Stripped Ma	cky Mineral (S1) (L 47, 148) yed Matrix (S4) lox (S5) atrix (S6) yer (if observed): NA	RR N,	Redox De Iron-Mang MLRA Umbric St	pressions (F8 ganese Masse 136) urface (F13) (	es (F12) (L MLRA 136	5, 122)	Othe  3Indica wetl	er (Explain in tors of hydrop and hydrolog sss disturbed	Remarks)  ohytic vege y must be	etation and present,
Sandy Muc MLRA 14 Sandy Gley Sandy Red Stripped Ma estrictive Lay Type: Depth (inche	cky Mineral (S1) (L 47, 148) yed Matrix (S4) lox (S5) atrix (S6) yer (if observed): UA es): NA		Redox De Iron-Mang MLRA Umbric St Piedmont	pressions (F6 ganese Masse 136) urface (F13) ( Floodplain So	MLRA 136	5, 122) MLRA 148	Othe  Jindica  Weth  unle	er (Explain in tors of hydror and hydrolog ass disturbed resent? Ye	Remarks)  phytic vege y must be or problem	etation and present, latic.
Sandy Muc MLRA 14 Sandy Gley Sandy Red Stripped Ma estrictive Lay Type: Depth (inche	cky Mineral (S1) (L 47, 148) yed Matrix (S4) lox (S5) atrix (S6) yer (if observed): NA		Redox De Iron-Mang MLRA Umbric St	pressions (F6 ganese Masse 136) urface (F13) ( Floodplain So	es (F12) (L MLRA 136	5, 122) MLRA 148	Othe  3Indica  Wetle  unle	er (Explain in tors of hydrop and hydrolog sss disturbed	Remarks)  phytic vege y must be or problem	etation and present, latic.
Sandy Muc MLRA 14 Sandy Gley Sandy Red Stripped Ma estrictive Lay Type: Depth (inche	cky Mineral (S1) (L 47, 148) yed Matrix (S4) lox (S5) atrix (S6) yer (if observed): NA es): NA	na of	Redox De Iron-Mang MLRA Umbric St Piedmont	pressions (F6 ganese Masse 136) urface (F13) ( Floodplain So	MLRA 136	5, 122) MLRA 148	Othe  Jindica  Weth  unle	er (Explain in tors of hydror and hydrolog ass disturbed resent? Ye	Remarks)  phytic vege y must be or problem	etation and present, latic.
Sandy Muc MLRA 14 Sandy Gley Sandy Red Stripped Ma estrictive Lay Type: Depth (inche	cky Mineral (S1) (L 47, 148) yed Matrix (S4) lox (S5) atrix (S6) yer (if observed): NA es): NA		Redox De Iron-Mang MLRA Umbric St Piedmont	pressions (F6 ganese Masse 136) urface (F13) ( Floodplain So	MLRA 136	5, 122) MLRA 148	Othe  Jindica  Weth  unle	er (Explain in tors of hydror and hydrolog ass disturbed resent? Ye	Remarks)  phytic vege y must be or problem	etation and present, latic.
Sandy Muc MLRA 14 Sandy Gley Sandy Red Stripped Ma estrictive Lay Type: Depth (inche	cky Mineral (S1) (L 47, 148) yed Matrix (S4) lox (S5) atrix (S6) yer (if observed): NA es): NA	na of	Redox De Iron-Mang MLRA Umbric St Piedmont	pressions (F6 ganese Masse 136) urface (F13) ( Floodplain So	MLRA 136	5, 122) MLRA 148	Othe  Jindica  Weth  unle	er (Explain in tors of hydror and hydrolog ass disturbed resent? Ye	Remarks)  phytic vege y must be or problem	etation and present, latic.
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Sandy Muc MLRA 14 Sandy Gley Sandy Red Stripped Ma estrictive Lay Type: Depth (inche	cky Mineral (S1) (L 47, 148) yed Matrix (S4) lox (S5) atrix (S6) yer (if observed): NA es): NA	na of	Redox De Iron-Mang MLRA Umbric St Piedmont	pressions (F6 ganese Masse 136) urface (F13) ( Floodplain So	MLRA 136	5, 122) MLRA 148	Othe  Jindica  Weth  unle	er (Explain in tors of hydror and hydrolog ass disturbed resent? Ye	Remarks)  phytic vege y must be or problem	etation and present, latic.
Sandy Muc MLRA 14 Sandy Gley Sandy Red Stripped Ma estrictive Lay Type: Depth (inche	cky Mineral (S1) (L 47, 148) yed Matrix (S4) lox (S5) atrix (S6) yer (if observed): NA es): NA	na of	Redox De Iron-Mang MLRA Umbric St Piedmont	pressions (F6 ganese Masse 136) urface (F13) ( Floodplain So	MLRA 136	5, 122) MLRA 148	Othe  Jindica  Weth  unle	er (Explain in tors of hydror and hydrolog ass disturbed resent? Ye	Remarks)  phytic vege y must be or problem	etation and present, latic.
Sandy Muc MLRA 14 Sandy Gley Sandy Red Stripped Ma strictive Lay Type: Depth (inche	cky Mineral (S1) (L 47, 148)  yed Matrix (S4)  lox (S5)  atrix (S6)  yer (if observed):  NA  es):  NA  TNOT CA  TRIST TO	na of	Redox De Iron-Mang MLRA Umbric St Piedmont  HYPR I	pressions (F6 ganese Masse 136) urface (F13) (Floodplain Sc	es (F12) (L MLRA 136 pils (F19) (	122) MLRA 148	I Other	er (Explain in tors of hydrogen and hydrologens disturbed of the tors of hydrologens disturbed of the tors of the	Remarks)  phytic vege y must be or problem  c # / c o	etation and present, latic.
Sandy Muc MLRA 14 Sandy Gley Sandy Red Stripped Ma estrictive Lay Type: Depth (inche	cky Mineral (S1) (L 47, 148)  yed Matrix (S4)  lox (S5)  atrix (S6)  yer (if observed):  NA  es):  NA  TNOT CA  TRIST TO	na of	Redox De Iron-Mang MLRA Umbric St Piedmont  HYPR I	pressions (F6 ganese Masse 136) urface (F13) (Floodplain Sc	es (F12) (L MLRA 136 pils (F19) (	5, 122) MLRA 148	I Other	er (Explain in tors of hydror and hydrolog ass disturbed resent? Ye	Remarks)  phytic vege y must be or problem  c # / c o	etation and present, latic.
Sandy Muc MLRA 14 Sandy Gley Sandy Red Stripped Ma estrictive Lay Type: Depth (inche	cky Mineral (S1) (L 47, 148)  yed Matrix (S4)  lox (S5)  atrix (S6)  yer (if observed):  NA  es):  NA  TNOT CA  TRIST TO	na of	Redox De Iron-Mang MLRA Umbric St Piedmont  HYPR I	pressions (F6 ganese Masse 136) urface (F13) (Floodplain Sc	es (F12) (L MLRA 136 pils (F19) (	122) MLRA 148	I Other	er (Explain in tors of hydrogen and hydrologens disturbed of the tors of hydrologens disturbed of the tors of the	Remarks)  phytic vege y must be or problem  c # / c o	etation and present, latic.
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Sandy Muc MLRA 14 Sandy Gley Sandy Red Stripped Ma estrictive Lay Type: Depth (inche	cky Mineral (S1) (L 47, 148)  yed Matrix (S4)  lox (S5)  atrix (S6)  yer (if observed):  NA  es):  NA  TNOT CA  TRIST TO	na of	Redox De Iron-Mang MLRA Umbric St Piedmont  HYPR I	pressions (F6 ganese Masse 136) urface (F13) (Floodplain Sc	es (F12) (L MLRA 136 pils (F19) (	122) MLRA 148	I Other	er (Explain in tors of hydrogen and hydrologens disturbed of the total and the total a	Remarks)  phytic vege y must be or problem  c # / c o	etation and present, latic.
Sandy Muc MLRA 14 Sandy Gley Sandy Red Stripped Ma estrictive Lay Type: Depth (inche	cky Mineral (S1) (L 47, 148)  yed Matrix (S4)  lox (S5)  atrix (S6)  yer (if observed):  NA  es):  NA  TNOT CA  TRIST TO	na of	Redox De Iron-Mang MLRA Umbric St Piedmont  HYPR I	pressions (F6 ganese Masse 136) urface (F13) (Floodplain Sc	es (F12) (L MLRA 136 pils (F19) (	122) MLRA 148	I Other	er (Explain in tors of hydrogen and hydrologens disturbed of the total and the total a	Remarks)  phytic vege y must be or problem  c # / c o	etation and present, latic.
Sandy Muc MLRA 14 Sandy Gley Sandy Red Stripped Ma estrictive Lay Type: Depth (inche	cky Mineral (S1) (L 47, 148)  yed Matrix (S4)  lox (S5)  atrix (S6)  yer (if observed):  NA  es):  NA  TNOT CA  TRIST TO	na of	Redox De Iron-Mang MLRA Umbric St Piedmont  HYPR I	pressions (F6 ganese Masse 136) urface (F13) (Floodplain Sc	es (F12) (L MLRA 136 pils (F19) (	122) MLRA 148	I Other	er (Explain in tors of hydrogen and hydrologens disturbed of the total and the total a	Remarks)  phytic vege y must be or problem  c # / c o	etation and present, latic.
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Sandy Muc MLRA 14 Sandy Gley Sandy Red Stripped Ma estrictive Lay Type: Depth (inche	cky Mineral (S1) (L 47, 148)  yed Matrix (S4)  lox (S5)  atrix (S6)  yer (if observed):  NA  es):  NA  TNOT CA  TRIST TO	na of	Redox De Iron-Mang MLRA Umbric St Piedmont  HYPR I	pressions (F6 ganese Masse 136) urface (F13) (Floodplain Sc	es (F12) (L MLRA 136 pils (F19) (	122) MLRA 148	I Other	er (Explain in tors of hydrogen and hydrologens disturbed of the total and the total a	Remarks)  phytic vege y must be or problem  c # / c o	etation and present, latic.



Upland data point wnok010\_u facing North



Upland data point wnok010\_u facing South



Upland data point wnok010\_u soil sample

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

Project/Site: ACP	City/County:	NOTTOWORL	7 Sampling	Date: 7/7/16
Applicant/Owner: COMINION		State	: Un Sampling	Point: wnok 010-4
EST-1 BORRIS K. MUTP	4189 Section Tow	mshin Range Nt	t	The state of the s
Landform (hillslope, terrace, etc.): WILLSlope Subregion (LRR or MLRA): LRR P	Local relief (c	concave, convex, none	: convex	_ Slope (%): 2-4
Subregies (LRR of MLRA): LRR C	Lat 37, 18113	Long: -72	8.05554	Datum: W65 8
Soil Map Unit Name: Mixed allavial	1000	20.9	NWI classification:	
Are climatic / hydrologic conditions on the site typical for	this time of year? Var. V			
			umstances" present?	res No
Are Vegetation, Soil, or Hydrology Are Vegetation, Soil, or Hydrology			in any answers in Rema	
SUMMARY OF FINDINGS – Attach site ma				
	1/-		5 West 25 Line (C. L. Con. )	
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes	No within	Sampled Area n a Wetland?	Yes No	/
Wetland Hydrology Present? Yes	No_V			
HYDROLOGŸ			andon Indiana a Imini	num of two required)
Wetland Hydrology Indicators:		The second secon	ondary Indicators (mini	[12] [12] 전 (Table 12] 12 (Table 12) (Table 12) [12] [12]
Primary Indicators (minimum of one is required; check a			Surface Soil Cracks (B	
	tic Fauna (B13)		Sparsely Vegetated Co Drainage Patterns (B1	
The Control of the Co	Deposits (B15) (LRR U) ogen Sulfide Odor (C1)		Moss Trim Lines (B16)	
	zed Rhizospheres along Li	ving Roots (C3)	Dry-Season Water Tab	
1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	ence of Reduced Iron (C4)		Crayfish Burrows (C8)	
A CONTRACT AND ADDRESS AND ADD	nt Iron Reduction in Tilled		Saturation Visible on A	대통령 (10 Text) 이 10 전(2010) (10 Text) - 10 Text (10 Text) - 10 Tex
The second secon	Muck Surface (C7)		Geomorphic Position (	D2)
(2) (1) (2) (2) (2) (3) (3) (3) (3) (3) (3) (3) (3) (3) (3	r (Explain in Remarks)	The second secon	Shallow Aquitard (D3) FAC-Neutral Test (D5)	
Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)		-	Sphagnum moss (D8)	
Field Observations:			TREE TREES TO THE PROPERTY OF	A restriction of the second of
Surface Water Property Ves No /	Depth (inches): NA			
Water Table Present? Yes No	Depth (inches): >2011			
Saturation Present? Yes No Ves I	Depth (inches): 7 2011	Wetland Hydr	ology Present? Yes	No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring we	II, aerial photos, previous in	nspections), if available	e:	
Demode		andronal and the second	and the second s	
Remarks:				

% Cover	Dominant Species?	Status	Dominance Test worksheet:  Number of Dominant Species That Are OBL, FACW, or FAC: (A)
10		FACW	Total Number of Dominant Species Across All Strata: (B)
			Percent of Dominant Species That Are OBL, FACW, or FAC: 29 (A/B)
			Prevalence Index worksheet:
			Total % Cover of: Multiply by:
30	= Total Cov	ver	OBL species x1 = O
			FACW species 10 x 2 = 20  FAC species 5 x 3 = 15
	. ,		FAC species x3=
5_	<u> </u>	FACU	FACU species
5	<u>Y</u>	_	Column Totals: 55 (A) 195 (B)
2	7	-	Octobrill Totals.
5	<u> </u>	Accompany of the A	Prevalence Index = B/A = 3.55
			Hydrophytic Vegetation Indicators:
			1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%
	1.100	10.10.10.10	3 - Prevalence Index is ≤3.0¹
20	= Total Cov	/er	Problematic Hydrophytic Vegetation¹ (Explain)
			<sup>1</sup> Indicators of hydric soil and wetland hydrology must
r - 1 - 1 d - 1			be present, unless disturbed or problematic.
			Definitions of Four Vegetation Strata:
			Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
			more in diameter at breast height (DBH), regardless of height.
			Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
100 March 2012			Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
100000			Woody vine – All woody vines greater than 3.28 ft in height.
			110.3
	-		
0 :	= Total Co	ver	
WYTER AREAST STREET	= Total Cover		
WYTER AREAST STREET			
_ 20% of			Hydrophytic
_ 20% of		FAC	Hydrophytic Vegetation Present?  Yes No
	30 20% of	30 = Total Cover 5 / 5 / 5 / 5 / 5 / 5 / 5 / 5 / 5 / 5	30 = Total Cover 20% of total cover: 6  5

	Matrix			Features	cr confirm the a	xture	Remarks
-20	Color (moist)	160	Color (moist)	%Type¹	Loc	5	remains
pe: C=C Iric Soil Histosol	oncentration, D=Dep Indicators: (Applic	letion, RM=Re	Rs, unless other Polyvalue Be	s=Masked Sand Gra wise noted.) low Surface (S8) (L rface (S9) (LRR S,	Ind RRS, T, U)	dicators for 1 cm Muc 2 cm Muc	=Pore Lining, M=Matrix. r Problematic Hydric Soils³: k (A9) (LRR O)
Black H Hydroge Stratifie Organic 5 cm Mu Muck Pi	istic (A3) en Sulfide (A4) d Layers (A5) Bodies (A6) (LRR P Joky Mineral (A7) (Li resence (A8) (LRR U Jok (A9) (LRR P, T)	RR P, T, U)	Loamy Gleye Depleted Mal Redox Dark S Depleted Dar Redox Depre Mari (F10) (L	rix (F3) Surface (F6) k Surface (F7) ssions (F8) RR U)	<u> </u> 	Piedmont Anomalou (MLRA Red Pare Very Sha	Vertic (F18) (outside MLRA 150A,B Floodplain Soils (F19) (LRR P, S, T) us Bright Loamy Soils (F20) 153B) int Material (TF2) Illow Dark Surface (TF12) splain in Remarks)
Deplete Thick D Coast P Sandy N Sandy N Sandy F Stripped Dark St	d Below Dark Surfacerk Surface (A12) rairie Redox (A16) (I Mucky Mineral (S1) (I Gleyed Matrix (S4) Redox (S5) I Matrix (S6) Irface (S7) (LRR P, S	MLRA 150A)   LRR O, S)	Iron-Mangan Umbric Surfa Delta Ochric Reduced Ver Piedmont Flo	nric (F11) (MLRA 1: ese Masses (F12) ( ce (F13) (LRR P, T (F17) (MLRA 151) tic (F18) (MLRA 15 eodplain Soils (F19) dright Loamy Soils (	LRR O, P, T) , U) 0A, 150B) (MLRA 149A)	wetlar unless	ors of hydrophytic vegetation and hydrology must be present, a disturbed or problematic.
Туре:	Layer (if observed)		-		Hu	dric Soil P	resent? Yes No
Depth (ir marks:	iches):				l ny	dric soil F	BESTITE TO STATE OF THE STATE O

#### Environmental Field Surveys Wetland Photo Page



Upland data point wnok010\_u2 facing east.



Upland data point wnok010\_u2 facing south.

Project/Site:	SERP	City/County:	NOTTOWAY	;	Sampling Date: 09/19/20/
1 10,000 01.0.				tate: VA	Sampling Point: WNUKO//E
Applicant/Owner:	T. SWEITTER	Section Town	nship, Range:	NA	
	terrace, etc.): STREAM BED / FLOOR			NONE	Slope (%): 2-5
		51.119354441	Long - 78.0	5363973	Datum: NAO 1933
Subregion (LRR or I		EKODED HILLY P	1, 15	NWI classifica	
Soil Map Unit Name	/			o, explain in Re	· ·
Are climatic / hydrol	ogic conditions on the site typical for th	is time of year? Yes	/_ No(II N		esent? Yes <u> </u>
Are Vegetation	, Soil, or Hydrology		,		
Are Vegetation	, Soil, or Hydrology		(If needed, expl		
SUMMARY OF	FINDINGS - Attach site map	showing sampling	point locations	, transects,	important features, etc.
Hydrophytic Vege Hydric Soil Preser Wetland Hydrolog	rt? Yes 6	No within	Sampled Area a Wetland?		_ No _O
Remarks: POI	NT ESTABLISHED ON	ALLUDIAL DED	UIT ALONG	STREAM	CHANNEL NARAOW
LIETCAND	CONSTRATIVED WETH IN	INCITED BANK	S. PEA VE	ELETATION	WITH IN
WETLAND	UPLAIND FORIST DOMEN	ATES JURROUND	ING LANDSO	APE ALL	3 CRITICIA.
MET.	PHOTOS: 100-0068+				,
HYDROLOGY					:
Wetland Hydrolo	ogy Indicators:		Se	condary Indicat	ors (minimum of two required)
-	s (minimum of one is required; check al	I that apply)		Surface Soil 0	Cracks (B6)
Surface Wate		ue Aquatic Plants (B14)		Sparsely Veg	etated Concave Surface (B8)
High Water T	able (A2)	drogen Sulfide Odor (C1)	L	Drainage Pat	
Saturation (A	· —	idized Rhizospheres on Li		Moss Trim Lir	
Water Marks		esence of Reduced Iron (C	•	4 1	Vater Table (C2)
Sediment De		cent Iron Reduction in Till in Muck Surface (C7)	ed Solis (Cb)	Crayfish Burro	sible on Aerial Imagery (C9)
Drift Deposits Algal Mat or 0	· · · · · · · · · · · · · · · · · · ·	ner (Explain in Remarks)		<b>-</b>	ressed Plants (D1)
Iron Deposits		, ( <u>— ) ja 1</u>	1 1	Geomorphic I	` '
	sible on Aerial Imagery (B7)	· ·		Shallow Aquit	ard (D3)
Water-Staine	d Leaves (B9)			<b>-</b>	ohic Relief (D4)
Aquatic Faun	a (B13)			FAC-Neutral	Test (D5)
Field Observatio		enth (inches). NA			
Surface Water Pre		epui (inches).			
Water Table Prese		epth (inches): 72 epth (inches): 0		rology Present	? Yes V No
Saturation Presen (includes capillary		eptin (inches):	wetland Hyd	rology Presem	.r res No
	ed Data (stream gauge, monitoring well	, aerial photos, previous in	spections), if availab	ole:	
Remarks: SEL	ERAL PRIMARY AND	SELONDARY INC	ILATORS OF	F WETLA	NO HYDROLDLY
OBJERVED.			,, 3		
					·
			,		
					* * *
	•				

Sampling Point: WNOKOILE\_ W VEGETATION (Five Strata) - Use scientific names of plants. Absolute Dominant Indicator Tree Stratum (Plot size: 5 Fi R ) Dominance Test worksheet: % Cover Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: Multiply by: 0 \_\_ = Total Cover Sapling Stratum (Plot size: 5FTR ) OBL species \_\_\_\_\_ x 1 = 1 FACW species \_\_\_\_\_ x 2 = 1 \_\_\_\_ x 3 = 1 FAC species FACU species x 4 = 1\_\_\_\_ x 5 = <u>1</u> UPL species 5.

Frevalence Index = B/A =    Prevalence Index = B/A =
Shrub Stratum (Plot size: 5 FT R )
1. NA  1. NA  2. Dominance Test is >50%  3. Prevalence Index is ≤3.0¹  4. Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)  5. Droblematic Hydrophytic Vegetation¹  1. AMPHICARPACA BRACIEATA  2. BSEHMERIA CYMNORICA  1. Rapid Test for Hydrophytic Vegetation  1. Provide supporting data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation¹ (Explain)  1. Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
1. N/A  2. Dominance Test is >50%  3. Prevalence Index is ≤3.0¹  4. Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)  5. Problematic Hydrophytic Vegetation¹ (Explain)  6. Problematic Hydrophytic Vegetation¹ (Explain)  1. MPHICARPACA BRACICATA  50 Y FAC  2. BSEHMERSA CYUSNOSICA  7. Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
2
4
4
5 Problematic Hydrophytic Vegetation¹ (Explain) 6
6.  7.  Herb Stratum (Plot size: 5 FT R)  1. AMPHICARPAEA BRAUIATA  2. BSEHMERIA CYUINDRICA  1. Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
7
Herb Stratum (Plot size: 5 FT R)  1. AMPHICARPACA BRAULATA 2. BSEHMERLA CYUINDRICA  TO N FALW  Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
1. HMPHICARPACA BRAULATA 50 Y FAL Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
2. BOEHMERLA CYLENDRICA TO N FALW approximately 20 ft (6 m) or more in height and 3 in.
(7 6 cm) or lower in discrete at 1 1 1 1 (5 D)
3. (AKEX )V. (100 FROME)
approximately 20 ft (6 m) or more in height and less
6 than 3 in. (7.6 cm) DBH.
7 Shrub – Woody plants, excluding woody vines.
8 approximately 3 to 20 ft (1 to 6 m) in height.
9 Herb – All herbaceous (non-woody) plants, including
herbaceous vines, regardless of size, and woody
10
40
Woody vine – All woody vines, regardless of height.
Woody Vine Stratum (Plot size: 5 FT R )
1. <u>NA</u>
2
3.
5
0 = Total Cover
Remarks: (Include photo numbers here or on a separate sheet.)
PLOT SLUE CIMITED DUE TO LINEAR NATURE OF WETLAND VEHETATION PAIR
DOMSHAHUK TEST.

Depth	(2000)	to the dep	in needed to	accumont tin	o illaioatoi	or commi	n the absence o	of indicators.)		
inches)	Matrix Color (moist)	%	Color (moi	Redox Featurest) %	resType <sup>1</sup>	Loc <sup>2</sup>	Texture	Do	ma dea	
A 7	-10TK 4/T		Color (IIIo	St)	iype	Loc	rexture	Re	marks	-
0-7	54R 4/6	50	10 YR 4	30	- <del>-</del> 0	m	LOAMY	COARIE	CANO	-
7-18	2.54 5/1	60	5 YR 3		- <del>- 0</del>			EOARSE		-
7 18	10 4R 311	30				<u>_</u>			,	
	10 110 711	<u></u>	HTRS	<del></del>			OK(AA	IC MATEC	· · · · · · · · · · · · · · · · · · ·	-   -
								7.7	OF ALLUVE	g n
7										-
										-
										_
			-							
					1				D.	
ype: C=C	oncentration, D=Depl	letion, RM	=Reduced Ma	rix, MS=Mask	ed Sand Gr	ains.	<sup>2</sup> Location: PL=	Pore Lining, M=	Matrix.	
_	Indicators:								natic Hydric Soils³:	
Histosol				Surface (S7)				m Muck (A10) (N		
	oipedon (A2) stic (A3)			lue Below Sur				ast Prairie Redo	` '	
	en Sulfide (A4)			ark Surface (S Gleyed Matrix		147, 148)		( <b>MLRA 147, 148</b> edmont Floodplai	,	
	d Layers (A5)	٠.		ed Matrix (F3)				(MLRA 136, 147		
2 cm Mu	ick (A10) (LRR N)	,		Dark Surface				d Parent Materia		
	d Below Dark Surface	e (A11)	_	ed Dark Surfa	, ,			ry Shallow Dark		
-	ark Surface (A12)			Depressions (			Oth	ner (Explain in R	emarks)	
	Mucky Mineral (S1) ( <b>L</b> <b>A 147, 148)</b>	RR N,		anganese Mas RA 136)	sses (F12) (	LRR N,				
	Gleyed Matrix (S4)			Surface (F13	) (MLRA 13	6. 122)	3Indic	ators of hydroph	ytic vegetation and	
	Redox (S5)			ont Floodplain					must be present,	
	Matrix (S6)		_		, ,			ess disturbed or		
Type: Depth (incernaries:	NA ches): NA			····		عت.	Hydric Soil P	resent? Yes	<u> </u>	_ .
marks.					, /				;	
- Z				Y EFTE	118					٤.
			5	X /						
			3020							
		_								i
							-			
,						(ب		<i>_</i>		
•					ن پرين	11e-W	/			
					Musik	ne in				
					Mnak	ne in	WNON O	li_U		
	The state of the s	_		<u> </u>	MNOKE	ile.w	WNON O		(O)2	,
	V V				Mnake	We w	WNOK O		(0)3	
	1	www.	11-11		Mnak	W. W.	₩ WNON O		(0)3	
	WWKOII-IZ	www.	II-II	<u></u>	MASIK	W. W.	WNER O	NSON		
	1	www.ko	il-li STREME	<u> </u>	MNake	y w	WNER O	NSON		
	WWKOII-IZ	www.ko	ii-ti straight		Mnake	We w	WNER O	NSON		
	WWKOII-IZ	www.	11-11 STREPH		MNOKE	W. Jan.	WNER O	NSON		
	WWKOII-IZ	www.	11-11 STREME	<u>(</u>	MNSK	w w	WNER O			
	WWKOII-IZ	www.	II-II STREPPE		MNake	Je w	WASH OF THE PRINCIPLE O	NSOM DEVEN EXTE		
	WWKOII-IZ	www.ko	ni-ti o straight		Mnalk	y w	WAS NO IN THE WAS NOT THE WAS	NSOM DEVEN EXTE ADWATER		
150 F	WWOK DII-IZ TO STAKAN	www.	11-11 STREPH		MNOKE	W W	WAS NO IN THE WAS NOT THE WAS	NSOM DEVEN EXTE		



Wetland data point wnok011e\_w facing South



Wetland data point wnok011e\_w facing West



Wetland data point wnok011e\_w soil sample

Project/Site: SEL P	City/County: NOTTOW	AY	Sampling Date: 08/19/2014
Applicant/Owner: DOMENION		State: VA	Sampling Point: W/U0KOII
Investigator(s): J. SWETTLER	_ Section, Township, Range:	111	
investigator(s).	ocal relief (concave, convex,		Slope (%): 3-5
Landform (hillslope, terrace, etc.): TECAACK L	261.1	78.0536594	VI Date (76). 0
Subregion (LRR or MLRA): CRRP Lat: 37.17912 Soil Map Unit Name: Wares SANDY LOAG 2015	HELLY PHASE (Wh)		114
		NWI classifica	auon.
Are climatic / hydrologic conditions on the site typical for this time of			
Are Vegetation, Soil, or Hydrology significant	ly disturbed? Are "Nor	mal Circumstances" p	resent? Yes <u>@</u> No <u></u>
Are Vegetation, Soil, or Hydrology naturally p	problematic? (If neede	d, explain any answer	s in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing	ng sampling point loca	tions, transects,	important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?  Yes	Is the Sampled Are within a Wetland?	ea Yes <u>O</u>	No <u>@</u>
Remarks: POINT ESTABLEIA ED ON UPLAND	TELAALE ADJAC	SENT TO IN	TERMITTENT
	OKOIL		
The state of the s			
Pilott) H / 100 mm/			
PHOTO H! 100-0066 to 0070	,	r	
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicat	tors (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply		_ U Surface Soil (	Cracks (B6)
Surface Water (A1)	, ,		etated Concave Surface (B8)
	Ifide Odor (C1)	Drainage Patt	
	zospheres on Living Roots (C Reduced Iron (C4)	· ====	Vater Table (C2)
	Reduction in Tilled Soils (C6)	Crayfish Burro	` '
Drift Deposits (B3)	, .		sible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Other (Explain	n in Remarks)	Stunted or Str	ressed Plants (D1)
Iron Deposits (B5)		Geomorphic F	, ,
Inundation Visible on Aerial Imagery (B7)	•	Shallow Aquit	• • • •
Water-Stained Leaves (B9) Aquatic Fauna (B13)	3 . <b></b>		phic Relief (D4)
Field Observations:		FAC-Neutral	Test (D5)
Surface Water Present? Yes No Depth (inche	is). NA		
Water Table Present? Yes No Depth (inche	/ A		
Saturation Present? Yes No Depth (inche		d Hydrology Present	t? Yes No
(includes capillary fringe)		<del></del>	, 5.
Describe Recorded Data (stream gauge, monitoring well, aerial pho	otos, previous inspections), it	avallable:	
Remarks:	IPROLOGY PRESEN		
NO INDICATORS OF WETLAND H	PROLOVY PRESEN	7	
	. * :		:
		м	• • • • • •
	•		
			*
	•		
			• • •

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

Sampling Point: WNOKOII \_ U

Tree Stratum (Plot size: 30 7 )	Absolute		t Indicator	Dominance Test worksheet:
1. LEQUIDAMBAR ITYRACIFLUA	<u>% Cover</u> <b>40</b>	Species	? Status FAC	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2. I IR TODENDROW TOUTPERER	50		FALU	That Are OBL, FACW, or FAC: (A)
3. JULIANS NIGRA		, id	FACU	Total Number of Dominant
4. ALEA RUBRUM	10	N	FAC	Species Across All Strata: (B)
5. CERCES CANADENGEI	- 15	~		Percent of Dominant Species
		N	FAW	That Are OBL, FACW, or FAC: 75 (A/B)
6. <u>Quanto</u> / 1001-3	10_	10	FACU	Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
Sapling Stratum (Plot size: 15'R)	0 135	= Total Co	over 68/27	OBL species x1 = 1
1. CARPINUI CAROLINTANA	20	7	=Av	
2. FRAFINS PENSYMANTICA	10		FAC	FACW species x 2 = 1
		Y	FACW	FAC species x 3 =
3		-	· ——	FACU species x 4 = _1
4				UPL species x 5 = _1
5				Column Totals: 0 (A) 5 (B)
6				
7				Prevalence Index = B/A =
ا سر ا سر ا سر ا ا ا ا	0 30	= Total Co	over 15/6	Hydrophytic Vegetation Indicators:
Shrub Stratum (Plot size: 15 17)				1 - Rapid Test for Hydrophytic Vegetation
1. CARPINUS CAROCINIA NA	60	Y	FAC	2 - Dominance Test is >50%
2. FRAXINUI PEN)YLVANILA	5	N	FACW	3 - Prevalence Index is ≤3.0¹
3				4 - Morphological Adaptations (Provide supporting
4				data in Remarks or on a separate sheet)
5.				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
6.				7
7.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
	865	Tatal O	over 33/13	be present, unless disturbed or problematic.
Herb Stratum (Plot size: 5'R		- Total Co	over 33/13	Definitions of Five Vegetation Strata:
1. POLYSTECHUM ACADSTECHOEDES	60	Y	FAW	Tree – Woody plants, excluding woody vines,
2. FRAXINUS PENSYLVANIO		M	FAW	approximately 20 ft (6 m) or more in height and 3 in.
3. FRAHARIA VIZLENSANA		$\sim$	FAW	(7.6 cm) or larger in diameter at breast height (DBH).
4. HUVLARED PERFOLIDAR		N	FAU	Sapling – Woody plants, excluding woody vines,
			1.30	approximately 20 ft (6 m) or more in height and less
5				than 3 in. (7.6 cm) DBH.
6			<del></del>	Shrub – Woody plants, excluding woody vines,
7		·		approximately 3 to 20 ft (1 to 6 m) in height.
8		-		Harb All barbasassa (nan usa da) alauta isaladia a
9				Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
10				plants, except woody vines, less than approximately
11				3 ft (1 m) in height.
12		<b></b>		Woody vine - All woody vines, regardless of height.
2.12	075	= Total Co	over 3/15	The state of the s
Woody Vine Stratum (Plot size: 30 'K)				
1. VITEL ROTUNDIFOLIA	_ <u>. 5</u>	Y	FAC.	
2. CAMPSEL RAOT CONS	5	_[7]	FAC	
3				
4				Hydrophytic
5.				Vegetation Present? Yes No
	0 10	= Total Co	over 5/2	163
Pomorko: (Includo photo numbers have a service		, otal ot		
Remarks: (Include photo numbers here or on a separate	•			
VELGIATEON PASICI DOMINANCE	TEST.			
		•		
I		•		

CC	M

Sampling Point WNOK OIL U

Profile Description:	(Describe to the de	oth needed to docu	ment the ind	icator or confir	m the absence	o of indicate	ampling Point:	701( 011_0
Depth	Matrix	Redo	x Features .			c of indicate	113.)	
	r (moist)	Color (moist)		Type <sup>1</sup> Loc <sup>2</sup>	Texture		Remarks	
	R 4/2 100					Loan	w/ organic	Mak
						Loan		
	TR 4/16 \$0	<del></del>		<u> </u>	Sanda	Loga	winice	<b>}</b> .
					·			
<u> </u>								
		Ey ,						
					, —			-
				2 0			·	
<sup>1</sup> Type: C=Concentrati	on D-Donletion RM	-Doduced Metric M			·	·		
<sup>1</sup> Type: C=Concentrati	s:	=Reduced Matrix, M	S=Masked Sa	ind Grains.	<sup>2</sup> Location: P	L=Pore Linin	g, M=Matrix.	
Histosol (A1)		Dark Surface	(\$7)		. —		oblematic Hydric S	Soils":
Histic Epipedon (A	N2)			(S8) <b>(MLRA 14</b> 7	. 148)	cm iviuck (A Coast Prairie	10) <b>(MLRA 147)</b> Redox (A16)	- 1
Black Histic (A3)		Thin Dark Su	rface (S9) (M	LRA 147, 148)	, ,	(MLRA 14		
Hydrogen Sulfide Stratified Layers (			d Matrix (F2)		, L		odplain Soils (F19)	
2 cm Muck (A10)		Depleted Ma			·	(MLRA 130		
	ark Surface (A11)	Redox Dark	ъипасе (F6) k Surface (F7	7)			laterial (TF2)	
Thick Dark Surface		Redox Depre		')	H )	ery Snallow	Dark Surface (TF1: n in Remarks)	2)
Sandy Mucky Min	eral (S1) (LRR N,			F12) (LRR N,	Ш,	otriei (Expiaii	rin Remarks)	
MLRA 147, 148	,	MLRA 13	6)	7		•		
Sandy Gleyed Ma		Umbric Surfa	ce (F13) (ML	RA 136, 122)	· ¹Inc	dicators of hy	drophytic vegetatio	n and
Sandy Redox (S5 Stripped Matrix (S		Piedmont Flo	odplain Soils	(F19) (MLRA 1			logy must be prese	ent,
Restrictive Layer (if o						inless disturb	ed or problematic.	
	VA						•	
Depth (inches):	NA				Hydric Soil	Present?	Vas O No	<b>®</b>
Remarks:						,		
λ/∘ .	INDICATORS	of iten	ric .s	OILS F	PRESENT	DUE	TO HECK	7
CHADMA	MATRIX 7	20"		· ·				
	,		7	÷		, •		
			,					-
		. •	(*)					
	SEE SP	ETCH ON	Moon of	16-M	DATA	FORM.		
								·e
		.,						
		*•						
			2 P				,	
		•						
					*			



Upland data point wnok011\_u facing North



Upland data point wnok011\_u facing South



Upland data point wnok011\_u soil sample

Project/Site:	'AP	City/0	County: NOTTOWA	<b>4</b> Sam	pling Date: 08/19/7019
Applicant/Owner: 0	NOTNION				ampling Point: WNOK 012
Investigator(s): 3.	SWEITLEL	. Secti	on, Township, Range:		ampling Politi.
Landform (hillslope, terrac	ce, etc.): TOE-OF-				Slope (%): /-3
Subregion (LRR or MLRA	ERRP	at: 37, 17633115			Datum: NAD 198
	UKES SANDY WAN			NWI classification:	
	onditions on the site typica	. •			
	pil, or Hydrology _				
					nt? Yes <u>@</u> No <u></u>
	oil, or Hydrology _			, explain any answers in I	· · · · · · · · · · · · · · · · · · ·
SUMMARY OF FINE	DINGS – Attach site	map showing sar	npling point locat	ions, transects, im	portant features, etc.
Hydrophytic Vegetation	Present? Yes	No O			•
Hydric Soil Present?	Yes_		Is the Sampled Area within a Wetland?	a Yes <b>@</b> _ ≀	
Wetland Hydrology Pres	ent? Yes 🕻	No	within a vvetiality	res	10
Remarks: Posit	ESTABLESHED	AT TOE-OF-SI	opë in fl	DODPLAZIV WE	TLAWS THAT
Is LIKELY 1	ocared in a	REULC STRI	EANN CHANNEL	OR STOR C	
			5/11-1 5/1/3/101-12-5		
PHOTOS 100-004	7 to 0081			·	
HYDROLOGY					
Wetland Hydrology Inc	licators:			Secondary Indicators (	minimum of two required)
Primary Indicators (mini	num of one is required; ch	eck all that apply)		Surface Soil Crack	
Surface Water (A1)		True Aquatic Plants	(B14)		d Concave Surface (B8)
High Water Table (A	(2)	Hydrogen Sulfide Od		Drainage Patterns	, ,
Saturation (A3)	<u> </u>	_	es on Living Roots (C3	) Moss Trim Lines (I	B16)
Water Marks (B1)	(00)	Presence of Reduce	, ,	Dry-Season Water	
Sediment Deposits Drift Deposits (B3)	(B2)	Thin Muck Surface (	on in Tilled Soils (C6)	Crayfish Burrows (	,
Algal Mat or Crust (	B4)	Other (Explain in Re	•	Saturation Visible Stunted or Stresse	on Aerial Imagery (C9)
Iron Deposits (B5)			indiko)	Geomorphic Positi	
Inundation Visible o	n Aerial Imagery (B7)			Shallow Aquitard (	
Water-Stained Leav	· , '			Microtopographic I	
Aquatic Fauna (B13	)			FAC-Neutral Test	(D5)
Field Observations:			A11		
Surface Water Present?		Depth (inches):	100	•	
Water Table Present?	Yes O No C	Depth (inches): Depth (inches):	NA Wetland		
Saturation Present? (includes capillary fringe	)			I Hydrology Present?	Yes No
Describe Recorded Data	(stream gauge, monitorin	g well, aerial photos, pre	evious inspections), if a	vailable:	10.0
	NA NA		· · · · · · · · · · · · · · · · · · ·		
Remarks: ONE F	RIMARY AND	Two JECOI	VOARY HYDR	SLOUY INDIC	ATORS PRESENT
	*				7 11 12 12 12 12 12 12 12 12 12 12 12 12
				* * *	
	*				,
	5, · · · ·				
					, ,
	·				

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

Tree Stratum (Plot size: \_\_\_ 30 '/C

ULMUJ AMERICANA

CAPINUS CAROLENIANA

FRAZINUI PENSYLVANTUA

CIRTODENDRON TULIPIFERA

1. LIRIONENNEON TULLPYFERA

15'R

NIGRA

ALER RUBRUM

BETUCA

Sapling Stratum (Plot size:

3. BETUR NEGRA

Shrub Stratum (Plot size: 15'2 1. ASEMINA TRI LOBA

4. LINDRAA BENWIN

Herb Stratum (Plot size: \_\_\_ 1. LINGERA BENVEN

2. ALTINGUA TATLOBA

4. THELYPTELLS PALUSTRES

Woody Vine Stratum (Plot size: 1. CAMPITI RADILANI 2. VITIL ROTURDEFORTA

5. ARIJAEMA TREPHYLLUM

6. BOEHMERZA CTURNOTUR

2. FRATINUS PENJYLVANICA

CAROLINIANA

5'R

3. CAREA ST. (NO FRUETONU BODIES)

2. ALER RUBRUM

3. CARPILLUI

5.

11.

	:		
mes of			Sampling Point: WNUKOIT
Absolute	Dominant	Indicator	Dominance Test worksheet:
56	Species?		Number of Dominant Species That Are OBL FACW or FAC:
20	1	FAL	That Are OBL, FACW, or FAC:(A)
10	N	FAC	Total Number of Dominant
	- N	FAL	Species Across All Strata: (B)
5	. V	FACE	Percent of Dominant Species Q
10	<u> </u>	FAW	That Are OBL, FACW, or FAC:
		11100	Prevalence Index worksheet:
0 105	= Total Cov	or 53 /2.	Total % Cover of: Multiply by:
	Total Gov	6 3//21	OBL species x 1 =
30	<u> </u>	FAW	FACW species x 2 =
40	Ÿ	FAL	FAC species x 3 = 1
,0		FACW	FACU species x 4 = 1
			UPL species x 5 = 1
			Column Totals: 0 (A) 5 (B)
0/80		· ·	Prevalence Index = B/A = Hydrophytic Vegetation Indicators:
930	= Total Cov	er 48/20	1 - Rapid Test for Hydrophytic Vegetation
20	Y	FAL	2 - Dominance Test is >50%
5	N	FACIN	3 - Prevalence Index is ≤3.0 <sup>1</sup>
20	Ţ	FAC	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
20	. 7	FAC	data in Remarks or on a separate sheet)
		1.10	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
			<sup>1</sup> Indicators of hydric soil and wetland hydrology must
0.65	Total Cov	er 33/13	be present, unless disturbed or problematic.
	12		Definitions of Five Vegetation Strata:
10	1	FAC.	Tree - Woody plants, excluding woody vines,
10	<u> </u>	FAC_	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
<u> 1.0</u>	<u> </u>	NI	
10.	<u> </u>	FAW	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
2	N	FACE	than 3 in. (7.6 cm) DBH.
<u></u>		FACY	Shrub Woody plants, excluding woody vines,
			approximately 3 to 20 ft (1 to 6 m) in height.
·			Herb – All herbaceous (non-woody) plants, including
	-		herbaceous vines, regardless of size, and woody
			plants, except woody vines, less than approximately 3 ft (1 m) in height.
042	<u> </u>	7.1.	Woody vine - All woody vines, regardless of height.
<u> </u>	Total Cov	er 21/9	
5	Y	FAC	
5	Y	FAL	
			Hydrophytic
			Vegetation Present? Yes No No
010 =	Total Cov	er 5/7_	10
eet.)	•		
,			

Remarks:	(include photo	numbers he	re or on	a separate	sheet.)

VEGETATION PASSES DOMENANCE

30 L

S	

Sampling Point: WNOKUIZEW

Profile Des	cription: (Describ	e to the der	oth needed to docu	ment the i	indicator	or confirm	n the absence of indicators.)
Depth ·	Matrix			ox Feature		or commit	in the absence of indicators.)
(inches)	Color (moist)	%	Color (moist)	%	_Type <sup>1</sup>	_Loc <sup>2</sup>	Texture Remarks
0-18	2,545/1	- 90	5TR 314	10	C	PL/M	SAMPY (SLY LOAM (W/MILA)
				<del>.</del> ———			
						<del></del>	
1						<del></del>	
<del></del>							
		— .— <u> </u>	· · · · · · · · · · · · · · · · · · ·	-			
	· <del>· · · · · · · · · · · · · · · · · · </del>		<u> </u>				
	<u> </u>		-				
<sup>1</sup> Type: C=C	oncentration D=De	enletion RM:	=Reduced Matrix, MS	- ———— E=Maakad			21
Hydric Soil	Indicators:	piction, rawi-	-reduced Matrix, IVI	5-Masked	Sand Gra	ains.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Histosol	(A1)		Dark Surface	(87)			Indicators for Problematic Hydric Soils <sup>3</sup> :
Histic E	pipedon (A2)		Polyvalue Be		ce (S8) (N	LRA 147.	2 cm Muck (A10) (MLRA 147)  148) Coast Prairie Redox (A16)
	istic (A3)		Thin Dark Su	rface (S9)	(MLRA 1	47, 148)	(MLRA 147, 148)
	en Sulfide (A4) d Layers (A5)		Loamy Gleye	ed Matrix (F	=2)		Piedmont Floodplain Soils (F19)
	uck (A10) (LRR N)		Depleted Mar Redox Dark		0):		(MLRA 136, 147)
Depleted	d Below Dark Surfa	ce (A11)	Depleted Dark				Red Parent Material (TF2)
Thick Da	ark Surface (A12)		Redox Depre				Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
	Mucky Mineral (S1)	(LRR N,	Iron-Mangan	ese Masse		RR N,	outer (Explain in Remarks)
	A 147, 148)		MLRA 13	6)			
	Gleyed Matrix (S4) Redox (S5)		Umbric Surfa				<sup>3</sup> Indicators of hydrophytic vegetation and
	Matrix (S6)	. ,	Piedmont Flo	odpiain Sc	oils (F19)	(MLRA 148	,
	Layer (if observed	):	<u> </u>				unless disturbed or problematic.
Type:	NA						
Depth (inc	ches):NA			•			Hydric Soil Present? Yes No
Remarks:				3.4			Tryunc don Present? Tes No No
	· •			B	8		
4	2						
					$\rightarrow$		$\mathscr{E}$
				K /			
		5	URVEY EXTEN	-			
			1 4			)	Sold State of the
7	•		₩ 1/2			5	
				复	Ļ	D JANGE	<b>Y</b>
			. \	3	1862.F	ž / Š	Jan Karla Ka
ISOFT				$\backslash$	/ 1%	200	6
.   ''						3	3
1	<b>.</b>	<b>,</b>			W AMERIA	<b>③</b> │	390
1	1	3005			35	4\	
4		-3			₹ *	. []	
1	, ( <u>)</u>	~				<u>'</u> _\	
	31(200	ہہ				HIO)/ON	
	2	Apri				3	
170.84	P	-				3/	KY GATENT
						VE -	L'I GITTE
						11	SURVEY CAT
1						$\overline{}$	



Wetland data point wnok012f\_w facing North



Wetland data point wnok012f\_w facing South



Wetland data point wnok012f\_w soil sample

Project/Site:	SERP	City	//County:NoT	TOWAY	_ Sampling Date: 09/14/10/9
Applicant/Owner:	DOMINION			State: VA	
	J. JWEITLER	Sec	ction, Township, Ra	- 10	
	pe, terrace, etc.): NATUR A			vex, none): NONE	Slope (%): <u>0</u> -2
and the second s	or MLRA): LRZP	Lat: 37.175817V2	المار (concave, con	ng: 78.0506303	
	me: MILED ALLUVIA		Lon		
			<b>®</b>	NWI classi	
	rologic conditions on the site ty			(If no, explain in	
Are Vegetation	, Soil, or Hydrolog	gy significantly dist	turbed? Are "	"Normal Circumstances"	" present? Yes <u>(</u> No <u></u>
Are Vegetation	, Soil, or Hydrolog	y naturally proble	matic? (If ne	eeded, explain any ansv	vers in Remarks.)
SUMMARY O	F FINDINGS – Attach s	ite map showing sa	mpling point l	ocations, transect	ts, important features, etc.
- Hydrophytic Voc	getation Present? Yes	No S			
Hydric Soil Pres	· . · . · . · . · . · . · . · . · . ·	No Wo	Is the Sampled		
Wetland Hydrolo		O No O	within a Wetlar	nd? Yes	No
	INT LOCATED ON	NATURAL FLOO	DOLATH LE	LURE BETWEE	N FLOODPLATIN.
QUEATTING D	AND STREAM.				
0.00,34-2					
2130-200 ( * ( )	\0.00 - 0.00				
	0800 th 0086		· · · · · · · · · · · · · · · · · · ·		
HYDROLOGY					
	logy Indicators:				cators (minimum of two required)
	ors (minimum of one is required		- (D44)		oil Cracks (B6)
Surface Water		True Aquatic Plant Hydrogen Sulfide (			egetated Concave Surface (B8) Patterns (B10)
Saturation (	5, 45		eres on Living Root	· =	Lines (B16)
Water Marks		Presence of Reduc	7		n Water Table (C2)
	eposits (B2)	_	tion in Tilled Soils (		irrows (C8)
Drift Deposi	its (B3) 2	Thin Muck Surface	(C7)	Saturation	Visible on Aerial Imagery (C9)
Algal Mat or		Other (Explain in R	temarks)	. Stunted or	Stressed Plants (D1)
Iron Deposit					ic Position (D2)
	Visible on Aerial Imagery (B7)	•		_	quitard (D3)
Aquatic Fau	ned Leaves (B9)				raphic Relief (D4) al Test (D5)
Field Observati			<u> </u>		ai rest (D3)
Sürface Water P		Depth (inches):	NA		
Water Table Pre		Depth (inches):	NA	· .	
Saturation Prese		Depth (inches):	- 1.0	etland Hydrology Pres	ent? Yes No 🗸
(includes capillar	ry fringe)	, , , , , , , , , , , , , , , , , , , ,			
Describe Record	ded Data (stream gauge, monit	oring well, aerial photos, p	revious inspections	s), if available:	
Remarks:	NA	<u> </u>			
No.	O INDECATORS OF	F WETLAND	HYDRO LOGY	PRESENT	
,	0,	ا د داران ای س	LA LOUGE CONT	FILESENSI	
			2 2		
			.*		
		•		*	
	•				

201	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 R )	% Cover	Species?	Status	Number of Dominant Species
1. CFQ-FO AMBAR NIRAGEPLUA	<u> 15</u>	N	FAL	That Are OBL, FACW, or FAC:(A)
2. QUERLUS RUBAA	10	N	MACU	Total Number of Dominant
3. ACER RUBRUA	35	Y	FAC	Species Across All Strata: (B)
4. LIRTODENDROW STYRACTFLUA	40	7	FAW	
5. PRUNUL SEROT ENA	10	N	FAW	Percent of Dominant Species That Are OBL, FACW, or FAC:
6. CARPINY CAROLINIANA	10	N	FAC	That Are OBL, FACW, of FAC. (A/B)
7			17.50	Prevalence Index worksheet:
*	0 170 -	Total Cov	er 60/14	Total % Cover of: Multiply by:
Sapling Stratum (Plot size: 15 (7)		- Total Cov	er 69 6 9	OBL species x 1 =
1. CARPLWU CAROLINIANA	20	Y	FAL	FACW species x 2 =
	60	7	FAL	FAC species x 3 =1
3	<del></del>		<del>.</del>	FACU species $x 4 = 1$ UPL species $x 5 = 1$
4				
5.				Column Totals: 0 (A) 5 (B)
6				Prevalence Index = B/A =
7		7		Hydrophytic Vegetation Indicators:
	1080	Total Cov	er 40/16	
Shrub Stratum (Plot size: 15'2)	\$ 30		- 0 /	1 - Rapid Test for Hydrophytic Vegetation
	40330	<u> </u>	FAC	2 - Dominance Test is >50%
2. LINDERA BENZUEN 2. CALOTINU CARO UNIANA			FAC	3 - Prevalence Index is ≤3.0 <sup>1</sup>
3. CARPINUS CAROUNIANA	70	N	FAC	4 - Morphological Adaptations (Provide supporting
4.				data in Remarks or on a separate sheet)
5				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
6				
7.				Indicators of hydric soil and wetland hydrology must
	<u>670</u>	= Total Cov	er 35/14	be present, unless disturbed or problematic.
Herb Stratum (Plot size: . 512 )				Definitions of Five Vegetation Strata:
1. ALLINING TRILOPA	5	M	FAL	Tree – Woody plants, excluding woody vines,
2. CINDERA BENZOIN	5	N	FAC	approximately 20 ft (6 m) or more in height and 3 in.
3. CARPINYS CAROLINIANA	10	Ÿ	FAC	(7.6 cm) or larger in diameter at breast height (DBH).
4. CAREX ST. (NO FOUTTON BOOTE)	5	7	NT	Sapling - Woody plants, excluding woody vines,
5. POLYSTECHUM ALROSTE COMES		N	FAW	approximately 20 ft (6 m) or more in height and less
6. AMPHILARPAKA BRAUTEATA	7.	N	FAIL	than 3 in. (7.6 cm) DBH.
7. LONTIGRA SAPONTEA	7	. 11	FAC	Shrub – Woody plants, excluding woody vines,
			PAC	approximately 3 to 20 ft (1 to 6 m) in height.
8	<del></del>	-		Herb – All herbaceous (non-woody) plants, including
9				herbaceous vines, regardless of size, and woody
10	<del></del>			plants, except woody vines, less than approximately
11.			·	3 ft (1 m) in height.
12				Woody vine - All woody vines, regardless of height.
2011	031 =	Total Cov	er 16/7	
Woody Vine Stratum (Plot size: 3012)	~	17	ا برب	
1. TOXILLOENDRON RADICANS	5	<u> </u>	FAL	
2. PARTHEMICKISCI QUENQUEFOUTA.	_5	<u> </u>	FAU	
3			`	
4				Hydrophytic
5.	. 0	- 1. A.	-	Vegetation Present? Yes No
	010 =	Total Cov	er 5/4	163 <u>-3</u> 160 <u>-3</u>
Pamarke: (Include photo numbers here or an a consiste	hoot \			
Remarks: (Include photo numbers here or on a separate s	rieet.) V	ELETAT	Tow F	PASSES DOMENANCE THE
AND IT REARESENTATIVE OF			TED MOU	T Transfer and
	71111		THE PINCE	T FLOSOPLAIN VEGETATION,
	*			
	14			

$\sim$	$\sim$	

Profile Desc	cription: (Describe	to the dep	th needed to docu	ment the i	ndicator	or confirm	n the absence of indic	Sampling Point: WAVIT OT C
Depth	Matrix			x Feature		or compri	in the absence of indic	cators.)
(inches)	Color (moist)	%	Color (moist)	%	_Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-2	10 YR 3/3	100					(Il Com	
2-15	7.54R 4/6	100					SELT WAN	winted
15 -14	2.54 613	<u>70</u>	57R 416	30	<u></u>	M	SILT LOAM	
		-						April 3
-						• •		
					-			
-	. ,		<u> </u>				. 7.	
<sup>1</sup> Type: C=Co	oncentration, D=Dep	letion, RM=	Reduced Matrix, M	S=Masked	Sand Gra	ins.	<sup>2</sup> Location: PL=Pore L	ining. M=Matrix
Hydric Soil							Indicators for	Problematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface				2 cm Muc	k (A10) (MLRA 147)
Black Hi	oipedon (A2)		Polyvalue Be	low Surfac	ce (S8) (M	LRA 147,		irie Redox (A16)
_	en Sulfide (A4)		Thin Dark Su Loamy Gleye	mace (59) ed Matrix (	(MILKA 1	47, 148)		147, 148)
	d Layers (A5)		Depleted Ma					Floodplain Soils (F19) 136, 147)
	ıck (A10) (LRR N)		Redox Dark					nt Material (TF2)
	d Below Dark Surface	e (A11)	Depleted Da		, ,			low Dark Surface (TF12)
	ark Surface (A12)	DD M	Redox Depre				Other (Ex	plain in Remarks)
: MIRA	lucky Mineral (S1) (L A 147, 148)	-KK N,	Iron-Mangan MLRA 13		es (F12) (I	RR N,		
	Gleyed Matrix (S4)		Umbric Surfa		MIRA 13	6 122)	3Indicators o	f hydrophytic vegetation and
	Redox (S5)		Piedmont Flo				(8) wetland h	ydrology must be present,
	Matrix (S6)	<u> </u>						turbed or problematic.
	Layer (if observed):							
Type:	NA	•	<del></del> }					
Depth (inc	ches): <b>/\/\</b>		<del> </del>				Hydric Soil Present	t? Yes <u> </u>
Remarks:	NO INDICA	TORS	or wat	HYOR	ci s	DILI	PREJENT. D	DUE TO HICH
CHLO	MA MATRI	(T)	181		. *		7 10 0/4].	nzung.
Onteo	71,7,7,00	JC 10	18					
		*						
2.0			's :					
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151		. ·						
• ' ' '		556	SHETC19	ON	ار لدا	OKOI	Zf-w DAT	- A EXOM
* *		200	. 31001019	010	٠, ,		C , 20- 07-3,	7) Jojeni,
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	7							



Upland data point wnok012\_u facing North



Upland data point wnok012\_u facing South



Upland data point wnok012\_u soil sample

Project/Site: City/County: NOTTOWN	łÝ	mm!
Applicant/Owner: Dows Tow	Sa	mpling Date: 08/20/20
Investigator(s): 5. Swilliam Section Township Pages		Sampling Point: んんこんのに
Landform (hillslope, terrace, etc.): / Local relief (concave, convex, no	ne) NONE	
Subregion (LRR or MLRA): $\angle RRP$ Lat: 37, 1667,04987 Long: 7	ne):	Slope (%): 3 -3
Soil Man Unit Name: Chick and Add Control of the Add Control	* *	
Soil Map Unit Name: Crick co ARJE SANDY CO.AM, HILLY PHANK (Cg)	NWI classification	n:NA
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No		
	l Circumstances" prese	ent? Yes <u>@</u> No <u>O</u>
	explain any answers in	
SUMMARY OF FINDINGS - Attach site map showing sampling point location	ons, transects, im	portant features, etc.
Hydrophytic Vegetation Present? Yes   No   No		
Hydric Soil Present? Vos Na Is the Sampled Area		
Wetland Hydrology Present? Yes No No Within a Wetland?	Yes	No
Remarks: NARROW WETLAND SWALL BETWEEN DUL POND AND	= a HE A E A	Contract of the contract of th
3 CRITICIA MICT. PEMIBY	EPHEMERAL	STREAM. ALL
A CHANGE AND A CIMIDA		
21-7-0-100		
PHOTOS: 100-0103 to 0105 (SOFL, SE, NN)		
HYDROLOGY		
Wetland Hydrology Indicators:	Secondary Indicators	(minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Crac	
Surface Water (A1) True Aquatic Plants (B14)		ed Concave Surface (B8)
High Water Table (A2)  Hydrogen Sulfide Odor (C1)	Drainage Patterns	
Saturation (A3)  Oxidized Rhizospheres on Living Roots (C3)	Moss Trim Lines	
Water Marks (B1)  Presence of Reduced Iron (C4)	Dry-Season Wate	
Sediment Deposits (B2)  Recent Iron Reduction in Tilled Soils (C6)	Crayfish Burrows	
Drift Deposits (B3)  Thin Muck Surface (C7)		on Aerial Imagery (C9)
Algal Mat or Crust (B4)  Other (Explain in Remarks)	Stunted or Stress	
Iron Deposits (B5)	Geomorphic Posi	
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard	
Water-Stained Leaves (B9) Aquatic Fauna (B13)	Microtopographic	Relief (D4)
Field Observations:	FAC-Neutral Test	(D5)
Control of the Power of the Pow		
(includes capillary fringe) wetland H		Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if ava	ilable:	
NA NA		
Remarks:  SEVERAL PRIMARY AND CLID NOON THOSE ATTOM		i Nec
SEVERAL PREMARY AND SELONDANY INDEPATORS OF	UKILAND H	TOROLOUT.
	5 - <sup>65</sup>	
		,
		,
		,

Ch A	Absolute		t Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: SFLD)	% Cover	Species	? Status	Number of Dominant Species
1. NA				That Are OBL, FACW, or FAC:(A)
2			<del></del>	Total Number of Dominant
3				Species Across All Strata: (B)
4				Demont of Demoissant Consists
5				Percent of Dominant Species / 00 That Are OBL, FACW, or FAC: (A/B)
6.				111at 7110 CB2, 171cV1, 01 171c (71B)
7.				Prevalence Index worksheet:
	0 '	= Total Co	over	Total % Cover of: Multiply by:
Sapling Stratum (Plot size: 5FL D )			,	OBL species x 1 = _1
1. <u>NA</u>				FACW species x 2 = _1
2.				FAC species x 3 = 1
3.				FACU species x 4 =1
4.				UPL species x 5 = 1
5				Column Totals: 0 (A) 5 (B)
	- —	$\dashv$		(-)
6				Prevalence Index = B/A =
7	- <del>-</del>			Hydrophytic Vegetation Indicators:
Shrub Stratum (Plot size: 5 ft 0	0	= rotarCo	over	1 - Rapid Test for Hydrophytic Vegetation
1. <b>A</b> A				2 - Dominance Test is >50%
2	- —			3 - Prevalence Index is ≤3.0 <sup>1</sup>
			-	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
4				data in Remarks or on a separate sheet)
4				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5.				
6				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
7				be present, unless disturbed or problematic.
7	0	= Total Co	over	Definitions of Five Vegetation Strata:
	50	Y	OBL	T
1. PERSTIGATA HYDROPIPERSTORS 2. COMMEINA COMMUNIS	40	<del>-                                      </del>	FAL	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
	10	N	FALU	(7.6 cm) or larger in diameter at breast height (DBH).
	4.9-	10	7700	Sapling – Woody plants, excluding woody vines,
4.		_=		approximately 20 ft (6 m) or more in height and less
5. KYLLINGA GRACTILLIMA	_/0	N	FALW	than 3 in. (7.6 cm) DBH.
6				Shrub – Woody plants, excluding woody vines,
7.	<u></u>			approximately 3 to 20 ft (1 to 6 m) in height.
8.				
9				Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
10				plants, except woody vines, less than approximately
				planto, oxoopt woody vinco, lood than approximatory
11			*	3 ft (1 m) in height.
11 12			*	3 ft (1 m) in height.
12	9110	= Total Co		
12	9 (10	= Total Co	over 55/22	3 ft (1 m) in height.
	gilo	= Total Co	over 55/22	3 ft (1 m) in height.
12			over 55/22	3 ft (1 m) in height.
12			over 55/22	3 ft (1 m) in height.
12			over 55/22	3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.  Hydrophytic
12			over $\zeta s / \mathcal{U}$	3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.  Hydrophytic
12				3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.  Hydrophytic
12	0			3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.  Hydrophytic
12	0 sheet.)	= Total Co	over	3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.  Hydrophytic Vegetation Present?  Yes No
12	0 sheet.)	= Total Co	over	3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.  Hydrophytic
12	0 sheet.)	= Total Co	over	3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.  Hydrophytic Vegetation Present? Yes No
12	0 sheet.)	= Total Co	over	3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.  Hydrophytic Vegetation Present? Yes No

	10 42 4/3 HET 1 4/N	100 <b>8</b> 0	10 YR 4/6	40	<u> </u>		COPRIR			18.12.40
-20 (	JET 1 4/N	<b>6</b> 0	10 YR 4/6	40	C					10.1.
						_h_	COMORE	SANDY	Comple !	( W/g/4/R
				<del></del>	·			-		
	<del></del>			,						,
			-	<u> </u>	<del></del>		-		······································	
	* * * *			,			•			
								-		
		epletion, RI	- ∕I=Reduced Matrix, M	S=Masked	Sand Gra	ains.	<sup>2</sup> Location: P			
dric Soil In										Hydric Soils <sup>3</sup> :
Histosol (A			Dark Surface		(00) (1			2 cm Muck (A		
Black Hist	pedon (A2)		Polyvalue Be				148)	Coast Prairie MLRA 14)		16)
	Sulfide (A4)		Loamy Gleye			41, 140)		Piedmont Flo		ile (F19)
	Layers (A5)		Depleted Ma		)		· .	(MLRA 13		113 (1 10)
	k (A10) (LRR N)		Redox Dark		6)		. П	Red Parent N		-2)
	Below Dark Surfa		Depleted Da		*.			Very Shallow		
	k Surface (A12)		Redox Depre					Other (Explai		
Sandy Mu	icky Mineral (S1)	(LRR N,	Iron-Mangan	ese Masse	es (F12) (	LRR N,	_	` '		
	147, 148)		MLRA 13	6)						
	eyed Matrix (S4)		Umbric Surfa	ace (F13) (	MLRA 13	6, 122)	<sup>,3</sup> In	dicators of hy	drophytic '	vegetation and
Sandy Red			Piedmont Flo	odplain S	oils (F19)	(MLRA 14	8)	wetland hydr	ology must	be present,
Stripped M								unless distur	ed or prob	lematic.
trictive La	yer (if observed	d):				-				
Гуре:	NA								<b>(</b>	
	nes):		<del></del> :				Hydric Soi	I Present?	Yes	No <u>O</u>
narks:										
				/						,
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			Sionory			سنسن	mo13e,w	\ /		
		*	707		( in	(A) W/V				
			1	, _	7/4	W.		v /		
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				- /	•	A)		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1	
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正点		(4)								
12			7. 1			/				
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Wetland data point wnok013e\_w facing Southeast



Wetland data point wnok013e\_w facing Northwest



Wetland data point wnok013e\_w soil sample

Project/Site: SEAP	Citv/County:	NOTTOWAY	Sampling Date: 08/20/201
Flojectione:		State: VA	Sampling Point: ผมงัน 013
Applicant/Owner: DOMINION  Investigator(s): J SWUTER.	Castian Taura	ship, Range: NA	
est.gate.(e).		4000	Slope (%): 5.10
Landform (hillslope, terrace, etc.): HIUSCOPIC.	Local relief (conca	Long: 73,0411277	53 Datum: NA01983
	7. 166178584	/ · `	NA
Soil Map Unit Name: Ceal coalse fandy logs	"   "	NWI classifi	cation:
Are climatic / hydrologic conditions on the site typical for this	s time of year? Yes	NoO (If no, explain in I	
Are Vegetation, Soil, or Hydrology s	ignificantly disturbed?	Are "Normal Circumstances"	present? Yes <u> </u>
Are Vegetation, Soil, or Hydrology n	aturally problematic?	(If needed, explain any answ	ers in Remarks.)
SUMMARY OF FINDINGS – Attach site map	showing sampling	point locations, transect	s, important features, etc.
Hydric Soil Present? Yes O: No	_ (ALE) . ·	Sampled Area a Wetland? Yes	) No <u>©</u>
	LOVE, ADJAUENT	TO WARMOND AND	ONOHOOI
10504 (6) 610 610 610 610 610 610 610 610 610 610	C4 6, 100 HOUS	to polochieta ita	0,0,0,0
PHOTOS 100-0106 to 0108 (10.1)	SE, NW)	•	,
HYDROLOGY		,	
Wetland Hydrology Indicators:	,	Secondary Indic	ators (minimum of two required)
Primary Indicators (minimum of one is required; check all t	hat apply)	Surface Soi	l Cracks (B6)
Surface Water (A1)	Aquatic Plants (B14)	Sparsely Ve	egetated Concave Surface (B8)
High Water Table (A2)	rogen Sulfide Odor (C1)	Drainage Pa	atterns (B10)
	ized Rhizospheres on Livi	· · · / ==	` '
	ence of Reduced Iron (C4		Water Table (C2)
	ent Iron Reduction in Tilled Muck Surface (C7)		/isible on Aerial Imagery (C9)
	er (Explain in Remarks)		Stressed Plants (D1)
Iron Deposits (B5)	• • • • • • • • • • • • • • • • • • • •		Position (D2)
Inundation Visible on Aerial Imagery (B7)		Shallow Aq	uitard (D3)
Water-Stained Leaves (B9)			aphic Relief (D4)
Aquatic Fauna (B13)		FAC-Neutra	Il Test (D5)
Field Observations:	oth (inches): NA		
Surface Water Present? Yes No Per No No Per No Per No Per No No Per No Per No Per No No No Per No		-	
	oth (inches): VA	──	nt? Yes No i
(includes capillary fringe)			110 2
Describe Recorded Data (stream gauge, monitoring well, a	aerial photos, previous ins	pections), if available:	
NA			
Remarks: No INDSCATUAL OF WETCH	in Hyprovoling	•	
10 - MODECATOR OF WEIGHT	ווו ניינים ווויינים ניינים וויינים		
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EGETATION (1110 Guillan)	Absolute	Dominan <sup>6</sup>	t Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30'R)	% Cover	Species	? Status	Number of Dominant Species
Tree Stratum (Plot size:	15	V	FAL	That Are OBL, FACW, or FAC:(A)
1 LOUISAN TITACI	15	1	FALU	•
2. QUERCUS ALBA			- 17,500	Total Number of Dominant  Species Across All Strata:  (B)
3.			- <del></del> -	Species Across All Strata: (B)
				Dt of Deminent Species
4. <u> </u>				Percent of Dominant Species That Are OBL, FACW, or FAC:(A/B)
5				That Are OBL, FACW, OLI AC.
6				Prevalence Index worksheet:
				· · · · · · · · · · · · · · · · · · ·
7	030	- Total Co	Wer IT/L	Total % Cover of: Multiply by:
Sapling Stratum (Plot size:)	• .	- 10tai 00	over 14/	OBL species x1 =
Sapling Stratum (Plot size:)	10	4	FAW	FACW species x 2 = 1
1. JUNIPICAUS UIRLINGANA				FAC species x 3 =
2. PENO PRUNUS SILOTINA	_ 5		FALL	
3. CERUTY CANADENSIY	5	4	FAW	FACU species x 4 = _1
<del>-</del>				UPL species x 5 = 1
4		-=	·	Column Totals: 0 (A) 5 (B)
5			<del></del>	Column Totals. (A)
6.				Prevalence Index = B/A =
7				`
	n 70		over 10/4	Hydrophytic Vegetation Indicators:
Shrub Stratum (Plot size: /// // )		= rotar Co	over /9 (	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 13 /C )		Y	FACU	2 - Dominance Test is >50%
1. JUNIPERUS VIKLINIANA		<u> </u>	PACO	
2				3 - Prevalence Index is ≤3.0¹
3		П		4 - Morphological Adaptations (Provide supporting
				data in Remarks or on a separate sheet)
4				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5				
6.				
				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
7	0/0		:-/2	be present, unless disturbed or problematic.
FID	0 70	= Total Co	over 5/C	Definitions of Five Vegetation Strata:
Herb Stratum (Plot size:	: ee-	A (	5-221	
1. EUPATORIUM CAPILLE FOCIUM	<u> [§</u>	N	FALL	Tree – Woody plants, excluding woody vines,
2. MEDICALO CUPULINA	30	Y	FACU	approximately 20 ft (6 m) or more in height and 3 in.
3. TRIFOUEUM RICORNS	<u> 40</u>	7	FAW	(7.6 cm) or larger in diameter at breast height (DBH).
		W	NI	Sapling – Woody plants, excluding woody vines,
4. POA SP.				approximately 20 ft (6 m) or more in height and less
5				than 3 in. (7.6 cm) DBH.
				,
6.				Shrub - Woody plants, excluding woody vines,
7				approximately 3 to 20 ft (1 to 6 m) in height.
8			_	
9.				Herb – All herbaceous (non-woody) plants, including
				herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately
10				3 ft (1 m) in height.
11				o te (1 m) in noight.
12.				Woody vine - All woody vines, regardless of height.
	6 95	= Total Co	over 48/4	
Woody Vine Stratum (Plot size: <b>ろら<sup>1</sup>尺</b> )		. 5 (4)	-10111	
1 11				
1. <u>NA</u>				
2				
3.				
4.				Hydrophytic
				Vegetation
5			<del>-</del>	Present? Yes No
	0	= Total Co	over	
Remarks: (Include photo numbers here or on a separa	ite sheet.)			1
	•			
VELETATION FAILS DOMENANCE	TEIN			•
A PA OLUI ANG I SEEN A CONTROL OF	, ,			

Profile Des	cription: (Describe t	to the dept	h needed	to docum	nent the i	ndicator	or confirm	the absence	of indicate	ors.)	
Depth	Matrix		0-1/-		K Features		Loc²	Texture		Remarks	
(inches)	Color (moist)	100	Color (n	10151)	<u> </u>	Type <sup>1</sup>	LOC	sandy si	11 /20		
0-1	10724/1	<del></del>	ファリ	(  -	3D	D				<u> </u>	
1-20	10 YR 5-18	70	754	6/2	30			SILT 6	-0.414		
·	to						-	-		<u></u>	- :
											<u> </u>
3				-							
1.	,									-	
				0							
					•						
1Tunor C=C	Concentration, D=Dep	lotion DM=	Peduced N	Aatriv MS	S=Masked	Sand Gr	aine .	<sup>2</sup> Location: PL	=Pore Lini	ng M=Matrix	
	Indicators:	iedon, Kivi-	Reduced	viauix, ivic	-iviasked	Garia Gr	airis.			roblematic Hyd	dric Soils <sup>3</sup> :
Histoso			Dar	k Surface	(S7)			_ 2	cm Muck (	(A10) <b>(MLRA 1</b> 4	17)
) <del></del>	pipedon (A2)		7			ce (S8) (N	ILRA 147	, 148) 🔲 C		e Redox (A16)	
	listic (A3)				rface (S9)		147, 148)	, n	(MLRA 1		<b>-</b> 40)
	en Sulfide (A4)	,	7	my Gleye leted Mat	ed Matrix (	F2)		Ц Р	iedmont FI (MLRA 1:	oodplain Soils ( 36, 147)	F19)
	d Layers (A5) uck (A10) (LRR N)		, m		Surface (F	6)		ПR		Material (TF2)	
	ed Below Dark Surface	e (A11)			k Surface					w Dark Surface	(TF12)
	ark Surface (A12)	×	_		ssions (F				ther (Expla	ain in Remarks)	
_	Mucky Mineral (S1) (L	RR N,			ese Mass	es (F12) (	LRR N,				
	A 147, 148) Gleyed Matrix (S4)			MLRA 130	o) ce (F13) (	MIRA 13	6 122)	· 3Indi	icators of h	ydrophytic vege	etation and
	Redox (S5)		7				(MLRA 14			rology must be	
Strippe	d Matrix (S6)		_				•			rbed or problem	
Restrictive	Layer (if observed):									-	
Type:											<b>@</b>
	nches): <u>VA</u>							Hydric Soil	Present?	Yes <u>O</u>	No <u>©</u>
Remarks:	NO INDECATO	as o	F AY	ORIC	SOIL	DVE	ミカ	HICH C	HROMA	MATRIX	72
						, -			•		
20	ኅ,										
			*								
	SEE S	N F.T. C.14	ON	W) NO	K 012	10 W	DA	A FORM			
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Upland data point wnok013\_u facing Southeast



Upland data point wnok013\_u facing Northwest



Upland data point wnok013\_u soil sample

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

Project/Site: ACP  Applicant/Owner: Dominion  City/County: No	State: VA Sampling Point: Wnok014s-
Investigator(s): ESI- L. ROPET, 15. MUTPhrey Section, Township	Pance: NA
Landform (hillslope, terrace, etc.): depression Local relief (conca Subregion (LRR or MLRA): LRR P Lat: 37.16040	ve, convex, none): Slope (%):
Are climatic / hydrologic conditions on the site typical for this time of year? Yes!	lo (If no, explain in Remarks.)
Are Vegetation Soil or Hydrology significantly disturbed?	Are "Normal Circumstances" present? Yes No
	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling poi	
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Yes No Is the Sam within a W	
Remarks: Wetland whok 014 & whok 015 now con	1.1. a see sellend
HYDROLOGY	Secondary Indicators (minimum of two required)
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two regards)
Primary Indicators (minimum of one is required: check all that apoly)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Inundation Visible on Aerial Imagery (B7)  Water Stained Leaves (B9)  Aquatic Fauna (B13)  Adril Deposits (B15) (LRR U)  Adril Deposits (B15) (LR U)  Adril Deposits (B15) (LR U)  Adril Deposits (B15) (LR U)  Ad	Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8)
Field Observations:	* No. 104 (1) (1) (1)
Surface Water Present? Yes No Depth (inches): NA Water Table Present? Yes No Depth (inches): 12" Saturation Present? Yes No Depth (inches): 12" (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	Wetland Hydrology Present? Yes No
	The first control of the control of
Some livestock disturbance	

Tree Stratum (Plot size 3054 X 3064)   Secretary Secre
Total Number of Deminant   3   (B)
Percent of Dominant Species
Prevalence Index worksheet:   Total % Cover of Multiply by
7.
Sapillari Shrub Stratum (Plot size 30 + X 20 + X
FACW species   X2 =   FACW species   X2 =   FACW species   X3 =   FACW species   X4 =
Sapilina/Shrub Stratum (Plot size 2014 X2014   2
Sapling/Shrub Stratum (Plot size: 30 + K204)  1. ROSA multi-ficion 5 N FACU 2 FLEX CEACA 5 N FACU 3 FYEXTRUS GROSSI Minica 5 N FACU 4. ACCY (CUCYUM) 5 N FACU 5 N FACU 5 N FACU 5 N FACU 6 FACU Species x 4 = UPL species x 5 = Column Totals: (A) (B) Frevalence Index = BIA = Hydrophytic Vegetation Indicators: 1 - Fapid Test for Hydrophytic Vegetation 2 - Dominance Test is 5-50% 3 - Frevalence Index is 50 0 1 - Froblematic Hydrophytic Vegetation (Explain) 4 - Transcus effects 1 - FACU 5 N FACU 7 - Herb Stratum (Plot size: 30 FACU Stratus of total cover: 1 - 5 20% of total cover: 2 - 5 20% of total cover: 2 - 5 20% of total cover: 3 - 5 20 1 - 5 20% of total cover: 3 - 5 20 1 - 5 20% of total cover: 3 - 5 20 1 - 5 20% of total cover: 3 - 5 20 1 - 5 20% of total cover: 4 - 5 20% of total cover:
1. ROSA MALFILLA DO Y FACU 2 FICK OCACA 5 N FACU 3 FORMAL PROBUNATION S N FACU 4 ACET (AUTUMN 5 N FACU 5 N FACU 5 N FACU 4 ACET (AUTUMN 5 N FACU 5 N FACU 5 N FACU 6 Column Totals: (A) (B)  Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 1-Fapid Test for Hydrophytic Vegetation Indicators: 2 2 - Total Cover FACU 1 1- TUNCAS OFFASA S O Y FACU 1 2 - Dominance Test is >50% 1 3 - Prevalence Index is \$3.0° 1 4 - Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 2 PROVINCE SERVICE S OFFASA S O Y FACU 4
2 FIRS OPENSAL OF COLUMN Totals: (A) (B)  3 FYOXIDUS OPENSAL OF COLUMN STATES  4 ACEY (UNDRUM 55 N) FAC Prevalence Index = BIA = Hydrophytic Vegetation Indicators:  5 N FAC Prevalence Index = BIA = Hydrophytic Vegetation Indicators:  1 FRapid Test for Hydrophytic Vegetation  2 - Dominance Test is >50%  3 - Frevalence Index is \$3 0 O Prevalence
Prevalence Index = BIA = Hydrophytic Vegetation Indicators:    1 Rapid Test for Hydrophytic Vegetation Indicators:   2 Dominance Test is >50% of total cover:   7.5 20% of total cover:   7.5     1 Facility (Plot size 30 ft X20 ft)   7.5     2 Particles of Hydrophytic Vegetation (Explain)   7.5     3 Prevalence Index is 53 0'   7.5     3 Prevalence Index is 53 0'   7.5     4 Problematic Hydrophytic Vegetation (Explain)   7.5     50% of total cover:   7.5   7.5     1 Facility (Plot size 30 ft X20 ft)   7.5     2 Particles of Hydrophytic Vegetation (Explain)   7.5     1 Facility (Plot size 30 ft X20 ft)   7.5     1 Indicators of Hydrophytic Vegetation (Explain)   7.5     1 Indicators of Hydrosolid and wetland hydrology must be present, unless disturbed or problematic.   7.5     1 Indicators of Hydrosolid and wetland hydrology must be present, unless disturbed or problematic.   7.5     1 Indicators of Hydrosolid and wetland hydrology must be present, unless disturbed or problematic.   7.5     1 Indicators of Hydrophytic Vegetation (Explain)   7.5     1 Indicators of Hydrosolid and wetland hydrology must be present, unless disturbed or problematic.   7.5     1 Indicators of Hydrophytic Vegetation (Explain)   7.5     1 Indicators of Hydrophytic Vegetation (Explain)   7.5     1 Indicators of Hydrophytic Vegetation (Explain)   7.5     2
Hydrophytic Vegetation Indicators:    Hydrophytic Vegetation Indicators:   Rapid Test for Hydrophytic Vegetation   Problematic Hydrophytic Vegetation   Problem
Hydrophytic Vegetation Indicators:   Rapid Test for Hydrophytic Vegetation   Rapid Test is >50%   Rapid Test for Hydrophytic Vegetation   Rapid Test is >50%   Rapid Test for Hydrophytic Vegetation   Rapid Test is >50%   Rapid Test for Hydrophytic Vegetation   Rapid Test is >50%   Rapid Test is >50%   Rapid Test for Hydrophytic Vegetation   Rapid Test is >50%   Rapid Test for Hydrophytic Vegetation   Rapid Test is >50%   Rapid Test for Hydrophytic Vegetation   Rapid Test is >50%   Rapid Test for Hydrophytic Vegetation   Rapid Test is >50%   Rapid Test for Hydrophytic Vegetation   Rapid Test is >50%   Rapid Test for Hydrophytic Vegetation   Rapid Test is >50%   Rapid Test for Hydrophytic Vegetation   Rapid Test is >50%   Rapid Test for Hydrophytic Vegetation   Rapid Test is >50%   Rapid Test for Hydrophytic Vegetation   Rapid Test is >50%   Rapid Test for Hydrophytic Vegetation   Rapid Test is >50%   Rapid Test is >5
Rapid Test for Hydrophytic Vegetation   2 - Dominance Test is >50%   3 - Prevalence Index is \$3.0'   3 - Prevalence Index is \$3.0'   1 - Problematic Hydrophytic Vegetation (Explain)   1 - TUNICUS SEFUSUS   20
7. 8. 35 = Total Cover 50% of total cover: 7. 5 20% of total cover: 9.
### Stratum (Plot size: 30 ft X20 ft)  1. TUNCUS CEFUSUS  2. CUMUS ANDULUS  3.
Herb Stratum (Plot size: 32 F X32 F)   Superation   Present   Plantage   Pl
Solve of total cover: 17.5   20% of total cover: 17.5   1   1   1   1   1   1   1   1   1
1. Transas effasas 20 y FACW be present, unless disturbed or problematic. 2. Ruraus arout u.S. 10 y FAC Definitions of Four Vegetation Strata: 3.
1. Transas effasas 20 y FACW be present, unless disturbed or problematic. 2. Ruraus arout u.S. 10 y FAC Definitions of Four Vegetation Strata: 3.
Definitions of Four Vegetation Strata:  Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3 28 ft (1 m) tall.  Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vine - All woody vines greater than 3.28 ft in height.  Solved total cover: 15 20% of total cover: 6  Woody Vine Stratum (Plot size: 20
Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in height.  Woody Vine Stratum (Plot size: 364 k364)  Solvent and woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation  Yes No
## Solution of total cover:
height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft in height.  Woody vine – All woody vines greater than 3.28 ft in height.  Solvent and cover:
Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vine - All woody vines greater than 3.28 ft in height.  Sow of total cover:
than 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in height.  Solvent Stratum (Plot size: 30 ft x 30 ft)  November 1
8
9
Woody Vine - All woody vines greater than 3.28 ft in height.    Solve of total cover:   Solve of total
11
12
30 = Total Cover   50% of total cover:   15   20% of total cover:   6
50% of total cover: 6  Woody Vine Stratum (Plot size: 30 + X 30 + 1)  1. Smilax rotandifolio 2 N FAC  2.
Woody Vine Stratum (Plot size: 20 FLX 20 FT)  1. Smilax rotandisolia 2 N FAC  2.
1. Smilax rotandisolia 2 N FAC 2. 3. 4. 5. 2 = Total Cover Vegetation Present? Yes No
2. 3. 4. 5.  2 = Total Cover 20% of total cover: 0. Hydrophytic Vegetation Present? Yes No
4
4
5
50% of total cover: 20% of total cover: O.H Vegetation Present? Yes No
50% of total cover: 20% of total cover: O.H Present? Yes No
SECURITY OF THE PROPERTY OF TH
Remarks: (If observed, list morphological adaptations below).
*

Type: C=Concentration_D=Depletion_RM=Reduced_Matrix_MS=Masked_Sand_Grains	Depth	ription: (Describe t Matrix		Redox	Features				Remarks
ype: C=Concentration. D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  **Location: PL=Pore Lining, M=Matrix.** Indicators for Problematic Hydric Soils*: Indicators for Problematic Hydric Soils*: Indicators for Hydric Soils*: Indicato	nches)		all the same of th	The same of the sa	%				Remarks
dric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)	-12	109R 4/1	90 10	)4K5/4	<u>10</u>			<u>SCL</u>	
Dark Surface (S7) (LRR P, S, T, U) strictive Layer (if observed):  Type: Depth (inches): Hydric Soil Present? Yes No	dric Soil I Histosol Histic Ep Black His Hydroge Stratified Organic 5 cm Mu Muck Pre 1 cm Mu Depleted Thick Da Coast Pre Sandy M Sandy G Sandy R	ndicators: (Applications) (A1) ipedon (A2) stic (A3) in Sulfide (A4) Layers (A5) Bodies (A6) (LRR P. icky Mineral (A7) (LF esence (A8) (LRR U ick (A9) (LRR P., T) Below Dark Surface irk Surface (A12) alrie Redox (A16) (N iucky Mineral (S1) (Leleyed Matrix (S4) edox (S5)	able to all LRi , T, U) , RR P, T, U) ) e (A11)	Rs, unless other Polyvalue Be Thin Dark Su Loamy Mucky Loamy Gleye Depleted Mal Redox Dark S Depleted Dar Redox Depre Marl (F10) (L Depleted Och Iron-Mangane Umbric Surfa Delta Ochric Reduced Ver Piedmont Flo	wise note low Surface (S9) Mineral ( d Matrix (F3) Surface (F4) k Surface ssions (F6 RR U) nric (F11) ese Masse ce (F13) ( (F17) (ML tic (F18) ( odplain S	ed.) te (S8) (L (LRR S, F1) (LRR 6) (F7) (MLRA 1: SS (F12) ( LRR P, T RA 151) MLRA 15 oils (F19)	RR S, T, U T, U) O) 51) LRR O, P, , U) 0A, 150B) (MLRA 14	Indicators for the product of the pr	or Problematic Hydric Soils <sup>3</sup> :  uck (A9) (LRR O)  uck (A10) (LRR S)  d Vertic (F18) (outside MLRA 150A,E  nt Floodplain Soils (F19) (LRR P, S, T  ous Bright Loamy Soils (F20)  A 153B)  rent Material (TF2)  nallow Dark Surface (TF12)  Explain in Remarks)  ators of hydrophytic vegetation and and hydrology must be present, ss disturbed or problematic.
marks:	Dark Sur strictive I Type:	face (S7) (LRR P, S -ayer (if observed):							No.
NA Past 1d	emarks:	Property and American Commission Commission Commission	State and representative of the control		Literatura de la composición del composición de la composición de	- 0	Alexander de l'Alexander de l'Alexan	nyuric soil	11636111 163
	NH	(au)							



Wetland data point wnok014s\_w facing southwest.



Wetland data point wnok014s\_w facing southeast.

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region \_\_ Sampling Date: 7/6/16 Project/Site: ACP City/County: NO++OWay State: VA Sampling Point: Whok DI4-U Applicant/Owner: DOMINION Investigator(s): EST-L, ROPEY, K, MURPHREY Section, Township, Range: NA Local relief (concave, convex, none): 100 VEX Slope (%): 2-Landform (hillslope, terrace, etc.): Viil S (0 Pc Subregion (LRR or MLRA): LRR P Lat: 37.16044 Long: -78.634 8 Soil Map Unit Name: Welvodicee Sit Loom NWI classification: No \_\_\_\_\_\_ (If no, explain in Remarks.) Are climatic / hydrologic conditions on the site typical for this time of year? Yes Are "Normal Circumstances" present? Yes\_ Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? (If needed, explain any answers in Remarks.) Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area Wetland Hydrology Present? Yes No No Remarks: within a Wetland? Whole 014 & whole 015 now connected as some wetland HYDROLOGY Secondary Indicators (minimum of two required) Wetland Hydrology Indicators: Surface Soil Cracks (B6) Primary Indicators (minimum of one is required; check all that apply) Sparsely Vegetated Concave Surface (B8) Aquatic Fauna (B13) Surface Water (A1) Drainage Patterns (B10) Marl Deposits (B15) (LRR U) High Water Table (A2) Moss Trim Lines (B16) Hydrogen Sulfide Odor (C1) Saturation (A3) Dry-Season Water Table (C2) Oxidized Rhizospheres along Living Roots (C3) Water Marks (B1) Crayfish Burrows (C8) Presence of Reduced Iron (C4) Sediment Deposits (B2) Saturation Visible on Aerial Imagery (C9) Recent Iron Reduction in Tilled Soils (C6) Drift Deposits (B3) Geomorphic Position (D2) Thin Muck Surface (C7) Algal Mat or Crust (B4) Shallow Aguitard (D3) Other (Explain in Remarks) Iron Deposits (B5) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Sphagnum moss (D8) (LRR T, U) Water-Stained Leaves (B9) Field Observations: Yes \_\_\_ No \_\_ Depth (inches): NA
Yes \_\_\_ No \_\_ Depth (inches): >2 Surface Water Present? Depth (inches): >2015 Water Table Present? Yes No Depth (inches): 72011 Wetland Hydrology Present? Yes \_\_\_\_\_ No\_ Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: some livestock disturbance

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

to the transition of the state	Absolute	Dominan	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 3064 × 3064)  1. (VORE PRESENT			Status	Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
2				Total Number of Dominant Species Across All Strata: (B)
4				Percent of Dominant Species That Are OBL, FACW, or FAC: 60% (A/B)
6				5 I I I I I I I I I I I I I I I I I I I
7				Prevalence Index worksheet: Total % Cover of: Multiply by:
В.				1010179 3010
-	0	= Total Co	ver	OBL species x 1 =
50% of total cover:	20% of	total cove	r:	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 305+X 305+)				FAC species x 3 =
1. Pinus taeca	5	1	FAC	FACU species x 4 =
2 Platanus occidentalis	10	Y	FACW	UPL species x 5 =
3. Liquidambar Styraciflug	5	Y	FAC	Column Totals: (A) (B)
4.	10. 10 mm	124 122		Prevalence Index = B/A =
5.				Hydrophytic Vegetation Indicators:
6. The first reach state where the same and				Rapid Test for Hydrophytic Vegetation
7.				2 - Dominance Test is >50%
8.	4			3 - Prevalence Index is ≤3.0
	20	= Total Co	ver	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: (()	20% of	total cover	. 4	
Herb Stratum (Plot size: 3084 x 3064)		And the control of		<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1. Eupotorium capillifolium	30	Y	FACA	be present, unless disturbed or problematic.
2. Juneus effusus	5	N1	FACW	Definitions of Four Vegetation Strata:
3. Rubus argutus	10	7	FACU	
180/1 - Principal Control (180/1906) - 180/190/190/190/190/190/190/190/190/190/19	10		FILES	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4 . Care Divide an accordance of the address of the control of the		Commence Services		more in diameter at breast height (DBH), regardless of height.
5.				
6. Control of the con			1.6.2 of 2.5.2.4.	Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7.				
B				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	1 17 194 17 1		A SHARE A CANADA	neight.
12.	116	2.2.10 to 10.00 E		
22	-	= Total Co	( )	
50% of total cover:	20% of	total cove	-	
Woody Vine Stratum (Plot size: 30 F+ X 30 F-)	0	1.1	501	
1. SMITOX Retunditolia		N	FITC	
2. The state of th		1	A_1/2 (A) A 44	
3. Parameter and the same and t	4			
4		- American		
5				Hydrophytic
The second of th	2	= Total Co	ver	Vegetation
50% of total cover:			0.4	Present? Yes No No
		in holffalmaklift.	100 M = 10 M = -0	A PARTINE CONTROL OF THE CONTROL OF
Remarks: (If observed, list morphological adaptations belo	ivv).			
		,		
				or provide an analysis of a second

Pepth Matrix Inches) Color (moist) %	Color (moist)	x Features  % Type' Lo	oc² Texture	Remarks
nches) Color (moist) % 1- (0 (04R 4/1 (00	Color (Holst)	70 1105	SL	
			<1	
0-20 loge 3/3 100				
1				
120-140-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-				
				ELECTRIC WAS A
ype: C=Concentration, D=Depletion, RM=	Reduced Matrix, MS	S=Masked Sand Grains.	. 'Location:	PL=Pore Lining, M=Matrix.  for Problematic Hydric Soils <sup>3</sup> :
dric Soil Indicators: (Applicable to all				
Histosol (A1)		low Surface (S8) (LRR		Muck (A9) (LRR O) Muck (A10) (LRR S)
Histic Epipedon (A2)		rface (S9) (LRR S, T, U	- 40 x 16 30/32	ed Vertic (F18) (outside MLRA 150A,B
Black Histic (A3)	THE R. P. LEWIS CO., LANSING,	y Mineral (F1) (LRR O)	Piedr	ont Floodplain Soils (F19) (LRR P, S, T)
Hydrogen Sulfide (A4)	Depleted Ma	ed Matrix (F2)		alous Bright Loamy Soils (F20)
Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U)	Redox Dark			RA 153B)
5 cm Mucky Mineral (A7) (LRR P, T, U)		rk Surface (F7)		arent Material (TF2)
Muck Presence (A8) (LRR U)	Redox Depre			Shallow Dark Surface (TF12)
1 cm Muck (A9) (LRR P, T)	Marl (F10) (1		Other	(Explain in Remarks)
Depleted Below Dark Surface (A11)		hric (F11) (MLRA 151)		
Thick Dark Surface (A12)		ese Masses (F12) (LRF		cators of hydrophytic vegetation and
Coast Prairie Redox (A16) (MLRA 150		ice (F13) (LRR P, T, U)	we	tland hydrology must be present, less disturbed or problematic.
Sandy Mucky Mineral (S1) (LRR O, S)		(F17) (MLRA 151)		less disturbed of problematic.
Sandy Gleyed Matrix (S4)		rtic (F18) (MLRA 150A,		
Sandy Redox (S5)	Anomalous I	oodplain Soils (F19) (ML Bright Loamy Soils (F20)	(MI RA 149A, 1530	C. 153D)
Stripped Matrix (S6)  Dark Surface (S7) (LRR P, S, T, U)	Alonalous	Stigrit Coatrly Solls (1 25)	, (inizitar i jozia i jozia	11144
estrictive Layer (if observed):				
#####################################				
Type:			Hydric So	I Present? Yes No
Type:			Hydric So	Il Present? Yes No
Type: Depth (inches):			Hydric So	Il Present? Yes No
Type:			Hydric So	Il Present? Yes No
Type:			Hydric So	Present? Yes No
Type:			Hydric So	Present? Yes No
Type:			Hydric So	Present? Yes No
Type:			Hydric So	Il Present? Yes No
Type:			Hydric So	Il Present? Yes No
Type: Depth (inches):			Hydric So	Il Present? Yes No
Type:			Hydric So	Il Present? Yes No
Type:			Hydric So	Il Present? Yes No
Type:			Hydric So	I Present? Yes No
Type:			Hydric So	I Present? Yes No
Type:			Hydric So	I Present? Yes No
Type:			Hydric So	I Present? Yes No
Type:			Hydric So	Il Present? Yes No
Type:			Hydric So	Il Present? Yes No
Type:			Hydric So	Il Present? Yes No
Type:			Hydric So	Il Present? Yes No
Type:			Hydric So	Il Present? Yes No
Type:			Hydric So	Il Present? Yes No
Type:			Hydric So	Il Present? Yes No
Type:			Hydric So	I Present? Yes No
Type:			Hydric So	I Present? Yes No



Upland data point wnok014\_u facing northwest.



Upland data point wnok014\_u facing northeast.

#### WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Dominion Southeast Reliability Project	City/Co	unty: Nottoway		Sampling Date: 08/21/2014
Applicant/Owner: Dominion Transmission		,		Sampling Point: wnok016f_w
	Section	n. Township, Range: NA		<u> </u>
	L ocal relie	f (concave convex no	ne). none	Slope (%): 0-1
Subregion (LRR or MLRA): LRR P Lat	. 37.159302194	Long: 78.0	32510040	0.0pc (70)
Soil Map Unit Name: Wahadkee Silt Loam (Wa)		Long	NNA/I alaasifia	Datum: NAD 1983
		/		
Are climatic / hydrologic conditions on the site typical for	-			
Are Vegetation, Soil, or Hydrology				oresent? Yes No
Are Vegetation, Soil, or Hydrology	naturally problemate	ic? (If needed, e	explain any answe	ers in Remarks.)
SUMMARY OF FINDINGS – Attach site m	າap showing samr	oling point location	ons, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes   ✓	No			
Hydric Soil Present?	No.	Is the Sampled Area	, , ,/	
Wetland Hydrology Present? Yes   ✓	No	within a Wetland?	Yes	No
Remarks:				
Wetland located at in floodplain of woody creek. Wetla	and mapped by NWI as	PFO1A. All 3 criteria a	re met. Upland po	oint shared with wnok014_u.
DI				
Photos 106-4977 to 4981 (Soil, N, S, E, W)				
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum of one is required; chec	k all that apply)		Surface Soil	Cracks (B6)
	True Aquatic Plants (B	•		getated Concave Surface (B8)
1 <del></del> -	Hydrogen Sulfide Odor		✓ Drainage Pa	tterns (B10)
	Oxidized Rhizospheres		Moss Trim L	
✓ Water Marks (B1)	Presence of Reduced I	Iron (C4)	Dry-Season	Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reduction	in Tilled Soils (C6)	Crayfish Bur	rows (C8)
1 — · · · / —	Thin Muck Surface (C7	•		isible on Aerial Imagery (C9)
<u> </u>	Other (Explain in Rema	arks)	<del></del>	tressed Plants (D1)
Iron Deposits (B5)			✓ Geomorphic	` '
Inundation Visible on Aerial Imagery (B7)			Shallow Aqu	
✓ Water-Stained Leaves (B9)			<u> </u>	aphic Relief (D4)
Aquatic Fauna (B13)			FAC-Neutral	Test (D5)
Field Observations:	Donth (inches): NA	<u> </u>		
Surface Water Present? Yes No	_ Deptil (iliches)			
Water Table Present? Yes No✓		<del></del>		
Saturation Present? Yes No (includes capillary fringe)	Depth (inches):	Wetland F	Hydrology Preser	nt? Yes _ V No
Describe Recorded Data (stream gauge, monitoring v	well, aerial photos, previ	ious inspections), if ava	ilable:	
NA				
Remarks:				
Several primary and secondary hydrology indicators of	bserved. Hydrology crit	eria met.		

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

Sampling Poin wnok016f\_w

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft R )			Status	Number of Dominant Species
1 Liquidambar styraciflua	60	Υ	FAC	That Are OBL, FACW, or FAC:(A)
2 Fraxinus pennsylvanica	40		FACW	(*,)
3. Acer rubrum	20	N	FAC	Total Number of Dominant
				Species Across All Strata: (B)
4. Ulmus americana	20	N	FACW	Develop of Deminent Charles
5				Percent of Dominant Species That Are OBL, FACW, or FAC:  (A/B)
6				That Ale OBE, I AOW, OF I AO.
7				Prevalence Index worksheet:
1				Total % Cover of: Multiply by:
		= Total Cove		OBL species x1 =
50% of total cover: 70	20% of	total cover:	28	
Sapling/Shrub Stratum (Plot size: 15 ft R )				FACW species x 2 =
1. Lindera benzoin	50	Υ	FAC	FAC species x 3 =
2. Liquidambar styraciflua	35	Y	FAC	FACU species x 4 =
3. Fraxinus pennsylvanica	15		FACW	UPL species x 5 =
	10	N		
4. Ulmus americana			FACW	Column Totals: (A) (B)
5. Acer rubrum	5	N	FAC	D. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
6				Prevalence Index = B/A =
				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>
	115	= Total Cove	er	
50% of total cover:58		total cover:		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
Herb Stratum (Plot size:5 ft R)	/			data in Remarks or on a separate sheet)
Carex debilis   Carex debili	50	Υ	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
· · · · · · · · · · · · · · · · · · ·				
2. Lysimachia nummularia	20	Y	FACW	The disease of burdens will and constant burdens are second
3. Agrimonia parviflora	10	N	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4				<u>'</u>
4				Definitions of Four Vegetation Strata:
5				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6				more in diameter at breast height (DBH), regardless of
7				height.
8				
9				Sapling/Shrub – Woody plants, excluding vines, less
				than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
10				ini) taii.
11				<b>Herb</b> – All herbaceous (non-woody) plants, regardless
	80	= Total Cove	er	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 40		total cover:		
Woody Vine Stratum (Plot size: 30 Ft R )		_		<b>Woody vine</b> – All woody vines greater than 3.28 ft in
Vitis rotundifolia	5	Υ	FAC	height.
2 Smilax rotundifolia		Y	FAC	
<u></u>				
3. Campsis radicans	5	Y	FAC	
4 Toxicodendron radicans	5	Υ	FAC	
5.				Hydrophytic
J	20			Vegetation   Present? Yes No
40	$\overline{}$	= Total Cove	er 4	riesent: resNo
50% of total cover:10	20% of	total cover:	4	
Remarks: (Include photo numbers here or on a separate s	heet.)			
Vegetation passes dominance test. Typical piedmont floodp	olain vegeta	tion.		
3				

Sampling Point: wnok016f\_w

Profile Description: (Describe to the	depth needed to docur	nent the indicator	or confirm	the absence of in	dicators.)
Depth Matrix		x Features			
(inches) Color (moist) %	Color (moist)	<u>%</u> Type <sup>1</sup>	<u>Loc<sup>2</sup></u>	<u>Texture</u>	Remarks
0 - 20 10YR 4/1 95	7.5YR 4/4	5 C	PL	Silt Loam	
	<u> </u>				
	_				
1					
<sup>1</sup> Type: C=Concentration, D=Depletion,	RM=Reduced Matrix, MS	S=Masked Sand G	rains.		re Lining, M=Matrix.
Hydric Soil Indicators:					for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Dark Surface				Лuck (А10) <b>(MLRA 147)</b>
Histic Epipedon (A2)		low Surface (S8) (I			Prairie Redox (A16)
Black Histic (A3)		rface (S9) (MLRA	147, 148)	•	RA 147, 148)
Hydrogen Sulfide (A4)		ed Matrix (F2)		Piedm	ont Floodplain Soils (F19)
Stratified Layers (A5)	✓ Depleted Ma	trix (F3)			RA 136, 147)
2 cm Muck (A10) (LRR N)	Redox Dark	Surface (F6)		Very S	Shallow Dark Surface (TF12)
Depleted Below Dark Surface (A11	Depleted Dar	k Surface (F7)		Other	(Explain in Remarks)
Thick Dark Surface (A12)	Redox Depre	ssions (F8)			
Sandy Mucky Mineral (S1) (LRR N,	Iron-Mangan	ese Masses (F12)	(LRR N,		
MLRA 147, 148)	MLRA 13	6)			
Sandy Gleyed Matrix (S4)		ce (F13) (MLRA 1	36, 122)	<sup>3</sup> Indicato	rs of hydrophytic vegetation and
Sandy Redox (S5)		odplain Soils (F19			hydrology must be present,
Stripped Matrix (S6)		Material (F21) <b>(MLF</b>			disturbed or problematic.
Restrictive Layer (if observed):		. , ,		<u>,                                      </u>	·
Type: NA					
Depth (inches): NA				Hydric Soil Pres	sent? Yes ✓ No
				nyuric Soil Pres	sent? res No
Remarks:					
One indicator of hydric soils met: Deplete	ed Matrix (F3).				



Wetland data point wnok016f\_w facing North



Wetland data point wnok016f\_w facing South



Wetland data point wnok016f\_w soil sample

Upland data point shared with wnok014\_u

# wnok014\_u also serves as the upland point for wnok016f\_w

# WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont

Project/Site: SERP	City/County: NOTTOL	JAY	Sampling Date: 08/20/20/
Applicant/Owner: DOMINION	, , , , , , , , , , , , , , , , , , , ,		Sampling Point: WN0401
Investigator(s): 5. SWETTER	Section, Township, Range	- 1 /	
Landform (hillslone terrace etc.): TIELRACE	cal relief (concave, convey	A /24.	Slope (%): 6 - 2
Subregion (LRR or MLRA): LRRP Lat: 37-1599	36327 Long:	78.03287797	Z Datum: NA01983
Soil Map Unit Name: Wehadkee Silt Learn [Wa]		NWI classificat	
Are climatic / hydrologic conditions on the site typical for this time of ye	ar? Yes <b>®</b> No C	(If no, explain in Rer	
Are Vegetation, Soil, or Hydrology significantly			esent? Yes  No O
Are Vegetation, Soil, or Hydrology naturally pr		ed, explain any answers	
SUMMARY OF FINDINGS – Attach site map showing			
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Yes No No Wetland Hydrology Present?  Yes No No Wetland Hydrology Present?	Is the Sampled Ar within a Wetland?		. No <u>(3)</u>
Remarks: POINT EITAGLEITED ON NATURAL L	EVEE BETWEEN	WODY CAKE	AND THE
12000 PLAZN WETCHO WNUNDIY - MAPPE			DETERMENED
TO GE AN JEVAND.			
PHOTOS - 100 -0116 to 0120		F.	, , , , , , , , , , , , , , , , , , , ,
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicato	rs (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		Surface Soil Ci	
Surface Water (A1) True Aquatic F	lants (B14)		tated Concave Surface (B8)
High Water Table (A2) Hydrogen Sulf	de Odor (C1)	Drainage Patte	erns (B10)
Saturation (A3) Oxidized Rhizo	spheres on Living Roots (0	C3) Moss Trim Line	es (B16)
	educed Iron (C4)	-	ater Table (C2)
	duction in Tilled Soils (C6)		_ ` ′
Drift Deposits (B3)  Algal Mat or Crust (B4)  Thin Muck Sur Other (Explain	` '		ble on Aerial Imagery (C9)
Algal Mat or Crust (B4) Uother (Explain Iron Deposits (B5)	in Remarks)	Geomorphic Po	essed Plants (D1)
Inundation Visible on Aerial Imagery (B7)		Shallow Aquita	
Water-Stained Leaves (B9)		Microtopograpi	
Aquatic Fauna (B13)		FAC-Neutral T	. , ,
Field Observations:	414		
Surface Water Present? Yes No Depth (inches			2 4
Water Table Present? Yes No Depth (inches			
Saturation Present? Yes No Depth (inches (includes capillary fringe)	: _/\sum_ Wetla	nd Hydrology Present?	Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial phot	os, previous inspections), if	f available:	
NA			,
Remarks:			
NO INDICATOR) OF WETLAND A	YDA olb 64		
		· ·	
	*		
•		de .	, ,
			*

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?		_
1. ALEA A-BRITA	30	$\nabla$	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2. LIQUID AMBAR STYRACIFILAR	<del>- 20</del>	4	FAC	mat Ale OBL, FACVY, of FAC.
			140	Total Number of Dominant
3		·		Species Across All Strata: (B)
4				
5.				Percent of Dominant Species
				That Are OBL, FACW, or FAC: (A/B)
6.				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
Sapling Stratum (Plot size:/ \$\int \lambda l \text{\$\gamma} \rangle R)	8 CO	= Total Cov	er 25/10	
Sapling Stratum (Plot size:)		TITAL ST		OBL species x 1 =
1. ASENINA TRELOGA	_ 10_	<u> </u>	FAL	FACW species x 2 = _1
2				FAC species x 3 = _1
3.				FACU species x 4 = _1
				UPL species x 5 =
4			' <u></u>	The state of the s
5				Column Totals: 0 (A) 5 (B)
6.				Providence by DO
7.				Prevalence Index = B/A =
ين ا	0 10	= Total Cov	er 2/1	Hydrophytic Vegetation Indicators:
Shrub Stratum (Plot size: 15/2)		i otal COV	S. 3(C	J - Rapid Test for Hydrophytic Vegetation
1. ALIMENA TRILOPA	40	Y	FAC	2 - Dominance Test is >50%
2. LINDELA BENTEN		7	PAC	3 - Prevalence Index is ≤3.0 <sup>1</sup>
	- 50	-		
3. <u>ELAEAGNUS</u> UAMBELIATA		N	NL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
4. RUBUS ARLUTUS	10	_ N	FAL	<del> </del>
5				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
6.				9
	<del></del>	<del></del>		<sup>1</sup> Indicators of hydric soil and wetland hydrology must
7				be present unless distributed as prehistration
				are processing assistance of processing and
56	9 110	= Total Cov	/er 51/12	Definitions of Five Vegetation Strata:
Herb Stratum (Plot size: 5 /R )		= Total Cov		Definitions of Five Vegetation Strata:
Herb Stratum (Plot size: 5 /R )  1. EUPATOLIUM CAPILLERULUM	70	<u> </u>	FACU	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 R  1. EUPATOREUN CAPILIEFOULUM  2. DICKANTIKELUM CLANDESTENUM		<u> 7</u> <u> </u>		Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
2. DICKANTIKLIZUM CLANDESTINUM	- <del>10</del>	<u> </u>	FACU	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines,
2. DICKANTIKUIUM, CLANDESTENUM 3. SETARIA PUMILA	20 20 20	7 7 7	FAC	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
2. DICKANTINGUEUR, CLANDESTENUM 3. SETARIA PUMILA 4.	20 20 20	7 7 7	FAC	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
2. DICKANTIKUIUM, CLANDESTENUM 3. SETARIA PUMILA	20 20 20	7 7 7	FAC	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines,
2. DICKANTINGUEUR, CLANDESTENUM 3. SETARIA PUMILA 4.	20 20 20	7 7 7	FAC	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
2. DICKANTIKUKUN CLANDESTENUM 3. SETARIA PUMILA 4.	20 20 20	7 7 7	FAC	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines,
1. EURATUREUM CAPILLEROCIOM  2. DICKANTIKURUM, CLANDESTENUM  3. SETARIA PUMILA  4.  5.  6.  7.	20 20	7 7 7	FAC	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
1. EURATUREUM CAPILLEROCUM  2. DICKANTIKURUM, CLANDESTENUM  3. SETARIA PUMILA  4.  5.  6.  7.  8.	20 20	7	FAC	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines,
1. EUPATUREUM CAPITULIUM 2. DICKANTIKULUM, CLANDESTENUM 3. SETARIA PUMILA 4. 5. 6. 7. 8.	20 20	7	FAC	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
1. EURATUREUM CAPILLEROCUM  2. DICKANTIKURUM, CLANDESTENUM  3. SETARIA PUMILA  4.  5.  6.  7.  8.	20 20	7	FAC	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately
1. EUPATUREUM CAPITULIUM 2. DICKANTIKULUM, CLANDESTENUM 3. SETARIA PUMILA 4. 5. 6. 7. 8.	20 20	7	FAC	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
1. EUPATUREUM CAPITULIUM 2. DICKANTIKURUM, CLANDESTENUM 3. SETARIA PUMILA 4. 5. 6. 7. 8. 9.	20 20	7	FACU FAC FAC	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
1. EUPATUREUM CAPITULIUM 2. DICKANTIKULUM, CLANDESTENUM 3. SETARIA PUMILA 4. 5. 6. 7. 8. 9. 10. 11.	20 20	7	FACU FAC FAC	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately
1. EUPATURIUM CAPILLEROCIUM 2. DICKANTIKURUM, CLANDESTENUM 3. SETARIA PUMILA 4. 5. 6. 7. 8. 9. 10. 11.	20 20 20	Y Y Y = Total Cov	FACU FAC FACU FACU FACU FACU FACU FACU F	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
1. EUPHTURIUM CAPILLEROCIOM  2. DICKANTIKURUM, CLANDESTENUM  3. SETARIA PUMILA  4.  5.  6.  7.  8.  9.  10.  11.  12.  Woody Vine Stratum (Plot size: 30 K)	20 20	7	FACU FAC FACU FACU FACU FACU FACU FACU F	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
1. EUPHTURIUM CAPILLEROLOM 2. DICKANTIKULUM, CLANDESTENUM 3. SETARIA PUMILA 4	20 20 20 40	Y Y Y = Total Cov	FACU FAC FAC	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
1. EUPHTURIUM CAPILLERGEUM 2. DICKANTIKURUM, CLANDESTENUM 3. SETARIA PUMILA 4. 5. 6. 7. 8. 9. 10. 11. 12.	20 20 20 40	Y Y Y = Total Cov	FACU FAC FACU FACU FACU FACU FACU FACU F	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
1. EURATURIUM CAPILLEROLUM 2. DICKANTIKULUM, CLANDESTENUM 3. SETARIA PUMILA 4. 5. 6. 7. 8. 9. 10. 11. 12. Woody Vine Stratum (Plot size: 30 K) 1. CONDURA JANNUA 2. 3.	20 20 20 40	Y Y Y = Total Cov	FACU FAC FACU FACU FACU FACU FACU FACU F	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.
1. EUPHTURIUM CAPILLERGEUM 2. DICKANTIKURUM, CLANDESTENUM 3. SETARIA PUMILA 4. 5. 6. 7. 8. 9. 10. 11. 12.	20 20 20 40	Y Y Y = Total Cov	FACU FAC FACU FACU FACU FACU FACU FACU F	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.
1. EURATURIUM CAPILLEROLUM 2. DICKANTIKULUM, CLANDESTENUM 3. SETARIA PUMILA 4. 5. 6. 7. 8. 9. 10. 11. 12. Woody Vine Stratum (Plot size: 30 K) 1. CONDURA JANNUA 2. 3.	20 20 20 40	Y Y Y = Total Cov	FACU FAC FACU FACU FACU FACU FACU FACU F	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.
1. EUPHTURIUM CAPILLEROLOM 2. DICKANTIKURUM, CLANDESTENUM 3. SETARIA PUMILA 4	20 20 20 40	TYYY Y TOTAL COV	FALU FAL FAL FAL	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.  Hydrophytic Vegetation
1. EUPHTURIUM CAPILLERGEUM 2. DICKANTIKURUM, CLANDESTENUM 3. SETARIA PUMPLA 4. 5. 6. 7. 8. 9. 10. 11. 12. Woody Vine Stratum (Plot size: 30 K) 1. CONFURRA JANNER 2. 3. 4. 5.	20 20 20 40	Y Y Y = Total Cov	FALU FAL FAL FAL	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.
1. EDATIVELON CAPILLEDON  2. DICKANTIVELON CLANDESTENOM  3. SETARIA PUNTLA  4	20 20 20 40 40	TYYY Y TOTAL COV	FALU FAL FAL FAL	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.
1. EDATIVELON CAPILLEDON  2. DICKANTIVELON CLANDESTENOM  3. SETARIA PUNTLA  4	20 20 20 40 40	TYYY Y TOTAL COV	FALU FAL FAL FAL	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.
1. EUPHTURIUM CAPILLERGEUM 2. DICKANTIKURUM, CLANDESTENUM 3. SETARIA PUMPLA 4. 5. 6. 7. 8. 9. 10. 11. 12. Woody Vine Stratum (Plot size: 30 K) 1. CONFURRA JANNER 2. 3. 4. 5.	20 20 20 40 40	TYYY Y TOTAL COV	FALU FAL FAL FAL	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.
1. EDATIVELON CAPILLEDON  2. DICKANTIVELON CLANDESTENOM  3. SETARIA PUNTLA  4	20 20 20 40 40	TYYY Y TOTAL COV	FALU FAL FAL FAL	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.
2. DICKANTIKULUL CLANDESTENUM 3. SETARIA PUMILA 4. 5. 6. 7. 8. 9. 10. 11. 12.  Woody Vine Stratum (Plot size: 30 K) 1. CONDURA JANNUA 2. 3. 4. 5. Remarks: (Include photo numbers here or on a separate	20 20 20 40 40	TYYY Y TOTAL COV	FALU FAL FAL FAL	Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.

	onpuon. (Descri	ine to the debt	h needed to docu	iment the in-	dicator o	r confirm	the absence	of indicator	s.)	
Depth	Matri			ox Features						b .
(inches)	2.5977/2		Color (moist)	%	Type'	Loc <sup>2</sup>	<u>Texture</u>	$\overline{f}_{\ell}$	Remarks	
0-2							SAND	(LOARSE	) .	·
0-2	10 YR Z/1	<u> </u>						ORLAN	to MAI	ERIM
2-8	10 TR 3/3	60	_	_ ~		`	SAMOY	LOAM	•	ZMATR
2-8	10 72 4/4	40	/	_	7	-	Lo AM Y	COARSE	Saws	1
8.20	7.5 1.7/3	570					LOAM Y	COARSE	SAND	7 7 mators
	7.54141							COARSK	3,420	1 C MARN
	1.3 IN 41			<del></del>				COMPLIK	-34~17.	
									<u> </u>	
¹Type: C=C	oncentration, D=[	Depletion, RM=	Reduced Matrix, N	S=Masked S	Sand Gra	ns.	<sup>2</sup> Location: PL	=Pore Lining	M=Matrix	
Hydric Soil								ators for Pro		ydric Soils <sup>3</sup> :
Histosol	(A1)		Dark Surfac	e (S7)				cm Muck (A	-	
Histic E	oipedon (A2)		Polyvalue B	elow Surface				Coast Prairie F		
	istic (A3)			urface (S9) (		17, 148)		(MLRA 147		9
	en Sulfide (A4)			ed Matrix (F2	2)		P	iedmont Floo		(F19) .
	d Layers (A5)		Depleted M		,		П.	(MLRA 136		
	uck (A10) <b>(LRR N</b> d Below Dark Sur			Surface (F6 ark Surface (I				Red Parent Ma		
	ark Surface (A12)			essions (F8)	*			ery Shallow I) Other (Explain		,
	lucky Mineral (S1		_	nese Masses		RR N,		Aller (Explain	III Kemana	
	A 147, 148)		MLRA 1	36)						
	Bleyed Matrix (S4	)	Umbric Surf	ace (F13) <b>(M</b>	ILRA 136	, 122)		icators of hyd		
	Redox (S5)		Piedmont F	oodplain Soi	ls (F19) (	MLRA 148		etland hydrol		
	Matrix (S6)  Layer (if observe	-4\.					u	nless disturbe	ed or probler	matic.
Type:	Layer (II observe	eu):								
Depth (in							Usalaia Cait	D	Yes O	No 🙆
Remarks:	cries)						Hydric Soil	Present?	res	No S
Remarks.	NO INDICA	70 KI OF	WITIAND	SOLL)						
				- 6-						
		ke .								
										, .
,										
		·				,				
						,				
		- SUCTO	I) an (A	100 NON 01	Чс (	.) 7	DATA F	o a M		
	SE	é Shéru	il on u	100 MOUI	45_1	آ (ب	DATA F	orm,		
	SE	É SHEFU	i) on w	100 NON 01	45_1	<b>.</b> λ π	DATA F	oam,		
	SE	é sheru	i) on u	100 NON 1	45_1	ω ī	DATA F	orm,		
	SE	E SHETU	i) on u	100 NOVI	45_1	J ī	DATA F	orm,		
	SÉ	É SHETU	i) on u	100 NON 0]	45_1	ω i	DATA F	oam,		
	SE	É SHETU	i) on w	100 MON 01	45_1	<b>.</b> ) Γ	DATA F	orm,		
	SE	É SHETU	i) on w	100 MON 1	45_1	<b>.</b>	DATA F	ORM,		
	SE	É SHETU	i) on w	100 NOVI	45_1	ω ī	DATA F	orm,		
	SE	E SHETU	i) on u	100 NON 0]	45_1	آ	DATA F	orm,		
	SE	É SHÉTU	i) on w	100 NOV1	45_1	٦ (١	DATA F	oam,		
	SE	é sueto	i) on w	100 NOVI	45_1	<b>.</b> ) π	DATA F	oam,		
	SE	é sheru	i) on w	100 NON 01	45_1	<b>.</b> ) Γ.	DATA F	orm,		
	SE	É SHETU	i) on w	100 NON 0]	45_1	J ī	DATA F	orm,		



Upland data point wnok014\_u facing North



Upland data point wnok014\_u facing South



Upland data point wnok014\_u soil sample

# WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Atlantic Coast Pipe	line	City/C	County: Nottoway County		Sampling Date: 11/9/2015
Applicant/Owner: DOMINION				State: VA	Sampling Point: wnoc100f_w
Investigator(s): Team C		Section			
Landform (hillslope, terrace, etc.	): Floodplain	Local rel	ief (concave, convex, none	e): none	Slope (%): <sup>2</sup>
Subregion (LRR or MLRA): P	•	Lat: 37.1503979	Long: -78.0	2247097	Datum: WGS 1984
Soil Map Unit Name: Mixed alluv	ial land			NWI classific	ation: PEM1Cb, PFO1A
Are climatic / hydrologic condition		ical for this time of year? Y	′es <b>✓</b> No (I	f no, explain in R	emarks.)
Are Vegetation, Soil					
Are Vegetation, Soil					
					, important features, etc.
					,
Hydrophytic Vegetation Present Hydric Soil Present?	t? Yes _	V No	Is the Sampled Area	.,	
Wetland Hydrology Present?		✓ No	within a Wetland?	Yes	No
Remarks:	103_	110			
PFO floodplain forest. Bottomla					
HYDROLOGY					
Wetland Hydrology Indicator	s:			Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of	fone is required;	check all that apply)		Surface Soil	Cracks (B6)
Surface Water (A1)		True Aquatic Plants (		Sparsely Veg	etated Concave Surface (B8)
High Water Table (A2)		Hydrogen Sulfide Od		Drainage Pat	
Saturation (A3)		Oxidized Rhizospher		Moss Trim Li	
Water Marks (B1)		Presence of Reduced			Water Table (C2)
Sediment Deposits (B2)		Recent Iron Reduction		Crayfish Burr	
Drift Deposits (B3)		Thin Muck Surface (0			sible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Iron Deposits (B5)		Other (Explain in Rer		Geomorphic	ressed Plants (D1)
Inundation Visible on Aeria	ıl İmagery (B7)		-	Shallow Aqui	
Water-Stained Leaves (B9			-		phic Relief (D4)
Aquatic Fauna (B13)	,		•	FAC-Neutral	
Field Observations:			<u> </u>	_	(
Surface Water Present?	Yes No	Depth (inches):			
Water Table Present?		Depth (inches):	6		
Saturation Present?		Depth (inches):	0 Wetland Hy	ydrology Presen	t? Yes 🗸 No
(includes capillary fringe)					
Describe Recorded Data (strea	m gauge, monito	pring well, aerial photos, pre	evious inspections), if avail	lable:	
Remarks:					
Wetland hydrology indicators pr	esent				

Sampling Point: wnoc100f_v	mpling P	oint-wnoc100f_	w
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00	Absolute	Dominant Ir	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 )	<u>% Cover</u> 10	Species? _ Yes	Status FACU	Number of Dominant Species
1. Celtis occidentalis			FACW	That Are OBL, FACW, or FAC:4 (A)
2. Platanus occidentalis		Yes	FACW	Total Number of Dominant
3				Species Across All Strata: 7 (B)
4				Paraset of Paraissat Canadia
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 57.14285714 (A/B)
6				(745)
7.				Prevalence Index worksheet:
	15	= Total Cove	•	Total % Cover of: Multiply by:
50% of total cover:7.5		total cover:_	3	OBL species5
Sapling/Shrub Stratum (Plot size: 15 )		_		FACW species6
1 Carpinus caroliniana	20	Yes	FAC	FAC species61 x 3 =183
2. Ilex opaca	5	Yes	FACU	FACU species30 x 4 =120
2				UPL species
3				Column Totals: 102 (A) 320 (B)
4				(7)
5				Prevalence Index = B/A =3.13
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>
	25	= Total Cove		4 - Morphological Adaptations¹ (Provide supporting
50% of total cover:12.5	20% of	total cover:_	5	
Herb Stratum (Plot size:)				data in Remarks or on a separate sheet)
1. Liquidambar styraciflua	30	Yes	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Lonicera japonica	10	Yes	FAC	
3. Quercus falcata	10	Yes	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4 Polystichum acrostichoides	5	No	FACU	be present, unless disturbed or problematic.
5. Carex lupulina	5	No	OBL	Definitions of Four Vegetation Strata:
6. Vitis riparia	1	No	FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
7 Toxicodendron radicans	<del>.</del>	No	FAC	more in diameter at breast height (DBH), regardless of
·				height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless
		= Total Cove		of size, and woody plants less than 3.28 ft tall.
50% of total cover: 31	20% of	total cover:_	12.4	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size:)				height.
1				
2				
3				
4				
5				Hydrophytic Vegetation
	_	= Total Cove		Present? Yes No
50% of total cover: 0		total cover:	0	
Remarks: (Include photo numbers here or on a separate s		total oover		
Remarks. (include prioto numbers here or on a separate s	neet.)			

	cription: (Describe	to the de				or confirm	tne absenc	e or indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Feature %	s Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-2	10 YR 3/2		Color (moist)		Турс	LUC	SL	Nemans
								_
2-10	10 YR 6/4	70	5 YR 3/4	30	C	PL/M	SL	
10-18	5 Y 5/1	80	5 YR 3/4	20	С	PL/M	SL	
								-
		-						
	- '-			·				-
	·	-				<del></del>		-
								· ·
	Concentration, D=Dep	letion, RM	I=Reduced Matrix, MS	S=Masked	d Sand Gr	ains.		PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indi	cators for Problematic Hydric Soils <sup>3</sup> :
Histoso	ol (A1)		Dark Surface	e (S7)				2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be		ice (S8) <b>(I</b>	/ILRA 147,		Coast Prairie Redox (A16)
	listic (A3)		Thin Dark Su					(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye	,	. •	•	<u> </u>	Piedmont Floodplain Soils (F19)
	ed Layers (A5)		Depleted Ma					(MLRA 136, 147)
	uck (A10) (LRR N)		Redox Dark		<del>-</del> 6)			Very Shallow Dark Surface (TF12)
	ed Below Dark Surface	e (A11)	Depleted Da					Other (Explain in Remarks)
	ark Surface (A12)	` ,	Redox Depre					,
	Mucky Mineral (S1) (L	RR N,	Iron-Mangan			LRR N,		
	A 147, 148)	,	MLRA 13		, , ,	•		
	Gleyed Matrix (S4)		Umbric Surfa	•	(MLRA 13	36, 122)	<sup>3</sup> In	dicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					vetland hydrology must be present,
-	d Matrix (S6)		Red Parent N					nless disturbed or problematic.
	Layer (if observed):		_		, ,	<u> </u>	1	· .
Type:	.,							
	a chao).						Usalaia Ca	il Present? Yes No
Depth (ir	icries).						nyuric 30	il Present? Yes No
Remarks:								
lydric soil p	resent							



Photo 1
Wetland data point WNOC100f\_w facing northwest



Photo 2
Wetland data point WNOC100f\_w facing southeast

# WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Atlantic Coast Pipeline	City/County: Nottoway County Sampling Date: 11/9/201							
Applicant/Owner: DOMINION		State: VA Sampling Point: wnoc10						
			ion, Township, Range: No					
Landform (hillslope, terrace, etc.): Slight s								
Subregion (LRR or MLRA): P	Lat:	37.15019532	Long: -78.0	02250724	Datum: WGS 1984			
Soil Map Unit Name: Appling fine sandy lo	am, undulati	ing phase		NWI classific	ation: None			
Are climatic / hydrologic conditions on the	site typical fo	or this time of year? \	Yes No	(If no, explain in R	emarks.)			
Are Vegetation, Soil, or Hy	drology	significantly distu	rbed? Are "Normal	Circumstances" p	present? Yes No			
Are Vegetation, Soil, or Hy								
SUMMARY OF FINDINGS – Atta								
Lindrophytic Vacatation Dracont?	Vac	No. 4		·	· · ·			
Hydrophytic Vegetation Present? Hydric Soil Present?	Yes	No V	Is the Sampled Area					
Wetland Hydrology Present?	Yes		within a Wetland?	Yes	No			
Remarks:								
HYDROLOGY								
Wetland Hydrology Indicators:				Secondary Indica	tors (minimum of two required)			
Primary Indicators (minimum of one is re	quired; check	k all that apply)		Surface Soil				
Surface Water (A1)		True Aquatic Plants						
High Water Table (A2)		Hydrogen Sulfide Oc						
Saturation (A3)			• , ,					
Water Marks (B1)		Presence of Reduce		Dry-Season Water Table (C2) s (C6) Crayfish Burrows (C8)				
Sediment Deposits (B2) Drift Deposits (B3)		Thin Muck Surface (	on in Tilled Soils (C6)	-	isible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)		Other (Explain in Re			tressed Plants (D1)			
Iron Deposits (B5)		O (27)		· <del></del>	Position (D2)			
Inundation Visible on Aerial Imagery	(B7)			Shallow Aqu				
Water-Stained Leaves (B9)				Microtopographic Relief (D4)				
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)			
Field Observations:								
		Depth (inches):						
		Depth (inches):						
Saturation Present? Yes (includes capillary fringe)	_ No	Depth (inches):	Wetland H	lydrology Preser	t? Yes No			
Describe Recorded Data (stream gauge,	monitoring w	vell, aerial photos, pre	evious inspections), if ava	ilable:				
Remarks:								
No wetland hydrology indicators present								

Sampling Point who loo_	Sampling	Point: wnoc100_	u
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00	Absolute	Dominant Ir	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size:)			Status	Number of Dominant Species
1. Carya tomentosa	25	Yes		That Are OBL, FACW, or FAC: 2 (A)
2. Juniperus virginiana	15	Yes	FACU	Total Number of Dominant
3. Quercus falcata	15	Yes	FACU	Species Across All Strata: 7 (B)
4. Liquidambar styraciflua	10	No	FAC	
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 28.57142857 (A/B)
6				That Are OBL, FACW, OF FAC.
7	-			Prevalence Index worksheet:
r	65	= Total Cove		Total % Cover of: Multiply by:
50% of total cover: 32.5		total cover:	13	OBL species0 x 1 =0
15	20 /0 01	total cover		FACW species 0 x 2 = 0
Sapling/Shrub Stratum (Plot size: )  1 Carya tomentosa	15	Yes		FAC species 45 x 3 = 135
2. Carpinus caroliniana	15	Yes	FAC	FACU species 40 x 4 = 160
2. Carpinus caroliniana		165	TAC	0 0
3				UPL species $x = 5 = 0$ $x = 5 = 0$ $y = 5 = 0$ $y = 5 = 0$ $y = 5 = 0$
4				Column Totals: (A) (B)
5				Prevalence Index = B/A = 3.47
6				Trevalence mack = B/Tt =
7				Hydrophytic Vegetation Indicators:
8				1 - Rapid Test for Hydrophytic Vegetation
9.	-			2 - Dominance Test is >50%
ə. <u> </u>	15	Total Cava		3 - Prevalence Index is ≤3.0 <sup>1</sup>
50% of total cover: 15		= Total Cover total cover:	r 6	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50 /0 01 total cover	20% 01	lotal cover		data in Remarks or on a separate sheet)
Herb Stratum (Plot size:5 )  1 Lonicera japonica	20	Voo	EAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
· ·		Yes	FAC	
2. Polystichum acrostichoides	10	Yes	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3				be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				
6				<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
7				height.
8				
9.				Sapling/Shrub – Woody plants, excluding vines, less
10.	-			than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
11	30			Herb – All herbaceous (non-woody) plants, regardless
50% of total cover: 15		= Total Cove	_	of size, and woody plants less than 3.28 ft tall.
0070 01 total 00701:	20% 01	total cover:_		Woody vine – All woody vines greater than 3.28 ft in
/ (1 lot size)				height.
1				
2				
3				
4				Hydrophytic
5				Vegetation
	0	= Total Cove	r	Present? Yes No
50% of total cover:0		total cover:	^	
Remarks: (Include photo numbers here or on a separate s				
Transactor (marage priote name and note of on a coparate of	,			

	cription: (Describe t	o the depth				or confirm	the abser	nce of indicators.)
Depth	Matrix	0′	Redo:	x Features	S1	12	<b>T</b>	D d.
(inches)	Color (moist)	<u>%</u> _	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture LS	e Remarks
0-18	2.5 Y 5/6	100						
					-	<del></del>		
					-	·		<del>-</del>
					-	·		<del>-</del>
	,							
	Concentration, D=Depl	etion, RM=R	educed Matrix, MS	S=Masked	Sand Gr	ains.		: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						In	dicators for Problematic Hydric Soils <sup>3</sup> :
Histoso	l (A1)		Dark Surface	(S7)				_ 2 cm Muck (A10) (MLRA 147)
Histic E	pipedon (A2)		Polyvalue Be	low Surfa	ce (S8) <b>(N</b>	/ILRA 147,	148)	Coast Prairie Redox (A16)
Black H	listic (A3)		Thin Dark Su	rface (S9)	(MLRA 1	147, 148)		(MLRA 147, 148)
Hydroge	en Sulfide (A4)		Loamy Gleye	d Matrix (	F2)			Piedmont Floodplain Soils (F19)
Stratifie	d Layers (A5)		Depleted Mat	trix (F3)				(MLRA 136, 147)
2 cm M	uck (A10) (LRR N)		Redox Dark S	Surface (F	6)			Very Shallow Dark Surface (TF12)
Deplete	ed Below Dark Surface	(A11)	Depleted Dar	k Surface	(F7)			Other (Explain in Remarks)
Thick D	ark Surface (A12)		Redox Depre	ssions (F	8)			
	Mucky Mineral (S1) <b>(L</b>	RR N,	Iron-Mangan	ese Masse	es (F12) <b>(</b>	LRR N,		
	A 147, 148)		MLRA 13	•				
	Gleyed Matrix (S4)		Umbric Surfa					Indicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					wetland hydrology must be present,
Stripped	d Matrix (S6)		Red Parent N	/laterial (F	21) <b>(MLR</b>	A 127, 147	7)	unless disturbed or problematic.
Restrictive	Layer (if observed):							
Type:								
Depth (in	nches):						Hydric S	Soil Present? Yes No
Remarks:								
	il indicators present							
to riyano oo.	in interest of procent							



Photo 1
Upland data point WNOC100\_u facing southwest



Photo 2
Upland data point WNOC100\_u facing northwest

#### WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region City/County: No Howay Sampling Date: 10/12/16 Project/Site: ALP State: V A Sampling Point: wnoo002f Applicant/Owner: Dominion Investigator(s): ESI-Turn boll, Roper Section, Township, Range: none Landform (hillslope, terrace, etc.): drainage Local relief (concave, convex, none): Lon Lave Slope (%): Subregion (LRR or MLRA): LRR P Lat: 37,14805 Long: -78,01865 Datum: WGS 8 Soil Map Unit Name: Madison clay loam, eroded hilly phase NWI classification: PFD Are climatic / hydrologic conditions on the site typical for this time of year? Yes No \_\_\_\_\_ (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes \_\_\_\_\_ No \_\_\_\_\_ Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? (Hurricane Matthew) Heavy rain within 96 hours (approx. 3,5 inches) Remarks: NCWAM: Headwater **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) \_\_\_ Surface Soil Cracks (B6) Primary Indicators (minimum of one is required; check all that apply) \_\_\_ Sparsely Vegetated Concave Surface (B8) \_\_\_ True Aquatic Plants (B14) Surface Water (A1) \_\_\_ Hydrogen Sulfide Odor (C1) \_\_ Drainage Patterns (B10) High Water Table (A2) \_\_\_ Oxidized Rhizospheres on Living Roots (C3) \_\_\_ Moss Trim Lines (B16) Saturation (A3) \_\_\_ Dry-Season Water Table (C2) Presence of Reduced Iron (C4) \_\_\_ Water Marks (B1) Sediment Deposits (B2) \_\_\_ Recent Iron Reduction in Tilled Soils (C6) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) \_\_\_ Thin Muck Surface (C7) Algal Mat or Crust (B4) \_\_\_ Other (Explain in Remarks) Stunted or Stressed Plants (D1) \_\_\_ Geomorphic Position (D2) \_ Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Shallow Aguitard (D3) \_\_\_ Microtopographic Relief (D4) Water-Stained Leaves (B9) \_\_ FAC-Neutral Test (D5) \_\_\_ Aquatic Fauna (B13) Field Observations: No \_\_\_\_ Depth (inches):\_\_ Surface Water Present? Water Table Present? No \_\_\_\_\_ Depth (inches):\_ Wetland Hydrology Present? Yes No \_\_\_\_\_ Depth (inches):\_ Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

1501 150	Absolute	Dominant		Dominance Test worksheet:	
Tree Stratum (Plot size: 15ft x 15ft)  1. Carpinus (aroliniana		Species?		Number of Dominant Species That Are OBL, FACW, or FAC:	(A)
3				Total Number of Dominant Species Across All Strata:	(B)
4				Percent of Dominant Species That Are OBL, FACW, or FAC: 831/,	(A/B)
6				Prevalence Index worksheet:	
7				Total % Cover of: Multiply by:	
7.5	_5_	= Total Cove	er	OBL species x 1 =	
50% of total cover: 2.5	20% of	total cover:			
Sapling/Shrub Stratum (Plot size: 15ft x 16ft)				FACW species x 2 =	
1. none				FAC species x 3 =	
2				FACU species x 4 =	
3				UPL species x 5 =	
4				Column Totals: (A)	_ (B)
5 6				Prevalence Index = B/A =	
				Hydrophytic Vegetation Indicators:	
7					
8				2 - Dominance Test is >50%	
9,	_			3 - Prevalence Index is ≤3.01	
F00/ -f4-4-1	2004 =6	= Total Cove	er	4 - Morphological Adaptations <sup>1</sup> (Provide supp	oorting
50% of total cover: Herb Stratum (Plot size: 15ft x 15ft)	20% 01	total cover:		data in Remarks or on a separate sheet)	
	2.0	V	FAL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain	n)
1. Microstegium vimineum	10	-			
2. Chasmanthium laxum		- 7 V	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology m	nust
3. Polystichum acrostichoides		7	FACU	be present, unless disturbed or problematic.	
4. Bidens tripartita	10	<u> </u>	FACW	Definitions of Four Vegetation Strata:	
5. Agrimonia parviflora	10		FACW		
6				Tree – Woody plants, excluding vines, 3 in. (7.6 of more in diameter at breast height (DBH), regardle	cm) or
7				height.	233 01
8					1
9				Sapling/Shrub - Woody plants, excluding vines, than 3 in. DBH and greater than or equal to 3.28	ft (1
10				m) tall.	. (.
11					
	100	= Total Cove		Herb – All herbaceous (non-woody) plants, regar of size, and woody plants less than 3.28 ft tall.	aless
50% of total cover: 30 Woody Vine Stratum (Plot size: 15 ft x 15 ft)	20% of	total cover:	16	Woody vine – All woody vines greater than 3.28 height.	ft in
1. none				Total	
2					
3					
4					
5	and the same of th	-		Hydrophytic Vegetation	
J	^	= Total Cove		Present? Yes No No No	
50% of total cover:					
		total cover.			
Remarks: (Include photo numbers here or on a separate s	heet.)				

Sampling Point:

	ription: (Describe t	o tile deptil	needed to docun	ent the in	idicator (	or confirm	the absence	of indicators.)
Depth	Matrix			Features		- 7		5
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-2	104R2/1	100					5	
2-20	101/24/2	90	101R6/6	10	0	M		
			•					
							2	
	ncentration, D=Depl	etion, RM=R	Reduced Matrix, MS	=Masked	Sand Gra	ins.	*Location: F	L=Pore Lining, M=Matrix.  ators for Problematic Hydric Soils <sup>3</sup> :
Hydric Soil I			- 1- 1					en no estado do traballo de altra de la como estado de la como de
Histosol			Dark Surface		- (CO) (84	100 147		2 cm Muck (A10) (MLRA 147)
HISTIC EP	ipedon (A2)		Polyvalue Be Thin Dark Sur				148) (	Coast Prairie Redox (A16) (MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye			47, 140)		Piedmont Floodplain Soils (F19)
	Layers (A5)		Depleted Mat		-/			(MLRA 136, 147)
	ck (A10) (LRR N)		Redox Dark S		5)		_ \	/ery Shallow Dark Surface (TF12)
Depleted	Below Dark Surface	(A11)	Depleted Dar				_ (	Other (Explain in Remarks)
	rk Surface (A12)		Redox Depre					
	ucky Mineral (S1) (L	RR N,	Iron-Mangane		s (F12) (I	RR N,		
	147, 148)		MLRA 130		/II D A 12	c 122\	3100	licators of hydrophytic vegetation and
Sandy G	eyed Matrix (S4)		Piedmont Flo					etland hydrology must be present,
	Matrix (S6)		Red Parent M					nless disturbed or problematic.
	ayer (if observed):			atorial (i E	., (			
Type:								,
Depth (inc	hes):		_				Hydric Soi	Present? Yes No
Remarks:								
3								
2								



Wetland data point wnoo002f\_w facing west.



Wetland data point wnoo002f\_w facing northwest.

WETLAND DETERMINATION DATA FO	RM – Eastern Mountains and Piedmont Region
Project/Site: A CP	City/County: Nottoway Sampling Date: 10/12/16
Applicant/Owner: Dominion	State: V A Sampling Point: Wn00002.
Investigator(s): ESI- Turnbull, Roper	
Subregion (LRR or MLRA): LPPP Lat: 37,1480	cal relief (concave, convex, none): <u>CONCAVE</u> Slope (%): <u>7-5'</u> 505 <u>Long: -78.01865</u> <u>Datum: W6584</u>
Soil Man Unit Name: Madisan (lav laam ec	oded hilly phase NWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time of year	
	disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally pro	
SUMMARY OF FINDINGS – Attach site map snowing	sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Remarks:  Character Modeller (1) Heavy rain within	Is the Sampled Area within a Wetland?  Yes No
Remarks: (Hurricane Matthew) Heavy rain within Oct. 8-9, 2016	(approx. 3,3 menes)
HYDROLOGY	Casandan Indicators (minimum of two required)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)  Surface Soil Cracks (B6)
Surface Water (A1)  True Aquatic Plants	
High Water Table (A2)  Hydrogen Sulfid	
	spheres on Living Roots (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of Re	
	duction in Tilled Soils (C6) Crayfish Burrows (C8)
Drift Deposits (B3) Thin Muck Surfa	ace (C7) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Other (Explain i	
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	. 10
Surface Water Present? Yes No Depth (inches)	
Water Table Present? Yes No Depth (inches)	/
Saturation Present? Yes No Depth (inches) (includes capillary fringe)	Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photo	s, previous inspections), if available:
Remarks:	

Sampling Point: WnooDDZ-a

of Dominant Species
of Dominant (B)  minant Species (A/B)
minant Species , FACW, or FAC:
minant Species , FACW, or FAC:
minant Species , FACW, or FAC: 7/1/1 (A/B)  ndex worksheet:  Cover of: Multiply by: x 1 =
, FACW, or FAC:/
, FACW, or FAC:/
Cover of: Multiply by: x 1 =
Cover of: Multiply by: x 1 =
x 1 =
s x 2 =
x 3 =
s x 4 =
x 5 =
s: (A) (B)
nce Index = B/A =
Vegetation Indicators:
Test for Hydrophytic Vegetation
nance Test is >50%
ence Index is ≤3.01
ological Adaptations <sup>1</sup> (Provide supporting
Remarks or on a separate sheet)
tic Hydrophytic Vegetation <sup>1</sup> (Explain)
tic Hydrophytic vegetation (Explain)
hydric soil and wetland hydrology must
nless disturbed or problematic.
f Four Vegetation Strata:
plants, excluding vines, 3 in. (7.6 cm) or eter at breast height (DBH), regardless of
iter at breast height (DBH), regardless of
b – Woody plants, excluding vines, less
I and greater than or equal to 3.28 ft (1
baceous (non-woody) plants, regardless
oody plants less than 3.28 ft tall.
- All woody vines greater than 3.28 ft in
/
/
Yes √ No
Yes No
;

	ription: (Describe)	to the depth	needed to docum	ent the indicator	or confirm	the absenc	e of indicator	3.)	
Depth	Matrix		Redox	Features		_3			
(inches)	Color (moist)	%	Color (moist)	% Type	Loc2	Texture		Remarks	
0-3	10YR 3/1	100				SL			
3-15	2.54 4/2	100				S			
15-20	2.54 5/2	100				SL			
¹Type: C=Co	ncentration, D=Depl	letion, RM=F	Reduced Matrix, MS:	=Masked Sand G	rains.	<sup>2</sup> Location: 1	PL=Pore Linin	ng, M=Matrix.	
Hydric Soil I						Indi	cators for Pro	oblematic Hy	dric Soils3:
Histosol	(A1)		Dark Surface (	(57)				10) (MLRA 14	(7)
	ipedon (A2)			ow Surface (S8) (		148)	Coast Prairie		
Black His				face (S9) (MLRA	147, 148)		(MLRA 147		F40)
	n Sulfide (A4)		Loamy Gleyed Depleted Matr			_	(MLRA 136	odplain Soils (	F19)
	Layers (A5) ck (A10) (LRR N)		Redox Dark S					Dark Surface	(TF12)
	Below Dark Surface	e (A11)	Depleted Dark					n in Remarks)	
	rk Surface (A12)	, ,	Redox Depres						
	ucky Mineral (S1) (L	RR N,		se Masses (F12)	(LRR N,				
	147, 148)		MLRA 136			3			
	leyed Matrix (S4)			e (F13) (MLRA 1 odplain Soils (F19)				drophytic vego ogy must be p	
	edox (S5) Matrix (S6)			aterial (F21) (MLF				ed or problema	
			INCUIT CITCHE IVI	aterial (1 2 1) (III 2	CA 127, 147)	u	incoo diotarbe	a or problem	NIO!
Restrictive L									
	ayer (if observed):								
Туре:	.ayer (if observed):					Hydric So	il Present?	Yes	No/_
Type: Depth (inc			_	3		Hydric So	il Present?	Yes	No
Туре:	.ayer (if observed):		_			Hydric So	il Present?	Yes	No
Type: Depth (inc	.ayer (if observed):					Hydric So	il Present?	Yes	No
Type: Depth (inc	.ayer (if observed):					Hydric So	il Present?	Yes	No <u> </u>
Type: Depth (inc	.ayer (if observed):					Hydric So	il Present?	Yes	No <u> </u>
Type: Depth (inc	.ayer (if observed):					Hydric So	il Present?	Yes	No <u> </u>
Type: Depth (inc	.ayer (if observed):					Hydric So	il Present?	Yes	No <u></u>
Type: Depth (inc	.ayer (if observed):					Hydric So	il Present?	Yes	No <u> </u>
Type: Depth (inc	.ayer (if observed):					Hydric So	il Present?	Yes	No <u> </u>
Type: Depth (inc	.ayer (if observed):					Hydric So	il Present?	Yes	No <u> </u>
Type: Depth (inc	.ayer (if observed):					Hydric So	il Present?	Yes	No <u>/</u>
Type: Depth (inc	.ayer (if observed):					Hydric So	il Present?	Yes	No
Type: Depth (inc	.ayer (if observed):					Hydric So	il Present?	Yes	No <u> </u>
Type: Depth (inc	.ayer (if observed):					Hydric So	il Present?	Yes	No <u> </u>
Type: Depth (inc	.ayer (if observed):					Hydric So	il Present?	Yes	No <u>/</u>
Type: Depth (inc	.ayer (if observed):					Hydric So	il Present?	Yes	No
Type: Depth (inc	.ayer (if observed):					Hydric So	il Present?	Yes	No
Type: Depth (inc	.ayer (if observed):					Hydric So	il Present?	Yes	No
Type: Depth (inc	.ayer (if observed):					Hydric So	il Present?	Yes	No
Type: Depth (inc	.ayer (if observed):					Hydric So	il Present?	Yes	No
Type: Depth (inc	.ayer (if observed):					Hydric So	il Present?	Yes	No
Type: Depth (inc	.ayer (if observed):					Hydric So	il Present?	Yes	No



Upland data point wnoo002\_u facing southwest.



Upland data point wnoo002\_u facing southeast.

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region Project/Site: HCP City/County: Nottoway Sampling Date: 10/12/16 State: VA Sampling Point: Wno 6001f Applicant/Owner: Dominion Investigator(s): ESI-Turn bull, Roper Section, Township, Range: None Landform (hillslope, terrace, etc.): drainage Local relief (concave, convex, none): Con cave Slope (%): 7 Lat: 37. 14743 Long: -78. 01743 Datum: W6584 Subregion (LRR or MLRA): L R P clay loam, eroded hilly phase NWI classification: Soil Map Unit Name: Madison Are climatic / hydrologic conditions on the site typical for this time of year? Yes \_\_\_\_\_ No \_\_\_\_\_ (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Remarks: (Hurricane Matthew) Heavy rain within 96 hours (approx 3.5 inches) 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) Sparsely Vegetated Concave Surface (B8) \_\_\_ True Aquatic Plants (B14) Surface Water (A1) \_\_\_ Drainage Patterns (B10) High Water Table (A2) \_\_\_ Hydrogen Sulfide Odor (C1) \_\_\_ Oxidized Rhizospheres on Living Roots (C3) \_\_\_ Moss Trim Lines (B16) Saturation (A3) \_\_ Water Marks (B1) Presence of Reduced Iron (C4) \_\_ Dry-Season Water Table (C2) Sediment Deposits (B2) Recent Iron Reduction in Tilled Soils (C6) Crayfish Burrows (C8) \_\_\_ Thin Muck Surface (C7) \_\_ Saturation Visible on Aerial Imagery (C9) \_\_ Drift Deposits (B3) Other (Explain in Remarks) Stunted or Stressed Plants (D1) \_\_ Algal Mat or Crust (B4) \_ Iron Deposits (B5) Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Shallow Aquitard (D3) ✓ Water-Stained Leaves (B9) \_\_\_ Microtopographic Relief (D4) \_\_\_ Aquatic Fauna (B13) \_\_ FAC-Neutral Test (D5) Field Observations: No Depth (inches): NA Surface Water Present? Yes No Depth (inches): Water Table Present? Wetland Hydrology Present? Yes \_\_\_\_\_ Yes \_\_\_\_ No \_\_\_\_ Depth (inches):\_ Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

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

Sampling Point: wnoodblf\_w

15 C1 15 C1	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 15ft x 15ft)		Species?	Status	Number of Dominant Species
1. Carpinus caroliniana	15	7	FAC	That Are OBL, FACW, or FAC:(A)
2. Acer rubrum	10		FAC	Total Number of Dominant
3. Liriodendron tulipifera	_ 5	N	FACU	Species Across All Strata: (B)
4				Barrent of Barringet Casarina
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 871, (A/B)
6				marke obe, move, or more (va)
7				Prevalence Index worksheet:
		= Total Cov	Pr	Total % Cover of: Multiply by:
50% of total cover: _ ] 5	20% of	total cover:	6	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15ft x 15ft)				FACW species x 2 =
1. Carpinus caroliniana	5	Y	FAC	FAC species x 3 =
2. Lindera benzoin	5	y	FAC.	FACU species x 4 =
				UPL species x 5 =
3				Column Totals: (A) (B)
4				Column Totals(A)(B)
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0¹
_	10 =	Total Cove	er	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover: 5	20% of	total cover:_	2	
Herb Stratum (Plot size: 15ft x 15ft)				data in Remarks or on a separate sheet)
1. Polystichum acrostichoides	15	Y	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Chasmanthium laxum	15	Y	FAC	
3. Microstegium vimineum	20	Y	FAC	Indicators of hydric soil and wetland hydrology must
		Calculation of the Color		be present, unless disturbed or problematic.
5				Definitions of Four Vegetation Strata:
				Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
6				more in diameter at breast height (DBH), regardless of
7				height.
8				Sapling/Shrub - Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless
2.5	50 =	Total Cove	r	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 25	20% of t	otal cover:_	10	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 15 ft x 15 ft)		26.1	Den Mondineson	height.
1. Smilax rotundifolia	10	<u> </u>	FAC	
2				
3	CT 3 a T T 10 (10 2 3 2 3	No. in contrast of the Contras		
4.				
5.				Hydrophytic Vegetation
	10 =	Total Covo		Present? Yes V No No
50% of total cover: 5		Total Cove otal cover:_	7	
		otal cover	45-0	
Remarks: (Include photo numbers here or on a separate sh	ieet.)			
				1
				1

Sampling Point: WNDOODI F\_W

Profile Description: (Describe	to the dept			dicator o	or confirm	the absence	e of indicate	ors.)	
Depth Matrix (inches) Color (moist)	%	Color (moist)	x Features %	Type <sup>1</sup>	Loc²	Texture		Remarks	
0-12 2.544/1	85	104 R 4/10	15	C.	M	S		Remarks	
12-20 2.544/		1011-16				-5			
12-20 2.31 11	100								
						*			
-			-				-		
<sup>1</sup> Type: C=Concentration, D=De	pletion, RM=I	Reduced Matrix, M	S=Masked :	Sand Gra	ins.			ng, M=Matrix.	
Hydric Soil Indicators:						Indic	ators for Pi	roblematic Hy	dric Soils3:
Histosol (A1)		Dark Surface						A10) (MLRA 1	47)
Histic Epipedon (A2)		Polyvalue Be				148) (		Redox (A16)	
<ul><li>Black Histic (A3)</li><li>Hydrogen Sulfide (A4)</li></ul>		Thin Dark St Loamy Gleye		-	47, 148)	r	(MLRA 14	9 <b>7, 148)</b> Dodplain Soils (	(E10)
Stratified Layers (A5)		Depleted Ma		2)		— '	(MLRA 13		(1-15)
2 cm Muck (A10) (LRR N)		Redox Dark		i)		\		Dark Surface	(TF12)
Depleted Below Dark Surface	ce (A11)	Depleted Da				_ (	Other (Expla	in in Remarks)	
Thick Dark Surface (A12)		Redox Depre			7 <u>50 40</u> 7 190				
Sandy Mucky Mineral (S1) (	LRR N,	Iron-Mangan		s (F12) <b>(L</b>	.RR N,				
MLRA 147, 148)  Sandy Gleyed Matrix (S4)		MLRA 13 Umbric Surfa		/I DΔ 136	5 122)	3Inc	dicators of h	ydrophytic veg	etation and
X Sandy Redox (S5)		Piedmont Flo	odplain So	ils (F19) (	MLRA 148			logy must be p	
Stripped Matrix (S6)		Red Parent N						ed or problema	
Restrictive Layer (if observed)	:								
Туре:									
Depth (inches):		_				Hydric Soi	I Present?	Yes X	No
Remarks:									
		<u> </u>							



Wetland data point wnoo001f\_w facing west.



Wetland data point wnoo001f\_w facing south.

Project/Site: ACP City/C	County: Nottoway Sampling Date: 10/12/16
	State: V A Sampling Point: Whoo ODI =
Investigator(s): ESI-Turn bull Roper Section	on, Township, Range: NON C
Landform (hillslope, terrace, etc.): drainage Local rel	
Subregion (LRR or MLRA): LRR P Lat: 37.14743	Long: -78,01743 Datum: W6584
Soil Map Unit Name: Madison Clay loam, eroded	
	/   '
Are climatic / hydrologic conditions on the site typical for this time of year? Y	
Are Vegetation, Soil, or Hydrology significantly distur	
Are Vegetation, Soil, or Hydrology naturally problems	
SUMMARY OF FINDINGS – Attach site map showing san	ipling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	Is the Sampled Area
Hydric Soil Present? Yes No	within a Wetland? Yes No
Wetland Hydrology Present? Yes No	
Remarks: (Hurricane Matthew) Heavy rain within 91	e hours (Eppiox. 3,5 inches)
0 ct. 8-9, 2016	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) True Aquatic Plants (	
High Water Table (A2) Hydrogen Sulfide Od	50.00 (1.70
Saturation (A3) Oxidized Rhizospher	
Water Marks (B1) Presence of Reduced	
Sediment Deposits (B2) Recent Iron Reductio	
Drift Deposits (B3) Thin Muck Surface (C	
Algal Mat or Crust (B4) Other (Explain in Rer Iron Deposits (B5)	marks) Stunted or Stressed Plants (D1) Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes No Depth (inches):	
Saturation Present? Yes No Depth (inches):	Wetland Hydrology Present? Yes No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:
Remarks:	
	•

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

Sampling Point: Wn Do DDI - 4

2 (1 2-1)	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30ff x 30ff)	% Cover	Species?	Status	Number of Dominant Species
1. Pinus taeda	20	Y	FAL	That Are OBL, FACW, or FAC: (A)
2. Carpinus caroliniana	10	V	FAC	.,
3. Liriodendron tulipifera	10	- V	FACU	Total Number of Dominant Species Across All Strata:  5 (B)
				Species Across All Strata: (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 401. (A/B)
6				
7				Prevalence Index worksheet:
-	LID	<del></del>		Total % Cover of: Multiply by:
50% of total cover: 20	70	= Total Cove	er D	OBL species x 1 =
	20% of	total cover:_	0	
Sapling/Shrub Stratum (Plot size: 30f4 x 30f4)				FACW species x 2 =
1. Liriodendron tulipifera	ID	7	FACU	FAC species <u>30</u> x 3 = <u>90</u>
2		,		FACU species 35 x 4 = 140
3				UPL species x 5 =
				Column Totals: 65 (A) 230 (B)
4				17 19 19 19 19 19 19 19 19 19 19 19 19 19
5				Prevalence Index = B/A = 3.5
6				Hydrophytic Vegetation Indicators:
7				
8				1 - Rapid Test for Hydrophytic Vegetation
0				2 - Dominance Test is >50%
50% of total cover: 5	10	=		3 - Prevalence Index is ≤3.0 <sup>1</sup>
500/ 61.11	10 =	= Total Cove	7	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover:	_ 20% of	total cover:_	-	data in Remarks or on a separate sheet)
				Problematic Hydrophytic Vegetation¹ (Explain)
1. Polystichum acrostichoides	15	<u> </u>	FACU	Problematic Hydrophytic Vegetation (Explain)
2				
3				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				Tens Mondy plants evaluating vines 2 in (7.6 cm) as
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
7				height.
8				
				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
10		-		iii) tali.
11				Herb - All herbaceous (non-woody) plants, regardless
7		Total Cove		of size, and woody plants less than 3.28 ft tall.
50% of total cover: 1,5	_ 20% of	total cover:_	3	
Woody Vine Stratum (Plot size: 30f+ x 30f+)				Woody vine – All woody vines greater than 3.28 ft in height.
1. none			1	neight.
2				
3				
4				Hydrophytic
5				Vegetation
	0 =	Total Cover		Present? Yes No
50% of total cover:				AND AND A STATE OF THE STATE OF
		otal cover		
Remarks: (Include photo numbers here or on a separate sh	eet.)			

Sampling Point: Wnooll-u

	10	to the depth	n needed to document the indicator or con	firm the absenc	ce of indicators.)	
Depth (inches)	Matrix Color (moist)	%	Redox Features  Color (moist) % Type¹ Loc²	Texture	Remarks	
0-4	104R3/2	100	Color (moist) 76 Type Ede	5	Remarks	
	1016 16				_	
4-16	101R413	100				
16-20	104R4/Z	IDD		5		
					_	
				_	-	
O				Telebon Marian Marian		
1				2		
		pletion, RM=F	Reduced Matrix, MS=Masked Sand Grains.		PL=Pore Lining, M=Matrix. icators for Problematic H	
Hydric Soil						
Histosol			Dark Surface (S7)		2 cm Muck (A10) (MLRA 1	
	oipedon (A2) stic (A3)		<ul><li>Polyvalue Below Surface (S8) (MLRA 1</li><li>Thin Dark Surface (S9) (MLRA 147, 148</li></ul>		Coast Prairie Redox (A16) (MLRA 147, 148)	)
	en Sulfide (A4)		Loamy Gleyed Matrix (F2)		Piedmont Floodplain Soils	(F19)
	d Layers (A5)		Depleted Matrix (F3)		(MLRA 136, 147)	(113)
	ick (A10) (LRR N)		Redox Dark Surface (F6)		Very Shallow Dark Surface	e (TF12)
	d Below Dark Surface	ce (A11)	Depleted Dark Surface (F7)		Other (Explain in Remarks	
Thick Da	ark Surface (A12)		Redox Depressions (F8)			
	lucky Mineral (S1) (	LRR N,	Iron-Manganese Masses (F12) (LRR N,			
	A 147, 148)		MLRA 136)			*
	Sleyed Matrix (S4)		Umbric Surface (F13) (MLRA 136, 122)		ndicators of hydrophytic ve	
	Redox (S5)		Piedmont Floodplain Soils (F19) (MLRA		wetland hydrology must be	
	Matrix (S6)		Red Parent Material (F21) (MLRA 127,	147) L	unless disturbed or problem	natic.
	Layer (if observed)					,
Туре:			_			/
	ches):		_	Hydric Sc	oil Present? Yes	_ No
Remarks:						

# Environmental Field Surveys Wetland Photo Page



Upland data point wnoo001\_u facing north.



Project/Site: Atlantic Coast Pipeline	City/C	County: Nottoway		Sampling Date: 12/5/2014			
Applicant/Owner: DOMINION			State: VA Sampling Point: wnoc001e_w				
	Secti						
Landform (hillslope, terrace, etc.): Floodplain							
Subregion (LRR or MLRA): P							
Soil Map Unit Name: Mixed alluvial land			NWI classifica	ation: None			
Are climatic / hydrologic conditions on the site							
Are Vegetation, Soil, or Hydro	logy significantly distu	bed? Are "Normal	Circumstances" p	resent? Yes No			
Are Vegetation, Soil, or Hydro							
SUMMARY OF FINDINGS – Attach							
Hydrophytic Vegetation Present? Ye	es <u> </u>						
	No	Is the Sampled Area	V V	No			
	s No	within a Wetland?	Yes	NO			
Remarks:							
HYDROLOGY							
Wetland Hydrology Indicators:			Secondary Indicat	tors (minimum of two required)			
Primary Indicators (minimum of one is requir	and: chack all that apply)		Surface Soil (				
			etated Concave Surface (B8)				
Surface Water (A1)  High Water Table (A2)	True Aquatic Plants ( Hydrogen Sulfide Od		Sparsery veg Drainage Pat				
Saturation (A3)		Drainage Fat Moss Trim Lir					
Water Marks (B1)	Presence of Reduce			Vater Table (C2)			
Sediment Deposits (B2)	Recent Iron Reduction	` ,	Crayfish Burr				
Drift Deposits (B3)	Thin Muck Surface (0		-	sible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	Other (Explain in Rei	marks)	Stunted or St	ressed Plants (D1)			
Iron Deposits (B5)			Geomorphic I	Position (D2)			
Inundation Visible on Aerial Imagery (B7	7)		Shallow Aquit	tard (D3)			
Water-Stained Leaves (B9)			Microtopographic Relief (D4)				
Aquatic Fauna (B13)			FAC-Neutral	Test (D5)			
Field Observations:	. 4						
	No Depth (inches):	11					
	No Depth (inches):	<u> </u>		,			
Saturation Present? Yes ! (includes capillary fringe)	No Depth (inches):	Wetland H	ydrology Present	t? Yes <u>/</u> No			
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, pre	evious inspections), if avail	lable:				
Remarks:							
Wetland hydrology present							

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

\_\_)

50% of total cover: \_\_\_

50% of total cover: \_\_\_0

50% of total cover:

50% of total cover: \_\_\_0

<u>% Cover</u> <u>эресівэ</u>
10 Yes

100 = Total Cover 50 20% of total cover: 20

30

Sapling/Shrub Stratum (Plot size: 15 )

2. Persicaria sagittata

3. Leersia virginica\_\_\_\_\_\_

Woody Vine Stratum (Plot size: \_\_\_\_\_\_)

Tree Stratum (Plot size: \_\_\_

Herb Stratum (Plot size: \_\_\_ 1. Solidago altissima

1. Salix nigra

mes of plants.	Sampling Point: wnoc001e_w				
bsolute Dominant Indi					
% Cover Species? St	- Number of Dominant Species	۹)			
	Total Number of Dominant Species Across All Strata: 3 (E	3)			
	Percent of Dominant Species That Are OBL, FACW, or FAC: 66.6666666 (A	4/B)			
<del></del>	Prevalence Index worksheet:				
10 _ Total Cavar	Total % Cover of: Multiply by:				
= Total Cover 20% of total cover:	OBL species35 x 1 =35				
_ 20 /0 Of total cover	FACW species 15 x 2 = 30				
	FAC species $0 \times 3 = 0$				
	FACU species 60 x 4 = 240				
<del></del>	UPL species0 x 5 =0				
	<del>-</del>	(B)			
	Prevalence Index = B/A =2.77				
	Hydrophytic Vegetation Indicators:				
	1 - Rapid Test for Hydrophytic Vegetation				
	✓ 2 - Dominance Test is >50%				
	— 3 - Prevalence Index is ≤3.0 <sup>1</sup>				
0 = Total Cover	4 - Morphological Adaptations <sup>1</sup> (Provide suppor	rtina			
20% of total cover:	data in Remarks or on a separate sheet)				
60 Yes F	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)				
25 Yes	-  ,				
15 No F	<ul> <li>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.</li> </ul>	st			
	Definitions of Four Vegetation Strata:				
	Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardless height.				
	Sapling/Shrub – Woody plants, excluding vines, le than 3 in. DBH and greater than or equal to 3.28 ft m) tall.				
100 = Total Cover	Herb – All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall.	ess			
20% of total cover:	Woody vine – All woody vines greater than 3.28 ft height.	in			
0 = Total Cover 20% of total cover:	Hydrophytic Vegetation Present? Yes No				

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

Profile Desc	cription: (Describe to	the dep	th needed to docun	nent the i	ndicator	or confirm	the abs	ence of indicators.)
Depth	Matrix		Redox	x Feature:	s			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Textu	
0-9	2.5 Y 5/2	95	7.5 YR 3/4	5	С	PL	SICI	-
9-14	2.5 Y 5/1	80	10 YR 5/6	20	С	PL/M	SCL	
								·
							-	
								<del></del>
					-			
							-	
<sup>1</sup> Type: C=C	oncentration, D=Deple	etion. RM	=Reduced Matrix, MS	S=Masked	Sand Gr	ains.	<sup>2</sup> Locatio	n: PL=Pore Lining, M=Matrix.
Hydric Soil		<i>y</i> ,	Troudoud manny me					ndicators for Problematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface	(S7)				2 cm Muck (A10) <b>(MLRA 147)</b>
	pipedon (A2)		Polyvalue Be		ce (S8) <b>(N</b>	ILRA 147	148)	Coast Prairie Redox (A16)
	istic (A3)		Tolyvalde Be				, _	(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye	. ,	•	,,		Piedmont Floodplain Soils (F19)
	d Layers (A5)		<u>✓</u> Depleted Mat		/		_	(MLRA 136, 147)
	uck (A10) (LRR N)		Redox Dark S		-6)			Very Shallow Dark Surface (TF12)
	d Below Dark Surface	(A11)	Depleted Dar					Other (Explain in Remarks)
Thick Da	ark Surface (A12)		Redox Depre					
Sandy N	Mucky Mineral (S1) (LI	RR N,	Iron-Mangan	ese Mass	es (F12) <b>(</b>	LRR N,		
MLR	A 147, 148)		MLRA 13	6)				
Sandy C	Gleyed Matrix (S4)		Umbric Surfa	ce (F13) (	(MLRA 13	6, 122)		<sup>3</sup> Indicators of hydrophytic vegetation and
Sandy F	Redox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	l8)	wetland hydrology must be present,
	d Matrix (S6)		Red Parent N	/laterial (F	21) <b>(MLR</b>	A 127, 147	7)	unless disturbed or problematic.
Restrictive	Layer (if observed):							
Type:								
Depth (in	ches):						Hydric	Soil Present? Yes No
Remarks:	,							
Hydric soil pro	esent							
riyano con pr	000110							



Photo 1 Wetland data point wnoc001e\_w facing north



Photo 2
Wetland data point wnoc001e\_w facing east



Photo 3
Wetland data point wnoc001e\_w facing south



Photo 4
Wetland data point wnoc001e\_w facing west

Project/Site: Atlantic Coast Pipeline		City/C	county: Nottoway		Sampling Date: 12/5/2014		
Applicant/Owner: DOMINION				State: VA Sampling Point: wnoc001f_w			
			on, Township, Range: No				
Landform (hillslope, terrace, etc.): Ba					Slope (%):2		
Subregion (LRR or MLRA): P	Lat:	37.13965903	Long: -78.	00166321	Datum: WGS 1984		
Soil Map Unit Name: Wehadkee silt k	oam			NWI classifi	cation: PFO1A		
Are climatic / hydrologic conditions or	the site typical fo						
Are Vegetation, Soil,							
Are Vegetation, Soil,							
SUMMARY OF FINDINGS -							
				<u> </u>	· •		
Hydrio Soil Broant?		No _ No	Is the Sampled Area				
Hydric Soil Present? Wetland Hydrology Present?		No	within a Wetland?	Yes	No		
Remarks:	163						
HYDROLOGY							
Wetland Hydrology Indicators:				•	ators (minimum of two required)		
Primary Indicators (minimum of one	•	call that apply)  True Aquatic Plants (	D4.4)	Surface Soil			
Surface Water (A1) ✓ High Water Table (A2)		Sparsely ve ✓ Drainage Pa	getated Concave Surface (B8)				
Saturation (A3)		Hydrogen Sulfide Od		Moss Trim L			
Water Marks (B1)		Presence of Reduced	=		Water Table (C2)		
Sediment Deposits (B2)		Recent Iron Reductio	, ,	Crayfish Bui			
Drift Deposits (B3)		Thin Muck Surface (C		-	isible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)		Other (Explain in Rer	narks)	Stunted or S	Stressed Plants (D1)		
Iron Deposits (B5)				✓ Geomorphic			
Inundation Visible on Aerial Ima	.gery (B7)			Shallow Aquitard (D3)			
Water-Stained Leaves (B9)					aphic Relief (D4)		
Aquatic Fauna (B13)				FAC-Neutra	Test (D5)		
Field Observations:	🗸	D (1 (1 )					
	No		6				
	No			lydrology Prese			
Saturation Present? Yes (includes capillary fringe)	NO	Depth (inches):	wetiand r	lydrology Prese	nt? Yes V No		
Describe Recorded Data (stream ga	uge, monitoring w	vell, aerial photos, pre	vious inspections), if ava	ilable:			
Remarks:							
Wetland hydrology present.							
l l l l l l l l l l l l l l l l l l l							

- wnoc001t_	_w
	wnoc001f_

00	Absolute	Dominant In		Dominance Test worksheet:
Tree Stratum (Plot size:)			Status	Number of Dominant Species
1. Platanus occidentalis	40	Yes	FACW	That Are OBL, FACW, or FAC:6 (A)
2. Acer rubrum	20	Yes	FAC	Total Number of Deminent
3. Liquidambar styraciflua	20	Yes	FAC	Total Number of Dominant Species Across All Strata:  6 (B)
Δ Pinus taeda	5	No	FAC	Species 767035 7111 Citata.
T		· · · · · · · · · · · · · · · · · · ·		Percent of Dominant Species
5				That Are OBL, FACW, or FAC:100 (A/B)
6				Prevalence Index worksheet:
7				
		= Total Cover		Total % Cover of: Multiply by:  ORL species 0 x 1 = 0
50% of total cover: <u>42.5</u>	20% of	total cover:	17	ODL species
Sapling/Shrub Stratum (Plot size: 15				FACW species x 2 =
1 Lindera benzoin	10	Yes	FAC	FAC species80
				FACU species0 x 4 =0
2				UPL species 0 x 5 = 0
3				120 320
4				Column Totals: (A) (B)
5				Prevalence Index = B/A = 2.66
6				1 Tevalence index = B/Tt =
				Hydrophytic Vegetation Indicators:
7			-	1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>
	10	= Total Cover		4 - Morphological Adaptations¹ (Provide supporting
50% of total cover:5	20% of	total cover:	2	
Herb Stratum (Plot size:5				data in Remarks or on a separate sheet)
1 Lonicera japonica	15	Yes	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Smilax rotundifolia	10	Yes	FAC	
			170	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3				be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				
6			<u>.</u>	<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or
				more in diameter at breast height (DBH), regardless of
7				height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11.				<b>Herb</b> – All herbaceous (non-woody) plants, regardless
	25	= Total Cover	<u>.</u>	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 12.5		total cover:	5	Ι
Woody Vine Stratum (Plot size: 30 )				Woody vine – All woody vines greater than 3.28 ft in
· (1 lot 3/26.				height.
1				
2				
3				
4				the december of a
5.			<u>.</u>	Hydrophytic Vegetation
<u> </u>	0 :	= Total Cover		Present? Yes No
50% of total cover:		total cover:	0	
30 % of total cover:		total cover		
Remarks: (Include photo numbers here or on a separate s	heet.)			

Profile Desc	cription: (Describe t	o the de	pth needed to docur	nent the i	ndicator	or confirm	the absence	e of indicators.)
Depth	Matrix	<u> </u>	Redo	x Feature		. ,	_	
(inches) 0-6	Color (moist) 2.5 Y 5/2	<u>%</u> 85	Color (moist) 5 YR 3/4	<u>%</u> 15	Type <sup>1</sup> C	Loc <sup>2</sup> PL/M	<u>Texture</u> CL	Remarks
6-14	5 Y 5/1	90	5 YR 3/4	10	C	PL/M	SICL	
		-			-			
							,	
		-			-			
1- 0.0				<del></del>			2	
		etion, RM	1=Reduced Matrix, MS	S=Masked	d Sand Gr	ains.		PL=Pore Lining, M=Matrix. cators for Problematic Hydric Soils <sup>3</sup> :
Hydric Soil			Davis Confess	(07)				•
Histosol	oipedon (A2)		Dark Surface Polyvalue Be		ce (S8) <b>(I</b>	MI DA 147	· · · · · · · · · · · · · · · · · · ·	2 cm Muck (A10) (MLRA 147) Coast Prairie Redox (A16)
	stic (A3)		Polyvalue Be				1 <del>7</del> 0)	(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye		•	147, 140)		Piedmont Floodplain Soils (F19)
	d Layers (A5)		<u>✓</u> Depleted Ma		–/		_	(MLRA 136, 147)
	uck (A10) (LRR N)		Redox Dark		<del>-</del> 6)			Very Shallow Dark Surface (TF12)
Depleted	d Below Dark Surface	(A11)	Depleted Dar	k Surface	(F7)			Other (Explain in Remarks)
	ark Surface (A12)		Redox Depre					
	lucky Mineral (S1) <b>(L</b>	RR N,	Iron-Mangan		es (F12) (	LRR N,		
	A 147, 148)		MLRA 13				3.	
	Gleyed Matrix (S4)		Umbric Surfa					ndicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					vetland hydrology must be present,
	Matrix (S6)  Layer (if observed):		Red Parent N	nateriai (F	(WILK	A 127, 147	') L	inless disturbed or problematic.
	Layer (ii observed).							
Type:	-l).						Ultraduita Ca	oil Present? Yes No
Depth (in	cnes):						Hydric Sc	oil Present? Yes No
Remarks:								
Hydric soil pre	esent.							



Photo 1
Wetland data point WNOC001f\_w facing north



Photo 2
Wetland data point WNOC001f\_w facing east



Photo 3
Wetland data point WNOC001f\_w facing south



Photo 4
Wetland data point WNOC001f\_w facing west

Project/Site: Atlantic Coast Pipeline	City/Cou	nty: Nottoway	Sampling Date: 12/5/2014			
Applicant/Owner: DOMINION		State: \	VA Sampling Point: wnoc001_u1			
		Township, Range: No PLSS in				
Landform (hillslope, terrace, etc.): Hillslope						
Subregion (LRR or MLRA): P						
Soil Map Unit Name: Mixed alluvial land		NWI	classification: None			
Are climatic / hydrologic conditions on the site ty						
Are Vegetation, Soil, or Hydrolog						
Are Vegetation, Soil, or Hydrolog						
SUMMARY OF FINDINGS – Attach						
		,	, ,			
	No. 4	the Sampled Area	-/			
	No w	vithin a Wetland? Yes	s No			
Remarks:						
LIVEROLOGY						
HYDROLOGY		Canada	and a disease (asia income of two as a visual)			
Wetland Hydrology Indicators:	le about all that apply)		ary Indicators (minimum of two required)			
Primary Indicators (minimum of one is required	• • • • • • • • • • • • • • • • • • • •		ace Soil Cracks (B6)			
Surface Water (A1)	True Aquatic Plants (B1		rsely Vegetated Concave Surface (B8)			
High Water Table (A2)	<ul><li>Hydrogen Sulfide Odor (</li><li>Oxidized Rhizospheres</li></ul>		nage Patterns (B10)			
Saturation (A3) Water Marks (B1)	Oxidized Kriizospheres		s Trim Lines (B16) Season Water Table (C2)			
Sediment Deposits (B2)	Recent Iron Reduction in		rish Burrows (C8)			
Drift Deposits (B3)	Thin Muck Surface (C7)		ration Visible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	Other (Explain in Remar		nted or Stressed Plants (D1)			
Iron Deposits (B5)			morphic Position (D2)			
Inundation Visible on Aerial Imagery (B7)			llow Aquitard (D3)			
Water-Stained Leaves (B9)			Microtopographic Relief (D4)			
Aquatic Fauna (B13)		FAC	-Neutral Test (D5)			
Field Observations:						
	Depth (inches):					
	Depth (inches):					
Saturation Present? Yes No (includes capillary fringe)	Depth (inches):	Wetland Hydrology	y Present? Yes No			
Describe Recorded Data (stream gauge, monit	oring well, aerial photos, previo	us inspections), if available:				
Remarks:						
No wetland hydrology present						

Sampling	Point: wnoc001	_u1
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00	Absolute	Dominant In		Dominance Test worksheet:
Tree Stratum (Plot size:)			Status	Number of Dominant Species
1. Juniperus virginiana	10	Yes	FACU	That Are OBL, FACW, or FAC: (A)
2. Ulmus americana	10	Yes	FACW	T. IN I CD
3		·		Total Number of Dominant Species Across All Strata:  4 (B)
4				Species Across Air Strata(D)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 50 (A/B)
6				Prevalence Index worksheet:
7				
	20	= Total Cove	r	Total % Cover of: Multiply by:
50% of total cover: 10	20% of	total cover:_	4	OBL species 0 x 1 = 0
Sapling/Shrub Stratum (Plot size: 15				FACW species10 x 2 =20
1 Ligustrum japonicum	10	Yes	UPL	FAC species 70 x 3 = 210
·· <u>·</u>				FACU species 25 x 4 = 100
2				UPL species10 x 5 =50
3				115 380
4				Column Totals: (A) (B)
5				Prevalence Index = B/A = 3.3
6			_	Trevalence mack = B/TC =
				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>
40		= Total Cove	r 1	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover:10	20% of	total cover:_		data in Remarks or on a separate sheet)
Herb Stratum (Plot size:5				·
1. Lonicera japonica	70	Yes	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Polystichum acrostichoides	15	No	FACU	
3	-			<sup>1</sup> Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6				more in diameter at breast height (DBH), regardless of
7				height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11.				
· ··-	85	= Total Cove		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 42.5		total cover:_		or size, and wesdy plants less than 6.20 it tall.
0070 01 10101 00 1011	20 /0 01	total cover		Woody vine – All woody vines greater than 3.28 ft in
· (1 lot size.				height.
1				
2				
3				
4				Lhadrombastic
5.				Hydrophytic Vegetation
	0	= Total Cove	-	Present? Yes No
50% of total cover: 0		total cover:_	0	
Remarks: (Include photo numbers here or on a separate s		10101 00101		
Remarks. (include prioto numbers here of on a separate s	neet.)			

Depth	Matrix	<del></del> _	Redox Features			
inches)	Color (moist)	<u>%</u>	Color (moist) % Type <sup>1</sup>		ture	Remarks
0-3	10 YR 2/2	100			S	
3-14	7.5 YR 4/6	100			S	
	-	· <del></del>				
	-	· <del></del>				
Tuno: C-C	oncontration D_Don	lotion BM_Ba	educed Matrix, MS=Masked Sand Grain	21 000	tion: PL=Pore Li	ining M-Motriy
	Indicators:	ietion, Rivi=Re	educed Matrix, MS=Masked Sand Grain	5. LUG		Problematic Hydric Soils
-			Dorle Curfo on (C7)			
Histosol		•	Dark Surface (S7)	0.4.47.4.40\		(A10) <b>(MLRA 147)</b>
	pipedon (A2)	•	<ul><li>Polyvalue Below Surface (S8) (MLI</li><li>Thin Dark Surface (S9) (MLRA 147</li></ul>			rie Redox (A16)
	istic (A3)	•		, 148)	•	147, 148)
	en Sulfide (A4)	•	Loamy Gleyed Matrix (F2)			Floodplain Soils (F19)
	d Layers (A5) uck (A10) <b>(LRR N)</b>	•	Depleted Matrix (F3)			136, 147)
<del></del>	d Below Dark Surface	o (A11)	<ul><li>Redox Dark Surface (F6)</li><li>Depleted Dark Surface (F7)</li></ul>			ow Dark Surface (TF12) plain in Remarks)
	ark Surface (A12)	5 (ATT)	Redox Depressions (F8)		Other (Exp	nain in Nemarks)
	Aucky Mineral (S1) <b>(L</b>	DD N	Iron-Manganese Masses (F12) (LR	D N		
	A 147, 148)	-NN N,	MLRA 136)	.K N,		
	Gleyed Matrix (S4)		Umbric Surface (F13) (MLRA 136,	122\	3Indicators of	hydrophytic vegetation and
	Redox (S5)		Piedmont Floodplain Soils (F19) (M			rology must be present,
	Matrix (S6)		Red Parent Material (F21) (MLRA			rbed or problematic.
	Layer (if observed):		Red Falerii Maleriai (F21) (MLRA	127, 147)	uriless distu	ibed of problematic.
	Layer (II observed).					
T			<del>_</del>			<i>. .</i> .
Type:				Llva	ric Soil Present	? Yes No
Type: Depth (inc	ches):		_	пуц		
Depth (inc	ches):		<del>-</del>	Пуц		
Depth (inc			<del></del>	Пуа		
Depth (inc			<del>-</del>	Пуц		
Depth (inc			_	пуи		
Depth (inc			_	nyu		
Depth (inc			_	nyu		
Depth (ind			_	nyu		
Depth (ind			_	nyu		
Depth (ind			_	nyu		
Depth (inc			_	, nyu		
Depth (ind				, nyu		
Depth (ind				, nyu		
Depth (inc				, nyu		
Depth (ind				nyu		
Depth (inc				nyu		
Depth (ind			_	nyu		
Depth (inc			_	nyu		
Depth (inc				nyu		
Depth (inc				nyu		
Depth (inc				nyu		
				nyu		
Depth (inc				nyu		
Depth (inc				nyu		
Depth (inc				nyu		



Photo 1 Upland data point wnoc001\_u1 facing north



Photo 2
Upland data point wnoc001\_u1 facing east



Photo 3 Upland data point wnoc001\_u1 facing south



Photo 4
Upland data point wnoc001\_u1 facing west

Project/Site: Atlantic Coast Pipeline		City/C	County: Nottoway		Sampling Date: 12/5/2014	
Applicant/Owner: DOMINION				State: VA	Sampling Point: wnoc001_u2	
Investigator(s): Team C		Secti	on, Township, Range: No	PLSS in this area	1	
Landform (hillslope, terrace, etc.): Hill S						
Subregion (LRR or MLRA): P						
Soil Map Unit Name: Bremo loam, erod	ed hilly phase			NWI classific	ation: None	
Are climatic / hydrologic conditions on the						
Are Vegetation, Soil, or		-				
Are Vegetation, Soil, or						
SUMMARY OF FINDINGS – A						
					, , , , , , , , , , , , , , , , , , , ,	
Hydrio Soil Propert?	Yes	No	Is the Sampled Area			
Hydric Soil Present? Wetland Hydrology Present?	Yes		within a Wetland?	Yes	No	
Remarks:	165	NO				
HYDROLOGY						
Wetland Hydrology Indicators:				Secondary Indica	tors (minimum of two required)	
Primary Indicators (minimum of one is	required; check	k all that apply)		Surface Soil	Cracks (B6)	
Surface Water (A1)		True Aquatic Plants (	(B14)	Sparsely Vegetated Concave Surface (B8)		
High Water Table (A2)		Hydrogen Sulfide Od	or (C1)	Drainage Pa	tterns (B10)	
Saturation (A3)		Oxidized Rhizospher	es on Living Roots (C3)	Moss Trim L	ines (B16)	
Water Marks (B1)	_	Presence of Reduce	d Iron (C4)	Dry-Season	Water Table (C2)	
Sediment Deposits (B2)		Recent Iron Reduction	on in Tilled Soils (C6)	Crayfish Bur	rows (C8)	
Drift Deposits (B3)		Thin Muck Surface (			sible on Aerial Imagery (C9)	
Algal Mat or Crust (B4)		Other (Explain in Rei	marks)	· <del></del>	tressed Plants (D1)	
Iron Deposits (B5)	(57)				Position (D2)	
Inundation Visible on Aerial Image	ry (B7)			Shallow Aqu		
<ul><li>Water-Stained Leaves (B9)</li><li>Aquatic Fauna (B13)</li></ul>				FAC-Neutral	aphic Relief (D4)	
Field Observations:				170 Neutiai	1031 (00)	
	No 🗸	Depth (inches):				
		Depth (inches):				
		Depth (inches):		lydrology Preser	nt? Yes No ✔	
(includes capillary fringe)						
Describe Recorded Data (stream gaug	je, monitoring w	vell, aerial photos, pre	evious inspections), if ava	ilable:		
Remarks:						
No wetland hydrology present.						

ocuu1 <sub>.</sub>	_u2
	oc001 <sub>.</sub>

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

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



Photo 1 Upland data point WNOC001\_u2 facing north



Photo 2
Upland data point WNOC001\_u2 facing east



Photo 3
Upland data point WNOC001\_u2 facing south



Photo 4
Upland data point WNOC001\_u2 facing west

Project/Site: Atlantic Coast Pipeline	City/C	County: Nottoway		Sampling Date: 12/5/2014
Applicant/Owner: DOMINION			State: VA	Sampling Point: wnoc001e_w
	Secti			
Landform (hillslope, terrace, etc.): Floodplain				
Subregion (LRR or MLRA): P				
Soil Map Unit Name: Mixed alluvial land			NWI classifica	ation: None
Are climatic / hydrologic conditions on the site				
Are Vegetation, Soil, or Hydro	logy significantly distu	bed? Are "Normal	Circumstances" p	resent? Yes No
Are Vegetation, Soil, or Hydro				
SUMMARY OF FINDINGS – Attach				
Hydrophytic Vegetation Present? Ye	es <u> </u>			
	No	Is the Sampled Area	V V	No
	s No	within a Wetland?	Yes	NO
Remarks:				
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indicat	tors (minimum of two required)
Primary Indicators (minimum of one is requir	and: chack all that apply)		Surface Soil (	
				etated Concave Surface (B8)
Surface Water (A1)  High Water Table (A2)	True Aquatic Plants ( Hydrogen Sulfide Od		Sparsery veg Drainage Pat	
Saturation (A3)	✓ Oxidized Rhizospher		Drainage Fat Moss Trim Lir	
Water Marks (B1)	Presence of Reduce			Vater Table (C2)
Sediment Deposits (B2)	Recent Iron Reduction	` ,	Crayfish Burr	
Drift Deposits (B3)	Thin Muck Surface (		-	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Rei	marks)	Stunted or St	ressed Plants (D1)
Iron Deposits (B5)			Geomorphic I	Position (D2)
Inundation Visible on Aerial Imagery (B7	7)		Shallow Aquit	tard (D3)
Water-Stained Leaves (B9)			<del></del>	phic Relief (D4)
Aquatic Fauna (B13)			FAC-Neutral	Test (D5)
Field Observations:	. 1			
	No Depth (inches):	11		
	No Depth (inches):	<u> </u>		,
Saturation Present? Yes ! (includes capillary fringe)	No Depth (inches):	Wetland H	ydrology Present	t? Yes <u>/</u> No
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, pre	evious inspections), if avail	lable:	
Remarks:				
Wetland hydrology present				

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

\_\_)

50% of total cover: \_\_\_

50% of total cover: \_\_\_0

50% of total cover:

50% of total cover: \_\_\_0

<u>% Cover</u> <u>эресівэ</u>
10 Yes

100 = Total Cover 50 20% of total cover: 20

30

Sapling/Shrub Stratum (Plot size: 15 )

2. Persicaria sagittata

3. Leersia virginica\_\_\_\_\_\_

Woody Vine Stratum (Plot size: \_\_\_\_\_\_)

Tree Stratum (Plot size: \_\_\_

Herb Stratum (Plot size: \_\_\_ 1. Solidago altissima

1. Salix nigra

mes of plants.	Sampling Point: wnoc001e_w					
bsolute Dominant Indi						
% Cover Species? St	- Number of Dominant Species	۹)				
	Total Number of Dominant Species Across All Strata: 3 (E	3)				
	Percent of Dominant Species That Are OBL, FACW, or FAC: 66.6666666 (A	4/B)				
<del></del>	Prevalence Index worksheet:					
10 _ Total Cavar	Total % Cover of: Multiply by:					
= Total Cover 20% of total cover:	OBL species35 x 1 =35					
_ 20 /0 Of total cover	FACW species 15 x 2 = 30					
	FAC species $0 \times 3 = 0$					
	FACU species 60 x 4 = 240					
<del></del>	UPL species0 x 5 =0					
	<del>-</del>	(B)				
	Prevalence Index = B/A =2.77					
	Hydrophytic Vegetation Indicators:					
	1 - Rapid Test for Hydrophytic Vegetation					
	✓ 2 - Dominance Test is >50%					
	— 3 - Prevalence Index is ≤3.0 <sup>1</sup>					
0 = Total Cover	4 - Morphological Adaptations <sup>1</sup> (Provide suppor	rtina				
20% of total cover:	data in Remarks or on a separate sheet)	J				
60 Yes F	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)					
25 Yes	-  ,					
15 No F	<ul> <li>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.</li> </ul>	st				
	Definitions of Four Vegetation Strata:					
	Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardless height.					
	Sapling/Shrub – Woody plants, excluding vines, le than 3 in. DBH and greater than or equal to 3.28 ft m) tall.					
100 = Total Cover	Herb – All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall.	ess				
20% of total cover:	Woody vine – All woody vines greater than 3.28 ft in height.					
0 = Total Cover 20% of total cover:	Hydrophytic Vegetation Present? Yes No					

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

Profile Desc	cription: (Describe to	the dep	th needed to docun	nent the i	ndicator	or confirm	the abs	ence of indicators.)
Depth	Matrix		Redox	x Feature:	s			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Textu	
0-9	2.5 Y 5/2	95	7.5 YR 3/4	5	С	PL	SICI	-
9-14	2.5 Y 5/1	80	10 YR 5/6	20	С	PL/M	SCL	
								·
							-	
								<del></del>
					-			
							-	
<sup>1</sup> Type: C=C	oncentration, D=Deple	etion. RM	=Reduced Matrix, MS	S=Masked	Sand Gr	ains.	<sup>2</sup> Locatio	n: PL=Pore Lining, M=Matrix.
Hydric Soil		<i>y</i> ,	Troudoud manny me					ndicators for Problematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface	(S7)				2 cm Muck (A10) <b>(MLRA 147)</b>
	pipedon (A2)		Polyvalue Be		ce (S8) <b>(N</b>	ILRA 147	148)	Coast Prairie Redox (A16)
	istic (A3)		Tolyvalde Be				, _	(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye	. ,	•	,,		Piedmont Floodplain Soils (F19)
	d Layers (A5)		<u>✓</u> Depleted Mat		/		_	(MLRA 136, 147)
	uck (A10) (LRR N)		Redox Dark S		-6)			Very Shallow Dark Surface (TF12)
	d Below Dark Surface	(A11)	Depleted Dar					Other (Explain in Remarks)
Thick Da	ark Surface (A12)		Redox Depre					
Sandy N	Mucky Mineral (S1) (LI	RR N,	Iron-Mangan	ese Mass	es (F12) <b>(</b>	LRR N,		
MLR	A 147, 148)		MLRA 13	6)				
Sandy C	Gleyed Matrix (S4)		Umbric Surfa	ce (F13) (	(MLRA 13	6, 122)		<sup>3</sup> Indicators of hydrophytic vegetation and
Sandy F	Redox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	l8)	wetland hydrology must be present,
	d Matrix (S6)		Red Parent N	/laterial (F	21) <b>(MLR</b>	A 127, 147	7)	unless disturbed or problematic.
Restrictive	Layer (if observed):							
Type:								
Depth (in	ches):						Hydric	Soil Present? Yes No
Remarks:	,							
Hydric soil pro	esent							
riyano con pr	000110							



Photo 1 Wetland data point wnoc001e\_w facing north



Photo 2
Wetland data point wnoc001e\_w facing east



Photo 3
Wetland data point wnoc001e\_w facing south



Photo 4
Wetland data point wnoc001e\_w facing west

Project/Site: Atlantic Coast Pipeline		City/C	county: Nottoway		Sampling Date: 12/5/2014	
Applicant/Owner: DOMINION				State: VA	Sampling Point: wnoc001f_w	
			on, Township, Range: No			
Landform (hillslope, terrace, etc.): Ba					Slope (%):2	
Subregion (LRR or MLRA): P	Lat:	37.13965903	Long: -78.	00166321	Datum: WGS 1984	
Soil Map Unit Name: Wehadkee silt k	oam			NWI classifi	cation: PFO1A	
Are climatic / hydrologic conditions or	the site typical fo					
Are Vegetation, Soil,						
Are Vegetation, Soil,						
SUMMARY OF FINDINGS -						
				<u> </u>	· •	
Hydrio Soil Broant?		No _ No	Is the Sampled Area			
Hydric Soil Present? Wetland Hydrology Present?		No	within a Wetland?	Yes	No	
Remarks:	163					
HYDROLOGY						
Wetland Hydrology Indicators:				•	ators (minimum of two required)	
Primary Indicators (minimum of one	•		D4.4)	Surface Soil		
Surface Water (A1) ✓ High Water Table (A2)		True Aquatic Plants ( Hydrogen Sulfide Od		Sparsely ve ✓ Drainage Pa	getated Concave Surface (B8)	
Saturation (A3)				Moss Trim L		
Water Marks (B1)		Presence of Reduced	=		Water Table (C2)	
Sediment Deposits (B2)		Recent Iron Reductio	, ,	Crayfish Burrows (C8)		
Drift Deposits (B3)		Thin Muck Surface (C		-	isible on Aerial Imagery (C9)	
Algal Mat or Crust (B4)		Other (Explain in Rer	narks)	Stunted or S	Stressed Plants (D1)	
Iron Deposits (B5)				✓ Geomorphic		
Inundation Visible on Aerial Ima	.gery (B7)			Shallow Aqu		
Water-Stained Leaves (B9)					aphic Relief (D4)	
Aquatic Fauna (B13)				FAC-Neutra	Test (D5)	
Field Observations:	🗸	D (1 (1 )				
	No		6			
	No			lydrology Prese		
Saturation Present? Yes (includes capillary fringe)	NO	Depth (inches):	wetiand r	lydrology Prese	nt? Yes V No	
Describe Recorded Data (stream ga	uge, monitoring w	vell, aerial photos, pre	vious inspections), if ava	ilable:		
Remarks:						
Wetland hydrology present.						
l l l l l l l l l l l l l l l l l l l						

- wnoc001t_	_w
	wnoc001f_

00	Absolute	Dominant In		Dominance Test worksheet:
Tree Stratum (Plot size:)			Status	Number of Dominant Species
1. Platanus occidentalis	40	Yes	FACW	That Are OBL, FACW, or FAC:6 (A)
2. Acer rubrum	20	Yes	FAC	Total Number of Deminent
3. Liquidambar styraciflua	20	Yes	FAC	Total Number of Dominant Species Across All Strata:  6 (B)
Δ Pinus taeda	5	No	FAC	Species 767035 7111 Citata.
T		· · · · · · · · · · · · · · · · · · ·		Percent of Dominant Species
5				That Are OBL, FACW, or FAC:100 (A/B)
6				Prevalence Index worksheet:
7				
		= Total Cover		Total % Cover of: Multiply by:  ORL species 0 x 1 = 0
50% of total cover: 42.5	20% of	total cover:	17	ODL species
Sapling/Shrub Stratum (Plot size: 15				FACW species x 2 =
1 Lindera benzoin	10	Yes	FAC	FAC species80
				FACU species0 x 4 =0
2				UPL species 0 x 5 = 0
3				120 320
4				Column Totals: (A) (B)
5				Prevalence Index = B/A = 2.66
6				1 Tevalence index = B/Tt =
				Hydrophytic Vegetation Indicators:
7			-	1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>
	10	= Total Cover		4 - Morphological Adaptations¹ (Provide supporting
50% of total cover:5	20% of	total cover:	2	
Herb Stratum (Plot size:5				data in Remarks or on a separate sheet)
1 Lonicera japonica	15	Yes	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Smilax rotundifolia	10	Yes	FAC	
			170	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3				be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				
6			<u>.</u>	<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or
				more in diameter at breast height (DBH), regardless of
7				height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11.				<b>Herb</b> – All herbaceous (non-woody) plants, regardless
	25	= Total Cover	<u>.</u>	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 12.5		total cover:	5	Ι
Woody Vine Stratum (Plot size: 30 )				Woody vine – All woody vines greater than 3.28 ft in
· (1 lot 3/26.				height.
1				
2				
3				
4				the december of a
5.			<u>.</u>	Hydrophytic Vegetation
<u> </u>	0 :	= Total Cover		Present? Yes No
50% of total cover:		total cover:	0	
30 % of total cover:		total cover		
Remarks: (Include photo numbers here or on a separate s	heet.)			

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)         %         Type¹         Loc²         Texture         Remarks           0-6         2.5 Y 5/2         85         5 YR 3/4         15         C         PL/M         CL	
6-14 5 Y 5/1 90 5 YR 3/4 10 C PL/M SICL	
·	
1	
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.	-:lo <sup>3</sup> .
Hydric Soil Indicators: Indicators for Problematic Hydric S	oolis :
Histosol (A1)	
Follyvalue Below Surface (S6) (MLRA 147, 146) Coast Frame Redox (A16) Black Histic (A3) Thin Dark Surface (S9) (MLRA 147, 148) (MLRA 147, 148)	
Stratified Layers (A5) Depleted Matrix (F3) (MLRA 136, 147)	
2 cm Muck (A10) (LRR N) Redox Dark Surface (F6) Very Shallow Dark Surface (TF12	2)
Depleted Below Dark Surface (A11)	
Thick Dark Surface (A12) Redox Depressions (F8)	
Sandy Mucky Mineral (S1) (LRR N, Iron-Manganese Masses (F12) (LRR N,	
MLRA 147, 148) MLRA 136)	
Sandy Gleyed Matrix (S4) Umbric Surface (F13) (MLRA 136, 122)   Sandy Gleyed Matrix (S4) Umbric Surface (F13) (MLRA 136, 122)   Sandy Gleyed Matrix (S4) Umbric Surface (F13) (MLRA 136, 122)   Sandy Gleyed Matrix (S4) Umbric Surface (F13) (MLRA 136, 122)   Sandy Gleyed Matrix (S4) Umbric Surface (F13) (MLRA 136, 122)   Sandy Gleyed Matrix (S4) Umbric Surface (F13) (MLRA 136, 122)   Sandy Gleyed Matrix (S4) Umbric Surface (F13) (MLRA 136, 122)   Sandy Gleyed Matrix (S4) Umbric Surface (F13) (MLRA 136, 122)   Sandy Gleyed Matrix (S4) Umbric Surface (F13) (MLRA 136, 122)   Sandy Gleyed Matrix (S4) Umbric Surface (F13) (MLRA 136, 122)   Sandy Gleyed Matrix (S4) Umbric Surface (F13) (MLRA 136, 122)   Sandy Gleyed Matrix (S4) Umbric Surface (F13) (MLRA 136, 122)   Sandy Gleyed Matrix (S4) Umbric Surface (F13) (MLRA 136, 122)   Sandy Gleyed Matrix (S5) Umbric Surface (F13) (MLRA 136, 122)   Sandy Gleyed Matrix (S5) Umbric Surface (F13) (MLRA 136, 122)   Sandy Gleyed Matrix (S5) Umbric Surface (F13) (MLRA 136, 122)   Sandy Gleyed Matrix (S5) Umbric Surface (F13) (MLRA 136, 122)   Sandy Gleyed Matrix (S5) Umbric Surface (F13) (MLRA 136, 122)   Sandy Gleyed Matrix (S5) Umbric Surface (F13) (MLRA 136, 122)   Sandy Gleyed Matrix (S5) Umbric Surface (F13) (MLRA 136, 122)   Sandy Gleyed Matrix (S5) Umbric Surface (F13) (MLRA 136, 122)   Sandy Gleyed Matrix (S5) Umbric Surface (F13) (MLRA 136, 122)   Sandy Gleyed Matrix (S5) Umbric Surface (F13) (MLRA 136, 122)   Sandy Gleyed Matrix (S5) Umbric Surface (F13) (MLRA 136, 122)   Sandy Gleyed Matrix (S5) Umbric Surface (F13) (MLRA 136, 122)   Sandy Gleyed Matrix (S5) Umbric Surface (F13) (MLRA 136, 122)   Sandy Gleyed Matrix (S5) Umbric Surface (F13) (MLRA 136, 122)   Sandy Gleyed Matrix (S5) Umbric Surface (F13) (MLRA 136, 122)   Sandy Gleyed Matrix (S5) Umbric Surface (F13) (MLRA 136, 122)   Sandy Gleyed Matrix (S5) Umbric Surface	
Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) wetland hydrology must be presen Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) unless disturbed or problematic.	τ,
Restrictive Layer (if observed):	
Type:	
Depth (inches): Hydric Soil Present? Yes No	
Remarks:	
Hydric soil present.	
Trydite son present.	



Photo 1
Wetland data point WNOC001f\_w facing north



Photo 2
Wetland data point WNOC001f\_w facing east



Photo 3
Wetland data point WNOC001f\_w facing south



Photo 4
Wetland data point WNOC001f\_w facing west

Project/Site: Atlantic Coast Pipeline			City/	County: Nottoway		Sampling Date: 12/5/2014
Applicant/Owner: DOMINION					State: VA	Sampling Point: wnoc001_u1
				tion, Township, Ran		
Landform (hillslope, terrace, etc.): Hillslope						
Subregion (LRR or MLRA): P						
Soil Map Unit Name: Mixed alluvial land					NWI cla	ssification: None
Are climatic / hydrologic conditions on the s	site typical fo	or this tir				
Are Vegetation, Soil, or Hyd						
Are Vegetation, Soil, or Hyd						
SUMMARY OF FINDINGS – Atta						
					·	· ·
	Yes			Is the Sampled		
	Yes			within a Wetland	d? Yes _	No
Remarks:	100					
LIVED OF COX						
HYDROLOGY					0	all actions (as is in our of two as a size I)
Wetland Hydrology Indicators:		L = H (L = )				ndicators (minimum of two required)
Primary Indicators (minimum of one is rec				(D4.4)		Soil Cracks (B6)
Surface Water (A1)			quatic Plants			y Vegetated Concave Surface (B8)
High Water Table (A2)		-	en Sulfide O	aor (C1) eres on Living Roots	-	e Patterns (B10)
Saturation (A3) Water Marks (B1)			ce of Reduce	_		rim Lines (B16) Ison Water Table (C2)
Sediment Deposits (B2)				ion in Tilled Soils (C		Burrows (C8)
Drift Deposits (B3)			uck Surface (			on Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)			Explain in Re			or Stressed Plants (D1)
Iron Deposits (B5)	_			,		phic Position (D2)
Inundation Visible on Aerial Imagery	(B7)					Aquitard (D3)
Water-Stained Leaves (B9)						oographic Relief (D4)
Aquatic Fauna (B13)					FAC-Ne	eutral Test (D5)
Field Observations:						
			(inches):			
			(inches):			
Saturation Present? Yes (includes capillary fringe)	_ No _ 🗸	Depth	(inches):	Wet	land Hydrology Pr	esent? Yes No
Describe Recorded Data (stream gauge,	monitoring v	well, aer	ial photos, pr	revious inspections)	, if available:	
Remarks:						
No wetland hydrology present						

Sampling	Point: wnoc001	_u1
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00	Absolute	Dominant In		Dominance Test worksheet:
Tree Stratum (Plot size:)			Status	Number of Dominant Species
1. Juniperus virginiana	10	Yes	FACU	That Are OBL, FACW, or FAC: 2 (A)
2. Ulmus americana	10	Yes	FACW	Total New horse ( Descious)
3				Total Number of Dominant Species Across All Strata: 4 (B)
1				Opecies Across All otrata.
T		<del></del>		Percent of Dominant Species
5				That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7				
	20	= Total Cove	r	Total % Cover of: Multiply by:
50% of total cover:10	20% of	total cover:_	4	OBL species
Sapling/Shrub Stratum (Plot size: 15				FACW species10
1 Ligustrum japonicum	10	Yes	UPL	FAC species 70 x 3 = 210
·· <u>·</u>				FACU species25
2				UPL species 10 x 5 = 50
3				115 380
4				Column Totals: (A) (B)
5				Prevalence Index = B/A = 3.3
6				1 Tevalence index = B/T(=
				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>
40		= Total Cove	r ,	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover:10	20% of	total cover:_	4	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5				
1. Lonicera japonica	70	Yes	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Polystichum acrostichoides	15	No	FACU	
3.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6				more in diameter at breast height (DBH), regardless of
7				height.
8				ContinuiChauth Weath plants and which is a
9				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
				,
11	85			Herb – All herbaceous (non-woody) plants, regardless
50% of total cover: 42.5		= Total Cove		of size, and woody plants less than 3.28 ft tall.
0070 01 10101 00701:	20% of	total cover:_		Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size:)				height.
1				
2				
3				
4				
5.				Hydrophytic
J				Vegetation Present? Yes No
0		= Total Cove	r O	1103CHC: 103 NO
50% of total cover:0		total cover:_		
Remarks: (Include photo numbers here or on a separate s	heet.)			

Depth	<u>Matrix</u>		Redox Features				
inches)	Color (moist)	<u>%</u>	Color (moist) % Type <sup>1</sup> Lo	oc² Textu	re	Remarks	
0-3	10 YR 2/2	100		S			
3-14	7.5 YR 4/6	100		S			
				<del></del> -			
•							
				<del></del> -			
				<del></del> -			
Type: C=C	oncentration D=Den	etion RM=Re	educed Matrix, MS=Masked Sand Grains.	<sup>2</sup> Locatio	n: PL=Pore Lin	ing M=Matrix	
	Indicators:	ouon, ruvi–ru	Saassa Marix, Mo-Maskea Saria Stains.			roblematic Hyd	ric Soils³:
Histosol			Dark Surface (S7)			(A10) <b>(MLRA 14</b>	
	oipedon (A2)		Polyvalue Below Surface (S8) (MLRA	\ 1 <i>1</i> 7 1 <i>1</i> 9\		e Redox (A16)	')
	stic (A3)		Thin Dark Surface (S9) (MLRA 147,		Coast Frain		
	en Sulfide (A4)		Loamy Gleyed Matrix (F2)	140)	•	47, 146) Ioodplain Soils (F	T10\
	d Layers (A5)		Depleted Matrix (F3)	•			19)
	ick (A10) <b>(LRR N)</b>		Redox Dark Surface (F6)		(MLRA 1:	w Dark Surface (	TE12)
	d Below Dark Surface	· (A11)	Redox Bark Surface (F6) Depleted Dark Surface (F7)	-		w Dark Suriace ( ain in Remarks)	1712)
	ark Surface (A12)	F (A11)	Redox Depressions (F8)	•	Other (Explo	alli ili Kelliaiks)	
	fik Sulface (A12) lucky Mineral (S1) <b>(L</b>	DD N	Iron-Manganese Masses (F12) (LRR	N			
	147, 148)	.KK N,	MLRA 136)	IV,			
	Gleyed Matrix (S4)		Umbric Surface (F13) (MLRA 136, 12	221	3Indicators of h	nydrophytic vege	tation and
	Redox (S5)		Piedmont Floodplain Soils (F19) (ML			ology must be pr	
	Matrix (S6)		Red Parent Material (F21) (MLRA 12			ology must be problemat	
	Layer (if observed):		Red Farent Material (F21) (MLRA 12	.7, 147)	uniess distuit	bed of problemat	ic.
	Layer (II Observeu).						
			<del>_</del>				
Type:				Hydrid	Soil Present?	Yes	No
Depth (in	ches):		<u> </u>	Tiyunk			
Depth (in	ches):		<del>_</del>	Tiyana			
Depth (inc			<del></del>	Tiyun			
Depth (inc			<del>-</del>	Tiyunk			
Depth (inc			_	riyunk			
Depth (inc			_	Tyunk			
Depth (inc			_	Tryunk			
Depth (increments)			_	- Tryunk			
Depth (inc			_	- Tryunk			
Depth (increments)			_	- Tryunk			
Depth (increments)			_	- Tryunk			
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				, riyani			
Depth (inc				, riyani			
Depth (inc				Tryunk			
Depth (inc				, riyunk			



Photo 1 Upland data point wnoc001\_u1 facing north



Photo 2
Upland data point wnoc001\_u1 facing east