20		Dominant		Dominance Test worksheet:	
Tree Stratum (Plot size:)		Species?		Number of Dominant Species	
1. Liriodendron tulipifera	45	Yes	FACU	That Are OBL, FACW, or FAC:3	(A)
2. Pinus taeda	10	No	FAC	Total Number of Dominant	
3. Liquidambar styraciflua	10	<u>No</u>	FAC	Species Across All Strata: 6	(B)
4. Acer rubrum	10	No	FAC	Percent of Dominant Species	
5. Fagus grandifolia	5	No	FACU	That Are OBL, FACW, or FAC: 50	(A/B)
6					()
7				Prevalence Index worksheet:	
8				Total % Cover of: Multiply by:	_
	80	= Total Cov	/er	OBL species x 1 = 0	_
50% of total cover: 40	20% of	total cover	. 16	FACW species x 2 =	_
Sapling/Shrub Stratum (Plot size: 15)			·	FAC species x 3 = 210	_
1. Ilex opaca	15	Yes	FAC	FACU species54	_
2. Carpinus caroliniana	12	Yes	FAC	UPL species 20	_
3. Acer rubrum	5	No	FAC	Column Totals:144 (A)526	(B)
4 Nyssa sylvatica	3	No	FAC		_ ` ,
"				Prevalence Index = B/A = 3.65	_
5				Hydrophytic Vegetation Indicators:	
6				1 - Rapid Test for Hydrophytic Vegetation	
7				2 - Dominance Test is >50%	
8				3 - Prevalence Index is ≤3.0 ¹	
		= Total Cov	/er	Problematic Hydrophytic Vegetation ¹ (Explain	1)
50% of total cover: 17.5	20% of	total cover	: <u>7</u>		,
Herb Stratum (Plot size: 5				¹ Indicators of hydric soil and wetland hydrology m	niet
1. Dennstaedtia punctilobula	20	Yes	UPL	be present, unless disturbed or problematic.	iuot
2. Mitchella repens	2	No	FACU	Definitions of Four Vegetation Strata:	
3.				_	
4.				Tree – Woody plants, excluding vines, 3 in. (7.6 c more in diameter at breast height (DBH), regardle	
				height.	555 UI
5					
6				Sapling/Shrub – Woody plants, excluding vines, than 3 in. DBH and greater than 3.28 ft (1 m) tall.	
7.				than 5 in. DBH and greater than 5.25 it (1 iii) tail.	
8				Herb – All herbaceous (non-woody) plants, regar	dless
9				of size, and woody plants less than 3.28 ft tall.	
10				Woody vine – All woody vines greater than 3.28	ft in
11				height.	
12					
	22	= Total Cov			
50% of total cover:11	20% of	total cover	4.4		
Woody Vine Stratum (Plot size:)					
1. Bignonia capreolata	5	Yes	FAC		
2. Parthenocissus quinquefolia	2	Yes	FACU		
3					
4.					
5.				Hydrophytic	
	7	= Total Cov	/er	Hydrophytic Vegetation	
50% of total cover: 3.5		total cover	4.4	Present? Yes No	
		total cover	·		
Remarks: (If observed, list morphological adaptations below	W).				

SOIL Sampling Point: wsua071_u

Profile Des	cription: (Describe t	o the depth	needed to docur	ment the	indicator	or confirm	the absence of in-	dicators.)	
Depth	Matrix	%	Color (moist)	x Feature	1	Loc ²	Toyture	Damasil	•
(inches) 0-5	Color (moist) 10YR 4/3	100	Color (moist)	%	Type'	LOC	Texture SL	Remark	<u>s</u>
5-9	10YR 5/4	100					SL		
9-20	10YR 6/3	100					SL		
	oncentration, D=Depl					ains.		Pore Lining, M=Ma	
-	Indicators: (Applica	able to all LR						roblematic Hydri	ic Soils³:
Histosol			Polyvalue Be						
	pipedon (A2) istic (A3)		Thin Dark Su Loamy Muck					(A10) (LRR S) ertic (F18) (outsid	e MLRA 150A,B)
	en Sulfide (A4)		Loamy Gleye	-		-,	Piedmont FI	oodplain Soils (F1	9) (LRR P, S, T)
	d Layers (A5)		Depleted Ma		>			Bright Loamy Soil	s (F20)
_	Bodies (A6) (LRR P, ucky Mineral (A7) (LR		Redox Dark Depleted Da	•	,		(MLRA 15	Material (TF2)	
	resence (A8) (LRR U)		Redox Depre					w Dark Surface (T	F12)
1 cm Mi	uck (A9) (LRR P, T)		Marl (F10) (L	RR U)				ain in Remarks)	,
	d Below Dark Surface	e (A11)	Depleted Oc	, ,	-	•	T) 31di.a.ta	af budua ubudia ua	
	ark Surface (A12) rairie Redox (A16) (N	ILRA 150A)	Iron-Mangan Umbric Surfa					of hydrophytic ve nydrology must be	-
	Mucky Mineral (S1) (L		Delta Ochric			, -,		sturbed or probler	
	Gleyed Matrix (S4)		Reduced Ve						
· ·	Redox (S5) d Matrix (S6)		Piedmont Flo				9A) A 149A, 153C, 153I	D)	
	irface (S7) (LRR P, S	, T, U)	Anomalous L	ongni Loa	illy Solis (1 20) (WILK)	4 149A, 1330, 1331	5)	
Restrictive	Layer (if observed):								
Type: no	ne		<u> </u>						_
Depth (in	ches):						Hydric Soil Pres	ent? Yes	No
Remarks:									



Photo 1 Upland data point wsua071_u facing southeast



Photo 2 Upland data point wsua071_u facing southwest

Project/Site: ACP	City/County: 51	nffolk	Sampling Dat	te: 3/29/16
	Only/obtainly:	State: V F	A Sampling Poi	nt. Wsua 071-0
Applicant/Owner: Dominion Investigator(s): 5. Bryan, L. Roper		State	- Camping ro	
Investigator(s): 5. Bryan, Linoper	Section, Township	, Range:		7 - 3
Landform (hillslope, terrace, etc.): drainage	Local relief (conca	ve, convex, none):	sticave s	Slope (%):
Subregion (LRR or MLRA): LRRT Lat: 3	36.64735	Long:76.8	5916	Datum: W 5389
Soil Map Unit Name: Goldsboro loamy fine	e sand	NWI cli	assification:	NA
Are climatic / hydrologic conditions on the site typical for this time	/			
Are Vegetation, Soil, or Hydrology signific	antly disturbed?	Are "Normal Circumstan	res" present? Yes	✓ No
Are Vegetation, Soil, or Hydrology natural		(If needed, explain any a		
SUMMARY OF FINDINGS – Attach site map show				
	/			
	Is the Sam	pled Area		
	within a W	etland? Yes	No	
,				
Remarks:				
HYDROLOGY				
Wetland Hydrology Indicators:		Secondary	Indicators (minimum	n of two required)
Primary Indicators (minimum of one is required; check all that ap	ply)		e Soil Cracks (B6)	
Surface Water (A1) Aquatic Fauna	(B13)	Sparse	ely Vegetated Conca	ve Surface (B8)
High Water Table (A2) Marl Deposits	(B15) (LRR U)	Draina	ge Patterns (B10)	
Saturation (A3) Hydrogen Sulf	ide Odor (C1)	Moss 7	Trim Lines (B16)	
	ospheres along Living F	Roots (C3) Dry-Se	eason Water Table (0	C2)
	educed Iron (C4)		sh Burrows (C8)	
1	eduction in Tilled Soils	(C6) Satura	tion Visible on Aeria	I Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Su	face (C7)	Geomo	orphic Position (D2)	
Iron Deposits (B5) Other (Explain	in Remarks)	Shallor	w Aquitard (D3)	
Inundation Visible on Aerial Imagery (B7)			leutral Test (D5)	
Water-Stained Leaves (B9)		Sphag	num moss (D8) (LR	R T, U)
Field Observations:				
Surface Water Present? Yes No Depth (in	ches): NA			
Water Table Present? Yes No Depth (in	ches): > 20			. /
Saturation Present? Yes No Depth (in		Wetland Hydrology P	resent? Yes	No
(includes capillary fringe)				
Describe Recorded Data (stream gauge, monitoring well, aerial	photos, previous inspec	tions), if available:		
Remarks:				
3				
,				

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

2261 2261		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30ft x 30ft)	_	Species?		Number of Dominant Species
1. Liriodendron tulipifera	LB	<u> </u>	FACU	That Are OBL, FACW, or FAC: (A)
2. Acer rubrum	10	<u> </u>	FAC	Total Number of Dominant
3				Species Across All Strata: (B)
4				Percent of Dominant Species
5.				That Are OBL, FACW, or FAC: (A/B)
6.				
7				Prevalence Index worksheet:
В				Total % Cover of: Multiply by:
0.	20	= Total Cov	er	OBL species x 1 =
50% of total cover: IC	20% of	total cover	4	FACW species x 2 = 1 O
Sapling/Shrub Stratum (Plot size: 30ft x 30ft)	20 /8 0/	total cover.		FAC species x 3 = 3 O
1. Persea borbonia	1	V	FACW	FACU species 30 x4 = 120
				UPL species x 5 =
2				Column Totals: 45 (A) 160 (B)
3				
4				Prevalence Index = B/A = 3.56
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7.				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 ¹
		= Total Cov	er	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 2 · 5	20% of	total cover:		
Herb Stratum (Plot size: 30ft x 30ft)				¹ Indicators of hydric soil and wetland hydrology must
1. Mone				be present, unless disturbed or problematic.
2.				Definitions of Four Vegetation Strata:
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
4				height.
5				
6				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7				than 3 in. DBH and greater than 3.26 it (1 in) tail.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine - All woody vines greater than 3.28 ft in
11				height.
12.	3)			
	0	= Total Cov	er	
50% of total cover:		total cover		
Woody Vine Stratum (Plot size: 30ft x 30ft)		10101 00101		
	20	Y	FACU	
1. Lonicera japonica	20		F 1100	
2				
3				
4				
5				Hydrophytic
	20	= Total Cov	er	Vegetation
50% of total cover:	20% 0	f total cover	<u> </u>	Present? Yes No/_
Remarks: (If observed, list morphological adaptations belo				
(Constitution (Constitution)				
*				
7 7 1 . 7				

		WS	ua	U	/1-	·w	,
ampling	Point:						

			h needed to docu		idiodio.			·
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Features	Type ¹	Loc²	Texture	Remarks
(inches) 0-3	2.5 1 4/3	100	Color (moist)		Type		CL	Nomano
	1							
3-14		100					CL_	
14-20	2.5 / 3/3	60	2.545/4	40		M	CL_	
	,			•				
	oncentration, D=Dep					ains.		=Pore Lining, M=Matrix. r Problematic Hydric Soils ³ :
	Indicators: (Applica	able to all I						
Histosol			Polyvalue Be					k (A9) (LRR O) k (A10) (LRR S)
	pipedon (A2) istic (A3)		Thin Dark St					Vertic (F18) (outside MLRA 150A,E
	en Sulfide (A4)		Loamy Gley			0,		Floodplain Soils (F19) (LRR P, S, T
	d Layers (A5)		Depleted Ma		-/			us Bright Loamy Soils (F20)
	Bodies (A6) (LRR P.	T, U)	Redox Dark	Surface (F	6)		(MLRA	
	ucky Mineral (A7) (LF		Depleted Da				Red Pare	nt Material (TF2)
	resence (A8) (LRR U)	Redox Depr		3)			llow Dark Surface (TF12) plain in Remarks)
	uck (A9) (LRR P, T)	- (044)	Marl (F10) (I		MIDA 1	54)	Other (Ex	piair iri Remarks)
	d Below Dark Surface ark Surface (A12)	e (ATT)	Iron-Mangar				T) ³ Indicate	ors of hydrophytic vegetation and
	Prairie Redox (A16) (N	ILRA 150A						d hydrology must be present,
	Mucky Mineral (S1) (L		Delta Ochric				unless	disturbed or problematic.
	Gleyed Matrix (S4)		Reduced Ve					
	Redox (S5)		Piedmont FI					ran)
The state of the s	d Matrix (S6)		Anomalous	Bright Loar	ny Soils (i	-20) (MLR.	A 149A, 153C, 1	530)
	urface (S7) (LRR P, S Layer (if observed):						4.	
IVESTILLTIAG								
Type	Layer (ii observed).							
Type:							Hydric Soil Pr	esent? Yes No X
Depth (in	ches):						Hydric Soil Pr	esent? Yes No_X
							Hydric Soil Pr	esent? YesNo_X
Depth (in							Hydric Soil Pr	esent? Yes No_X
Depth (in			_	-			Hydric Soil Pr	esent? Yes No_X
Depth (in							Hydric Soil Pr	esent? Yes No _X
Depth (in							Hydric Soil Pr	esent? Yes No _X
Depth (in							Hydric Soil Pr	esent? Yes No _X
Depth (in							Hydric Soil Pr	esent? Yes No X
Depth (in							Hydric Soil Pr	esent? Yes No X
Depth (in							Hydric Soil Pr	esent? Yes No X
Depth (in							Hydric Soil Pr	esent? Yes No _X
Depth (in							Hydric Soil Pr	esent? Yes No _X
Depth (in							Hydric Soil Pr	esent? Yes No X
Depth (in							Hydric Soil Pr	esent? Yes No X
Depth (in							Hydric Soil Pr	esent? Yes No X
Depth (in							Hydric Soil Pr	esent? Yes No _X
Depth (in							Hydric Soil Pr	esent? Yes No _X
Depth (in							Hydric Soil Pr	esent? Yes No X
Depth (in							Hydric Soil Pr	esent? Yes No X
Depth (in							Hydric Soil Pr	esent? Yes No X
Depth (in							Hydric Soil Pr	esent? Yes No _X
Depth (in							Hydric Soil Pr	esent? Yes No _X
Depth (in							Hydric Soil Pr	esent? Yes No _X
Depth (in							Hydric Soil Pr	esent? Yes No X



Upland data point wsua071_u2 facing east.



Upland data point wsua071_u2 facing south.

Project/Site: ACP	City/County: Suffork Sampling Date: 3/29/16
Applicant/Owner: Dominion	State: V A Sampling Point: wscas 0374_
Investigator(s): 5, Bryan, L. Roper	
Landform (hillstone terrace etc.): druinoue	Local relief (concave, convex, none); CONCAVE Slope (%): 0-3
Subregion (LRR or MLRA): LRRT Lat: 3	36.64945 Long: -76.85946 Datum: W 6585
Soil Map Unit Name: Nansemond loamy f	rive sand NWI classification: PFD
Are climatic / hydrologic conditions on the site typical for this time	
그들은 아무슨 사용을 하게 하면 하는 것이 되었다면 그가 되었다. 그 아무리는 사람들은 사람들이 가지 않는데 없다면 없다.	
Are Vegetation, Soil, or Hydrology signific	
Are Vegetation, Soil, or Hydrology natura	lly problematic? (If needed, explain any answers in Remarks.) wing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No	Is the Sampled Area
Wetland Hydrology Present?	within a Wetland? Yes No
Remarks:	
HYDROLOGY Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
[
Primary Indicators (minimum of one is required; check all that an Surface Water (A1)	
	s (B15) (LRR U) Drainage Patterns (B10)
	lfide Odor (C1) Moss Trim Lines (B16)
	cospheres along Living Roots (C3) Dry-Season Water Table (C2)
	Reduced Iron (C4) Crayfish Burrows (C8)
1. 	Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Inface (C7) Geomorphic Position (D2)
	n in Remarks) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No Depth (in	
Water Table Present? Yes No Depth (in	
Saturation Present? Yes V No Depth (in (includes capillary fringe)	nches): Surface Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial	photos, previous inspections), if available:
Remarks:	
portions of wetland inv	ndated

0.0.000	Absolute	Dominar	nt Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30ft x30ft)		Species	? Status	Number of Dominant Species
1. Ilex opaca	15	_ Y	FAC	That Are OBL, FACW, or FAC: (A)
2. Taxodium distichum	10	Υ	OBL	Total Number of Dominant
3. Carpinus caroliniana	10	Y	FAC	Species Across All Strata: (B)
4. Liquidambar styraciflua	10	4	FAC	
5.				Percent of Dominant Species That Are OBL, FACW, or FAC: B / (A/B)
6.				That Are OBE, FACTY, OF FAC.
7.				Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
0	45	= Total Co		OBL species x 1 =
50% of total cover: 2				FACW species x 2 =
	20% 01	total cove	er:	FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 30f4 x 30f4)	74		-00	FACU species x 4 =
1. Carpinus caroliniana		1	THU	UPL species x 5 =
2				and the control of th
3				Column Totals: (A) (B)
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6.				
7.				Rapid Test for Hydrophytic Vegetation
				2 - Dominance Test is >50%
8	10			☐ 3 - Prevalence Index is ≤3.01
	10			Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of	total cove	er:	
Herb Stratum (Plot size: 30f4 x 30f4)				¹ Indicators of hydric soil and wetland hydrology must
1. none				be present, unless disturbed or problematic.
2				Definitions of Four Vegetation Strata:
3				
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of height.
5				
6				Sapling/Shrub - Woody plants, excluding vines, less
7		-		than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb - All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Wandarder Allumedusings greater than 2.29 ft in
11				Woody vine – All woody vines greater than 3.28 ft in height.
12.				The same of the sa
12.	- D	= Total Co		
	MARKS 30 - 30			
50% of total cover:	20% of	total cove	er:	
Woody Vine Stratum (Plot size: 30 ft x 30 ft)			-10-17	
1. Lonicera japonica	10	_ Y	FACU	
2. Vitis rotundifolia	10	<u> </u>	FAC	
3.				
4				
5.				
5	20	T-1-10		Hydrophytic Vegetation
100000000000000000000000000000000000000	1	= Total C	11	Present? Yes No
50% of total cover:	20% of	f total cove	er:	
Remarks: (If observed, list morphological adaptations be	elow).			
A CONTRACTOR OF THE PROPERTY O				

	WSWO	03	1+-W
Sampling Po	int:		10

Profile Desc	ription: (Describe	to the depti				or confir	n the absence of i	ndicators.)
Depth	Color (moist)	%	Color (moist)	x Feature:	Type ¹	Loc²	Texture	Remarks
(inches)	10 YR 4/3		Color (moist)		Туре	LUC	Texture	Kemarks
	10 111	100	7,540 5/10	10	-			
6-10	101/4/2	90	1010	10		-	Sil_	
10-20	10 YR5/2	80	7.5 YR5/6	20	0	M	SiCL_	
	-							
1	oncentration, D=Dep	- Intian DM-1	Dadward Matrix M	C-Maskas	Cand Ca	nine	21 postion: DI	=Pore Lining, M=Matrix.
	Indicators: (Application)					airis.		Problematic Hydric Soils ³ :
☐ Histosol	Contraction of the Contract of	abic to air c	Polyvalue B			RR S. T.		(A9) (LRR O)
	oipedon (A2)		Thin Dark S					k (A10) (LRR S)
	stic (A3)		Loamy Much					Vertic (F18) (outside MLRA 150A,B)
The second secon	en Sulfide (A4)		Loamy Gley		(F2)			Floodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)		Depleted Ma					s Bright Loamy Soils (F20)
	Bodies (A6) (LRR Fucky Mineral (A7) (L		Redox Dark Depleted Da				☐ (MLRA	nt Material (TF2)
	resence (A8) (LRR I		Redox Depr					low Dark Surface (TF12)
	ick (A9) (LRR P, T)	-,	Marl (F10) (-,			plain in Remarks)
	d Below Dark Surface	ce (A11)	Depleted Oc		(MLRA 1	51)		
	ark Surface (A12)		☐ Iron-Mangar					rs of hydrophytic vegetation and
	rairie Redox (A16) (Contract to the second			d hydrology must be present,
	Mucky Mineral (S1) (LRR O, S)	Delta Ochric					disturbed or problematic.
	Sleyed Matrix (S4) Redox (S5)		Reduced Ve					
	Matrix (S6)						RA 149A, 153C, 15	53D)
	rface (S7) (LRR P,	S, T, U)	-	-113.11				
	Layer (if observed							
Type:								
Depth (in	ches):						Hydric Soil Pro	esent? Yes No
Remarks:							10.	
0.00								
15								
								- 1
Contraction of the Contraction o					-			



Wetland data point wsuo037f_w facing south.



Wetland data point wsuo037f_w facing south.

Landform (hillslope, terrace, etc.):d Subregion (LRR or MLRA):LRR	Roper Ser rainage Loc	State: VA Sampling Date: 312911 State: VA Sampling Point: W540037. ction, Township, Range: none cal relief (concave, convex, none): Concave Slope (%): 0-2 14939 Long: -76.85946 Datum: W65
Soil Map Unit Name: Nansemo	and loamy time s	and NWI classification: NA
Are climatic / hydrologic conditions on the	ne site typical for this time of year?	Yes No (If no, explain in Remarks.)
Are Vegetation, Soil, or	Hydrology significantly dist	turbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or	Hydrology naturally proble	
SUMMARY OF FINDINGS - A	ttach site map showing sa	ampling point locations, transects, important features, et
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks:	Yes No/ Yes No/ Yes No/	Is the Sampled Area within a Wetland? Yes No
HYDROLOGY Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required
Primary Indicators (minimum of one is Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Image Water-Stained Leaves (B9)	Aquatic Fauna (B13) Marl Deposits (B15) (L Hydrogen Sulfide Odol Oxidized Rhizospheres Presence of Reduced Recent Iron Reduction Thin Muck Surface (C7	r (C1)
Surface Water Present? Yes Water Table Present? Yes	No Depth (inches): No Depth (inches): No Depth (inches): Depth (inches):	>20 Wetland Hydrology Present? Yes No
Remarks:		

Tree Stratum (Plot size: 30ft x 30ft) 1. Pinus tacda		Species	nt Indicator Status FAC	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC:3 (A)
2. Liriodendron tulipitera 3.	10	<u>y</u>		Total Number of Dominant Species Across All Strata: (B)
4 5				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet: Total % Cover of: Multiply by:
8	25	= Total Co		OBL species x 1 = FACW species x 2 =
50% of total cover: 17. Sapling/Shrub Stratum (Plot size: 30ft x 30ft) 1. Carpinus carpliniana				FAC species 35 x3 = 105 FACU species 30 x4 = 120
2. Liriodendron tulipitera 3.	10	У	FACU	UPL species $\times 5 = $ Column Totals: 65 (A) 225 (B)
4				Prevalence Index = B/A = 3,46
6				Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%
50% of total cover:10	20	= Total Co		3 - Prevalence Index is ≤3.0¹ ☐ Problematic Hydrophytic Vegetation¹ (Explain)
Herb Stratum (Plot size: 30ff x 30ff) 1. MDNC				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2				Definitions of Four Vegetation Strata:
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
6				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in height.
12		= Total Co	7171	
Woody Vine Stratum (Plot size: 30ft x 30ft)		of total cove		
1. Vitis rotundifolia 2. Lonium japonica	10	Y	FACU	
3 4				
5	20	= Total Co	nver	Hydrophytic Vegetation
50% of total cover:	20%	of total cove	1.5	Present? Yes No
Remarks: (If observed, list morphological adaptations belo	ow).			



Upland data point wsuo037_u facing south.



Upland data point wsuo037_u facing west.

	County: Suffork Sampling Date: 3/29116
Applicant/Owner: Dominion	State: VA Sampling Point: WSUD D3 8 £
Investigator(s): 5. Bryan, L. Roper Sec	tion, Township, Range: <u>none</u>
	al relief (concave, convex, none): Concave Slope (%): 2-3/1
Subregion (LRR or MLRA): LRRT Lat: 36, 65	109 Long: -76, 85901 Datum: W6584
Soil Map Unit Name: Goldsboro fine sandy lo	am, 0-21, 5/0/04WI classification: PFO
Are climatic / hydrologic conditions on the site typical for this time of year?	
Are Vegetation, Soil, or Hydrology significantly distr	
Are Vegetation, Soil, or Hydrology naturally problem	
SUMMARY OF FINDINGS – Attach site map showing sa	mpling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes No No	Is the Sampled Area within a Wetland? Yes No
Beaver activity NCWAM: Rivering Swamp Forest	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15) (LI	RR U) Drainage Patterns (B10)
Saturation (A3) Hydrogen Sulfide Odor	
1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Reduced In	
Drift Deposits (B3) Recent Iron Reduction Algal Mat or Crust (B4) Thin Muck Surface (C7)	
Algal Mat or Crust (B4) Thin Muck Surface (C7) Iron Deposits (B5) Other (Explain in Rema	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	NA
Water Table Present? Yes No Depth (inches):	6
Saturation Present? Yes No Depth (inches): 5	VFull Wetland Hydrology Present? Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, p	revious inspections), if available:
Remarks:	4 - 1
portions of wetland inunda	ated
4	

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

- 0: 2 ()	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 30f+ x 30f+)		Species?		Number of Dominant Species	(4)
1. Taxodium distichum	25		OBL	That Are OBL, FACW, or FAC:	_ (A)
2. Aur robrom 3.	10		FAC	Total Number of Dominant Species Across All Strata:	_ (B)
4.					
5.				Percent of Dominant Species That Are OBL, FACW, or FAC:	_ (A/B)
6				Prevalence Index worksheet:	
7				Total % Cover of: Multiply by:	
8.	-	1201170		OBL species x 1 =	
	25	= Total Cov	rer _	FACW species x 2 =	
50% of total cover: 17.	5 20% of	total cover	_/_	FAC species x 3 =	
Sapling/Shrub Stratum (Plot size: 30ft x 30ft)	-			FACU species x 4 =	
1. Aur rubrum	5	_ Y	FAC	UPL species x5 =	
2. Ilex opala	5	1	FAC		
3.				Column Totals: (A)	(b)
4.				Prevalence Index = B/A =	
5.				Hydrophytic Vegetation Indicators:	
6.					
7.				2 - Dominance Test is >50%	
8.				3 - Prevalence Index is ≤3.01	
	.10	= Total Cov	er	Problematic Hydrophytic Vegetation¹ (Exp	lain)
50% of total cover: 5	20% of	total cover	2	Problematic Hydrophytic Vegetation (Exp	,
Herb Stratum (Plot size: 30++ x 30f+)		100000000000000000000000000000000000000		It dies to self builde self and wattend budsologi	muct
1. Chasmanthium laxum	5	4	FACW	¹ Indicators of hydric soil and wetland hydrologi be present, unless disturbed or problematic.	must
				Definitions of Four Vegetation Strata:	
2.				The state of the s	
3.		-		Tree - Woody plants, excluding vines, 3 in. (7.	6 cm) or
4				more in diameter at breast height (DBH), regar	dless of
5		- 110		height.	
6.				Sapling/Shrub - Woody plants, excluding vin	es, less
7.			100	than 3 in. DBH and greater than 3.28 ft (1 m) t	all.
8				Herb - All herbaceous (non-woody) plants, re-	gardless
9.				of size, and woody plants less than 3.28 ft tall.	
10.				Woody vine – All woody vines greater than 3.	28 ft in
11.	100000000000000000000000000000000000000			height.	
12.					
12.	5	= Total Cov	/er		
50% of total cover: 2.5					
Woody Vine Stratum (Plot size: 30f+ x 30f+)	20 /0 01	total cover			
1. none			-		
2.			1000		
3.			100		
4	- 10	-			
5.				Hydrophytic	
	0	= Total Co	ver	Vegetation Present? Yes No	
50% of total cover:	20% of	f total cover		Present? Yes No	
Remarks: (If observed, list morphological adaptations belo	ow).				
Tremand. (Il observed, list morphisiogistal adaptations see	,				
			1		

			h needed to docu			27.5.270.00	A STATE OF THE PARTY OF THE PAR	at also carried
Depth (inches)	Color (moist)	%	Color (moist)	ox Feature %	Type ¹	Loc²	Texture	Remarks
0-4	2.5 431	100					L	
4-9	2.54311	60	2.5441	40	0	M	1.5	
				25	-	-	10	
9-20	2.5/5/2	75	7 YR 4/6	_ 25		-1-1		
	-		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				-	
			in the latest to a				2, ,,	
	oncentration, D=Dep					ains.		PL=Pore Lining, M=Matrix. for Problematic Hydric Soils ³ :
	Indicators: (Applic	able to all				DD C T !!		
Histosol			Polyvalue B Thin Dark S				The second secon	Nuck (A9) (LRR O) Nuck (A10) (LRR S)
The second secon	pipedon (A2)		Loamy Muc					ed Vertic (F18) (outside MLRA 150A,B)
	istic (A3) en Sulfide (A4)		Loamy Gley			0,		ont Floodplain Soils (F19) (LRR P, S, T)
A STATE OF THE PARTY OF THE PAR	d Layers (A5)		Depleted M					alous Bright Loamy Soils (F20)
Annual State of the Land of th	Bodies (A6) (LRR P	, T, U)	Redox Dark		6)			RA 153B)
A 800 ID TO ARCHORNE	ucky Mineral (A7) (LI		Depleted Da	ark Surface	(F7)			arent Material (TF2)
The Control of the Co	resence (A8) (LRR L	J)	Redox Depr	No archest where a chapter 2 has	8)			hallow Dark Surface (TF12)
and the state of the Company of	uck (A9) (LRR P, T)		Marl (F10) (Other	(Explain in Remarks)
Lancing Co. Lancing Co. Co.	d Below Dark Surfac	e (A11)	Depleted O				T) 3India	ators of hydrophytic vegetation and
	ark Surface (A12)	MI DA 450A	Iron-Manga					land hydrology must be present,
CONTRACTOR STATES	rairie Redox (A16) (I Jucky Mineral (S1) (Umbric Surf Delta Ochric 			, 0,		ess disturbed or problematic.
The same with the same of	Gleyed Matrix (S4)	Little O, O,	Reduced Ve			OA. 150B)		
Vertical and the last of the l	Redox (S5)		Piedmont F					
	Matrix (S6)						A 149A, 153C	, 153D)
Dark Su	rface (S7) (LRR P, S	S, T, U)						
D 4-1-41								
Restrictive	Layer (if observed)	:		HIP CO.				
Type:	Layer (if observed)							
		*	_				Hydric Soil	Present? Yes No
Туре:		:					Hydric Soil	Present? Yes No
Type: Depth (in		!	=				Hydric Soil	Present? Yes No
Type: Depth (in		:					Hydric Soil	Present? Yes No
Type: Depth (in		:					Hydric Soil	Present? Yes No
Type: Depth (in		•					Hydric Soil	Present? Yes No
Type: Depth (in		•	=				Hydric Soil	Present? Yes No
Type: Depth (in		•					Hydric Soil	Present? Yes No
Type: Depth (in							Hydric Soil	Present? Yes No No
Type: Depth (in							Hydric Soil	Present? Yes No
Type: Depth (in							Hydric Soil	Present? Yes No
Type: Depth (in							Hydric Soil	Present? Yes No No
Type: Depth (in							Hydric Soil	Present? Yes No No
Type: Depth (in		•					Hydric Soil	Present? Yes No No
Type: Depth (in							Hydric Soil	Present? Yes No No
Type: Depth (in							Hydric Soil	Present? Yes No No
Type: Depth (in							Hydric Soil	Present? Yes No No
Type: Depth (in							Hydric Soil	Present? Yes No No
Type: Depth (in							Hydric Soil	Present? Yes No No
Type: Depth (in							Hydric Soil	Present? Yes No No
Type: Depth (in							Hydric Soil	Present? Yes No No
Type: Depth (in							Hydric Soil	Present? Yes No No
Type: Depth (in							Hydric Soil	Present? Yes No No
Type: Depth (in							Hydric Soil	Present? Yes No No
Type: Depth (in							Hydric Soil	Present? Yes No No



Wetland data point wsuo038f_w facing southwest.



Wetland data point wsuo038f_w facing west.

Project/Site: ACP		City	County: Suffo	או	Sampling D	ate: 3/29/16
		City	County. 3001 10	State: VA	Sampling Pr	oint: W540038_4
Applicant/Owner: Dominio						onit. Visionia
Investigator(s): 5. Bryan	L. FOPE	Sec Sec	ction, Township, Range:	none		7-3
Landform (hillslope, terrace, etc.):	rainay	eLoc	al relief (concave, conve	ex, none): COV	cave	Slope (%):
Subregion (LRR or MLRA):	47 0	Lat: 30.65	5113 Long	-16.85	878	Datum: W658
Soil Map Unit Name: Goldsbor	to low	my fine	sand	NWI classi	fication:	NA
Are climatic / hydrologic conditions on	the site typical	for this time of year?	Yes No	_ (If no, explain in	Remarks.)	
Are Vegetation, Soil, o				nal Circumstances		s No
Are Vegetation, Soil, o				d, explain any ansv		
SUMMARY OF FINDINGS - A				tions, transec	ts, importar	nt features, etc.
Hydrophytic Vegetation Present?	Yes	No_/				/
Hydric Soil Present?	Yes		Is the Sampled Are	a Yes	No V	
Wetland Hydrology Present?		No V	within a Wetland?	res	NO_ <u>_</u>	
HYDROLOGY					7 1 1 1 2 2	- Thus socialed
Wetland Hydrology Indicators:				34/4		m of two required)
Primary Indicators (minimum of one i				Surface S		Burface (DB)
Surface Water (A1)		quatic Fauna (B13)	22.00			cave Surface (B8)
High Water Table (A2)		arl Deposits (B15) (L		The second second second second	Patterns (B10)	
Saturation (A3)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ydrogen Sulfide Odor	s along Living Roots (C3)		Lines (B16) in Water Table	(C2)
Water Marks (B1) Sediment Deposits (B2)	10 march 10 miles	resence of Reduced I			urrows (C8)	(02)
Drift Deposits (B3)		ecent Iron Reduction		The second second second		al Imagery (C9)
Algal Mat or Crust (B4)		nin Muck Surface (C7			ic Position (D2	
Iron Deposits (B5)		ther (Explain in Rema		Shallow A	quitard (D3)	
Inundation Visible on Aerial Imag				FAC-Neut	ral Test (D5)	
Water-Stained Leaves (B9)				Sphagnun	moss (D8) (LF	RR T, U)
Field Observations:		,	NA	-		
Surface Water Present? Yes	No	Depth (inches):				
	No	Depth (inches):	>20	vertice of the second	- 115 VIII	
Saturation Present? Yes (includes capillary fringe)	No/	_ Depth (inches):	> 20 Wetlan	d Hydrology Pres	ent? Yes	No_V
Describe Recorded Data (stream gar	uge, monitoring	well, aerial photos, p	previous inspections), if a	available:		
Bowerler:			1-11			
Remarks:						
40						
		E				

-20 -502 5	W540038-4
Sampling	Point:
eet:	
15.00	

C1 2-C1	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30f4 x 30f4)		Species?	-	Number of Dominant Species
1. Liriodendron tulipitera	20		FACU	That Are OBL, FACW, or FAC: (A)
2. Fagus grandifolia	10		FACU	Total Number of Dominant
3. Liquidam har styruciflya	10	Y	FAC	Species Across All Strata:(B)
1				
				Percent of Dominant Species That Are OBL, FACW, or FAC: 431/ (A/B)
5				That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7	_		_	Total % Cover of: Multiply by:
8	1 1			OBL species x 1 =
	40	= Total Co	/er	Total Action of the State of the Control of the Con
50% of total cover: 20	20% of	total cover	: 8	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30ff x 30ff)				FAC species $\frac{20}{x^3} \times 3 = \frac{100}{100}$
1. Ilex opala	5	Y	FAC	FACU species 45 x4= 180
2. Fugus grandifolia	6	y	FACU	UPL species x 5 =
		-	FAC	Column Totals:(A)
3. Carpinus caroliniana		-1	PHL	
4				Prevalence Index = B/A = 3,69
5.				Hydrophytic Vegetation Indicators:
6.				1 - Rapid Test for Hydrophytic Vegetation
7.				2 - Dominance Test is >50%
8.				
0,	15	= Total Cov	· · ·	3 - Prevalence Index is ≤3.0'
50% of total cover: 715	2 2001	- Total Co	3	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover:	20% 01	total cover		
Herb Stratum (Plot size: 30ft x 30ft) 1. Polystichum acrostichoides	10	Y	FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
		-		Definitions of Four Vegetation Strata:
2.				
3				Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5.	100		-	height.
6.				Sapling/Shrub - Woody plants, excluding vines, less
7.				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8.				Herb – All herbaceous (non-woody) plants, regardless
				of size, and woody plants less than 3.28 ft tall.
9				
10			_	Woody vine - All woody vines greater than 3.28 ft in
11.		-		height.
12.				
	10	= Total Co	/er	
50% of total cover: 5		total cover		
Woody Vine Stratum (Plot size: 30ff x 30ff)				
1. NONE				
	-			
2.	-			
3.				
4.		diam'r.		
5.	January Land			Hydrophytic
		= Total Co	/er	Vegetation
50% of total cover:				Present? Yes No _X
		total cover	-	
Remarks: (If observed, list morphological adaptations below	ow).			
*				

Depth	cription: (Describe Matrix			x Feature				
inches)	Color (moist)	%	Color (moist)	%	Type'	Loc2	<u>Texture</u>	Remarks
0-5	2.5 / 2.6/1	100					SL	
5-8	2.57 4/3	100					SL	
8-20	2.54 6/4	100					LS	
	Concentration, D=Dep					ains.		Pore Lining, M=Matrix.
Histoso Histic E Black H Hydrog Stratifie Organic 5 cm M Muck P 1 cm M Deplete Thick D Coast F Sandy Sandy Strippe	Indicators: (Applications) I (A1) Ipipedon (A2) Idistic (A3) Idistic (A3) Idistic (A5) Idistic (A5) Idistic (A6) Idistic (A6) Idistic (A6) Idistic (A7) Idistic (A8) Idistic (A8) Idistic (A8) Idistic (A8) Idistic (A8) Idistic (A8) Idistic (A12) Idistic (A12) Idistic (A12) Idistic (A13) Idistic (A16) Idistic (A16) Idistic (A16) Idistic (A17) Idistic (A18) Idiatic (A18)	P, T, U) RR P, T, U) I) Re (A11) MLRA 150A) LRR O, S)	Polyvalue Bo Thin Dark So Loamy Muck Loamy Gleyo Depleted Ma Redox Dark Depleted Da Redox Depro Marl (F10) (I Depleted Oco Iron-Mangar Umbric Surfo Delta Ochric Reduced Ve	elow Surfa urface (S9) xy Mineral ed Matrix (F3) Surface (Fark Surface essions (FLRR U) thric (F11) nese Mass ace (F13) (E17) (ML rtic (F18) (poodplain S	ce (S8) (L) (LRR S, (F1) (LRR F2) (6) ((F7) 8) (MLRA 15 es (F12) ((LRR P, T LRA 151) (MLRA 15 oils (F19)	T, U) O) S1) LRR O, P, U) OA, 150B) (MLRA 14) 1 cm Muck 2 cm Muck Reduced Ve Piedmont FI Anomalous (MLRA 15 Red Parent Very Shallor Other (Expl.) T) 1 cm Muck Reduced Very Fiedmont FI Very Shallor Other (Expl.)	(A10) (LRR S) ertic (F18) (outside MLRA 150A,B codplain Soils (F19) (LRR P, S, T) Bright Loamy Soils (F20) 63B) Material (TF2) W Dark Surface (TF12) ain in Remarks) of hydrophytic vegetation and hydrology must be present, isturbed or problematic.
	Layer (if observed)					A COMPANY		
	nches):						Hydric Soil Pres	ent? Yes No/



Upland data point wsuo038_u facing east.



Upland data point wsuo038_u facing north.

Project/Site: ACP	City/County:	Suffalk		Sampling Date: 10/7/15
Applicant/Owner: Deminion				Sampling Point: WSuoOlbf
Investigator(s): J. Benton				
Landform (hillslope, terrace, etc.): headwater				
Subregion (LRR or MLRA): LRR T Lat: 36	2 5%	Long:	70.83	251 Datum: <u>WU3-8</u>
Soil Map Unit Name: Goldsboro fine sandy loan	1			
Are climatic / hydrologic conditions on the site typical for this time of y	year? Yes X			
Are Vegetation, Soil, or Hydrology significantly	ly disturbed?	Are "Normal	Circumstances"	present? Yes X No
Are Vegetation, Soil, or Hydrology naturally pr	roblematic?	(If needed, e	xplain any answ	vers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showin	g sampling po	oint locatio	ns, transect	s, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes No Yes No	within a V	mpled Area Wetland?	Yes	< No
Remarks: Headwater wetland				
HYDROLOGY				And the second s
Wetland Hydrology Indicators:			Secondary Indi	cators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		Surface So	il Cracks (B6)
Surface Water (A1) Aquatic Fauna (B	13)		Sparsely V	egetated Concave Surface (B8)
∠ High Water Table (A2)				Patterns (B10)
∑ Saturation (A3) Hydrogen Sulfide				Lines (B16)
	heres along Living	Roots (C3)		n Water Table (C2)
Sediment Deposits (B2) Presence of Redu		(00)		urrows (C8)
	iction in Tilled Soils	s (C6)	The second secon	Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surfac				ic Position (D2)
Iron Deposits (B5) Other (Explain in Inundation Visible on Aerial Imagery (B7)	Remarks)			guitard (D3) al Test (D5)
Inundation visible on Aerial imagery (67) Water-Stained Leaves (B9)				moss (D8) (LRR T, U)
Field Observations:		T	Opilagilani	111000 (20) (21111 1) 2)
Surface Water Present? Yes No _X_ Depth (inche	s): N/A			
Water Table Present? Yes X No Depth (inche				
Saturation Present? Yes X No Depth (inche	s): Surface	Wetland H	lydrology Pres	ent? Yes X No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial pho	toe provious inch	octions) if avai	ilable:	
Describe Recorded Data (stream gauge, monitoring well, aerial prio	itos, previous irispe	ctions), ii ava	liabie.	
Remarks:				
remarks.				
				*

22.42	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 × 30		Species?		Number of Dominant Species
1. ALER rubrum	30	1	FAC	That Are OBL, FACW, or FAC: (A)
2. Liquidambar Styraciflun	20	4	FAC	Total Number of Dominant
3. Liriodendron tulipifera	15	4	FACV	Species Across All Strata: (B)
4				Book of Book and Booking
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 83 (A/B)
6				
7.				Prevalence Index worksheet:
8.				Total % Cover of:Multiply by:
	65	= Total Cov	er	OBL species x 1 =
50% of total cover: 32.5				FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 3 0 X 30)		total cover.		FAC species x 3 =
1. Ligustrum sinense	15	V	EAC	FACU species x 4 =
)		-	1110	UPL species x 5 =
2				Column Totals: (A) (B)
3				1
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				X 2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.01
		= Total Cov	7,043	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 7.5	20% of	total cover:	_3_	
Herb Stratum (Plot size: 30 X 30)				¹ Indicators of hydric soil and wetland hydrology must
1. Microstegiun vimineum	70	1	FAC	be present, unless disturbed or problematic.
2. Arundinaria ginantea	10	N	FACW	Definitions of Four Vegetation Strata:
3. Boehmeria cylindrica	5	N	FACW	To a Miles de colonia e controlina e cina 2 in (7.6 cm) es
4.				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5				height.
6				Continue (Shouth Meanth and Audion visual lane
				Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7				
8				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
9				of size, and woody plants less than 3.20 it tail.
10				Woody vine - All woody vines greater than 3.28 ft in
11				height.
12	0.5			
112.4	85	= Total Cov	er	
50% of total cover: 42.5	20% of	total cover:	1+	
Woody Vine Stratum (Plot size: 30 X 30)				
1. vitis rotundifolia	5	4	FAC	
2				
3.		10-1-11-14-23		
4.	C			
5.				Hudsonbutle
	5	= Total Cov	er	Hydrophytic Vegetation
50% of total cover: 2.5		total cover:	1	Present? Yes No
		total cover.	<u> </u>	
Remarks: (If observed, list morphological adaptations belo	W).			

	cription: (Describe	to the deb					i tile absence on i	
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Features %	Type	Loc²	Texture	Remarks
0-6	7 4,		Coo (most)		Type		5L	Komarks
	-	100	7 - 05/0					
6-20	2.54 3/1	90	7.5 yR 5/8	10		M	SL	
	1							
-								
	-							
¹ Type: C=C	concentration, D=Dep	letion, RM=	Reduced Matrix, M	S=Masked	Sand Gr	ains.	² Location: PL:	=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applic	able to all	LRRs, unless othe	rwise note	ed.)		Indicators for	Problematic Hydric Soils ³ :
Histoso	I (A1)		Polyvalue Be	elow Surfac	ce (S8) (L	RR S, T, U) 1 cm Muck	(A9) (LRR O)
	pipedon (A2)		Thin Dark St					(A10) (LRR S)
	listic (A3)		Loamy Muck					/ertic (F18) (outside MLRA 150A,B)
_	en Sulfide (A4)		Loamy Gley					Floodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)		Depleted Ma	,	,			s Bright Loamy Soils (F20)
_	Bodies (A6) (LRR P	, T, U)	Redox Dark		6)		(MLRA 1	
_	ucky Mineral (A7) (LI			•				nt Material (TF2)
	resence (A8) (LRR L		Redox Depre				_	ow Dark Surface (TF12)
	uck (A9) (LRR P, T)	•	Marl (F10) (I		*			plain in Remarks)
	d Below Dark Surfac	e (A11)	Depleted Oc		(MLRA 1	51)		
	ark Surface (A12)	- (,	Iron-Mangan				T) ³ Indicator	rs of hydrophytic vegetation and
	Prairie Redox (A16) (I	MLRA 150A						hydrology must be present,
	Mucky Mineral (S1) (Delta Ochric			, -,		disturbed or problematic.
	Gleyed Matrix (S4)		Reduced Ve			OA. 150B)		**************************************
	Redox (S5)		Piedmont Flo					
	Matrix (S6)						A 149A, 153C, 15	3D)
	rface (S7) (LRR P, S	S. T. U)				, ,		
	Layer (if observed):							
-							1	
Type:	-1						Under Call Day	sent? Yes X No
	ches):						Hydric Soil Pre	sent? Yes No
Remarks:								



Wetland data point wsuo016f_w facing north.



Wetland data point wsuo016f_w facing southeast.

Project/Site: ACP City/C	county: Suffolk Sampling Date: 10/7/15
Applicant/Owner: Dominion	State: VA Sampling Point: WS40 016-
Investigator(s): J. Bonton Section	
Landform (hillslope, terrace, etc.): hillslope Local	
Subregion (LRR or MLRA): LRRT Lat: 36.65	
Soil Map Unit Name: Goldsboro fine Sandy loam, 2-	-5% Slopes NWI classification: N/A
Are climatic / hydrologic conditions on the site typical for this time of year? Ye	es No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturb	bed? Are "Normal Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrology naturally problems	
SUMMARY OF FINDINGS - Attach site map showing same	ipling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	
Hydric Soil Present? Yes No	Is the Sampled Area
Wetland Hydrology Present? Yes No	within a Wetland? Yes NoX
Remarks:	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15) (LRF	
Saturation (A3) Hydrogen Sulfide Odor (C	
Water Marks (B1) Oxidized Rhizospheres al	
Sediment Deposits (B2) Presence of Reduced Iron	
Drift Deposits (B3) Recent Iron Reduction in	
Algal Mat or Crust (B4) Thin Muck Surface (C7)	Geomorphic Position (D2)
Iron Deposits (B5) Other (Explain in Remark	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No _X Depth (inches):/	N/A
Water Table Present? Yes No _X Depth (inches):	720
Saturation Present? Yes No _X Depth (inches):	720 Wetland Hydrology Present? Yes No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:
Remarks:	
Trombine.	

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 x 30)		Species?		
1. Liriodendron tuliaifera	35		FACU	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
	20		UPL	That A e OBE, I ACW, O I AC (A)
2. Juglans nigra		-1-	FAC	Total Number of Dominant
3. Acer rubrum	15	4	FAC	Species Across All Strata: (B)
4	Age - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -			
5.				Percent of Dominant Species That Are OBL. FACW. or FAC: (A/B)
				That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
B				
	70	= Total Co	/er	OBL species x 1 =
50% of total cover: 35	20% of	total cover	- 14	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30 × 30)		total obvol		FAC species x 3 =
	10		FACU	FACU species x 4 =
1. Phytolacca americana		$\overline{}$		UPL species x 5 =
2. Juglans nigra	_5_	7	UPL	
3. Ligustrum Sinense	_ 5	4	FAC	Column Totals: (A) (B)
4.				Donator and Date of Britania
I 3				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				X 2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0¹
The state of the s	20	= Total Co	/er	
500/ -51-1-1 1-2				Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 10	20% of	total cover		
Herb Stratum (Plot size: 30 × 30)	1		TA -	¹ Indicators of hydric soil and wetland hydrology must
1. Microstegium vimineum	+0	7	FAC	be present, unless disturbed or problematic.
2. Arundinaria gigantea	10	N	FACW	Definitions of Four Vegetation Strata:
3.				
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of height.
5				Treight.
6				Sapling/Shrub - Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8.				Note: All body consultation was discussed as a second con-
				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
9				of size, and woody plants less than 5.20 it tail.
10.				Woody vine - All woody vines greater than 3.28 ft in
11				height.
12.				
	80	= Total Co	ver	
50% of total cover: 40		total cover		
50% of total cover. 10	20% 0	total cover		
Woody Vine Stratum (Plot size: 30 x 30)			T 1 -	
1. Vitis rotundifolia	10	7	FAC	
2. Campsis radicans	5	7	FAC	
3				
,				
4.				
5				Hydrophytic
	15	= Total Co	ver	Vegetation Present? Yes No
50% of total cover: 7.5	20% of	total cover	3	Present? Yes X No
Remarks: (If observed, list morphological adaptations belo				
Remarks. (If observed, list maphatogical adaptations better	, , ,			

Profile Desc	ription: (Describe	to the dept	h needed to docur	ment the I	ndicator	or confirm	the absence of ir	idicators.)			
Depth	Matrix			x Feature				-			
(inches)	Color (moist)		Color (moist)	%	Type	_Loc ²	Texture	Remar	K5		
0-14	2.575/4	100					<u>5L</u>				
14-20	2.544/2	95	7.548518	5		M	SL_				
			,								
								155.285-00-			
¹Type: C=C	oncentration, D=Dep	oletion, RM=	Reduced Matrix, M	S=Masked	Sand Gr	ains.	² Location: PL=	Pore Lining, M=N	Matrix.		
Hydric Soil	Indicators: (Applic	able to all I	RRs, unless othe	rwise not	ed.)		Indicators for	Problematic Hyd	ric Solls ³ :		
Histosol	(A1)		Polyvalue Be	low Surfa	ce (S8) (L	.RR S, T, U	J) 1 cm Muck	(A9) (LRR O)			
Histic Ep	pipedon (A2)		Thin Dark St	urface (S9)	(LRR S,	T, U)		(A10) (LRR S)			
	stic (A3)		Loamy Muck			l O)	Reduced Vertic (F18) (outside MLRA 150A,B)				
	en Sulfide (A4)		Loamy Gleye		F2)			Piedmont Floodplain Soils (F19) (LRR P, S, T)			
	d Layers (A5) Bodies (A6) (LRR F	T 11)	Depleted Ma Redox Dark		6)			Anomalous Bright Loamy Soils (F20) (MLRA 153B)			
	icky Mineral (A7) (L		Depleted Da					t Material (TF2)			
	esence (A8) (LRR L		Redox Depre					ow Dark Surface (TF12)		
	ick (A9) (LRR P, T)	,	Marl (F10) (L		-,		Other (Exp	lain in Remarks)	332386		
	d Below Dark Surface	e (A11)	Depleted Oc	hric (F11)	(MLRA 1	51)					
	ark Surface (A12)		Iron-Mangan				MO	s of hydrophytic v			
	rairie Redox (A16) (the second secon			', U)		hydrology must b			
	Mucky Mineral (S1) (LRR O, S)	Delta Ochric			0.0 4508\		disturbed or proble	ematic.		
	Bleyed Matrix (S4) Redox (S5)		Reduced Ve Piedmont Flo								
	Matrix (S6)						A 149A, 153C, 153	3D)			
	rface (S7) (LRR P,	S, T, U)	_								
Restrictive	Layer (If observed)	:									
Type:									110.700		
Depth (in	ches):	300000000000000000000000000000000000000					Hydric Soll Pre	sent? Yes	No_X		
Remarks:											
						,					
						and the second second					



Upland data point wsuo016_u facing north.



Upland data point wsuo016_u facing south.

Project/Site: ACP City/	County: Suffolk		Sampling Date: 10/7/15			
Applicant/Owner: Deminion			Sampling Point: WSU0013F.			
Investigator(s): J. Benton Section	tion, Township, Range:					
Landform (hillslope, terrace, etc.): Floodplain Loca	al relief (concave, convey	none) Conca	ve. Slone (%): 0 - 7			
Subregion (LRR or MLRA): LRRT Lat: 36.65						
			ation: PFO			
Soil Map Unit Name: Levy Silty clay ban						
Are climatic / hydrologic conditions on the site typical for this time of year?						
Are Vegetation, Soil, or Hydrology significantly distu	urbed? Are "Norma	al Circumstances" p	resent? Yes X No			
Are Vegetation, Soil, or Hydrology naturally problem	natic? (If needed,	explain any answer	s in Remarks.)			
SUMMARY OF FINDINGS - Attach site map showing sa	mpling point locati	ions, transects,	important features, etc.			
Hydrophytic Vegetation Present? Yes	Is the Sampled Area within a Wetland?		No			
Remarks:			-			
Bottomland hardwood forest						
HYDROLOGY						
Wetland Hydrology Indicators:			tors (minimum of two required)			
Primary Indicators (minimum of one is required; check all that apply)		Surface Soil (
Surface Water (A1) Aquatic Fauna (B13) High Water Table (A2) Marl Deposits (B15) (LF	D III	Sparsely Veg	etated Concave Surface (B8)			
X Figh Water Table (A2)		Moss Trim Li				
	along Living Roots (C3)	1,700,700	Water Table (C2)			
Sediment Deposits (B2) Presence of Reduced In		X Crayfish Burn				
Drift Deposits (B3) Recent Iron Reduction i			sible on Aerial Imagery (C9)			
Algal Mat or Crust (B4) Thin Muck Surface (C7)		Geomorphic				
Iron Deposits (B5)						
Inundation Visible on Aerial Imagery (B7)	★ FAC-Neutral Test (D5)					
		Sphagnum m	oss (D8) (LRR T, U)			
Field Observations:						
Surface Water Present? Yes No _X_ Depth (inches):	NA					
Water Table Present? Yes X No Depth (inches):	4		✓			
Saturation Present? Yes X No Depth (inches): (includes capillary fringe)	Surface Wetland	Hydrology Presen	t? Yes No			
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pr	revious inspections), if av	vailable:				
Parada						
Remarks:						
buttressed trees						
			>			
			- consumer - management			

20 42 -	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ×30)		Species?		Number of Dominant Species q That Are OBL. FACW. or FAC: (A)
1. Acer rubrum	35	-1	FAC	That Are OBL, FACW, or FAC:(A)
	25	4		Total Number of Dominant
3. Ilex opaca	15	\rightarrow	FAC	Species Across All Strata: (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: (A/B)
6				Barriera
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
	75	= Total Cov	er	OBL species x 1 =
50% of total cover: 37-5	20% of	total cover	15	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30 x 30)	5			FAC species x 3 =
1. Lightrum sinease	10	4	FAC	FACU species x 4 =
2. Ilex opaca	5	4	FAC	UPL species x 5 =
3. Fraxinus pennsylvanica	5	4	FACW	Column Totals: (A) (B)
		1		Boundary Indian Bria
5				Prevalence Index = B/A =
				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				X 2 - Dominance Test is >50%
8	20	= Total Cov		3 - Prevalence Index is ≤3.01
				Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 10	20% of	total cover		
Herb Stratum (Plot size: 30 × 30)	2.0	~1	-11	¹ Indicators of hydric soil and wetland hydrology must
1. Micro Stegium vimineum	30		FAC	be present, unless disturbed or problematic.
2. Boehmeria Cylindrica	10	4	FATEW	Definitions of Four Vegetation Strata:
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub - Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8.				Herb – All herbaceous (non-woody) plants, regardless
9.				of size, and woody plants less than 3.28 ft tall.
10				
11				Woody vine – All woody vines greater than 3.28 ft in height.
				noight.
12	40	= Total Cov		
50% of total cover: 20	200/ =	total cover	8	
Woody Vine Stratum (Plot size: 30 × 30)	20% 01	total cover		
	5	1	FAC	
1. Lonicera japoniza			INC	
2				
3				
4.				
5				Hydrophytic
2 -		= Total Cov	er	Vegetation Present? Yes No
50% of total cover: 2.5	20% of	total cover	:	Present? Tes No
Remarks: (If observed, list morphological adaptations below	w).			
3 - 2 - 3				

Depth	Matrix	to the depti	Red	ox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type	Loc ²	Texture	Remarks	
0-20	2.543/1	95	7.54R5/8	5	<u></u>		SiL_		
	F								
							2		
	ncentration, D=Dep ndicators: (Applic					ains.		Pore Lining, M=Matrix. Problematic Hydric Soils ³ :	
_ Histosol (A1)		Polyvalue B	Below Surfac	e (S8) (L				
_ Histic Ep _ Black His	pedon (A2)			Surface (S9) cky Mineral ((A10) (LRR S) ertic (F18) (outside MLRA 150A.B	
	Sulfide (A4)			yed Matrix (F		0,	Reduced Vertic (F18) (outside MLRA 150A,B) Piedmont Floodplain Soils (F19) (LRR P, S, T)		
Stratified	Layers (A5)		Depleted M					Bright Loamy Soils (F20)	
_	Bodies (A6) (LRR P		_	k Surface (Fi			(MLRA 1		
_	ky Mineral (A7) (LI sence (A8) (LRR U			ark Surface ressions (F8			Red Parent Material (TF2) Very Shallow Dark Surface (TF12)		
	k (A9) (LRR P, T)	•	Marl (F10)		•			ain in Remarks)	
	Below Dark Surfac	e (A11)		chric (F11) (T) 3Indicators	of hydrophytic vegetation and	
	rk Surface (A12) airie Redox (A16) (I	ALRA 150A		inese Masse face (F13) (I	ls (F12) (LRR P. T	LRR O, P, . U)		of hydrophytic vegetation and hydrology must be present,	
	ucky Mineral (S1) (I			ic (F17) (ML		, -,		isturbed or problematic.	
	eyed Matrix (S4)			ertic (F18) (I					
T 100	edox (S5) Matrix (S6)			loodplain So			19A) IA 149A, 153C, 153	וח	
	face (S7) (LRR P, \$	S, T, U)		Digit Loan	iy cons (20) (11121)	1437, 1550, 155	5 ,	
	ayer (if observed):		2.2						
Туре:			_					· · · · · · · · · · · · · · · · · · ·	
	hes):						Hydric Soil Pres	sent? Yes X No	
Remarks:									



Wetland data point wsuo013f_w facing east.



Wetland data point wsuo013f_w facing west.

Project/Site: ACP	City/County: Suffolk	Sampling Date: 10/7/15
Applicant/Owner: Dominion	,	State: VA Sampling Point: WSUD DI3_v1
Investigator(s): J. Benton	Section, Township, Range	
Landform (hillslope, terrace, etc.): hillslope	Local relief (concave, con-	ver page): (900 a V 0 Slage (%): 0 ~ 2
		$_{\text{op}} = 76.85 _{69}$ Datum: $_{\text{W65-84}}$
Soil Map Unit Name: Goldsboro fine Sandy loan.		
,		
Are climatic / hydrologic conditions on the site typical for this time of years.		
Are Vegetation, Soil, or Hydrology significantly	y disturbed? Are "No	rmal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally pr	roblematic? (If needs	ed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing	g sampling point loc	ations, transects, important features, etc.
Hydrophytic Vegetation Present?	Is the Sampled Ar	~
Remarks:		
LIVERGUESE	× 50	
HYDROLOGY		
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B1		Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B1		Drainage Patterns (B10) Moss Trim Lines (B16)
Saturation (A3) Hydrogen Sulfide Oxidized Rhizospi	neres along Living Roots (C	
Sediment Deposits (B2) Presence of Redu		Crayfish Burrows (C8)
	ction in Tilled Soils (C6)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface		Geomorphic Position (D2)
Iron Deposits (B5) Other (Explain in F	Shallow Aquitard (D3)	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)	
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)	
Field Observations:		
Surface Water Present? Yes No Depth (inches		
Water Table Present? Yes No _X_ Depth (inches		
Saturation Present? Yes No Depth (inches (includes capillary fringe)	s): Wetla	nd Hydrology Present? Yes No _X
Describe Recorded Data (stream gauge, monitoring well, aerial phot	os, previous inspections), if	f available:
Remarks:		

30 x 2 =	Absolute			Dominance Test worksheet:
Tree Stratum (Plot size: 30 × 30)	-1	Species?		Number of Dominant Species
1. Liriodendron tulipitera	35	1	FACU	That Are OBL, FACW, or FAC:(O(A)
2. Liquidambar styraciflya	20	4	FAC	Total Number of Dominant
3. Quercus alba	15	4	FACU	Species Across All Strata:(B)
4				Descent of Deminent Species 7
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 75 (A/B)
6				
7				Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
0	70	= Total Co		OBL species x 1 =
50% of total cover: 35	200/ -4	- Total Co	. 14	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30 × 30)	20% 0	total cover		FAC species x 3 =
Sapling/Shrub Stratum (Plot size:	75	V	FAC	FACU species x 4 =
1. Ilex opaca	40	-1		UPL species x 5 =
2. Carpinus Caroliniana		1	FAC	Column Totals: (A) (B)
3				Column Totals (A) (B)
4				Prevalence Index = B/A =
5		5 W C		Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				× 2 - Dominance Test is >50%
8.				3 - Prevalence Index is ≤3.01
0.	35	= Total Co	/er	
50% of total cover: 17.5	2004 ed	total agree	. 7	Problematic Hydrophytic Vegetation ¹ (Explain)
Herb Stratum (Plot size: 30 × 30)	_ 20% 0	total cover	· <u> </u>	
Herb Stratum (Plot size:)	-	4	E Arial	Indicators of hydric soil and wetland hydrology must
1. Osmundastrum Cinnamomeum			LVCON	be present, unless disturbed or problematic.
2				Definitions of Four Vegetation Strata:
3				Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4	11 0			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.				Hart All back and Consultation of States and
9.				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
(A. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.				(This is the C * Color of the
10				Woody vine - All woody vines greater than 3.28 ft in
11				height.
12	- American			
2 =		= Total Co		
50% of total cover: 2.5	20% of	total cover	:	£
Woody Vine Stratum (Plot size: 30 × 30)			-	
1. Vitis rotundifolia	10	1	TAC	
2. Lonicera japonica	5	1	FAC	
3				
4.				
5.				Hudrophytle
	15	= Total Co	/er	Hydrophytic Vegetation
50% of total cover: 7.5		total cover		Present? Yes X No
		total cover		(32)
Remarks: (If observed, list morphological adaptations belo	w).			

oth	Matrix	Rec	lox Features			the absence of in	
thes) Color (moist) %	Color (moist)	%	Type	Loc ²	Texture	Remarks
-6 2.54		<u> </u>				SL_	
-20 loye	216 80	7.54R 5/8	20		M	3L	
-6 Z.57 -20 loyk	A4) 5) (LRR P, T, U) (A12) (A16) (MLRA 1 ral (S1) (LRR O, ix (S4)) (LRR P, S, T, U) (Served):	RM=Reduced Matrix. Mall LRRs, unless oth Polyvalue EThin Dark SLoamy Mudel Loamy Gley Depleted Martice Depleted Depleted Depleted Depleted Depleted Olympic Sur Solon Delta Ochrima Reduced Veriedmont Fanomalous	MS=Masked erwise note Below Surface Surface (S9) Sky Mineral (yed Matrix (I latrix (F3) C Surface (F11) chric (F11) Inese Masse face (F13) (c (F17) (ML ertic (F18) (I loodplain Se	Sand Gradd.) ce (S8) (L (LRR S, (F1) (LRR F2) (MLRA 1: es (F12) (I LRR P, T RA 151) MLRA 15	M	2Location: PL= Indicators for F Indicato	Pore Lining, M=Matrix. Problematic Hydric Solis³; (A9) (LRR O) (A10) (LRR S) ertic (F18) (outside MLRA 150A, B loodplain Soils (F19) (LRR P, S, T) Bright Loamy Soils (F20) 53B) Material (TF2) w Dark Surface (TF12) ain in Remarks) s of hydrophytic vegetation and hydrology must be present, listurbed or problematic.



Upland data point wsuo013_u1 facing east.



Upland data point wsuo013_u1 facing west.

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: ACP	City/County: 5	uffolk		Sampling Date:	10/7/15
Applicant/Owner: Dominion					WS40 013 - UZ
Investigator(s): J. Benton					
Landform (hillslope, terrace, etc.): hillslope				ALIP Shor	2-4
Subregion (LRR or MLRA): LRRT Lat: 36					
Soil Map Unit Name: Nansemond loany fine Sand	1				
Are climatic / hydrologic conditions on the site typical for this time of y					
Are Vegetation, Soil, or Hydrology significantl	y disturbed?	Are "Norma	al Circumstances"	present? Yes	X No
Are Vegetation, Soil, or Hydrology naturally p	roblematic?	(If needed,	explain any answ	ers in Remarks.)	
SUMMARY OF FINDINGS - Attach site map showin	g sampling po	int locati	ons, transect	s, important fo	eatures, etc.
Hydrophytic Vegetation Present? Yes X No					
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No No		npled Area		./	
Wetland Hydrology Present?	within a V	Vetland?	Yes	No_X	-
Remarks:					
upland inclusion					
HYDROLOGY					
Wetland Hydrology Indicators:			Secondary Indic	ators (minimum of	f two required)
Primary Indicators (minimum of one is required; check all that apply)		Surface Soi	Cracks (B6)	
Surface Water (A1) Aquatic Fauna (B	13)		Sparsely Ve	egetated Concave	Surface (B8)
High Water Table (A2) Marl Deposits (B1	5) (LRR U)		Drainage Pa	atterns (B10)	
Saturation (A3) Hydrogen Sulfide	Odor (C1)		Moss Trim I	Lines (B16)	
Water Marks (B1) Oxidized Rhizosp	heres along Living	Roots (C3)	Dry-Season	Water Table (C2))
Sediment Deposits (B2) Presence of Redu			Crayfish Bu	Control of the contro	7.35 Charles
	ction in Tilled Soils	(C6)		/isible on Aerial In	nagery (C9)
Algal Mat or Crust (B4) Thin Muck Surfac				Position (D2)	
Iron Deposits (B5) Other (Explain in	Remarks)		Shallow Aqu		
Inundation Visible on Aerial Imagery (B7)			FAC-Neutra	moss (D8) (LRR 7	e 11)
Water-Stained Leaves (B9) Field Observations:		1	Spriagrium	moss (DO) (ERR 1	, 0/
Surface Water Present? Yes No _X Depth (inche	N/A				
Water Table Present? Yes No X Depth (inche					1
Saturation Present? Yes No Depth (inche	-1.	Wotland	Hydrology Prese	nt? Vac	No X
(includes capillary fringe)	5).	Wettand	Tryurology Frese		. 110
Describe Recorded Data (stream gauge, monitoring well, aerial pho	tos, previous inspe	ctions), if av	ailable:		
Remarks:					
7					

•	Absolute	Dominan	t Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 X 30)	% Cover			
1. Lirio dendron tulioifera	50		FACU	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
				That Are OBL, FACW, or FAC: (A)
2. Pinus tarda	30		FAC	Total Number of Dominant
3				Total Number of Dominant Species Across All Strata: (B)
				Species / toross / tri otrata.
4				Percent of Dominant Species (2
5				That Are OBL, FACW, or FAC: (A/B)
6				
N. St.				Prevalence Index worksheet:
7				Total % Cover of:Multiply by:
8				
	80	= Total Co	over	OBL species x 1 =
50% of total cover: 40				FACW species x 2 =
	20% 0	total cove	1	FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 30 × 30)			_	
1. Carpinus caroliniana	10	4	FAC	FACU species x 4 =
2. Liquidambar Styraciflua	5	4	FAC	UPL species x 5 =
	==	- 4		Column Totals: (A) (B)
3. Cornus florida		7	FACU	Column Foldis (7) (5)
4			Charles and the same	Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				
				∑ 2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.01
	20	= Total Co	over	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover:	20% of	total cove	r 4	
Herb Stratum (Plot size: 30 x 30)		10101 0010		
	1		EALL	¹ Indicators of hydric soil and wetland hydrology must
1. Polystichum acrostichoides	10	7	FACU	be present, unless disturbed or problematic.
2. Osmundastrum cinnamomeum	5	4	FACW	Definitions of Four Vegetation Strata:
3				Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub - Woody plants, excluding vines, less
7			2	than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8.				
				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine - All woody vines greater than 3.28 ft in
11				height.
				neight.
12.				
	15	= Total Co	over	
50% of total cover: 7,5		total cove		
		total cove		
Woody Vine Stratum (Plot size: 30 X 30)	_			
1. Lonicera japonica	5	4	FAC	
2				
3				
4				
J				Hydrophytic
	5	= Total Co	over	Vegetation Present? Yes No
50% of total cover: 2.5	20% of	total cove	r l	Present? Yes X No No
Remarks: (If observed, list morphological adaptations belo				
Remarks: (If observed, list morphological adaptations belo	w).			

President of the London State of the State of	cription: (Describe t	to the dept		nent the i c Feature		or confirm	the absence of inc	dicators.)	
Depth (inches)	Matrix Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-8	2.545/6	100					SL		
8-14	2.545/6	90	7.54R 5/8	10	C	M	SL		
14-20	7.54R 518	100	1.5 /1 //				<u> </u>		
14-20	T.341 18	100							
¹Type: C=C	oncentration, D=Depl	etion, RM=	Reduced Matrix, MS	=Masked	Sand Gr	ains.	² Location: PL=F	ore Lining, M=Mat	rix.
	Indicators: (Applica							roblematic Hydric	
Histosol	(A1)		Polyvalue Be	low Surfa	ce (S8) (L	.RR S, T, U) 1 cm Muck (A9) (LRR O)	
	pipedon (A2)		Thin Dark Su					A10) (LRR S)	
_	stic (A3)		Loamy Mucky			(0)		rtic (F18) (outside	
	en Sulfide (A4)		Loamy Gleye		F2)		A Company of the Comp	oodplain Soils (F19 Bright Loamy Soils	
	d Layers (A5) Bodies (A6) (LRR P,	T. UI	Depleted Mat		6)		(MLRA 15		20/
	icky Mineral (A7) (LR		Depleted Dar					Material (TF2)	
_	esence (A8) (LRR U		Redox Depre				71 -7 1 1153	w Dark Surface (TF	12)
	ick (A9) (LRR P, T)		Marl (F10) (L				Other (Expla	in in Remarks)	
	d Below Dark Surface	e (A11)	Depleted Oct				- 3 ₁₋₄ ;t	of hardsonhadin and	etation and
	ark Surface (A12) rairie Redox (A16) (N	II DA 150A	Iron-Mangane) Umbric Surfa					of hydrophytic veg nydrology must be	
	Mucky Mineral (S1) (L		Delta Ochric		5	, 0,		sturbed or problem	
	Sleyed Matrix (S4)	-, -,	Reduced Ver			OA, 150B)			100000000
Sandy R	Redox (S5)		Piedmont Flo						
	Matrix (S6)		Anomalous B	right Loai	my Soils (F20) (MLR	A 149A, 153C, 153I	D)	
	rface (S7) (LRR P, S	, T, U)					Ι		
	Layer (if observed):								
Type:	oh o o):						Hydric Soil Pres	ent? Yes	No X
	ches):						nyunc son Fies	eintr 165	_ 140
Remarks:									



Upland data point wsuo013_u2 facing northeast.



Upland data point wsuo013_u2 facing southwest.

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region Project/Site: # Dominion Applicant/Owner: __ Investigator(s): LKR, CSM Section, Township, Range: _MDNC Local relief (concave, convex, none): Lon Cave Landform (hillslope, terrace, etc.): Dranage Lat: 36.66487°N Long: 76,85137°W Subregion (LRR or MLRA): LPRT Soil Map Unit Name: Nanstmona Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No __X_ (If no, explain in Remarks.) 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 Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Remarks: Abnormally dry conditions (based on 9/22 drought monitor) 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 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: Yes _____ No X Depth (inches): ___ Surface Water Present? Yes ____ No _X Depth (inches): >20 Water Table Present? Wetland Hydrology Present? Yes Yes No V Depth (inches): 20 Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

2 - 1/2	Absolute Domin	ant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 × 30)	% Cover Specie		Number of Dominant Species That Are OBL, FACW, or FAC:
Fraximus pennsylvanica	5 N	FACW	CHAIR THE STORMAN AND AND AND AND AND AND AND AND AND A
Ligustrum sinense.	15 N	FAC	Total Number of Dominant Species Across All Strata: (B)
			Percent of Dominant Species
			That Are OBL, FACW, or FAC: 831, (A/B)
			Prevalence Index worksheet:
			Total % Cover of: Multiply by:
	4D = Total	Cover	OBL species x 1 =
50% of total cover: _ 20	20% of total co	ver: 8	FACW species x 2 =
apling/Shrub Stratum (Plot size: 35×30)			FAC species x 3 =
Ligustrum sinense	20 Y	FAC	FACU species x 4 =
Ilex opaca	10 N/	FAC	UPL species x 5 =
			Column Totals: (A) (B)
			Prevalence Index = B/A =
	- <u></u>		Hydrophytic Vegetation Indicators:
			1 - Rapid Test for Hydrophytic Vegetation
			2 - Dominance Test is >50%
			3 - Prevalence Index is ≤3.01
1.0	30 = Total	Cover	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 15	20% of total co	over:	
Herb Stratum (Plot size: SO X30)	10 V	DBL	Indicators of hydric soil and wetland hydrology must
. Wood Wardia areolata	10 7		be present, unless disturbed or problematic.
Athyrium asplenioides	10 Y	FAC	Definitions of Four Vegetation Strata:
Liquistrum sinense		FAL	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) of
			more in diameter at breast height (DBH), regardless of
• <u></u>			height.
• <u>1000 100 100 100 100 100 100 100 100 1</u>			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, regardles of size, and woody plants less than 3.28 ft tall.
0			
1.			 Woody vine – All woody vines greater than 3.28 ft in height.
2.			
	30 = Tota	al Cover	
50% of total cover:	5 20% of total of	cover:	
Woody Vine Stratum (Plot size: 30×30)			
1. Vitis rotundifolia	10	FAL	
2.			
3.			
4	and the second second		
5			- Understade
·		al Cover	- Hydrophytic Vegetation
50% of total cover: _ 5			Present? Yes No
		LIVE L	

pth Matrix	epth needed to document the Redox Feature			
ches) Color (moist) %	Color (moist) %	Type¹ Loc²	Texture	Remarks
-6 IDYR 3/2 98	164R 4/4 2	C M	CL_	
1-10 TOYR 3/1 100	Carried the second program of the control of the co		SCL	
-20 loye 5/2 lot			S	
101 101 1 10E	>			
pe: C=Concentration, D=Depletion, F dric Soil Indicators: (Applicable to 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 Muck Presence (A8) (LRR U) 1 cm Muck (A9) (LRR P, T) Depleted Below Dark Surface (A11) Thick Dark Surface (A12)	all LRRs, unless otherwise no Polyvalue Below Surf Thin Dark Surface (St Loamy Mucky Minera Loamy Gleyed Matrix Depleted Matrix (F3) Redox Dark Surface Redox Depressions (Marl (F10) (LRR U) Iron-Manganese Mas	ted.) ace (S8) (LRR S, T, U g) (LRR S, T, U) I (F1) (LRR O) (F2) (F6) te (F7) F8) I) (MLRA 151) teses (F12) (LRR O, P,	Indicators for P 1 cm Muck (2 cm Muck (Reduced Ve Piedmont FI Anomalous (MLRA 15 Red Parent Very Shallo Other (Expl	Material (TF2) w Dark Surface (TF12) ain In Remarks) s of hydrophytic vegetation and
Coast Prairie Redox (A16) (MLRA 2 Sandy Mucky Mineral (S1) (LRR 0, Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U)	Delta Ochric (F17) (N Reduced Vertic (F18 Piedmont Floodplain Anomalous Bright Lo		unless o 49A)	hydrology must be present, listurbed or problematic.
estrictive Layer (if observed):				
Type:				sent? Yes X No
Depth (inches):	Landana esta de la companya de la co		Hydric Soil Pre	sent? Yes / No



Wetland data point wsuo012f_w facing west.



Wetland data point wsuo012f_w facing south.

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region State: VA Sampling Point WSub012-4 Applicant/Owner: Dom Inion Section, Township, Range: Con Cave Investigator(s): LKR Local relief (concave, convex, none): CONCAVE Slope (%): 1 Landform (hillslope, terrace, etc.): Hilstope 6.66499 N Long: 76.851229 Subregion (LRR or MLRA): LPRT Soil Map Unit Name: NanSemond Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No __X__ (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes No______ No___ 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 Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Remarks: Abnormally dry conditions (based on 9/22 drought monitor 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 X Depth (inches): NA Surface Water Present? Yes No X Depth (inches):_ Water Table Present? Wetland Hydrology Present? Yes ___ No X Depth (Inches): 2 Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

.

GETATION (Four Strata) – Use scientific n	Absolute Dominant Indicato	Sampling Point: Worksheet:
ee Stratum (Plot size: 30 X 30	% Cover Species? Status	- Number of Dominant Species
Liriodendron tilipifera	- 5 N FAC	
ZITTOSENIATO TRUPITOR		Total Number of Dominant Species Across All Strata: [B]
		Percent of Dominant Species
		That Are OBL, FACW, or FAC: (A/E
		Prevalence Index worksheet:
		Total % Cover of:Multiply by:
	35 = Total Cover _	OBL species x 1 =
50% of total cover: 17	.5 20% of total cover: 7	FACW species x 2 =
ling/Shrub Stratum (Plot size: 30 × 30)		FAC species x 3 =
Liquidambar styraciflua	5 N FA	- I
Liriodendron tulipitera	10 Y FACI	
Ilex opaca	5 N FAC	Column Totals: (A) (B
		Prevalence Index = B/A =
		Hydrophytic Vegetation Indicators:
		- Rapid Test for Hydrophytic Vegetation
		— 2 - Dominance Test is >50%
	70	— ☐ 3 - Prevalence Index is ≤3.0¹
50% of total cover:	20% of total cover:	Problematic Hydrophytic Vegetation ¹ (Explain)
Arundinaria 919artea	15 Y FACE	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Onoclea sensibilis	10 N FAC	
Athyrium asplenioides	10 N FAK	
Osmundia cinnamomea		more in diameter at breast height (DBH), regardless
Ligustrum sinense	10 N FAI	
Microstegium vimineum	20 Y FAI	Sapling/Shrub – Woody plants, excluding vines, les than 3 in. DBH and greater than 3.28 ft (1 m) tall.
		- Woody vine - All woody vines greater than 3.28 ft i
		height.
	70 = Total Cover 5 20% of total cover: 1/2	
body Vine Stratum (Plot size: 30 ×30)	20% of total cover; _/	
vitis rohinditalia	10 Y FA	L
		ACC
		- Indeed at
	70 = Total Cover	Hydrophytic Vegetation
50% of total cover:	7. Company of the Com	Present? Yes No

rofile Description: (Describe to the dep			or committee		atoro.,	
Depth Matrix inches) Color (moist) %	Color (moist)	Features 7vpe1	Loc²	Texture	Remarks	
inches) Color (moist) % 0-10 10 YR 4/3 106	Color (Indist)	70 1706		SI	HOHIO	THE RES
	7 C VD HI	EO	- A /	LS		
4-12 104R 4/3 95	7.5/K 1/6	2 10	- H	15		
2-20 104R 4/1 95	10 1K 476	5 6	<u>M</u> , _	L 0		
Type: C=Concentration, D=Depletion, RN	M=Reduced Matrix, MS=		rains.	² Location: PL=Po	re Lining, M=Matrix	
lydric Soil Indicators: (Applicable to al	I LRRs, unless otherw	vise noted.)		Indicators for Pro		
Histosol (A1)		ow Surface (S8) (1 cm Muck (A		
Histic Epipedon (A2)		face (S9) (LRR S		2 cm Muck (A		U DA 450A 5
Black Histic (A3)		Mineral (F1) (LR	R 0)		ic (F18) (outside M odplain Soils (F19)	
Hydrogen Sulfide (A4)	Loamy Gleyed				ight Loamy Soils (F	
Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U)	Depleted Matr Redox Dark S			(MLRA 153		20,
5 cm Mucky Mineral (A7) (LRR P, T, U	A September 1997 Annual Control of the Control of t			Red Parent M		
Muck Presence (A8) (LRR U)	Redox Depres				Dark Surface (TF1	2)
1 cm Muck (A9) (LRR P, T)	Marl (F10) (LF				n in Remarks)	
Depleted Below Dark Surface (A11)	☐ Depleted Och	ric (F11) (MLRA	151)			
Thick Dark Surface (A12)	☐ Iron-Mangane	se Masses (F12)	(LRR O, P, T		of hydrophytic vege	
Coast Prairie Redox (A16) (MLRA 15		ce (F13) (LRR P,			drology must be p	
Sandy Mucky Mineral (S1) (LRR O, S		F17) (MLRA 151		unless dis	turbed or problema	tic.
Sandy Gleyed Matrix (S4)		ic (F18) (MLRA				
Sandy Redox (S5)		odplain Soils (F1				
Stripped Matrix (S6)	Anomalous B	right Loamy Soils	(F20) (MLRA	149A, 153C, 153D)	
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed):						
Type:			All I			\/
Depth (inches):				Hydric Soil Prese	ent? Yes	No X
		and the second				
Remarks:						



Upland data point wsuo012_u facing north.



Upland data point wsuo012_u facing east.

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: ACP Applicant/Owner: DOMINION Investigator(s): EST-5, Harbour, K. Marpurey Section Landform (hillslope, terrace, etc.): drainage Local Subregion (LRR or MLRA): LRR+ Lat: 36,667 Soil Map Unit Name: GOLDS DOTO Fine Sondy (DOM), 2-59. Are climatic / hydrologic conditions on the site typical for this time of year? Y Are Vegetation, Soil, or Hydrology significantly distured are Vegetation, Soil, or Hydrology naturally problems SUMMARY OF FINDINGS - Attach site map showing same	relief (concave, convex, none): CONCA:VE Slope (%) OF 2 53 Long: 76.84496 Datum: W65.84 Slopes, exceed NWI classification: PEM Yes No (If no, explain in Remarks.) bed? Are "Normal Circumstances" present? Yes No atic? (if needed, explain any answers in Remarks.)
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks:	Is the Sampled Area within a Wetland? Yes No
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Aquatic Fauna (B13) High Water Table (A2) Marl Deposits (B15) (LR Saturation (A3) Hydrogen Sulfide Odor (Water Marks (B1) Oxidized Rhizospheres at the company of the compa	C1)
Field Observations: Surface Water Present? YesNo Depth (inches):	

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

2-5:1/2:5:	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 306+X306+) 1. NORE PLESENT	% Cover Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC:(A)
2		Total Number of Dominant Species Across All Strata: (B)
3		Species Across Air otrata.
4		Percent of Dominant Species That Are ORL FACW or FAC: (A/B)
5		That Are OBL, FACW, or FAC: (A/B)
6		Prevalence Index worksheet:
7		Total % Cover of: Multiply by:
8		OBL species x 1 =
	= Total Cover	FACW species x 2 =
50% of total cover:	20% of total cover:	FAC species x3 =
Sapling/Shrub Stratum (Plot size: 305+ X305+)		FACU species x 4 =
1. Nune present		
2.		UPL species x 5 =
3.		Column Totals: (A) (B)
4.		Prevalence Index = B/A =
5		Hydrophytic Vegetation Indicators:
6.		Rapid Test for Hydrophytic Vegetation
7		2 - Dominance Test is >50%
2		3 - Prevalence Index is ≤3.0¹
8	() = Total Cover	
FOOY of hat all any con-		Problematic Hydrophytic Vegetation¹ (Explain)
	20% of total cover:	
Herb Stratum (Plot size: 3054 X 305+) 1. JUNUS REFUSUS	40 Y OBL	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. DUNCAS ECTUSUS	10 N FACW	Definitions of Four Vegetation Strata:
2 Onoclea sensibilis	15 N FACW	Definitions of Four Vegetation Strata.
3. Solidoop gigantea	10 110	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4. AloPercurus carolinianus		more in diameter at breast height (DBH), regardless of height.
5. Trifolium Platense	10 N FACU	neight.
6. Andropogua vivginicus	2 N FAC	Sapling/Shrub - Woody plants, excluding vines, less
7		than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8		Herb - All herbaceous (non-woody) plants, regardless
9		of size, and woody plants less than 3.28 ft tall.
10		Woody vine - All woody vines greater than 3.28 ft in
11.		height.
12		
	82 = Total Cover	
50% of total cover: 4	20% of total cover: 16.4	
Woody Vine Stratum (Plot size 305+ X305+)		
1. Olde Present		
2		
3.		
4		
5		Hydrophytic
275 2070 2000 7000 700 700 700 700 700 700	= Total Cover	Vegetation Present? Yes No
50% of total cover:	20% of total cover:	Present res no
Remarks: (If observed, list morphological adaptations belo	ow).	
	٧.	

	cription: (Describe	e to the dept		ment the in ox Features		or confirm	the absence of	mulcators.	,	
Depth (inches)	Matrix Color (moist)	%	Color (moist)	%	Type	Loc²	Texture		Remarks	
0-20	104R3/1	90	104R3/6	2	C	PL	SL			
U 000	100/1		104R3/6	8	-	M	SL			
			10417			144				
					7 1 2 1 2 1 2 1 2					
¹Type: C=C	oncentration, D=De	pletion, RM=	Reduced Matrix, M	S=Masked	Sand Gr	ains.	² Location: P	L=Pore Linir	ig. M=Matrix.	2
Hydric Soil	Indicators: (Appli	cable to all	LRRs, unless othe	rwise note	d.)		Indicators fo	r Problema	tic Hydric So	lls":
Histosol			Polyvalue B			RR S, T, U) 1 cm Mu	ck (A9) (LR	R O)	
	pipedon (A2)		Thin Dark S				2 cm Mu	ck (A10) (LF	RS)	
	istic (A3)		Loamy Much				Reduced	Vertic (F18) (outside ML	RA 150A,B)
	en Sulfide (A4)		Loamy Gley	ed Matrix (F	F2)				Soils (F19) (L	
	d Layers (A5)		Depleted Ma	atrix (F3)				-	amy Soils (F2	0)
Organic	Bodies (A6) (LRR	P, T, U)	Redox Dark					153B)	(TE2)	
	ucky Mineral (A7) (L							ent Material		
	resence (A8) (LRR		Redox Depr	* * * * * * * * * * * * * * * * * * * *	3)				urface (TF12)	
	uck (A9) (LRR P, T)		Marl (F10) (E41	Other (E	xplain in Re	iidika)	
	d Below Dark Surfa	ice (A11)	Depleted Oc				T) ³ Indicat	ors of hydro	phytic vegetat	ion and
	ark Surface (A12)	(111 DA 450)	Iron-Mangar						must be pres	
-	rairie Redox (A16)		Delta Ochrid			, 0)	unles	s disturbed	or problematic	
	Mucky Mineral (S1)	(LKK U, S)	Reduced Ve	ertic (F18) (MLRA 1	OA. 150B)				
	Gleyed Matrix (S4) Redox (S5)		Piedmont Fl							
	d Matrix (S6)						A 149A, 153C, 1	53D)		
	rface (S7) (LRR P,	S. T. U)								
	Layer (if observed									
Type:										
	iches):						Hydric Soll P	resent? '	res	No
Remarks:										
Kemarks.										



Wetland data point wsup030e_w facing northeast.



Wetland data point wsup030e_w facing southwest.

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region Project/Site: ACP Applicant/Owner: Dominion Investigator(s): ESI-J. Harbour, I. Murenie, Section, Township, Range: NA Landform (hillslope, terrace, etc.): hillSlope Local relief (concave, convex, none): CONEX Slope (%) 2 4 Subregion (LRR or MLRA): LRRT Lat:36,66758 Long: -76,84503H Datum: W6584 Soil Map Unit Name: Golds ovo Fine Sandy Warn, 2-540, eroded NWI classification: Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No _____ (If no, explain in Remarks.) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ____ No ___ Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Remarks: HYDROLOGY Secondary Indicators (minimum of two required) Wetland Hydrology Indicators: __ Surface Soil Cracks (B6) Primary Indicators (minimum of one is required, check all that apply) Sparsely Vegetated Concave Surface (B8) ___ Aquatic Fauna (B13) __ Surface Water (A1) Marl Deposits (B15) (LRR U) __ Drainage Patterns (B10) High Water Table (A2) ___ Moss Trim Lines (B16) — Hydrogen Sulfide Odor (C1) __ Saturation (A3) __ Oxidized Rhizospheres along Living Roots (C3) ___ Dry-Season Water Table (C2) 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 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: Surface Water Present? Depth (inches): 720 Water Table Present? Wetland Hydrology Present? Yes ____ Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Data Point taken at field edge

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

26.126	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 308+ X308+	% Cover Species? Status	Number of Dominant Species
		That Are OBL, FACW, or FAC: (A)
2		TALLY CONTROL 1
		Total Number of Dominant Species Across All Strata: (B)
3		Species Across Air otrata.
4		Percent of Dominant Species
5		That Are OBL, FACW, or FAC: (A/B)
6		
7		Prevalence Index worksheet:
		Total % Cover of:Multiply by:
8	= Total Cover	OBL species x 1 =
		FACW species x 2 =
50% of total cover:	20% of total cover:	FAC species x 3 =
Sapling/Shrub Stratum (Plot size:3084 13084)		FACU species 75 x4 = 300
2		UPL species x5 =
		Column Totals: 75 (A) 300 (B)
3.		4.0
4		Prevalence Index = B/A =4,0
5		Hydrophytic Vegetation Indicators:
6.		1 - Rapid Test for Hydrophytic Vegetation
7		2 - Dominance Test is >50%
8.	= Total Cover	3 - Prevalence Index is ≤3.01
		Problematic Hydrophytic Vegetation¹ (Explain)
	20% of total cover:	
Herb Stratum (Plot size: 308+ X 3084)	> 1	¹ Indicators of hydric soil and wetland hydrology must
1 Trifolium Pratease	10 N FACU	be present, unless disturbed or problematic.
2 Festuca vubra	60 Y FACU	Definitions of Four Vegetation Strata:
3. Allium Canadens-e	S N FACU	
3. Alliam Canadense	1 1/10	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4		more in diameter at breast height (DBH), regardless of
5		height.
6		Sapling/Shrub - Woody plants, excluding vines, less
7		than 3 in. DBH and greater than 3.28 ft (1 m) tall.
		and the second s
8		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
9		of Size, and woody plants less than 5.20 it tail.
10		Woody vine - All woody vines greater than 3.28 ft in
11		height.
16.	75 = Total Cover	
27	5 20% of total cover: 15	
	20% of total cover.	
Woody Vine Stratum (Plot size: 3) 84 X3 84		
1. None Present		
2		
3		
4		
5		Hydrophytic
	= Total Cover	Vegetation Present? Yes No
50% of total cover:	20% of total cover:	Present? Yes No
Remarks: (If observed, list morphological adaptations bel		
Remarks: (If observed, list morphological adaptations ber	OW).	
6'-11 -1		
Field edge		

Depth	1 1 - 1 - i - i			Features	firm the absence of Indica	
inches)	Matrix Color (moist)	%	Color (moist)		Texture	Remarks
J- 2U	104R2/2	100			SL	
2 00	10-110-17	100				VA .
	\$-650 C. NY 500 C. DOLLAR CO.					
Type: C=C	oncentration, D=Depl	etion, RM=R	educed Matrix, MS	=Masked Sand Grains.	² Location: PL=Por	e Lining. M=Matrix.
vdric Soil	Indicators: (Applica	able to all LR	Rs, unless other	wise noted.)	Indicators for Prot	olematic Hydric Solis ^a :
_ Histosol				ow Surface (S8) (LRR S,	T, U) 1 cm Muck (A9) (LRR O)
	pipedon (A2)			face (S9) (LRR S, T, U)	2 cm Muck (A1	
				Mineral (F1) (LRR O)	Reduced Vertic	(F18) (outside MLRA 150A,
	stic (A3)		Loamy Gleye		Piedmont Floor	plain Soils (F19) (LRR P, S, T
	n Sulfide (A4)					ght Loamy Soils (F20)
	Layers (A5)	T 10	Depleted Mat		(MLRA 153B	
_ Organic	Bodies (A6) (LRR P,	1, U)	Redox Dark S		Red Parent Ma	
	icky Mineral (A7) (LR			k Surface (F7)		Park Surface (TF12)
	esence (A8) (LRR U))	Redox Depre			
_ 1 cm M	ick (A9) (LRR P, T)		Marl (F10) (L		Other (Explain	iii Keilidiks)
	d Below Dark Surface	e (A11)	Depleted Oct	ric (F11) (MLRA 151)	7	hudaah da wasalalian and
Thick D	ark Surface (A12)			ese Masses (F12) (LRR C		hydrophytic vegetation and
Coast P	rairie Redox (A16) (M	ILRA 150A)	Umbric Surfa	ce (F13) (LRR P, T, U)		rology must be present,
	Mucky Mineral (S1) (L	RR O, S)	Delta Ochric	(F17) (MLRA 151)		rbed or problematic.
Sandy C	Bleyed Matrix (S4)		Reduced Ver	tic (F18) (MLRA 150A, 15	50B)	
	Redox (S5)		Piedmont Flo	odplain Soils (F19) (MLR	A 149A)	
_	Matrix (S6)		Anomalous B	right Loamy Soils (F20) (MLRA 149A, 153C, 153D)	
	rface (S7) (LRR P, S	. T. U)		(A)		
	Layer (if observed):					
	Lujor (11 obso. 10 L).					
Type:			-		Hydric Soil Presen	7 Yes No
Depth (in	ches):		_		Tiyane con riesen	
emarks:						



Upland data point wsup030_u facing north.



Upland data point wsup030_u facing northwest.

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region Project/Site: Sampling Point: WSup 014e Applicant/Owner: _ S. Iosofa Investigator(s): R - TUVN Section, Township, Range: _NA Drainage Local relief (concave, convex, none): CONCAVE Landform (hillslope, terrace, etc.): Subregion (LRR or MLRA): LRRT Soil Map Unit Name: Rains the sandy loam NWI classification: Are climatic / hydrologic conditions on the site typical for this time of year? Yes (If no, explain in Remarks.) Are Vegetation _____, Soil _____, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Remarks: Abnormally Dry conditions (Based on Sept. 15 Drought Monitor) HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) Aquatic Fauna (B13) Sparsely Vegetated Concave Surface (B8) High Water Table (A2) Marl Deposits (B15) (LRR U) Drainage Patterns (B10) Saturation (A3) Hydrogen Sulfide Odor (C1) Moss Trim Lines (B16) Oxidized Rhizospheres along Living Roots (C3) Water Marks (B1) Dry-Season Water Table (C2) Sediment Deposits (B2) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Thin Muck Surface (C7) Geomorphic Position (D2) Iron Deposits (B5) Other (Explain in Remarks) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) FAC-Neutral Test (D5) Water-Stained Leaves (B9) Sphagnum moss (D8) (LRR T, U) Field Observations: Surface Water Present? Yes ____ No X Depth (inches): N/A Yes ____ No X Depth (inches): Water Table Present? Yes ____ No X Depth (inches): >20 Saturation Present? Wetland Hydrology Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

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

Cover Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A) Total Number of Dominant
	Total Number of Dominant
	Species Across All Strata: (B)
	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
	Prevalence Index worksheet:
	Total % Cover of: Multiply by:
	OBL species x1 =
	FACW species x 2 =
20% of total cover	FAC species x 3 =
	FACU species x 4 =
	UPL species x 5 =
	Column Totals: (A) (B)
	Prevalence Index = B/A =
	Hydrophytic Vegetation Indicators:
	1 - Rapid Test for Hydrophytic Vegetation
	2 - Dominance Test is >50%
	3 - Prevalence Index is ≤3.01
	☐ Problematic Hydrophytic Vegetation¹ (Explain)
20% of total cover:	
an Ver ar	¹ Indicators of hydric soil and wetland hydrology must
10 MO FACILI	be present, unless disturbed or problematic.
5 No FAC	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
	of size, and woody plants less than 3.28 ft tall.
	Woody vine – All woody vines greater than 3.28 ft in height.
_ 20% of total cover:	-
	-
	-
	_
	_
	- Hydrophytic
= Total Cover	Vegetation
20% of total cover:	Present? Yes No No No
	O = Total Cover 20% of total cover: O = Total Cover 20% of total cover: O Ves OBL O No FACW No FAC No FAC O Total Cover 20% of total cover: 20% of total cover: 20% of total cover: 20% of total cover: 25

Danth	ription: (Describe to				or commi	the absence of	of indicators.)	
Depth (inches)	Matrix Color (moist)	% Co	Redox Fe	% Type ¹	_Loc ²	Texture	Remarks	
1-3	7.5441Z	100	140 (41)	5 0	177	CL	Tail.	
3-20	2.544/2	90 11	DYR 416	50	PL	71		
20	4	10/	JIN 110	<u> </u>	16		A_94	
						3078		
								Maria de la compansión
							1.8	
ype: C=C	oncentration, D=Deple	tion, RM=Redu	ced Matrix, MS=M	asked Sand G	ains.	² Location:	PL=Pore Lining, M=Ma	rix.
	Indicators: (Applical						for Problematic Hydri	
] Histosol			Polyvalue Below		RR S. T. U		uck (A9) (LRR O)	
	pipedon (A2)	H	Thin Dark Surfac				uck (A10) (LRR S)	
	istic (A3)	1	Loamy Mucky Mi				ed Vertic (F18) (outside	MIRA 150A B
	en Sulfide (A4)	F	Loamy Gleyed M		,		ont Floodplain Soils (F1	
	d Layers (A5)	7	Depleted Matrix				lous Bright Loamy Soils	
	Bodies (A6) (LRR P,		Redox Dark Surf				(A 153B)	(1 20)
	ucky Mineral (A7) (LRF		Depleted Dark S				rent Material (TF2)	
	resence (A8) (LRR U)		Redox Depression				hallow Dark Surface (Ti	F12)
	uck (A9) (LRR P, T)		Marl (F10) (LRR				Explain in Remarks)	
	d Below Dark Surface	(A11)	Depleted Ochric		51)			
Thick Da	ark Surface (A12)		Iron-Manganese			T) ³ Indic	ators of hydrophytic ve	etation and
Coast P	rairie Redox (A16) (M	LRA 150A)	Umbric Surface				land hydrology must be	
	Mucky Mineral (S1) (Li		Delta Ochric (F1				ess disturbed or probler	
	Gleyed Matrix (S4)		Reduced Vertic					
Sandy F	Redox (S5)		Piedmont Flood	plain Soils (F19) (MLRA 14	19A)		
Stripped	d Matrix (S6)		Anomalous Brigi	ht Loamy Soils	(F20) (MLF	RA 149A, 153C	, 153D)	
Dark Su	urface (S7) (LRR P, S,	T, U)						
Restrictive	Layer (if observed):	70						
Type:							\/	
	nches):					Hydric Soil	Present? Yes	No
Remarks:						1.1,4.1.0		
cinanta.								
						· .		
						* 4		
						* 4		
						* 2		
						* .		
						* .		
						*		
						*		
						*		
						•		



Wetland data point wsup014e_w facing northeast.



Wetland data point wsup014e_w facing southeast.

WETLAND DETERMINATION DATA FOR	RM – Atlantic and Gulf Coastal Plain Region
Project/Site: ACP City/	County: Suffolk Sampling Date: 09/15/14
Applicant/Owner: DOMINION	State: VA Sampling Point: WSup014f-w
Investigator(s): R-TWYNVUII. C. IOCOFO Section	Ion Township Range: N/A
	al relief (concave, convex, none): Slope (%):
	796 Long: -76.83453 Datum: WGS 94
Soil Map Unit Name: Rains fine sandy loam	NWI classification: PFO
Are climatic / hydrologic conditions on the site typical for this time of year?	
	urbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally problem	
SUMMARY OF FINDINGS – Attach site map showing sa	mpling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes No No	Is the Sampled Area within a Wetland? Yes No
Remarks:	1
Abnormally Dry conditions (Based on Sep	+. 15 Drought Monider)
,	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Saturation (A3) Mari Deposits (B15) (L	
	s along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2)	Iron (C4) Crayfish Burrows (C8)
☐ Drift Deposits (B3) ☐ Recent Iron Reduction	
☐ Algal Mat or Crust (B4) ☐ Thin Muck Surface (C7 ☐ Iron Deposits (B5) ☐ Other (Explain in Rem.	
Inundation Visible on Aerial Imagery (B7)	arks)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	,
Surface Water Present? Yes No _X Depth (inches): _	
Water Table Present? Yes No Depth (inches): _	
Saturation Present? Yes No _k Depth (inches): _	Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos,	previous inspections), if available:
Develop	
Remarks:	*
₹	
0	

20.120	Absolute			Dominance Test worksheet:	ST M I
Tree Stratum (Plot size: 30 X30) 1. ACLY RUBIAM	20	Species?	FAC	Number of Dominant Species That Are OBL, FACW, or FAC:	(A)
carpinus caroliniana				Total Number of Dominant Species Across All Strata:	(B)
				Percent of Dominant Species That Are OBL, FACW, or FAC:)% (A/B)
-				Prevalence Index worksheet:	
-				Total % Cover of: Multiply	by:
•	40	= Total Cov		OBL species x 1 =	
50% of total cover:	20% 0	f total cover	. 8	FACW species x 2 =	
Sapling/Shrub Stratum (Plot size: 2() X3()	2076 0	i total cover		FAC species x 3 =	3.1
Carpinus caroliniana	50	Yes	FAC	FACU species x 4 =	
Nyssa sylvatica	10	No	FAC	UPL species x 5 =	77 14
				Column Totals: (A)	(B)
				Prevalence Index = B/A =	
•				Hydrophytic Vegetation Indicators:	
i				1 - Rapid Test for Hydrophytic Vegeta	ation
	-			2 - Dominance Test is >50%	
	1.0			3 - Prevalence Index is ≤3.01	
50% of total cover: _3C		= Total Co		Problematic Hydrophytic Vegetation ¹	(Explain)
Herb Stratum (Plot size: 30x30ft) 1				¹Indicators of hydric soil and wetland hydrobe present, unless disturbed or problema Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 more in diameter at breast height (DBH),	in. (7.6 cm) or
5				height.	9774 Ty
6 7				Sapling/Shrub – Woody plants, excludin than 3 in. DBH and greater than 3.28 ft (
8 9				Herb – All herbaceous (non-woody) plan of size, and woody plants less than 3.28	
11				Woody vine – All woody vines greater the height.	nan 3.28 ft in
12					
500/-51-11		_ = Total Co			
50% of total cover:	20%	of total cove	er;	•	
Woody Vine Stratum (Plot size: 30 1/30)	5	11	EACIL		
1. Lonicera japonica 2. Smilar rotundifolia	- -	- Yes	TACU	-	
	_ 15_	Yes	_ LAC	-	
3	_		_	-	
4				-	
5			_	- Hydrophytic	
W		_ = Total C	over	Vegetation	
50% of total cover:\0	20%	of total cov	er: 4	Present? Yes V No	
Remarks: (If observed, list morphological adaptations b	elow).				
70.0 s 100 ft or got the order of the control of th					
×					

Profile Description: (Describe to the depth	needed to document the	mulcator of commit	the absence of indic	ators.)
Depth Matrix	Redox Feature		3 1/2 1/2	
(inches) Color (moist) %	Color (moist) %	Type¹ Loc²	Texture	Remarks
0-14 2.64412 951	0/18916 5	CFL	Loam	
14-20 2.65Y4/1 100	I S SIGN UNITED IN III		Loam	
	1			
			2.	
Type: C=Concentration, D=Depletion, RM=R				e Lining, M=Matrix.
ydric Soil Indicators: (Applicable to all Li				blematic Hydric Soils³:
Histosol (A1)	Polyvalue Below Surfa			
Histic Epipedon (A2)	Thin Dark Surface (S9		2 cm Muck (A	
Black Histic (A3) Hydrogen Sulfide (A4)	Loamy Mucky Mineral			c (F18) (outside MLRA 150A
Stratified Layers (A5)	Loamy Gleyed Matrix Depleted Matrix (F3)	(F2)		dplain Soils (F19) (LRR P, S,
Organic Bodies (A6) (LRR P, T, U)	Redox Dark Surface (E6)		ght Loamy Soils (F20)
5 cm Mucky Mineral (A7) (LRR P, T, U)	Depleted Dark Surface		Red Parent M	
Muck Presence (A8) (LRR U)	Redox Depressions (F			Dark Surface (TF12)
1 cm Muck (A9) (LRR P, T)	Marl (F10) (LRR U)	0)	Other (Explain	
Depleted Below Dark Surface (A11)	Depleted Ochric (F11)	(MLRA 151)	Cirici (Explain	iii i (emarka)
Thick Dark Surface (A12)	Iron-Manganese Mass		T) ³ Indicators of	hydrophytic vegetation and
Coast Prairie Redox (A16) (MLRA 150A)				drology must be present,
Sandy Mucky Mineral (S1) (LRR O, S)	Delta Ochric (F17) (M			urbed or problematic.
Sandy Gleyed Matrix (S4)	Reduced Vertic (F18)			
Sandy Redox (S5)	Piedmont Floodplain			
Stripped Matrix (S6)	Anomalous Bright Loa			
Dark Surface (S7) (LRR P, S, T, U)			24 8 25 10 5	
Restrictive Layer (If observed):		77		
Type:	<u>191111</u> 2			1
Depth (inches):			Hydric Soil Preser	nt? Yes 🔀 No
Remarks:				
				,
				,
				,
				•
				•
				•
				•
				•
				•



Wetland data point wsup014f_w facing northeast.



Wetland data point wsup014f_w facing southeast.

	DETERMINATION DATA F	ORM – Atlantic	and Gulf Coastal P	lain Region
Project/Site: ACP		City/County:	1 ffolk	Sampling Date: 09/15/15
Applicant/Owner: DOMINI	DN			Sampling Point: Wsup D14-u
Investigator(s): R TUVNDUII		Section, Township, I	Range: N/A	_ ouriping round
Landform (hillslope, terrace, etc.):	till slope	Local relief (concave	e, convex, none); Conce	ave Slope (%): 5-10
Subregion (LRR or MLRA): LRI	RT Lat: 36,1	66775	Long: -76.83431	Datum: MGS &
Soil Map Unit Name: Rains F				
Are climatic / hydrologic conditions on	,			
Are Vegetation, Soil, o				
Are Vegetation, Soil, o			needed, explain any answ	the state of the s
SUMMARY OF FINDINGS -	Attach site map showing		56 1854 - \$100 - 104.\$1 171	1 3071 200 - 0
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: Abnormally Dry C	Yes X No X Yes No X No X anditions (Based of	Is the Samp within a Wes	tland? Yes	
HYDROLOGY	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		7	
Wetland Hydrology Indicators:			Secondary Indi	cators (minimum of two required)
Primary Indicators (minimum of one	is required; check all that apply)			oil Cracks (B6)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Water-Stained Leaves (B9) Field Observations:	Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Coxidized Rhizosph Presence of Reduce Recent Iron Reduce Thin Muck Surface Other (Explain in Reduce)	(CT) (LRR U) (CH) (CH) (CH) (CH) (CH) (CH) (CH) (CH	Sparsely V Drainage F Moss Trim Dots (C3) Crayfish B C6) Saturation Geomorph Shallow Ad FAC-Neutri	regetated Concave Surface (B8) Patterns (B10) Lines (B16) In Water Table (C2) In Topic (C3) In Test (D3) In Moss (D8) (LRR T, U)
4 - 3 - 3 - 4 - 4 - 4 - 4 - 4 - 4 - 4 -	No _ Depth (inches): N/A	9	
	No _ Depth (inches			\/
Saturation Present? Yes (includes capillary fringe)	No _ Depth (inches	s):>ZO	Wetland Hydrology Pres	sent? Yes No _X
Describe Recorded Data (stream ga	auge, monitoring well, aerial phot	os, previous inspec	tions), if available:	
				li .
Remarks:				
72				
s ^{III}				,
T _S				

20.12054	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 X30 F4)	% Cover Species? Status	
1. none		Number of Dominant Species That Are OBL, FACW, or FAC: (A)
		marate obe, racvi, or rac (A)
2		Total Number of Dominant
3		Species Across All Strata: (B)
4.		Persont of Dominant Species 7
5		Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6		markie obe, raov, orrao (Ab)
7		Prevalence Index worksheet:
		Total % Cover of:Multiply by:
8		OBL species x 1 =
	= Total Cover	
50% of total cover:	20% of total cover:	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30 X 30 F4)		FAC species x 3 =
. 10.000		FACU species x 4 =
		UPL species x 5 =
2		Column Totals: (A) (B)
3		Column Totals: (A) (B)
4		Prevalence Index = B/A =
5		Hydrophytic Vegetation Indicators:
6		
		1 - Rapid Test for Hydrophytic Vegetation
7		2 - Dominance Test is >50%
8		3 - Prevalence Index is ≤3.01
9	= Total Cover	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of total cover:	
Herb Stratum (Plot size: 30x30ft)		11-11-11-11-11-11-11-11-11-11-11-11-11-
1. Phytolacca americana	20 Y FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
P. L. C.		
2. Rubus argutus	40 Y FAC	Definitions of Four Vegetation Strata:
3. Senecio hieracii Folius	20 Y FAC	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Arundinaria gigantea	5 N FACW	more in diameter at breast height (DBH), regardless of
5. Warmillinger Thereshop		height.
6		
7		than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8		Herb - All herbaceous (non-woody) plants, regardless
9		
10		
		Troody vine - All woody vines greater than 6.20 it in
11		height.
12		-
*	85 = Total Cover	
50% of total cover: 42	.5 20% of total cover: 17	
Woody Vine Stratum (Plot size: 30 X30 £+)		
1. Vitis rotundifolia	10 Y FAC	
	10 Y FAC	=
2		_
3		
4		
E		-
5	- W()	- Hydrophytic
_	= Total Cover	Vegetation Present? Yes No
50% of total cover:	20% of total cover: 2	Present? Yes No No
Remarks: (If observed, list morphological adaptations b	elow).	
(and the state of the state	212714	X
Vi I		
· · · · · · · · · · · · · · · · · · ·		
2 A		
10		
		1

epth	ription: (Describe to			lox Features				, , , , , , , , , , , , , , , , , , , ,
nches)	Color (moist)	%	Color (moist)		Type1 Lo	oc²	Texture	Remarks
1-8	2,514/2	100	lenger manager				Loam	
1-20	2.540/2	100				Ca	ndu-loam	V)
							0	
							-	
			•					
vpe: C=C	oncentration, D=Deple	etion, RM=Re	educed Matrix, I	MS=Masked S	Sand Grains.		² Location: PL=P	ore Lining, M=Matrix.
	Indicators: (Applica							oblematic Hydric Soils ³ :
Histosol	(A1)		Polyvalue B	Below Surface	(S8) (LRR	S, T, U)	1 cm Muck (/	A9) (LRR O)
	pipedon (A2)			Surface (S9) (A10) (LRR S)
Black Hi	istic (A3)			cky Mineral (F				rtic (F18) (outside MLRA 150A,E
	en Sulfide (A4)		Loamy Gle	yed Matrix (F.	2)		Piedmont Flo	oodplain Soils (F19) (LRR P, S, T
	d Layers (A5)		Depleted N					Bright Loamy Soils (F20)
	Bodies (A6) (LRR P,			k Surface (F6			(MLRA 15	
	ucky Mineral (A7) (LR		The same of the sa	ark Surface (Material (TF2)
	resence (A8) (LRR U)			ressions (F8)				v Dark Surface (TF12)
	uck (A9) (LRR P, T)		Marl (F10)				U Other (Expla	in in Remarks)
	d Below Dark Surface ark Surface (A12)	(A11)	-	Ochric (F11) (I anese Masse		0 0 0	3Indianters	of hydrophytic vegetation and
	rairie Redox (A16) (N	II RA 150A)		rface (F13) (L				nydrology must be present,
	Mucky Mineral (S1) (L			ic (F17) (MLF				sturbed or problematic.
	Gleyed Matrix (S4)			ertic (F18) (N		150B)	4,11000 41	otal boa of problematio.
•	Redox (S5)			Floodplain So			A)	
Stripped	d Matrix (S6)						149A, 153C, 153I	D)
Dark St	urface (S7) (LRR P, S	, T, U)						
estrictive	Layer (if observed):							
Type:			_					
Depth (ir	nches):	14.0 T00000 Lucian 1900 August					Hydric Soil Pres	ent? Yes No
emarks:								
							.9	
							2	
							-	
							-	
							-	



Upland data point wsup014_u facing northwest.



Upland data point wsup014_u facing southwest.

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region Sampling Date: 09 15 Project/Site: Applicant/Owner: Sampling Point: WSup013e Section, Township, Range: N/A Investigator(s): Landform (hillslope, terrace, etc.): Drainage Local relief (concave, convex, none): Con Cave Subregion (LRR or MLRA): ____ Soil Map Unit Name: Rains Fine sandy loam NWI classification: Are climatic / hydrologic conditions on the site typical for this time of year? Yes No ____ (If no, explain in Remarks.) Are Vegetation _______, Soil _______, or Hydrology ______ significantly disturbed? Are "Normal Circumstances" present? Yes Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area Hydric Soil Present? No within a Wetland? Wetland Hydrology Present? Remarks: Abnormally Dry conditions (Based on Sept. 15 Drought Monitor) HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) Aquatic Fauna (B13) Sparsely Vegetated Concave Surface (B8) High Water Table (A2) Marl Deposits (B15) (LRR U) Drainage Patterns (B10) Saturation (A3) Hydrogen Sulfide Odor (C1) Moss Trim Lines (B16) Water Marks (B1) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Sediment Deposits (B2) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Thin Muck Surface (C7) Geomorphic Position (D2) Iron Deposits (B5) Other (Explain in Remarks) Shallow Aguitard (D3) Inundation Visible on Aerial Imagery (B7) FAC-Neutral Test (D5) Water-Stained Leaves (B9) Sphagnum moss (D8) (LRR T, U) Field Observations: Surface Water Present? No Depth (inches): Water Table Present? No ____ Depth (inches): _ Saturation Present? __ Depth (inches): _ Wetland Hydrology Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

DAYZAFI	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 X 30ff) 1. None	% Cover Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC:3(A)
2		Total Number of Dominant Species Across All Strata: 3 (B)
4 5		Percent of Dominant Species That Are OBL, FACW, or FAC: 100 % (A/B)
6		Prevalence Index worksheet:
7		
8		
9	= Total Cover	FACW species x 2 =
50% of total cover:	20% of total cover:	FAC species x 2 =
Sapling/Shrub Stratum (Plot size: 30 x 30 ft)		
1. None		FACU species x 4 =
2		UPL species x 5 =
3		Column Totals: (A) (B)
4		Prevalence Index = B/A =
5		Hydrophytic Vegetation Indicators:
6		1- Rapid Test for Hydrophytic Vegetation
7		2 - Dominance Test is >50%
8		☐ 3 - Prevalence Index is ≤3.0¹
	() = Total Cover	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover:	20% of total cover:	Froblematic hydrophytic vegetation (Explain)
Herb Stratum (Plot size: 30 x 30++)		16.45.4
1. Typha latifolia	10 N OBL	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Rubus argutus	50 Y FAC	Definitions of Four Vegetation Strata:
3. Anundinaria gigantea	40 Y FACW	
4. Impatiens capensis	10 N FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
	40 Y OBL	more in diameter at breast height (DBH), regardless of height.
5. Persicaria sagittata	40 7 ODL	neight.
6		Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
9		And the state of t
10		Woody vine – All woody vines greater than 3.28 ft in
12.		height.
12.	150 = Total Cover	
50% of total cover: 1	5 20% of total cover: 30	
20 V 20 Ft	20% of total cover:	
Woody Vine Stratum (Plot size: 30 x 30 ft)		3
1. Mone		-
2		-
3		-
4		_
5		- Hydrophytic
	= Total Cover	Vegetation
50% of total cover:	20% of total cover:	Present? Yes No No
Remarks: (If observed, list morphological adaptations t		-
, and a second s		
>		

				h needed to docun			or confirm	the absence	of indicators.)	
Ype: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Ype: C=Concentration, D=Depletion, RM=Reduced Vertic (Fig.) (RR O, P, T) Ype: C=Concentration, D=Depletion, RM=Reduced Vertic (Fig.) (MLRA 150A, 150B) Ype: C=Concentration, D=Depletion, RM=Reduced Vertic (Fig.) (MLRA 150A, 150B) Ype: C=Concentration, D=Depletion, RM=Reduced Vertic (Fig.) (MLRA 150A, 150B) Ype: C=Concentration, D=Depletion, RM=Reduced Vertic (Fig.) (MLRA 150A, 150B) Ype: C=Concentration, D=Depletion, RM=Reduced Vertic (Fig.) (MLRA 150A, 150B) Ype: C=Concentration, D=Depletion, RM=Reduced Vertic (Fig.) (MLRA 150A, 150B) Ype: C=Concentration, D=Depletion, RM=Reduced Vertic (Fig.) (MLRA 150A, 150B) Ype: C=Concentration, D=Depletion, RM=Reduced Vertic (Fig.) (MLRA 150A, 150B) Ype: C=Concentration, MR=Reduced Vertic (Fig.) (MLRA 150A, 150B) Ype: C=Concentration, MR=Reduced Vertic (Fig.) (MLRA 150A, 150B) Ype: C=Concentration, MR=Reduced Verti	Depth (inches)	Matrix Color (moist)					Loc ²	Texture	Re	marks
Superior	0-4	10YR41						The same in the same of the sa	10077317	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. This cost (A)	4-8	10 Y 18 A/-	90	104R5110	10	0	Pl		Dining 1	
ydric Soll Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)	80-20	IDVR 41	90	11) VIREDITO	10	0	PI	5		
ydric Soll Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)	0 -0	10 11	1 10	10111711	10		1 -			
Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) wetland hydrology must be present, sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) unless disturbed or problematic. Sandy Gleyed Matrix (S4) Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) lestrictive Layer (If observed): Type: Depth (inches): Hydric Soil Present? Yes No	ydric Soll Ir Histosol (Histic Epi Black His Hydroger Stratified Organic I 5 cm Muck Muck Pre	ndicators: (Appl (A1) ipedon (A2) stic (A3) n Sulfide (A4) I Layers (A5) Bodies (A6) (LRR cky Mineral (A7) (esence (A8) (LRR ck (A9) (LRR P, 1	licable to all L R P, T, U) (LRR P, T, U) R U) T)	RRs, unless other Pofyvalue Be Thin Dark Su Loamy Muck Loamy Gleye Depleted Ma Redox Dark Depleted Dar Redox Depre	rwise note flow Surface (S9) y Mineral (ed Matrix (F3) Surface (F rk Surface essions (F LRR U)	ed.) ce (S8) (L (LRR S, (F1) (LRR F2) (6) (F7) (F7)	RR S, T, U T, U)	Indicators 1 cm N 2 cm N Reduce Piedme Anoma (MLF Red Pi Very S	for Problematic fuck (A9) (LRR 0 fuck (A10) (LRR 0 fuck (A10) (LRR 0 fuck (F18) (cont Floodplain So fuck (A153B) fuck (A153B) fuck (A153B) fuck (A153B) fuck (A153B) fuck (A153B)	Hydric Solls ³ : b) s) cutside MLRA 150A,B ils (F19) (LRR P, S, T) yy Solls (F20) c) ace (TF12)
Remarks:	Thick Da Coast Pr Sandy M Sandy G Sandy R Stripped Dark Sur Restrictive L	ark Surface (A12) rairie Redox (A16) flucky Mineral (S1) fleyed Matrix (S4) fledox (S5) Matrix (S6) rface (S7) (LRR F Layer (If observe) (MLRA 150A) (LRR O, S) P, S, T, U)	Iron-Mangan Umbric Surfa Delta Ochric Reduced Ve	ese Mass ace (F13) (F17) (MI rtic (F18) coodplain S	es (F12) ((LRR P, T LRA 151) (MLRA 15 (oils (F19)	LRR O, P, , U) 50A, 150B) (MLRA 14	wet unl (9A) (A 149A, 153C	tland hydrology mess disturbed or p	nust be present, problematic.
		ches):						Hydric Soi	Present? Yes	No
	₹									
								7		
w 2										



Wetland data point wsup013e_w facing south.



Wetland data point wsup013e_w facing southeast.

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region Sampling Date: 09 Project/Site: DOMINION Sampling Point: WSUP 013f-4 Applicant/Owner: Landform (hillslope, terrace, etc.): Drainage Local relief (concave, convex, none): Concave Subregion (LRR or MLRA): LRRT Soil Map Unit Name: Rains fine sands loam NWI classification: Are climatic / hydrologic conditions on the site typical for this time of year? Yes ___ No ___ (If no, explain in Remarks.) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? No Is the Sampled Area Hydric Soil Present? No Yes X No within a Wetland? Wetland Hydrology Present? Remarks: Abnormally Dry conditions (Based on Sept. 15 Drought Monidos) HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) Aquatic Fauna (B13) Sparsely Vegetated Concave Surface (B8) High Water Table (A2) Marl Deposits (B15) (LRR U) Drainage Patterns (B10) Saturation (A3) Hydrogen Sulfide Odor (C1) Moss Trim Lines (B16) Water Marks (B1) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Sediment Deposits (B2) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Thin Muck Surface (C7) Geomorphic Position (D2) Iron Deposits (B5) Other (Explain in Remarks) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) FAC-Neutral Test (D5) Water-Stained Leaves (B9) Sphagnum moss (D8) (LRR T, U) Field Observations: Surface Water Present? Water Table Present? Depth (inches): Saturation Present? Wetland Hydrology Present? Yes Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

20.430	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 30 x30) 1. Magnalia virginiana	% Cover	Species?	Status FACW	Number of Dominant Species That Are OBL, FACW, or FAC:	(A)
2. Tier opara	30	Yes Yes	FAC	Total Number of Dominant Species Across All Strata:	(B)
4				Percent of Dominant Species That Are OBL, FACW, or FAC:	0(A/B)
6				Prevalence Index worksheet:	
7				Total % Cover of: Multip	ly by:
3.	100	= Total Cov		OBL species x 1 =	
50				FACW species x 2 =	
50% of total cover: 50	20% 0	f total cover		FAC species x 3 =	
Sapling/Shrub Stratum (Plot size: 20x30)	40	Vac	FACW	FACU species x 4 =	
				UPL species x 5 =	
3.				Column Totals: (A)	(B)
				Prevalence Index = B/A =	
5				Hydrophytic Vegetation Indicators:	
5				1 - Rapid Test for Hydrophytic Vege	etation
7				2 - Dominance Test is >50%	
3	- 110			3 - Prevalence Index is ≤3.01	
2		= Total Co		Problematic Hydrophytic Vegetation	n¹ (Explain)
50% of total cover: _ Z	20% 0	f total cove	r: <u>8</u>		
Herb Stratum (Plot size: 30 × 30)	40	Yes	OBI	¹ Indicators of hydric soil and wetland hy be present, unless disturbed or problem	drology must
2. Arundinaria aigantea	20		FACW		
3	100	0119-0			
4				Tree – Woody plants, excluding vines, more in diameter at breast height (DBH height.	
56				Sapling/Shrub - Woody plants, exclud	ding vines, less
7 8				than 3 in. DBH and greater than 3.28 ft Herb – All herbaceous (non-woody) pla	
9				of size, and woody plants less than 3.2	8 ft tall.
10				Woody vine – All woody vines greater height.	than 3.28 ft in
12.					
	60	= Total C	over		
50% of total cover: 3	20%	of total cove	er: 12		
Woody Vine Stratum (Plot size: 30130)					
1. Smilax notundatolia	10	Yes	FAC		
2.					
3					
4.				-	
5.				-	
	10	_ = Total C	over	- Hydrophytic Vegetation	
50% of total cover:	_		_	Present? Yes No	
Remarks: (If observed, list morphological adaptations by		OI total cov	· CI.	<u>- 120 a a a a a a a a a a a a a a a a a a a</u>	
Remarks. (III observed, list morphological adaptations be	elow).				
il a					

Profile Description: (Describe to the dept	h needed to document the indicator or confirm	the absence of indicators.)
Depth Matrix (inches) Color (moist) %	Redox Features Color (moist) % Type¹ Loc²	
0-16 10/R 2/1 100	Color (moist) 76 Type Eoc	
10 110 1100		Loam
16-20 104R31 100		Loam
Type: C=Concentration, D=Depletion, RM=		² Location: PL=Pore Lining, M=Matrix.
Hydric Soll Indicators: (Applicable to all	- " <u>" </u>	Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Polyvalue Below Surface (S8) (LRR S, T, U	
Histic Epipedon (A2)	Thin Dark Surface (S9) (LRR S, T, U)	2 cm Muck (A10) (LRR S)
Black Histic (A3)	Loamy Mucky Mineral (F1) (LRR O)	Reduced Vertic (F18) (outside MLRA 150A,B)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Piedmont Floodplain Soils (F19) (LRR P, S, T)
Stratified Layers (A5)	Depleted Matrix (F3)	Anomalous Bright Loamy Soils (F20)
Organic Bodies (A6) (LRR P, T, U) 5 cm Mucky Mineral (A7) (LRR P, T, U)	Redox Dark Surface (F6) Depleted Dark Surface (F7)	(MLRA 153B)
Muck Presence (A8) (LRR U)	Redox Depressions (F8)	☐ Red Parent Material (TF2) ☐ Very Shallow Dark Surface (TF12)
1 cm Muck (A9) (LRR P, T)	Mari (F10) (LRR U)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Ochric (F11) (MLRA 151)	office (Explain in Nemarks)
Thick Dark Surface (A12)	Iron-Manganese Masses (F12) (LRR O, P,	T) Indicators of hydrophytic vegetation and
	Umbric Surface (F13) (LRR P, T, U)	wetland hydrology must be present,
Sandy Mucky Mineral (S1) (LRR O, S)	Delta Ochric (F17) (MLRA 151)	unless disturbed or problematic.
Sandy Gleyed Matrix (S4)	Reduced Vertic (F18) (MLRA 150A, 150B)	
Sandy Redox (S5)	Piedmont Floodplain Soils (F19) (MLRA 14	
Stripped Matrix (S6)	Anomalous Bright Loamy Soils (F20) (MLR	RA 149A, 153C, 153D)
Dark Surface (S7) (LRR P, S, T, U)		
Restrictive Layer (if observed):		
Туре:		
Depth (inches):		Hydric Soil Present? Yes No
Remarks:		A
	1	
		1
46/00/00		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		



Wetland data point wsup013f_w facing north.



Wetland data point wsup013f_w facing west.

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region _ Sampling Date: 09/19/19 Project/Site: ___ Applicant/Owner: DOM INION Section, Township, Range: N/A Investigator(s): R. TWY hbull Landform (hillslope, terrace, etc.): HILLSTOPE Local relief (concave, convex, none): Concave Slope (%): 4-10 Subregion (LRR or MLRA): _ LRRT Lat: 36.66792 Long: -76.83229 Soil Map Unit Name: Rains Fine sandy loam NWI classification: N/A No ____ (If no, explain in Remarks.) Are climatic / hydrologic conditions on the site typical for this time of year? Yes ____ Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes 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: Abnormally Dry conditions (Based on Sept. 15 Drought Monitor) HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) Aquatic Fauna (B13) Sparsely Vegetated Concave Surface (B8) High Water Table (A2) Marl Deposits (B15) (LRR U) Drainage Patterns (B10) Saturation (A3) Hydrogen Sulfide Odor (C1) Moss Trim Lines (B16) Water Marks (B1) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Sediment Deposits (B2) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Thin Muck Surface (C7) Geomorphic Position (D2) Iron Deposits (B5) Other (Explain in Remarks) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) FAC-Neutral Test (D5) Water-Stained Leaves (B9) Sphagnum moss (D8) (LRR T, U) Field Observations: Yes ____ No __ Depth (inches): ___ Surface Water Present? Yes No Depth (inches): Water Table Present? Saturation Present? Yes ____ No _ Depth (inches): _ Wetland Hydrology Present? Yes ____ No _ (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

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

	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 × 30 FJ.)	% Cover Species? Status	
1. none		That Are OBL, FACW, or FAC:
2		The second secon
3		Total Number of Dominant Species Across All Strata: (B)
4		refeelt of bolilliant Species
5		Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6		Prevalence Index worksheet:
7		
8		Total % Cover of;Multiply by;
	= Total Cover	OBL species x 1 =
50% of total cover:	20% of total cover:	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30x30f+)		FAC species x 3 =
1 1000		FACU species x 4 =
		UPL species x 5 =
2		Column Totals: (A) (B)
3		
4		Trevalence mack birt
5		Hydrophytic Vegetation Indicators:
6,		1 Rapid Test for Hydrophytic Vegetation
7		- 2 - Dominance Test is >50%
8		
.()	Ø = Total Cover	- 3 - Prevalence Index is ≤3.01
F00/ of total account	20% of total cover:	Problematic Hydrophytic Vegetation ¹ (Explain)
Herb Stratum (Plot size: 30 × 30) f+	20% of total cover:	-
Herb Stratum (Plot size:	40 Yes OBL	Indicators of hydric soil and wetland hydrology must
1. Persicaria sagittata		
2. Rubus argutus	50 Yes FAC	
3. Phitologia americana	20 NO FACU	1
4. Onoclea consibilis		TI I ree - Woody plants excluding vines 3 in 17 6 cm) or
그 그 그 이 이 경기를 다 있다면 그 것이 없는 것이 없는 것이 없는 것이 없었다면 하지만 하지만 하지만 하지만 하지만 하다면		height.
5.		-
6		
7		than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8		- Herb - All herbaceous (non-woody) plants, regardless
9.		
10		
		voody ville - All woody villes greater than 3.25 it in
11		_ height.
12	110	-
	= Total Cover	
	51-5 20% of total cover: 23	_
Woody Vine Stratum (Plot size: 30 x 30 ft)		
1. VITIC rotundifolia	10 Yes FAC	
2		7
		-
3		-
4		_
5		- Hydrophytic
	O = Total Cover	Venetation
50% of total cover	5 20% of total cover: 2	Present? Yes No
Remarks: (If observed, list morphological adaptations	below).	
V		

	WS	UP	0	3_	4
ampling					

	cription: (Describe to the depth			m the absence of indicators.)
Depth (inches)	Matrix Color (moist) %	Redox Feati	res Loc²	Texture Remarks
0-20	104R 4/2 100	Color (Illoist) 76	Type Loc	
0 20	10 112 100			SL MAN
			Teathern and the	
		·		
	oncentration, D=Depletion, RM=F			² Location: PL=Pore Lining, M=Matrix.
	Indicators: (Applicable to all L			Indicators for Problematic Hydric Soils ³ :
Histosol			ırface (S8) (LRR S, T,	
	pipedon (A2)	Thin Dark Surface		2 cm Muck (A10) (LRR S)
	istic (A3) en Sulfide (A4)	Loamy Mucky Mine		Reduced Vertic (F18) (outside MLRA 150A,B)
	d Layers (A5)	Loamy Gleyed Mat		Piedmont Floodplain Soils (F19) (LRR P, S, T)
	Bodies (A6) (LRR P, T, U)	Redox Dark Surfac		
	ucky Mineral (A7) (LRR P, T, U)	Depleted Dark Surf		Red Parent Material (TF2)
	resence (A8) (LRR U)	Redox Depressions		Very Shallow Dark Surface (TF12)
☐ 1 cm M	uck (A9) (LRR P, T)	Marl (F10) (LRR U		Other (Explain in Remarks)
	ed Below Dark Surface (A11)	Depleted Ochric (F		0 0 13
	ark Surface (A12)		asses (F12) (LRR O, I	
	Prairie Redox (A16) (MLRA 150A)			wetland hydrology must be present,
Sandy	Mucky Mineral (S1) (LRR O, S) Gleyed Matrix (S4)	Delta Ochric (F17)		unless disturbed or problematic.
	Redox (S5)		8) (MLRA 150A, 150) in Soils (F19) (MLRA	
	d Matrix (S6)			LRA 149A, 153C, 153D)
	urface (S7) (LRR P, S, T, U)	·oa.a ag	200111) 00110 (1 20) (1112	- 140A, 1000, 100D,
	Layer (if observed):			
Type:				\ .
Depth (it	nches):			Hydric Soil Present? Yes No _X_
Remarks:				
				A
				Y
				21
L.				



Upland data point wsup013_u facing southwest.



Upland data point wsup013_u facing west.

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: ACP	City/County: SUFFOIK Sampling Date: 12/9/	15
Applicant/Owner: Dominion	State: VA Sampling Point: W5up 02	be-
	Section, Township, Range: NA	
	Local relief (concave, convex, none): On CAVE Slope (%): O	-2
Landform (hillslope, terrace, etc.):		
Subregion (LRR or MLRA): LRRT Lat: 36.	0 = 40	0 6
Soil Map Unit Name: Levy Silty Clay War	NWI classification: PENT	
Are climatic / hydrologic conditions on the site typical for this time of year	ar? 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 pro	oblematic? (If needed, explain any answers in Remarks.)	
SUMMARY OF FINDINGS - Attach site map showing	sampling point locations, transects, important features,	tc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: Yes No	Is the Sampled Area within a Wetland? Yes No	
HYDROLOGY		٠,١
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two require	9)
Primary Indicators (minimum of one is required, check all that apply)		,
Surface Water (A1) Aquatic Fauna (B1 High Water Table (A2) Marl Deposits (B15	· ·	'
Saturation (A3) Hydrogen Sulfide C	<u> </u>	
	eres along Living Roots (C3) Dry-Season Water Table (C2)	
Sediment Deposits (B2) Presence of Reduc		
	tion in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)	
Algal Mat or Crust (B4) Thin Muck Surface	(C7) Geomorphic Position (D2)	
Jron Deposits (B5) Other (Explain in R	emarks) Shallow Aquitard (D3)	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)	1
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)	
Field Observations:	4"	
Surface Water Present? YesNo Depth (inches	1: 111/50/0	
	SUVFOCE	
Saturation Present? Yes No Depth (inches (includes capillary fringe)	: Surface Wetland Hydrology Present? Yes No	-
Describe Recorded Data (stream gauge, monitoring well, aerial photo	s, previous inspections), if available:	
		-
Remarks:		

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

2 (1170 61	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 3054 X305+) 1. \(\int \) \(\text{O} \) \(\text{P} \) \(\text{P} \) \(\text{P} \)		Species?		Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant Species Across All Strata: (B)
4				
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 10090 (A/B)
6 7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
0,	0	= Total Co	/Dr	OBL species x 1 =
50% of total cover:				FACW species x 2 =
Sapling/Shrub Stratum (Plot size 3084 X3064)	20% 01	total cover		FAC species x 3 =
1. Cephalanthus occidentali	550	V	OBL	FACU species x 4 =
		N	FAC	UPL species x 5 =
2. Acer rubram 3. Taxodium distichum	3	7	OBL	Column Totals: (A) (B)
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.01
		= Total Co		Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 3	20% of	total cover	12	
Herb Stratum (Plot size: 308+ X308+) 1. Panicum SP.	20	N	UNK	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. TUNCUS REEUSUS	5	N	OBL	Definitions of Four Vegetation Strata:
3. Avandinario gigonten	45	-	FACW	Demillions of Four Vegetation Strata.
	20	N		Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Saccharum giganteum 5. Persicaria sagittata	20	-14	OBL	more in diameter at breast height (DBH), regardless of height.
		01		
6. Eurotorium capillifolium	-	- 17	FACU	Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7. Rubus argutus				
8 9				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10				Woody vine - All woody vines greater than 3.28 ft in
11				height.
12				
	112	= Total Co	/er	
50% of total cover: 56	20% of		22.4	
Woody Vine Stratum (Plot size: 3064 X 3084)				
1. Lunicera japonica	1	N	FACU	
2. Smilax rotundisolia	10	4	FAC	
3.				
4				
5				
3	11	= Total Co		Hydrophytic Vegetation
50% of total cover: 5.5		total cover		Present? Yes No
Remarks: (If observed, list morphological adaptations belo				
Tremarks. (II observed, list ma photogreat adaptations bere	, w).			

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of Indicators.)							
Depth Matrix (inches) Color (moist) %	Color (moist)	x Features %	Type	Loc²	Texture	Remarks	
(inches) Color (moist) % 0-4 104R3/2 100	Coo (most)		Турс	200	L	THE	
H-17 104R 5/1 90	104R5/6	10		PI	SCL		
10-11-0/1		70	_	00	66		
12-20 2.546/2 80	2.545/6	20		///	24		
						_	
In a contract Description Date	-Dadward Matrix MG	- Markad S		-	21 position: E	PL=Pore Lining, M=Matrix.	
¹ Type: C=Concentration, D=Depletion, RM Hydric Soil Indicators: (Applicable to all	I RRs unless other	wise noted	and Grai	ins.		or Problematic Hydric Soils ³ :	
Histosol (A1)	Polyvalue Be			RESTU		ick (A9) (LRR O)	
Histic Epipedon (A2)	Thin Dark Su					ick (A10) (LRR S)	
Black Histic (A3)	Loamy Mucky					d Vertic (F18) (outside MLRA 150A,B)	
Hydrogen Sulfide (A4)	Loamy Gleye	d Matrix (F2	2)			nt Floodplain Soils (F19) (LRR P, S, T)	
Stratified Layers (A5)	Depleted Mat					ous Bright Loamy Soils (F20)	
Organic Bodies (A6) (LRR P, T, U)	Redox Dark S				1.5	A 153B) ent Material (TF2)	
5 cm Mucky Mineral (A7) (LRR P, T, U Muck Presence (A8) (LRR U)	Depleted Dar Redox Depre					allow Dark Surface (TF12)	
1 cm Muck (A9) (LRR P, T)	Marl (F10) (L					Explain in Remarks)	
Depleted Below Dark Surface (A11)	Depleted Oct	The state of the s	ILRA 151	1)	_		
Thick Dark Surface (A12)	Iron-Mangan	ese Masses	(F12) (L	RR O, P,		tors of hydrophytic vegetation and	
Coast Prairie Redox (A16) (MLRA 150				U)		and hydrology must be present,	
Sandy Mucky Mineral (S1) (LRR O, S)				A 450E)	unies	ss disturbed or problematic.	
Sandy Gleyed Matrix (S4) Sandy Redox (S5)	Reduced Ver Piedmont Flo				9.4)		
Stripped Matrix (S6)					A 149A, 153C,	153D)	
Dark Surface (S7) (LRR P, S, T, U)	_			, (
Restrictive Layer (if observed):							
Туре:							
Depth (inches):					Hydric Soll F	Present? Yes No	
Remarks:						3.0 30.00	



Wetland data point wsup026e_w facing northeast.



Wetland data point wsup026e_w facing southwest.

Photo Sheet 1 of 3

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: A CP Applicant/Owner: Dominion Investigator(s): EST-M-Son(th, K.MurPhrey Section Landform (hillslope, terrace, etc.): Depression Local Subregion (LRR or MLRA): LRRT Lat: 36.665 Soil Map Unit Name: Levy sity clay 10000 Are climatic / hydrologic conditions on the site typical for this time of year? Y Are Vegetation, Soil, or Hydrology significantly distured are Vegetation, Soil, or Hydrology naturally problems.	State: V4 Sampling Point: W34 P V4 Sampling Po
SUMMARY OF FINDINGS - Attach site map showing same	ipling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks:	Is the Sampled Area within a Wetland? YesNo
Beaver pond	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15) (LRI	R U) Drainage Patterns (B10)
Saturation (A3) Hydrogen Sulfide Odor (
Water Marks (B1) Oxidized Rhizospheres a	long Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Reduced Iro	n (C4) Crayfish Burrows (C8)
Drift Deposits (B3) Recent Iron Reduction in	Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface (C7)	Geomorphic Position (D2)
Iron Deposits (B5) Other (Explain in Remark	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	11
Surface Water Present? Yes No Depth (inches):	
Water Table Present? YesNo Depth (inches):	- 11
Saturation Present? Yes No Depth (inches):	Wetland Hydrology Present? Yes No
(includes capillary fringe)	in the state of th
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available.
Remarks:	

2-6142-61	Absolute			Dominance Test worksheet:
1. ACCV rub(un)	% Cover 30	Species?	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2. Liquidambor Styrociflua 3.	20		FAC	Total Number of Dominant Species Across All Strata: (B)
5				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8				OBL species x 1 =
		= Total Cov		The state of the s
50% of total cover: 25	20% of	total cover	10	FACW species x 2 =
Sapling/Shrub Stratum (Plot size 30F+X30F+)				FAC species x 3 =
1. Flex oraco	25	\rightarrow	FAC	FACU species x 4 =
2. Liquistrum sinense	25	4	FAC	UPL species x 5 =
3. Carpinus caroliniana		4	FAC	Column Totals: (A) (B)
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6.				1-Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test Is >50%
8				3 - Prevalence Index is ≤3.01
	75	= Total Cov	er	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 37.	5 20% of	total cover	15	_
Herb Stratum (Plot size: 308+ X308+) 1. WOOdwardia Viva: aica	10	N	OBL	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Woodwardie areolata		7	OBL	Definitions of Four Vegetation Strata:
3		-/-		
4.				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
				height.
5				
6				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8 9				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12	710			
	40	= Total Cov	er	
50% of total cover:	20% of	total cover	12	
Woody Vine Stratum (Plot size: 3084 X 3084	year			
1. Lonicera japonica		N	FACU	
2 Smilax rotandifolia.	.5	N	FAC	
3. Vitis rotandifolia	50	Y	FAC	
4 Gelsemium sempervivens	5	N	FAC	
5	65			Hydrophytic
71	,	= Total Co	10	Vegetation Present? Yes No
50% of total cover: 50%	<u>)</u> 20% of	total cover	()	
Remarks: (If observed, list morphological adaptations belo	ow).			

Profile Des	cription: (Describe	to the depth	needed to docur	nent the	Indicator	or confirm	the absence	of Indicators.		
Depth	Matrix			x Feature						
(inches)	Color (moist)	<u>%</u> _	Color (moist)	%	Type	_Loc2_	Texture_		Remarks	
0-1	104R4/1	100	- 11							
1-10	2.546/2	90	04R5/6	10			LS			
10-20	104R5/1	80	10GR4/6	20	C	PL	SL			
10 0.0	1-01-		1-3/1- 7			-				
				- —						
¹Type: C=C	concentration, D=Dep	letion RM=	Reduced Matrix, M	S=Masker	d Sand Gr	ains.	² Location:	PL=Pore Linin	g, M=Matrix	
	Indicators: (Applic							for Problema		
Histoso			Polyvalue Be			.RR S. T. U		Muck (A9) (LRR		
	pipedon (A2)		Thin Dark Su					Muck (A10) (LR		
- Total (0.00)	listic (A3)		Loamy Muck				Reduc	ced Vertic (F18)	(outside M	LRA 150A,B)
Hydrog	en Sulfide (A4)		Loamy Gleye	ed Matrix ((F2)			nont Floodplain		
	d Layers (A5)		✓ Depleted Ma					alous Bright Lo	amy Soils (F	(20)
	Bodies (A6) (LRR P		Redox Dark					RA 153B)	TEOL	
	ucky Mineral (A7) (LI		Depleted Da					Parent Material (Shallow Dark Su		,,
	resence (A8) (LRR L)	Redox Depre		0)			(Explain in Ren		-,
	uck (A9) (LRR P, T) d Below Dark Surfac	e (A11)	Depleted Oc		(MLRA 1	51)	_ 0.1101	(Explain in No.	iuins)	
	ark Surface (A12)	C (A11)	Iron-Mangan		•		T) ³ Indi	cators of hydrop	hytic veget	ation and
	Prairie Redox (A16) (I	MLRA 150A						tland hydrology	must be pre	esent,
Sandy	Mucky Mineral (S1) (LRR O, S)	Delta Ochric	(F17) (MI	LRA 151)		uni	less disturbed o	r problemat	ic.
Sandy	Gleyed Matrix (S4)		Reduced Ve		•					
	Redox (S5)		Piedmont Flo					45001		
	d Matrix (S6)		Anomalous I	Bright Loa	my Soils (F20) (MLR	A 149A, 1530	c, 153D)		
	urface (S7) (LRR P,						Т			
	Layer (if observed)								/	
Type:							Undel a Cal	I Branant? V	es	No
	nches):						Hydric Soi	I Present? Y	es	MO
Remarks:										
1										



Wetland data point wsup026f_w facing northwest.



Wetland data point wsup026f_w facing southwest.

Photo Sheet 2 of 3

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: ACP City	County: 5USFOIK Sampling Date: 12/9/15
Applicant/Owner: Dominion	Sampling Date: WSUP 02 last
	State: Sampling Point: WSup 026-L
Investigator(s): EST-M.5m.+h, K.Murphrey Sec	
Landform (hillslope, terrace, etc.): WillSlope Loca	al relief (concave, convex, none): Convex Slope (%)
Subregion (LRR or MLRA): LRRT Lat: 36.668	45 Long: -76.82336 Datum: W65 8
Soil Map Unit Name: Levy Sity Clay loam	NV/I classification:
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 distu	urbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally problem	natic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sa	mpling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	
	Is the Sampled Area
Hydric Soil Present? Wetland Hydrology Present? Yes No No No	within a Wetland? Yes No
Remarks:	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15) (LR	
Saturation (A3) Hydrogen Sulfide Odor	
Water Marks (B1) Oxidized Rhizospheres	along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Reduced In	on (C4) Crayfish Burrows (C8)
Drift Deposits (B3) Recent Iron Reduction is	
Algal Mat or Crust (B4) Thin Muck Surface (C7)	
Iron Deposits (B5) Other (Explain in Remark	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9) Field Observations:	Sphagnum moss (D8) (LRR T, U)
^	VA I
Surface Water Present? Yes No Depth (inches): Yes No Depth (inches): Yes Depth (inches):	
Saturation Present? Yes No Depth (inches):	
(includes capillary fringe)	Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pri	evious inspections), if available:
Remarks:	
Netralks.	
the same that	

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

2361/2371	Absolute Domir	ant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size 308+ X308+)	% Cover Spec		Number of Dominant Species
1. Platanus occidentalis	20 7	FACW	That Are OBL, FACW, or FAC: (A)
2. Pinus tarda	15 Y	FAC	Total Number of Dominant
3. Liquidambar Styraci & Lua	20 4	FAC	Total Number of Dominant Species Across All Strata: (B)
4	,		
5			Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
			That Are OBL, FACW, or FAC:
6			Prevalence Index worksheet:
7			Total % Cover of: Multiply by:
8			OBL species x 1 =
	55 = Total	1.1	FACW species x 2 =
50% of total cover: 27.	5 20% of total co	over:ll	1
Sapling/Shrub Stratum (Plot size: 306+ X 306+			FAC species x 3 =
1. Itex opaca	10 7	FAC	FACU species x 4 =
2. Liquistrum sinense	5 Y	FAC	UPL species x 5 =
3. Carpinus carpliniana	10	FAC	Column Totals: (A) (B)
	10 1	<u> </u>	
			Prevalence Index = B/A =
5			Hydrophytic Vegetation Indicators:
6			1_Rapid Test for Hydrophytic Vegetation
7			2 - Dominance Test is >50%
8.	100 to		3 - Prevalence Index is ≤3.0¹
	25 = Total	Cover	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 12.			Problematic Hydrophytic Vegetation (Explain)
Herb Stratum (Plot size 3084 X3084)	20 % Of total Ct		
Herb Stratum (Plot size: 500 1 7 500 1)	5 N	FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. Avundinaria gigantea	10 1		
2. POtentilla simplex	10 7	FACU	Definitions of Four Vegetation Strata:
3. Phytolacia omericano	5 N	FACU	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Allium canadense	5 N	FACU	more in diameter at breast height (DBH), regardless of
5. MUDOCWArdia aveclata	5 N	OBL	height.
6.			Sapling/Shrub - Woody plants, excluding vines, less
7.			than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8			Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
9			of size, and woody plants less than 5.20 it tall.
10			Woody vine - All woody vines greater than 3.28 ft in
11			height.
12			
	30 = Total	Cover	
50% of total cover: 15	20% of total co		
Woody Vine Stratum (Plot size 3084 X3084)			
1. Lonicera Japonica	20 Y	FACU	
2 VITIS Dotandisolia	75 V	FAC	
	10 0		
3. Berchemia scandens	10 7	FAC	
4			192
5			Hydrophytic
	50 = Total	Cover	Vegetation
50% of total cover: 2.5	20% of total co		Present? Yes No
Remarks: (If observed, list morphological adaptations belo			
Remarks. (II observed, list morphological adaptations ben	OW).		
			200000000000000000000000000000000000000

	cription: (Describe to the de			or or confirm	n the absence of	indicators.)
Depth (inches)	Matrix Color (moist) %	Color (moist)	x Features % Type	Loc ²	Texture	Remarks
0-10	2.546/4 100				FSL	
10-14	2.545/3 100				SCL	
14-20	2.544/2 98	104R4/6	2 (PI	SIL	
14-40	1.54712 10	1098716			DCL	
						<u> </u>
¹Type: C=C	oncentration, D=Depletion, RM	=Reduced Matrix, M	S=Masked Sand	Grains.	² Location: P	L=Pore Lining, M=Matrix.
	Indicators: (Applicable to a					r Problematic Hydric Solis ³ :
Histosol			elow Surface (S8)	(LRR S, T, I	J) 1 cm Mu	ck (A9) (LRR O)
_	pipedon (A2)		urface (S9) (LRR		2 cm Mu	ck (A10) (LRR S)
Black H	istic (A3)	Loamy Muck	cy Mineral (F1) (L	RR O)		Vertic (F18) (outside MLRA 150A,B)
	en Sulfide (A4)		ed Matrix (F2)			t Floodplain Soils (F19) (LRR P, S, T)
_	d Layers (A5)	Depleted Ma				us Bright Loamy Soils (F20)
	Bodies (A6) (LRR P, T, U)		Surface (F6)		(MLRA	
_	ucky Mineral (A7) (LRR P, T, l resence (A8) (LRR U)	Depleted Da Redox Depr	rk Surface (F7)			ent Material (TF2) llow Dark Surface (TF12)
	uck (A9) (LRR P, T)	Marl (F10) (I				plain in Remarks)
	d Below Dark Surface (A11)		chric (F11) (MLRA	151)		,
	ark Surface (A12)		nese Masses (F12		T) ³ Indicat	ors of hydrophytic vegetation and
Coast P	rairie Redox (A16) (MLRA 15	A) Umbric Surfa	ace (F13) (LRR P	T, U)		nd hydrology must be present,
Sandy N	Mucky Mineral (S1) (LRR O, S		(F17) (MLRA 15			s disturbed or problematic.
	Gleyed Matrix (S4)		rtic (F18) (MLRA			
	Redox (S5)		oodplain Soils (F1			£2D)
	Matrix (S6)	Anomalous	Bright Loamy Soil	5 (F2U) (WILF	(A 149A, 153C, 1	530)
	rface (S7) (LRR P, S, T, U) Layer (if observed):				T	
Type:	zayor (m observed).					
	ches):				Hydric Soll P	resent? Yes No
Remarks:	Cites).				Tiyano dan t	
Remarks.						



Upland data point wsup026_u facing northeast.



Upland data point wsup026_u facing southwest.

Photo Sheet 3 of 3

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region Project/Site: ACP Applicant/Owner: Dom (n'on Investigator(s): ESI-M, SM, Th, K, MU (Phrey Section, Township, Range: NA Landform (hillslope, terrace, etc.): DEP(ESSION Local relief (concave, convex, none): CONCOVE Slope (%): Subregion (LRR or MLRA): LRR T Lat: 36.66765 Long: 76.81896 Soil Map Unit Name: Rains Fine Sondy warm 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? (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 Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Remarks: HYDROLOGY Secondary Indicators (minimum of two required) Wetland Hydrology Indicators: __ Surface Soil Cracks (B6) Primary Indicators (minimum of one is required; check all that apply) Sparsely Vegetated Concave Surface (B8) ___ Aquatic Fauna (B13) Surface Water (A1) __ Drainage Patterns (B10) ___ Marl Deposits (B15) (LRR U) High Water Table (A2) — Hydrogen Sulfide Odor (C1) Moss Trim Lines (B16) Saturation (A3) Dry-Season Water Table (C2) Oxidized Rhizospheres along Living Roots (C3) Water Marks (B1) Cravfish 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) __ Thin Muck Surface (C7) Geomorphic Position (D2) Algal Mat or Crust (B4) Shallow Aquitard (D3) Iron Deposits (B5) Other (Explain in Remarks) ___ FAC-Neutral Test (D5) _ Inundation Visible on Aerial Imagery (B7) Sphagnum moss (D8) (LRR T, U) Water-Stained Leaves (B9) Field Observations: Depth (inches): Surface Water Present? Depth (inches): _ Water Table Present? Depth (inches): SUIFACE Wetland Hydrology Present? Yes 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.

0 - 1/0 - 11	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: SUFT X BUFT)		Species?		Number of Dominant Species
1. none present				That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Species Across All Strata: (B)
4				Percent of Dominant Species
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 67% (A/B)
6.				
7.				Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
		= Total Cov	er	OBL species x 1 =
50% of total cover:				FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30 FT X 30 FT)	207001	total cover		FAC species x 3 =
1. Pinus Laeda	1	N	FAC	FACU species x 4 =
2 Ollerius Phellos	1	N	FALW	UPL species x 5 =
3. SAMBUEUS NIGRA	20	-	FACIN	Column Totals: (A) (B)
	90	$\overline{}$	11100	
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1 Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8	00			3 - Prevalence Index is ≤3.01
		= Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of	total cover	4.4	
Herb Stratum (Plot size: 308+X308+5	~ ~)	1	-0 -101	¹ Indicators of hydric soil and wetland hydrology must
1. Avundinaria gigantea	20	N	FACW	be present, unless disturbed or problematic.
2. Allium cernuum	10	N	FACU	Definitions of Four Vegetation Strata:
3. Microstegium vimineum	50	Y	PAC	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Persicario SP.	5	N	UNK.	more in diameter at breast height (DBH), regardless of
5. Buphmeria cylindrica	10	N	FACW	height.
6. Symphyotrichum dumosum	5	N.	OBL	Sapling/Shrub - Woody plants, excluding vines, less
7. NUDriwardia areolata	5	N	OBL	than 3 in. DBH and greater than 3.28 ft (1 m) tall.
В				Mark All had a serve (and wearts) plants regardless
				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
9				187.1. Luc 10
10	about the serious states			Woody vine – All woody vines greater than 3.28 ft in
11				height.
12	Inc		-	
5)		= Total Cov		¥
50% of total cover: 52.	20% of	total cover	011	
Woody Vine Stratum (Plot size 3051 X 3054)	10	\/	FOCIA	
1. Lonicera japonica	10		FACU	e
2				
3				
4.				
5.				Hydrophytic
	10	= Total Cov	rer	Vegetation
50% of total cover:			_	Present? Yes No
Remarks: (If observed, list morphological adaptations belo				
manusina. (ii assarras) nacina piranagian kaupukiais sala				
22 2 2 2				

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



Wetland data point wsup025e_w facing northwest.



Wetland data point wsup025e_w facing southeast.

Photo Sheet 1 of 3

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

1.0	5,5601K 2113/9/15
Project/Site: ACP City/C	ounty: SUFFOIK Sampling Date: 12/9/15
Applicant/Owner: Dominion	State: Sampling Point, vo
Investigator(s): EST-M. Smith, K. Murphrey Section	in, Township, Range: N A
Landform (hillslope, terrace, etc.): Hoodplain Local	relief (concave, convex, none): (Uncave Slope (%): U-2
Subregion (LRR or MLRA): LRRT Lat: 36.667	64 Long: -76, 81936 Datum: W65 S
Soil Map Unit Name: Rains Fine Sondy Warn	NWI classification: PFO
Are climatic / hydrologic conditions on the site typical for this time of year? You	
Are Vegetation, Soil, or Hydrology significantly disturb	
Are Vegetation, Soil, or Hydrology naturally problema	tic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	
Hydric Soil Present? Yes No	Is the Sampled Area within a Wetland? Yes No
Wetland Hydrology Present? Yes No No	within a Wetland? Yes No
Remarks:	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15) (LRR	
Saturation (A3) Hydrogen Sulfide Odor (C	
Water Marks (B1) — Oxidized Rhizospheres al	•
Sediment Deposits (B2) Presence of Reduced Iron	
Drift Deposits (B3) Recent Iron Reduction in	
Algal Mat or Crust (B4) Thin Muck Surface (C7)	Geomorphic Position (D2)
Iron Deposits (B5) Other (Explain in Remark	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes No Depth (inches): 500	rface
Saturation Present? Yes No Depth (inches): 500	reace Wetland Hydrology Present? Yes No No No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections) if available:
Describe Recorded Data (stream gauge, monitoring well, aerial priotos, pre	vious inspections), ii available.
Remarks:	
Tromands.	
	İ
	8

2,641/2,064		Dominant		Dominance Test worksheet:
1. Liquidambar Styraci Blua	% Cover 40	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2. ACET VUDRUM	40	Y	FAC	Total Number of Dominant
3				Species Across All Strata: (B)
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 86% (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8	80			OBL species x 1 =
40	00	= Total Co		FACW species x 2 =
50% of total cover:	20% of	total cover	10	FAC species x 3 =
Sapling/Shrub Stratum (Plot size:30F+X30F+)	16	~	-11	FACU species x 4 =
1. TIEX OPOICE	15		FAC	UPL species x 5 =
2. Magnoria virginiana		<u>N</u>	FACW	Column Totals: (A) (B)
3. cyrilla racemificra	10	-	FACW	Coldina Totals.
4. Ligustrum sinense	7	N	FAC	Prevalence Index = B/A =
5. Carpinus carolinianos		N	FAC	Hydrophytic Vegetation Indicators:
6				1 Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8.				3 - Prevalence Index is ≤3.0¹
	37	= Total Co	rer	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 18.5	20% of	total cover	7.4	Problematic Hydrophytic Vegetation (Explain)
Herb Stratum (Plot size: 3084 X3084	_			11-dissans of traditional trade and trade and trade and trade and trade
1. Woodwardin aveolata	20	Y	OBL	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2 Botry Pus Virginianus	<u>ス</u>	N	FACU	Definitions of Four Vegetation Strata:
3.05munda Strum cinna momeum		~	FACW	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
9				
10				Woody vine - All woody vines greater than 3.28 ft in
11				height.
12	27			
12.	p. I	= Total Co		
50% of total cover: 13.4	20% of	total cover	2.1	
Woody Vine Stratum (Plot size: 50 + X 30 + T	20		_	
1. Lonicera japonica	20		FACU	
2. Biggunia capreviata	10	7	FAC	
3. SMILAX VU-LUNDIFULIA	2	N	FAC	
4				
5				Hydrophytic
	32	= Total Co	/er	Vegetation
50% of total cover: 16		total cover		Present? Yes No
Remarks: (If observed, list morphological adaptations below				
(ii and ii and ii and iii and iii and ii and				

Profile Desc	cription: (Describe	to the depth			499	or confirm	the absence o	of Indicators.)	
Depth	Matrix Color (moist)	%	Color (moist)	ox Feature:	Type	Loc²	Texture	Remarks	
(inches)			Color (moist)	- 70	Туре		SL	Kemaks	
0-0	104R3/1	100	2 0 =1/						
8-20	104R5/1	801	04R5/6	20		///	ML		
	,		,						
	oncentration, D=Dep					ains.		PL=Pore Lining, M=Matrix	
Hydric Soil	Indicators: (Applic	able to all Li	RRs, unless othe	rwise not	ed.)			or Problematic Hydric S	iolls":
Histosol			Polyvalue B					uck (A9) (LRR O)	
	pipedon (A2)		Thin Dark S					uck (A10) (LRR S)	I BA 450A B)
	istic (A3)		Loamy Much	-		(0)		d Vertic (F18) (outside M nt Floodplain Soils (F19) (
	en Sulfide (A4) d Layers (A5)		Loamy Gley Depleted Ma		F2)			ous Bright Loamy Soils (F	
_	Bodies (A6) (LRR P	. T. U)	Redox Dark		6)			A 153B)	
	ucky Mineral (A7) (LF		Depleted Da					rent Material (TF2)	
	resence (A8) (LRR U	53. 75. 3.53	Redox Depr					allow Dark Surface (TF12	2)
1 cm Mt	Jck (A9) (LRR P, T)		Marl (F10) (Other (E	Explain in Remarks)	
	d Below Dark Surfac	e (A11)	Depleted Oc			-	31 - 11		ation and
	ark Surface (A12)		Iron-Mangar					itors of hydrophytic vegeta and hydrology must be pro	
_	rairie Redox (A16) (N Mucky Mineral (S1) (I		Umbric Surf			, u)		ss disturbed or problemat	198
	Gleyed Matrix (S4)	LKK 0, 3)	Reduced Ve			OA. 150B)	dillo.	33 distanced of problemat	
	Redox (S5)		Piedmont FI				9A)		
	Matrix (S6)						A 149A, 153C,	153D)	
	rface (S7) (LRR P, S	6, T, U)							
Restrictive	Layer (if observed):							/	
Туре:									
Depth (in	ches):						Hydric Soil F	Present? Yes	No
Remarks:									
	(4)								



Wetland data point wsup025f_w facing northwest.



Wetland data point wsup025f_w facing south.

Photo Sheet 2 of 3

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: ACP City/County: SUFFOIK Sampling Date: 12/9/15
Applicant/Owner: DOM (0100 State: VA Sampling Point: WSup 025_
Investigator(s): EST-M.Smith, K.Murfhvey Section, Township, Range: NA
Landform (hillslope, terrace, etc.): hill slope Local relief (concave, convex, none): CONVEX Slope (%):
Soil Map Unit Name: Rains fine sandy loan NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturbed?
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes No Ves Within a Wetland? No Ves No V
HYDROLOGY
Wetland Hydrology Indicators: Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B13) Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15) (LRR U) Drainage Patterns (B10) Saturation (A3) Hydrogen Sulfide Odor (C1) Moss Trim Lines (B16)
Saturation (A3) Hydrogen Sulfide Odor (C1) Moss Trim Lines (B16) Water Marks (B1) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2) — Presence of Reduced Iron (C4) — Crayfish Burrows (C8)
Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface (C7) Geomorphic Position (D2)
Iron Deposits (B5) Other (Explain in Remarks) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) FAC-Neutral Test (D5)
Water-Stained Leaves (B9) Sphagnum moss (D8) (LRR T, U)
Field Observations:
Surface Water Present? Yes NoDepth (inches): N A
Water Table Present? Yes No Depth (inches): 720
Saturation Present? Yes No Depth (inches): >20 Wetland Hydrology Present? Yes No No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks:

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

							n the absen			
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Features %	Type	Loc ²	Texture		Remarks	
O- 5			odd (IIIdal)		1456		FSL			
0-)	104R3/3	100								
5-14	2,545/3	100					FSL			
14-20	2.5(16/3	982	,545/6	2	C	0	ESL			
11 20	212/10	100	100,0							
								_		
¹ Type: C=C	oncentration, D=Depl	etion, RM=R	educed Matrix, Ma	S=Masked	Sand Gr	ains.	² Locatio	n: PL=Pore L	ining, M=Matr	rix.
Hydric Soil	Indicators: (Applica	able to all LF	Rs, unless other	rwise note	ed.)			rs for Proble		
Histosol			Polyvalue Be			RRST	10 1 cm	Muck (A9) (I	RR O)	
	pipedon (A2)		Thin Dark Su					Muck (A10)		
			Loamy Muck				_			MLRA 150A,B)
_	istic (A3)		Loamy Gleye	-		. 0)) (LRR P, S, T)
	en Sulfide (A4)				-2)			malous Bright		
	d Layers (A5)	T 10	Depleted Ma		6)		_	LRA 153B)	Loanly Golls	(1 20)
	Bodies (A6) (LRR P,		Redox Dark					Parent Mater	ial (TE2)	
	ucky Mineral (A7) (LR		Depleted Da					Shallow Dari		12)
	resence (A8) (LRR U)	Redox Depre		3)					12)
	ick (A9) (LRR P, T)	(0.44)	Marl (F10) (L		MIDA 4	E4\	000	er (Explain in i	(Cilidins)	
	d Below Dark Surface	e (A11)	Depleted Oc		•		- 3 ₁₋	dicators of hyd	dranhi dia va a	station and
	ark Surface (A12)		Iron-Mangan					-		
	rairie Redox (A16) (N		Umbric Surfa	, ,		, u)		vetland hydrol		
	Mucky Mineral (S1) (L	.RR O, S)	Delta Ochric					nless disturbe	ed or problem	atic.
	Sleyed Matrix (S4)		Reduced Ver							
0.000.000	Redox (S5)		Piedmont Flo							
	Matrix (S6)		Anomalous E	Bright Loar	ny Soils (F20) (ML	RA 149A, 15	3C, 153D)		
	rface (S7) (LRR P, S									
Restrictive							T			
	Layer (if observed):									/
Type:			_							
Туре:			_				Hydric S	oll Present?	Yes	
Type: Depth (in							Hydric S	oll Present?	Yes	No
Туре:							Hydric S	oll Present?	Yes	No
Type: Depth (in			_				Hydric S	oll Present?	Yes	No
Type: Depth (in			_				Hydric S	oll Present?	Yes	_ No
Type: Depth (in			_				Hydric S	oll Present?	Yes	No
Type: Depth (in			_				Hydric S	oll Present?	Yes	No
Type: Depth (in			_				Hydric S	oll Present?	Yes	No
Type: Depth (in			_				Hydric S	oll Present?	Yes	No
Type: Depth (in			_				Hydric S	oll Present?	Yes	No
Type: Depth (in							Hydric S	oll Present?	Yes	No
Type: Depth (in							Hydric S	oll Present?	Yes	No
Type: Depth (in							Hydric S	oll Present?	Yes	No
Type: Depth (in							Hydric S	oll Present?	Yes	No
Type: Depth (in							Hydric S	oll Present?	Yes	No
Type: Depth (in							Hydric S	oll Present?	Yes	No
Type: Depth (in							Hydric S	oll Present?	Yes	No
Type: Depth (in							Hydric S	oll Present?	Yes	No
Type: Depth (in							Hydric S	oll Present?	Yes	No
Type: Depth (in							Hydric S	oll Present?	Yes	No
Type: Depth (in							Hydric S	oll Present?	Yes	No
Type: Depth (in							Hydric S	oll Present?	Yes	No
Type: Depth (in							Hydric S	oll Present?	Yes	No
Type: Depth (in							Hydric S	oll Present?	Yes	No
Type: Depth (in							Hydric S	oll Present?	Yes	No
Type: Depth (in							Hydric S	oll Present?	Yes	No
Type: Depth (in							Hydric S	oll Present?	Yes	No
Type: Depth (in							Hydric S	oll Present?	Yes	No



Upland data point wsup025_u facing northeast.



Upland data point wsup025_u facing southeast.

Photo Sheet 3 of 3

WEILAND DETERMINATION DATA	FORM – Atlantic and Gulf Coastal Plain Region
Project/Site:	City/County: Sampling Date: 13 15
Applicant/Owner: DOMINIUN	State: VA Sampling Point: W540017f_v
	Section, Township, Range: N/A
	Local relief (concave, convex, none): None Slope (%): 0-2
	6,667122 Long: -76, 817975 Datum: W658
Soil Map Unit Name: Fains fine bandy loam	DED
Are climatic / hydrologic conditions on the site typical for this time of year	
Are Vegetation, Soil, or Hydrology significantly	
Are Vegetation, Soil, or Hydrology naturally pro	
SUMMARY OF FINDINGS - Attach site map showing	sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: Yes No No No Remarks:	Is the Sampled Area within a Wetland? Yes No
NCWAM: Headwater Forest HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B13	
✓ High Water Table (A2) Marl Deposits (B15)	
Saturation (A3) Hydrogen Sulfide O	
Water Marks (B1) Oxidized Rhizosphe	eres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Reduce	ed Iron (C4) Crayfish Burrows (C8)
	ion in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface	
Iron Deposits (B5) Other (Explain in Re	
Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)	FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U)
Field Observations:	Spiragrium moss (DO) (ERR 1, D)
Surface Water Present? Yes NoX Depth (inches):	. NA
Water Table Present? Yes X No Depth (inches):	
Saturation Present? Yes No Depth (inches):	
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photo:	s, previous inspections), if available:
Remarks;	
10,	
I .	

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

Sampling Point: ____

20121fot	Absolute	Dominant	Indicator	Dominance Test worksheet:
1. ACCV rubrum	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2. Platanus occidentalis		N	FACW	Total Number of Dominant Species Across All Strata: (B)
4. 5.				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7				
8				Total % Cover of: Multiply by:
- 1	72	= Total Cov	er, A	OBL species x 1 =
50% of total cover: 3	20% of	total cover	14.4	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30 / 30 FT)	150 12	1		FAC species x 3 =
1. Quercus michauxii	20	Y	FACW	FACU species x 4 =
2.			-	UPL species x 5 =
3				Column Totals: (A) (B)
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8	0.0			3 - Prevalence Index is ≤3.01
1.5	20	= Total Cov	rer	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of	total cover	5	
Herb Stratum (Plot size: 30x30++) 1. ANNOTINATIA gigantea	20	Y	FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. W DON Wardid areolata	10	V	0131	Definitions of Four Vegetation Strata:
3		,		- 14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
4				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
				height.
5				
6 7			ACCOUNT OF THE PARTY OF THE PAR	Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb - All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
11				Woody vine – All woody vines greater than 3.28 ft in height.
42				norga.
12.	30	Total Cov	-	*
50% of total cover: 15		total cover:	/	8
Woody Vine Stratum (Plot size: 30 × 30 + +)	20 % 01	total cover.		
Woody vine Stratum (Plot Size: 507 50 1 7	10	Y	EAC	
- Clastic broth of falls	-10	4	EAD	
2. 2 1/10/10/11/11/11			FAL	
3				
4				
5				Hydrophytic
7 0	10:	= Total Cov	er	Vegetation
50% of total cover:	20% of	total cover:	9	Present? Yes No
Remarks: (If observed, list morphological adaptations below	w).			
				*

_	_	٠	

Sampling Point: W540017f_w

Profile Des	cription: (Describe Matrix	to the depth		ment the Indic ox Features	ator or confir	m the absence of	mulcators.
(inches)	Color (moist)	%	Color (moist)		pe ¹ Loc ²	Texture	Remarks
0-20	1148 +11	90 1	DYRAILO	2 0	PL	CYL	
			112				
		- — —					
¹Type: C=C	Concentration, D=Dep	letion, RM=Re	duced Matrix, M	S=Masked San	d Grains	² Location: P	L=Pore Lining, M=Matrix.
	Indicators: (Applic						r Problematic Hydric Solls ³ :
Histoso					88) (LRR S, T,		ck (A9) (LRR O)
	pipedon (A2)			rface (S9) (LR			ck (A10) (LRR S)
	listic (A3)			y Mineral (F1)			Vertic (F18) (outside MLRA 150A,B
	en Sulfide (A4)			d Matrix (F2)	(Little O)		t Floodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)		N Depleted Ma				us Bright Loamy Soils (F20)
- 2%	Bodies (A6) (LRR P.	. T. U)	Redox Dark			(MLRA	
	ucky Mineral (A7) (LF			k Surface (F7)			ent Material (TF2)
	resence (A8) (LRR U		Redox Depre				llow Dark Surface (TF12)
	uck (A9) (LRR P, T)		Marl (F10) (L	, ,			plain in Remarks)
	d Below Dark Surface	e (A11)		hric (F11) (MLI	RA 151)		
	ark Surface (A12)				12) (LRR O, P	T) 3Indicate	ors of hydrophytic vegetation and
	Prairie Redox (A16) (N	ILRA 150A)		ce (F13) (LRR			nd hydrology must be present,
	Mucky Mineral (S1) (L			(F17) (MLRA			s disturbed or problematic.
Sandy (Gleyed Matrix (S4)				A 150A, 150B)	
Sandy F	Redox (S5)				F19) (MLRA 1		
Stripped	Matrix (S6)		Anomalous E	right Loamy S	oils (F20) (MLF	RA 149A, 153C, 1	53D)
Dark St	rface (S7) (LRR P, S	i, T, U)					
Restrictive	Layer (if observed):					1	
Type:			_				\/
Depth (in	ches):					Hydric Soll Pr	esent? Yes X No
Remarks:						1	
110111011101							



Wetland data point wsuo017f_w facing northeast.



Wetland data point wsuo017f_w facing northwest.

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

20N2MF+	Absolute	Dominant	Indicator	Dominance Test worksheet:
1. Acer rubrum	% Cover 20	Species	Status	Number of Dominant Species That Are OBL, FACW, or FAC:(A)
2. Liquidambar styraciflua 3. Albizia julibrissin	10	X	FACU	Total Number of Dominant
4. Carya illinoiensis	10	V	FACU	Species Across All Strata: (B)
5.				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8	150	= Total Co		OBL species x 1 =
50% of total cover: 22.				FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 3(1)30++)	20% 0	lotal cover	· — —	FAC species x 3 =
1. Sassafras albidum	10	Y	FACY	FACU species x 4 =
2	_			UPL species x 5 =
3				Column Totals: (A) (B)
4.				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.01
-		= Total Co		Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover:	20% of	total cover	2	
Herb Stratum (Plot size: 20 X30ft) 1. Campsis radicans	10	Y	FAC	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Asplenium Platinouron	5	V	FACU	Definitions of Four Vegetation Strata:
3. Liquetrum sinense	5	V	FAC	Tree Mandy plants evaluating since 2 in (7.6 cm) or
4				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5.			The second second second second	height.
6.				Sapling/Shrub – Woody plants, excluding vines, less
7.				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb - All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12				
1.6	20 :	= Total Cov	/er , l	
50% of total cover:	20% of	total cover	:_4_	
Woody Vine Stratum (Plot size: 30x30ft)	_	M		
1. Toxicodendron radicans	5	Y	FAC	
2. Vitis rotundifolia	10	Y	FAC	
3. Smilax rotundifolia	10	_Y_	FAC	
4				
5				Hydrophytic
	250	= Total Cov	/er	Vegetation
50% of total cover: 2-0		total cover		Present? Yes No
Remarks: (If observed, list morphological adaptations belo	w).			
	n 1950			

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

SOIL

	WSUO	10	1-	u
Sampling	Point:			

Profile Description: (Describe to the depth	needed to document the Indicator or confirm	the absence of Indicators.)
Depth Matrix	Redox Features	
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture Remarks
10 10 100		team
10-20 10 VR 312 100		Loan
IT C-C	National Matrix, MO, Market Const.	21
Type: C=Concentration, D=Depletion, RM=F		² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Solis ³ :
Hydric Soil Indicators: (Applicable to all L		
Histosol (A1)	Polyvalue Below Surface (S8) (LRR S, T, U	
Histic Epipedon (A2)	Thin Dark Surface (S9) (LRR S, T, U)	2 cm Muck (A10) (LRR S)
Black Histic (A3) Hydrogen Sulfide (A4)	Loamy Mucky Mineral (F1) (LRR O) Loamy Gleyed Matrix (F2)	Reduced Vertic (F18) (outside MLRA 150A,B) Piedmont Floodplain Soils (F19) (LRR P, S, T)
Stratified Layers (A5)	Depleted Matrix (F3)	Anomalous Bright Loamy Soils (F20)
Organic Bodies (A6) (LRR P, T, U)	Redox Dark Surface (F6)	(MLRA 153B)
5 cm Mucky Mineral (A7) (LRR P, T, U)	Depleted Dark Surface (F7)	Red Parent Material (TF2)
Muck Presence (A8) (LRR U)	Redox Depressions (F8)	Very Shallow Dark Surface (TF12)
1 cm Muck (A9) (LRR P, T)	Marl (F10) (LRR U)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Ochric (F11) (MLRA 151)	
Thick Dark Surface (A12)	Iron-Manganese Masses (F12) (LRR O, P,	
	Umbric Surface (F13) (LRR P, T, U)	wetland hydrology must be present,
Sandy Mucky Mineral (S1) (LRR O, S)	Delta Ochric (F17) (MLRA 151)	unless disturbed or problematic.
Sandy Gleyed Matrix (S4)	Reduced Vertic (F18) (MLRA 150A, 150B)	
Sandy Redox (S5)	Piedmont Floodplain Soils (F19) (MLRA 149	
Stripped Matrix (S6)	Anomalous Bright Loamy Soils (F20) (MLR/	A 149A, 153C, 153D)
Dark Surface (S7) (LRR P, S, T, U)		
Restrictive Layer (if observed):		
Type:	_	V
Depth (inches):	_	Hydric Soil Present? Yes No
Remarks:		
		1