<b>VEGETATION</b> (	(Five Strata)	- Use	scientific	names of	plants.

Q. Ci.	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft)		Species?	Status	Number of Dominant Species
1. Acer rubrum	_50_	<del></del>	FAC	That Are OBL, FACW, or FAC: (A)
2. Liriodendron tulipifera	50	Y	FACU	Total Number of Dominant
3. Querous alba	35	YY	FACU	Species Across All Strata: (B)
4. Liquidanbir styraciflux	_25	<u> </u>	FAC	Percent of Dominant Species
5				Percent of Dominant Species That Are OBL, FACW, or FAC:
6				
	160	= Total Cov	er	Prevalence Index worksheet:
50% of total cover: _ <b>\$0</b>	20% of	total cover	32	Total % Cover of: Multiply by:
Sapling Stratum (Plot size: 15 Ft )		total oo vo.		OBL species x 1 =
1 Carre alabor	15	4	FACU	FACW species x 2 =
2. Fagus spandifolia	15	<del>-</del>	FACO	FAC species x 3 =
3. Averus alba	in	4	FACU	FACU species x 4 =
•			17700	UPL species x 5 =
4,				Column Totals: (A) (B)
5				
6	11-			Prevalence Index = B/A =
		= Total Cov		Hydrophytic Vegetation Indicators:
50% of total cover:	<b>2</b> 0% of	total cover	<u> </u>	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 15 Ft )				2 - Dominance Test is >50%
a Marchally Commission	_5_	<u> Y</u>	FACH	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Juni perus virginiana	5	4	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Ilex opaca	5	Y	FAC	data in Remarks or on a separate sheet)
4				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5				
6				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
0	15	= Total Cov	· · · · · · · · · · · · · · · · · · ·	be present, unless disturbed or problematic.
		- 10tai Co	Ci	Definitions of Five Vegetation Strata:
7 t			-12	
50% of total cover: 7:	<b>5</b> 20% of	total cover	_3_	Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft)				Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
Herb Stratum (Plot size: 5 ft )  1. Quercus falcata	_15_		FACU	Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft)	_15_			Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft )  1. Quercus falcata	<u>15</u> 5		FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
Herb Stratum (Plot size: 5 ft )  1. Querous fakata  2. Galjum aparine	<u>15</u> 5		FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft )  1. Querous fakata  2. Galjum aparine	_15 _5		FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft )  1. Querous fakata  2. Galium aparine  3		<u> </u>	FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
Herb Stratum (Plot size: 5 ft )  1. Quercus fakata 2. Galium aparine 3 4 5		<u> </u>	FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft )  1. Quercus Falcata  2. Galium aparine  3		<u> </u>	FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
Herb Stratum (Plot size: 5 ft )  1. Quercus falcata 2. Galium aparine 3. 4. 5. 6. 7. 8.		<u> </u>	FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3
Herb Stratum (Plot size: 5 ft )  1. Querius Falcata 2. Galium aparine 3. 4. 5. 6. 7. 8. 9. 9.		<u> </u>	FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft )  1. Quercus falcata 2. Galium aparine 3. 4. 5. 6. 7. 8.		<u> </u>	FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3
Herb Stratum (Plot size: 5 ft )  1. Quercus fakata 2. Galium aparine 3. 4. 5. 6. 7. 8. 9. 9. 10.		<u> </u>	FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft )  1. Quercus falcata  2. Galium aparine  3. 4. 5. 6. 7. 8. 9. 10. 11.	15 5	= Total Cov	FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft )  1. Quercus falcata  2. Galium aparine  3.	15 5	= Total Cov	FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft )  1. Quercus falcata 2. Galium aparine 3. 4. 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 10		= Total Cover	FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft )  1. Quercus falcata  2. Galium aparine  3.		= Total Cover	FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft )  1. Quercus fakata 2. Galium aparine 3. 4. 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 10 Woody Vine Stratum (Plot size: 30 ft )  1. Lonic Wai jupe nica 2. 10. 11. 11. 12. 13. 14. 15. 15. 15. 15. 15. 15. 15. 15. 15. 15		= Total Cover	FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft )  1. Quercus falcata 2. Galium aparine 3. 4. 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 10		= Total Cover	FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft )  1. Quercus fakata 2. Galium aparine 3. 4. 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 10 Woody Vine Stratum (Plot size: 30 ft )  1. Lonic Wai jupe nica 2. 10. 11. 11. 12. 13. 14. 15. 15. 15. 15. 15. 15. 15. 15. 15. 15		= Total Cover	FACU FACU FACU FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft )  1. Quercus falcata 2. Galium aparine 3. 4. 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 10  Woody Vine Stratum (Plot size: 30 ft )  1. Lonicus falcata 2. 3		= Total Cover	FACU FACU FACU FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.
Herb Stratum (Plot size: 5 ft )  1. Quercus falcata 2. Galium aparine 3. 4. 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 10  Woody Vine Stratum (Plot size: 30 ft )  1. Lonicus falcata 2. 3		= Total Cover	FACU FACU FACU FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.
Herb Stratum (Plot size: 5 ft )  1. Quercus falcata 2. Galium aparine 3. 4. 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 10  Woody Vine Stratum (Plot size: 30 ft )  1. Lonicus falcata 2. 3	20 20 20% o	= Total Cover	FACU FACU FACU FACU FACU FACU FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.
Herb Stratum (Plot size: 5 ft )   1. Quercus falcata   2. Galium aparine   3.   4.   5.   6.   7.   8.   9.   10.   11.   50% of total cover:   10   Woody Vine Stratum (Plot size: 30 ft )   1.   Lonic Ma jupanica   2.   3.   4.   5.   50% of total cover:   10   10   10   10   10   10   10   1	20 20% o	= Total Cover	FACU FACU FACU FACU FACU FACU FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.
Herb Stratum (Plot size: 5 ft )   1. Quercus falcata   2. Galium aparine   3.   4.   5.   6.   7.   8.   9.   10.   11.   50% of total cover: 10   10.   11.   50% of total cover: 10   1. Lonicus papanica   2.   3.   4.   5.   5.   5.   5.   5.   5.   5	20 20% o	= Total Cover	FACU FACU FACU FACU FACU FACU FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.

	cription: (Describe	to the depth				or confirm	the absen	ce of ir	dicators.)	
Depth (inches)	Matrix Color (moist)	——————————————————————————————————————	Redox Color (moist)	Features %	S Type <sup>1</sup>	Loc²	Texture			Remarks
0-6	104R3/2	100	COIOI (IIIOISI)		<u>- Type</u>	<u> </u>	Sardy			Kemarks
6-11	10 YR 5/3		-				loany s			(
6 11	10 18 3/3	100					rouny s	<u>ano</u>	gravel	<u>'</u>
				<del></del>				<u> </u>		
l <del></del>			<del> </del>			<del> </del>	-			
	•		:	<del>:</del>		·				·
									· · · · · · · · · · · · · · · · · · ·	
							-		-	
·				****						
Type: C=C Hydric Soil	oncentration, D=Depl	letion, RM=R	educed Matrix, MS	=Masked	Sand Gra	ins.			ore Lining, I	M=Matrix. ematic Hydric Soils <sup>3</sup> :
Histosol			☐ Dark Surface	(\$7)			Inc			ematic Hydric Solls : ) (MLRA 147)
	pipedon (A2)		Polyvalue Bel		ce (S8) <b>(M</b>	LRA 147,	148)		Prairie Re	
1	istic (A3)		Thin Dark Sur			47, 148)	<del></del>		.RA 147, 1	
	en Sulfide (A4) d Layers (A5)		<ul><li>☐ Loamy Gleyed</li><li>☐ Depleted Mate</li></ul>		F2)		<u></u>		iont Floodp . <b>RA 136, 1</b>	olain Soils (F19)
l —	uck (A10) (LRR N)		Redox Dark S		6)					rk Surface (TF12)
	d Below Dark Surface	e (A11)	Depleted Darl							Remarks)
	ark Surface (A12) /lucky Mineral (S1) <b>(</b> L	DD N	Redox Depres			DD N				
	A 147, 148)	.IXIX IV,	MLRA 136		CS (1 12) (L	-KK N,				
	Gleyed Matrix (S4)		Umbric Surface						•	phytic vegetation and
	Redox (S5) I Matrix (S6)		☐ Piedmont Floo ☐ Red Parent M							r must be present, or problematic.
	Layer (if observed):		Red Falent W	iateriai (r	ZI) (WILK)	4 127, 147	') 	uness	uistui beu t	л рговієтацс.
Туре:	Rock									
Depth (in	ches):						Hydric S	oil Pre	sent? Ye	es No V
Remarks:	At ll"a	rock	layer was	s enc	owter	ed on	d bor	ing	refusa	I was met,
	Hydric soils	s crite	ria not i	net.	•					
!										



Upland data point wnol003\_u facing East



Upland data point wnol003\_u facing South



Upland data point wnol003\_u soil sample

#### WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Project/Site: Nomoway City/County: Sampling Date: 08/22/2014 DUMINION Applicant/Owner: Sampling Point: WWOHOLZe. J. SWITTLER Landform (hillslope, terrace, etc.): FLOSOPLATIN Local relief (concave, convex. none) Slope (%): Subregion (LRR or MLRA): LRR1 Lat: 37, 239899927 Long: 78, 17471 6859 Datum: NM1983 Soil Map Unit Name: MFKD ALLUKAL PFUIA NWI classification: Are climatic / hydrologic conditions on the site typical for this time of year? Yes \_ (If no, explain in Remarks.) , or Hydrology \_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes \_\_\_\_\_\_ No \_\_( . 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? Yes No O within a Wetland? Wetland Hydrology Present? PEINT ESTABLISHED CLEARED POWERCINE FCOODPLAZA CREEK ASSOCIATED WITH WEST ALL 3 CRITICALA AS PFOIA BUT CONSEDERAL PHOTOS 106-4989 to 4991 **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) True Aquatic Plants (B14) Sparsely Vegetated Concave Surface (B8) High Water Table (A2) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Saturation (A3) Oxidized Rhizospheres on Living Roots (C3) Moss Trim Lines (B16) Water Marks (B1) Presence of Reduced Iron (C4) Dry-Season Water Table (C2) Sediment Deposits (B2) Recent Iron Reduction in Tilled Soils (C6) Crayfish Burrows (C8) Drift Deposits (B3) Thin Muck Surface (C7) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Other (Explain in Remarks) Stunted or Stressed Plants (D1) Iron Deposits (B5) Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Microtopographic Relief (D4) Aquatic Fauna (B13) FAC-Neutral Test (D5) Field Observations: Surface Water Present? \_ Depth (inches): \_\_ Water Table Present? \_ Depth (inches): 1/A Saturation Present? O No Depth (inches): \_\_\_ Wetland Hydrology Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: WETLAND HYORSLOCY STANDENC

10/2	Absolute	Dominant	Indicator	Dominance Test worksheet:
	% Cover	Species?	<u>Status</u>	Number of Dominant Species
1. NA		$\bot$		That Are OBL, FACW, or FAC:
2				Total Number of Dominant
3.				Species Across All Strata: (B)
4	•			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:
Sapling Stratum (Plot size: 10 / R )	0	= Total Cov	/er	OBL species x1 = _1
. 10	:3 :			FACW species x 2 = 1
1. <i>NA</i> 2				FAC species x3 = 1
2				
3		$\rightarrow$		FACU species x 4 =
4	-			UPL species x 5 = 1
5				Column Totals: 0 (A) 5 (B)
6.				Developed Ind. of B/A
7.				Prevalence Index = B/A =
	0	= Total Cov	ver	Hydrophytic Vegetation Indicators:
Shrub Stratum (Plot size: 10 / R )				1 - Rapid Test for Hydrophytic Vegetation
1. LIGUITRUM SINENIE	_5	7	FACU	2 - Dominance Test is >50%
2. LIQJIDAMBAR STYRACTHUA	2	N	FAC	3 - Prevalence Index is ≤3.0¹
	-			4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3				data in Remarks or on a separate sheet)
4		+		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5				
6				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
7.				be present, unless disturbed or problematic.
Herb Stratum (Plot size: 5'R)	<u>M</u>	= Total Co	ver 4/2	Definitions of Five Vegetation Strata:
Herb Stratum (Plot size:)	80		n 171	
1. MURDANNIA KEEJAK		7	OBL	Tree – Woody plants, excluding woody vines,
2. BOEHMERIA CYLENDOLLA	30	7	FACIL	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
3. EUPATOLIUM MATULATUR PSWJUM	30	4	FACW	(1.0 sin) of larger in charnotes at prodet height (22.1).
4. HOD Athyrium ASPLENOZDES	ZO	$\mathcal{N}$	F4C	Sapling - Woody plants, excluding woody vines,
5. JEG CINNA ARUNDINA CEA	10	N	FALW	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
6.				than 5 th. (7.0 cm) BBH.
				Shrub - Woody plants, excluding woody vines,
7.		-		approximately 3 to 20 ft (1 to 6 m) in height.
8.		-#-		Herb – All herbaceous (non-woody) plants, including
9.	. ——	<del>-  -  </del> -		herbaceous vines, regardless of size, and woody
10	. ——			plants, except woody vines, less than approximately
11.				3 ft (1 m) in height.
12,				Woody vine - All woody vines, regardless of height.
10/4	170	= Total Co	ver <i>95   3</i> 4	
Woody Vine Stratum (Plot size: 10/k )				
1. LONELEAA JAPONILA	10	4	FAC	,
2. CAMPSIS RADILANS	10	7	FAC	
3.				
4.				Hydrophytic
			-	Vegetation Present? Yes No No
5.	a 7 h		toler	Present? Yes No No
,		= Total Co	ver /0/5	
Remarks: (Include photo numbers here or on a separate s	sheet.)	[LEPATEO]	i Paire	I DONOLNANCE TEST. PLOT
SELE REGULAD DUE TO NARROW WITH	•			N No to Dialiting 1-2.
O KAYE WALL	לווע לווע	ROW.		*
1 1				

Pleffile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)    Addition		rofile Des	crintian: (Describe	to the day	th nooded to de	ant the incit	otov o	ima dha		ampling Poli	IL	
Color (molet)  2.5 Y (M)  30  7.5 YR (M/4)  20  C PUM  SELVY  GAAN  Totaline  Remarks  Fluctation: PL=Pone Lining, M=Matrix, MS=Masked Sand Grains.  Tipper: Circ Cencentration, D=Desolution, RM=Reduced Matrix, MS=Masked Sand Grains.  Tipper: Circ Cencentration, D=Desolution, RM=Reduced Matrix, MS=Masked Sand Grains.  Tipper: Circ Cencentration, D=Desolution, RM=Reduced Matrix, MS=Masked Sand Grains.  Tipper: Circ Cencentration, D=Desolution, RM=Reduced Matrix, MS=Masked Sand Grains.  Tipper: Circ Cencentration, D=Desolution, RM=Reduced Matrix, MS=Masked Sand Grains.  Tipper: Circ Cencentration, D=Desolution, RM=Reduced Matrix, MS=Masked Sand Grains.  Tipper: Circ Cencentration, D=Desolution, RM=Reduced Matrix, MS=Masked Sand Grains.  Tipper: Circ Cencentration, D=Desolution, RM=Reduced Matrix, MS=Masked Sand Grains.  Tipper: Circ Cencentration, D=Desolution, RM=Reduced Matrix, MS=Masked Sand Grains.  Tipper: Circ Cencentration, D=Desolution, RM=Reduced Matrix, MS=Masked Sand Grains.  Tipper: Circ Cencentration, D=Desolution, RM=Reduced Matrix, MS=Masked Sand Grains.  Tipper: Circ Cencentration, D=Desolution, RM=Reduced Matrix, MS=Masked Sand Grains.  Tipper: Circ Cencentration, D=Desolution, RM=Reduced Matrix, MS=Masked Sand Grains.  Tipper: Circ Cencentration, D=Desolution, RM=Reduced Matrix, MS=Masked Sand Grains.  Tipper: Circ Cencentration, D=Desolution, RM=Reduced Matrix, MS=Masked Sand Grains.  Tipper: Circ Cencentration, D=Desolution, RM=Reduced Matrix, MS=Masked Sand Grains.  Tipper: Circ Cencentration, D=Desolution, RM=Reduced Matrix, MS=Masked Sand Grains.  Tipper: Circ Cencentration, D=Desolution Circ Center Sand Grains.  Tipper: Circ Cencentration, D=Desolution Circ Cent	ı	1		to the dep			ator or conf	irm the absence	e of indicato	ors.)		
Tyne: C-Concentration, D-Depletion, RM-Reduced Matrix, MS-Masked Sand Grains.  Tyne: C-Concentration, D-Depletion, RM-Reduced Sand Grains.  Tyne: C-Concentration, D-Depletion, RM-Reduced Matrix, MS-Masked Sand Grains.  Tyne: C-Concentration, D-Person Matrix, MS-Masked S				0/2	Color (moiet)		mo <sup>1</sup> Loo <sup>2</sup>	- Touture		Damada		
*Tone: C=Concentration, D=Deptision, RM=Reduced Matrix, MS=Masked Sand Crains. **Location: PL=Pone Lining, M=Matrix. Indicators for Problematic Hydric Soils*: Indicators of Problematic Hydric	1.7						,			Kemarks	i	<del></del>
Hydric Soil Indicators:    Histosol (A1)	-	0 60	4.1 4.	50	1.0 1K 4/4	<u> </u>	<u> </u>	h	WAM	11 24		
Hydric Soil Indicators:    Histosol (A1)	-							_				
Hydric Soil Indicators:    Histosol (A1)												
Hydric Soil Indicators:    Histosol (A1)	-											
Hydric Soil Indicators:    Histosol (A1)	-							_			-	— l
Hydric Soil Indicators:    Histosol (A1)	-											
Hydric Soil Indicators:    Histosol (A1)	l	<u> </u>										
Hydric Soil Indicators:    Histosol (A1)					*							_
Hydric Soil Indicators:    Histosol (A1)	_	i -										_
Hydric Soil Indicators:    Histosol (A1)	-	<del> </del>						-				
Hydric Soil Indicators:    Histosol (A1)	-	ļ										
Hydric Soil Indicators:    Histosol (A1)	_	<u> </u>	-									
Hydric Soil Indicators:    Histosol (A1)	1-	ype: C=C	oncentration, D=De	pletion, RM	=Reduced Matrix. MS	=Masked Sar	nd Grains	<sup>2</sup> Location: P	L=Pore I inin	ıa. M=Matriv		_
Histic Selpedon (A2)								Indic	ators for Pr	oblematic F	lydric Soils <sup>3</sup>	:
Histic Epipedon (A2)   Black Histic (A3)   Hydrogen Sulfide (A4)   Thin Dark Surface (S9) (MLRA 147, 148)   Coast Prairie Redox (A16) (MLRA 147, 148)   Hydrogen Sulfide (A4)   Depieted Eleiw Dark Surface (A11)   Depieted Below Dark Surface (A11)   Depieted Dark Surface (A11)   Depieted Dark Surface (A11)   Depieted Dark Surface (A11)   Depieted Dark Surface (A12)   Depieted Dark Surface (A13)   Depieted Dark Surface (A13)   Depieted Dark Surface (A13)   Depieted Dark Surface (A14)   De		Histosol	(A1) .		Dark Surface	(S7)					-	
Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) 2 cm Muck (A10) (LRR N) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Redox (S5) Stripped Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (Tobserved): Type: // Ab Depleted Tobserved): Type: // Ab Depleted New York (A10) (LRR N, MLRA 148) Depleted New Y							88) (MLRA 14					
Hydrogen Sulfide (A4)		Black H	istic (A3)		Thin Dark Su	rface (S9) (ML	RA 147, 148	)			,	
Pedex Dark Surface (F6)   Redox Dark Surface (F7)   Redox Depressions (F8)   Other (Explain in Remarks)					Loamy Gleye	d Matrix (F2)			•		s (F19)	
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Meyed Matrix (S4) Sandy Redox (S5) Sirpped Matrix (S6) Restrictive Layer (if observed): Type: NA Depth (inches): NA Remarks:  Depleted Dark Surface (F7) Redox Depressions (F8) Iron-Manganese Masses (F12) (LRR N, MLRA 136, 122) Which Surface (F13) (MLRA 136, 122) Sirpped Matrix (S6) Restrictive Layer (if observed): Type: NA Depth (inches): NA Depth (inches): NA Depth (inches): NA  Remarks:  NATUCAL  N	-							_	•			
Redox Depressions (F8)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136, 122)  Sandy Redox (S5)  Supped Matrix (S4)  Depth (Inches): NA  Depth (Inches): NA  Depth (Inches): NB  Remarks:  Redox Depressions (F8)  Iron-Manganese Masses (F12) (LRR N, MLRA 136, 122)  Umbric Surface (F13) (MLRA 136, 122)  Piedmont Floodplain Soils (F19) (MLRA 148)  Inches of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Remarks:  SNDK021  PF01A  NATUCAL  LEVEE  Remarks:  NATUCAL  LEVEE  Remarks:	-			(644)								
Sandy Mucky Mineral (S1) (LRR N, MLRA 136)   Iron-Manganese Masses (F12) (LRR N, MLRA 137, 148)   MLRA 136, 122)   Sandy Gleyed Matrix (S4)   Sandy Redox (S5)   Piedmont Floodplain Soils (F19) (MLRA 136, 122)   wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed): Type: NA   Depth (Inches): NA				ce (A11)		, ,	)					
MLRA 136)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Restrictive Layer (if observed):  Type: NA  Depth (Inches): NA  Remarks:  MLRA 136, 122)  Piedmont Floodplain Soils (F19) (MLRA 148)  MLRA 148)  MLRA 136, 122)  Pindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  When the problematic is a substitute of the problema	-	<del></del>		IDDM			(40) (1 <b>DD 1</b> :	∐ (	Other (Explai	n in Remark	s)	
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6)  Restrictive Layer (if observed): Type: NA Depth (inches): NA Remarks:  ProjA  NATUKAL Livic  NA Livic  NA Livic  NA Livic  NA  NATUKAL Livic  NA NA NATUKAL Livic  NA	-	T-		LKK N,			12) (LKK N,					
Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if observed): Type: NA Depth (inches): NA  Remarks:  SNOK021  NATUCAL  LEVEL  NA DEPTH (Inches): NA  PROJA  ProjA	Г				I I	•	2Δ 136 122\	31-	dicators of h	(drophytic ve	antation and	,
Stripped Matrix (S6)  Restrictive Layer (if observed):  Type: NA  Depth (inches): NA  Remarks:  PPOIA  POIA  POIA  POIA  POIA  NATUKAL  LEVEE  YES  NO  O  NO  NO  NO  NO  NO  NO  NO  NO	Ī											
Restrictive Layer (if observed): Type:						- apiani 00110 (	· ···/ (milita	•				a a
Type: NA Depth (inches): NA  Remarks:  SNOK021  PFOIA  NATURAL LEVEE  NO O  NO	R			:		-				July of proble		
Depth (inches): NA  Remarks:  ProiA		1										
PENDEN SNOKOZI  DENIA								Hydric Soi	l Present?	Yes 🙆	No O	
MATURAL PRESITO DE MINORAL LEVER SANDA PROPERTO DE MINORAL LEVER SANDA S	R							. Tyuric ooi		103		
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Wetland data point wnok017e\_w facing North



Wetland data point wnok017e\_w facing South



Wetland data point wnok017e\_w soil sample

## WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Sampling Date: 08/22/2014 SERP Project/Site: City/County: DOMINSON Sampling Point: WWOKO17F. W Applicant/Owner: J- SWELTZER Investigator(s): ocal relief (concave, convex, none): None Landform (hillslope, terrace, etc.): FLOODPLA IN Slope (%): 1-3 Subregion (LRR or MLRA): \_CRRP Datum: NAO 1993 Soil Map Unit Name: MITTO ALLUVIAL LAND Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes No No 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? Yes Yes O No within a Wetland? Wetland Hydrology Present? Yes Remarks: ESTABLESMED IN FORESTED POZITON WITH WEST CREEK. ALL 3 CRETERED WED PHOTOS: 106-4998 to 5007 HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) True Aquatic Plants (B14) Sparsely Vegetated Concave Surface (B8) High Water Table (A2) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Saturation (A3) Oxidized Rhizospheres on Living Roots (C3) Moss Trim Lines (B16) Water Marks (B1) Presence of Reduced Iron (C4) Dry-Season Water Table (C2) Sediment Deposits (B2) Recent Iron Reduction in Tilled Soils (C6) Crayfish Burrows (C8) Drift Deposits (B3) Thin Muck Surface (C7) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Other (Explain in Remarks) Stunted or Stressed Plants (D1) Iron Deposits (B5) Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Shallow Aguitard (D3) Water-Stained Leaves (B9) Microtopographic Relief (D4) Aquatic Fauna (B13) FAC-Neutral Test (D5) Field Observations: Surface Water Present? No \_ Depth (inches): Yes O No O, Depth (inches): Water Table Present? Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: JECONDARY DITCH AFFECTENL

22/0			t Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 33/2)	% Cover	Species		Number of Dominant Species
1. ACER RUBRUM	<u> 40</u>	<u> </u>	FAC	That Are OBL, FACW, or FAC: (A)
2. FRANINUS PENNSYLVANILA	30	Ÿ	FACW	Total Number of Dominant
3. PLATANY OULDENTALTS	30	Y	FACIN	Total Number of Dominant Species Across All Strata:  [B]
4. LIQUID AMBAR STYZAUTUBA	20	$\sim$	FAL	
5. LIRISDANDAON TUIPLFERA	10	N	FACU	Percent of Dominant Species That Are OBL, FACW, or FAC:  (A/B)
6				mat Are OBL, FACW, of FAC(A/B)
7				Prevalence Index worksheet:
	9/30 -	Total Co	over 65/26	Total % Cover of: Multiply by:
Sapling Stratum (Plot size: 15 7 )	<u> </u>	Total Co	over 63/4D	OBL species x 1 =
1. LIGUED AMBAR STYRACIFUUA	- 5	4	FAL	FACW species x 2 =
2				FAC species x 3 =
3.			- <del></del> '	FACU species x 4 = 1
		<del>                                      </del>	<del></del>	
4		-		UPL species $x = 5 = 1$
5				Column Totals: 0 (A) 5 (B)
6		<del>-  </del>	<u> </u>	Prevalence Index = B/A =
7	_ <del></del> -	$\perp$		Hydrophytic Vegetation Indicators:
75	= 20	Total Co	over	
Shrub Stratum (Plot size: 15 (2				1 - Rapid Test for Hydrophytic Vegetation
1. LENDEZA BENZOEN				2 - Dominance Test is >50%
	60	Y	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>
3. LINDERA BENZUIN		Y	FAC	4 - Morphological Adaptations (Provide supporting
4				data in Remarks or on a separate sheet)
5			4.	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
6.				
7.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
	\$ 90 -	Total Co	over 45/12	be present, unless disturbed or problematic.
Herb Stratum (Plot size: 5 /R)		- 10tai 0t	Nel 12/1/6	Definitions of Five Vegetation Strata:
1. BOEHMERIA CYLINDRICA	5-	4	FALW	Tree – Woody plants, excluding woody vines,
2. ARISABNA TRIPHYLUUM	_ <u></u>	W	FALW	approximately 20 ft (6 m) or more in height and 3 in.
.3.				(7.6 cm) or larger in diameter at breast height (DBH).
	-			Sapling – Woody plants, excluding woody vines,
4.		+		approximately 20 ft (6 m) or more in height and less
5		+-		than 3 in. (7.6 cm) DBH.
6.		-		Shrub – Woody plants, excluding woody vines,
7				approximately 3 to 20 ft (1 to 6 m) in height.
8				Have All barba accus (non use sky) stanta in studius
9				Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
10				plants, except woody vines, less than approximately
11.				3 ft (1 m) in height.
12.				Woody vine – All woody vines, regardless of height.
2-12	Ø 7 =	Total Co	over $\hat{\mathcal{A}}/\mathbf{z}$	, , , , , , , , , , , , , , , , , , , ,
Woody Vine Stratum (Plot size: 30 2				
1. LONDUELA JAPONICA	<u> 30</u>	Y	FAL	· · · · · · · · · · · · · · · · · · ·
2. VITES ROTUNDIFOLIA	10	7	FAL	
3. TUXILLOCKNORON RADILANS	5	$\mathcal{N}$	FAC	,
4.				Hydrophytic
5.				Vegetation Present? Yes No No
	o 45 =	Total C	- 22ic	No
		Total Co	over 23/9	
Remarks: (Include photo numbers here or on a separate				
VELETATEON PASSES DOMINAN	us this			
I				

Profile Desc	cription: (Describe	to the dep	th needed to docun	nent the i	ndicator	or confirm	the absenc	e of indicators.)	
Depth	Matrix			x Features					
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	_Loc²	Texture	Remarks	<del></del>
0-6	2.54 572	90	7.5412 4/4	10		PL/M	SIUT	wan	
6-14	6LEY15/104	95	7.5 YR 4/4	_5_	_0_	PL	SIU	LOAM	
14-20	GLEY 1 5/104	99	7,548 414	1	C	PL		WAM	
			-	<del></del>	·		-		
-	-								
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				<u>2</u> 2		ily-;			
	<del></del>					-	-		
							-		
								4	
<sup>1</sup> Type: C=C	concentration, D=Dep	oletion, RM=	=Reduced Matrix, MS	S=Masked	Sand Gr	ains.		PL=Pore Lining, M=Matrix.	
Hydric Soil	Indicators:							cators for Problematic Hydric S	Soils <sup>3</sup> :
Histoso			Dark Surface					2 cm Muck (A10) (MLRA 147)	
	pipedon (A2)		Polyvalue Be		` ' '		148)	Coast Prairie Redox (A16) (MLRA 147, 148)	
- Personal	listic (A3) en Sulfide (A4)		Thin Dark Su Loamy Gleye			147, 140)		Piedmont Floodplain Soils (F19)	
	d Layers (A5)		Depleted Ma		)			(MLRA 136, 147)	
	uck (A10) (LRR N)		Redox Dark	Surface (F				Red Parent Material (TF2)	
	ed Below Dark Surface	ce (A11)	Depleted Da					Very Shallow Dark Surface (TF12	2)
<del> </del>	ark Surface (A12)	LDDN	Redox Depre			(I DD N		Other (Explain in Remarks)	
_	Mucky Mineral (S1) ( A 147, 148)	LKK N,	MLRA 13		65 (1 12)	(LIXIX IV,			
	Gleyed Matrix (S4)		Umbric Surfa	-	(MLRA 1	36, 122)	3lr	ndicators of hydrophytic vegetation	n and
Sandy I	Redox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14		wetland hydrology must be prese	ent,
	d Matrix (S6)							unless disturbed or problematic.	
	Layer (if observed)	:							
Type:	. 10.						Hardela O.	U.B V (B) No.	0
Depth (ir	nches): //						Hydric Sc	oil Present? Yes <u> </u>	
Remarks:									
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Wetland data point wnok017f\_w facing North



Wetland data point wnok017f\_w facing South



Wetland data point wnok017f\_w soil sample

# WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont

Project/Site:SKRP	City/County: NoTT	DWAY	Sampling Date: 08/22/20
Applicant/Owner: PAMINTON	•	State: VA	_ Sampling Point: WNUKOIT
Investigator(s): J. SWEITLER	Section, Township, Rang	ge: NA	
Landform (hillslope, terrace, etc.): FLOOPLAIN Lo	ocal relief (concave, conve	ex, none): NOME	Slope (%): <u>0-1</u>
Subregion (LRR or MLRA): LRR P Lat: 37,2399	24542 Long	78. 1236350	Datum: NAD 193.
Soil Map Unit Name: MIXIO ALLUVIAL LAND (MA)		NWI classific	- 1A
Are climatic / hydrologic conditions on the site typical for this time of y	ear? Yes 🕐 No (	(If no, explain in R	emarks.)
Are Vegetation, Soil, or Hydrology significantly	v disturbed? Are "N	lormal Circumstances" p	resent? Yes No
Are Vegetation , Soil , or Hydrology naturally p		eded, explain any answe	
SUMMARY OF FINDINGS – Attach site map showin	-		
	g sampling point to	cations, transcots	, important reatures, etc.
Hydrophytic Vegetation Present?  Yes No	Is the Sampled	Area	
Hydric Soil Present?  Wetland Hydrology Present?  Yes No	within a Wetland	d? Yes <u>(</u> )	No <u></u>
	L CEVEK BE	TWEEN FLOOR	ni Atol
			FO TO BE AN
	PU IIS FPOR	PO) DELECTION	NO 10 BE AIN
uplan).			* * *
PHOTOS 106-5003 to 5007			
HYDROLOGY			
Wetland Hydrology Indicators:	,	Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply	, ,	Surface Soil	Cracks (B6)
Surface Water (A1)	` '	= ' ' '	getated Concave Surface (B8)
High Water Table (A2)  Hydrogen Sul		Drainage Par	
	ospheres on Living Roots	=	
	Reduced Iron (C4)		Water Table (C2)
Sediment Deposits (B2)  Prift Deposits (B3)  Recent Iron R  Thin Muck Su	eduction in Tilled Soils (C		sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)  Other (Explain			tressed Plants (D1)
Iron Deposits (B5)	, in recinality		Position (D2)
Inundation Visible on Aerial Imagery (B7)		Shallow Aqui	
Water-Stained Leaves (B9)		Microtopogra	phic Relief (D4)
Aquatic Fauna (B13)		FAC-Neutral	Test (D5)
Field Observations:	.10	2 2	
Surface Water Present? Yes No Depth (inche			
Water Table Present? Yes No Depth (inche			
Saturation Present? Yes No Depth (inche (includes capillary fringe)	s): <i>NA</i> Wet	land Hydrology Preser	t?, Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial pho	tos, previous inspections),	, if available:	
NA .			
Remarks:  NO INDICATORS OF WETLAND	HYDROLOGY	PRESENT	
			,
	*		
			# **
			,

70/12	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30'/7 )		Species?		Number of Dominant Species —7
1. ALLA RUBRUM	50	-13	FAC	That Are OBL, FACW, or FAC: (A)
2. LIRTS OKNORON TULIPIFERA	50	1	FALU	Total Number of Dominant
3. CEUTES OCCEDENTALIS	15	- W	FAL	Species Across All Strata: (B)
4. LIQUED AMBAR FRYKALIFUUA	15	W	FAL	B 4 5 5 6
5.				Percent of Dominant Species That Are OBL, FACW, or FAC:
0.			-:	mat Are OBE, I AOW, OF AC (A/B)
7.				Prevalence Index worksheet:
	0170	= Total Cov	ver 6.7/16	Total % Cover of: Multiply by:
Sapling Stratum (Plot size: 151)			voi <b>01/00</b>	OBL species x 1 =
1. ULANI AMIRTCANA	_5	Y	FACW	FACW species x 2 = _1
2. CIQUIDAMBAR STYRACIFULA	.5	7	FAC	FAC species x 3 = 1
				FACU species x 4 = 1
3				UPL species x 5 = 1
5	· <del></del>	-		Column Totals: 0 (A) 5 (B)
5			-	Column rotals: (A) 5
0.	· <del></del>	-	·	Prevalence Index = B/A =
7.	0.117	_لبلــ		Hydrophytic Vegetation Indicators:
Shrub Stratum (Plot size: 151R)	B / U	= Total Cov	ver5/2	1 - Rapid Test for Hydrophytic Vegetation
1. LINDERA BENVUEN	20	[Y]	EAL	
		-13	FAL	2 - Dominance Test is >50%
2. LIQUID AMBAR STYRACIFULA	20			3 - Prevalence Index is ≤3.0 <sup>1</sup>
3. AIDMINA PRILORA	10	7	FAL	4 - Morphological Adaptations¹ (Provide supporting
4.	·			data in Remarks or on a separate sheet)
5.				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
6.	2.			
7.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
els.	\$50	= Total Cov	ver 25/10	
Herb Stratum (Plot size: 5/7)			, , , ,	Definitions of Five Vegetation Strata:
1. <u>V</u> A				Tree – Woody plants, excluding woody vines,
2				approximately 20 ft (6 m) or more in height and 3 in.
3				(7.6 cm) or larger in diameter at breast height (DBH).
4				Sapling – Woody plants, excluding woody vines,
5				approximately 20 ft (6 m) or more in height and less
6				than 3 in. (7.6 cm) DBH.
				Shrub - Woody plants, excluding woody vines,
7 8.				approximately 3 to 20 ft (1 to 6 m) in height.
0		-		Herb – All herbaceous (non-woody) plants, including
9				herbaceous vines, regardless of size, and woody
10				plants, except woody vines, less than approximately
11.				3 ft (1 m) in height.
12				Woody vine - All woody vines, regardless of height.
Woody Vine Stratum (Plot size: 30'R)	0	= Total Cov	/er	
Woody Vine Stratum (Plot size:)  1. SMILAL ROLNDSPULA	60	19 ·	FAL	
		_=		
2. LONGGRA JAPONTIA	30	17	FAL	
3. TOXILLODENDRON RADICANI	10	14	EAL	
4	-			Hydrophytic Vegetation
5.				Present? Yes No
	\$100	= Total Cov	er 5//20	
Remarks: (Include photo numbers here or on a separate si			• /	
VEGETATION POSSES COMENANTE	•			
NEGRICIAL DAN LOSSING OF ALLOSAN CA	i Thi	1		
		4		

	cription: (Describe	to the dep				or confirm	the absenc	e of in	dicators.)		
Depth (inches)	Matrix Color (moist)	%		edox Features		1.002	Task		,		
(inches)	104R 4/3		Color (moist)	%	Type <sup>1</sup>	_Loc²	Texture	GI		emarks	
		- n	7 64 ~/				very		Sandy	Coon	
1-8	2,54 5/4	80	7054 5/E	<u> 20 </u>	_ <u>D</u> _	M	1/2/7 /	Ghe.	Sandy	Loan	
8-18	1042 6/4	100	******			_	Loany	Ve	14 As	- Sun	
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	-								-1-		<del> </del>
	•		-						Ta .		
	•						The special	100			
					<del></del>	-		. <u>- 1</u>			
	-							. —		* *	
	Concentration, D=Der	oletion, RM	=Reduced Matrix,	MS=Masked	Sand Gra	ains.	<sup>2</sup> Location: F				
<del>-</del>	Indicators:								for Probler	-	
Histoso			Dark Surf						luck (A10) (		. , .
	pipedon (A2)			Below Surfac			148)		Prairie Redo		
	listic (A3) en Sulfide (A4)			Surface (S9)		47, 148)	. 🖂		RA 147, 148		^\
_ ` `	ed Layers (A5)			eyed Matrix (I Matrix (F3)	-2)		السا		ont Floodpla RA 136, 147		9)
	uck (A10) (LRR N)			irk Surface (F	6) .		· 🗖		rent Materi		
	ed Below Dark Surfac	ce (A11)		Dark Surface	•				hallow Dark		<del>-</del> 12)
	ark Surface (A12)	,		pressions (F8					Explain in F		/
Sandy l	Mucky Mineral (S1) (	LRR N,		ganese Masse		LRR N,					
	A 147, 148)		MLRA	,							•
	Gleyed Matrix (S4)			urface (F13) (I					s of hydropl		
	Redox (S5)		Piedmont	Floodplain So	oils (F19)	(MLRA 14			d hydrology		
	d Matrix (S6)							unless	disturbed o	problemat	c."
	Layer (if observed)	:									
Type:			<del></del>								@
	nches): NA		· ·				Hydric So	il Pres	ent? Yes		10 🕳
Remarks:	NO INDICA	73.4 (	DE HYDE	ori C	0+16	DREC	EAST				
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	•										
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e .											



Upland data point wnok017\_u facing North



Upland data point wnok017\_u facing South



Upland data point wnok017\_u soil sample

#### WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Project/Site: Nomoway City/County: Sampling Date: 08/22/2014 DUMINION Applicant/Owner: Sampling Point: WWOHOLZe. J. SWITTLER Landform (hillslope, terrace, etc.): FLOSOPLATIN Local relief (concave, convex. none) Slope (%): Subregion (LRR or MLRA): LRR1 Lat: 37, 239899927 Long: 78, 17471 6859 Datum: NM1983 Soil Map Unit Name: MFKD ALLUKAL PFUIA NWI classification: Are climatic / hydrologic conditions on the site typical for this time of year? Yes \_ (If no, explain in Remarks.) , or Hydrology \_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes \_\_\_\_\_\_ No \_\_( . 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? Yes No O within a Wetland? Wetland Hydrology Present? PEINT ESTABLISHED CLEARED POWERCINE FCOODPLAZA CREEK ASSOCIATED WITH WEST ALL 3 CRITICALA AS PFOIA BUT CONSEDERAL PHOTOS 106-4989 to 4991 **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) True Aquatic Plants (B14) Sparsely Vegetated Concave Surface (B8) High Water Table (A2) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Saturation (A3) Oxidized Rhizospheres on Living Roots (C3) Moss Trim Lines (B16) Water Marks (B1) Presence of Reduced Iron (C4) Dry-Season Water Table (C2) Sediment Deposits (B2) Recent Iron Reduction in Tilled Soils (C6) Crayfish Burrows (C8) Drift Deposits (B3) Thin Muck Surface (C7) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Other (Explain in Remarks) Stunted or Stressed Plants (D1) Iron Deposits (B5) Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Microtopographic Relief (D4) Aquatic Fauna (B13) FAC-Neutral Test (D5) Field Observations: Surface Water Present? \_ Depth (inches): \_\_ Water Table Present? \_\_ Depth (inches): 1/A Saturation Present? O No Depth (inches): \_\_\_ Wetland Hydrology Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: WETLAND HYORSLOCY STANDENC

10/2	Absolute	Dominant	Indicator	Dominance Test worksheet:
	% Cover	Species?	<u>Status</u>	Number of Dominant Species
1. NA		$\bot$		That Are OBL, FACW, or FAC:
2				Total Number of Dominant
3.				Species Across All Strata: (B)
4	•			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:
Sapling Stratum (Plot size: 10 / R )	0	= Total Cov	/er	OBL species x1 = _1
. 10	:3 :			FACW species x 2 = 1
1. <i>NA</i> 2				FAC species x3 = 1
2				
3		$\rightarrow$		FACU species x 4 =
4	-			UPL species x 5 = 1
5				Column Totals: 0 (A) 5 (B)
6.				Developed Ind. of B/A
7.				Prevalence Index = B/A =
	0	= Total Cov	ver	Hydrophytic Vegetation Indicators:
Shrub Stratum (Plot size: 10 / R )				1 - Rapid Test for Hydrophytic Vegetation
1. LIGUITRUM SINENIE	_5	7	FACU	2 - Dominance Test is >50%
2. LIQJIDAMBAR STYRACTHUA	2	N	FAC	3 - Prevalence Index is ≤3.0¹
	-			4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3				data in Remarks or on a separate sheet)
4		+		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5				
6				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
7.				be present, unless disturbed or problematic.
Herb Stratum (Plot size: 5'R)	<u>M</u>	= Total Co	ver 4/2	Definitions of Five Vegetation Strata:
Herb Stratum (Plot size:)	80		n 171	
1. MURDANNIA KEEJAK		7	OBL	Tree – Woody plants, excluding woody vines,
2. BOEHMERIA CYLENDOLLA	30	7	FACIL	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
3. EUPATOLIUM MATULATUR PSWJUM	30	4	FACW	(1.0 sin) of larger in charnotes at broads noight (22.1).
4. HOD Athyrium ASPLENOZDES	ZO	$\mathcal{N}$	F4C	Sapling - Woody plants, excluding woody vines,
5. JEG CINNA ARUNDINA CEA	10	N	FALW	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
6.				than 5 th. (7.0 cm) BBH.
				Shrub - Woody plants, excluding woody vines,
7.		-		approximately 3 to 20 ft (1 to 6 m) in height.
8.		-#-		Herb – All herbaceous (non-woody) plants, including
9.	. ——	<del>-  -  </del> -		herbaceous vines, regardless of size, and woody
10	. ——			plants, except woody vines, less than approximately
11.				3 ft (1 m) in height.
12,				Woody vine - All woody vines, regardless of height.
10/4	170	= Total Co	ver <i>95   3</i> 4	
Woody Vine Stratum (Plot size: 10/k )				
1. LONELEAA JAPONILA	10	4	FAC	,
2. CAMPSIS RADILANS	10	7	FAC	
3.				
4.				Hydrophytic
			-	Vegetation Present? Yes No No
5.	a 7 h		toler	Present? Yes No No
,		= Total Co	ver /0/5	
Remarks: (Include photo numbers here or on a separate s	sheet.)	[LEPATEO]	i Paire	I DONOLNANCE TEST. PLOT
SELE REGULAD DUE TO NARROW WITH	•			N No to Dialiting 1-2.
O KAYE WALL	אווד סדי	ROW.		*
1 1				

Pleffile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)    Addition		rofile Des	crintian: (Describe	to the day	th nooded to de	ant the incit	otov o	ima dha		ampling Poli	IL	
Color (molet)  2.5 Y (M)  30  7.5 YR (M/4)  20  C PUM  SELVY  GAAN  Totaline  Remarks  Fluctation: PL=Pone Lining, M=Matrix, MS=Masked Sand Grains.  Tipper: Circ Cencentration, D=Desolution, RM=Reduced Matrix, MS=Masked Sand Grains.  Tipper: Circ Cencentration, D=Desolution, RM=Reduced Matrix, MS=Masked Sand Grains.  Tipper: Circ Cencentration, D=Desolution, RM=Reduced Matrix, MS=Masked Sand Grains.  Tipper: Circ Cencentration, D=Desolution, RM=Reduced Matrix, MS=Masked Sand Grains.  Tipper: Circ Cencentration, D=Desolution, RM=Reduced Matrix, MS=Masked Sand Grains.  Tipper: Circ Cencentration, D=Desolution, RM=Reduced Matrix, MS=Masked Sand Grains.  Tipper: Circ Cencentration, D=Desolution, RM=Reduced Matrix, MS=Masked Sand Grains.  Tipper: Circ Cencentration, D=Desolution, RM=Reduced Matrix, MS=Masked Sand Grains.  Tipper: Circ Cencentration, D=Desolution, RM=Reduced Matrix, MS=Masked Sand Grains.  Tipper: Circ Cencentration, D=Desolution, RM=Reduced Matrix, MS=Masked Sand Grains.  Tipper: Circ Cencentration, D=Desolution, RM=Reduced Matrix, MS=Masked Sand Grains.  Tipper: Circ Cencentration, D=Desolution, RM=Reduced Matrix, MS=Masked Sand Grains.  Tipper: Circ Cencentration, D=Desolution, RM=Reduced Matrix, MS=Masked Sand Grains.  Tipper: Circ Cencentration, D=Desolution, RM=Reduced Matrix, MS=Masked Sand Grains.  Tipper: Circ Cencentration, D=Desolution, RM=Reduced Matrix, MS=Masked Sand Grains.  Tipper: Circ Cencentration, D=Desolution, RM=Reduced Matrix, MS=Masked Sand Grains.  Tipper: Circ Cencentration, D=Desolution, RM=Reduced Matrix, MS=Masked Sand Grains.  Tipper: Circ Cencentration, D=Desolution Circ Center Sand Grains.  Tipper: Circ Cencentration, D=Desolution Circ Cent	ı	1		to the dep			ator or conf	irm the absence	e of indicato	ors.)		
Tyne: C-Concentration, D-Depletion, RM-Reduced Matrix, MS-Masked Sand Grains.  Tyne: C-Concentration, D-Depletion, RM-Reduced Sand Grains.  Tyne: C-Concentration, D-Depletion, RM-Reduced Matrix, MS-Masked Sand Grains.  Tyne: C-Concentration, D-Person Matrix, MS-Masked S				0/2	Color (moiet)		mo <sup>1</sup> Loo <sup>2</sup>	- Touture		Damada		
*Tone: C=Concentration, D=Deptision, RM=Reduced Matrix, MS=Masked Sand Crains. **Location: PL=Pone Lining, M=Matrix. Indicators for Problematic Hydric Soils*: Indicators of Problematic Hydric	1.7						,			Kemarks	i	<del></del>
Hydric Soil Indicators:    Histosol (A1)	-	0 60	4.1 4.	50	1.0 1K 4/4	<u> </u>	<u> </u>	h	WAM	11 24		
Hydric Soil Indicators:    Histosol (A1)	-							_				
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Hydric Soil Indicators:    Histosol (A1)	_	<u> </u>	-									
Hydric Soil Indicators:    Histosol (A1)	1-	ype: C=C	oncentration, D=De	pletion, RM	=Reduced Matrix. MS	=Masked Sar	nd Grains	<sup>2</sup> Location: P	L=Pore I inin	ıa. M=Matriv		_
Histic Selpedon (A2)								Indic	ators for Pr	oblematic F	lydric Soils <sup>3</sup>	:
Histic Epipedon (A2)   Black Histic (A3)   Hydrogen Sulfide (A4)   Thin Dark Surface (S9) (MLRA 147, 148)   Coast Prairie Redox (A16) (MLRA 147, 148)   Hydrogen Sulfide (A4)   Depieted Eleiw Dark Surface (A11)   Depieted Below Dark Surface (A11)   Depieted Dark Surface (A11)   Depieted Dark Surface (A11)   Depieted Dark Surface (A11)   Depieted Dark Surface (A12)   Depieted Dark Surface (A13)   Depieted Dark Surface (A13)   Depieted Dark Surface (A13)   Depieted Dark Surface (A14)   De		Histosol	(A1) .		Dark Surface	(S7)					-	
Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) 2 cm Muck (A10) (LRR N) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Redox (S5) Stripped Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (Tobserved): Type: // Ab Depleted Tobserved): Type: // Ab Depleted New York (A10) (LRR N, MLRA 148) Depleted New Y							88) (MLRA 14					
Hydrogen Sulfide (A4)		Black H	istic (A3)		Thin Dark Su	rface (S9) (ML	RA 147, 148	)			,	
Pedex Dark Surface (F6)   Redox Dark Surface (F7)   Redox Depressions (F8)   Other (Explain in Remarks)					Loamy Gleye	d Matrix (F2)			•		s (F19)	
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Meyed Matrix (S4) Sandy Redox (S5) Sirpped Matrix (S6) Restrictive Layer (if observed): Type: NA Depth (inches): NA Remarks:  Depleted Dark Surface (F7) Redox Depressions (F8) Iron-Manganese Masses (F12) (LRR N, MLRA 136, 122) Which Surface (F13) (MLRA 136, 122) Sirpped Matrix (S6) Restrictive Layer (if observed): Type: NA Depth (inches): NA Depth (inches): NA Depth (inches): NA  Remarks:  NATUCAL  N	-							_	•			
Redox Depressions (F8)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136, 122)  Sandy Redox (S5)  Supped Matrix (S4)  Depth (Inches): NA  Depth (Inches): NA  Depth (Inches): NB  Remarks:  Redox Depressions (F8)  Iron-Manganese Masses (F12) (LRR N, MLRA 136, 122)  Umbric Surface (F13) (MLRA 136, 122)  Piedmont Floodplain Soils (F19) (MLRA 148)  Inches of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Remarks:  SNDK021  PF01A  NATUCAL  LEVEE  Remarks:  NATUCAL  LEVEE  Remarks:	-			(644)								
Sandy Mucky Mineral (S1) (LRR N, MLRA 136)   Iron-Manganese Masses (F12) (LRR N, MLRA 137, 148)   MLRA 136, 122)   Sandy Gleyed Matrix (S4)   Sandy Redox (S5)   Piedmont Floodplain Soils (F19) (MLRA 136, 122)   wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed): Type: NA   Depth (Inches): NA				ce (A11)		, ,	)					
MLRA 136)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Restrictive Layer (if observed):  Type: NA  Depth (Inches): NA  Remarks:  MLRA 136, 122)  Piedmont Floodplain Soils (F19) (MLRA 148)  MLRA 148)  MLRA 136, 122)  Pindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  When the problematic is a substitute of the problema	-	<del></del>		IDDM			(40) (1 <b>DD 1</b> :	∐ (	Other (Explai	n in Remark	s)	
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6)  Restrictive Layer (if observed): Type: NA Depth (inches): NA Remarks:  ProjA  NATUKAL Livic  NA Livic  NA Livic  NA Livic  NA  NATUKAL Livic  NA NA NATUKAL Livic  NA	-	T-		LKK N,			12) (LKK N,					
Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if observed): Type: NA Depth (inches): NA  Remarks:  SNOK021  NATUCAL  LEVEL  NA DEPTH (Inches): NA  PROJA  ProjA	Г				I I	•	2Δ 136 122\	31-	dicators of h	(drophytic ve	antation and	,
Stripped Matrix (S6)  Restrictive Layer (if observed):  Type: NA  Depth (inches): NA  Remarks:  PPOIA  POIA  POIA  POIA  POIA  NATUKAL  LEVEE  YES  NO  O  NO  NO  NO  NO  NO  NO  NO  NO	Ī											
Restrictive Layer (if observed): Type:						- apiani 00110 (	· ···/ (milita	•				a a
Type: NA Depth (inches): NA  Remarks:  SNOK021  PFOIA  NATURAL LEVEE  NO O  NO	R			:		-				July of proble		
Depth (inches): NA  Remarks:  ProiA		1										
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SURVINY LIMER									/		1	
JOILLAND CHALLES								Suntin	1.9.4	7	1	-
								ノーバタルフ	לע מיעני	Į.		



Wetland data point wnok017e\_w facing North



Wetland data point wnok017e\_w facing South



Wetland data point wnok017e\_w soil sample

## WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Sampling Date: 08/22/2014 SERP Project/Site: City/County: DOMINSON Sampling Point: WWOKO17F. W Applicant/Owner: J- SWELTZER Investigator(s): ocal relief (concave, convex, none): None Landform (hillslope, terrace, etc.): FLOODPLA IN Slope (%): 1-3 Subregion (LRR or MLRA): \_CRRP Datum: NAO 1993 Soil Map Unit Name: MITTO ALLUVIAL LAND Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes No No 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? Yes Yes O No within a Wetland? Wetland Hydrology Present? Yes Remarks: ESTABLESMED IN FORESTED POZITON WITH WEST CREEK. ALL 3 CRETERED WED PHOTOS: 106-4998 to 5007 HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) True Aquatic Plants (B14) Sparsely Vegetated Concave Surface (B8) High Water Table (A2) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Saturation (A3) Oxidized Rhizospheres on Living Roots (C3) Moss Trim Lines (B16) Water Marks (B1) Presence of Reduced Iron (C4) Dry-Season Water Table (C2) Sediment Deposits (B2) Recent Iron Reduction in Tilled Soils (C6) Crayfish Burrows (C8) Drift Deposits (B3) Thin Muck Surface (C7) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Other (Explain in Remarks) Stunted or Stressed Plants (D1) Iron Deposits (B5) Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Shallow Aguitard (D3) Water-Stained Leaves (B9) Microtopographic Relief (D4) Aquatic Fauna (B13) FAC-Neutral Test (D5) Field Observations: Surface Water Present? No \_ Depth (inches): Yes O No O, Depth (inches): Water Table Present? Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: JECONDARY DITCH AFFECTENL

22/0	Absolute Dominant Indicat	
Tree Stratum (Plot size: 33/2)	% Cover Species? Statu	
1. ACER RUBRUM	- 40 Y FA	Inat Are ODL, PACV, OF PAC. (A)
2. FRANINUS PENNSYLVANILA	30 Y FAC	Total Number of Dominant
3. PLATANY OURDENTALTS	_ 30 Y FAU	Species Across All Strata: (B)
4. LIQUID AMBAR STYZAUTUBA	20 N FAC	
5. LIRISDENDAON TUIPLFERA	10 N FACE	Percent of Dominant Species That Are OBL, FACW, or FAC:  (A/B)
6		— Markie Obc, I Aow, Ol I Ac. (AB)
7		Prevalence Index worksheet:
	9 730 = Total Cover 657	Total % Cover of: Multiply by:
Sapling Stratum (Plot size: 15 7 )		OBL species x 1 =
1. LIQUED AMBAR STYRACIFUNA	5 Y FA	FACW species x 2 = 1
2		FAC species x 3 = _1
3.		FACU species x 4 = 1
4		UPL species x 5 =
5.		Column Totals: 0 (A) 5 (B)
6		(2)
7.		Prevalence Index = B/A =
	Total Cover	Hydrophytic Vegetation Indicators:
Shrub Stratum (Plot size: 15 2	= Total Cover	Rapid Test for Hydrophytic Vegetation
1. LENGERA BINZUIN		2 - Dominance Test is >50%
	60 Y FAL	
3. LINDERA BENZUIN	30 Y FAL	<del>_</del>
4		data in Remarks or on a separate sheet)
5	- · · · · · · · · · · · · · · · · · · ·	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
the second secon		<del>-</del>
6	_ <del>    -</del>	Indicators of hydric soil and wetland hydrology must
7.	4.00	be present unless disturbed or problematic
Herb Stratum (Plot size: 5/R)	<u> 90</u> = Total Cover 45/	Definitions of Five Vegetation Strata:
1. BOEHMERTA CYLINDRICA	5 Y FAL	Tree – Woody plants, excluding woody vines,
2. ARISABMA TRIPHYLUUM	Z W FAW	
		(7.6 cm) or larger in diameter at breast height (DBH).
. 3.		Sapling – Woody plants, excluding woody vines,
4.		approximately 20 ft (6 m) or more in height and less
5		than 3 in. (7.6 cm) DBH.
6		Shrub – Woody plants, excluding woody vines,
7	_ <del>_                                  </del>	— approximately 3 to 20 ft (1 to 6 m) in height.
8		Herb – All herbaceous (non-woody) plants, including
9		herbaceous vines, regardless of size, and woody
10		plants, except woody vines, less than approximately
11		3 ft (1 m) in height.
12.		Woody vine - All woody vines, regardless of height.
700	7 = Total Cover 4/	ζ
Woody Vine Stratum (Plot size: 30 (2)	• 5	
1. LONDUELA JAPONICA	30 Y FAL	<u> </u>
1. CONTIECH JAPONICA 2. VITES ROTUNDIKOUJA	30 Y FAC	
1. CONTUERD JAPONICA	30 Y FAL	
1. CONTIECH JAPONICA 2. VITES ROTUNDIKOUJA	30 Y FAC	Hydrophytic
1. LONDERA JAPONICA 2. VITES ROTUNISTROGA 3. TURELOGENORUN RADILANS	30 Y FAC 10 Y FAC	Hydrophytic Vegetation Present? Yes No
1. LONDERA JAPONICA 2. VITES ROTUNISTROGA 3. TURELOGENORUN RADILANS	30 Y FAC 10 Y FAC	Hydrophytic Vegetation Present? Yes No
1. LONDERA JAPONICA 2. VITIS ROTUNISTROCIA 3. TUXELOCKIORUN RADICANS 4. 5.	30 Y FAC 10 Y FAC 5 N FAC 6 45 = Total Cover 23/	Hydrophytic Vegetation Present? Yes No
1. LONGULA JAPONICA 2. VITIS ROTUNISTROGA 3. TURLOGONORUN RADICANS 4. 5. Remarks: (Include photo numbers here or on a separate	30 Y FAC 10 T FAC 5 N FAC 0 41 = Total Cover 23/	Hydrophytic Vegetation Present? Yes No
1. LONDERA JAPONICA 2. VITES ROTUNGIKOCIA 3. TUXELOGENORUN RADILANS 4. 5.	30 Y FAC 10 T FAC 5 N FAC 0 41 = Total Cover 23/	Hydrophytic Vegetation Present? Yes No
1. LONGULA JAPONICA 2. VITIS ROTUNISTROGA 3. TURLOGONORUN RADICANS 4. 5. Remarks: (Include photo numbers here or on a separate	30 Y FAC 10 T FAC 5 N FAC 0 41 = Total Cover 23/	Hydrophytic Vegetation Present? Yes No
1. LONDIER TAPONICA 2. VITES ROPUNDENDEA 3. TURLUCCUORNIN RADILANS 4. 5.  Remarks: (Include photo numbers here or on a separate	30 Y FAC 10 T FAC 5 N FAC 0 41 = Total Cover 23/	Hydrophytic Vegetation Present? Yes No

Profile Desc	cription: (Describe	to the dep	th needed to docum	nent the i	ndicator	or confirm	the absenc	e of indicators.)	
Depth	Matrix			x Features					
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	_Loc <sup>2</sup>	Texture	Rem	arks
0-6	2.54 572	90	7.5412 4/4	10		PLIM	SIUT	wan	
6-14	6LEY15/104	95	7.5 YR 4/4	_5_	_0_	PL	SIU	604m	
14-20	GLEY 1 5/104	99	7,548 414	1	C	PL		WAM	
				<del></del>	·				
-	-								
				<u>;</u> 2		15-1			•
	<del></del>					-	-		
<sup>1</sup> Type: C=C	concentration, D=Dep	oletion, RM=	Reduced Matrix, MS	S=Masked	Sand Gr	ains.		PL=Pore Lining, M=M	
Hydric Soil	Indicators:							cators for Problema	-
Histoso			Dark Surface			1		2 cm Muck (A10) (MI	
	pipedon (A2)		Polyvalue Be Thin Dark Su		` ' '		148)	Coast Prairie Redox (MLRA 147, 148)	(A16)
- Personal	listic (A3) en Sulfide (A4)		Loamy Gleye			147, 146)		Piedmont Floodplain	Soils (F19)
	d Layers (A5)		Depleted Ma		)			(MLRA 136, 147)	
	uck (A10) (LRR N)		Redox Dark	Surface (F		- +		Red Parent Material	· /
	ed Below Dark Surface	ce (A11)	Depleted Dai					Very Shallow Dark S	
<del> </del>	ark Surface (A12)	I DD N	Redox Depre			(I DD N		Other (Explain in Re	marks)
_	Mucky Mineral (S1) ( A 147, 148)	LKK N,	MLRA 13		65 (1 12)	(LIXIX IV,			
	Gleyed Matrix (S4)		Umbric Surfa	-	(MLRA 1	36, 122)	11 <sup>E</sup>	ndicators of hydrophy	tic vegetation and
	Redox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	8)	wetland hydrology m	
	d Matrix (S6)							unless disturbed or p	roblematic.
	Layer (if observed)	):							
Type:	. 10.		× 2				Hardela O.	11 D	No ○
Depth (ir	nches): //						Hydric Sc	oil Present? Yes _	NO C
Remarks:									
ė.						€"			
n .									
ā ,						. 1) 11	170	. 01-0	<b>#</b>
		TFE	SUETULT	ON	$\omega$	Non 6	116-	u. DATA	FORIL
								*.	
									•
									•



Wetland data point wnok017f\_w facing North



Wetland data point wnok017f\_w facing South



Wetland data point wnok017f\_w soil sample

# WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont

Project/Site:SKRP	City/County: NoTT	DWAY	Sampling Date: 08/22/20
Applicant/Owner: PAMINTON	•	State: VA	_ Sampling Point: WNUKOIT
Investigator(s): J. SWEITLER	Section, Township, Rang	ge: NA	
Landform (hillslope, terrace, etc.): FLOOPLAIN Lo	ocal relief (concave, conve	ex, none): NOME	Slope (%): <u>0-1</u>
Subregion (LRR or MLRA): LRR P Lat: 37,2399	24542 Long	78. 236350	5 Datum: NAD 193.
Soil Map Unit Name: MIXIO ALLUVIAL LAND (Mn)		NWI classific	·
Are climatic / hydrologic conditions on the site typical for this time of y	ear? Yes 🕐 No (	(If no, explain in R	emarks.)
Are Vegetation, Soil, or Hydrology significantly	v disturbed? Are "N	Jormal Circumstances" p	resent? Yes No
Are Vegetation , Soil , or Hydrology naturally p		eded, explain any answe	
SUMMARY OF FINDINGS – Attach site map showin	•		
	g sampling point to	cations, transcots	, important reatures, etc.
Hydrophytic Vegetation Present?  Yes No	Is the Sampled	Area	
Hydric Soil Present?  Wetland Hydrology Present?  Yes No	within a Wetland	d? Yes <u>(</u> )	No <u></u>
	L CEVEK BE	TWEEN FLOOR	niAto/
			FO TO BE AN
	PU) 113 PPOM	BO) DELECTION	NO 15 BE AIN
upland.			
PHOTOS 106-5003 to 5007			
HYDROLOGY			
Wetland Hydrology Indicators:	,	Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply	, ,	Surface Soil	Cracks (B6)
Surface Water (A1)		= ' ' '	jetated Concave Surface (B8)
High Water Table (A2)  Hydrogen Sul		Drainage Par	
	ospheres on Living Roots	_	
	Reduced Iron (C4)		Water Table (C2)
Sediment Deposits (B2)  Prift Deposits (B3)  Recent Iron R  Thin Muck Su	eduction in Tilled Soils (C		sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)  Other (Explain			ressed Plants (D1)
Iron Deposits (B5)	, in recinality		Position (D2)
Inundation Visible on Aerial Imagery (B7)		Shallow Aqui	
Water-Stained Leaves (B9)		Microtopogra	phic Relief (D4)
Aquatic Fauna (B13)		FAC-Neutral	Test (D5)
Field Observations:	. 10		
Surface Water Present? Yes No Depth (inche			
Water Table Present? Yes No Depth (inche			
Saturation Present? Yes No Depth (inche (includes capillary fringe)	s): <i>NA</i> Wet	land Hydrology Preser	t?, Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial pho	tos, previous inspections)	, if available:	
NA .			
Remarks:  NO INDICATORS OF WETLAND	HYDROLDGY	PRESENT	
	*		
			# ** *
			,

70/12	Absolute Dominant Indicat	
Tree Stratum (Plot size: 30'/7 )	% Cover Species? Statu	— Number of Dominant Species
1. ALLA RUBRUM	50 7 FAC	
2. LIRTS OKNORON TULIPIFERA	50 1 FALL	Total Number of Deminent
3. CEUTES OCCEDENTALIS	15 N FAL	Species Across All Strata:
4. LIQUED AMBAR FRYKALIFUUA	15 N FAL	
5.		Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
0.		matric obe, i now, of the.
7.		Prevalence Index worksheet:
	170 = Total Cover 65/	Total % Cover of: Multiply by:
Sapling Stratum (Plot size: 151)		OBL species x 1 = _1
1. ULANI AMIRTCANA	5 Y FACE	FACW species x 2 = _1
2. CIQUIDAMBAR STYRACIFULA	5 T F40	
		FACU species x 4 = _1
3. 4.		UPL species x5 = 1
5		Column Totals: 0 (A) 5 (B)
5		Column rotals. (A) (B)
0.		Prevalence Index = B/A =
7.		
Shrub Stratum (Plot size: 151R)	A / D = Total Cover5/Z	1 - Rapid Test for Hydrophytic Vegetation
1. LINDERA BENVUEN	ZO Y FAC	
2. LIQUID AMBAR STYRACIFULA		_
3. AIDMINA PRILORA	10 9 FAC	4 - Morphological Adaptations (Provide supporting
4.		data in Remarks or on a separate sheet)
5.		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
6.		_   _
7.		Indicators of hydric soil and wetland hydrology must     be present, unless disturbed or problematic.
els.	# 50 = Total Cover 25/	<i>i</i>
Herb Stratum (Plot size: 5/7)		Definitions of Five Vegetation Strata:
1. <u>V</u> A		Tree – Woody plants, excluding woody vines,
2		approximately 20 ft (6 m) or more in height and 3 in.
3		(7.6 cm) or larger in diameter at breast height (DBH).
4		Sapling – Woody plants, excluding woody vines,
5		approximately 20 ft (6 m) or more in height and less
6		— than 3 in. (7.6 cm) DBH.
		Shrub – Woody plants, excluding woody vines,
7 8.		approximately 3 to 20 ft (1 to 6 m) in height.
0		Herb – All herbaceous (non-woody) plants, including
9		herbaceous vines, regardless of size, and woody
10		plants, except woody vines, less than approximately
11.		_ 3 ft (1 m) in height.
12		Woody vine – All woody vines, regardless of height.
Woody Vine Stratum (Plot size: 3° 'R	0 = Total Cover	
Woody Vine Stratum (Plot size:)  1. SMILAL ROLNDSPULA	60 9 FAL	
		_
2. LONGGRA JAPONTIA	30 9 FAL	
3. TOXILLODENDRON RADICANI	10 M FAC	_
4		Hydrophytic  Vegetation
5		_ Present? Yes W No
	#100 = Total Cover	/20
Remarks: (Include photo numbers here or on a separate si	• ,	
VEGETATION POSSES COMENANTE	•	
ARAMINA LANCE A CONTROL OF ALL PROPERTY OF	. This	,

	cription: (Describe	to the dep				or confirm	the absence of indicators.)
Depth (inches)	Matrix Color (moist)	%		dox Features		1002	Toyture
(inches)	104R 4/3		Color (moist)	%	Type <sup>1</sup>	_Loc²	Texture Remarks
		- n	7 ( 10 00/				very fine sandy Coom
1-8	2,54 5/4	80	2054 5/2	20	D_	M	Very fine Sandy Coan
8-18	1042 6/4	100				_	Loany Very Ale Such
						-	
					· · ·		
	•						
					<del></del>		
	-						
	oncentration, D=Der	oletion, RM	=Reduced Matrix,	MS=Masked	Sand Gra	ains.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil							Indicators for Problematic Hydric Soils <sup>3</sup> :
Histoso			Dark Surfa				2 cm Muck (A10) (MLRA 147)
	pipedon (A2)			Below Surfac			
	listic (A3) en Sulfide (A4)			Surface (S9)		47, 148)	(MLRA 147, 148)
_ ` `	d Layers (A5)		Depleted N	eyed Matrix (I Matrix (F3)	-2)		☐ Piedmont Floodplain Soils (F19) ☐ (MLRA 136, 147)
	uck (A10) (LRR N)			rk Surface (F	6)		Red Parent Material (TF2)
	d Below Dark Surfac	ce (A11)		Dark Surface	•		Very Shallow Dark Surface (TF12)
	ark Surface (A12)	. ,		pressions (F8			Other (Explain in Remarks)
Sandy N	Mucky Mineral (S1) (	LRR N,	iron-Mang	anese Masse	es (F12) (I	RR N,	
	A 147, 148)		MLRA	,			
	Gleyed Matrix (S4)			rface (F13) (			<sup>3</sup> Indicators of hydrophytic vegetation and
	Redox (S5)		Piedmont	Floodplain So	oils (F19)	(MLRA 14	
	d Matrix (S6)						unless disturbed or problematic.
	Layer (if observed) んふ	: -		-			· ·
Type:			<del></del>				
	iches): NA		· <u> </u>				Hydric Soil Present? Yes O No
Remarks:	NO INDICA	79.0 (	DE HYDO	Ti C	0116	DRECA	FAIR
	// U. 3/000 C.S	/ V (C )	01 11100	il si	ULUS	F 12 2 6	
	•						
	•						
,	SEE SI	UE Tral	on w	UUK 017	e_w	DATU	4 FORM
	SER SI	167017	0,0			•• / / •	7 - 1000
						*	
							•
			*				
					•		•
							•



Upland data point wnok017\_u facing North



Upland data point wnok017\_u facing South



Upland data point wnok017\_u soil sample

# WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont

Project/Site: SERP	City/County: NETTOWAY Sampling Date: 08/22/2019
Applicant/Owner: NOWENTON	State: VA Sampling Point: WWO/ 6/85
Investigator(s):	Section, Township, Range: WA
the com	ocal relief (concave, convey, none); NoNE Slone (%): 2-3
Soil Map Unit Name: LOUS BUR & SANDY WAM, ENDOLD	
Are climatic / hydrologic conditions on the site typical for this time of y	
	y disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally pr	
	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	
Hydric Soil Present? Yes No No	Is the Sampled Area within a Wetland? Yes No
Wetland Hydrology Present? Yes No	
Remarks: POINT ESTABLISHED IN NARROW !	ULTLAND SEEP ASSOCIATED WITH STREAM
SNOKO 22. SURROUNDENG UPLAND IS FOREST	VETLAND SEEP ASSOCIATED WITH STREAM TED BUT WETLAND VEL. CONTESTS OF SHRUBS AND
HERBS, ALL 3 CRITTERIA MEN	
PHOTOT: 106-5017 to 5021	
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)	=/
Hydrogen Sulf	
	ospheres on Living Roots (C3) Moss Trim Lines (B16) Reduced Iron (C4) Dry-Season Water Table (C2)
	eduction in Tilled Soils (C6)  Crayfish Burrows (C8)
Drift Deposits (B3)	
Algal Mat or Crust (B4) Other (Explain	n in Remarks) Stunted or Stressed Plants (D1)
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9) Aquatic Fauna (B13)	Microtopographic Relief (D4)  FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches	s):
Water Table Present? Yes No Depth (inches	
Saturation Present? Yes W No Depth (inches	
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos	toe previous inspections) if available:
NA	iso, provious inspectation, in available.
Demayla	(1) to a
SEVERAL PRIMARY AND JECONDARY	HYDROLOGY INDICATORS OBSERVED WETCHED
ASSOCIATION WITH SPRING FEO INTERO	ANTIGAT STOSAM
1100 1100 1100 1100 1100 1100 1100 110	ייונ שהון בוייני
** 2.	
	*

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

SMALL 7COT SILL LOCATED IN NARROLD

DRAIN, VELETATEN PASSES DAMINANCE TEST

Profile Desc Depth	ription: (Describe Matrix	to the dep	Red	ox Features			the absence of indicators.)
(inches)	Color (moist)	%	Color (moist)	- <del>%</del> -	Type <sup>1</sup>	Loc²	COARSE SAND (WITH ERWANTS)
0-18	10 YR 2/2	50	1012 611	_ 50	<u>v</u> _		DYR 6/1 IS MOTIVES ASSOCIATED
				<del></del>			WITH A STRIPPED MATRIX
		<del></del>		<del></del>			
-				<u> </u>	,		
		oletion, RM	I=Reduced Matrix, N	//S=Masked	Sand Gra	ains.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil			Dark Surfac	Se (S7)	•		Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (MLRA 147)
Histosol Histic Er	(A1) pipedon (A2)			Below Surfac	e (S8) <b>(N</b>	ILRA 147,	
Black Hi	stic (A3)		<del></del>	Surface (S9)		47, 148)	(MLRA 147, 148)  Piedmont Floodplain Soils (F19)
	n Sulfide (A4) d Layers (A5)		Depleted M	yed Matrix (F latrix (F3)	2)		(MLRA 136, 147)
2 cm Mu	ick (A10) (LRR N)		Redox Darl	s Surface (F6	-		Red Parent Material (TF2)
_	d Below Dark Surfac ark Surface (A12)	e (A11)		ark.Surface ( ressions (F8			Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
1	lucky Mineral (S1) (	LRR N,		nese Masse		LRR N,	
	\ 147, 148)		MLRA 1	,	MI DA 12	6 122)	<sup>3</sup> Indicators of hydrophytic vegetation and
	Gleyed Matrix (S4) Redox (S5)		<del></del>	face (F13) <b>(N</b> Ioodplain So			
Stripped	Matrix (S6)						unless disturbed or problematic.
Restrictive 1	Layer (if observed)	:	*				
	ches): NB						Hydric Soil Present? Yes <u> </u>
Remarks:		TUNE	iator 5615	77 100F N	M DTA	TA)	AND CONSULT OF COARSC
						-	
SANAY	MATERIAL	WITH	MOTTLES 0)	e ezba	NIL	MATE	RIAL AND AREMS WHIRE
74E	OZEANEL A	MATER I	AL HAS BEE	EN STRI	PRED	AMA	T FROM THE CANDY MATRIX
CREAT	ENG A BLOTH	HY PA	TERN.		*		,
					ż		
			· ·				
					×		
			SKETCH	oN	L)A(J	04018	B_U DATA FORTH
		SÉÉ	) KEI CH	0,0	00.0	<i></i> • • • •	20 MIN TURN
			*				
	9						
			,				



Wetland data point wnok018s\_w facing Northwest



Wetland data point wnok018s\_w facing Southeast



Wetland data point wnok018s\_w soil sample

Project/Site: SECP	City/County: NO776 WAY Sampling Date: 08/22/2015
Applicant/Owner: DOMENTON	State: VA Sampling Point: WNONORS
	1/A
Landform (hillslope, terrace, etc.):     HTU-Scope   Landform   La	ocal relief (concave, convex, none) NOVE Slope (%): 5-/0
Subregion (LRR or MLRA): LRRP Lat: 37, 2393	25217 Long: 18,123374989 Datum: NAO 1983
Soil Map Unit Name: LOUIS BUR & SANDY LOAM, GRODE	
Are climatic. Anydrologic conditions on the site typical for this time of y	
Are Vegetation , Soil , or Hydrology significantly	
Are Vegetation, Soil, or Hydrology naturally pr	
	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No	Is the Sampled Area
Hydric Soil Present?  Wetland Hydrology Present?  Yes  No  No  No  No  No  No  No  No  No  N	within a Wetland? Yes No No
Demonstration of the control of the	- SLOPIE ADJAKENT TO WETCAMO WNOHOLG
to the part of the	I STANK HOUNGERS TO SEE CHILLY
•	
PHOTO 106-5022 TO 5026	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) True Aquatic F	Plants (B14) Sparsely Vegetated Concave Surface (B8)
	fide Odor (C1) Drainage Patterns (B10)
	cospheres on Living Roots (C3) Moss Trim Lines (B16)
	Reduced Iron (C4)  Dry-Season Water Table (C2)
Sediment Deposits (B2)  Drift Deposits (B3)  Recent Iron R  Thin Muck Su	rface (C7)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)  Other (Explain	
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	s): VA
Surface Water Present? Yes No Depth (inches	
Water Table Present?  Yes  No  Depth (inches	5)
Saturation Present? Yes No Depth (inche: (includes capillary fringe)	s): Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial pho	tos, previous inspections), if available:
NA	
Remarks:	HYDROLOLY PRESENT
NO INDECATORS OF WETCAND	
	•

2010	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 35 'R)		Species?		Number of Dominant Species 5
1. PENUS TAEDA	60	4	FAC	That Are OBL, FACW, or FAC:(A)
2. FALUS GRANDIFOCKA	10		FALU	Total Number of Dominant
3. LIQUIDAMBAR STYRAUFLUA		M	FAC	Species Across All Strata: (B)
4. CARTA CORDIFORMIS		$-\mu$	FOW	Percent of Dominant Species / 7
5				Percent of Dominant Species That Are OBL, FACW, or FAC:  (A/B)
6				Prevalence Index worksheet:
7	· <del></del>			
15/2	\$ 120	= Total Co	ver <i>60/24</i>	
Sapling Stratum (Plot size: // / / / / / / / / / / / / / / / / /	20	4	FAL	
1. LIQUIDAMBAN STYPACTEUA		7	FACU	FACW species x 2 = 1 FAC species x 3 = 1
2. FAGUS GRANDIFOKA	- ,	_	MO	
3				FACU species x 4 = 1
4				UPL species $x = 5$
5		_		Column Totals: 0 (A) 5 (B)
6				Prevalence Index = B/A =
7.	a Un		- nle	Hydrophytic Vegetation Indicators:
Shrub Stratum (Plot size: // R)	D 70	= Total Co	ver 298	1 - Rapid Test for Hydrophytic Vegetation
1. CARPENU CAROLINIANA	20	7	FAC	X 2 - Dominance Test is >50%
2. FACUL GRANDI FOLSA	10	Ħ	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>
3. LENDRIA BEN ZOEN	<del>- (2</del>	Ū	FAC	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
				data in Remarks or on a separate sheet)
4				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5				
6				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
7	<del>* 35</del>	= Total Co	Ver/6/7	be present, unless disturbed or problematic.
Herb Stratum (Plot size: 5'R )		- 10101 00	VOI. 1	Definitions of Five Vegetation Strata:
1. <u>NA</u>				Tree – Woody plants, excluding woody vines,
2				approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
3				(7.0 cm) or larger in diameter at breast height (DBH).
4				Sapling – Woody plants, excluding woody vines,
5		1 1		approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
6		1 1		
7				Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
8	-			
9				Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
10.				plants, except woody vines, less than approximately
11				3 ft (1 m) in height.
12.				Woody vine – All woody vines, regardless of height.
70/0	0	= Total Co	ver	Trocky Time of West, Federal Section of West,
Woody Vine Stratum (Plot size: 30 'R )				
1. CAMPILL KAIJILANS	- (0	<u> </u>	FAL	
2. LONGUERA JAPONECA		1	FAC	,
3				The reliance for the control of
4				Hydrophytic Vegetation
5				Present? Yes No No
·	& ()	= Total Co	ver 8/3	
Remarks: (Include photo numbers here or on a separate	sheet.)		:	,
VEHETATEON PASSES DOL	TARAC	6 TE	(m	
עיני שונבתין יוט דיוועייטיין	2,0.7/40	5. / 6	-/.	
				·

SUIL	cription: (Describe	ta the dent	nooded to doc	ument the i	ndicator	or confirm	the absence	of indicate	ors.)	
1		to the dept		dox Features		0. 00			,	
Depth (inches)	Matrix Color (moist)	%	Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks	
(Inches)	10 YR 4/4	1.00	-				JAMOY	Costa	1	
3.10									W/ GRA	1051
2-18	107R5/8	100	<u> </u>				LOMM	277147	10/0.45	020
									74	
		· —— ·			-					
	-						2		NA 14-1-2-	
	oncentration, D=Dep	letion, RM=	Reduced Matrix,	MS=Masked	Sand Gra	ains.			ng, M=Matrix. roblematic H	rdric Soile <sup>3</sup> ,
Hydric Soil				(C-)			_			
Histosol	• •		Dark Surfa		(00) (1	ALDA 447			(A10) <b>(MLRA</b> 1 e Redox (A16)	
	pipedon (A2)			Below Surfa Surface (S9)			140)	oast Prairi MLRA 14		
	istic (A3) en Sulfide (A4)		<del>  </del>	eyed Matrix (	•	147, 140)	ПР		oodplain Soils	(F19)
	d Layers (A5)		Depleted N		-/			(MLRA 1		()
	uck (A10) (LRR N)		_ `	k Surface (F	6)		¹		Material (TF2)	
	d Below Dark Surfac	e (A11)	Depleted D	Oark Surface	(F7)			ery Shallov	w Dark Surface	e (TF12)
Thick D	ark Surface (A12)			oressions (F			c	Other (Expla	ain in Remarks	;)
Sandy N	Mucky Mineral (S1) (I	LRR N,		anese Mass	es (F12) (	LRR N,				
	A 147, 148)		MLRA				3, ,	r i		
	Gleyed Matrix (S4)			rface (F13) (					nydrophytic veg Irology must be	
	Redox (S5)		Pleamont	Floodplain S	olis (F19)	(WILKA 14	,		rbed or proble	
	d Matrix (S6)  Layer (if observed):			ر .			1	illiess dista	ibed of proble	mado.
Type:				£						
	nches): NA						Hydric Soil	Dracant?	Yes O	No.
	icries)				•		Tryuric con	- resent.	103	
Remarks:	TUDE	ATSO!	05 110	10 n.e.	C2-1-	*	• •			
ŀ	NO FUDE	PP ( URC )	01 17 4.	vesi -	SOLLS	DUE	, 10			
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1	-			-		7, 1	SURVEY	itno	ŋ	
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•	/				<del></del>					



Upland data point wnok018\_u facing North



Upland data point wnok018\_u facing South



Upland data point wnok018\_u soil sample

Project/Site: SERP	City/County: NOTTOWAY Sampling Date: 09/23/2014
A A A TAIT IN	State: VA Sampling Point: WNWOIGH W
Applicant/Owner: NOMINION Investigator(s): 5: SWETTER	Section, Township, Range: NA
m. oodgato.(e).	ocal relief (concave, convex, none): NONE Slope (%):
Subregion (LRR or MLRA): LRRP Lat: 37.233	
Soil Map Unit Name: MIXED ALLIVIAL LAND (M	
Soil Map Offic Name. 1119490 7100 110	
Are climatic / hydrologic conditions on the site typical for this time of	
7.10 , ogo	
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	In the Commission Area
Hydric Soil Present? Yes No	Is the Sampled Area within a Wetland? Yes No No
Wetland Hydrology Present? Yes No	
Remarks: POINT ESTABLISHED IN FLOOR	OPLATING OF LITTLE WEST CREEK. ALL 3
CRITICIA MET	
PHOTOS 106-5044 TO 5048	
HYDROLOGY	O I I I I I I I I I I I I I I I I I I I
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply  Surface Water (A1)  True Aquatic	
	Ifide Odor (C1)  Drainage Patterns (B10)
	zospheres on Living Roots (C3) Moss Trim Lines (B16)
	Reduced Iron (C4) Dry-Season Water Table (C2)
· · · · · · · · · · · · · · · · · · ·	Reduction in Tilled Soils (C6) Crayfish Burrows (C8)
Drift Deposits (B3)	
	n in Remarks) Stunted or Stressed Plants (D1) Geomorphic Position (D2)
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inche	
Water Table Present? Yes No Depth (inche	
Saturation Present? Yes No Depth (inche (includes capillary fringe)	es): _\mathcal{N} ft
Describe Recorded Data (stream gauge, monitoring well, aerial pho	otos, previous inspections), if available:
NA	
Remarks: SELVERY TNOT ( NT) & OF WE	TLAND HYDROLUGY PRESENT, CRITERIA MET
SEVERAL INSTIGATION OF WE	TOTALLY TOTALLY, CADILLY,
•	•
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- 1-	Absoluto	Dominor	t Indicator	Daminanaa Taat warkabaati
Tree Stratum (Plot size: 30 12	Absolute % Cove		nt Indicator ? Status	Dominance Test worksheet:
1. ALER RUBRUM	50	<u> </u>	FAL	Number of Dominant Species That Are OBL. FACW, or FAC: (A)
2. LIOUDAMBAR STYRACIFCUA	50	- 1	FAC	That Are OBL, FACW, or FAC: (A)
		- <del>  Y  </del>		Total Number of Dominant
3. LIRIODENDRON TULIPIFERA	15	N	FALU	Species Across All Strata:
4.	-			
5				Percent of Dominant Species That Are OBL, FACW, or FAC:  (A/B)
6.	-			That Are OBL, FACW, or FAC. (A/B)
7				Prevalence Index worksheet:
	in lite	- <del></del>	FO /	Total % Cover of: Multiply by:
Sapling Stratum (Plot size: 151R )	8115	_ = 1 otal Co	over \$8/23	OBL species x 1 =
1. ACER RUBRUM	20	4	FAC	
	20		- J = 10	FACW species x 2 =
2. CARPINUS CAROLENIANA		- 4	FAC	FAC species x 3 =
3. LIQUIDAMBAR STYRAUFUA	15	- 19	FAC	FACU species x 4 = 1
4				UPL species x 5 =
5				Column Totals: 0 (A) 5 (B)
6.				
		-		Prevalence Index = B/A =
7	A CC		79/25	Hydrophytic Vegetation Indicators:
Shrub Stratum (Plot size: 151R)	<u> </u>	_ = Total Co	over <b>2</b> 8/(\	1 - Rapid Test for Hydrophytic Vegetation
1. Corymassum	<b>D</b>	<b>W</b>	1	2 - Dominance Test is >50%
2. VACCENCUM CORTABOJUM				
	20	9	FACW	3 - Prevalence Index is ≤3.0 <sup>1</sup>
3. <u>CAPINUS CAROLINIANA</u>	10	4	FAL	4 - Morphological Adaptations (Provide supporting
4. ACER RUBRUM	10	7	FAC	data in Remarks or on a separate sheet)
5. ILEX OFACA	5	N	FAL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
fi		-	1310	
7		- <del>                                    </del>		<sup>1</sup> Indicators of hydric soil and wetland hydrology must
	à Ur		77/0	be present, unless disturbed or problematic.
Herb Stratum (Plot size: 5'R)	₩ 7 <i>&gt;</i>	_ = Total Co	over23/9	Definitions of Five Vegetation Strata:
rein Stratum (Plot size: 5 (	30	4	FACW	,
1. CAREX INTUMESCENS		- 4		Tree – Woody plants, excluding woody vines,
	1	1 1/1	NI	approximately 20 ft (6 m) or more in height and 3 in.
2. CAREX SP. (NO FRUETENG GOOTES)	10	4	14 50	(7.6 cm) or larger in diameter at breast height (DRH)
		- 1		(7.6 cm) or larger in diameter at breast height (DBH).
3				Sapling – Woody plants, excluding woody vines,
3		<u> </u>		Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
3				Sapling – Woody plants, excluding woody vines,
3				Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
3. 4. 5. 6. 7				Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
3.		1		Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
3. 4. 5. 6. 7				Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including
3.				Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
3. 4. 5. 6. 7. 8. 9. 7. 10				Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including
3. 4. 5. 6. 7. 8. 9. 10. 11.				Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
3. 4. 5. 6. 7. 8. 9. 10. 11. 12.				Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately
3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 2 n/a		= Total Co		Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
3. 4. 5. 6. 7. 8. 9. 10. 11. 12. Woody Vine Stratum (Plot size: 30'k)	• 4o	= Total Co	over 20/8	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
3. 4. 5. 6. 7. 8. 9. 10. 11. 12. Woody Vine Stratum (Plot size: 30 k ) 1. 5 MILAX ROTUNDIFOILA		= Total Co	over 20/8	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
3. 4. 5. 6. 7. 8. 9. 10. 11. 12.  Woody Vine Stratum (Plot size: 30 R) 1. SMILAN ROTUNDIFOLLA 2. VIIIS ROTUNDI FOLIA	• 4o	= Total Co	over 20/8 FAC FAC	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
3. 4. 5. 6. 7. 8. 9. 10. 11. 12. Woody Vine Stratum (Plot size: 30 k ) 1. 5 MILAX ROTUNDIFOILA	• 4o	= Total Co	over 20/8	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.
3. 4. 5. 6. 7. 8. 9. 10. 11. 12.  Woody Vine Stratum (Plot size: 30 R) 1. SMILAN ROTUNDIFOLLA 2. VIIIS ROTUNDI FOLIA	• 4o	= Total Cc	over 20/8 FAC FAC	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.
3. 4. 5. 6. 7. 8. 9. 10. 11. 12.  Woody Vine Stratum (Plot size: 30 R) 1. SMILAN ROTUNDIFOLLA 2. VIIIS ROTUNDI FOLIA	040	У У У	FAC FAC	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.
3. 4. 5. 6. 7. 8. 9. 10. 11. 12.  Woody Vine Stratum (Plot size: 30 R) 1. SMILAN ROTUNDIFOLLA 2. VIIIS ROTUNDI FOLIA	040	У У У	FAC FAC	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.  Hydrophytic Vegetation
3. 4. 5. 6. 7. 8. 9. 10. 11. 12. Woody Vine Stratum (Plot size: 30 R ) 1. 5 MILAX ROTUNDIFOLIA 2. VITIS ROTUNDI FOLIA 3. PARTHENI CISUS QUIN QUE FOLIA 4. 5.	6 40 10 5	У У У	over 20/8 FAC FAC	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.
3. 4. 5. 6. 7. 8. 9. 10. 11. 12.  Woody Vine Stratum (Plot size: 30'R) 1. SMILAX ROTUNDIFOLIA 2. VITIS ROTUNDIFOLIA 3. PARTHEND CESUS QUIN QUE FOLIA 4. 5.  Remarks: (Include photo numbers here or on a separate s	10 5 10 5 120	Y Y 	FAC FAC	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.
3. 4. 5. 6. 7. 8. 9. 10. 11. 12.  Woody Vine Stratum (Plot size: 30'R) 1. SMILAX ROTUNDIFOLIA 2. VITIS ROTUNDIFOLIA 3. PARTHEND CESUS QUIN QUE FOLIA 4. 5.  Remarks: (Include photo numbers here or on a separate s	10 5 10 5 120	Y Y 	FAC FAC	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.
3. 4. 5. 6. 7. 8. 9. 10. 11. 12. Woody Vine Stratum (Plot size: 30 R ) 1. 5 MILAX ROTUNDIFOLIA 2. VITIS ROTUNDI FOLIA 3. PARTHENI CISUS QUIN QUE FOLIA 4. 5.	10 5 10 5 120	Y Y 	FAC FAC	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.
3. 4. 5. 6. 7. 8. 9. 10. 11. 12.  Woody Vine Stratum (Plot size: 30'R) 1. SMILAX ROTUNDIFOLIA 2. VITIS ROTUNDIFOLIA 3. PARTHEND CESUS QUIN QUE FOLIA 4. 5.  Remarks: (Include photo numbers here or on a separate s	10 5 10 5 120	Y Y 	FAC FAC	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.
3. 4. 5. 6. 7. 8. 9. 10. 11. 12.  Woody Vine Stratum (Plot size: 30'R) 1. SMILAX ROTUNDIFOLIA 2. VITIS ROTUNDIFOLIA 3. PARTHEND CESUS QUIN QUE FOLIA 4. 5.  Remarks: (Include photo numbers here or on a separate s	10 5 10 5 120	Y Y 	FAC FAC	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.

Profile Des	cription: (Describe t	to the dep	oth needed to docun	nent the i	ndicator	or confirm	the absence	of indicators.)
Depth	Matrix			x Features		-		
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	_Loc <sup>2</sup>	Texture	Remarks
0-2	10 YR 2/2	100			$\overline{}$		BRUANI	C LITTER / ROOT!
2-8	10 48411	70			_		SANDY	LOAM
2-8	10 42 3/1	30	<b>-</b>		~	-	CRUANI	CL STREAMENE
8-13	10 YR 5/1	99	10 4R 5/8	1	<u>e</u>	PL	SAWOY	60.4%
13-20	10 4K 5/1	100					SANDY	Loan
· J 🔎	10 1K = 11	700					2:31-07	
			-					
	oncentration, D=Depl	etion, RM	=Reduced Matrix, MS	S=Masked	Sand Gra	ains.		=Pore Lining, M=Matrix.
<del>-</del>	Indicators:						Indica	tors for Problematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface					cm Muck (A10) (MLRA 147)
_	pipedon (A2)		Polyvalue Be		, , ,		148) Co	oast Prairie Redox (A16)
	istic (A3)		Thin Dark Su			47, 148)		(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye		F2)		Pi	edmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Mat		· (C)			(MLRA 136, 147)
	uck (A10) (LRR N)	(//4/	Redox Dark S					ed Parent Material (TF2)
_ `	d Below Dark Surface	(ATT)	Depleted Dar				70000	ery Shallow Dark Surface (TF12)
_	ark Surface (A12) Mucky Mineral (S1) <b>(L</b>	DD N	Redox Depre			DD N	. 🎞 🔿	ther (Explain in Remarks)
_	ииску міпегаі (S1) ( <b>L</b> <b>A 147, 148)</b>	KK N,	Iron-Mangane MLRA 136		es (FTZ) <b>(I</b>	rk N,		
	Gleyed Matrix (S4)		Umbric Surfa		MI DA 13	6 122)	3 <sub>Indi</sub>	cators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					etland hydrology must be present,
	Matrix (S6)			ouplain 30	0115 (1-19)	(IVILICA 14		nless disturbed or problematic.
	Layer (if observed):			,			1	liess disturbed of problematic.
Type:								
Depth (in		9					Undria Cail	Present? Yes <u> No  </u>
Remarks:	CHES)						Hydric Soil	Fresent? res No
emarks.	<i>&gt;</i>							
	<i>[</i> -						•	7
	. /			Sun -	EXTRI			· · · · · · · · · · · · · · · · · · ·
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	<u> </u>				•			
							-J	untains and Piedmont – Interim Version
A = = = -	ps of Engineers							



Wetland data point wnok019f\_w facing North



Wetland data point wnok019f\_w facing South



Wetland data point wnok019f\_w soil sample

Project/Site: SERP	City/Cou	nty: NOTTOWAY	<b>/</b> s	ampling Date: 09/23/26/
Applicant/Owner: DOMINION	4			Sampling Point: WWW019.
Investigator(s): J. SWEITLER	. Section.	Township, Range:		
Landform (hillslope, terrace, etc.): Htuswpを		(concave, convex, none		Slope (%): 10-15
Subregion (LRR or MLRA): LRLP Lat	37. 23368809	Coonserve, Convex, Hone	114343080	Datum: NAO 195
Soil Map Unit Name: LOUISURE SANDY WAN				
				on: <u>N.A</u>
Are climatic / hydrologic conditions on the site typical fr	_		f no, explain in Ren	
Are Vegetation, Soil, or Hydrology	7			sent? Yes No
Are Vegetation, Soil, or Hydrology	naturally problematio	? (If needed, ex	plain any answers	in Remarks.)
SUMMARY OF FINDINGS - Attach site m	nap showing samp	ing point location	ns, transects, i	mportant features, etc.
Hydrophytic Vegetation Present? Yes	No 🚱	,		
Hydric Soil Present? Yes	ls ls	the Sampled Area	YesO_	N
Wetland Hydrology Present? Yes	No O	ithin a Wetland?	Yes	No
Remarks: POINT ESTABLISHED IN	cicar til	a. [i-	10 201	
POINT ESTABLISHED IN	CLIARCUI HI	16056086 157	10 m).	
				, -
PHOTOS: 106-5052 70 5054				
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indicato	rs (minimum of two required)
Primary Indicators (minimum of one is required; chec	k all that apply)		Surface Soil Cr	
Surface Water (A1)	True Aquatic Plants (B1	4)	<del>-</del>	ated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Odor (	C1)	Drainage Patte	rns (B10)
Saturation (A3)	Oxidized Rhizospheres	on Living Roots (C3)	Moss Trim Line	s (B16)
Water Marks (B1)	Presence of Reduced Ire	· ·	Dry-Season Wa	ater Table (C2)
Sediment Deposits (B2)	Recent Iron Reduction in	n Tilled Soils (C6)	Crayfish Burrov	
Drift Deposits (B3)	Thin Muck Surface (C7)	(. ) <u> </u>		ble on Aerial Imagery (C9)
Algal Mat or Crust (B4) Iron Deposits (B5)	Other (Explain in Remar	KS) L		ssed Plants (D1)
Inundation Visible on Aerial Imagery (B7)			Geomorphic Po Shallow Aquita	. ,
Water-Stained Leaves (B9)	*	,	Microtopograph	
Aquatic Fauna (B13)			FAC-Neutral Te	
Field Observations:				
Surface Water Present? Yes No	Depth (inches):			
Water Table Present? Yes O No O				
Saturation Present? Yes O No O	Depth (inches):	Wetland Hy	drology Present?	Yes No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring v	vell, aerial photos, previo	us inspections) if availa	ahle:	
NA	, p, p	,	ab. (0.	
Remarks:	175 ALCO 134100	0.10/ 4 5=/	<del>-</del>	
NO INDICATORS OF W	rtland Hydr	ology prese	(NI)	
				v
				,

S and	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 / R )  1. A / A	% Cover	Species?		Number of Dominant Species That Are OBL, FACW, or FAC:(A)
2.	<del></del> -	1 1		Total Number of Dominant Species Across All Strata:  (B)
3				Percent of Dominant Species That Are OBL, FACW, or FAC:  (A/B)
6.				That Are Obt., FACW, of FAC. (AB)
7				Prevalence Index worksheet:
	0 =	= Total Cov	ver	Total % Cover of: Multiply by:
Sapling Stratum (Plot size: 151R - )			_	OBL species x 1 =
1. PINUS TAEDA	50	Y	FAC	FACW species x 2 =
2. ORTDENDRUM ARBOREUM		<u>M</u> .	# (ALLA)	FAC species x 3 =
3	<del></del>		TUPL	FACU species $x 4 = \frac{1}{1}$
4				UPL species $x = 5 = 1$ Column Totals: $0$ $A$ $5$ $B$ $B$
5				Column Totals. (A)
6		$\dashv$		Prevalence Index = B/A =
7	\$ 60	- Total Ca	10x 20/12	Hydrophytic Vegetation Indicators:
Shrub Stratum (Plot size: 151)		- Total Co	veryyrc	1 - Rapid Test for Hydrophytic Vegetation
1 DUBUS ALLEGIAGNEENSTS	80	Y	FACU	2 - Dominance Test is >50%
2 PINUL TARNA	20	W	FAC	3 - Prevalence Index is ≤3.0¹
3. CARYA CORDIFORMIS	20	1	FAC	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
4				data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5				Problematic Hydrophytic Vegetation (Explain)
6.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
7	- 170			be present, unless disturbed or problematic.
Herb Stratum (Plot size: #5 12 )	@ 120	= Total Co	ver <i>6924</i>	Definitions of Five Vegetation Strata:
1. NA				Tree – Woody plants, excluding woody vines,
2				approximately 20 ft (6 m) or more in height and 3 in.
3		1 1		(7.6 cm) or larger in diameter at breast height (DBH).
4.		1 1		Sapling - Woody plants, excluding woody vines,
5				approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
6				
7	<del></del> ;			Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
8		<del>-     -</del>		Herb – All herbaceous (non-woody) plants, including
910.	-	$\blacksquare$		herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately
11.				3 ft (1 m) in height.
12.			· ——	Woody vine – All woody vines, regardless of height.
	0 =	= Total Co	ver	Troody Tillo 7 il Troody Tilloo, Togal aloco of Holgiti.
Woody Vine Stratum (Plot size: 30 h				,
1. <u>NA</u>		-#-		
2		-		
3				Hydrophytic
4				Vegetation
5				Present? Yes No No
		= Total Co	ver	
Remarks: (Include photo numbers here or on a separate	,			
VELGTATION FACES DOMIN	IANUK 1	teir.		

Type: C=Concentration, D=Decletion, RM=Reduced Matrix, MS=Masked Sand Grains.   Texture   Remarks	Profile Des	cription: (Describe	to the dept	h needed to docur	nent the ir	ndicator	or confirm	the absence		oning i onic. <u>11</u>	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  Pydric Soil Indicators:    Histosoil (A1)											
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  Type: C=Concentration, MS=Reduced Matrix, MS=Masked Sand Grains.  Type				Color (moist)	<u> </u>	Type <sup>1</sup>				Remarks	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  Hydric Soil Indicators:    Histosol (A1)			100					my sound			
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  Hydric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  2 cm Muck (A10) (MLRA 147, 148)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  2 cm Muck (A10) (MLRA 147, 148)  Depleted Matrix (F3)  Redox Depressions (F8)  Sandy Muck (A10) (LRR N)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N)  MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Restrictive Layer (if observed):  Type:  MA  Depth (inches):  MA  Remarks:  NO INDICATORS OF HYDRIC SOILS PRESEAT.	2-18	104R 6/4	100					learny sand			
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  Hydric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  2 cm Muck (A10) (MLRA 147, 148)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  2 cm Muck (A10) (MLRA 147, 148)  Depleted Matrix (F3)  Redox Depressions (F8)  Sandy Muck (A10) (LRR N)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N)  MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Restrictive Layer (if observed):  Type:  MA  Depth (inches):  MA  Remarks:  NO INDICATORS OF HYDRIC SOILS PRESEAT.											
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  Hydric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  2 cm Muck (A10) (MLRA 147, 148)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  2 cm Muck (A10) (MLRA 147, 148)  Depleted Matrix (F3)  Redox Depressions (F8)  Sandy Muck (A10) (LRR N)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N)  MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Restrictive Layer (if observed):  Type:  MA  Depth (inches):  MA  Remarks:  NO INDICATORS OF HYDRIC SOILS PRESEAT.								-			
Hydric Soil Indicators:  Histosol (A1) Histosol (A2) Black Histic (A3) Hydrogen Sulfide (A4) Strattlied Layers (A5) Depleted Matrix (F2) Depleted Below Dark Surface (F6) Depleted Below Dark Surface (F6) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N) Sandy Mucky Mineral (S1) (LRR N) Sandy Redox (S5) Stripped Matrix (S6)  Restrictive Layer (if observed): Type: Depth (inches):  NO INDICATORS OF HYDRIC Soils?  Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils (F19) (MLRA 147, 148) Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils. Indicators for Problematic Hydric Soils. Indicators for Problematic Hydric Hydric Soils. Indicators for Problematic Hydric Hydric Hydro		• .									
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Hydric Soil Indicators:  Histosol (A1) Histosol (A2) Black Histic (A3) Hydrogen Sulfide (A4) Strattlied Layers (A5) Depleted Matrix (F2) Depleted Below Dark Surface (F6) Depleted Below Dark Surface (F6) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N) Sandy Mucky Mineral (S1) (LRR N) Sandy Redox (S5) Stripped Matrix (S6)  Restrictive Layer (if observed): Type: Depth (inches):  NO INDICATORS OF HYDRIC Soils?  Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils (F19) (MLRA 147, 148) Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils. Indicators for Problematic Hydric Soils. Indicators for Problematic Hydric Hydric Soils. Indicators for Problematic Hydric Hydric Hydro			·								
Hydric Soil Indicators:  Histosol (A1) Histosol (A2) Black Histic (A3) Hydrogen Sulfide (A4) Strattlied Layers (A5) Depleted Matrix (F2) Depleted Below Dark Surface (F6) Depleted Below Dark Surface (F6) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N) Sandy Mucky Mineral (S1) (LRR N) Sandy Redox (S5) Stripped Matrix (S6)  Restrictive Layer (if observed): Type: Depth (inches):  NO INDICATORS OF HYDRIC Soils?  Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils (F19) (MLRA 147, 148) Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils. Indicators for Problematic Hydric Soils. Indicators for Problematic Hydric Hydric Soils. Indicators for Problematic Hydric Hydric Hydro											
Hydric Soil Indicators:  Histosol (A1) Histosol (A2) Black Histic (A3) Hydrogen Sulfide (A4) Strattlied Layers (A5) Depleted Matrix (F2) Depleted Below Dark Surface (F6) Depleted Below Dark Surface (F6) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N) Sandy Mucky Mineral (S1) (LRR N) Sandy Redox (S5) Stripped Matrix (S6)  Restrictive Layer (if observed): Type: Depth (inches):  NO INDICATORS OF HYDRIC Soils?  Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils (F19) (MLRA 147, 148) Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils. Indicators for Problematic Hydric Soils. Indicators for Problematic Hydric Hydric Soils. Indicators for Problematic Hydric Hydric Hydro											
Hydric Soil Indicators:  Histosol (A1) Histosol (A2) Black Histic (A3) Hydrogen Sulfide (A4) Strattlied Layers (A5) Depleted Matrix (F2) Depleted Below Dark Surface (F6) Depleted Below Dark Surface (F6) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N) Sandy Mucky Mineral (S1) (LRR N) Sandy Redox (S5) Stripped Matrix (S6)  Restrictive Layer (if observed): Type: Depth (inches):  NO INDICATORS OF HYDRIC Soils?  Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils (F19) (MLRA 147, 148) Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils. Indicators for Problematic Hydric Soils. Indicators for Problematic Hydric Hydric Soils. Indicators for Problematic Hydric Hydric Hydro											<del></del>
Hydric Soil Indicators:  Histosol (A1) Histosol (A2) Black Histic (A3) Hydrogen Sulfide (A4) Strattlied Layers (A5) Depleted Matrix (F2) Depleted Below Dark Surface (F6) Depleted Below Dark Surface (F6) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N) Sandy Mucky Mineral (S1) (LRR N) Sandy Redox (S5) Stripped Matrix (S6)  Restrictive Layer (if observed): Type: Depth (inches):  NO INDICATORS OF HYDRIC Soils?  Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils (F19) (MLRA 147, 148) Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils. Indicators for Problematic Hydric Soils. Indicators for Problematic Hydric Hydric Soils. Indicators for Problematic Hydric Hydric Hydro	1T C-C			Deduced M. C. M.				21 11 5			
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Matrix (F2) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6)  Restrictive Layer (if observed): Type: Depth (inches):  No INDSUATORS OF It YORSU (S9) (MLRA 147, 148) Dark Surface (S7) Polyvalue Below Surface (S8) (MLRA 147, 148) Dark Surface (S9) (MLRA 147, 148) Depleted Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F6) Depleted Dark Surface (F7) Redox Dark Surface (F7) Redox Dark Surface (TF12) Depleted Dark Surface (F8) Umbric Surface (F12) (LRR N, MLRA 136, 122) Depleted Dark Surface (F13) (MLRA 136, 122) Depleted Dark Surface (F13) (MLRA 148) Sandy Redox (S5) Stripped Matrix (S4) Depth (inches):  No INDSUATORS OF It YORSU SOILS PRESEAT.			pletion, Rivi=i	Reduced Matrix, Ma	S=Masked	Sand Gra	ains.				Soilo <sup>3</sup>
Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thin Dark Surface (F6) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 136, 147, 148) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S6)  Restrictive Layer (if observed): Type: Depth (inches):  No Indicators of FYDRIC SOILS PRESION.  Polyvalue Below Surface (S8) (MLRA 147, 148) Coast Prairie Redox (A16) (MLRA 147, 148) Piedmont Floodplain Soils (F19) (MLRA 136, 147) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)  Other (Explain in Remarks)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed): Type: Depth (inches):  NO INDICATORS OF FYDRIC SOILS PRESION.				Dark Surface	(97)					-	Solis .
Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) 2 cm Muck (A10) (LRR N) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4) Stripped Matrix (S5) Stripped Matrix (S6)  Restrictive Layer (if observed): Type:  Depth (inches):  NO INDICATORS OF HYDRIC SOILS PRESIGN.						e (S8) (M	ILRA 147.				
Hydrogen Sulfide (A4) Stratified Layers (A5) 2 cm Muck (A10) (LRR N) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 136, 147) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Redox Osh Surface (F13) (MLRA 136, 122) Piedmont Floodplain Soils (F19) (MLRA 136, 147) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)  **Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  **Restrictive Layer (if observed): Type: Depth (inches):  **No INDICATORS OF HYDRIC SOILS PRESEAT.**  **Hydric Soil Present? Yes No Modern Problematics of No. Modern Probl								,			
Stratified Layers (A5) 2 cm Muck (A10) (LRR N) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6)  Restrictive Layer (if observed): Type: Depleted Dark Surface (F13) (MLRA 136, 122) Piedmont Floodplain Soils (F19) (MLRA 148)  Redox Dark Surface (F7) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Dark Surface (F12) Very Shallow Dark Surface (TF12) Very Shallow D							. ,	☐ P			
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 136) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6)  Restrictive Layer (if observed): Type:									(MLRA 136, 1	47)	
Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6)  Restrictive Layer (if observed): Type: Depth (inches):  NO INDICATORS OF HYDRIC SOILS PREJIMA.  Redox Depressions (F8) Iron-Manganese Masses (F12) (LRR N, MLRA 136, 122) JIndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed): Type: NA  Depth (inches):  NO INDICATORS OF HYDRIC SOILS PREJIMA.			- (0.44)		•	•					
Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6)  Restrictive Layer (if observed): Type:			e (A11)							•	(2)
MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Restrictive Layer (if observed):  Type:  Depth (inches):  NO INDICATORS OF HYDRIC SOILS PRESIGN.  MLRA 136, 122)  Jandicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Hydric Soil Present?  Yes No No	_		LRR N.				RR N		uner (Explain in	Remarks)	
Sandy Redox (S5)   Piedmont Floodplain Soils (F19) (MLRA 148)   Wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed): Type:			,			· · · · · · · · · · · · · · · · · · ·	-141414,				
Stripped Matrix (S6)  Restrictive Layer (if observed): Type:				Umbric Surfa	ce (F13) ( <b>I</b>	MLRA 13	6, 122)	<sup>3</sup> Ind	icators of hydro	phytic vegetation	on and
Restrictive Layer (if observed): Type:				Piedmont Flo	odplain Sc	ils (F19)	(MLRA 14				
Type:								u	nless disturbed	or problematic.	
Depth (inches): NO INDICATORS OF ITYORIC SOILS PRESENT.	1										
Remarks: NO INDICATORS OF HYDRIC SOILS PRESENT.	I	10		<del></del>							<b>A</b>
NU INDICATORS OF 179KIC SOLLS PRESIDENT.	Domorlos							1	Present? Ye	es <u> </u>	
SEE SHERLY ON WNOHOLGE W DATA FORM,	Remarks:	NO INDICATO	25 OF	PYDRIC	SOIL	5 P	RESERVE	r.			
SEE SHETCH ON WNOHOLFF W DATA FORM,											
SEE SHETCH ON WNOHOLFF W DATA FORM,											
SEE SHERLY ON WNOHOLFF W DATA FORM,											
SEE SHETCH ON WNOHOLFFLW DATA FORM,											
SEE SHETCH ON WNOHOLFF W DATA FORM,									,		
SEE SMETCH ON WNOHOLFF W DATA FORM,	,	*		*							
SEE SHETCH ON WHOHOLFF W DATA FORM,											
		SER	= SAE	TCH ON	MNOI	4019	f_ W	DATA	FORM.		
		<i>J</i> 04		,					•		
				***	· · · · ·						
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							•				
	,										



Upland data point wnok019\_u facing North



Upland data point wnok019\_u facing South



Upland data point wnok019\_u soil sample

Project/Site: SERP	City/County:	NOTTOWAY	_ Sampling Date: 08/23/2014
Applicant/Owner: DoMINION		State: VA	Sampling Point: WNOKOZO
Investigator(s): 5. SWELTLER	Section, Town	ship, Range: <u>// A</u>	·
Landform (hillslope, terrace, etc.): 5w AUK		ave, convex, none). CONCAL	/丘 Slope (%): <u>1-3</u>
Landform (nilislope, terrace, etc.).	Lat: 37. 232709871	Long: 78,11294133	
Subregion (LRR or MLRA): LRZP Soil Map Unit Name: APPLING CONESS SE	MOY LOOK COLLENIE PINO		4 1 1/2
			iodion:
Are climatic / hydrologic conditions on the site typi		No (If no, explain in	
	significantly disturbed?		'present? Yes No
Are Vegetation, Soil, or Hydrology	naturally problematic?	(If needed, explain any answ	vers in Remarks.)
SUMMARY OF FINDINGS - Attach sit	e map showing sampling	point locations, transect	s, important features, etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Yes	(4.20) NI - (1.2)	Sampled Area a Wetland? Yes	No <u>O</u>
Remarks: POINT ESTA BLISHED	IN DRAINAGE	SWALF THOOKH	CLEARCUT (5-10/2)
ALL 3 CRITERIA MET		7 ((1.50.1)	7.
ACO 3 CIESTIS			
PHOTO1: 106-5075 TO 50	179		
	<u> </u>		
HYDROLOGY Wetland Hydrology Indicators:	,	Secondary Indi	cators (minimum of two required)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required;	check all that apply)		il Cracks (B6)
Surface Water (A1)	True Aquatic Plants (B14)		egetated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Odor (C1)		Patterns (B10)
Saturation (A3)	Oxidized Rhizospheres on Liv	<b>==</b>	Lines (B16)
Water Marks (B1)	Presence of Reduced Iron (C-	4) Dry-Season	n Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reduction in Tille	, , , , , , , , , , , , , , , , , , , ,	ırrows (C8)
Drift Deposits (B3)	Thin Muck Surface (C7)		Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Remarks)	<del>_</del> /	Stressed Plants (D1)
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7)		_	ic Position (D2) juitard (D3)
Water-Stained Leaves (B9)		<del></del>	raphic Relief (D4)
Aquatic Fauna (B13)			al Test (D5)
Field Observations:			
	Depth (inches): // A		
Water Table Present? Yes No _			,
Saturation Present? Yes No (includes capillary fringe)	Depth (inches): NA	Wetland Hydrology Prese	ent? Yes No
Describe Recorded Data (stream gauge, monitor	ring well, aerial photos, previous ins	spections), if available:	
NA			
Remarks: HYDROLOGY APPEAR	S TO BE JEASON	VAL AND DEPEN	PENT DN
	, , , , , , , , , , , , , , , , , , , ,		E PROVEDED
BY A DUL POND LO	CATED SEVERAL	HUNDRED FEET L	IP GRADIENT
			4

<b>VEGETATION</b>	(Five Strata	– Use	scientific	names	of plants.
-------------------	--------------	-------	------------	-------	------------

Sampling Point: WNOK 020 5\_ W

Tree Stratum (Plot size: 30 ' R )	Absolute		Indicator	Dominance Test worksheet:
1. NA	% Cover	Species?	_Status_	Number of Dominant Species
				That Are OBL, FACW, or FAC:(A)
2		-		Total Number of Dominant
·				Species Across All Strata: (B)
4				Percent of Dominant Species /0 0
5				That Are OBL, FACW, or FAC: (A/B)
6				
7				Prevalence Index worksheet:
Sapling Stratum (Plot size: 15 R)	0	= Total Cov	er/er	Total % Cover of:Multiply by:
1. PINUS TAEDA	_60	4	FAL	OBL species x 1 =
2. LIRIONENDRON TULIPIFERA				FACW species x 2 = _1
	_5_	-14	FALU	FAC species x 3 = 1
3				FACU species x 4 = _1
4		井		UPL species x 5 = 1
5				Column Totals: 0 (A) 5 (B)
6				Prevalence Index = B/A =
7	-10		421	Hydrophytic Vegetation Indicators:
Shrub Stratum (Plot size:	0 05	= Total Cov	er 33/13	1- Rapid Test for Hydrophytic Vegetation
1. RHUBVS ARGUTUS	10	Y	FAL	2 - Dominance Test is >50%
2. LI OVED AMBAR STYRACTIONA			FAC	3 - Prevalence Index is ≤3.0¹
3. MAGNOLIA VIRGINIANA		N	FAW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
4. SAMBULUS NIGAR	<u></u>	M	FAW	data in Remarks or on a separate sheet)
		10	PACO	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5		<del></del>		(Explain)
6		+-		<sup>1</sup> Indicators of hydric soil and wetland hydrology must
7	e 6.0			be present, unless disturbed or problematic.
Herb Stratum (Plot size: 5 'R )	9 10	= Total Cov	er 45 18	Definitions of Five Vegetation Strata:
1. DICHANTHELIUM CLANDESTIMM	60	4	FAC	
2. DICHANTIFLI UM DICHOTOMUM	20	N	1710	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
3. JUNIUS EFFUSUS	15	- N		(7.6 cm) or larger in diameter at breast height (DBH).
4. CAREX LURIDA	10	<b>N</b>		Sapling – Woody plants, excluding woody vines,
		<del>-                                      </del>		approximately 20 ft (6 m) or more in height and less
5				than 3 in. (7.6 cm) DBH.
6				Shrub – Woody plants, excluding woody vines,
0	<del></del>			approximately 3 to 20 ft (1 to 6 m) in height.
		<del>-  -  </del> -		Herb – All herbaceous (non-woody) plants, including
9				herbaceous vines, regardless of size, and woody
10 11				plants, except woody vines, less than approximately 3 ft (1 m) in height.
		+-		, , , , , , , , , , , , , , , , , , ,
12.	0 ,,,,		<u></u>	Woody vine - All woody vines, regardless of height.
Woody Vine Stratum (Plot size: 30 7 )	<u>~ 105</u> =	= Total Cov	er 63/21	
1. SMILAY ROTUNDIFULIA	40	4	FAL	
2. LONICERA JAPONICA	30	4	FAL	·
3.		H		
4.				Hydrophytic
5.	•			Vegetation Present? Yes No No
	ô 70 -	Total Cov	er <i>35/</i> /4	Present? Yes No No
Remarks: (Include photo numbers here or on a separate s		- Total COV	55/14	
	•			
VELETATION PASSES DOMI	VANCE	TEST.	TYPI	CAC CLEARUT VELETATION.

Eastern Mountains and Piedmont – Interim Version

Texture

(inches) Color (moist) % 0-6 2.57 6/1 90		%	Type <sup>1</sup>	_Loc <sup>2</sup>	<u>Texture</u>		Remarks	
0-6 2.576/2 90	104R 5/6	10	<u> </u>	PUM	SILT U	OAM	***	
6-18 2.57 6/2 10	0 -	-	-		SILT	LOAM		
<u> </u>								
				-				
	,							
							J-8946	
<sup>1</sup> Type: C=Concentration, D=Depletion,	RM=Reduced Matrix, M	S=Masked	Sand Gr	ains.	<sup>2</sup> Location: Pl	=Pore Linin	g, M=Matrix.	
Hydric Soil Indicators:				,			oblematic Hy	dric Soils³:
Histosol (A1)	Dark Surface	e (S7)			2	cm Muck (A	(10) <b>(MLRA 1</b> 4	<b>1</b> 7)
Histic Epipedon (A2)	Polyvalue Be	elow Surfac	ce (S8) (N	ILRA 147,	148)	oast Prairie	Redox (A16)	
Black Histic (A3)	Thin Dark Su			147, 148)		(MLRA 147		
Hydrogen Sulfide (A4)	Loamy Gleye		<del>-</del> 2)		P		odplain Soils (	F19)
Stratified Layers (A5)	Depleted Ma		C)			(MLRA 136	6, 147) 1aterial (TF2)	
2 cm Muck (A10) (LRR N) Depleted Below Dark Surface (A11	Redox Dark Depleted Da		-				Dark Surface	(TF12)
Thick Dark Surface (A12)	Redox Depre						n in Remarks)	
Sandy Mucky Mineral (S1) (LRR N				LRR N.		tilor (Explain	ir ii i rtomantoj	
MLRA 147, 148)	MLRA 13		( ) /	,				
Sandy Gleyed Matrix (S4)	Umbric Surfa	ace (F13) (I	MLRA 13	6, 122)	<sup>3</sup> Ind	icators of hy	drophytic vege	etation and
Sandy Redox (S5)	Piedmont Flo	oodplain Sc	oils (F19)	(MLRA 14	•		ology must be	
Stripped Matrix (S6)	·				u	nless disturt	oed or problem	natic.
Restrictive Layer (if observed):								
Туре: <u>ЛІА</u>								
Depth (inches): NA					Hydric Soil	Present?	Yes	No <u>O</u>
Remarks:								À
								T
								$\sim$
			1	C				
				Sunve	,			
				Survey	, F.			
					EXTEN			
					EXTEN			
				Now.	EXTEN			
				Now.	EXTEN			
				Now.	EXTEN			
			(A)	Now.	EXTEN			
				Money	ores_W			
				Money	ores_W			
			<b>D</b>	Money	ores_W			
SURVE				Money	ores_W	t-m		
SURVE	Exre		<b>3</b>	Money	EXTEN	t-m		u
SURVE	EXTENT			Money	ores_W	t-m	1NOK 0 ZU-	u
SURVE	EXTENI			Money	ores_W	t-m	100 NOW 0 ZO-	u
SURVIE	EXTENS			Money	ores_W	t-m	1NOK 020-	, il
SURVE	EXTENI			Money	ores_W	t-m	INOKOZO-	il.

Redox Features

Type<sup>1</sup> Loc<sup>2</sup>



Wetland data point wnok020s\_w facing North



Wetland data point wnok020s\_w facing South



Wetland data point wnok020s\_w soil sample

WEILAND DETERMINA	TION DATA FOR	* #		edmont
Project/Site: SERP	City/Cou	inty: NoTrow	A7	Sampling Date: 08/23/201
Applicant/Owner: Dom. TNEON				Sampling Point: WW KOZO
Investigator(s):	Section	Township, Range:	NA	
Landform (hillslope, terrace, etc.): Tok- of - SLOP	Local relief	(concave, convex, non	e): NONE	Slope (%): 0 - 3
Subregion (LRR or MLRA): LRR P Lat:	37. 232491731	6 Long: 78,	112909368	Datum: NA1 198
Soil Map Unit Name: WUZSHAM SANDY WAM	(WK)		NWI classifica	A / A
Are climatic / hydrologic conditions on the site typical for t	his time of year? Yes	<b>1</b> No O (1	f no, explain in Re	
Are Vegetation, Soil, or Hydrology				esent? Yes No No
Are Vegetation, Soil, or Hydrology			collections and answers	. ,
				•
SUMMARY OF FINDINGS – Attach site map	showing samp	ing point location	ns, transects,	important features, etc.
	No Q	s the Sampled Area		.7
	№ <u> </u>	vithin a Wetland?	Yes _	No O
Pomorko:	No	·		
POINT ESTABLISHED IN	respals F	resit at	70 E OF	CONVERCENT
scopes.				
Scope .	A	4		
PHMO3: 106-5065 TO 5069	· · · · · · · · · · · · · · · · · · ·			
HYDROLOGY	-			
Wetland Hydrology Indicators:			Secondary Indicate	ors (minimum of two required)
Primary Indicators (minimum of one is required; check at	I that apply)		Surface Soil C	
	ue Aquatic Plants (B1	4)		etated Concave Surface (B8)
	drogen Sulfide Odor	· /	Drainage Patte	
	ridized Rhizospheres		Moss Trim Lin	
	esence of Reduced Ir			/ater Table (C2)
	ecent Iron Reduction i		Crayfish Burro	- ' '
	in Muck Surface (C7) her (Explain in Rema			ible on Aerial Imagery (C9)
Iron Deposits (B5)	nor (Explain in Rema	[[	Geomorphic P	essed Plants (D1)
Inundation Visible on Aerial Imagery (B7)		a jej	Shallow Aquita	
Water-Stained Leaves (B9)		,		phic Relief (D4)
Aquatic Fauna (B13)			FAC-Neutral T	
Field Observations:		ΙΔ .		
	epth (inches):			
	epth (inches)://			
Saturation Present? Yes No D (includes capillary fringe)	epth (inches): _ · //	Y Wetland Hy	drology Present	? Yes No
Describe Recorded Data (stream gauge, monitoring well	, aerial photos, previo	ous inspections), if avail	able:	
NA		,		
Remarks:				
HYDROLOGY APPEARS TO	be Fed	BY RWOFF	AND 4	SERIONAL
SPRING WHICH WAS DRY	17 700	-		
021			the INVEST	
CRETKELA MET THROUGH PRE	Wire ME	ee		,
Hanney Lee	serve or	SECGNO ARY	INDICATOR	l,
				¥+ .
	· ·			
				&*

Sampling Point: WN HOZO. Fu

3-60	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 R)	% Cover	Species?		Number of Dominant Species 7
1. LEQUEDAMBAR STYRACIFLUA	80	Y	FAL	That Are OBL, FACW, or FAC:(A)
2. ALER RUBRUM	20	W	FAC	
3. NYSA SYCATELA	10	N	FAL	Total Number of Dominant
		_	- J-17 C	Species Across All Strata: (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: (A/B)
6				
_ &				Prevalence Index worksheet:
7	- <u>- 110</u>	<del></del>	/er 5 1/2L	Total % Cover of: Multiply by:
Sapling Stratum (Plot size: // R )	<u>e // c</u>	= Total Cov	/er <b>3 - / C</b> -	OBL species x 1 = _1
	10	4	FAC	FACW species x 2 = 1
1. ULMUS RUBRA	- 10	+	FAC	TACVI species X2 - 1
2. CARPENUS CAROUNTANA		4	ME	FAC species x 3 =
3				FACU species x 4 = _1
4				UPL species x 5 = _1
5.				Column Totals: 0 (A) 5 (B)
		-		(-)
6				Prevalence Index = B/A =
7				Hydrophytic Vegetation Indicators:
10-10	820	= Total Cov	ver/0/4	
Shrub Stratum (Plot size: 15 R)				1 - Rapid Test for Hydrophytic Vegetation
1. ALNUS SERRULATA	30	4	FAON	2 - Dominance Test is >50%
2. ROJA MULTIFLORA	10	N	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>
3 SAMBULUS NIGHRA	- 5	W	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
4. LIRTOPENDRON TULIPSFERA	- <u></u>		FACU	data in Remarks or on a separate sheet)
	5		#AC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. LIQUED AMBAR STYRALIFLUA		_ <u>iv</u>	<u> </u>	
6				1
7.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
	#55°	= Total Cov	/er <b>%/1</b> 1	
Herb Stratum (Plot size: 5'R)		- 10tai 001	20/11	Definitions of Five Vegetation Strata:
1. ATHYRIUM ASPLENOTOES	40	4	FAC.	Tree – Woody plants, excluding woody vines,
2. BUEHMERIA CYLINDRICA	10	M	FACU	approximately 20 ft (6 m) or more in height and 3 in.
			FACE	(7.6 cm) or larger in diameter at breast height (DBH).
3. ARESAEMA TREPHYLLUL		M	HITUM	
4				Sapling – Woody plants, excluding woody vines,
5				approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
6		$\Box$		and o mil (1.0 om) BBTI
7				Shrub – Woody plants, excluding woody vines,
7	- ,	-		approximately 3 to 20 ft (1 to 6 m) in height.
8				Harb All harbassaya (non woody) plants including
9				Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
10				plants, except woody vines, less than approximately
11.				3 ft (1 m) in height.
12.				Manda de de la companya de la compan
	655		78/11	Woody vine – All woody vines, regardless of height.
Woody Vine Stratum (Plot size: 30 '2 )	<u> </u>	= Total Cov	ver colli	
1. SWELAX ROTUNDEFOLIA	40	Y	FAC	
2. CAMPLES RADICANS	<u> 20                                    </u>	17	FAL	,
3. PARTHENDOSSISUS QUIN QUE FOULA	_ /0	N	FAC	
4.				Hydrophytic
5				Vegetation Present? Yes No
·	- <del>- 70</del>		ver <i>35/14</i>	Tes NO
	40 / 4	= Total Cov	ver 33//4	
Remarks: (Include photo numbers here or on a separate	sheet.)			
William mail maries and	-MA/ A L A P	i. Test	NI.	
vegetation passes our	WALA WALA	(دعا ن	31	

SOIL			-,*		Sampling Point: WNKOOF-W

Depth	Matrix			x Features	n the absence		,	
(inches)	Color (moist)	%	Color (moist)	<u>% Type<sup>1</sup> Loc<sup>2</sup></u>	Texture		Remarks	
0-2	104R 4/2	100			silt leam			
2-18	2.5 Y6	2 /00			silt loum			
	,							-
		_,						
					<del> </del>			
		_				***		
							- No. 744/401	
		<u>.                                      </u>			•			
<sup>1</sup> Type: C=C	Concentration, D=De	oletion. RM	1=Reduced Matrix, MS	S=Masked Sand Grains.	<sup>2</sup> Location: Pl	=Pore Lining, I	M=Matrix	
	Indicators:	prodori, rav	T TOUGOGO WALLING WE	indolog Carla Cramo.			ematic Hydric Soil	s³:
Histoso	ol (A1)		Dark Surface	(S7)		cm Muck (A10		
	pipedon (A2)			low Surface (S8) (MLRA 147		Coast Prairie Re		
	listic (A3)			rface (S9) (MLRA 147, 148)		(MLRA 147, 1		
	en Sulfide (A4) ed Layers (A5)		Loamy Gleye Depleted Mat		ĻJ F		olain Soils (F19)	
	uck (A10) (LRR N)		Redox Dark S		Пв	MLRA 136, 1 Red Parent Mate		
	ed Below Dark Surface	ce (A11)		k Surface (F7)			ark Surface (TF12)	
_	ark Surface (A12)		Redox Depre			Other (Explain in		
	Mucky Mineral (S1) (	LRR N,	_	ese Masses (F12) (LRR N,				
	<b>A 147, 148)</b> Gleyed Matrix (S4)		MLRA 136	5) ce (F13) <b>(MLRA 136, 122)</b>	31			
	Redox (S5)			odplain Soils (F19) (MLRA 14			ophytic vegetation a gy must be present,	
	d Matrix (S6)	e .		oopian cono (i 10) (meror i			or problematic.	
Restrictive	Layer (if observed)	:				***************************************		
Type:			<u> </u>					_
Depth (ir	nches): NA	* * * * *			Hydric Soil	Present? Y	es <u>Ø</u> No <u></u>	)_
			•					
Remarks:								
		656	SUGTIAL S	W 111NDH0205	w 1	DATA EV	va M	
		556	SUKTUH &	n wnohozus	_ <b>W</b> _ 1	DATA FO	<b>e</b> m	
		SEE			_ w _ /	DATIA FO	<b>⊄</b> M	
		SEE	SUKTUI E		_ω ,	DATIA FO	<b>e</b> m	
		SEE			_ω ,	DATA FO	<b>∠</b> M	
		5€€			_ W _ (	DATA FO	<b>⊭</b> M	
		5€€			_ W _ 1	DATIA FO	⊄M	
		SEE			_ω ,	DATA FO	<b>e</b> m	
		SEE			_ W _ !	DATA FO	<b>∠</b> M	
		556			_ W _ <i>(</i>	DATA FO	<b>⊭</b> M	
		SEE			_ w _ <i>i</i>	DATIA FO	<b>∞</b> M	
		SEE			_ω ,	DATIA FO	<b>∉</b> M	
		SEE			ω ,	DATA FO	<b>⊵</b> M	
		566			_ W _ (	DATA FO		
		SEE			_ w	DATIA FO	<b>∞</b> M	



Wetland data point wnok020f\_w facing Northwest



Wetland data point wnok020f\_w facing Southeast



Wetland data point wnok020f\_w soil sample

Project/Site: 5ERP	City/County:	NOTTOWAY	Sampling Date:
Applicant/Owner:			ate: VA Sampling Point: WOK O
Investigator(s): 5- SWITTIAL	Section, Town		JA
Landform (hillslope, terrace, etc.): _ おにいらていた			NONE Slope (%): 5-10
Subregion (LRR or MLRA): LLL P Lat:	37.232390290	Long: 78,11	2770737. Datum: NAD 193
Soil Map Unit Name: WORS HAM JANDY L			NWI classification: NA
Are climatic / hydrologic conditions on the site typical for	r this time of year? Yes		, explain in Remarks.)
Are Vegetation, Soil, or Hydrology	significantly disturbed?		,
	naturally problematic?		umstances" present? Yes No
			n any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site ma	ap showing sampling	Joint locations,	transects, important features, etc.
Hydrophytic Vegetation Present? Yes	No Sisthe S	Sampled Area	
Hydric Soil Present?  Wetland Hydrology Present?  Yes  Yes	No within a	a Wetland?	Yes No
	No	-	·
Remarks: UPLAND POINT GITABLISHE	ion Italicap	٤,	
			* *
0101 191			
PHOTO): 116-5070 10 5074			
HYDROLOGY	<u> </u>		
Wetland Hydrology Indicators:		Seco	ondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check			Surface Soil Cracks (B6)
I I I I I I I I I I I I I I I I I I I	Frue Aquatic Plants (B14)		Sparsely Vegetated Concave Surface (B8)
	Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Livi		Drainage Patterns (B10)
	Presence of Reduced Iron (C4	. =	Moss Trim Lines (B16)
	Recent Iron Reduction in Tillec	·	Ory-Season Water Table (C2) Crayfish Burrows (C8)
Drift Deposits (B3)	Thin Muck Surface (C7)		Saturation Visible on Aerial Imagery (C9)
	Other (Explain in Remarks)	1 1	Stunted or Stressed Plants (D1)
Iron Deposits (B5)			Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)	*		Shallow Aquitard (D3)
Aquatic Fauna (B13)			Microtopographic Relief (D4)
Field Observations:			FAC-Neutral Test (D5)
	Depth (inches):NA		
	Depth (inches): A/A	_	
Saturation Present? Yes No No	Depth (inches): NA	_   Wetland Hydro	logy Present? Yes No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring we	ell, aerial photos, previous inst		
NA	and are the first to the first	oodonoj, n avallable	
Remarks:  AD TAINT AND OF	WETLAND HYDR	ALENI W	215 2470
NO INDICATORS OF	VE IUMOU I) AVICE	00007 0%	3) É ZVÉL
*		•	
	\$		

Sampling Point: WNOKO 20\_ U

Tree Stratum (Plot size: 30 (R)	Absolute		nt Indicator	Dominance Test worksheet:
1. LIGIORNORUN TULIPERRA	<u>% Cover</u>	Species	Status FACU	Number of Dominant Species
2. QVIRW ALBA	30	- <del>7</del> - <del>7</del>		That Are OBL, FACW, or FAC:(A)
3. LIQUIDAMBAR STYRACTPUNA	20	7	FACU	Total Number of Dominant Species Across All Strata:
4.			FAC	Species Across All Strata:(B)
5		· <del>     </del>		Percent of Dominant Species
5				Percent of Dominant Species That Are OBL, FACW, or FAC:
6		<del>-  -  </del> -		Prevalence Index worksheet:
	290		over 45/18	Total % Cover of: Multiply by:
Sapling Stratum (Plot size: 1512)		= Total Co	over 45/18	OBL species x1 = 1
1. LIQUID AMBAR STYRACIFWA	40	Y	FAL	FACW species x 2 = _1
2. PINU TABDA	40	¥	FAC	FAC species x 3 =
3. CARYA LORD I FORMES	20	N	FAL	FACU species x 4 =1
4. NYSSA SYLVATELA	10	N	FAL	UPL species x 5 =
5				Column Totals: 0 (A) 5 (B)
6				(A) <u>3</u> (B)
7	-			Prevalence Index = B/A =
	OUD	= Total Co	over55/21	Hydrophytic Vegetation Indicators:
Shrub Stratum (Plot size: 15 2)			. •	1 - Rapid Test for Hydrophytic Vegetation
1. CARPINUI CARUCENIANA	60	7	FAL	2 - Dominance Test is >50%
2. CARTA CORDIFORMIS	20	7	PAC	3 - Prevalence Index is ≤3.0 <sup>1</sup>
3. LIRIODENINAIN TULTPIFERA	20	7	FACU	4 - Morphological Adaptations (Provide supporting
4				data in Remarks or on a separate sheet)
5				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
6				*
7				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
	9 100	= Total Co	over 50/25	be present, unless disturbed or problematic.
Herb Stratum (Plot size: 5 <sup>1</sup> 2)				Definitions of Five Vegetation Strata:
1 <b>N</b> A				Tree – Woody plants, excluding woody vines,
2.				approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
3.				- ' '
4				Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
5				than 3 in. (7.6 cm) DBH.
6				
7				Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
8				
9			- <del></del> -	Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
10.				plants, except woody vines, less than approximately
11				3 ft (1 m) in height.
12		, <u> </u>	.7	Woody vine – All woody vines, regardless of height.
Woody Vine Stratum (Plot size: 30 R	0	= Total Co	over	, , ,
Tready Vine Citatani (Fieldize:	20	Y	ررين	
			FAL	i
2		-		
3				Hydrophytic
4		-		Vagatation
5	40			Present? Yes No No
	e 20	= Total Co	over	,
Remarks: (Include photo numbers here or on a separate	sheet.)			
VECKTATION PASKS DOMENI	المائلا كالملا	EM		
A ECAMINAN KARNI NIWINI	TINDE I	P->1,		

D - "	cription. (Describe	to the depth	necaca to acce	iment the ir	idicator o	r confirm	the absence of i	ndicators.)	
Depth (inches)	Matrix			ox Features		, 3			
<u>(inches)</u>	Color (moist)		Color (moist)	_ %	Type'	Loc <sup>2</sup>	Texture	Remarks	
74	2.5 Y 5/3	100					siltloam		
7-18	2.54614	100					silt loam	Stony	
								,	
							,		
			- 100			~			
	-	<del></del>						T-24	
									—
*									
								- No. 3743	
	Concentration, D=Dep	letion, RM=Re	educed Matrix, M	/IS=Masked	Sand Gra	ins.		re Lining, M=Matrix.	
<u> </u>	Indicators:		·					for Problematic Hydric Soils	<sup>3</sup> :
Histoso			Dark Surfac					Muck (A10) (MLRA 147)	
	pipedon (A2)		Polyvalue B					Prairie Redox (A16)	
-	listic (A3) en Sulfide (A4)	,	Thin Dark S			17, 148)		-RA 147, 148)	
	ed Layers (A5)	,	Loamy Gley Depleted Ma	•	-2)			nont Floodplain Soils (F19)	
	uck (A10) (LRR N)		Redox Dark	. ,	3)			-RA 136, 147) Parent Material (TF2)	
	d Below Dark Surfac	e (A11)	Depleted Da	•				Shallow Dark Surface (TF12)	
	ark Surface (A12)		Redox Depr					(Explain in Remarks)	
Sandy N	Mucky Mineral (S1) (I	LRR N,	Iron-Mangai			RR N,	. —		
	A 147, 148)		MLRA 1	36)					
	Gleyed Matrix (S4)		Umbric Surf	face (F13) <b>(</b> I	MLRA 136	, 122)	<sup>3</sup> Indicato	ors of hydrophytic vegetation and	. t
	Redox (S5)	,	Piedmont FI	loodplain Sc	ils (F19) (	MLRA 14	. •	nd hydrology must be present,	
	d Matrix (S6)  Layer (if observed):						unles	s disturbed or problematic.	
Type:	NA								
	iches): AIA		÷ ,					_	
Remarks:						•	Hydric Soil Pro	sant? Vas 🔘 Na 🚱	<b>)</b>
riciliains.	icites). <u>A</u> 774		_ :				Hydric Soil Pre	sent? Yes O No	<u> </u>
Nemarks.		CoILS	- TAKNI (	CATILLS	DUK	To H			<u> </u>
Nemarks.		SOILS	- IAGOS (	CATORS.	DUK	To H	Hydric Soil Pre		<u> </u>
	No HYDRIC	Solls	- IAGOS (	CATORS.	DUK	To H			<u> </u>
TO		Solls	- INDS	CATORS.	DUK	To H			<u>)                                    </u>
	No HYDRIC	Solls	- INDS	CATORS.	DUK	To H			<u> </u>
	No HYDRIC	solls	- Taros (	CATORS.	DUK	To H			
	No HYDRIC	solls	- Iaros (	CATORS	DUK	To H			
	No HYDRIC						CHA	OMA MATREX	<u> </u>
	No HYDRIC						CHA		<u> </u>
	No HYDRIC	SUKTU					CHA	OMA MATREX	
	No HYDRIC						CHA	OMA MATREX	
	No HYDRIC						CHA	OMA MATREX	
	No HYDRIC						CHA	OMA MATREX	
	No HYDRIC						CHA	OMA MATREX	
	No HYDRIC						CHA	OMA MATREX	
	No HYDRIC						CHA	OMA MATREX	
	No HYDRIC						CHA	OMA MATREX	
	No HYDRIC						CHA	OMA MATREX	
	No HYDRIC						CHA	OMA MATREX	
	No HYDRIC						CHA	OMA MATREX	
	No HYDRIC						CHA	OMA MATREX	
	No HYDRIC						CHA	OMA MATREX	
	No HYDRIC						CHA	OMA MATREX	



Upland data point wnok020\_u facing North



Upland data point wnok020\_u facing South



Upland data point wnok020\_u soil sample

Project/Site: SERP	City/County:	NOTTOWAY	_ Sampling Date: 08/23/2014
Applicant/Owner: DoMINION		State: VA	Sampling Point: WNOKOZO
Investigator(s): 5. SWELTLER	Section, Town	ship, Range: <u>// A</u>	·
Landform (hillslope, terrace, etc.): 5w AUK		ave, convex, none). CONCAL	/丘 Slope (%): <u>1-3</u>
Landform (nilislope, terrace, etc.).	Lat: 37. 232709871	Long: 78,11294133	
Subregion (LRR or MLRA): LRZP Soil Map Unit Name: APPLING CONESS SE	MOY LOOK COLLENIE PINO		4 1 1/2
			iodion:
Are climatic / hydrologic conditions on the site typi		No (If no, explain in	
	significantly disturbed?		'present? Yes No
Are Vegetation, Soil, or Hydrology	naturally problematic?	(If needed, explain any answ	vers in Remarks.)
SUMMARY OF FINDINGS - Attach sit	e map showing sampling	point locations, transect	s, important features, etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Yes	(4.20) NI - (1.2)	Sampled Area a Wetland? Yes	No <u>O</u>
Remarks: POINT ESTA BLISHED	IN DRAINAGE	SWALF THOOKH	CLEARCUT (5-10/2)
ALL 3 CRITERIA MET		7 ((1.401)	7.
ACO 3 CIESTIS			
PHOTO1: 106-5075 TO 50	179		
	<u> </u>		
HYDROLOGY Wetland Hydrology Indicators:	,	Secondary Indi	cators (minimum of two required)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required;	check all that apply)		il Cracks (B6)
Surface Water (A1)	True Aquatic Plants (B14)		egetated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Odor (C1)		Patterns (B10)
Saturation (A3)	Oxidized Rhizospheres on Liv	<b>==</b>	Lines (B16)
Water Marks (B1)	Presence of Reduced Iron (C-	4) Dry-Season	n Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reduction in Tille	, , , , , , , , , , , , , , , , , , , ,	ırrows (C8)
Drift Deposits (B3)	Thin Muck Surface (C7)		Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Remarks)	<del>_</del> /	Stressed Plants (D1)
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7)		_	ic Position (D2) juitard (D3)
Water-Stained Leaves (B9)		<del></del>	raphic Relief (D4)
Aquatic Fauna (B13)			al Test (D5)
Field Observations:			
	Depth (inches): // A		
Water Table Present? Yes No _			,
Saturation Present? Yes No (includes capillary fringe)	Depth (inches): NA	Wetland Hydrology Prese	ent? Yes No
Describe Recorded Data (stream gauge, monitor	ring well, aerial photos, previous ins	spections), if available:	
NA			
Remarks: HYDROLOGY APPEAR	S TO BE JEASON	VAL AND DEPEN	PENT DN
	, , , , , , , , , , , , , , , , , , , ,		E PROVEDED
BY A DUL POND LO	CATED SEVERAL	HUNDRED FEET L	IP GRADIENT
			4

<b>VEGETATION</b>	(Five Strata	– Use	scientific	names	of plants.
-------------------	--------------	-------	------------	-------	------------

Sampling Point: WNOK 020 5\_ W

Tree Stratum (Plot size: 30 ' R )	Absolute		Indicator	Dominance Test worksheet:
1. NA	% Cover	Species?	_Status_	Number of Dominant Species
				That Are OBL, FACW, or FAC:(A)
2		-		Total Number of Dominant
·				Species Across All Strata: (B)
4				Percent of Dominant Species /0 0
5				That Are OBL, FACW, or FAC: (A/B)
6				
7				Prevalence Index worksheet:
Sapling Stratum (Plot size: 15 R)	0	= Total Cov	er/er	Total % Cover of:Multiply by:
1. PINUS TAEDA	_60	4	FAL	OBL species x 1 =
2. LIRIONENDRON TULIPIFERA				FACW species x 2 = _1
	_5_	-14	FALU	FAC species x 3 = 1
3				FACU species x 4 = _1
4		井		UPL species x 5 = 1
5				Column Totals: 0 (A) 5 (B)
6				Prevalence Index = B/A =
7	-10		421	Hydrophytic Vegetation Indicators:
Shrub Stratum (Plot size:	0 05	= Total Cov	er 33/13	1- Rapid Test for Hydrophytic Vegetation
1. RHUBVS ARGUTUS	10	Y	FAL	2 - Dominance Test is >50%
2. LI OVED AMBAR STYRACTIONA			FAC	3 - Prevalence Index is ≤3.0¹
3. MAGNOLIA VIRGINIANA		N	FAW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
4. SAMBULUS NIGAR	<u></u>	M	FAW	data in Remarks or on a separate sheet)
		10	PACO	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5		<del></del>		(Explain)
6		+-		<sup>1</sup> Indicators of hydric soil and wetland hydrology must
7	e 6.0			be present, unless disturbed or problematic.
Herb Stratum (Plot size: 5 'R )	9 10	= Total Cov	er 45 18	Definitions of Five Vegetation Strata:
1. DICHANTHELIUM CLANDESTIMM	60	4	FAC	
2. DICHANTIFLI UM DICHOTOMUM	20	N	1710	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
3. JUNIUS EFFUSUS	15	- N		(7.6 cm) or larger in diameter at breast height (DBH).
4. CAREX LURIDA	10	<b>N</b>		Sapling – Woody plants, excluding woody vines,
		<del>-                                      </del>		approximately 20 ft (6 m) or more in height and less
5				than 3 in. (7.6 cm) DBH.
6				Shrub – Woody plants, excluding woody vines,
0	<del></del>			approximately 3 to 20 ft (1 to 6 m) in height.
		<del>-  -  </del> -		Herb – All herbaceous (non-woody) plants, including
9				herbaceous vines, regardless of size, and woody
10 11				plants, except woody vines, less than approximately 3 ft (1 m) in height.
		+-		, , , , , , , , , , , , , , , , , , ,
12.	0 ,,,,		<u></u>	Woody vine - All woody vines, regardless of height.
Woody Vine Stratum (Plot size: 30 7 )	<u>~ 105</u> =	= Total Cov	er 63/21	
1. SMILAY ROTUNDIFULIA	40	4	FAL	
2. LONICERA JAPONICA	30	4	FAL	·
3.		H		
4.				Hydrophytic
5.	•			Vegetation Present? Yes No No
	ô 70 -	Total Cov	er <i>35/</i> /4	Present? Yes No No
Remarks: (Include photo numbers here or on a separate s		- Total COV	55/14	
	•			
VELETATION PASSES DOMI	VANCE	TEST.	TYPI	CAC CLEARUT VELETATION.

Eastern Mountains and Piedmont – Interim Version

Texture

(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks	
0-6	2.57 6/2	90	104R 5/6	10		PUM	SILT U	OAM		
6-18	2.57 6/2	100		-	-		SILT	LOAM		
4 10	2.51 010		444							
			****							
										-
<sup>1</sup> Type: C=C	oncentration, D=Dep	letion, RM	=Reduced Matrix, MS	S=Masked	Sand Gr	ains.	<sup>2</sup> Location: Pl	=Pore Lining	g, M=Matrix.	
Hydric Soil						,			oblematic Hy	dric Soils³:
Histosol	I (A1)		Dark Surface	(S7)			_ 2	cm Muck (A	10) <b>(MLRA 1</b> 4	<b>4</b> 7)
Histic E	pipedon (A2)		Polyvalue Bel	low Surfac	ce (S8) (N	/ILRA 147,	148)	oast Prairie	Redox (A16)	
	istic (A3)		Thin Dark Su			147, 148)	г—	(MLRA 147		
	en Sulfide (A4)		Loamy Gleye		<del>-</del> 2)		P		odplain Soils (	F19)
Stratified Layers (A5)  2 cm Muck (A10) (LRR N)  Depleted Matrix (F3)  Redox Dark Surface (F6)							п.	(MLRA 136	5, 147) laterial (TF2)	
	uck (A10) (LRR N) d Below Dark Surfac	۵ (۸11)	Depleted Dark		-		7		Dark Surface	/TF12\
	ark Surface (A12)	e (ATT)	Redox Depre						n in Remarks)	
	Mucky Mineral (S1) (I	RR N.	Iron-Mangane			LRR N.		tilor (Explain	i ii i tomanto,	
	A 147, 148)	,	MLRA 136		( ) /	,				
Sandy 0	Gleyed Matrix (S4)		Umbric Surfa	ce (F13) (I	MLRA 13	36, 122)	<sup>3</sup> Ind	icators of hy	drophytic veg	etation and
	Redox (S5)		Piedmont Flo	odplain So	oils (F19)	(MLRA 14	•		ology must be	
	d Matrix (S6)						u	nless disturb	ed or problem	natic.
	Layer (if observed):									
Type:	AIA		<del></del>							
	nches): NA						Hydric Soil	Present?	Yes	No _O_
Remarks:										. <b>À</b>
										}
										$\sim$
					1	Si				
					1	SURVEY	,			
	_			(			EXTEN			
							TYTEN	•		
			_				20205			
				/	, A	MONON	000000			
					\ <b>D</b>					
					\	- 1				
				•						
				_	_ \					
				,						
				,			- 4	سے		
				`			anoZo	t-m		
	Si	(Rue y		,			osonau	t-m		
	Si	rue y	Experie			<b>*</b>	)nonoso	t-m	WOK 020-	u
	Si	ave y	EXTENT			<b>3</b>	osonauc	, Φ <sub>m</sub> , ε-m	100K0Z0-	.u
	Si	rue y	EXTENT			•	Dronoso	F_W	INOKOZO.	. u
	Si	irve y	EXTENT			•	Drougo	\$ w	1NOK 020	u
	Si	rue y	EXTEN			•	OSONOUC	F_W	100 0 20 NOW 1	a k

Redox Features

Type<sup>1</sup> Loc<sup>2</sup>



Wetland data point wnok020s\_w facing North



Wetland data point wnok020s\_w facing South



Wetland data point wnok020s\_w soil sample

WEILAND DETERMINA	TION DATA FOR	* #		edmont
Project/Site: SERP	City/Cou	inty: NoTrow	A7	Sampling Date: 08/23/201
Applicant/Owner: Dom. TNEON				Sampling Point: WW KOZO
Investigator(s):	Section	Township, Range:	NA	
Landform (hillslope, terrace, etc.): Tok- of - SLOP	Local relief	(concave, convex, non	e): NONE	Slope (%): 0 - 3
Subregion (LRR or MLRA): LRR P Lat:	37. 232491731	6 Long: 78,	112909368	Datum: NA1 198
Soil Map Unit Name: WUZSHAM SANDY WAM	(WK)		NWI classifica	A / A
Are climatic / hydrologic conditions on the site typical for t	his time of year? Yes	<b>1</b> No O (1	f no, explain in Re	
Are Vegetation, Soil, or Hydrology				esent? Yes No No
Are Vegetation, Soil, or Hydrology			collections and answers	. ,
				•
SUMMARY OF FINDINGS – Attach site map	showing samp	ing point location	ns, transects,	important features, etc.
	No Q	s the Sampled Area		.7
	№ <u> </u>	vithin a Wetland?	Yes _	No O
Pomorko:	No	·		
POINT ESTABLISHED IN	respals F	resit at	70 E OF	CONVERCENT
scopes.				
Score).	A	4		
PHMO3: 106-5065 TO 5069	· · · · · · · · · · · · · · · · · · ·			
HYDROLOGY	-			
Wetland Hydrology Indicators:			Secondary Indicate	ors (minimum of two required)
Primary Indicators (minimum of one is required; check at	I that apply)		Surface Soil C	
	ue Aquatic Plants (B1	4)		etated Concave Surface (B8)
	drogen Sulfide Odor	· /	Drainage Patte	
	ridized Rhizospheres		Moss Trim Lin	
	esence of Reduced Ir			/ater Table (C2)
	ecent Iron Reduction i		Crayfish Burro	- ' '
	in Muck Surface (C7) her (Explain in Rema			ible on Aerial Imagery (C9)
Iron Deposits (B5)	nor (Explain in Rema	[[	Geomorphic P	essed Plants (D1)
Inundation Visible on Aerial Imagery (B7)		a jej	Shallow Aquita	
Water-Stained Leaves (B9)		,		phic Relief (D4)
Aquatic Fauna (B13)			FAC-Neutral T	
Field Observations:		ΙΔ .		
	epth (inches):			
	epth (inches)://			
Saturation Present? Yes No D (includes capillary fringe)	epth (inches): _ · //	Y Wetland Hy	drology Present	? Yes No
Describe Recorded Data (stream gauge, monitoring well	, aerial photos, previo	ous inspections), if avail	able:	
NA		,		
Remarks:				
HYDROLOGY APPEARS TO	be Fed	BY RWOFF	AND 4	SERIONAL
SPRING WHICH WAS DRY	17 700	-		
021			the INVEST	
CRETKELA MET THROUGH PRE	Wire ME	ee		,
Hanney Lee	serve or	SECGNO ARY	INDICATOR	l,
				¥+ .
	· ·			
				&*

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

Sampling Point: WN HOZO. Fu

3-60	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 R)	% Cover	Species?		Number of Dominant Species 7
1. LEQUEDAMBAR STYRACIFLUA	80	Y	FAL	That Are OBL, FACW, or FAC:(A)
2. ALER RUBRUM	20	W	FAC	
3. NYSA SYCATELA	10	N	FAL	Total Number of Dominant
		_	- J-17 C	Species Across All Strata: (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: (A/B)
6				
_ &				Prevalence Index worksheet:
7	- <u>- 110</u>	<del></del>	/er 5 1/2L	Total % Cover of: Multiply by:
Sapling Stratum (Plot size: // R )	<u>e // c</u>	= Total Cov	/er <b>3 - / 5</b> -	OBL species x 1 = _1
	10	4	FAC	FACW species x 2 = 1
1. ULMUS RUBRA	- 10	+	FAC	TACVI species X2 - 1
2. CARPENUS CAROUNTANA		4	ME	FAC species x 3 =
3				FACU species x 4 = _1
4				UPL species x 5 = _1
5.				Column Totals: 0 (A) 5 (B)
		-		(-)
6				Prevalence Index = B/A =
7				Hydrophytic Vegetation Indicators:
10-10	820	= Total Cov	ver/0/4	
Shrub Stratum (Plot size: 15 R				1 - Rapid Test for Hydrophytic Vegetation
1. ALNUS SERRULATA	30	4	FAON	2 - Dominance Test is >50%
2. ROJA MULTIFLORA	10	N	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>
3 SAMBULUS NIGHRA	- 5	W	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
4. LIRTOPENDRON TULIPSFERA	- <u></u>		FACU	data in Remarks or on a separate sheet)
	5		#AC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. LIQUED AMBAR STYRALIFLUA		_ <u>iv</u>	<u> </u>	
6				1
7.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
	#55°	= Total Cov	/er <b>%/1</b> 1	
Herb Stratum (Plot size: 5'R)		- 10tai 001	20/11	Definitions of Five Vegetation Strata:
1. ATHYRIUM ASPLENOTOES	40	4	FAC.	Tree – Woody plants, excluding woody vines,
2. BUEHMERIA CYLINDRICA	10	M	FACU	approximately 20 ft (6 m) or more in height and 3 in.
			FACE	(7.6 cm) or larger in diameter at breast height (DBH).
3. ARESAEMA TREPHYLLUL		M	HITUM	
4				Sapling – Woody plants, excluding woody vines,
5				approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
6		$\Box$		and o mil (1.0 om) BBTI.
7				Shrub – Woody plants, excluding woody vines,
7	- ,	-		approximately 3 to 20 ft (1 to 6 m) in height.
8				Harb All harbassaya (non woody) plants including
9				Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
10				plants, except woody vines, less than approximately
11.				3 ft (1 m) in height.
12.				Mandandra Allusadada a a a a a a a a a a a a a a a a a
	655		78/11	Woody vine – All woody vines, regardless of height.
Woody Vine Stratum (Plot size: 30 '2 )	<u> </u>	= Total Cov	ver colli	
1. SWELGA ROTUNDEFOLGA	40	Y	FAC	
2. CAMPLES RADICANS	<u> 20                                    </u>	17	FAL	,
3. PARTHENDOSSISUS QUIN QUE FOULA	_ /0	N	FAC	
4.				Hydrophytic
5				Vegetation Present? Yes No
·	- <del>- 70</del>		ver <i>35/14</i>	i resent: res NO
	40 / 4	= Total Cov	ver 33//4	
Remarks: (Include photo numbers here or on a separate	sheet.)			
William and maries and	-MA/ A L A P	i. Test	NI.	
vegetation passes our	WALA WALA	(دعا ن	31	

SOIL			-,*		Sampling Point: WMKOOF-W

Depth	Matrix			x Features	n the absence		,	
(inches)	Color (moist)	%	Color (moist)	<u>% Type<sup>1</sup> Loc<sup>2</sup></u>	Texture		Remarks	
0-2	104R 4/2	100			silt leam			
2-18	2.5 Y6 2	2 /00			silt loum			
	,							-
		_,						
					<del> </del>			
		_				***		
							- No. 74/4/4/	
		<u>.                                      </u>			•			
<sup>1</sup> Type: C=C	Concentration, D=De	oletion. RM	1=Reduced Matrix, MS	S=Masked Sand Grains.	<sup>2</sup> Location: Pl	=Pore Lining, I	M=Matrix	
	Indicators:	prodori, rav	T TOUGOGO WALLING WE	indolog Carla Cramo.			ematic Hydric Soil	s³:
Histoso	ol (A1)		Dark Surface	(S7)		cm Muck (A10		
	pipedon (A2)			low Surface (S8) (MLRA 147		Coast Prairie Re		
	listic (A3)			rface (S9) (MLRA 147, 148)		(MLRA 147, 1		
	en Sulfide (A4) ed Layers (A5)		Loamy Gleye Depleted Mat		<u></u> ⊢⊸ F		olain Soils (F19)	
	uck (A10) (LRR N)		Redox Dark S		Пв	MLRA 136, 1 Red Parent Mate		
	ed Below Dark Surface	ce (A11)		k Surface (F7)			ark Surface (TF12)	
_	ark Surface (A12)		Redox Depre			Other (Explain in		
	Mucky Mineral (S1) (	LRR N,	_	ese Masses (F12) (LRR N,				
	<b>A 147, 148)</b> Gleyed Matrix (S4)		MLRA 136	5) ce (F13) <b>(MLRA 136, 122)</b>	31			
	Redox (S5)			odplain Soils (F19) (MLRA 14			ophytic vegetation a gy must be present,	
	d Matrix (S6)	e .		oopian cono (i 10) (meror i			or problematic.	
Restrictive	Layer (if observed)	:				***************************************		
Type:			<u> </u>					_
Depth (ir	nches): NA	* * * * *			Hydric Soil	Present? Y	es <u>Ø</u> No <u></u>	)_
			•					
Remarks:								
		656	SUGTIAL S	W 111NDH0205	w 1	DATA EV	va M	
		556	SUKTUH &	n wnohozus	_ <b>W</b> _ 1	DATA FO	<b>e</b> m	
		SEE			_ w _ /	DATIA FO	<b>⊄</b> M	
		SEE	SUKTUI E		_ω ,	DATIA FO	<b>e</b> m	
		SEE			_ω ,	DATA FO	<b>∠</b> M	
		5€€			_ W _ (	DATA FO	<b>⊭</b> M	
		5€€			_ W _ 1	DATIA FO	⊄M	
		SEE			_ω ,	DATA FO	<b>e</b> m	
		SEE			_ W _ !	DATA FO	<b>∠</b> M	
		556			_ W _ <i>(</i>	DATA FO	<b>⊭</b> M	
		SEE			_ w _ <i>i</i>	DATIA FO	<b>∞</b> M	
		SEE			_ω ,	DATIA FO	<b>∉</b> M	
		SEE			ω ,	DATA FO	<b>⊵</b> M	
		566			_ W _ <i>(</i>	DATA FO		
		SEE			_ w	DATIA FO	<b>∞</b> M	



Wetland data point wnok020f\_w facing Northwest



Wetland data point wnok020f\_w facing Southeast



Wetland data point wnok020f\_w soil sample

## WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont

Project/Site: 5ERP	City/County:	NOTTOWAY	Sampling Date: 09/23/20
Applicant/Owner:			ate: VA Sampling Point: WOK O
Investigator(s): 5- SWITTIAL	Section, Town		JA
Landform (hillslope, terrace, etc.): _ おにいらていた			NONE Slope (%): 5-10
Subregion (LRR or MLRA): LLL P Lat:	37.232390290	Long: 78,11	2770737. Datum: NAD 193
Soil Map Unit Name: WORS HAM JANDY L			NWI classification: NA
Are climatic / hydrologic conditions on the site typical for	r this time of year? Yes		, explain in Remarks.)
Are Vegetation, Soil, or Hydrology	significantly disturbed?		,
	naturally problematic?		umstances" present? Yes No
			n any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site ma	ap showing sampling	Joint locations,	transects, important features, etc.
Hydrophytic Vegetation Present? Yes	No Sisthe S	Sampled Area	
Hydric Soil Present?  Wetland Hydrology Present?  Yes  Yes	No within a	a Wetland?	Yes No
	No	-	·
Remarks: UPLAND POINT GITABLISHE	ion Italicap	٤,	
			* *
0101 191			
PHOTO): 116-5070 10 5074			
HYDROLOGY	<u> </u>		
Wetland Hydrology Indicators:		Seco	ondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check			Surface Soil Cracks (B6)
I I I I I I I I I I I I I I I I I I I	Frue Aquatic Plants (B14)		Sparsely Vegetated Concave Surface (B8)
	Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Livi		Drainage Patterns (B10)
	Presence of Reduced Iron (C4	. =	Moss Trim Lines (B16)
	Recent Iron Reduction in Tillec	·	Ory-Season Water Table (C2) Crayfish Burrows (C8)
Drift Deposits (B3)	Thin Muck Surface (C7)		Saturation Visible on Aerial Imagery (C9)
	Other (Explain in Remarks)	1 1	Stunted or Stressed Plants (D1)
Iron Deposits (B5)			Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)	*		Shallow Aquitard (D3)
Aquatic Fauna (B13)			Microtopographic Relief (D4)
Field Observations:			FAC-Neutral Test (D5)
	Depth (inches):NA		
	Depth (inches): A/A	_	
Saturation Present? Yes No No	Depth (inches): NA	_   Wetland Hydro	logy Present? Yes No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring we	ell, aerial photos, previous inst		
NA	and are the first to the first	oodonoj, n avallable	
Remarks:  AD TAINT AND OF	WETLAND HYDR	ALENI M	215 2470
NO INDICATORS OF	VE IUMOU I) AVICE	00007	3) É ZVÉL
*		•	
	\$		

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

Sampling Point: WNOKO 20\_ U

Tree Stratum (Plot size: 30 (R)	Absolute		nt Indicator	Dominance Test worksheet:
1. LIGIOGENDRUN TULIFIFELK	<u>% Cover</u>	Species	Status FACU	Number of Dominant Species
2. QVIRW ALBA	30	- <del>7</del> - <del>7</del>		That Are OBL, FACW, or FAC:(A)
3. LIQUIDAMBAR STYRACTPUNA	20	7	FACU	Total Number of Dominant Species Across All Strata:
4.			FAC	Species Across All Strata:(B)
5		· <del>     </del>		Percent of Dominant Species
5				Percent of Dominant Species That Are OBL, FACW, or FAC:  [A/B]
6		<del>-  -  </del> -		Prevalence Index worksheet:
	290		over 45/18	Total % Cover of: Multiply by:
Sapling Stratum (Plot size: 1512)		= Total Co	over 45/18	OBL species x1 = 1
1. LIQUID AMBAR STYRACIFWA	40	Y	FAL	FACW species x 2 = _1
2. PINU TABDA	40	¥	FAC	FAC species x 3 =
3. CARYA LORD I FORMES	20	N	FAL	FACU species x 4 =1
4. NYSSA SYLVATELA	10	N	FAL	UPL species x 5 =
5				Column Totals: 0 (A) 5 (B)
6				(A) <u>3</u> (B)
7	-			Prevalence Index = B/A =
	OUD	= Total Co	over55/21	Hydrophytic Vegetation Indicators:
Shrub Stratum (Plot size: 15 2)			. •	1 - Rapid Test for Hydrophytic Vegetation
1. CARPINUI CARUCENIANA	60	7	FAL	2 - Dominance Test is >50%
2. CARTA CORDIFORMIS	20	7	PAC	3 - Prevalence Index is ≤3.0 <sup>1</sup>
3. LIRIODENINAIN TULTPIFERA	20	7	FACU	4 - Morphological Adaptations (Provide supporting
4				data in Remarks or on a separate sheet)
5				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
6				*
7				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
	9 100	= Total Co	over 50/25	be present, unless disturbed or problematic.
Herb Stratum (Plot size: 5 <sup>1</sup> 2)			, .	Definitions of Five Vegetation Strata:
1 <b>N</b> A				Tree – Woody plants, excluding woody vines,
2.				approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
3.				- ' '
4				Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
5				than 3 in. (7.6 cm) DBH.
6				
7				Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
8				
9			- <del></del>	Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
10.				plants, except woody vines, less than approximately
11				3 ft (1 m) in height.
12		, <u> </u>	.7	Woody vine – All woody vines, regardless of height.
Woody Vine Stratum (Plot size: 30 R	0	= Total Co	over	, , ,
Tready Vine Citatani (Fieldize:	20	Y	ررين	
			FAL	i
2		-		
3				Hydrophytic
4		-		Vagatation
5	40			Present? Yes No No
	e 20	= Total Co	over	,
Remarks: (Include photo numbers here or on a separate	sheet.)			
VECKTATION PASKS DOMENI	المائلا كالملا	EM		
A ECAMINAN KARNI NIWINI	TINDE I	P->1,		

D - "	cription. (Describe	to the depth	necaca to acce	iment the ir	idicator o	r confirm	the absence of i	ndicators.)	
Depth (inches)	Matrix			ox Features		, 3			
O-4	Color (moist)		Color (moist)	_ %	Type'	Loc <sup>2</sup>	Texture	Remarks	
74	2.5 Y 5/3	100					siltloam		
7-18	2.54614	100					silt loam	Stony	
								,	
							,		
			- 100			~			
	-	<del></del>						T-24	
									—
*									
								- No. 3743	
	Concentration, D=Dep	letion, RM=Re	educed Matrix, M	/IS=Masked	Sand Gra	ins.		re Lining, M=Matrix.	
<u> </u>	Indicators:		·					for Problematic Hydric Soils	<sup>3</sup> :
Histoso			Dark Surfac					Muck (A10) (MLRA 147)	
	pipedon (A2)		Polyvalue B					Prairie Redox (A16)	
-	listic (A3) en Sulfide (A4)	,	Thin Dark S			17, 148)		-RA 147, 148)	
	ed Layers (A5)	,	Loamy Gley Depleted Ma	•	-2)			nont Floodplain Soils (F19)	
	uck (A10) (LRR N)		Redox Dark	. ,	3)			-RA 136, 147) Parent Material (TF2)	
	d Below Dark Surfac	e (A11)	Depleted Da	•				Shallow Dark Surface (TF12)	
	ark Surface (A12)		Redox Depr					(Explain in Remarks)	
Sandy N	Mucky Mineral (S1) (I	LRR N,	Iron-Mangai			RR N,	. —		
	A 147, 148)		MLRA 1	36)					
	Gleyed Matrix (S4)		Umbric Surf	face (F13) <b>(</b> I	MLRA 136	, 122)	<sup>3</sup> Indicato	ors of hydrophytic vegetation and	. t
	Redox (S5)	,	Piedmont FI	loodplain Sc	ils (F19) (	MLRA 14	. •	nd hydrology must be present,	
	d Matrix (S6)  Layer (if observed):						unles	s disturbed or problematic.	
Type:	NA								
	iches): AIA		÷ ,					_	
Remarks:						•	Hydric Soil Pro	sant? Vas 🔘 Na 🚱	<b>)</b>
riciliains.	icites). <u>A</u> 774		_ :				Hydric Soil Pre	sent? Yes O No	<u> </u>
Nemarks.		CoILS	- TAKNI (	CATILLS	DUK	To H			<u> </u>
Nemarks.		SOILS	- IAGOS (	CATORS.	DUK	To H	Hydric Soil Pre		<u> </u>
	No HYDRIC	Solls	- IAGOS (	CATORS.	DUK	To H			<u> </u>
TO		Solls	- INDS	CATORS.	DUK	To H			<u>)                                    </u>
	No HYDRIC	Solls	- INDS	CATORS.	DUK	To H			<u> </u>
	No HYDRIC	solls	- Taros (	CATORS.	DUK	To H			
	No HYDRIC	solls	- Iaros (	CATORS	DUK	To H			
	No HYDRIC						CHA	OMA MATREX	<u> </u>
	No HYDRIC						CHA		<u> </u>
	No HYDRIC	SUKTU					CHA	OMA MATREX	
	No HYDRIC						CHA	OMA MATREX	
	No HYDRIC						CHA	OMA MATREX	
	No HYDRIC						CHA	OMA MATREX	
	No HYDRIC						CHA	OMA MATREX	
	No HYDRIC						CHA	OMA MATREX	
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	No HYDRIC						CHA	OMA MATREX	
	No HYDRIC						CHA	OMA MATREX	
	No HYDRIC						CHA	OMA MATREX	
	No HYDRIC						CHA	OMA MATREX	



Upland data point wnok020\_u facing North



Upland data point wnok020\_u facing South



Upland data point wnok020\_u soil sample

# WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

Project/Site: ACP		City/County	NA MOTI	OWAY .	Sampling Date:	11212014
Applicant/Owner: DomINION	E. AL			State: VA	_ Sampling Pate:i	WNOMOO
nvestigator(s): S.GROVE / (	E. BUBB	Section, Towns	hin. Range:	- State.	_ Sampling Point:	<u> </u>
andform (hillslope, terrace, etc.): TE	RRACE Loc	cal relief (concav	le convex none	): NONE	Slope	(%).
Subregion (LRR or MLRA): LRR	P Lat: 37.212	349	Long78	097647	Datum	14165 RY
Soil Map Unit Name: WILICES S	ANDY LOAM, ERC	USD HILL	Y PHASE	N/WI classification	tion: PFM	<u> </u>
Are climatic / hydrologic conditions on the	site typical for this time of year	ar? Yes 🗙	No (If	no evolain in Po	marks)	
Are Vegetation, Soil, or H	vdrology significantly	disturbed?			esent? YesX	, No
Are Vegetation, Soil, or H				plain any answers		NO
SUMMARY OF FINDINGS - Att	ach site map showing	sampling p	oint location	s, transects,	important fea	tures, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes		ampled Area Wetland?	Yes X	No	
D. L.	OUDPLAIN TE	CPOPCC	A	.0.5.05		
AND BEHIND NA		OF S	TREAM			
Wetland Hydrology Indicators:					ors (minimum of tv	vo required)
Primary Indicators (minimum of one is re		(0.4)		Surface Soil C		
Surface Water (A1) High Water Table (A2)	True Aquatic Pla Hydrogen Sulfid		-		etated Concave Su	urface (B8)
Saturation (A3)	Oxidized Rhizos			Drainage Patt Moss Trim Lin		
Water Marks (B1)	Presence of Re				es (BT6) /ater Table (C2)	. 1
Sediment Deposits (B2)	Recent Iron Rec			Crayfish Burro		
Drift Deposits (B3)	Thin Muck Surfa				ible on Aerial Ima	gery (C9)
Algal Mat or Crust (B4)	Other (Explain i	in Remarks)	_		essed Plants (D1)	
Iron Deposits (B5)			_	🔀 Geomorphic F	Position (D2)	
Inundation Visible on Aerial Imager	y (B7)		_	Shallow Aquit	ard (D3)	
Water-Stained Leaves (B9)				Microtopograp		
Aquatic Fauna (B13)			_	FAC-Neutral 7	Гest (D5)	
Field Observations:	· · · · · · · · · · · · · · · · · · ·					
	No X Depth (inches)					
l i	No Depth (inches)				. v V	
Saturation Present? Yes (includes capillary fringe)	No Y Depth (inches)	);	Wetland Hy	drology Present	? Yes <u>X</u>	No
Describe Recorded Data (stream gauge	e, monitoring well, aerial photo	os, previous insp	pe <u>c</u> tions), if avail	able:		
Remarks:		11000	MACO .	4507000	11111 25	
Flow FROM	ADJACENT	SLOPE	AND O	VERSOP	7/06 87	
BANKS E	STREAM					
				•		
						بلر
						, 1
1 1						

Tree Stratum (Plot size:)  1NONE	Absolute Dominant I % Cover Species?	Status	Dominance Test worksheet: Number of Dominant Species
2			That Are OBL, FACW, or FAC: (A)  Total Number of Dominant
3.	-	·	Species Across All Strata: (B)
4			Percent of Dominant Species  That Are OBL FACW or FAC: (A/B)
5			That Are OBL, FACW, or FAC: (A/B)
6.	= Total Cove		Prevalence Index worksheet:
	•		Total % Cover of: Multiply by:
	20% of total cover:_		OBL species x 1 =
Sapling Stratum (Plot size: 5		-	FACW species x 2 =
1. NONE			FAC species x 3 =
2			FACU species x 4 =
3	*		UPL species x 5 =
4	!		Column Totals: (A) (B)
5.			Prevalence Index = B/A =
6	= Total Cove		Hydrophytic Vegetation Indicators:
			1 - Rapid Test for Hydrophytic Vegetation
	20% of total cover:		2 - Dominance Test is >50%
Shrub Stratum (Plot size: 5	1	FACU	$\frac{\cancel{3} - \text{Prevalence Index is } \le 3.0^{1}}{3 - \text{Prevalence Index}}$
1. CORNUS FLORIDA		FAC	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
2 ASIMINA TRILOBA 3 CARPINUS CAROLINIANA		FAC	data in Remarks or on a separate sheet)
3 CKKVINUS CHRUCINITIVIT		FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
4. VACCINIUM CORYMBOSUM		11100	
5. As: 1			<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6	= Total Cov		be present, unless disturbed or problematic.
	_		Definitions of Five Vegetation Strata:
	20% of total cover:		Tree - Woody plants, excluding woody vines,
Herb Stratum (Plot size: )	30 Y	FACW	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
1. ONOCHER SENSIBILIS		PAC	
2. MICROSTEGIUM VIRGINICA 3. CARPINUS CAROLINIANA	$\frac{3}{2}$	FAC	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
		1710	than 3 in. (7.6 cm) DBH.
4			Shrub – Woody plants, excluding woody vines,
6.			approximately 3 to 20 ft (1 to 6 m) in height.
7			Herb – All herbaceous (non-woody) plants, including
8			herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3
9.			ft (1 m) in height.
10	<u> </u>		Woody vine – All woody vines, regardless of height.
11			
	= Total Cov		
	8.5 20% of total cover	: 11- 1	
Woody Vine Stratum (Plot size: 5. 1. LOWCERA JAPONI (A	10 4	FAC	
1. LONICEKH JAPONICH		11,0	
2			
3		<u> </u>	
4			
5			Hydrophytic
	( ) = Total Co	vor	Vegetetien
i Li	20% of total cover		Vegetation Present?  Yes  No

REDUCED PLOT SIZE TO AVOID & SLOPE AND NATURAL STREAM BERM

US Army Corps of Engineers ASTER SPP (3%) MISC GRASSES Eastern Mountains and Piedmont - Version 2.0

Sampling Point: WNOMOOSE

Deptited	Profile Desc	cription: (Describe t	o the dept	h needed to docur	nent the i	ndicator	or confirm	the absence	of indicators.)		U
10   10   17   18   3   3   4   10   10   10   10   10   10   10							12	Tandana	-	) a wa a wika	
Interest				COIOF (MOIST)					<u>-</u>	cemarks	
Type: C-Concentration, D-Depletion, RM-Reduced Matrix, MS-Mesked Sand Grains.  Type: C-Concentration, D-Depletion, RM-Reduced Matrix, MS-Mesked Sand Grains.  Hydric Soil Indicators:  Historal (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfde (A4)  Stratified Layers (A5)  Z em Musk (A10) (LRR N  Depleted Below Dark Surface (S9) (MLRA 147, 148)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Pelyavalue Below Surface (S9) (MLRA 147, 148)  Depleted Below Dark Surface (A12)  Thick Dark Surface (A12)  Depleted Dark Surface (F1)  Depleted Dark Surface (F2)  Sandy Musky Mineral (S1) (LRR N, MLRA 148, 148, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Flemant Hoodplain Salis (F18) (MLRA 148, 148)  Red Parent Material (F21) (MLRA 127, 147)  Restrictive Layer (if observed):  Type:  Depth (inches):  G  SNOM009  SANUM CAR 140, 148  Sandy Redox (S5)  Restrictive Layer (if observed):  Type:  SNOM009  SNOM009  SANUM CAR 140, 148  SNOM009  SANUM CAR 140, 148  SNOM009  SNOM009  SNOM009  SNOM009  SNOM009  SANUM CAR 140, 148  MIRA 136, 149  Mira 136, 147  Mira 148, 149  Mira 147, 148)  Mira 148, 147  Mira 148, 147, 148)  Mira 148, 147  Mira 148, 147  Mira 148, 147  Mira 147, 148  Mir									10405	8 CA1	<u>m</u>
Type: C-Concentration, D-Depletion, RM-Reduced Matrix, MS-Masked Sand Grains.  Thyona Soil Indicators:  Indicators for Problematic Hydric Soils*:  Histosoi (A1)  Histosoi (A2)  Biack Histis (A3)  Hydrogen Sulfate (A4)  Surface (S9) (MLRA 147, 148)  Loamy Glayed Metrix (F3)  2 cm Muck (A10) (LRR N)  Depleted Glavis (K-F3)  A gedix Dark Surface (F9)  Depleted Glavis (K-F3)  Sandy Metry (S1)  Sandy Red (S1)  Loamy Glayed Metrix (F3)  Loamy Glayed Metrix (F3)  Red (A10)  Red (A10)  Red (A10)  Sandy Gleyed Metrix (S4)  Sandy Red (S5)  Sandy Red (S5)  Findheathers of Hydrophylic vegetation and welland hydrology must be present, unless disturbed or problematic.  Red Farent Material (F21) (MLRA 127, 147)  Remarks:   G  SNOM0099  SNOM0099  SNOM 9099  SNOM 90999  SNOM 9099  SNOM 9099  SNOM 9099  SNOM 90999  SNOM 909999  SNOM 909999  SNOM 909999  SNOM 9099999  SNOM 9099999999999999999999999999999999999									CUIRE	NIND -	
Hydric Soil Indicators:  Histoso (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  2 cm Muck (A10) (LRR N)  Depleted Below Dark Surface (S9) (MLRA 147, 148)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136, 142)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136)  Sandy Gleyed Matrix (S6)  Sandy Gleyed Matrix (S6)  Sandy Gleyed Matrix (S6)  Restrictive Layer (if observed):  Type:  Depleted Dark Surface (F12)  Red Parent Material (F21) (MLRA 127, 147)  Hydric Soil Present? Yes No  SNOM009  No  SNOM009  No  SNOM009	10-14	11/16 21/10	18		20		_  //	SH/LIM	1010E	SAIVO	
Hydric Soil Indicators:  Histoso (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  2 cm Muck (A10) (LRR N)  Depleted Below Dark Surface (S9) (MLRA 147, 148)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136, 142)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136)  Sandy Gleyed Matrix (S6)  Sandy Gleyed Matrix (S6)  Sandy Gleyed Matrix (S6)  Restrictive Layer (if observed):  Type:  Depleted Dark Surface (F12)  Red Parent Material (F21) (MLRA 127, 147)  Hydric Soil Present? Yes No  SNOM009  No  SNOM009  No  SNOM009											
Hydric Soil Indicators:  Histoso (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  2 cm Muck (A10) (LRR N)  Depleted Below Dark Surface (S9) (MLRA 147, 148)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136, 142)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136)  Sandy Gleyed Matrix (S6)  Sandy Gleyed Matrix (S6)  Sandy Gleyed Matrix (S6)  Restrictive Layer (if observed):  Type:  Depleted Dark Surface (F12)  Red Parent Material (F21) (MLRA 127, 147)  Hydric Soil Present? Yes No  SNOM009  No  SNOM009  No  SNOM009											
Hydric Soil Indicators:  Histoso (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  2 cm Muck (A10) (LRR N)  Depleted Below Dark Surface (S9) (MLRA 147, 148)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136, 142)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136)  Sandy Gleyed Matrix (S6)  Sandy Gleyed Matrix (S6)  Sandy Gleyed Matrix (S6)  Restrictive Layer (if observed):  Type:  Depleted Dark Surface (F12)  Red Parent Material (F21) (MLRA 127, 147)  Hydric Soil Present? Yes No  SNOM009  No  SNOM009  No  SNOM009											
Hydric Soil Indicators:  Histoso (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  2 cm Muck (A10) (LRR N)  Depleted Below Dark Surface (S9) (MLRA 147, 148)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136, 142)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136)  Sandy Gleyed Matrix (S6)  Sandy Gleyed Matrix (S6)  Sandy Gleyed Matrix (S6)  Restrictive Layer (if observed):  Type:  Depleted Dark Surface (F12)  Red Parent Material (F21) (MLRA 127, 147)  Hydric Soil Present? Yes No  SNOM009  No  SNOM009  No  SNOM009											
Hydric Soil Indicators:  Histoso (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  2 cm Muck (A10) (LRR N)  Depleted Below Dark Surface (S9) (MLRA 147, 148)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136, 142)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136)  Sandy Gleyed Matrix (S6)  Sandy Gleyed Matrix (S6)  Sandy Gleyed Matrix (S6)  Restrictive Layer (if observed):  Type:  Depleted Dark Surface (F12)  Red Parent Material (F21) (MLRA 127, 147)  Hydric Soil Present? Yes No  SNOM009  No  SNOM009  No  SNOM009											
Hydric Soil Indicators:  Histoso (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  2 cm Muck (A10) (LRR N)  Depleted Below Dark Surface (S9) (MLRA 147, 148)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136, 142)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136)  Sandy Gleyed Matrix (S6)  Sandy Gleyed Matrix (S6)  Sandy Gleyed Matrix (S6)  Restrictive Layer (if observed):  Type:  Depleted Dark Surface (F12)  Red Parent Material (F21) (MLRA 127, 147)  Hydric Soil Present? Yes No  SNOM009  No  SNOM009  No  SNOM009											
Hydric Soil Indicators:  Histoso (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  2 cm Muck (A10) (LRR N)  Depleted Below Dark Surface (S9) (MLRA 147, 148)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136, 142)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136)  Sandy Gleyed Matrix (S6)  Sandy Gleyed Matrix (S6)  Sandy Gleyed Matrix (S6)  Restrictive Layer (if observed):  Type:  Depleted Dark Surface (F12)  Red Parent Material (F21) (MLRA 127, 147)  Hydric Soil Present? Yes No  SNOM009  No  SNOM009  No  SNOM009	l ———										
Hydric Soil Indicators:  Histoso (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  2 cm Muck (A10) (MLRA 147, 148)  Depleted Below Dark Surface (S9) (MLRA 147, 148)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136, 142)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136)  Sandy Gleyed Matrix (S6)  Sandy Gleyed Matrix (S6)  Sandy Gleyed Matrix (S6)  Sandy Folory Mineral (S1) (LRR N, MLRA 136, 142)  Sandy Matrix (S6)  Restrictive Layer (if observed):  Type:  Deplett (inches):  Remarks:  Indicators for Problematic Hydric Soils*:  2 cm Muck (A10) (MLRA 147, 148)  Coast Prairie Redox (A16)  (MLRA 147, 148)  Piedernor Floodplain Soils (F19)  (MLRA 136, 147)  Very Shallow Dark Surface (F12)  Cother (Explain in Remarks)  Thick Dark Surface (F13)  MLRA 136, 147)  Very Shallow Dark Surface (F12)  Cother (Explain in Remarks)  Piedernor Hoodplain Soils (F19)  (MLRA 136, 147)  Very Shallow Dark Surface (F12)  Cother (Explain in Remarks)  Piedernor Hoodplain Soils (F19)  And Cast Problematic Hydric Soil Present? Yes No  SNOMDO 9  Indicators of Problematic Hydric Soil F19  (MLRA 147, 148)  Piedernor Hoodplain Soils (F19)  (MLRA 147, 148)  Piedernor Hoodplain Soils (F19)  (MLRA 127, 147)  Indicators of Problematic Hydric Soil Fresent? Yes No  Indicators of Problematic Hydric Soil Present? Yes No  Indicators of Problematic Hydric Soil F19  Indicators of Problematic Hydric Soil F19  Indicators of Problematic Hydric Soil F19  Indicators of Mulk A 147, 148  I	-							21 17 D	Description 1	M. Motris	
Histosol (A1) Histic Epipedon (A2) Black Histo (A3) Hydrogen Sulfidae (A9) Stratified Layers (A5) 2 cm Muck (A10) (LRR N) Depleted Below Dark Surface (S9) (MLRA 147, 148) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (F3) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4) Sandy Mucky Mineral (S1) (LRR N, MLRA 148) Sandy Rodox (S5) Stripped Matrix (S6) Restrictive Layer (if observed): Type: Depth (inches):  Remarks:  Dark Surface (S9) (MLRA 147, 148) (MLRA 147, 148) Pledmont Floodplain Soils (F19) (MLRA 136, 172) Other (Explain in Remarks)  Other (Explain in Remarks)  Pledmont Floodplain Soils (F19) (MLRA 136, 172) Other (Explain in Remarks)  Pledmont Floodplain Soils (F19) Other (Explain in Remarks)  Pledmont Floodplain Soils (F19) Other (Explain in Remarks)  Other (Explain in Remarks)  Pledmont Floodplain Soils (F19) Other (Explain in Remarks)  Other (Explain in Remarks)  Pledmont Floodplain Soils (F19) Other			letion, RM=	Reduced Matrix, M	S=Masked	a Sand G	rains.	Location: Pl	L=Pore Lining, I ators for Proble	vı=ıvıaırıx. ematic Hvdrid	Soils <sup>3</sup> :
Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) 2 cm Muck (A10) (LRR N) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Thick Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N) MLRA 147, 148) Sendy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if Observed): Type: Depth (inches):  Remarks:  Polyvalue Below Surface (S9) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 136, 147) Pledmont Floodplain Soils (F19) (MLRA 136, 147) Very Shellow Dark Surface (TF12) Other (Explain in Remarks)  All Ray (If Observed): Type: Depth (inches):  Remarks:  Red Parent Material (F21) (MLRA 127, 147)  Redox Darks Surface (F81) MLRA 136, 147)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Remarks:  Red Parent Material (F21) (MLRA 127, 147)  Remarks:	1 -			Dark Surfac	e (S7)						
Black Histic (A3) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) 2 cm Muck (A10) (LRR N) Depleted Below Dark Surface (A11) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (F3) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sorty Redox (S5) Siripped Matrix (S6) Restrictive Layer (if observed): Type: Depth (inches):  Remarks:  Thin Dark Surface (S9) (MLRA 147, 148) Loamy Gleyed Matrix (F3) Depthed Bolow Dark Surface (F17) Redox Depressions (F8) Inch-Manganese Masses (F12) (LRR N, MLRA 147, 148) Wetland Hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed): Type: Depth (inches):  Remarks:	17	•				ace (S8) (	MLRA 147				
Loamy Gleyed Matrix (F2) Stratified Layers (A5) 2 cm Muck (A10) (LRR N) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 137, 148) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if observed): Type: Depth (inches):  Remarks:  Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Dark Surface (F6) Depleted Dark Surface (F7) Redox Deressions (F8) Iron-Manganese Masses (F12) (LRR N, MLRA 136, 122) Piedmont Floodplain Soils (F19) MLRA 136, 122) Piedmont Floodplain Soils (F19) Matrix (S6) Restrictive Layer (if observed): Type: Depth (inches):  Remarks:  Loamy Gleyed Matrix (F2) Depth (inches):  SNOM00 9  Loamy Gleyed Matrix (F2) Depth (inches):  SNOM00 9			÷	Thin Dark S	urface (S9	) (MLRA			(MLRA 147, 1	48)	
2 cm Muck (A10) (LRR N) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if observed): Type: Depth (inches):  Remarks:  Redox Dark Surface (F5) Depleted Dark Surface (F7) Deplete	Hydroge	en Sulfide (A4)				(F2)		P	•		9).
Depleted Below Dark Surface (A12) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if observed): Type: Depth (inches):  Remarks:  Depleted Dark Surface (F7) Redox Surface (F7) Redox Depressions (F8) LICHAN MARA 136, 122 Dimbric Surface (F12) (MLRA 136, 122) Dimbric Surface (F13) (MLRA 127, 147) Red Parent Material (F21) (MLRA 127, 147)  Red Parent Material (F21) (MLRA 127, 147)  Remarks:  Remarks:  SNOM009	, <del></del>	-				F6)		1.			- =12)
Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Piedmont Floodplain Soils (F13) (MLRA 136, 122) Depth (inches):  Remarks:  Redox Depressions (F8) Iron-Manganese Masses (F12) (LRR N, MLRA 136, 122) Piedmont Floodplain Soils (F13) (MLRA 136, 122) Piedmont Floodplain Soils (F19) (MLRA 148) Wetland hydrology must be present, unless disturbed or problematic.  Hydric Soil Present? Yes No  SNOM00 9			e (A11)								,
Sandy Mucky Mineral (S1) (LRR N, MLRA 136)  Sandy Redox (S5) Sandy Redox (S5) Stripped Matrix (S6) Pledmont Floodplain Solis (F19) (MLRA 148) Red Parent Material (F21) (MLRA 127, 147)  Restrictive Layer (if observed): Type: Depth (inches):  Remarks:   SNOM00 9  Iron-Manganese Masses (F12) (LRR N, MLRA 136, 122) Umbric Surface (F13) (MLRA 136, 122) Pledmont Floodplain Solis (F19) (MLRA 148) Red Parent Material (F21) (MLRA 127, 147)  Hydric Soil Present? Yes No  SNOM00 9			~ (· · · ·)						•		
Sandy Gleyed Marrix (S4) Sandy Redox (S5) Stripped Marrix (S6) Red Parent Material (F21) (MLRA 136, 122) Stripped Marrix (S6) Restrictive Layer (if observed): Type: Depth (Inches):  Remarks:  Umbric Surface (F13) (MLRA 136, 122) Piedmont Floodplain Soils (F19) (MLRA 148) Wetland hydrology must be present, unless disturbed or problematic.  Hydric Soil Present? Yes No  SNOM00 9			LRR N,			ses (F12)	(LRR N,				
Sandy Redox (S5) Piedmont Floodplain Solls (F19) (MLRA 148) wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed):  Type: Hydric Soil Present? Yes No  Remarks:	1					/8.61 D.0.4	20 422)	3 <sub>lnc</sub>	licators of hydro	onhytic vegeta	tion and
Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) unless disturbed or problematic.  Restrictive Layer (if observed): Type: Depth (inches):  Remarks:   FUR F ST  SNOM 00 91											
Restrictive Layer (if observed): Type: Depth (inches):  Remarks:  G  FORF ST  SNOMDO 9								•			
Depth (Inches):			:								
Depth (Inches):	1	_									
FORFST D WWW.	i	,						Hydric Soi	Present? Y	es X	No
SNOM009				C				\		Λ	47
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Wetland data point wnom005e\_w facing South



Wetland data point wnom005e\_w facing East



Wetland data point wnom005e\_w soil sample

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

Project/Site: ACP	City/County: NE PIOT	OMF   Sampling Date: 9/12/2014
Applicant/Owner: DOMINION ET. AL		State: VA Sampling Point: WNOMOOS
Investigator(s): SGROVE / E. BUBB	Section, Township, Range:	
Landform (hillslope, terrace, etc.): HIUSLOPE		e):
Subregion (LRR or MLRA): LRR P Lat:		08.097680 Datum: W6S84
Soil Map Unit Name: WILKES SANDY LO		SENWI classification: NA
Are climatic / hydrologic conditions on the site typical for t		
Are Vegetation, Soil, or Hydrology		
Are Vegetation, Soil, or Hydrology		Circumstances" present? Yes No No No
, or rightness	_ naturally problematic: (if needed, e.	Apiain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site maj	p showing sampling point location	ns, transects, important features, etc.
Hydrophytic Vegetation Present? Yes	No Is the Sampled Area	
Hydric Soil Present? Yes	is the Sumpled Area	Yes NoX
Wetland Hydrology Present? Yes	No 🔀	
Remarks: HILLSLOPS ABOVE	4 UNOMBOS AND A	SSOCIATED STREAM
& SNOMOO9		
# 3.051.00 J		
PHOTOS: 3247- 8	2751 (211 11 6 6	
HYDROLOGY	3251 SOIL N, E, S,	$\mathcal{U}$
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check a	· ·	Surface Soil Cracks (B6)
		Surface Sur Gracks (B6) Sparsely Vegetated Concave Surface (B8)
	ydrogen Sulfide Odor (C1)	Spaisely vegetated concave Surface (B6) Drainage Patterns (B10)
	exidized Rhizospheres on Living Roots (C3)	
	resence of Reduced Iron (C4)	Dry-Season Water Table (C2)
l :	tecent Iron Reduction in Tilled Soils (C6)	Crayfish Burrows (C8)
·	hin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
1 :	Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)	(Express to the state of the st	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)		Shallow Aquitard (D3)
Water-Stained Leaves (B9)		Microtopographic Relief (D4)
Aquatic Fauna (B13)		FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes No	Depth (inches):	
	Depth (inches):	
Saturation Present? Yes No		Hydrology Present? Yes No X
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring we	ell aerial photos previous inspections) if ava	silable:
Describe Recorded Data (stream gauge, monitoring we	eli, aeriai priotos, previous irispections), ii ava	anabie.
Remarks:		,
		لمر

25	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30	% Cover	Species?	Status PACU	Number of Dominant Species That Are OBL, FACW, or FAC:  (A)
CARYA CLABRA	15	<del>\</del>	FACU	Mat Ale OBL, I ACW, of I AC.
3		<del></del>		Total Number of Dominant Species Across All Strata:
4				Percent of Dominant Species
5	-			That Are OBL, FACW, or FAC: (A/B)
6	~~~			Prevalence Index worksheet:
20		= Total Cov		Total % Cover of: Multiply by:
50% of total cover: <u>3</u> 2	<u>.</u> \$ 20% o	f total cover	13	OBL species x1=
Sapling Stratum (Plot size: 15	á		- 4 -	FACW species x 2 =
1. ACER RUBRUM	25	· * .	FAC	FAC species x 3 =
2. FAGUS GRANDIFOLIA	15	<u> </u>	FACU	FACU species x 4 =
CARYA GLABRA	15	<u> </u>	MACU	UPL species x 5 =
4. CERCIS CANADENSIS	15	_ *	FACU	Column Totals: (A) (B)
5. LIQUIDAMBAR STYRACIFLYA	10	N	FAC	Coldilli Totals(A)
6. ACER RUBRUM	5	N	FAC	Prevalence Index = B/A =
	85	= Total Co	ver	Hydrophytic Vegetation Indicators:
50% of total cover: 42	5 20% c	of total cover	:_17	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 15				2 - Dominance Test is >50%
1. CORNUS FURIDA	10	Y	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>
CARYA GLARRA	5	<del>\</del>	FACU	4 - Morphological Adaptations (Provide supporting
DAM CEDALS CONTADENSIS	5	<u> </u>	FACU	data in Remarks or on a separate sheet)
4. ACER RUBRUM	3	<u> </u>	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
	<u> 23</u>		_ ^	Definitions of Five Vegetation Strata:
50% of total cover:	S 20% (	of total cove	r. 2.2	Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5				approximately 20 ft (6 m) or more in height and 3 in.
1. RUBUS FLAGELLARIS	3	À	PACU	(7.6 cm) or larger in diameter at breast height (DBH).
2. CERCIS CANADENSIS	1.	Ń	PACU	Sapling – Woody plants, excluding woody vines,
3. STREPTOPUS LANEEULATA	t	N	PAC	approximately 20 ft (6 m) or more in height and less
4. QUERCUS RUBRA		N	FACU	than 3 in. (7.6 cm) DBH.
5				Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
6				,   ''
7				Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
8				plants, except woody vines, less than approximately 3
9				ft (1 m) in height.
10	-			Woody vine – All woody vines, regardless of height.
11		= Total C		
	3 000	of total cov	. ^	
50% of total cover:	20%	or roral covi	=1	-
Woody Vine Stratum (Plot size: 30 )  1. LONICERA JAPUNICA	E	\/	FAC	
			1100	-
2 <u>P</u>				-
3				<del>-</del>
4				-
5	_	T-1-10		Hydrophytic
		= Total C		Vegetation Present? Yes No
50% of total cover:	20%	of total cov	er:	-
Remarks: (Include photo numbers here or on a separat	e sheet.)			

^			

IL									oint: <u> </u>
ofile Desc	cription: (Describe t	o the depth			r or confirm	the absence of	of indicators	s.)	
epth	Matrix Color (moist)		Redo Color (moist)	ox Features %Type <sup>1</sup>	Loc²	Texture		Remarks	
nches) U	10 YR 3/3	99	Color (moist)			LM		Tromana	
)- <u>4</u>						SAILM	CIAL	SAN	(1)
1-9_		99							
1-16	104R 5/6	99	,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,,		<del></del>	SA/LM	<u> PINE</u>	SANC	)
		. <u>: </u>							
				-					
ype: C=C	Concentration, D=Dep	letion, RM=F	Reduced Matrix, N	MS=Masked Sand	Grains.	<sup>2</sup> Location: Pl			
	Indicators:								lydric Soils <sup>3</sup> :
Histoso	ol (A1)		Dark Surfac				cm Muck (A		
Histic E	pipedon (A2)			Below Surface (S8)		, 148) C	oast Prairie		
	listic (A3)			Surface (S9) (MLR.	A 147, 148)	, n	(MLRA 147		c (E10)
	en Sulfide (A4)			yed Matrix (F2)		P	iedmont Flo MLRA 136)		S (F 19)
	ed Layers (A5)		Depleted M			\/	ery Shallow		re (TF12)
<del></del>	luck (A10) (LRR N)	- (011)	Redox Dark				ther (Explai		
-	ed Below Dark Surfac	e (A11)		ark Surface (F7)		C	nijei (Expiai	II III INGILIAN	,
	Dark Surface (A12)	L D.D. M	Redox Dep		o) (I DD N				
	Mucky Mineral (S1) (	LRR N,		nese Masses (F12	2) (L.R.R. IV,				
	RA 147, 148)		MLRA 1	face (F13) (MLRA	136 122)	3Ind	icators of hy	drophytic ve	egetation and
	Gleyed Matrix (S4)			Floodplain Soils (F			etland hydrol		
	Redox (S5) ed Matrix (S6)			t Material (F21) (M			less disturbe		
	Layer (if observed)		1100 1 01011	e maconar (r = r) (m		1			
	Layer (il observed)	,					•		
Type: _	· · · · · · · ·					Hydric Soi	Present?	Yes	No X
1	inches):					1194110 001			
lemarks:				• •					
	<ff< td=""><td>: J/ F0</td><td>orm for</td><td>SKETCH</td><td></td><td></td><td></td><td></td><td></td></ff<>	: J/ F0	orm for	SKETCH					
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Upland data point wnom005\_u facing North



Upland data point wnom005\_u facing East



Upland data point wnom005\_u soil sample

# WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site:A	CΡ		City/C	ounty: NA	NOTTOU	VAY s	Sampling Date:	9/12/2014
Applicant/Owner: DO	MINIOI	U ET. AL			Sta	ate: VA	Sampling Point	t: <u>WNOM</u> 000
Investigator(s): S.GR	OVE /	E. BUBB	Sectio	on, Township, R	ange —			1
Landform (hillslope, terrac	ra etc.). 7	FRRACE	Local reli	ief (concave, co	nvex, none):	CONCA	VE Slop	oe (%): <u> </u>
Subregion (LRR or MLRA	LR R	P Lat:	37,20787.	<b>3</b>	ona: -78,	096100	<b>2</b> Datum	: WG584
Soil Map Unit Name:	MIXED	ALLUVIAL	LAND			NWI classifica		
Are climatic / hydrologic c				ok V No		, explain in Re		
Are Vegetation, S				,			esent? Yes	<b>C</b> No
Are Vegetation, S	oil, o	r Hydrology	naturally problem			in any answers	,	
Are vegetation, 3	oii, o	r riyarology	Hatarany problem			3	-	•
SUMMARY OF FIN	DINGS -	Attach site map	showing san	npling point	locations,	transects,	important fe	atures, etc.
Hydrophytic Vegetation Hydric Soil Present? Wetland Hydrology Pre	<u>.</u>	Yes	No No No	Is the Sampl within a Wet		Yes	No	-
Remarks: PFO TOE OF	999991 25A	AND ON NG SICI FOCIATED PHOTOS 30	PES WITH	TH LO	NG R MOLO	UNS	CAF51) 	
HYDROLOGY					· .			
Wetland Hydrology In					Sec		tors (minimum of	two required)
Primary Indicators (mir	nimum of one					Surface Soil		0 (00)
Surface Water (A1	)		rue Aquatic Plants		×	Sparsely Vec	etated Concave	Surface (B8)
X High Water Table	(A2)		ydrogen Sulfide O			Drainage Pat		
Saturation (A3)			xidized Rhizosphe		.oots (C3)	Moss Trim Li	nes (616) Water Table (C2)	,
Water Marks (B1)	()		resence of Reduce lecent Iron Reducti		Ic (C6) X	Crayfish Buri		′
Sediment Deposit			hin Muck Surface		is (CO)		sible on Aerial In	nagery (C9)
Drift Deposits (B3) Algal Mat or Crust			ther (Explain in Re			_	tressed Plants (D	1
Iron Deposits (B5)			(27)	•	<u>×</u>	Geomorphic	Position (D2)	
Inundation Visible		agery (B7)			_	_ Shallow Aqu	itard (D3)	
X Water-Stained Le		5 5					aphic Relief (D4)	
Aquatic Fauna (B					<del>,</del>	_ FAC-Neutral	Test (D5)	
Field Observations:								
Surface Water Presen	it? Yes	S No	Depth (inches):					
Water Table Present?		s_ <b>X</b> _ No					<b>Y</b>	
Saturation Present?	Yes	s_X_ No	Depth (inches):	0	Wetland Hyd	Irology Prese	nt? Yes X	No
(includes capillary frin Describe Recorded D	ge) ata (stream ç	auge, monitoring w	ell, aerial photos, p	previous inspect	ions), if availal	ble:		
Remarks:	ACS IA	IATER IN	MANY	AREAS	SOF	COMPL	EX.	
BRAIDE	D DRI	TINAGE	PATTERA	US THI	2006H	1005	- · <b>,</b>	
								-
	-							
								1

= Total Cover

it (1 m) in height.

Woody vine - All woody vines, regardless of height.

MANY OBLIGATES

ELSEWHERE IN Y

SMALL AREA OF PEM

IN UTILITY ROW

Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3

Hydrophytic Vegetation Present?

Yes No\_\_\_\_

50% of total covér: 26-5 20% of total cover: 10.6

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

US Army Corps of Engineers ELM, GRN ASH

5% ASTER SPP; No ID 5% HERBS No IO

Eastern Mountains and Piedmont – Version 2.0

$\sim$	38
$\sim$	

SOIL		***						Sampling Point: WNOMO
Profile Desc	ription: (Describe t	o the dep	th needed to docur	nent the ir	ndicator	or confirm	the absence of	of indicators,)
Depth	Matrix	<u> </u>	Redo	x Features				
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	_Type <sup>1</sup>	_Loc <sup>2</sup>	Texture	Remarks
0-3	10YR 22	98	10YR 4/6	70		PUM	LM	<del></del> 1
2-8	10 yr 3/2	40	10 YR 4/6	<u> 30</u>		PU/M	LM_	COMBINED MATRIX
2-8	10 YR 411	<u> 30</u>						COMBINED MATRIX
8-11	10 YR 4/1	70	10 YR 4/6	25	_	PLIM	SALIM	FINE SAND
i.	•		,					
			***************************************					
				<del></del>				
<del></del>								
1			-		-			
'Type: C=Co	oncentration, D=Depl	etion, RM	=Reduced Matrix, M	S=Masked	Sand G	rains.		=Pore Lining, M=Matrix.
Histosol			Dark Surface	o (C7)				tors for Problematic Hydric Soils <sup>3</sup> :
	oipedon (A2)		Dark Surface Polyvalue Be		re (S8) (	MI RA 147		cm Muck (A10) (MLRA 147) past Prairie Redox (A16)
Black Hi			Thin Dark S					(MLRA 147, 148)
Hydroge	en Sulfide (A4)		Loamy Gley	ed Matrix (				edmont Floodplain Soils (F19)
	d Layers (A5)		🔀 Depleted Ma					(MLRA 136, 147)
	uck (A10) (LRR N)	(0.7.7)	Redox Dark					ery Shallow Dark Surface (TF12)
	d Below Dark Surfac ark Surface (A12)	e (A11)	Depleted Da Redox Depr				01	ther (Explain in Remarks)
	ark Sunace (A12) Mucky Mineral (S1) (I	RR N	Iron-Mangar			(I RR N.		
_	A 147, 148)		MLRA 1		oo ( <u>.</u> ,	(=:::::::::::::::::::::::::::::::::::::		
Sandy 0	Gleyed Matrix (S4)		Umbric Surf	ace (F13)	(MLRA 1	(36, 122)		لر icators of hydrophytic vegetation and
	Redox (S5)		Piedmont Fl					tland hydrology must be present,
	d Matrix (S6)		Red Parent	Material (F	21) <b>(M</b> L	RA 127, 147	7) unl	ess disturbed or problematic.
1 :	Layer (if observed)	•						
Type: Depth (in	achos):						Hydric Soil	Present? Yes No
Remarks:								,
Kemaks.	AUGER	PLUI	NGES AF	TER	1) "	UNA	BLE 90	PULL PLUG
N	IORTH A	٧D	WEST P.	ERIN	NET	ER O	F COM	PLEX SOILS
	NARE CH	ARA	TRAST	C. 0	e i	= 19	INDICA	TOR
MORE CHARACTERISTIC OF FIG INDICATOR								
SOME AREAS WITH MUCK LAYER								
31	INE ALL	, ,_			9,1			
			•					
								•
				-				
			•					



Wetland data point wnom006f\_w facing North



Wetland data point wnom006f\_w facing East



Wetland data point wnom006f\_w soil sample

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

Project/Site: ACP	- AND LAIDT	range alialant
Applicant/Owner: DOMINION ET AL	City/County: Troot	roway Sampling Date: 9/12/201
Investigator(s): S.GROVE / E.BUBB		_ State: <b>V A</b> Sampling Point: <u>W N O M O C</u>
landform /billolone towers etc.)	Section, Township, Range:	- 4440 A U C 1-
Landform (hillslope, terrace, etc.): HILLSLOPE	Local relief (concave, convex, nor	ne): 20/00 A V Slope (%): 20
Subregion (LRR or MLRA): LRR P Lat: 3	1. 0/633 Long: 1/	8.073836 Datum: WGS 89
Soil Map Unit Name: WILKES SANDY LOAN		
Are climatic / hydrologic conditions on the site typical for this	•	
Are Vegetation, Soil, or Hydrology sign	_	Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology na		explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map s	nowing sampling point location	ons, transects, important features, etc.
Hydrophytic Vegetation Present?  Yes No Hydric Soil Present?  Yes No	is the Sampled Area	Yes NoX
Wetland Hydrology Present? Yes No		165100
Domarko		
HILLSLOPE ADJACENT	TO PFO & W	NOMOOS AND
STREAM SNOMO/O		
	PHOTUS	3259, 3263 SOIL, MES, W
HYDROLOGY		300 1- 00:05 00:01 1-13, 10
Wetland Hydrology Indicators:	cot opply)	Secondarý Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all the		Surface Soil Cracks (B6)
	Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
	ogen Sulfide Odor (C1)	Drainage Patterns (B10)
	ized Rhizospheres on Living Roots (C3) ence of Reduced Iron (C4)	Moss Hill Lines (BTo) Dry-Season Water Table (C2)
	ent Iron Reduction in Tilled Soils (C6)	Crayfish Burrows (C8)
	Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
	er (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)	,	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)		Shallow Aquitard (D3)
Water-Stained Leaves (B9)		Microtopographic Relief (D4)
Aquatic Fauna (B13)		FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes No Dep	oth (inches):	
Water Table Present? Yes No Dep	oth (inches):	
	oth (inches): Wetland	Hydrology Present? Yes No X
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, a	aerial photos, previous inspections), if av	ailable:
Describe Recorded Data (Stream gauge, monitoring well, to	dental photos, previous inspections,, il av	allable.
	<u>-</u>	
Remarks:		
		1
		The state of the s

Absolute Dominant Indicator Tree Stratum (Plot size: 30 )	Dominance Test worksheet:
1. LIRIDOENDRON TULIPIFERA 60 Y FACU	Number of Dominant Species That Are OBL, FACW, or FAC:  (A)
2 QUERCUS ALBA 35 X PACU	That Are OBL, FACW, or FAC: (A)
3. LIQUIDAMBAR STYRACIFLUA 20 N PAC	Total Number of Dominant
4. CARPINUS CAROLINIANA S N FAC	Species Across All Strata: (B)
	Percent of Dominant Species
5	That Are OBL, FACW, or FAC: (A/B)
6	Prevalence Index worksheet:
$\frac{1 \partial O}{\partial t} = \text{Total Cover}$	
50% of total cover: 60 20% of total cover: 34	Total % Cover of: Multiply by:
Sapling Stratum (Plot size: 15	OBL species x 1 =
1 CARPINUS CAROLINIANA 50 Y. PAC.	FACW species x 2 =
2. CER CIS CANADENSIS AS N FACU	/ FAC species x 3 =
3. ASIMINA TRILOBA 10 N FAC	FACU species x 4 =
4	UPL species x 5 =
	Column Totals: (A) (B)
04	
0	Prevalence Index = B/A =
U2 ( Total Cover	Hydrophytic Vegetation Indicators:
50% of total cover: 42.5 20% of total cover: 25.8	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size; 1)	2 - Dominance Test is >50%
1. CARPINUS CAROVINIANA 30 Y. PAC	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2 QUERCUS ALBA 15 Y FACU	4 - Morphological Adaptations (Provide supporting
3. CERCIS CANADENSIS 5 N FACU	data in Remarks or on a separate sheet)
4. JUNIPERUS VIRGINIANA 5 N FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5.	
6	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
= Total Cover	be present, unless disturbed or problematic.
	Definitions of Five Vegetation Strata:
50% of total cover: 27.5 20% of total cover: 11	Tree - Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 )	approximately 20 ft (6 m) or more in height and 3 in.
1. CARPINUS CAROLINIANA 15 Y FAC	(7.6 cm) or larger in diameter at breast height (DBH).
2 RUBUS PLAGELLARIS 10 Y FACY	Sapling – Woody plants, excluding woody vines,
3. HAPTURE PROCESSAS 5 FAC	approximately 20 ft (6 m) or more in height and less
4. POLYSTICHUM ACROSTCHOIDSS S Y. FACU	than 3 in. (7.6 cm) DBH.
5	Shrub - Woody plants, excluding woody vines,
6	approximately 3 to 20 ft (1 to 6 m) in height.
7	Herb – All herbaceous (non-woody) plants, including
8.	herbaceous vines, regardless of size, and woody
9.	plants, except woody vines, less than approximately 3 ft (1 m) in height.
10.	
11.	Woody vine All woody vines, regardless of height.
50% of total cover: 12.5 20% of total cover: 5	
Woody Vine Stratum (Plot size: 30 )	
1, 31110117	
2. LONICGRA TAPONICA 10 Y PAC	
3. AMPHICARPAEA BRACTEATA 5 Y FAC	
4	
5	Hydrophytic
= Total Cover	Hydrophytic Vegetation
50% of total cover: 12.5 20% of total cover: 5	Present? Yes No
Remarks: (Include photo numbers here or on a separate sheet.)	/
5% ASTER NO ID SCATIFIED BLACK	WACNUT

Profile Description: (Describe to the	depth needed to document the indicator or confirm t	the absence of indicators.)
Depth Matrix (inches) Color (moist) %	Redox Features Color (moist) % Type <sup>1</sup> Loc <sup>2</sup>	Texture Remarks
0-5 104R 3/3 9		LM
	<u> </u>	1 1/1
-14 10YR 414 98	<u> </u>	L/1
<u> </u>		
<del>                                     </del>		
	,	
	DM Daduard Matrix MS_Macked Sand Grains	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
<u> </u>	n, RM=Reduced Matrix, MS=Masked Sand Grains.	Indicators for Problematic Hydric Soils <sup>3</sup> :
ydrīc Soil Indicators:	Dark Surface (S7)	2 cm Muck (A10) (MLRA 147)
Histosol (A1)	Polyvalue Below Surface (S8) (MLRA 147,	
Histic Epipedon (A2) Black Histic (A3)	Thin Dark Surface (S9) (MLRA 147, 148)	(MLRA 147, 148)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Piedmont Floodplain Soils (F19)
Stratified Layers (A5)	Depleted Matrix (F3)	(MLRA 136, 147)
2 cm Muck (A10) (LRR N)	Redox Dark Surface (F6)	Very Shallow Dark Surface (TF12)
Depleted Below Dark Surface (A1	Depleted Dark Surface (F7)	Other (Explain in Remarks)
Thick Dark Surface (A12)	Redox Depressions (F8)	
Sandy Mucky Mineral (S1) (LRR	N, Iron-Manganese Masses (F12) (LRR N,	
MLRA 147, 148)	MLRA 136) Umbric Surface (F13) (MLRA 136, 122)	<sup>3</sup> Indicators of hydrophytic vegetation and
Sandy Gleyed Matrix (S4) Sandy Redox (S5)	Piedmont Floodplain Soils (F19) (MLRA 14	<del>-</del>
Stripped Matrix (S6)	Red Parent Material (F21) (MLRA 127, 147	· ·
Restrictive Layer (if observed):		
Type:		
Depth (inches):		Hydric Soil Present? Yes No
Y pro	PEN UNABLE TO PEN SNOMOIO  WNOMOOG  VILLE  V	THE PLUG > 14" DEEP
¥	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	501
JS Army Corps of Engineers		Eastern Mountains and Piedmont – Version 2



Upland data point wnom006\_u facing North



Upland data point wnom006\_u facing East



Upland data point wnom006\_u soil sample

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

Project/Site: Southeast Reliability Project	City/County: NA/Nottoway Sampling Date: 8/16/2014
Applicant/Owner: Dominion Transmission	State: VA Sampling Point: wnok101f_v
	Section, Township, Range: NA
•	cal relief (concave, convex, none): concave Slope (%): 2
Subregion (LRR or MLRA): LRR P Lat: 37.203051	Long: -78.090209 Datum: NAD1983
Soil Map Unit Name: Mixed alluvial land, poorly drained, freq	uently flooded NWI classification: PFO1A
Are climatic / hydrologic conditions on the site typical for this time of ye	
Are Vegetation Soil, or Hydrology significantly	
Are Vegetation , Soil , or Hydrology naturally pro	• • • • • • • • • • • • • • • • • • • •
Are vegetation, soil, or rivarology naturally pre	biomatic: (ii needed, explain any answers in Nemarks.)
SUMMARY OF FINDINGS – Attach site map showing	sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes	
Hydric Soil Present? Yes No	Is the Sampled Area within a Wetland? Yes No
Wetland Hydrology Present? Yes V No	
Remarks:	
	t to SNOK100 and at toe of opposing slope. Evidence of
spillover of creek from recent storms throughout wetland	
	arrow and overtopping/cut through in many areas. Use upland
	d falls on 10-15% slope and has significant impacts from cattle.
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) True Aquatic Pl	ants (B14) Sparsely Vegetated Concave Surface (B8)
Hydrogen Sulfid	de Odor (C1)
Saturation (A3) Oxidized Rhizo	spheres on Living Roots (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of Re	duced Iron (C4) Dry-Season Water Table (C2)
1 <del>_</del>	duction in Tilled Soils (C6) Crayfish Burrows (C8)
Drift Deposits (B3)	
Algal Mat or Crust (B4) Under (Explain	
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)	Shallow Aquitard (D3)
Water Stamod Edaves (BS)	Microtopographic Relief (D4)
Aquatic Fauna (B13) Field Observations:	FAC-Neutral Test (D5)
Surface Water Present? Yes No Depth (inches)	
Water Table Present?  Yes No Depth (inches)  Saturation Present?  Yes No Depth (inches)	
(includes capillary fringe)	Wetland nydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photo	s, previous inspections), if available:
Remarks:	and little and constation in complete Catamatad soils in account
low-lying areas within complex. Hydrology indicator met	es and little-no vegetation in complex. Saturated soils in several
liow-tyling areas within complex. Trydrology indicator met.	

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

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft )		Species?		Number of Dominant Species
1. Acer rubrum	60	<u>Y</u>	FAC	That Are OBL, FACW, or FAC: 8 (A)
2. Fraxinus pennsylvanica	50	<u>Y</u>	FACW	Total Number of Dominant
3. Plantus occidentalis	10		FACW	Species Across All Strata: 8 (B)
4				
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6				
	120	= Total Cov	er	Prevalence Index worksheet:
50% of total cover: 60	20% of	total cover-	24	Total % Cover of: Multiply by:
Sapling Stratum (Plot size: 15 ft )	2070 01	total cover.		OBL species x 1 =
1. Ulmus americana	5	Υ	FACW	FACW species x 2 =
				FAC species x 3 =
2				FACU species x 4 =
3				UPL species x 5 =
4				Column Totals: (A) (B)
5				Dravelence Index D/A
6	5	= Total Cov		Prevalence Index = B/A =
				Hydrophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Vegetation
50% of total cover:	20% of	total cover:		
Shrub Stratum (Plot size: 15 ft )	00		E40	2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹
1. Lindera benzoin	30	<u>Y</u>	FAC FAC	l <del>=</del>
2. Viburnum dentatum				4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
3. Ligistrum vulgare 4. Acer negundo	5 20	<u>Y</u>	FACU FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
·· <u> </u>			FAC	
5				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
		= Total Cov		Definitions of Five Vegetation Strata:
50% of total cover: 27.5	20% of	total cover:	11	Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft )				approximately 20 ft (6 m) or more in height and 3 in.
1. Leersia virginica	50	<u>Y</u>	FACW	(7.6 cm) or larger in diameter at breast height (DBH).
2. Persicaria pennsylvanica	5		FACW	Sapling – Woody plants, excluding woody vines,
3. Sanicula odorata	2		FACU	approximately 20 ft (6 m) or more in height and less
4. Lindera benzoin	2		FAC	than 3 in. (7.6 cm) DBH.
5. Persicaria virginiana	3		FAC	Shrub – Woody plants, excluding woody vines,
6. Boehmeria cylindrica	3		FACW	approximately 3 to 20 ft (1 to 6 m) in height.
7. Acer negundo	2		FAC	Herb – All herbaceous (non-woody) plants, including
8				herbaceous vines, regardless of size, and woody
9				plants, except woody vines, less than approximately 3 ft (1 m) in height.
10				
11.				Woody vine – All woody vines, regardless of height.
	66	= Total Cov	er	
50% of total cover: <u>33</u>		total cover:		
Woody Vine Stratum (Plot size: 30 ft )	2070 01	total covor.		
1. Lonicera japonica	15	Υ	FAC	
2 Toxicodendron radicans	20	Y	FAC	
4				
5	35	Tatal Cau		Hydrophytic
17 -		= Total Cov		Vegetation Present?  Yes  No
50% of total cover: 17.5		total cover:		100
Remarks: (Include photo numbers here or on a separate s Many sand/silt covered bare areas within wash		umerous	herb spe	ecies in low densities (collectively < 10%)

Sampling Point: wnok101f\_w

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth	Matrix		Redo	x Feature	es 1	. 2	_	
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks
8-0	7.5 YR 3/4	95	7.5 YR 4/6	3	<u> </u>	<u>M</u>	LM	fine sand and silt
8-14	7.5 YR 5/2	40	7.5 YR 4/6	30	<u>C</u>	<u>M</u>	SA/LM	25% of matrix 7.5 YR 4/1, fine s
<sup>1</sup> Type: C=C	Concentration, D=Dep	oletion, RM	=Reduced Matrix, MS	S=Maske	d Sand Gr	ains.	<sup>2</sup> Location: P	L=Pore Lining, M=Matrix.
Histoso Histic E Black F Hydrog Stratifie 2 cm M Deplete Thick D Sandy F Sandy F Sandy F Strippe	Epipedon (A2)  Ilistic (A3)  en Sulfide (A4)  and Layers (A5)  uck (A10) (LRR N)  and Below Dark Surface  ark Surface (A12)  Mucky Mineral (S1) ( A 147, 148)  Gleyed Matrix (S4)  Redox (S5)  d Matrix (S6)	LRR N,	Dark Surface Polyvalue Be Thin Dark Su Loamy Gleye Depleted Mat Redox Dark S Depleted Dar Redox Depre Iron-Mangane MLRA 13: Umbric Surfa Piedmont Flo	low Surface (SS of Matrix trix (F3) Surface (dk Surface (dk Surface) Sur	(F2) (MLRA (F2) (F6) (F6) (F8) (F8) (MLRA 13 (MLRA 13 (F19)	LRR N, 66, 122) (MLRA 14	148)	ators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (MLRA 147)  Coast Prairie Redox (A16)  (MLRA 147, 148)  Piedmont Floodplain Soils (F19)  (MLRA 136, 147)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)  dicators of hydrophytic vegetation and etland hydrology must be present, alless disturbed or problematic.
	Layer (if observed)	:		•				·
Type: <u>N</u>								
Depth (ir	nches):						Hydric Soil	I Present? Yes V No No
lo	ocations in compl	ex meet	criteria based on	soil ind	dicator F	19. Berr	m comprise	pleted matrix, many other d primarily of fine sands and silt, ic soils indicator met.



Wetland data point wnok101f\_w facing North



Wetland data point wnok101f\_w facing South



Wetland data point wnok101f\_w soil sample

This upland point is shared by both wnok100f\_w and wnok101f\_w.

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

Project/Site: Southeast Reliability Project	City/County: NA/Not	ttoway	Sampling Date: <u>8/16/2014</u>
Applicant/Owner: Dominion Transmission	ordy odding:	State: VA	_ Sampling Point: wnok100_u
Investigator(s): S. Grove, J. Dean	Section, Township, Ra	ange: NA	
Landform (hillslope, terrace, etc.): natural berm	_ Local relief (concave, con	nvex, none): concave	Slope (%): 1
Subregion (LRR or MLRA): LRR P Lat: 37.202	512 Lor	ng: <u>-78.090091</u>	Datum: NAD1983
Soil Map Unit Name: Mixed alluvial land, poorly drained,			ation: PFO1A
Are climatic / hydrologic conditions on the site typical for this time		(If no, explain in Re	
	,	"Normal Circumstances" pr eeded, explain any answers	
Are vegetation, Soii, or Hydrology natural	ly problematic? (if he	eeded, explain any answers	S III Remarks.)
SUMMARY OF FINDINGS – Attach site map show	ving sampling point I	ocations, transects,	important features, etc.
Hydrophytic Vegetation Present? Yes	Is the Sampled	d Area ———	,
Hydric Soil Present? Yes No	within a Wetlan		No V
Wetland Hydrology Present? Yes Ves No	<u> </u>		
Remarks: Located on natural levee adjacent to SNOK100 and	SNOK101 Levee ver	ry narrow and overton	ning/cut through in many
areas. Photos: IMG 2374-2382; soil, N, E, S, W (pic			
Hydrophytic vegetation and wetland hydrology indica			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicat	ors (minimum of two required)
Primary Indicators (minimum of one is required; check all that ap	ply)	Surface Soil C	Cracks (B6)
Surface Water (A1)	atic Plants (B14)	Sparsely Veg	etated Concave Surface (B8)
	Sulfide Odor (C1)	Drainage Patt	
l <b>—</b>	Rhizospheres on Living Roof		
	of Reduced Iron (C4)	_ `	Vater Table (C2)
1 <del>=</del>	on Reduction in Tilled Soils ( c Surface (C7)	· · = ·	ows (C8) sible on Aerial Imagery (C9)
1 <del>_</del>	plain in Remarks)		ressed Plants (D1)
Iron Deposits (B5)	Jan III Romarks)	Geomorphic F	
Inundation Visible on Aerial Imagery (B7)		Shallow Aquit	
Water-Stained Leaves (B9)			ohic Relief (D4)
Aquatic Fauna (B13)		FAC-Neutral 7	Test (D5)
Field Observations:			
Surface Water Present? Yes No Depth (in			
	ches):		
Saturation Present? Yes No Depth (in (includes capillary fringe)	ches): We	etland Hydrology Present	? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial)	photos, previous inspections	s), if available:	
Downsto			
Remarks:	a) throughout most of	the area including tor	a of hormo
Evidence of overtopping (silt/sand sediment deposit	s) throughout most of t	the area, including top	os of bernis.

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

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 20 ft )		Species?		
1. Acer rubrum	50	Y	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: 6 (A)
2. Liriodenderon tulipifera	25	<u>Y</u>	FACU	
3. Plantus occidentalis	20	•	FACW	Total Number of Dominant Species Across All Strata: 7 (B)
4. Liquidambar styraciflua	25	Y	FAC	Species Across Air Strata (b)
-	• :			Percent of Dominant Species
5		-		That Are OBL, FACW, or FAC: 86 (A/B)
0	120	= Total Cov		Prevalence Index worksheet:
22				Total % Cover of: Multiply by:
50% of total cover: 60	20% o	f total cover	<u>: 24</u>	OBL species x 1 =
Sapling Stratum (Plot size: 15 ft )				FACW species x 2 =
1. Asimina trilobia	<u> 15 </u>	<u> Y</u>	FAC	FAC species x 3 =
2				FACU species x 4 =
3				
4				UPL species x 5 =(A)
5				Column Totals: (A) (B)
6.				Prevalence Index = B/A =
<u> </u>	15	= Total Cov	/er	Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
50% of total cover:	20% o	f total cover	:	2 - Dominance Test is >50%
Shrub Stratum (Plot size: 15 ft)	40	V	<b>540</b>	
1. Asimina trilobia	40	<u>Y</u>		3 - Prevalence Index is ≤3.0 <sup>1</sup>
2			. ——	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
3				Problematic Hydrophytic Vegetation (Explain)
4				Problematic Hydrophytic Vegetation (Explain)
5				The Proctors of Book Street Constitution of Book Street
6		_		<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
	40	= Total Cov	ıρr	·
		- 10tai C0t	/ CI	I Definitions of Five Vegetation Strata:
50% of total cover:				Definitions of Five Vegetation Strata:
50% of total cover:				Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft )	20% o		:	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
Herb Stratum (Plot size: 5 ft )	20% o	f total cover	FACU	Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft )  1. Dryopteris intermedia  2. Asimina trilobia	20% 0		FACU FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft )  1. Dryopteris intermedia  2. Asimina trilobia  3. Onoclea sensibilis	20% 0	f total cover	FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
Herb Stratum (Plot size: 5 ft )  1. Dryopteris intermedia  2. Asimina trilobia	20% 0	f total cover	FACU FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
Herb Stratum (Plot size: 5 ft )  1. Dryopteris intermedia  2. Asimina trilobia  3. Onoclea sensibilis	20% 0	f total cover	FACU FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft )  1. Dryopteris intermedia  2. Asimina trilobia  3. Onoclea sensibilis	20% o	f total cover	FACU FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
Herb Stratum (Plot size: 5 ft )  1. Dryopteris intermedia  2. Asimina trilobia  3. Onoclea sensibilis  4	20% o	f total cover	FACU FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including
Herb Stratum (Plot size: 5 ft )  1. Dryopteris intermedia  2. Asimina trilobia  3. Onoclea sensibilis  4	20% o	Y Y	FACU FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
Herb Stratum (Plot size: 5 ft )  1. Dryopteris intermedia 2. Asimina trilobia 3. Onoclea sensibilis 4	20% o	Y Y	FACU FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including
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Herb Stratum (Plot size: 5 ft )  1. Dryopteris intermedia  2. Asimina trilobia  3. Onoclea sensibilis  4.	20% o	Y	FACU FAC FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft )  1. Dryopteris intermedia 2. Asimina trilobia 3. Onoclea sensibilis 4	20% o	Y  = Total Cov	FACU FAC FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
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Herb Stratum (Plot size: 5 ft 1. Dryopteris intermedia 2. Asimina trilobia 3. Onoclea sensibilis 4	20% o	Y  = Total Cov	FACU FACW FACW FACW FACW FACW FACW FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
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Herb Stratum (Plot size: 5 ft 1. Dryopteris intermedia 2. Asimina trilobia 3. Onoclea sensibilis 4	9 20% o	Total Cover  Total Cover  Y	FACU FACW FACW FACW FACW FACW FACC FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.
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Herb Stratum (Plot size: 5 ft 1. Dryopteris intermedia 2. Asimina trilobia 3. Onoclea sensibilis 4	20% o	f total cover  Y  = Total Cover  Y  = Total Cover	FACU FACW FACW 1.8	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.
Herb Stratum (Plot size: 5 ft)  1. Dryopteris intermedia 2. Asimina trilobia 3. Onoclea sensibilis 4	20% o	f total cover  Y  = Total Cover  Y  = Total Cover	FACU FACW FACW 1.8	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.

Sampling Point: wnok100\_u

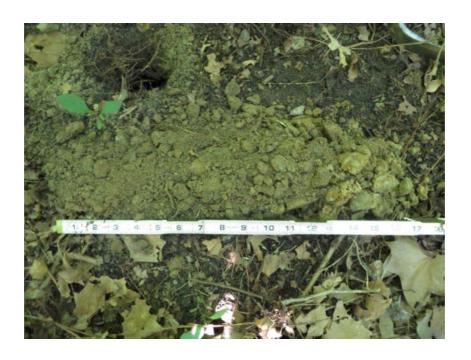
Profile Desc	ription: (Describe	to the dep	th needed to docur	nent the i	ndicator	or confirn	n the absence	of indicators.)
Depth	Matrix		Redo	x Feature:	<u>s</u>			
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-12	10 YR 3/3	98					SI/LM	very fine sand and silt
12-17	10 YR 5/2	45	7.5 YR 4/6	35	С	M	SI/LM	15% matrix 10YR 4/3, fine sand/silt
		,						
<del></del>		• ——						
	-							
		-						
'Type: C=Co	ncentration, D=Dep	letion, RM	=Reduced Matrix, MS	S=Masked	l Sand Gr	ains.		L=Pore Lining, M=Matrix.
Hydric Soil I			_				_	ators for Problematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface					cm Muck (A10) (MLRA 147)
	ipedon (A2)		Polyvalue Be				. <b>148)</b> LL C	oast Prairie Redox (A16)
Black His			Thin Dark Su			47, 148)		(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye		F2)		<u> </u>	iedmont Floodplain Soils (F19)
	Layers (A5)		. Depleted Ma		-0)			(MLRA 136, 147)
	ck (A10) (LRR N)	- (011)	Redox Dark					ery Shallow Dark Surface (TF12)
	l Below Dark Surfac irk Surface (A12)	e (ATT)	Depleted Da				ш	ther (Explain in Remarks)
	lucky Mineral (S1) <b>(I</b>	RR N	Iron-Mangan			I RR N		
	147, 148)	LIXIX IX,	MLRA 13		03 (1 12) (	LIXIX IX,		
	leyed Matrix (S4)		Umbric Surfa		MIRA 13	6 122)	3Ind	icators of hydrophytic vegetation and
	edox (S5)		Piedmont Flo					tland hydrology must be present,
	Matrix (S6)		Red Parent N					less disturbed or problematic.
	ayer (if observed):	:	.—	`	, ,		ĺ	'
Type: NA								
Depth (inc							Hydric Soil	Present? Yes No No
Remarks:							Tiyano con	11050iii: 105 <u></u> 110 <u></u>
Ch	naracteristics of	F19 soils	found below 10	" (criteria	a not me	et).Very	fine sands/s	ilt throughout wetland and
up	land soils.			·		,		-



Upland data point wnok100\_u facing North



Upland data point wnok100\_u facing South



Upland data point wnok100\_u soil sample

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

Project/Site: Southeast Reliability Project	City/County: NA/Nottowa	ıy	Sampling Date: 8/16/2014
Applicant/Owner: Dominion Transmission		State: VA	_ Sampling Point: wnok100f_v
Investigator(s): S. Grove, J. Dean	Section, Township, Range:	NA	
	ocal relief (concave, convex, r	none): concave	Slope (%): 1
Subregion (LRR or MLRA): LRR P Lat: 37.202377		78.089862	Datum: NAD1983
Soil Map Unit Name: Appling coarse sandy loam, eroded rol			ation: PFO1A
Are climatic / hydrologic conditions on the site typical for this time of ye		(If no, explain in Re	
		nal Circumstances" pr	
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If needed	l, explain any answer	s in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	sampling point locat	ions, transects,	important features, etc.
Hydrophytic Vegetation Present? Yes	Is the Sampled Are		
Hydric Soil Present? Yes V No	Is the Sampled Area within a Wetland?	Yes 🔽	
Wetland Hydrology Present? Yes	.		
Remarks:	'		
Located on floodplain area behind natural levee adjace			
Evidence of spillover of creek from recent storms through			
Photos: IMG 2356-2364; soil, N, E, S, W (pics 2357, 23 overtopping/cut through in many areas.	59, 2360 and 2363 wer	e skippea). Leve	e very narrow and
overtopping/cut tillough in many areas.			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicat	tors (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		Surface Soil C	Cracks (B6)
Surface Water (A1) True Aquatic F			etated Concave Surface (B8)
High Water Table (A2) Hydrogen Sulf		✓ Drainage Patt	
I <b>—</b>	ospheres on Living Roots (C3	_	
	educed Iron (C4)	_ `	Water Table (C2)
✓ Sediment Deposits (B2)       ☐ Recent Iron Re         ✓ Drift Deposits (B3)       ☐ Thin Muck Sur	eduction in Tilled Soils (C6)	Crayfish Burro	ows (C8) sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)  Other (Explain	` '		ressed Plants (D1)
Iron Deposits (B5)	11110	Geomorphic F	· · ·
Inundation Visible on Aerial Imagery (B7)		Shallow Aquit	
Water-Stained Leaves (B9)			phic Relief (D4)
Aquatic Fauna (B13)		FAC-Neutral	Test (D5)
Field Observations:			
Surface Water Present? Yes No Depth (inches			
Water Table Present? Yes No Depth (inches		_	
Saturation Present? Yes No Depth (inches (includes capillary fringe)	i): Wetland	d Hydrology Present	t? Yes No No
Describe Recorded Data (stream gauge, monitoring well, aerial phot	os, previous inspections), if a	vailable:	
Remarks:			
Several drainages and low-lying areas with stained leav	es and little-no vegetat	ion in complex. S	Saturated soils in several
low-lying areas within complex.			

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

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft )	% Cover	Species?		Number of Dominant Species
1. Acer rubrum	45	<u>Y</u>	FAC	That Are OBL, FACW, or FAC: 5 (A)
2. Fraxinus pennsylvanica	20	N	<b>FACW</b>	
3. Plantus occidentalis	15	N	FACW	Total Number of Dominant Species Across All Strata: 6 (B)
4. Liquidambar styraciflua	35	Y	FAC	Species Across Air Strata. (b)
		<del></del>	1710	Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 83 (A/B)
6	400			Prevalence Index worksheet:
	120	= Total Cov	er	
50% of total cover: <u>60</u>	20% of	total cover:	24	Total % Cover of: Multiply by:
Sapling Stratum (Plot size: 15 ft )				OBL species x 1 =
1. Asimina trilobia	15	Υ	FAC	FACW species x 2 =
				FAC species x 3 =
2				FACU species x 4 =
3				UPL species x 5 =
4				Column Totals: (A) (B)
5				Column Totals (N) (B)
6				Prevalence Index = B/A =
	15	= Total Cov	er	Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
50% of total cover:	20% of	total cover:		
Shrub Stratum (Plot size: 15 ft)				2 - Dominance Test is >50%
1. Lindera benzoin	40	Υ	FAC	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Viburnum dentatum	10	N	FAC	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Ulmus americana	5	N	FACW	data in Remarks or on a separate sheet)
4				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
4				
5				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
	55	<ul><li>Total Cov</li></ul>	er	Definitions of Five Vegetation Strata:
			0.	Definitions of Five vegetation Strata:
50% of total cover: 27.5	20% of			
50% of total cover: 27.5  Herb Stratum (Plot size: 5 ft )	20% of			Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft )		total cover:	11	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
Herb Stratum (Plot size: 5 ft )  1. Leersia virginica	30	total cover:	11 FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
Herb Stratum (Plot size: 5 ft )  1. Leersia virginica 2. Persicaria pennsuylvanica	<u>30</u> <u>5</u>	Y N	FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft  1. Leersia virginica 2. Persicaria pennsuylvanica 3. Symplocarpus foetidus	30 5 5	Y N N	FACW FACW OBL	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
Herb Stratum (Plot size: 5 ft )  1. Leersia virginica  2. Persicaria pennsuylvanica  3. Symplocarpus foetidus  4. Lindera benzoin	30 5 5 3	Y N N N	FACW FACW OBL FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines,
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Herb Stratum (Plot size: 5 ft )  1. Leersia virginica  2. Persicaria pennsuylvanica  3. Symplocarpus foetidus  4. Lindera benzoin	30 5 5 3	Y N N N	FACW FACW OBL FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
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Herb Stratum (Plot size: 5 ft )  1. Leersia virginica  2. Persicaria pennsuylvanica  3. Symplocarpus foetidus  4. Lindera benzoin  5. Onoclea sensibilis  6	30 5 5 3 2	Y N N N	FACW FACW OBL FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including
Herb Stratum (Plot size: 5 ft )  1. Leersia virginica  2. Persicaria pennsuylvanica  3. Symplocarpus foetidus  4. Lindera benzoin  5. Onoclea sensibilis  6	30 5 5 3 2	Y N N N	FACW FACW OBL FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3
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Sampling Point: wnok100f\_w

Profile Desc	cription: (Describe	to the dep	th needed to docur	nent the	indicator	or confirm	the absence	of indicators.)		
Depth	epth <u>Matrix</u> Redox Features									
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	<u>Loc²</u>	<u>Texture</u>	Remarks		
0-6	7.5 YR 4/2	70	7.5 YR 4/6	25	<u> </u>	PL/M	SA/LM	fine sand and silt		
6-10	7.5 YR 4/2	65	7.5 YR 4/6	30	С	PL/M	SA/LM	fine sand and silt		
10-14	7.5 YR 6/2	45	5 YR 4/6	40	С	PL/M	SA/LM	15% of matrix 7.5 YR 4/1, fine sand/silt		
				-	-					
		. ——								
<sup>1</sup> Type: C=C	oncentration, D=Dep	letion, RM	=Reduced Matrix, MS	S=Masked	d Sand Gra	ains.	<sup>2</sup> Location: P	L=Pore Lining, M=Matrix.		
Hydric Soil	Indicators:						Indic	ators for Problematic Hydric Soils <sup>3</sup> :		
L Histosol	(A1)		Dark Surface					cm Muck (A10) (MLRA 147)		
Histic Ep	oipedon (A2)		Polyvalue Be	low Surfa	ice (S8) <b>(N</b>	ILRA 147,	148)	Coast Prairie Redox (A16)		
_	stic (A3)		Thin Dark Su			47, 148)		(MLRA 147, 148)		
	en Sulfide (A4)		Loamy Gleye		(F2)		<u> </u>	Piedmont Floodplain Soils (F19)		
	d Layers (A5)		Depleted Ma		-0)		□,	(MLRA 136, 147)		
	ıck (A10) <b>(LRR N)</b> d Below Dark Surfac	o (A11)	Redox Dark					/ery Shallow Dark Surface (TF12)		
	ark Surface (A12)	e (ATT)	Depleted Dar					Other (Explain in Remarks)		
	Aucky Mineral (S1) <b>(L</b>	RR N	Iron-Mangan			I RR N				
	A 147, 148)		MLRA 13		,05 (i 12) <b>(</b>					
	Gleyed Matrix (S4)		Umbric Surfa		(MLRA 13	6, 122)	<sup>3</sup> Inc	dicators of hydrophytic vegetation and		
	Redox (S5)		Piedmont Flo					etland hydrology must be present,		
Stripped	l Matrix (S6)		Red Parent N	/laterial (F	21) <b>(MLR</b>	A 127, 147	<b>')</b> un	lless disturbed or problematic.		
	Layer (if observed):									
Туре: <u>N</u>	Α									
Depth (in	ches):						Hydric Soil	Present? Yes 🔽 No 🔲		
Remarks:										
								ets criteria for depleted matrix,		
			riplex meet chiel king. Very fine sa					m comprised primarily of fine		
Sa	ands and siit, sor	ne strea	king. very line sa	mus/siit	unrougn	out wella	and and upi	and soils.		



Wetland data point wnok100f\_w facing North



Wetland data point wnok100f \_w facing South



Wetland data point wnok100f \_w soil sample

This upland point is shared by both wnok100f\_w and wnok101f\_w.

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

Project/Site: Southeast Reliability Project	City/County: NA/Not	ttoway	Sampling Date: <u>8/16/2014</u>
Applicant/Owner: Dominion Transmission	ordy odding:	State: VA	_ Sampling Point: wnok100_u
Investigator(s): S. Grove, J. Dean	Section, Township, Ra	ange: NA	
Landform (hillslope, terrace, etc.): natural berm	_ Local relief (concave, con	nvex, none): concave	Slope (%): 1
Subregion (LRR or MLRA): LRR P Lat: 37.202	512 Lor	ng: <u>-78.090091</u>	Datum: NAD1983
Soil Map Unit Name: Mixed alluvial land, poorly drained,			ation: PFO1A
Are climatic / hydrologic conditions on the site typical for this time		(If no, explain in Re	
	,	"Normal Circumstances" pr eeded, explain any answers	
Are vegetation, Soii, or Hydrology natural	ly problematic? (if he	eeded, explain any answers	S III Remarks.)
SUMMARY OF FINDINGS – Attach site map show	ving sampling point I	ocations, transects,	important features, etc.
Hydrophytic Vegetation Present? Yes	Is the Sampled	d Area ———	,
Hydric Soil Present? Yes No	within a Wetlan		No V
Wetland Hydrology Present? Yes Ves No	<u> </u>		
Remarks: Located on natural levee adjacent to SNOK100 and	SNOK101 Levee ver	ry narrow and overton	ning/cut through in many
areas. Photos: IMG 2374-2382; soil, N, E, S, W (pic			
Hydrophytic vegetation and wetland hydrology indica			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicat	ors (minimum of two required)
Primary Indicators (minimum of one is required; check all that ap	ply)	Surface Soil C	Cracks (B6)
Surface Water (A1)	atic Plants (B14)	Sparsely Veg	etated Concave Surface (B8)
	Sulfide Odor (C1)	Drainage Patt	
l <b>—</b>	Rhizospheres on Living Roof		
	of Reduced Iron (C4)	_ `	Vater Table (C2)
1 <del>=</del>	on Reduction in Tilled Soils ( c Surface (C7)	· · = ·	ows (C8) sible on Aerial Imagery (C9)
1 <del>_</del>	plain in Remarks)		ressed Plants (D1)
Iron Deposits (B5)	Jan III Romarks)	Geomorphic F	
Inundation Visible on Aerial Imagery (B7)		Shallow Aquit	
Water-Stained Leaves (B9)			ohic Relief (D4)
Aquatic Fauna (B13)		FAC-Neutral 7	Test (D5)
Field Observations:			
Surface Water Present? Yes No Depth (in			
	ches):		
Saturation Present? Yes No Depth (in (includes capillary fringe)	ches): We	etland Hydrology Present	? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial)	photos, previous inspections	s), if available:	
Downsto			
Remarks:	a) throughout most of	the area including tor	a of hormo
Evidence of overtopping (silt/sand sediment deposit	s) throughout most of t	the area, including top	os of bernis.

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

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 20 ft )		Species?		
1. Acer rubrum	50	Y	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: 6 (A)
2. Liriodenderon tulipifera	25	<u>Y</u>	FACU	
3. Plantus occidentalis	20	•	FACW	Total Number of Dominant Species Across All Strata: 7 (B)
4. Liquidambar styraciflua	25	Y	FAC	Species Across Air Strata (b)
-	• :			Percent of Dominant Species
5		-		That Are OBL, FACW, or FAC: 86 (A/B)
0	120	= Total Cov		Prevalence Index worksheet:
22				Total % Cover of: Multiply by:
50% of total cover: 60	20% o	f total cover	<u>: 24</u>	OBL species x 1 =
Sapling Stratum (Plot size: 15 ft )				FACW species x 2 =
1. Asimina trilobia	<u> 15 </u>	<u> Y</u>	FAC	FAC species x 3 =
2				FACU species x 4 =
3				
4				UPL species x 5 =(A)
5				Column Totals: (A) (B)
6.				Prevalence Index = B/A =
<u> </u>	15	= Total Cov	/er	Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
50% of total cover:	20% o	f total cover	:	2 - Dominance Test is >50%
Shrub Stratum (Plot size: 15 ft)	40	V	<b>540</b>	
1. Asimina trilobia	40	<u>Y</u>		3 - Prevalence Index is ≤3.0 <sup>1</sup>
2			. ——	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
3				Problematic Hydrophytic Vegetation (Explain)
4				Problematic Hydrophytic Vegetation (Explain)
5				The Proctors of Book Street Constitution of Book Street
6		_		<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
	40	= Total Cov	ıρr	·
		- 10tai C0t	/ CI	I Definitions of Five Vegetation Strata:
50% of total cover:				Definitions of Five Vegetation Strata:
50% of total cover:				Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft )	20% o		:	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
Herb Stratum (Plot size: 5 ft )	20% o	f total cover	FACU	Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft )  1. Dryopteris intermedia  2. Asimina trilobia	20% 0		FACU FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft )  1. Dryopteris intermedia  2. Asimina trilobia  3. Onoclea sensibilis	20% 0	f total cover	FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
Herb Stratum (Plot size: 5 ft )  1. Dryopteris intermedia  2. Asimina trilobia	20% 0	f total cover	FACU FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
Herb Stratum (Plot size: 5 ft )  1. Dryopteris intermedia  2. Asimina trilobia  3. Onoclea sensibilis	20% 0	f total cover	FACU FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft )  1. Dryopteris intermedia  2. Asimina trilobia  3. Onoclea sensibilis	20% o	f total cover	FACU FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
Herb Stratum (Plot size: 5 ft )  1. Dryopteris intermedia  2. Asimina trilobia  3. Onoclea sensibilis  4	20% o	f total cover	FACU FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including
Herb Stratum (Plot size: 5 ft )  1. Dryopteris intermedia  2. Asimina trilobia  3. Onoclea sensibilis  4	20% o	Y Y	FACU FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
Herb Stratum (Plot size: 5 ft )  1. Dryopteris intermedia 2. Asimina trilobia 3. Onoclea sensibilis 4	20% o	Y Y	FACU FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including
Herb Stratum (Plot size: 5 ft )  1. Dryopteris intermedia 2. Asimina trilobia 3. Onoclea sensibilis 4	20% o	Y	FACU FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft )  1. Dryopteris intermedia  2. Asimina trilobia  3. Onoclea sensibilis  4.	20% o	Y	FACU FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3
Herb Stratum (Plot size: 5 ft )  1. Dryopteris intermedia  2. Asimina trilobia  3. Onoclea sensibilis  4.	20% o	Y	FACU FAC FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft )  1. Dryopteris intermedia 2. Asimina trilobia 3. Onoclea sensibilis 4	20% o	Y  = Total Cov	FACU FAC FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft  1. Dryopteris intermedia 2. Asimina trilobia 3. Onoclea sensibilis 4.	20% o	Y Y	FACU FAC FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft   1. Dryopteris intermedia   2. Asimina trilobia   3. Onoclea sensibilis   4.	20% o	Y  = Total Cov	FACU FAC FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft 1. Dryopteris intermedia 2. Asimina trilobia 3. Onoclea sensibilis 4	20% o	Y  = Total Cov	FACU FACW FACW FACW FACW FACW FACW FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft )  1. Dryopteris intermedia  2. Asimina trilobia  3. Onoclea sensibilis  4.	20% o	Y  = Total Cov	FACU FAC FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft 1. Dryopteris intermedia 2. Asimina trilobia 3. Onoclea sensibilis 4	20% o	Y  = Total Cov	FACU FACW FACW FACW FACW FACW FACW FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft )  1. Dryopteris intermedia  2. Asimina trilobia  3. Onoclea sensibilis  4.	20% o	Y  = Total Cov	FACU FACW FACW FACW FACW FACW FACW FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft 1. Dryopteris intermedia 2. Asimina trilobia 3. Onoclea sensibilis 4	9 20% o	Total Cover  Total Cover  Y	FACU FACW FACW FACW FACW FACW FACC FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.
Herb Stratum (Plot size: 5 ft 1. Dryopteris intermedia 2. Asimina trilobia 3. Onoclea sensibilis 4	9 20% o	Y  = Total Cov	FACU FACW FACW FACW FACW FACW FACC FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.
Herb Stratum (Plot size: 5 ft 1. Dryopteris intermedia 2. Asimina trilobia 3. Onoclea sensibilis 4	20% o	f total cover  Y  = Total Cover  Y  = Total Cover	FACU FACW FACW 1.8	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.
Herb Stratum (Plot size: 5 ft)  1. Dryopteris intermedia 2. Asimina trilobia 3. Onoclea sensibilis 4	20% o	f total cover  Y  = Total Cover  Y  = Total Cover	FACU FACW FACW 1.8	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.

Sampling Point: wnok100\_u

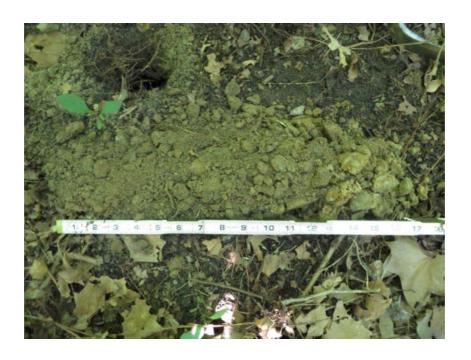
Profile Desc	ription: (Describe	to the dep	th needed to docur	nent the i	ndicator	or confirn	n the absence	of indicators.)
Depth	Matrix		Redo	x Feature:	<u>s</u>			
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-12	10 YR 3/3	98					SI/LM	very fine sand and silt
12-17	10 YR 5/2	45	7.5 YR 4/6	35	С	M	SI/LM	15% matrix 10YR 4/3, fine sand/silt
		,						
<del></del>		• ——						
	-							
					-			
'Type: C=Co	ncentration, D=Dep	letion, RM	=Reduced Matrix, MS	S=Masked	l Sand Gr	ains.		L=Pore Lining, M=Matrix.
Hydric Soil I			_				_	ators for Problematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface					cm Muck (A10) (MLRA 147)
	ipedon (A2)		Polyvalue Be				. <b>148)</b> LL C	oast Prairie Redox (A16)
Black His			Thin Dark Su			47, 148)		(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye		F2)		<u> </u>	iedmont Floodplain Soils (F19)
	Layers (A5)		. Depleted Ma		-0)			(MLRA 136, 147)
	ck (A10) (LRR N)	- (011)	Redox Dark					ery Shallow Dark Surface (TF12)
	l Below Dark Surfac irk Surface (A12)	e (ATT)	Depleted Da				ш	ther (Explain in Remarks)
	lucky Mineral (S1) <b>(I</b>	RR N	Iron-Mangan			I RR N		
	147, 148)	LIXIX IX,	MLRA 13		03 (1 12) (	LIXIX IX,		
	leyed Matrix (S4)		Umbric Surfa		MIRA 13	6 122)	3Ind	icators of hydrophytic vegetation and
	edox (S5)		Piedmont Flo					tland hydrology must be present,
	Matrix (S6)		Red Parent N					less disturbed or problematic.
	ayer (if observed):	:	.—	`	, ,		ĺ	'
Type: NA								
Depth (inc							Hydric Soil	Present? Yes No No
Remarks:							Tiyano con	11050iii: 105 <u></u> 110 <u></u>
Ch	naracteristics of	F19 soils	found below 10	" (criteria	a not me	et).Very	fine sands/s	ilt throughout wetland and
up	land soils.			·		,		-



Upland data point wnok100\_u facing North



Upland data point wnok100\_u facing South



Upland data point wnok100\_u soil sample

WEILAND DETERMINATION DATA FORM – Eastern Mountains and Pledmont
Project/Site: ACP City/County: NOTTOWAY Sampling Date: 01/10/1
Applicant/Owner: DOMINION State: VA Sampling Point: Whop 002
Investigator(s): J. Benton, S. Iosefa Section, Township, Range: N/A
Landform (hillslope, terrace, etc.): HIIIIIDPQ Local relief (concave, convex, none): hone Slope (%): 0-0
Subregion (LRR or MLRA): LRR P Lat: 37.19478 Long: -78.068128 Datum: WESC
Soil Map Unit Name:
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?  Hydric Soil Present?  Wetland Hydrology Present?  Yes X No Is the Sampled Area within a Wetland?  Yes X No No
HYDROLOGY
Wetland Hydrology Indicators:  Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)  Surface Soil Cracks (B6)
Surface Water (A1) True Aquatic Plants (B14) Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)  Hydrogen Sulfide Odor (C1)  Drainage Patterns (B10)
Saturation (A3) Oxidized Rhizospheres on Living Roots (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of Reduced Iron (C4) Dry-Season Water Table (C2)
Sediment Deposits (B2) Recent Iron Reduction in Tilled Soils (C6) Crayfish Burrows (C8)
Drift Deposits (B3)
Algal Mat or Crust (B4) Other (Explain in Remarks) Stunted or Stressed Plants (D1)
Iron Deposits (B5) Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7) Shallow Aquitard (D3)
Water-Stained Leaves (B9) Microtopographic Relief (D4)
Aquatic Fauna (B13) FAC-Neutral Test (D5)
Field Observations:
Surface Water Present? Yes No Depth (inches):
Water Table Present? Yes No Depth (inches):
Saturation Present? YesX No Depth (inches):
Remarks:

20.V20ft	Absolute	Dominan	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 X30ft)  1. Liquidam bar styrauflya		Species'	Status FAC	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
3				Total Number of Dominant Species Across All Strata: (B)
4				Percent of Dominant Species That Are OBL, FACW, or FAC:  (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of:Multiply by:
50% of total cover:		= Total Co total cover		OBL species x 1 =
0070 01 (0101 0010)	20% of	total cover		FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30 \ 30 \ ft)	20	V	EN O	
1. Carpinus caroliniana	20	1	FAC	FAC species x 3 =
2. Liquidam bar styraciflua	5	N	FAC	FACU species x 4 =
3. Magnolia virginiana	5	N	FACH	UPL species x 5 =
4. Ilex opard	5	N	FACM	Column Totals: (A) (B)
5				
6				Prevalence Index = B/A =
				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0¹
17.5	35 :	Total Cov		4 - Morphological Adaptations¹ (Provide supporting
50% of total cover: 17,5	20% of	total cover	:t_	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 30x30ft)		. 1		
1. Ilex opaca	4	Y	FACY	Problematic Hydrophytic Vegetation¹ (Explain)
2. Polystichum achostichorals	5	Y	FACU	
3. Ludwigia alternifolia	2	N	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				Tree Moody plants evaluding vines 3 in (7.6 cm) or
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
7				height.
8				
9				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11	11			Herb – All herbaceous (non-woody) plants, regardless
50% of total cover: 5.5		Total Cov		of size, and woody plants less than 3.28 ft tall.
	_ 20% 011	total cover		Woody vine - All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 20 X30)		V	FILA	height.
1. Smilax rotundi folia	-		FAC	
2. lonicera japonica	10	<u> </u>	FAC	
3				
4.				
5				Hydrophytic Vegetation
	16 -	Total Cov		Present? Yes No
50% of total cover: 7-5		otal cover:		
		otal cover.		
Remarks: (Include photo numbers here or on a separate sh	eet.)			
				*
				1

mplina Point:	WNOP	00	12	5	.W	)
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SOIL

Profile Description: (Describe to the dep	th needed to document the indicator or confirm	the absence of indicators.)
Depth Matrix	Redox Features	T. A
(inches) Color (moist) % ()-1\(0) 2.6   \qua	Color (moist) % Type Loc²	Texture Remarks
0 10	1.5/K 1/0 9 C M	SL
16-20 10 YR 2 1 100		SCL
10 10 100		
<sup>1</sup> Type: C=Concentration, D=Depletion, RM:	Reduced Matrix, MS=Masked Sand Grains.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:		Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Dark Surface (S7)	2 cm Muck (A10) (MLRA 147)
Histic Epipedon (A2)	Polyvalue Below Surface (S8) (MLRA 147,	148) Coast Prairie Redox (A16)
Black Histic (A3)	Thin Dark Surface (S9) (MLRA 147, 148)	(MLRA 147, 148)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Piedmont Floodplain Soils (F19)
Stratified Layers (A5)	Depleted Matrix (F3)	(MLRA 136, 147)
2 cm Muck (A10) (LRR N)	Redox Dark Surface (F6)	Red Parent Material (TF2)
Depleted Below Dark Surface (A11)	Depleted Dark Surface (F7)	Very Shallow Dark Surface (TF12)
Thick Dark Surface (A12)	Redox Depressions (F8)	Other (Explain in Remarks)
Sandy Mucky Mineral (S1) (LRR N,	Iron-Manganese Masses (F12) (LRR N,	
MLRA 147, 148)	MLRA 136)	<sup>3</sup> Indicators of hydrophytic vegetation and
<ul><li>Sandy Gleyed Matrix (S4)</li><li>Sandy Redox (S5)</li></ul>	Umbric Surface (F13) (MLRA 136, 122) Piedmont Floodplain Soils (F19) (MLRA 14	
Stripped Matrix (S6)	Pledmont Ploodplain Soils (P19) (MLRA 14	unless disturbed or problematic.
Restrictive Layer (if observed):		unless distarbed of problematic.
Type:		
		Hydric Soil Present? Yes X No
Depth (inches):		nyuric soil Presentr Tes No
Remarks:		



Wetland data point wnop002s\_w facing north.



#### WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont

Project/Site: A CP	City/County: Nottoway Sampling Date: 01/19/11
Applicant/Owner: DOMINION	State: VA Sampling Point: Wno p 002-0
Investigator(s): T. Benton C. IOCRFA	Section, Township, Range:
11:11 010 10	ocal relief (concave, convex, none): hone Slope (%): NA
	7483 Long: 78.06818 Datum: W (754)
\\(\alpha\)\\\(\alpha\)\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1101 10111
	TVV Glassification:
Are climatic / hydrologic conditions on the site typical for this time of	
Are Vegetation, Soil, or Hydrology significant	ly disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally p	oroblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing	ng sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	
Hydric Soil Present? Yes No	- Is the Sampled Area - within a Wetland? Yes No
Wetland Hydrology Present? Yes No	within a Wetland? Yes NoX
Remarks:	
SEC STOCK CONSISTED	
	9
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply	
Surface Water (A1) True Aquatic	
High Water Table (A2)  Hydrogen Su  Hydrogen Su	
	zospheres on Living Roots (C3) Moss Trim Lines (B16)
	Reduced Iron (C4) Dry-Season Water Table (C2)
	Reduction in Tilled Soils (C6) Crayfish Burrows (C8)
Drift Deposits (B3) Thin Muck St	
	n in Remarks) Stunted or Stressed Plants (D1)
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	21/4
Surface Water Present? Yes No Depth (inche	
Water Table Present? Yes No Depth (inche	X
Saturation Present? Yes No Depth (inche (includes capillary fringe)	es):   Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial pho	otos, previous inspections), if available:
Remarks:	
B 5	
	,
,	

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 20 x 30 ft)		Species?		Number of Demisers Species	
1. Acer rubrum	10	_ Y	FAC	That Are OBL, FACW, or FAC:	(A)
2. Liquidambar Styraciflya	10	Y	FAC		`
3		-	- 1110	Total Number of Dominant	(D)
		-		Species Across All Strata:	(B)
4				Percent of Dominant Species	
5				That Are OBL, FACW, or FAC:	(A/B)
6				S. I.	
7				Prevalence Index worksheet:	- 1
	20	= Total Cov	rer a	Total % Cover of: Multiply by:	- 1
50% of total cover: 10		total cover		OBL species x 1 =	
Sapling/Shrub Stratum (Plot size: 30 x 30ft)				FACW species x 2 =	.
1. Liquidambar styraciflua	20	Y	FAC	FAC species x 3 =	
2 Carpinus Caroliniana	16	Y	FAC	FACU species x 4 =	
3. ILPX 0PA(A	15	·	FACU	UPL species x 5 =	
		0.1		Column Totals: (A)	0.07333194
4. Juniperus virginiana	D	N	FACY	Coldini Totals(A)	. (6)
5				Prevalence Index = B/A =	
6				Hydrophytic Vegetation Indicators:	
7				1 - Rapid Test for Hydrophytic Vegetation	
8					
9				2 - Dominance Test is >50%	
	60:	Total Cov	or	3 - Prevalence Index is ≤3.0¹	
50% of total cover: 30		total cover:		4 - Morphological Adaptations¹ (Provide supp	orting
Herb Stratum (Plot size: 30 x 30 ft)	20 70 01	total bovor.		data in Remarks or on a separate sheet)	
1. Polystichum acrostichoides	10	V	FACY	Problematic Hydrophytic Vegetation¹ (Explain	)
		1		19 5x W 1945	
2. Allium canadence		4	FACU	Indicators of hydric soil and wetland hydrology me	ust
3				be present, unless disturbed or problematic.	
4				Definitions of Four Vegetation Strata:	-
5				4 (1994)	
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cr	
7				more in diameter at breast height (DBH), regardle height.	SS OI
8				Tiolgin.	
9				Sapling/Shrub – Woody plants, excluding vines, I	
				than 3 in. DBH and greater than or equal to 3.28 f	(1)
10				Thy tan.	
11	10			Herb - All herbaceous (non-woody) plants, regard	lless
16		Total Cov		of size, and woody plants less than 3.28 ft tall.	
50% of total cover: <u>7 - 9</u>	_ 20% of	otal cover:		Woody vine - All woody vines greater than 3.28 f	t in
Woody Vine Stratum (Plot size: 30X30f+)	(0	1	FAA	height.	
1. Smilax rotundifolia	10	<u> </u>	FAC		-
2. Lonicera japonica	5		FAC		- 1
3					
4.					
5				Hydrophytic Vegetation	
-	15 -	Total Cove		Present? Yes No	
50% of total cover: 7-5					
		otal cover.			-
Remarks: (Include photo numbers here or on a separate sh	eet.)				
					- 1

Profile Description: (Describe to the depth n	eeded to document the indicator or confirm	the absence of indicators.)
Depth Matrix	Redox Features	
	Color (moist) % Type <sup>1</sup> Loc <sup>2</sup>	Texture Remarks
6-10 75718916 100		<u>CL</u>
10-14 7.55 YR518 100		CL
14-20 2.54 5/2 90 7	-54R5/810 C M	CL
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Red	duced Matrix, MS=Masked Sand Grains.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:		Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Dark Surface (S7)	2 cm Muck (A10) (MLRA 147)
Histic Epipedon (A2)	Polyvalue Below Surface (S8) (MLRA 147,	
Black Histic (A3)	Thin Dark Surface (S9) (MLRA 147, 148)	(MLRA 147, 148)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	— Piedmont Floodplain Soils (F19)
Stratified Layers (A5)	Depleted Matrix (F3)	(MLRA 136, 147)
2 cm Muck (A10) (LRR N)	Redox Dark Surface (F6)	Red Parent Material (TF2)
Depleted Below Dark Surface (A11)	Depleted Dark Surface (F7)	Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N,	<ul><li>Redox Depressions (F8)</li><li>Iron-Manganese Masses (F12) (LRR N,</li></ul>	Other (Explain in Remarks)
MLRA 147, 148)	MLRA 136)	
Sandy Gleyed Matrix (S4)	Umbric Surface (F13) (MLRA 136, 122)	<sup>3</sup> Indicators of hydrophytic vegetation and
Sandy Redox (S5)	Piedmont Floodplain Soils (F19) (MLRA 14)	
Stripped Matrix (S6)		unless disturbed or problematic.
Restrictive Layer (if observed):		
Restrictive Layer (if observed):		
Туре:	-	\
Type: Depth (inches):	-	Hydric Soil Present? Yes No
Туре:	-	\
Type: Depth (inches):	-	\
Type: Depth (inches):	-	\
Type: Depth (inches):	-	\
Type: Depth (inches):	-	\
Type:		\
Type: Depth (inches):	-	\
Type: Depth (inches): Remarks:	-	\
Type: Depth (inches): Remarks:	-	\
Type: Depth (inches): Remarks:	-	Hydric Soil Present? Yes No
Type: Depth (inches): Remarks:	-	Hydric Soil Present? Yes No
Type: Depth (inches): Remarks:	-	Hydric Soil Present? Yes No
Type: Depth (inches): Remarks:	-	Hydric Soil Present? Yes No
Type:	-	Hydric Soil Present? Yes No
Type: Depth (inches): Remarks:		Hydric Soil Present? Yes No
Type: Depth (inches): Remarks:	-	Hydric Soil Present? Yes No
Type: Depth (inches): Remarks:		Hydric Soil Present? Yes No
Type: Depth (inches): Remarks:		Hydric Soil Present? Yes No
Type: Depth (inches): Remarks:		Hydric Soil Present? Yes No
Type: Depth (inches): Remarks:		Hydric Soil Present? Yes No
Type: Depth (inches): Remarks:		Hydric Soil Present? Yes No
Type: Depth (inches): Remarks:		Hydric Soil Present? Yes No
Type:		Hydric Soil Present? Yes No



Upland data point wnop002\_u facing north.



Upland data point wnop002\_u facing south.

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

Applicant/Owner: Dominion Investigator(s): J. Benton, S. Iosefa Section	NWI classification: PFO es No (If no, explain in Remarks.) ped? Are "Normal Circumstances" present? Yes No
SUMMARY OF FINDINGS – Attach site map showing sam	
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Remarks:	Is the Sampled Area within a Wetland? Yes No
Head water forest	
HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1) True Aquatic Plants (I Hydrogen Sulfide Odd Yester (A3) Oxidized Rhizosphere Oxidized R	or (C1)
Field Observations:  Surface Water Present? Yes No Depth (inches):  Water Table Present? Yes No Depth (inches):  Saturation Present? Yes No Depth (inches):  (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, present)	Wetland Hydrology Present? Yes No
Remarks: Surface water present faither into u	jetland

22 2-11				
Tree Stratum (Plot size: 30 × 30 ff.)	Absolute % Cover	Dominant Species?		Dominance Test worksheet:
1. Liquidambar styraciflua	20	Y	FAC	Number of Dominant Species That Are OBL, FACW, or FAC:(A)
2. Acer rubrum	15	Ÿ	FAC	
3. Platanus occidentalis	15	Ý	FACW	Total Number of Dominant
4. Salix nigra	5	11	OBL	Species Across All Strata: (B)
Community relation relation Unitarity as a supposition statistic and a second fill and	CONTRACTOR OF THE PROPERTY OF	_ 12	Street and the same	Percent of Dominant Species 78
5.				That Are OBL, FACW, or FAC: (A/B)
5				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
27.0	55	= Total Cove		The same of the sa
50% of total cover: 27.5	20% of	total cover:	11_	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 30 x 30 H-)				FACW species x 2 =
1. Liquidambar styraciflua	15	<u> </u>	FAC	FAC species x 3 =
2. Magnolia virginiana	5	7	FACW	FACU species x 4 =
3. Ilex opaca	5	Y	FACU	UPL species x 5 =
				Column Totals: (A) (B)
				Prevalence Index = B/A =
				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
		The state of the s		2 - Dominance Test is >50%
) <u>.</u>	25			3 - Prevalence Index is ≤3.0¹
-ov 17.	:	= Total Cove	5	4 - Morphological Adaptations1 (Provide supporting
50% of total cover: 12 f	20% of	total cover:_		data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 30 × 30 ft)	5	~	FACU	Problematic Hydrophytic Vegetation¹ (Explain)
Polystichum acrostichoides	No. Williams and American			
2.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3				be present, unless disturbed or problematic.
				Definitions of Four Vegetation Strata:
5,				
5.				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
				more in diameter at breast height (DBH), regardless of height.
			CANADAM CONTRACTOR II	
				Sapling/Shrub – Woody plants, excluding vines, less
				than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
0.	AND AND SHOP	Territorio de la companya de la comp		III) tall
	-	A CONTRACTOR OF THE PARTY OF TH	THE CONTRACTOR	Herb – All herbaceous (non-woody) plants, regardless
50% of total cover: 2.5		Total Cove	r ,	of size, and woody plants less than 3.28 ft tall.
50 % Of total cover.	20% of	total cover:_		Woody vine - All woody vines greater than 3.28 ft in
Vitis rotundifolia	5	٧	FAC	height.
•				
Lonicera japonica	5	<u> </u>	FAC	
				Hydrophytic
				Vegetation
		Total Cove		Present? Yes No
	Commence of the state of the			
50% of total cover:	20% of	lulai Luvei.		

Profile Description: (Describe to the de	oth needed to document the indicator or confirm	n the absence of indicators.)
Depth Matrix	Redox Features	
(inches) Color (moist) %	Color (moist) % Type¹ Loc²	Texture Remarks
0-8 2.57 1/2 90	7.5 VR 4/4 10	SL
8-20 2-546/2 TO	1.5 VR +1 (4 19	LS
<sup>1</sup> Type: C=Concentration, D=Depletion, RM	=Reduced Matrix, MS=Masked Sand Grains.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:		Indicators for Problematic Hydric Soils <sup>1</sup> :
Histosol (A1)	Dark Surface (S7)	2 cm Muck (A10) (MLRA 147)
Histic Epipedon (A2)	Polyvalue Below Surface (S8) (MLRA 147,	
Black Histic (A3)	Thin Dark Surface (S9) (MLRA 147, 148)	(MLRA 147, 148)  — Piedmont Floodplain Soils (F19)
Hydrogen Sulfide (A4)     Stratified Layers (A5)	Loamy Gleyed Matrix (F2)  Depleted Matrix (F3)	(MLRA 136, 147)
2 cm Muck (A10) (LRR N)	Redox Dark Surface (F6)	Red Parent Material (TF2)
Depleted Below Dark Surface (A11)	Depleted Dark Surface (F7)	Very Shallow Dark Surface (TF12)
Thick Dark Surface (A12)	Redox Depressions (F8)	Other (Explain in Remarks)
Sandy Mucky Mineral (S1) (LRR N,	Iron-Manganese Masses (F12) (LRR N,	
MLRA 147, 148)  Sandy Gleyed Matrix (S4)	MLRA 136) Umbric Surface (F13) (MLRA 136, 122)	<sup>3</sup> Indicators of hydrophytic vegetation and
Sandy Gleyed Matrix (34) Sandy Redox (S5)	Piedmont Floodplain Soils (F19) (MLRA 14	2 1.0 T. H.
Stripped Matrix (S6)		unless disturbed or problematic.
Restrictive Layer (if observed):		
Type:		7
Depth (inches):		Hydric Soil Present? Yes No
Remarks:		



Wetland data point wnop001f\_w facing east.



Wetland data point wnop001f\_w facing west.

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Project/Site: Applicant/Owner: DOMINION Investigator(s): J. Benton Section, Township, Range: Landform (hillslope, terrace, etc.): \_\_\_Hillslope Local relief (concave, convex, none): hohe Lat: 37.19447 Long: -70,06806 Subregion (LRR or MLRA): LRRP NWI classification: UPLAND Soil Map Unit Name: WOYS Nam Candy 10am Are climatic / hydrologic conditions on the site typical for this time of year? Yes (If no, explain in Remarks.) No 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: Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) \_\_ True Aquatic Plants (B14) Surface Water (A1) \_\_ Drainage Patterns (B10) Hydrogen Sulfide Odor (C1) High Water Table (A2) Oxidized Rhizospheres on Living Roots (C3) \_\_\_ Moss Trim Lines (B16) Saturation (A3) \_\_ Dry-Season Water Table (C2) Presence of Reduced Iron (C4) Water Marks (B1) Recent Iron Reduction in Tilled Soils (C6) \_\_ Crayfish Burrows (C8) Sediment Deposits (B2) Saturation Visible on Aerial Imagery (C9) \_\_ Thin Muck Surface (C7) Drift Deposits (B3) Other (Explain in Remarks) \_\_ Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Geomorphic Position (D2) Iron Deposits (B5) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Microtopographic Relief (D4) Water-Stained Leaves (B9) FAC-Neutral Test (D5) Aquatic Fauna (B13) Field Observations: Depth (inches): \_ Surface Water Present? Water Table Present? Wetland Hydrology Present? Yes\_\_\_\_ Saturation Present? Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

VEGETATION (Four builds) — 636 Scientific II	hris jalidentani da urta	A gric training to make (cit)	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 x 30 ft)		Dominant Species?		Dominance Test worksheet:
1. Liquidambar styraciflua	20	4	FAC	Number of Dominant Species That Are OBL, FACW, or FAC:  (A)
2. Pinus taeda	15	Y	FAC	, , , , , , , , , , , , , , , , , , ,
3. Liriodendron tulipifera	25	Ý	FACU	Total Number of Dominant
4 Prunus serotina	15	Y	FACU	Species Across All Strata: (B)
The Annual Court of the Annual Court of the Annual Court of the Court	Control of Control		THE	Percent of Dominant Species 45
5				That Are OBL, FACW, or FAC: (A/B)
6				
7.				Prevalence Index worksheet:
	75	= Total Cov	er _	Total % Cover of: Multiply by:
50% of total cover: 37.	5 20% of	total cover:		OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 30 x 30 ft)				FACW species x 2 =
1. Ilex opaca	5	Y	FACU	FAC species 55 x3= 165
2 Juniperus virginiana	-5		FACU	FACU species 65 x4= 260
				TO SECURE AND AND AND ADDRESS OF THE PROPERTY
3. Liquidambar styraciflua	(0		FAC	
4				Chapter of the fellow of the fellow of the control
5				Prevalence Index = B/A = 3.54
6				Prevalence Index = B/A =
				Hydrophytic Vegetation Indicators:
7.				1 - Rapid Test for Hydrophytic Vegetation
8.				2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0¹
10	20:	Total Cove	er u	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover: 10	20% of	total cover:	T	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 30 x 30ff)				
1. Polystichum acrostichoides	10	Y	FACU	Problematic Hydrophytic Vegetation¹ (Explain)
2. Allium canadense	5	Y	FALL	
				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3.			Augustonia de la constanta de	be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5,				
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
7				height.
8.				
				Sapling/Shrub - Woody plants, excluding vines, less
			0190 (1110 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
10		-		iii) tali.
11.				Herb - All herbaceous (non-woody) plants, regardless
7 -	15_=	Total Cove	r o	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 7,5	20% of	total cover:_	3	Wands view All woods views greater than 3.28 ft in
Woody Vine Stratum (Plot size: 30 × 30 f+ )				Woody vine – All woody vines greater than 3.28 ft in height.
1 Vitis rotundifolia	5	Y	FAC	and the second of the second o
2 Lonicera japonica	5	Y	FAC	
		The state of the state of		
4				Hydrophytic
5				Vegetation
	10 =	Total Cove	r .	Present? Yes No
50% of total cover: 5	20% of 1	total cover:_	2	
		e personales de la composición de la c		
Remarks: (Include photo numbers here or on a separate sh	ieet.)			

	cription: (Describe	to the dep	th needed to docum	ent the in	ndicator	or confirm	the absence of it	ndicators.)	
Depth	Matrix Color (maint)	0/		Features		1 2	Touture	Remarks	
(inches)	Color (moist)	100	Color (moist)	%	Type <sup>1</sup>	_Loc²	Texture	Remarks	
	70 11001	The state of the s	7 C vn 111						
14-20	20014/2	90	7.5 YR 4/6	10			SL		
MINE .									
SWING AND									
		100 100 100 100 100 100 100 100 100 100					According to Secure 1.		
		le de la companya de							
¹Type: C=C	nncentration D=Den	letion RM=	Reduced Matrix, MS	=Masked	Sand Gra	nins	2 ocation: PI =Po	re Lining, M=Matrix.	
Hydric Soil		icuon, ravi-	-Neddced Watrix, Wc	-waskeu	Odrid Ore	anis.		for Problematic Hy	dric Soils3:
Histosol			Dark Surface	(S7)			2 cm l	Muck (A10) (MLRA 1	47)
and the second state of th	pipedon (A2)		Polyvalue Bel		ce (S8) (N	ILRA 147,		Prairie Redox (A16)	
Black Hi			Thin Dark Su				(ML	RA 147, 148)	
	n Sulfide (A4)		Loamy Gleye		F2)		The state of the s	nont Floodplain Soils	(F19)
The second section of the sect	Layers (A5)		Depleted Mat	THE RESERVE OF THE PARTY OF THE				RA 136, 147)	
	ick (A10) (LRR N)	- (011)	Redox Dark S					Parent Material (TF2) Shallow Dark Surface	(TE12)
	d Below Dark Surfac ark Surface (A12)	e (ATT)	Depleted Dar Redox Depre					(Explain in Remarks)	
3.115.4150e	lucky Mineral (S1) (L	RR N.	Iron-Mangane			LRR N.	_ 00	(Explain in the indire)	
	147, 148)		MLRA 136						
	Bleyed Matrix (S4)		Umbric Surfa					ors of hydrophytic veg	
Sandy R			Piedmont Flo	odplain So	oils (F19)	(MLRA 14		nd hydrology must be	
	Matrix (S6)						unless	s disturbed or probler	natic.
	Layer (if observed):								
Type:			_						No X
	ches):		<u> </u>				Hydric Soil Pre	sent? Yes	NO
Remarks:									



Upland data point wnop001\_u facing east.



Upland data point wnop001\_u facing west.

## WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont

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

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

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



Wetland data point wnok010f\_w facing North



Wetland data point wnok010f\_w facing South



Wetland data point wnok010f\_w soil sample

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