

Non-water data point nohic101 facing northwest



Non-water data point nohic101 facing southeast



Non-water point NOHIA403 facing east



Non-water point NOHIA403 facing west



Non-water data point NOHIA401 facing northeast



Non-water point NOHIA402 facing east



Non-water point NOHIA402 facing west



Non-water point NOHIZ001 facing northwest



Non-water point NOHIZ001 facing southeast



Non-water point NOHIZ002 facing northwest



Non-water point NOHIZ002 facing southeast



Non-water point NOHIZ003 facing northwest



Non-water point NOHIZ003 facing southeast

Project/Site: Atlantic Coast Pip	peline	City/C	ounty: Highland County		Sampling Date: 4/12/2016
Applicant/Owner: Dominion			•		Sampling Point: nohia400
Investigator(s): GB, JS		Section	on, Township, Range: No		
Landform (hillslope, terrace, et					
					Datum: WGS 1984
		Lat.	Long	<b>.</b>	
Soil Map Unit Name:					
Are climatic / hydrologic condit	ions on the site typi	cal for this time of year? Y	es No (I	f no, explain in R	emarks.)
Are Vegetation, Soil	, or Hydrology	significantly distur	bed? Are "Normal	Circumstances" p	present? Yes No
Are Vegetation, Soil	, or Hydrology	naturally problema	atic? (If needed, ex	xplain any answe	rs in Remarks.)
SUMMARY OF FINDIN	GS – Attach sit	te map showing sam	pling point location	ns, transects	, important features, etc.
Hydrophytic Vegetation Pres	ent? Yes	No			
Hydric Soil Present?	Yes	V No	Is the Sampled Area within a Wetland?	Voc	No
Wetland Hydrology Present?		✓ No	within a wettand?	1es	NO
Remarks:					
LIVERSLOOV					
HYDROLOGY					
Wetland Hydrology Indicate					tors (minimum of two required)
Primary Indicators (minimum	of one is required; of			Surface Soil	, ,
Surface Water (A1)		True Aquatic Plants (			getated Concave Surface (B8)
High Water Table (A2)		Hydrogen Sulfide Odd		Drainage Pa	
Saturation (A3)		Oxidized Rhizosphere		Moss Trim Li	
Water Marks (B1)		Presence of Reduced			Water Table (C2)
Sediment Deposits (B2)		Recent Iron Reductio		Crayfish Bur	
Drift Deposits (B3) Algal Mat or Crust (B4)		Thin Muck Surface (C Other (Explain in Ren			sible on Aerial Imagery (C9) tressed Plants (D1)
Iron Deposits (B5)		Other (Explain in Ren	nans)		Position (D2)
Inundation Visible on Ae	rial Imagery (B7)		•	Shallow Aqui	
Water-Stained Leaves (E			•		aphic Relief (D4)
Aquatic Fauna (B13)	-,			FAC-Neutral	
Field Observations:					. ,
Surface Water Present?	Yes No	Depth (inches):			
Water Table Present?		Depth (inches):			
Saturation Present?		Depth (inches):	^	ydrology Preser	nt? Yes 🗸 No
(includes capillary fringe)					
Describe Recorded Data (str	eam gauge, monitor	ring well, aerial photos, pre	vious inspections), if avail	lable:	
Remarks:					
saturation from 0-5" perched	above non saturated	d silt clay B horizon			
·		•			

6.	/EGETATION (Four Strata) – Use scientific na	ames of	plants.		Sampling Point: nohia400
1		Absolute	Dominant Ir	ndicator	Dominance Test worksheet:
2 Prius strobus   15   Yes   FACU   7   7   7   7   7   7   8   7   7   7	(				' '
15   Ves   10   No   FACU   Squerus rubra   Total Number of Dominant Species   Total Active rubra   Total Number of Dominant Species   Total Active rubra   Squerus rubra   Total Number of Dominant Species   Total No   FACU   Percent of Dominant Species   Total No   Total Number of Dominant Species   Total Number of Dominant Speci		15	Yes	FACU	That Are OBL, FACW, OF FAC.
Species Across All Stratatics   (a)		15			
December				FAC	Species Across All Strata: (B)
That Are OBL, FACVW, or FAC: 28.57142857 (APE	**				Percent of Dominant Species
Prevalence Index worksheet:   Total Score	5. Quercus rubra		- INO	FACU	
Total Cover   14.6   Sapling/Shrub Stratum   (Plot size: 15   15   15   15   16   16   16   16			<del></del>		Prevalence Index worksheet:
Some of total cover:   15	T	73	- Total Cayo	<u> </u>	Total % Cover of: Multiply by:
Sapling/Shrub Stratum   (Plot size: 15   15   15   15   15   15   16   16	50% of total cover: 36.5				OBL Species X I =
Prinus strobus	15	20 /0 01	total cover		5 40
Actor rubrum		15	Voc	EACH	20 04
Saylussacia baccata	1.		<del></del>		07 200
Asalmia latifolia					0 0
A Admin latifolia   A			· —		UPL species X 5 =
Prevalence Index = B/A = 3.7  Hydrophytic Vegetation Indicators:  1. Rapid Test for Hydrophytic Vegetation  2. Dominance Test is >50%  3. Prevalence Index is ≤3.0¹  4. Morphological Adaptations¹ (Provide supportir data in Remarks or on a separate sheet)  4. Potentilla indica  2. Symphyotrichum dumosum  3. Mitchella repens  4. Packera aurea  5. No FACU  4. Packera aurea  5. No FAC  5. No FAC  7. Definitions of Four Vegetation Year and wetland hydrology must be present, unless disturbed or problematic.  5. Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  5. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Woody Vine Stratum (Plot size: 30 )  5. Woody Vine Stratum (Plot size: 30 )  6. Woody Vine Stratum (Plot size: 30 )  7. Woody Vine Stratum (Plot size: 30 )  8. Woody Vine Stratum (Plot size: 30 )  9. Tratal Cover (Plot size) (Provide supportir data in Remarks or on a separate sheet)  9. Problematic Hydrophytic Vegetation (Explain)  1. Woody Vine Stratum (Plot size: 30 )  2. Woody Vine Stratum (Plot size: 30 )  3. Woody Vine Stratum (Plot size: 30 )  4. Woody Vine Stratum (Plot size: 30 )  4. Woody Vine Stratum (Plot size: 30 )  4	<sub>4.</sub> Kalmia latifolia	7	No	FACU	Column Totals: (A) (B)
Hydrophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is \$5.0% 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) 4 - Problemilia Indica 5 - No FACU 5 - No FACU 7 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is \$5.0% 3 - Prevalence Index is \$5.0% 3 - Prevalence Index is \$5.0% 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) 5 - No FACU 7 - Rapid Test for Hydrophytic Vegetation 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) 5 - No FACU 8 - Problematic Hydrophytic Vegetation 1 (Explain) 5 - No FACU 7 - Rapid Test for Hydrophytic Vegetation 9 - Problematic Hydrophytic Vegetation 1 (Explain) 7 - Rapid Test for Hydrophytic Vegetation 9 - Problematic Hydrophytic Vegetation 1 (Explain) 7 - Rapid Test for Hydrophytic Vegetation 9 - Problematic Hydrophytic Vegetation 1 (Explain) 9 - Problematic Hydrophytic Vegetation 1 (Explain	5. Quercus alba	4	No	FACU	Prevalence Index = B/A = 3.7
	6				
3.	7				
Solid cover	8				
Solidation   Sol	_				
Solve of total cover:   22   20% of total cover:   8.8   4.   Morphological Adaptations (Provide Supporting data in Remarks or on a separate sheet)		44	= Total Cove	,	
Herb Stratum (Plot size: 5 ) 1, Potentilla indica	50% of total cover: 22				4 - Morphological Adaptations (Provide supporting
Protentilla indica	F				data in Remarks or on a separate sheet)
2 Symphyotrichum dumosum 3 Mitchella repens 5 No FACU 4 Packera aurea 5 No FACU 5 Carex blanda 5 No FACU 6 Carex blanda 6 Yes FACU 7 Definitions of Four Vegetation Strata:  Tree — Woody plants, excluding vines, 3 in. (7.6 cm) of more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub — Woody plants, excluding vines, 2 in. (7.6 cm) of more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub — Woody plants, excluding vines, 2 in. (7.6 cm) of more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub — Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb — All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vine Stratum (Plot size: 30 )  1	,	10	Yes	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3 Mitchella repens 4 Packera aurea 5 No FACU 5 No FACW 5 Carex blanda 6 Definitions of Four Vegetation Strata: Tree — Woody plants, excluding vines, 3 in. (7.6 cm) on height.  Sapling/Shrub — Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb — All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody Vine Stratum (Plot size: 30 ) 1	!-	6	· ——		
4. Packera aurea  5 No FACW 5 Carex blanda  2 No FAC  6					<sup>1</sup> Indicators of hydric soil and wetland hydrology must
Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody Vine Stratum (Plot size: 30 )  1			· ——		
Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody Vine Stratum (Plot size: 30 )  1	T				Definitions of Four Vegetation Strata:
more in diameter at breast height (DBH), regardless on height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody Vine Stratum (Plot size: 30 )  1	5. Carex bianda		No	FAC	Tree Meaduralants avaluation viscos 2 in (7.0 cm) on
7	6		. <u> </u>		
99	7				
9	8				
m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody Vine Stratum (Plot size: 30 )  1	9.				
Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody Vine Stratum (Plot size: 30 )  1. 22. 33. 4. 55. 50% of total cover: 0 = Total Cover 50% of total cover: 0 = Total Cover 70   Total Cover 10   Total Co	10.		·		X 4 11
28 = Total Cover 50% of total cover: 14 20% of total cover: 5.6  Woody Vine Stratum (Plot size: 30 )  1.	<u> </u>		· - <u></u> -		
50% of total cover: 14 20% of total cover: 5.6  Woody Vine Stratum (Plot size: 30 )  1		28	- Total Cayo	<del></del>	
Woody Vine Stratum (Plot size: 30 )  1.	50% of total cover: 14				or size, and woody plants less than 5.20 it tail.
1		2070 01	total cover		
2	/ lot size				height.
3					
4	2		<del></del>		
5	3				
5	4				Hydrophytic
50% of total cover: 0 20% of total cover: 0	5				Vegetation
50% of total cover		0	= Total Cover	r	Present? Yes No
Remarks: (Include photo numbers here or on a separate sheet.)	50% of total cover:0	20% of	f total cover:_	0	
	Remarks: (Include photo numbers here or on a separate si				
		,			

Sampling Point: nohia400

Profile Desc	ription: (Describe to	o the dep	oth needed to docur	nent the i	ndicator	or confirm	the abs	ence of indicators.)
Depth	Matrix			x Feature	S			
(inches) 0-2	Color (moist) 10YR 3/1	<u>%</u> 100	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Textu</u> L	re Remarks
3-5	10YR 5/2	80	7.5YR 4/6	20	С	PL/M	CL	
5-18	10YR 5/6	50					SIC	;
	10YR 6/2	50					SIC	;
	·				-		-	
						· ——		
						· ——		
<sup>1</sup> Type: C=C Hydric Soil	oncentration, D=Deple	etion, RM	=Reduced Matrix, MS	S=Masked	Sand Gr	ains.		on: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :
-			Dark Surface	(97)			'	•
Histosol	oipedon (A2)		Polyvalue Be	. ,	ce (S8) <b>(N</b>	/II RΔ 147	148)	2 cm Muck (A10) <b>(MLRA 147)</b> Coast Prairie Redox (A16)
	stic (A3)		Thin Dark Su				140,	(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye			, -,	_	Piedmont Floodplain Soils (F19)
Stratified	d Layers (A5)		✓ Depleted Ma	trix (F3)				(MLRA 136, 147)
	ıck (A10) <b>(LRR N)</b>		Redox Dark				=	Very Shallow Dark Surface (TF12)
	d Below Dark Surface	(A11)	Depleted Date		. ,		-	Other (Explain in Remarks)
	ark Surface (A12) ⁄lucky Mineral (S1) <b>(Ll</b>	DD N	Redox Depre Iron-Mangan			I DD N		
	A 147, 148)	, , , , , , , , , , , , , , , , , , ,	MLRA 13		C3 (1 12) <b>(</b>	LIXIX IV,		
	Gleyed Matrix (S4)		Umbric Surfa	•	MLRA 13	6, 122)		<sup>3</sup> Indicators of hydrophytic vegetation and
Sandy F	Redox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	l8)	wetland hydrology must be present,
	Matrix (S6)		Red Parent N	/laterial (F	21) <b>(MLR</b>	A 127, 147	7)	unless disturbed or problematic.
Restrictive	Layer (if observed):							
Type: silf	ty ciay							.,
Depth (in	ches): 5						Hydric	Soil Present? Yes No
Remarks:								



Photo 1 Non waterbody data point NOHIA400 facing west

Project/Site: Atlantic Coast Pipeline		City/C	county: Bath County		Sampling Date: 10/28/2016
Applicant/Owner: Dominion				State: VA	Sampling Point: nobaa001
			on, Township, Range: No		
Landform (hillslope, terrace, etc.): floodpla					
Subregion (LRR or MLRA): S	Lat:	38.13256457	Long79.	60845858	Datum: WGS 1984
Soil Map Unit Name:				NWI classifi	cation: UPLAND
Are climatic / hydrologic conditions on the					
Are Vegetation, Soil, or Hy					
Are Vegetation, Soil, or Hy					
SUMMARY OF FINDINGS – Atta	acii site ilia	ap snowing san	ipinig point locatio	Jiis, transect	s, important leatures, etc.
Hydrophytic Vegetation Present?	Yes		Is the Sampled Area		
Hydric Soil Present?		No	within a Wetland?	Yes	No
Wetland Hydrology Present?  Remarks:	Yes	No			
HYDROLOGY					
Wetland Hydrology Indicators:				Secondary Indic	ators (minimum of two required)
Primary Indicators (minimum of one is re	quired; check	all that apply)		Surface Soi	Cracks (B6)
Surface Water (A1)		True Aquatic Plants (			egetated Concave Surface (B8)
High Water Table (A2)		Hydrogen Sulfide Od		✓ Drainage Pa	
Saturation (A3)			es on Living Roots (C3)	Moss Trim L	, ,
Water Marks (B1)		Presence of Reduced			Water Table (C2)
Sediment Deposits (B2)		Recent Iron Reductio		Crayfish Bu	
Drift Deposits (B3) Algal Mat or Crust (B4)		Thin Muck Surface (C Other (Explain in Rer			/isible on Aerial Imagery (C9) Stressed Plants (D1)
Iron Deposits (B5)	<u> </u>	Outer (Explain in Itel	narko)	Geomorphic	• •
Inundation Visible on Aerial Imagery	(B7)			Shallow Aqu	
Water-Stained Leaves (B9)	,				aphic Relief (D4)
Aquatic Fauna (B13)				FAC-Neutra	l Test (D5)
Field Observations:					
		Depth (inches):			
Water Table Present? Yes	No	Depth (inches):			
Saturation Present? Yes (includes capillary fringe)	No	Depth (inches):	Wetland H	Hydrology Prese	nt? Yes <u>/</u> No
Describe Recorded Data (stream gauge,	monitoring w	ell, aerial photos, pre	vious inspections), if ava	ailable:	
Domarka:					
Remarks:					

00		plants.		Sampling Point: nobaa001
ree Stratum (Plot size:30)	Absolute	Dominant I	ndicator	Dominance Test worksheet:
Platanus occidentalis	% Cover 25	Species? Yes	Status FACW	Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)
Carya cordiformis	20	Yes	FACU	That Are OBL, FACW, OF FAC (A)
Juglans nigra	15	Yes	FACU	Total Number of Dominant
	10	No	FACU	Species Across All Strata: 8 (B)
Liriodendron tulipifera			FACU	Percent of Dominant Species
i				That Are OBL, FACW, or FAC: 50 (A/B
)				Prevalence Index worksheet:
<u>'.                                    </u>	70			Total % Cover of: Multiply by:
50% of total cover 35	:	= Total Cove	r 14	OBL species 0 x 1 = 0
15	_ 20% 01	total cover:_		FACW species 25 x 2 = 50
Sapling/Shrub Stratum (Plot size:)	40	V		50 150
Elaeagnus umbellata	40	Yes		FAC species
Lindera benzoin	20	Yes	FAC	FACU species x 4 =
Rosa multiflora	10	No	FACU	UPL species x 5 =
Symphoricarpos orbiculatus	5	No	FACU	Column Totals:148
5				Prevalence Index = B/A =3.32
)				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
3				
).				2 - Dominance Test is >50%
	75 .	= Total Cove		3 - Prevalence Index is ≤3.0 <sup>1</sup>
50% of total cover: 37.5		total cover:_	່ 15	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
Herb Stratum (Plot size: 5 )				data in Remarks or on a separate sheet)
Verbesina alternifolia	15	Yes	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Glechoma hederacea	8	Yes	FACU	
Alliaria petiolata		No	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3. Alliana peliolata			TACO	be present, unless disturbed or problematic.
·				Definitions of Four Vegetation Strata:
j				The Manharton webstern in a Circ (70 cm)
S				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
<b>.</b>				height.
3				
].				Sapling/Shrub – Woody plants, excluding vines, less
				than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
				1,
1	28			Herb – All herbaceous (non-woody) plants, regardless
50% of total cover 14		= Total Cove	r 5.6	of size, and woody plants less than 3.28 ft tall.
50% of total cover:14	_ 20% or	total cover:_	0.0	<b>Woody vine</b> – All woody vines greater than 3.28 ft in
20				to a factor
Voody Vine Stratum (Plot size:30)	4-	\/	E40	height.
Noody Vine Stratum (Plot size:) Smilax rotundifolia	15	Yes	FAC	neight.
vecay vine chatain (Field Size.		Yes	FAC	neight.
Smilax rotundifolia		Yes	FAC	neight.
Smilax rotundifolia			FAC	
Smilax rotundifolia			FAC	Hydrophytic
Smilax rotundifolia				
Smilax rotundifolia	15 .			Hydrophytic Vegetation

Sampling Point: nobaa001

	cription: (Describe	to the dept				or confirm	the abse	nce of indicators.)
Depth	Matrix	%	Redo	K Features	T a 1	Loc <sup>2</sup>	T	Damada
(inches) 0-7	Color (moist) 10YR 2/2	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	LOC	Texture SL	e Remarks
							-	
7-14	10YR 3/2	100					LS	
14-30	10YR 3/3	100					LS	
	-							<del>-</del>
						. ———		
					-			
1T C. C	Name and the state of the state	mlatian DM	Dadwaad Matrix MC	· Maalaad	Cand Ca		21	. Di Dava Linia e M Matric
	Concentration, D=De Indicators:	pietion, Rivi=	Reduced Matrix, MS	=IVIasked	Sand Gr	ains.		: PL=Pore Lining, M=Matrix. dicators for Problematic Hydric Soils <sup>3</sup> :
•			David Overface	(07)			""	
Histoso			Dark Surface		· · (Oo) (I		440)	_ 2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be				148)	Coast Prairie Redox (A16)
	listic (A3)		Thin Dark Su	. ,	•	147, 148)		(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye		F2)		_	Piedmont Floodplain Soils (F19)
	ed Layers (A5)		Depleted Mat		·C)			(MLRA 136, 147)
	uck (A10) (LRR N)	00 (011)	Redox Dark S				_	<ul><li>Very Shallow Dark Surface (TF12)</li><li>Other (Explain in Remarks)</li></ul>
	ed Below Dark Surface	ce (ATT)	Depleted Dar				_	_ Other (Explain in Remarks)
	Park Surface (A12)	(I DD N	Redox Depre			I DD N		
	Mucky Mineral (S1) (	(LKK N,	Iron-Mangan		3S (F 12) (	LKK N,		
	<b>A 147, 148)</b> Gleyed Matrix (S4)		MLRA 136 Umbric Surfa		MI DA 12	e 122\	:	<sup>3</sup> Indicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					wetland hydrology must be present,
-	d Matrix (S6)		Red Parent N					
	Layer (if observed)	١.	Neu Faieill II	ialenai (i	ZI) (IVILIX	A 121, 141	1	unless disturbed or problematic.
Type:	one	).						
			<del></del>					.,
Depth (ir	nches):		<del></del>				Hydric \$	Soil Present? Yes No
Remarks:								



Non-water data point NOBAA001 facing north



Non-water data point NOBAA001 facing west

Project/Site: Atlantic Coast Pipeline		City/C	county: Bath County		Sampling Date: 10/28/2016
Applicant/Owner: Dominion				State: VA	Sampling Point: nobaa001
			on, Township, Range: No		
Landform (hillslope, terrace, etc.): floodpla					
Subregion (LRR or MLRA): S	Lat:	38.13256457	Long79.	60845858	Datum: WGS 1984
Soil Map Unit Name:				NWI classifi	cation: UPLAND
Are climatic / hydrologic conditions on the					
Are Vegetation, Soil, or Hy					
Are Vegetation, Soil, or Hy					
SUMMARY OF FINDINGS – Atta	acii site ilia	ap snowing san	ipinig point locatio	Jiis, transect	s, important leatures, etc.
Hydrophytic Vegetation Present?	Yes		Is the Sampled Area		
Hydric Soil Present?		No	within a Wetland?	Yes	No
Wetland Hydrology Present?  Remarks:	Yes	No			
HYDROLOGY					
Wetland Hydrology Indicators:				Secondary Indic	ators (minimum of two required)
Primary Indicators (minimum of one is re	quired; check	all that apply)		Surface Soi	Cracks (B6)
Surface Water (A1)		True Aquatic Plants (			egetated Concave Surface (B8)
High Water Table (A2)		Hydrogen Sulfide Od		✓ Drainage Pa	
Saturation (A3)			es on Living Roots (C3)	Moss Trim L	, ,
Water Marks (B1)		Presence of Reduced			Water Table (C2)
Sediment Deposits (B2)		Recent Iron Reductio		Crayfish Bu	
Drift Deposits (B3) Algal Mat or Crust (B4)		Thin Muck Surface (C Other (Explain in Rer			/isible on Aerial Imagery (C9) Stressed Plants (D1)
Iron Deposits (B5)	<u> </u>	Outer (Explain in Itel	narko)	Geomorphic	• •
Inundation Visible on Aerial Imagery	(B7)			Shallow Aqu	
Water-Stained Leaves (B9)	,				aphic Relief (D4)
Aquatic Fauna (B13)				FAC-Neutra	l Test (D5)
Field Observations:					
		Depth (inches):			
Water Table Present? Yes	No	Depth (inches):			
Saturation Present? Yes (includes capillary fringe)	No	Depth (inches):	Wetland H	Hydrology Prese	nt? Yes <u>/</u> No
Describe Recorded Data (stream gauge,	monitoring w	ell, aerial photos, pre	vious inspections), if ava	ailable:	
Domarka:					
Remarks:					

00		plants.		Sampling Point: nobaa001
ree Stratum (Plot size:30)	Absolute	Dominant I	ndicator	Dominance Test worksheet:
Platanus occidentalis	% Cover 25	Species? Yes	Status FACW	Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)
Carya cordiformis	20	Yes	FACU	That Are OBL, FACW, OF FAC (A)
Juglans nigra	15	Yes	FACU	Total Number of Dominant
	10	No	FACU	Species Across All Strata: 8 (B)
Liriodendron tulipifera			FACU	Percent of Dominant Species
i				That Are OBL, FACW, or FAC: 50 (A/B
)				Prevalence Index worksheet:
<u>'.                                    </u>	70			Total % Cover of: Multiply by:
50% of total cover 35	:	= Total Cove	r 14	OBL species 0 x 1 = 0
15	_ 20% 01	total cover:_		FACW species 25 x 2 = 50
Sapling/Shrub Stratum (Plot size:)	40	V		50 150
Elaeagnus umbellata	40	Yes		FAC species
Lindera benzoin	20	Yes	FAC	FACU species x 4 =
Rosa multiflora	10	No	FACU	UPL species x 5 =
Symphoricarpos orbiculatus	5	No	FACU	Column Totals:148
5				Prevalence Index = B/A =3.32
)				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
3				
).				2 - Dominance Test is >50%
	75 .	= Total Cove		3 - Prevalence Index is ≤3.0 <sup>1</sup>
50% of total cover: 37.5		total cover:_	່ 15	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
Herb Stratum (Plot size: 5 )				data in Remarks or on a separate sheet)
Verbesina alternifolia	15	Yes	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Glechoma hederacea	8	Yes	FACU	
Alliaria petiolata		No	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3. Alliana peliolata			TACO	be present, unless disturbed or problematic.
·				Definitions of Four Vegetation Strata:
j				The Manharton webstern in a Circ (70 cm)
S				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
<b>.</b>				height.
3				
].				Sapling/Shrub – Woody plants, excluding vines, less
				than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
				1,
1	28			Herb – All herbaceous (non-woody) plants, regardless
50% of total cover 14		= Total Cove	r 5.6	of size, and woody plants less than 3.28 ft tall.
50% of total cover:14	_ 20% or	total cover:_	0.0	<b>Woody vine</b> – All woody vines greater than 3.28 ft in
20				to a factor
Voody Vine Stratum (Plot size:30)	4-	\/	E40	height.
Noody Vine Stratum (Plot size:) Smilax rotundifolia	15	Yes	FAC	neight.
vecay vine chatain (Field Size.		Yes	FAC	neight.
Smilax rotundifolia		Yes	FAC	neight.
Smilax rotundifolia			FAC	
Smilax rotundifolia			FAC	Hydrophytic
Smilax rotundifolia				
Smilax rotundifolia	15 .			Hydrophytic Vegetation

Sampling Point: nobaa001

	cription: (Describe	to the dept				or confirm	the abse	nce of indicators.)
Depth	Matrix	%	Redo	K Features	T a 1	Loc <sup>2</sup>	T	Damada
(inches) 0-7	Color (moist) 10YR 2/2	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	LOC	Texture SL	e Remarks
							-	
7-14	10YR 3/2	100					LS	
14-30	10YR 3/3	100					LS	
	-							<del>-</del>
						. ———		
					-			
1T C. C	Name and the state of the state	mlatian DM	Dadwaad Matrix MC	· Maalaad	Cand Ca		21	. Di Dava Linia e M Matric
	Concentration, D=De Indicators:	pietion, Rivi=	Reduced Matrix, MS	=IVIasked	Sand Gr	ains.		: PL=Pore Lining, M=Matrix. dicators for Problematic Hydric Soils <sup>3</sup> :
•			David Overface	(07)			""	
Histoso			Dark Surface		· · (Oo) (I		440)	_ 2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be				148)	Coast Prairie Redox (A16)
	listic (A3)		Thin Dark Su	. ,	•	147, 148)		(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye		F2)		_	Piedmont Floodplain Soils (F19)
	ed Layers (A5)		Depleted Mat		·C)			(MLRA 136, 147)
	uck (A10) (LRR N)	00 (011)	Redox Dark S				_	<ul><li>Very Shallow Dark Surface (TF12)</li><li>Other (Explain in Remarks)</li></ul>
	ed Below Dark Surface	ce (ATT)	Depleted Dar				_	_ Other (Explain in Remarks)
	Park Surface (A12)	(I DD N	Redox Depre			I DD N		
	Mucky Mineral (S1) (	(LKK N,	Iron-Mangan		es (F12) <b>(</b>	LKK N,		
	<b>A 147, 148)</b> Gleyed Matrix (S4)		MLRA 136 Umbric Surfa		MI DA 12	e 122\	:	<sup>3</sup> Indicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					wetland hydrology must be present,
-	d Matrix (S6)		Red Parent N					
	Layer (if observed)	١.	Neu Faieill II	ialenai (i	ZI) (IVILIX	A 121, 141	1	unless disturbed or problematic.
Type:	one	).						
			<del></del>					.,
Depth (ir	nches):		<del></del>				Hydric \$	Soil Present? Yes No
Remarks:								



Non-water data point NOBAA001 facing north



Non-water data point NOBAA001 facing west



Non-water point NOBAZ003 facing northwest



Non-water point NOBAZ003 facing southeast



Non-water point NOBAA002 facing southeast

Project/Site: Atlantic Coast Pipeline		City/County: Bath County	s	Sampling Date: 6/13/2016
Applicant/Owner: DOMINION				
	;	Section, Township, Range: No I		
Landform (hillslope, terrace, etc.): Floodplain				Slope (%): <sup>3</sup>
Subregion (LRR or MLRA): S				
Soil Map Unit Name: Coursey silt loam, 0 to	3 percent slopes, rarely flo	oded	NWI classificat	ion: UPL
Are climatic / hydrologic conditions on the site				
Are Vegetation, Soil, or Hydro	ology significantly	disturbed? Are "Normal (	Circumstances" pre	esent? Yes No
Are Vegetation, Soil, or Hydro				
SUMMARY OF FINDINGS – Attack				
Hydrophytic Vegetation Present? Yes	es No			
	es No	Is the Sampled Area	Yes	No. V
	es No_ 🗸	within a Wetland?	Yes	NO
Remarks:		I		
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indicato	rs (minimum of two required)
Primary Indicators (minimum of one is requi	red; check all that apply)		Surface Soil Cr	
Surface Water (A1)	True Aquatic Pla			tated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfid		Drainage Patte	
Saturation (A3)	· · ·		Moss Trim Line	
Water Marks (B1)	Presence of Re	duced Iron (C4)	Dry-Season Wa	ater Table (C2)
Sediment Deposits (B2)	Recent Iron Rec	luction in Tilled Soils (C6)	Crayfish Burrov	ws (C8)
Drift Deposits (B3)	Thin Muck Surfa		Saturation Visit	ole on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in	n Remarks)	Stunted or Stre	essed Plants (D1)
Iron Deposits (B5)		-	Geomorphic Po	
Inundation Visible on Aerial Imagery (B	7)	-	Shallow Aquita	
Water-Stained Leaves (B9)		-	Microtopograph	
Aquatic Fauna (B13)		<u>-</u>	FAC-Neutral Te	est (D5)
Field Observations:	No. V Dandh (inches)			
	No Depth (inches):  No Depth (inches):			
Saturation Present? Yes (includes capillary fringe)	No Depth (inches):	wetland Hy	/drology Present?	Yes No
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photo	s, previous inspections), if avail	able:	
Remarks:				

/EGETATION (Four Strata) – Use scientific na	ames of	plants.		Sampling Point: nobaz001
22	Absolute	Dominant I		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:)  1. none	% Cover 0	Species?	<u>Status</u>	Number of Dominant Species That Are OBL, FACW, or FAC:0 (A)
2				
3				Total Number of Dominant Species Across All Strata:  1 (B)
4		·		Openies Across Air Strata.
T				Percent of Dominant Species
5				That Are OBL, FACW, or FAC:0 (A/B)
6				Prevalence Index worksheet:
7	0			Total % Cover of: Multiply by:
		= Total Cove	r O	OBL species0 x 1 =0
50% of total cover:015	20% of	total cover:_		0
Sapling/Shrub Stratum (Plot size:)	•			0
1. none	0			FAC species
2				FACU species X 4 =
3				UPL species
4				Column Totals: (A) (B)
5				Prevalence Index = B/A = 4.1
6				1 Tevalence Index = B/TT =
7				Hydrophytic Vegetation Indicators:
8				1 - Rapid Test for Hydrophytic Vegetation
9.				2 - Dominance Test is >50%
9	0	Total Cava		3 - Prevalence Index is ≤3.0 <sup>1</sup>
50% of total cover:		= Total Cove total cover:	0	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
	20 /6 01	total cover		data in Remarks or on a separate sheet)
Herb Stratum (Plot size:)  1 Poa pratensis)	80	Yes	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Plantago lanceolata	10	No	UPL	
3. Trifolium repens	10	No	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3. Thiolium repens			FACU	be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				Tree Woody plants evaluating vince 2 in (7.6 cm) or
6				<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
7				height.
8				Continue (Charache Manda and and and and and and
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.		· -		Herb – All herbaceous (non-woody) plants, regardless
	100	= Total Cove		of size, and woody plants less than 3.28 ft tall.
50% of total cover: 50		total cover:_		
Woody Vine Stratum (Plot size: 30 )		_		<b>Woody vine</b> – All woody vines greater than 3.28 ft in height.
1. none	0			neight.
0		·		
3.				
4				Hydrophytic
5	0			Vegetation Present?  Yes No
50% of total cover: 0		= Total Cove	^	100 NO
		total cover:_		
Remarks: (Include photo numbers here or on a separate si	neet.)			

Sampling Point: nobaz001

0-3 10YR 4/3 100 SICL  3-19 10YR 5/4 100 SICL  S	Depth	Matrix		Redox Features	<del>,</del> _	
3-19 10YR 5/4 100 SICL  SIC  SIC	inches)	Color (moist)	<u>%</u>	Color (moist) % Type <sup>1</sup> Loc		Remarks
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.    Cacation: PL=Pore Lining, M=Matrix.	0-3	10YR 4/3	100		SICL	
Histosol (A1)	3-19	10YR 5/4	100		SICL	
Histosol (A1)					<del></del> , - <del></del>	
Histosol (A1)						
Histosol (A1)						
Histosol (A1)						
Histosol (A1)		-			<del></del>	
Histosol (A1)					<u> </u>	<u> </u>
Histosol (A1)						
Histosol (A1)		-				-
Histosol (A1)						
Histosol (A1)						
Histosol (A1)						
Histosol (A1)	T C. C		Jatian DM D	adveced Matrix MC Macked Cond Corina	21	DI Dans Lining M Matrix
Histosol (A1)			oletion, RM=Re	educed Matrix, MS=Masked Sand Grains.		
Histic Epipedon (A2)	-					
						, , ,
Stratified Layers (A5)						
2 cm Muck (A10) (LRR N) Redox Dark Surface (F6) Very Shallow Dark Surface (TF12) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Other (Explain in Remarks) Thick Dark Surface (A12) Redox Depressions (F8) Iron-Manganese Masses (F12) (LRR N, MLRA 147, 148) MLRA 136) Sandy Gleyed Matrix (S4) Umbric Surface (F13) (MLRA 136, 122) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) unless disturbed or problematic.  Type: Depth (inches): Hydric Soil Present? Yes No						
Thick Dark Surface (A12)						
Sandy Mucky Mineral (S1) (LRR N,			e (A11)			Other (Explain in Remarks)
MLRA 147, 148)  _ Sandy Gleyed Matrix (S4)  _ Sandy Redox (S5)  _ Stripped Matrix (S6)  _ Red Parent Material (F21) (MLRA 127, 147)						
Sandy Gleyed Matrix (S4) Umbric Surface (F13) (MLRA 136, 122) 3Indicators of hydrophytic vegetation and Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) wetland hydrology must be present, unless disturbed or problematic.  estrictive Layer (if observed):  Type: Depth (inches): Hydric Soil Present? Yes No V			LRR N,		,	
Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) wetland hydrology must be present, Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) unless disturbed or problematic.  estrictive Layer (if observed):  Type: Depth (inches): Hydric Soil Present? Yes No V				•		
Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) unless disturbed or problematic.  estrictive Layer (if observed):  Type:  Depth (inches): Hydric Soil Present? Yes No						
Depth (inches): No	-					
Type:				Red Parent Material (F21) (MLRA 127,	<b>147)</b> u	nless disturbed or problematic.
Depth (inches): No	estrictive	Layer (if observed)	:			
Depth (inches): No	Type:			_		
		ches):			Hydric So	il Present? Yes No
					, ,	
	terriarks.					



Non-water data point NOBAZ001 facing east



Non-water data point NOBAZ001 facing north



Non-water point NOBAZ002 facing northwest



Non-water point NOBAZ002 facing southeast

Project/Site: ACP	City/County: _	Bath		Sampling Date: 3/24/16
Applicant/Owner: Dominion				_ Sampling Point: 10691003
Investigator(s): J Benton	Section, Town		A	
Landform (hillslope, terrace, etc.): floodolain	Local relief (conc	ave convex none	. Concave	Slope (%): 4
Subregion (LRR or MLRA): LRRN Lat: 38	11478	ave, curivex, none	79.49526	Datum: W65-84
Subregion (LRH or MLRA): Lat Lat	9/ 61-11 000	Cl - la	AMAR -localifica	NIA
Soil Map Unit Name: Atkins silt loam, 0-3	A CHANGE THE TAX SCHOOL AND THE SELECTION AND THE STATE OF			
Are climatic / hydrologic conditions on the site typical for this				
Are Vegetation, Soil, or Hydrologys	gnificantly disturbed?			esent? Yes X No
Are Vegetation, Soil, or Hydrology n	aturally problematic?	(If needed, ex	plain any answers	s in Remarks.)
SUMMARY OF FINDINGS - Attach site map	showing sampling	point location	s, transects,	Important features, etc.
Hydrophytic Vegetation Present?         Yes	within	Sampled Area a Wetland?	Yes	_ No_X
Remarks:				
Non-water point for NW:	E mapped for	cature (no	t wetland	
HYDROLOGY				
Wetland Hydrology Indicators:		보이다 집에서 하시네네 보면하는 지점에 되었다.	AND TAKEN BUTTONIAN AND STREET, STATE	ors (minimum of two required)
Primary Indicators (minimum of one is required; check all t			_ Surface Soil C	
The contract of the contract o	Aquatic Plants (B14) ogen Sulfide Odor (C1)			etated Concave Surface (B8)
	ized Rhizospheres on Lh		_ Drainage Patt _ Moss Trim Lir	
	ence of Reduced Iron (C			Vater Table (C2)
	ent Iron Reduction in Tille	d Soils (C6)	Crayfish Burn	
Drift Deposits (B3) Thin	Muck Surface (C7)			sible on Aerial Imagery (C9)
- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	r (Explain in Remarks)	[[일] [[일] [[일] 대통령 [[일] [[] [] [] [] [] []		ressed Plants (D1)
Iron Deposits (B5)			Geomorphic F Shallow Aquit	(1) 마음 마음 마음 마음 마음 다시 아니라 아니라 아니라 이번 사람이 있다. 이 사람이 아니라
Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)			Microtopogra	
Aquatic Fauna (B13)			_ FAC-Neutral	
Field Observations:		SALIS NECESSARY	Table Country of the Parish Country	
Surface Water Present? Yes No _X Dep	oth (inches): N/A			
Water Table Present? Yes No _X Dep	oth (inches): 720			./
Saturation Present7 Yes X No Der (includes capillary fringe)		Wetland Hy	drology Presen	17 Yes NoX
Describe Recorded Data (stream gauge, monitoring well, a	erial photos, previous in	spections), if availa	able:	
Remarks:				

20. 2051	Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: 30 x 30 H)		Species?	Status	Number of Dominant Species	1	
1. Acerrubrum	20	1	FAC	That Are OBL, FACW, or FAC:	6	(A)
2 Quercus alba	20	Y	FAC		0	
3 Carya ovata	15	J	FACU	Total Number of Dominant Species Across All Strata:	8	(B)
4. Betila nigra	15	4	FACW	Species Across Air chara.		(5)
	-13	-	171000	Percent of Dominant Species	75	
5		73973222334674		That Are OBL, FACW, or FAC:	10	(A/B)
6				Prevalence Index worksheet:		
7.	Marianta.			Tall tales and comments for recognitional and comments of the first of the control of the comments of the comm		
	70	= Total Cov	er	Total % Cover of: M		
50% of total cover_35	20% of	total cover	14	OBL species x 1 =		
Sapling/Shrub Stratum (Plot size: 30 × 30 H)				FACW species x 2 =		
1. Acer rubrum	10	1	FAC	FAC species x3 =		
z Carpinus caroliniana	5	4	FAC	FACU species x 4 =		
2 Cod pillos Col olimiaria	=	-1,	FACU	UPL species x 5 =		PERSONAL PROPERTY.
3 Kalmia latifolia	Cercardor Harthatter	7-	EMLU	Column Totals: (A)		e Managhi and
4.				Column Totals(A)		_ (0)
5				Prevalence Index = B/A =		
6.				Hydrophytic Vegetation Indicators		
7				<ul> <li>1. (2) (2) (2) (3) (3) (4) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4</li></ul>		
8				1 - Rapid Test for Hydrophytic V	egetation	
		A 100 100 100 100 100 100 100 100 100 10	AND SHIP	∠ 2 - Dominance Test is >50%		V
9	7-		AND COLUMN TO STATE OF THE	3 - Prevalence Index is ≤3.01		
10	20	= Total Cov	er	4 - Morphological Adaptations1 (	Provide supp	orting
50% of total cover: 10	20% of	total cover	-4-	data in Remarks or on a sepa		
Herb Stratum (Plot size: 30 x 30 H)				Problematic Hydrophytic Vegeta		n)
1 none				Problemade Hydrophydd Vegeta	mon (Capital	"
2						
3.				Indicators of hydric soil and wetland be present, unless disturbed or problem.	hydrology m	nust
4.	Superior and a second section of	Cheetala scattraval da to tri	Charles been deep and and the	Southern Carle and April 10 to the Control of the C	A STATE OF THE PARTY OF THE PARTY OF THE	
				Definitions of Four Vegetation Stra	ata:	
5.				Tree - Woody plants, excluding vine	s. 3 in. (7.6 d	cm) or
6.				more in diameter at breast height (Di	BH), regardle	ess of
7,				height.		
8.				Sapling/Shrub - Woody plants, exc	luding vinge	lace
				than 3 in. DBH and greater than or e	equal to 3.28	ft (1
10				m) tall.		
		ASC SOLVE OF	ASSESSED OF THE			
	0.	12 AUGUST 12 1		Herb - All herbaceous (non-woody)	plants, regar	dless
	Appropriate the Confidence of	Total Cove		of size, and woody plants less than 3	3.20 H tall.	
50% of total cover:	20% 01	total cover.	<u> </u>	Woody vine - All woody vines great	ter than 3.28	ft in
Woody Vine Stratum (Plot size: 30 x 30 Ph)	_		-1-	height.		
1. Smilax rotundifolia	5	7	FAC			
2.						
3						
		4.800				
		7.777735		Hydrophytic		
		LAND PROPERTY		Vegetation Present? Yes X N	lo.	
2 -		Total Cove	A STATE OF THE PARTY OF THE PAR	Presentr res_/ ii	E manage	
50% of total cover: 2.5	_ 20% of	total cover:	Em Laborat			
Remarks: (Include photo numbers here or on a separate sh	neet.)					

Profile Desc	ription: (Describe	to the dept				or confirm	the absence	of Indicators.)
Depth	Matrix			x Features		1 2	T	Remarks
(inches)	Color (moist)		Color (moist)	%	Type'	Loc	<u>Texture</u>	Remarks
0-6	. 02/	100	== .0 = /-	-				A COLUMN CONTRACTOR OF THE COLUMN COLUMN CONTRACTOR OF THE COLUMN COLUMN CONTRACTOR OF THE COLUMN COLUMN COLUMN COLUMN CONTRACTOR OF THE COLUMN
6-16	10/R 3/4	70	7.54R 5/8	30		W	-	
16-20	2,54 4/2	80	7.5 YR 5/8	20	C	M	SIL	
87778E-1277					1000	14507		
		-						
						44.45		
13 V 11567 - 117945.								
	oncentration, D=Dep	letion, RM=	Reduced Matrix, MS	=Masked	Sand Gra	ins.	<sup>2</sup> Location: PL	=Pore Lining, M=Matrix.
Hydric Soll								ators for Problematic Hydric Solls <sup>1</sup> :
Histosol			Dark Surface		4000 44			cm Muck (A10) (MLRA 147)
	olpedon (A2) stic (A3)		— Polyvalue Be — Thin Dark Su				148) C	oast Prairie Redox (A15) (MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye			41, 140)	Р	iedmont Floodplain Soils (F19)
	Layers (A5)		Depleted Mat					(MLRA 136, 147)
	ick (A10) (LRR N)		Redox Dark					ed Parent Material (TF2)
	d Below Dark Surfac	e (A11)	Depleted Dar					ery Shallow Dark Surface (TF12)
	ark Surface (A12)	W	Redox Depre			DO N	0	Other (Explain in Remarks)
	lucky Mineral (S1) (I A 147, 148)	LHH N,	Iron-Mangan		es (F12) (	LRR N,		
	Gleyed Matrix (S4)		Umbric Surfa		MLRA 13	6. 122)	3Ind	icators of hydrophytic vegetation and
	ledox (S5)		Piedmont Flo				(8) W	etland hydrology must be present,
	Matrix (S6)						u	nless disturbed or problematic.
	Layer (if observed):							
Type:							Muddle Sall	Present? Yes NoX
CENTER LEDWING THE PROPERTY OF THE PARTY.	ches):	PRESIDENT STATE					Hydric Soli	Present res
Remarks:								
								RECORD (1987년 1일

### Environmental Field Surveys Non-Water Photo Page



Non-water point nobar003 facing east. (NWI, not a wetland)



Non-water point nobar003 facing west. (NWI, not a wetland)

Photo Sheet 1 of 1



Non-water point NOAUZ010

Project/Site: Atlantic Coast Pipeline	City/County: Augusta County	Sampling Date: 4/21/2016				
Applicant/Owner: Dominion		State: VA Sampling Point: noauf002				
	Section, Township, Range: No PLSS in this area					
Landform (hillslope, terrace, etc.): Terrace						
Subregion (LRR or MLRA): S L						
Soil Map Unit Name: Craigsville fine sandy loam		NWI classification: None				
Are climatic / hydrologic conditions on the site typica	al for this time of year? Yes No	(If no, explain in Remarks.)				
Are Vegetation, Soil, or Hydrology _						
Are Vegetation, Soil, or Hydrology _						
SUMMARY OF FINDINGS – Attach site						
		, , ,				
	No V Is the Sampled Area within a Wetland?					
	No v within a Wetland?	Yes No				
Remarks:	140					
look more like a PFO						
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of one is required; ch		Surface Soil Cracks (B6)				
Surface Water (A1)	True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)				
	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)				
· ·		Moss Trim Lines (B16)				
	Presence of Reduced Iron (C4)	Dry-Season Water Table (C2) Crayfish Burrows (C8)				
Sediment Deposits (B2) Drift Deposits (B3)	<ul><li>Recent Iron Reduction in Tilled Soils (C6)</li><li>Thin Muck Surface (C7)</li></ul>	Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	Other (Explain in Remarks)	Stunted or Stressed Plants (D1)				
	Iron Deposits (B5)					
Inundation Visible on Aerial Imagery (B7)		<ul><li>Geomorphic Position (D2)</li><li>Shallow Aquitard (D3)</li></ul>				
Water-Stained Leaves (B9)		Microtopographic Relief (D4)				
Aquatic Fauna (B13)		FAC-Neutral Test (D5)				
Field Observations:						
Surface Water Present? Yes No	Depth (inches):					
Water Table Present? Yes No _	Depth (inches):					
Saturation Present? Yes No Ves No	Depth (inches): Wetland H	lydrology Present? Yes No				
Describe Recorded Data (stream gauge, monitorin	g well, aerial photos, previous inspections), if ava	ilable:				
Barrada						
Remarks:						

/EGETATION (Four Strata) – Use scientific na	ames of	plants.		Sampling Point: noauf002
	Absolute	Dominant Ir	ndicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:)  1. Prunus serotina			Status FACU	Number of Dominant Species That Are OBL, FACW, or FAC:1 (A)
2. Liriodendron tulipifera	25	Yes	FACU	That Are OBE, I ACW, OIT AC(A)
3. Acer saccharum	10	No	FACU	Total Number of Dominant
	10	No	FAC	Species Across All Strata: (B)
4. Populus deltoides	5		FACU	Percent of Dominant Species
5. Carya ovata		No	FACU	That Are OBL, FACW, or FAC: 14.28571428 (A/B)
6				Prevalence Index worksheet:
1	80			Total % Cover of: Multiply by:
40		= Total Cover	r 16	OBL species 0 x 1 = 0
50% of total cover: 40	20% of	total cover:		FACW species 0 x 2 = 0
Sapling/Shrub Stratum (Plot size:)	40		E4011	400
1. Rosa multiflora	40	Yes	FACU	FAC species x 3 =
2. Lonicera morrowii	30	Yes	FACU	FACU species x 4 =
3. Lindera benzoin	10	No	FAC	UPL species x 5 =
4				Column Totals:(A)(B)
5				Prevalence Index = B/A = 3.91
6				
7		<u> </u>		Hydrophytic Vegetation Indicators:
8.				1 - Rapid Test for Hydrophytic Vegetation
9.				2 - Dominance Test is >50%
5	80	Tatal Cause		3 - Prevalence Index is ≤3.0 <sup>1</sup>
50% of total cover: 40		= Total Cover total cover:	16	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
00 /0 01 total cover:	20% 01	total cover:		data in Remarks or on a separate sheet)
Herb Stratum (Plot size:)	20		LIDI	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. Carex brevior		Yes	UPL	
2. Lonicera japonica	20	Yes	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3. Podophyllum peltatum	15	Yes	FACU	be present, unless disturbed or problematic.
4. Viola hirsutula	10	No	FACU	Definitions of Four Vegetation Strata:
5. Rosa multiflora	5	No	FACU	Definitions of Four Vegetation Otrata.
6.				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
7				more in diameter at breast height (DBH), regardless of
0				height.
8				Sapling/Shrub - Woody plants, excluding vines, less
9		·		than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				<b>Herb</b> – All herbaceous (non-woody) plants, regardless
		= Total Cover		of size, and woody plants less than 3.28 ft tall.
50% of total cover: 35	20% of	total cover:	14	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 0 )				height.
1				
2.				
3.		·		
		·		
				Hydrophytic
5		·		Vegetation
0		= Total Cover	^	Present? Yes No
50% of total cover:0	20% of	total cover:	0	
Remarks: (Include photo numbers here or on a separate sl	heet.)			

Sampling Point: noauf002

SOIL

	cription: (Describe	ro me aehn				C. COMMIN	. are absence	. o	
Depth (inches)	Matrix Color (moist)	%	Color (moist)	K Feature:	s _Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Re	emarks
0-5	10YR 3/3	100	Color (molot)		1,00		SIL		mano
	· .	400						200/ Orough	
5-16	10YR 4/4	100					SIL	20% Gravel	
	· ·								
	<u> </u>						·		
					-				
								· <del></del>	
	- 1								
1	·	· <del></del>					2		
	Concentration, D=Dep	letion, RM=I	Reduced Matrix, MS	=Maskec	d Sand Gra	ains.		PL=Pore Lining, M=	
•	Indicators:								natic Hydric Soils <sup>3</sup> :
Histoso			Dark Surface					2 cm Muck (A10) <b>(I</b>	
Histic E	pipedon (A2)		Polyvalue Be	low Surfa	ce (S8) (N	ILRA 147,	148) (	Coast Prairie Redo	x (A16)
	listic (A3)		Thin Dark Su	rface (S9)	(MLRA 1	47, 148)		(MLRA 147, 148	3)
Hydrog	en Sulfide (A4)		Loamy Gleye	d Matrix (	F2)		F	Piedmont Floodpla	in Soils (F19)
	ed Layers (A5)		Depleted Mat					(MLRA 136, 147	<b>'</b> )
2 cm M	uck (A10) (LRR N)		Redox Dark S	Surface (F	<del>-</del> 6)		\	ery Shallow Dark	Surface (TF12)
Deplete	ed Below Dark Surfac	e (A11)	Depleted Dar	k Surface	(F7)		(	Other (Explain in R	temarks)
Thick D	ark Surface (A12)		Redox Depre	ssions (F	8)				
Sandy I	Mucky Mineral (S1) (L	RR N,	Iron-Mangane	ese Mass	es (F12) <b>(</b>	LRR N,			
	A 147, 148)		MLRA 130						
	Gleyed Matrix (S4)		Umbric Surfa	ce (F13) (	(MLRA 13	6, 122)	<sup>3</sup> Inc	dicators of hydroph	nytic vegetation and
	Redox (S5)		Piedmont Flo					etland hydrology m	
	d Matrix (S6)		Red Parent M					nless disturbed or p	
	Layer (if observed):		_		, <b>,</b>	<u> </u>	Í		
Type:	,								
	nches):						Hydric Soi	I Present? Yes	No 🗸
	icrics).						Tiyane oo	irresent: res	~
Remarks:									



Photo 1 Non-water data point noauf002 facing northwest



**Photo 2**Non-water data point noauf002 facing southwest

Project/Site: Atlantic Coast Pi	peline	City/0	County: Augusta County		Sampling Date: 4/21/2016		
Applicant/Owner: Dominion		,	•		Sampling Point: noauf001		
Investigator(s): SH, SA		Secti	on, Township, Range: No				
Landform (hillslope, terrace, e					Slone (%). 1		
Subregion (LRR or MLRA): S							
Soil Map Unit Name: Craigsvi							
				NWI classifica	ition: 140110		
Are climatic / hydrologic condi							
Are Vegetation, Soil	, or Hydrolog	y significantly distu	rbed? Are "Normal	Circumstances" pr	esent? Yes No		
Are Vegetation, Soil	, or Hydrolog	ynaturally problem	atic? (If needed, ex	xplain any answers	s in Remarks.)		
SUMMARY OF FINDIN	GS – Attach s	ite map showing san	npling point location	ns, transects,	important features, etc.		
Hydrophytic Vegetation Pres	eont? Voc	No <b>✓</b>					
Hydric Soil Present?		No ✓	Is the Sampled Area		🗸		
Wetland Hydrology Present?	Yes	No	within a Wetland?	Yes	_ No		
Remarks:		<u> </u>					
Area is an NWI polygon, does	,		, , , , , , , , , , , , , , , , , , , ,				
HYDROLOGY							
Wetland Hydrology Indicat	ors:			Secondary Indicat	ors (minimum of two required)		
Primary Indicators (minimum	of one is required;				Surface Soil Cracks (B6)		
Surface Water (A1)							
	<ul><li>High Water Table (A2)</li><li>Saturation (A3)</li><li>Hydrogen Sulfide Odor (C1)</li><li>Drainage I</li><li>Oxidized Rhizospheres on Living Roots (C3)</li><li>Moss Trim</li></ul>						
Saturation (A3)	Moss Trim Lin						
· · ·	Nater Marks (B1)       Presence of Reduced Iron (C4)       Dry-Season         Sediment Deposits (B2)       Recent Iron Reduction in Tilled Soils (C6)       Crayfish E						
Sediment Deposits (B2) Drift Deposits (B3)		Thin Muck Surface (	Crayfish Burro	ible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)		Other (Explain in Re		essed Plants (D1)			
<del>-</del> • , ,					Position (D2)		
					quitard (D3)		
Water-Stained Leaves (I	• • • •			phic Relief (D4)			
Aquatic Fauna (B13)	,			FAC-Neutral	Test (D5)		
Field Observations:							
Surface Water Present?	Yes No	Depth (inches):					
Water Table Present?		Depth (inches):					
Saturation Present?	Yes No	Depth (inches):	Wetland H	ydrology Present	? Yes No		
(includes capillary fringe)  Describe Recorded Data (str	eam gauge, monito	oring well, aerial photos, pre	evious inspections), if avail	lable:			
No hydrology indicators							
Remarks:							

/EGETATION (Four Strata) – Use scientific na	ames of	plants.		Sampling Point: noauf001
•		Dominant I		Dominance Test worksheet:
		Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC:0 (A)
2				Total Number of Dominant
3				Species Across All Strata: 2 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC:0 (A/B)
6				
7				Prevalence Index worksheet:
	0	= Total Cove	r	Total % Cover of: Multiply by:
50% of total cover:0	20% of	total cover:_	0	OBL species X I =
Sapling/Shrub Stratum (Plot size: 0				FACW species x z =
1				FAC species x 3 =
2				FACU species X 4 = 105
3				UPL species x 5 =
4				Column Totals: (A) 443 (B)
5				Prevalence Index = B/A = 4.23
6				Hydrophytic Vegetation Indicators:
7	_			1 - Rapid Test for Hydrophytic Vegetation
8				1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>
	0	= Total Cove	r	<del></del>
50% of total cover:0	20% of	total cover:_	0	4 - Morphological Adaptations¹ (Provide supporting
Herb Stratum (Plot size:)				data in Remarks or on a separate sheet)
1. Poa pratensis	80	Yes	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Brassica rapa	25	Yes	UPL	
3				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				_
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
7				more in diameter at breast height (DBH), regardless of height.
8				
9				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11.				Herb – All herbaceous (non-woody) plants, regardless
	105	= Total Cove		of size, and woody plants less than 3.28 ft tall.
50% of total cover: 52.5		total cover:_		
Woody Vine Stratum (Plot size:)				<b>Woody vine</b> – All woody vines greater than 3.28 ft in height.
1				- reigin
2				
3				
4				Livedraphytic
5				Hydrophytic Vegetation
	0	= Total Cove	r	Present? Yes No
50% of total cover:0	20% of	total cover:_	0	
Remarks: (Include photo numbers here or on a separate sl	heet.)			

Sampling Point: noauf001

Profile Desc	cription: (Describe t	o the dep	th needed to docur	nent the i	ndicator	or confirm	the absence	e of indicators.)
Depth	Matrix			x Feature:	s			
(inches) 0-4	Color (moist) 10YR 3/4	<u>%</u> 100	Color (moist)	<u> </u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture SICL	Remarks
4-14	5YR 3/3	90	5YR 4/6	10	С	М	SIC	-
						· <del></del>		
								· ·
								_
	oncentration, D=Depl	etion, RM:	=Reduced Matrix, M	S=Masked	Sand Gr	ains.		PL=Pore Lining, M=Matrix.
Hydric Soil								cators for Problematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface	. ,				2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be				148)	Coast Prairie Redox (A16)
	istic (A3)		Thin Dark Su			147, 148)		(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye		F2)		_	Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Ma	. ,				(MLRA 136, 147)
	uck (A10) (LRR N)		Redox Dark					Very Shallow Dark Surface (TF12)
	d Below Dark Surface	(A11)	Depleted Da		. ,		_	Other (Explain in Remarks)
	ark Surface (A12)	DD N	Redox Depre			LDDN		
	Mucky Mineral (S1) <b>(L</b> <b>A 147, 148)</b>	RK N,	Iron-Mangan		es (F12) (	LKK N,		
	Gleyed Matrix (S4)		MLRA 13 Umbric Surfa	•	MIDA 12	e 122\	31,	ndicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					vetland hydrology must be present,
-	d Matrix (S6)		Red Parent I					inless disturbed or problematic.
	Layer (if observed):		Red Falenti	viateriai (F	ZI) (WLK	A 121, 141	1	inless disturbed of problematic.
Type: Co	ompacted							
	ches): 14		<u> </u>				Hydric Sc	oil Present? Yes No
Remarks:							1	



Photo 1 Non-water data point noauf001 facing southeast



Photo 2 Non-water data point noauf001 facing northwest



Non-water point NOAUA409 facing north

# WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Atlantic Coast Pipeline	City/0	City/County: Augusta County Sampling Date: 3/					
Applicant/Owner: DOMINION		State: VA Samp					
	Secti	on, Township, Range: No PLS	S in this area				
Landform (hillslope, terrace, etc.): Slight Slope			none Slope (%):2				
Subregion (LRR or MLRA): S		Long: -79.3932	4752 Datum: WGS 1984				
Soil Map Unit Name: Fluvaquents, nearly level			NWI classification: None				
Are climatic / hydrologic conditions on the site							
Are Vegetation, Soil, or Hydrole							
Are Vegetation, Soil, or Hydrole							
SUMMARY OF FINDINGS – Attach							
	No	Is the Sampled Area					
	S No_ 🗸	within a Wetland?	Yes No				
Remarks:	S NO						
Non-water point in NWI polygon.							
HYDROLOGY							
Wetland Hydrology Indicators:		Sec	ondary Indicators (minimum of two required				
Primary Indicators (minimum of one is require	ed; 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 Oc	dor (C1)	Drainage Patterns (B10)				
Saturation (A3)			Moss Trim Lines (B16)				
Water Marks (B1)	Presence of Reduce		Dry-Season Water Table (C2)				
Sediment Deposits (B2)	Recent Iron Reduction		Crayfish Burrows (C8)				
Drift Deposits (B3)	Thin Muck Surface (		Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	Other (Explain in Re		Stunted or Stressed Plants (D1)				
Iron Deposits (B5)			Geomorphic Position (D2)				
<ul><li>Inundation Visible on Aerial Imagery (B7)</li><li>Water-Stained Leaves (B9)</li></ul>			Shallow Aquitard (D3) Microtopographic Relief (D4)				
Aquatic Fauna (B13)			FAC-Neutral Test (D5)				
Field Observations:		<u> </u>	17.0 Notical Test (20)				
	o Depth (inches):						
	o Depth (inches):						
	o Depth (inches):		ology Present? Yes No_ 🗸				
(includes capillary fringe)		-					
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, pre	evious inspections), if available	<b>9</b> :				
Remarks:							
No wetland hydrology indicators present							

EGETATION (Four Strata) – Use scientific na	ames of	plants.		Sampling Point: noauc052
200	Absolute			Dominance Test worksheet:
Tree Stratum (Plot size:30) 1		Species?	<u>Status</u>	Number of Dominant Species That Are OBL, FACW, or FAC:0 (A)
2				
3				Total Number of Dominant Species Across All Strata:  2 (B)
4				Operico / toroso / tir ctrata.
5				Percent of Dominant Species That Are OBL FACW or FAC:  0 (A/B)
6				That Are OBL, FACW, or FAC: (A/B)
7.				Prevalence Index worksheet:
, <u></u>	0	= Total Cove		Total % Cover of: Multiply by:
50% of total cover:0		total cover:_	0	OBL species0 x 1 =0
Sapling/Shrub Stratum (Plot size: 15 )				FACW species $0 \times 2 = 0$
1				FAC species0 x 3 =0
2				FACU species90
3				UPL species0 x 5 =0
4				Column Totals: 90 (A) 360 (B)
4 5.		· · · · · · · · · · · · · · · · · · ·		
				Prevalence Index = B/A =4
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9	0			3 - Prevalence Index is ≤3.0 <sup>1</sup>
50% of total cover: 0		= Total Cove total cover:	r O	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
5070 01 total 00vc1:	20% 01	total cover		data in Remarks or on a separate sheet)
Herb Stratum (Plot size:)  1 Poa pratensis	70	Yes	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Dactylis glomerata	20	Yes	FACU	
			1 700	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3				be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6				more in diameter at breast height (DBH), regardless of
7				height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				<b>Herb</b> – All herbaceous (non-woody) plants, regardless
		= Total Cove		of size, and woody plants less than 3.28 ft tall.
50% of total cover: 45	20% of	total cover:_	18	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size:)				height.
1				
2				
3				
4				Hydrophytic
5				Vegetation
		= Total Cove	^	Present? Yes No
50% of total cover:0	20% of	total cover:_	0	
Remarks: (Include photo numbers here or on a separate s	neet.)			

Sampling Point: noauc052

Profile Desc	cription: (Describe to	the depth r	needed to docum	ent the indi	cator or confirn	n the ab	osence of indicators.)
Depth	Matrix			Features			
(inches) 0-18	Color (moist) 10 YR 3/4	100	Color (moist)	<u> % T</u>	Type <sup>1</sup> Loc <sup>2</sup>		tture Remarks SL
	<del></del>						
¹Type: C=C	oncentration, D=Deple	etion, RM=Re	duced Matrix, MS	=Masked Sa	and Grains.	<sup>2</sup> Loca	tion: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol	I (A1)	-	Dark Surface	(S7)			2 cm Muck (A10) (MLRA 147)
Histic E	pipedon (A2)		Polyvalue Bel	ow Surface	(S8) <b>(MLRA 147</b> ,	, 148)	Coast Prairie Redox (A16)
Black H	istic (A3)	-			ILRA 147, 148)		(MLRA 147, 148)
	en Sulfide (A4)	-	Loamy Gleye	, ,	)		Piedmont Floodplain Soils (F19)
	d Layers (A5)	-	Depleted Mat				(MLRA 136, 147)
	uck (A10) (LRR N)	(444)	Redox Dark S		<del>-</del> \		Very Shallow Dark Surface (TF12)
	d Below Dark Surface	(A11)	Depleted Darl		7)		Other (Explain in Remarks)
	ark Surface (A12) Mucky Mineral (S1) <b>(LF</b>	DD N	Redox Depres		(F12) <b>(LRR N,</b>		
	A 147, 148)	λιλ I <b>V</b> ,	MLRA 136		(F12) (LKK N,		
	Gleyed Matrix (S4)			•	.RA 136, 122)		<sup>3</sup> Indicators of hydrophytic vegetation and
	Redox (S5)	-			s (F19) <b>(MLRA 1</b> 4	48)	wetland hydrology must be present,
-	d Matrix (S6)	•			(MLRA 127, 14		unless disturbed or problematic.
	Layer (if observed):			, ,		İ	·
Type:							
	ches):		_			Hvdi	ric Soil Present? Yes No
Remarks:			=			, .	
No hydric soi	l present						
ito ilyano oo	, procent						



Photo 1 Non-water data point NOAUC052 facing east



Photo 2 Non-water data point NOAUC052 facing west

# WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Atlantic Coast Pipeline		City/County: Augusta County Sampling Date: 4/27/20					
Applicant/Owner: Dominion		State: VA Sampling Point: noaue0					
		Secti	ion, Township, Range: No	PLSS in this area	a		
Landform (hillslope, terrace, etc.): Flat					Slope (%):0		
Subregion (LRR or MLRA): S		38.21573667	Long: -79.0	36400486	Datum: WGS 1984		
Soil Map Unit Name: Udorthents, sandy	y			NWI classific	cation: None		
Are climatic / hydrologic conditions on the							
Are Vegetation, Soil, or							
Are Vegetation, Soil, or							
SUMMARY OF FINDINGS – A							
					,portant routeroe, etc.		
Hydrophytic Vegetation Present?	Yes		Is the Sampled Area				
Hydric Soil Present? Wetland Hydrology Present?	Yes	No	within a Wetland?	Yes	No		
Remarks:	res	NO					
HYDROLOGY							
Wetland Hydrology Indicators:				Secondary Indica	ators (minimum of two required)		
Primary Indicators (minimum of one is	required; chec	k all that apply)		Surface Soil			
Surface Water (A1)		True Aquatic Plants	(B14)	Sparsely Vegetated Concave Surface (B8)			
High Water Table (A2)		Hydrogen Sulfide Od			atterns (B10)		
Saturation (A3)	_	Oxidized Rhizosphe	res on Living Roots (C3)	Moss Trim L	ines (B16)		
Water Marks (B1)		Presence of Reduce	d Iron (C4)	Dry-Season	Water Table (C2)		
Sediment Deposits (B2)		Recent Iron Reduction	on in Tilled Soils (C6)	Crayfish Bur	rrows (C8)		
Drift Deposits (B3)		Thin Muck Surface (			isible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)		Other (Explain in Re	marks)	· <del></del>	Stressed Plants (D1)		
Iron Deposits (B5)	om ( /DZ)				Position (D2)		
Inundation Visible on Aerial Image Water-Stained Leaves (B9)	эгу (Б7)			Shallow Aqu	aphic Relief (D4)		
Aquatic Fauna (B13)				FAC-Neutra			
Field Observations:			1	1710 1100110	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	No 🗸	Depth (inches):					
		Depth (inches):					
		Depth (inches):		lydrology Prese	nt? Yes No		
(includes capillary fringe)							
Describe Recorded Data (stream gauge	ge, monitoring v	weii, aeriai pnotos, pro	evious inspections), if ava	illable:			
Remarks:							

/EGETATION (Four Strata) – Use scientific na	ames of	plants.		Sampling Point: noaue071
	Absolute	Dominant I	ndicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:)  1. Acer saccharum	% Cover 10	Species? Yes	Status FACU	Number of Dominant Species That Are OBL, FACW, or FAC:1 (A)
2. Prunus serotina	10	Yes	FACU	That Are OBL, FACW, OF FAC(A)
3. Platanus occidentalis	10	Yes	FACW	Total Number of Dominant
	5	No	FACU	Species Across All Strata: (B)
4. Carya ovata				Percent of Dominant Species
5 6		· <del></del>		That Are OBL, FACW, or FAC:
o				Prevalence Index worksheet:
	35	= Total Cove		Total % Cover of: Multiply by:
50% of total cover:17.5		total cover:_	7	OBL species0 x 1 =0
Sapling/Shrub Stratum (Plot size: 15 )	2070 01	total 00 vol		FACW species10
1 Lonicera morrowii	25	Yes	FACU	FAC species 0 x 3 = 0
2. Rosa multiflora	20	Yes	FACU	FACU species 115 x 4 = 460
3. Berberis thunbergii	10	No	FACU	UPL species $0 \times 5 = 0$
	10	No No	1700	125 480
4. Elaeagnus umbellata 5.				
5 6				Prevalence Index = B/A =3.84
				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8		· <del></del>		2 - Dominance Test is >50%
9	65			3 - Prevalence Index is ≤3.0 <sup>1</sup>
32.5		= Total Cove	r 13	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover: 32.5	20% of	total cover:_		data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5	20		E4011	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. Alliaria petiolata	20	Yes	FACU	
2. Allium cernuum	10	Yes	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3. Rosa multiflora	5	No	FACU	be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				
6				<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
7				height.
8				
9.				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
10.				m) tall.
11.				
···	35	Tatal Caus		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover:17.5		= Total Cove total cover:_	_	of size, and woody plants less than 3.20 it tall.
Woody Vine Stratum (Plot size: 30 )	2070 01	total cover		Woody vine – All woody vines greater than 3.28 ft in
(1.1000) 1.1110 0.11010111 (1.10101201				height.
1		· ——		
2				
3				
4				Hydrophytic
5				Vegetation
	0	= Total Cove	r	Present? Yes No
50% of total cover:0	20% of	total cover:_	0	
Remarks: (Include photo numbers here or on a separate sh	neet.)			
` '	,			

Sampling Point: noaue071

Profile Des	cription: (Describe t	o the depth				or confirm	n the abse	ence of indicators.)
Depth	Matrix		Redo	x Features	S1		<b>-</b> .	<b>5</b> .
(inches)	Color (moist)	<u>%</u> _	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Textur	e Remarks
0-16	7.5YR 4/2	100					SL	
					-			
						· ——		<del></del>
1Type: C-C	oncentration, D=Deple	etion RM-R	educed Matrix MS	S-Maskad	I Sand Gr	aine	<sup>2</sup> Location	n: PL=Pore Lining, M=Matrix.
Hydric Soil		Suon, Kivi–K	educed Matrix, Mc	J-IVIASKEU	Janu Or	airis.		ndicators for Problematic Hydric Soils <sup>3</sup> :
-			Dork Surface	(87)				-
Histoso			Dark Surface	. ,	00 (80) /	NI DA 447	149\	2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be				140) _	Coast Prairie Redox (A16)
	istic (A3)		Thin Dark Su	, ,	•	147, 148)		(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye		r <i>2)</i>		_	Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Mat		-0)			(MLRA 136, 147)
	uck (A10) <b>(LRR N)</b> d Below Dark Surface	(111)	Redox Dark S Depleted Dar				_	<ul><li>Very Shallow Dark Surface (TF12)</li><li>Other (Explain in Remarks)</li></ul>
	аrk Surface (A12)	(A11)	Redox Depre				_	Other (Explain in Remarks)
	Mucky Mineral (S1) <b>(L</b> l	DD N	Iron-Mangan			I DD N		
	Mucky Milleral (31) (L A 147, 148)	KK N,	MLRA 13		es (F12) <b>(</b>	LKK N,		
	Gleyed Matrix (S4)		Umbric Surfa	•	MIDA 12	6 122\		<sup>3</sup> Indicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo				10)	wetland hydrology must be present,
	d Matrix (S6)		Red Parent N					unless disturbed or problematic.
	Layer (if observed):		Red Falentin	nateriai (i	ZI) (WILK	A 121, 141	') 	unless disturbed of problematic.
	Layer (ii observeu).							
Type:			<del>_</del>				1	· . · . · . · . · . · . · . · . ·
	ches):		_				Hydric	Soil Present? Yes No
Remarks:								



**Photo 1**Non-water data point noaue071 facing southwest



**Photo 2**Non-water data point noaue071 facing northeast



Non-water data point NOAUE070 facing east



Non-water data point NOAUE070 facing west

# WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Atlantic Coast Pipeline	City/County: Augusta County Sampling Date: 3/9/						
Applicant/Owner: DOMINION		State: VA Sampling Po					
	Section, Towns						
Landform (hillslope, terrace, etc.): Floodplain							
Subregion (LRR or MLRA): S							
Soil Map Unit Name: Craigsville fine sandy loam		NWI classi	ification: None				
Are climatic / hydrologic conditions on the site typic							
Are Vegetation, Soil, or Hydrology _	significantly disturbed?	Are "Normal Circumstances	s" present? Yes No				
Are Vegetation, Soil, or Hydrology _							
SUMMARY OF FINDINGS – Attach site							
Hydrophytic Vegetation Present?	✓ No						
	No. 4	ampled Area	🗸				
	No within a	Wetland? Yes	No				
Remarks:							
HYDROLOGY							
Wetland Hydrology Indicators:		Secondary Indi	icators (minimum of two required)				
Primary Indicators (minimum of one is required; c	neck all that apply)	Surface Soil Cracks (B6)					
Surface Water (A1)	True Aquatic Plants (B14)	Sparsely V	Sparsely Vegetated Concave Surface (B8)				
High Water Table (A2)	Hydrogen Sulfide Odor (C1)	-	Patterns (B10)				
Saturation (A3)	Oxidized Rhizospheres on Livir	-	Lines (B16)				
	Presence of Reduced Iron (C4)		on Water Table (C2)				
Sediment Deposits (B2)	Recent Iron Reduction in Tilled		surrows (C8)				
Drift Deposits (B3)	Thin Muck Surface (C7)		Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	Other (Explain in Remarks)		Stressed Plants (D1)				
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7)			nic Position (D2) quitard (D3)				
Water-Stained Leaves (B9)			graphic Relief (D4)				
Aquatic Fauna (B13)		FAC-Neuti					
Field Observations:		<u></u>					
	Depth (inches):						
	Depth (inches):						
	Depth (inches):	Wetland Hydrology Pres	sent? Yes No ✔				
(includes capillary fringe)		, ,					
Describe Recorded Data (stream gauge, monitori	ng well, aerial photos, previous insp	ections), if available:					
Remarks:							
No wetland hydrology indicators present							
, , ,							

/EGETATION (Four Strata) – Use scientific na	ames of	plants.		Sampling Point: noauc050
••	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:	% Cover 30	Species? Yes	Status FACW	Number of Dominant Species That Are OBL, FACW, or FAC:4 (A)
2 Quercus rubra	20	Yes	FACU	(1)
3. Acer rubrum	20	Yes	FAC	Total Number of Dominant Species Agrees All Strate: 6 (B)
J				Species Across All Strata: (B)
4				Percent of Dominant Species
0				That Are OBL, FACW, or FAC: 66.66666666 (A/B)
b		· <del></del>		Prevalence Index worksheet:
1	70			Total % Cover of: Multiply by:
50% of total cover: 35		= Total Cover:	er 14	OBL species 0 x 1 = 0
15	20% 01	iolai cover.		FACW species 45 x 2 = 90
Sapling/Shrub Stratum (Plot size:)  1 Vaccinium corymbosum	15	Yes	FACW	FAC species 50 x 3 = 150
2 Rosa multiflora	10	Yes	FACU	FACU species 30 x 4 = 120
		·		UPL species 0 x 5 = 0
3				Column Totals: 125 (A) 360 (B)
4		· <del></del>		(2)
5		·		Prevalence Index = B/A =2.88
6		· ——		Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9	25			3 - Prevalence Index is ≤3.0 <sup>1</sup>
12.5		= Total Cove	er 5	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover:	20% of	total cover:		data in Remarks or on a separate sheet)
Herb Stratum (Plot size:5 )  1 Lonicera japonica	30	Voo	<b>E</b> AC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
"-		Yes	FAC_	
2		·		<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3				be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6				more in diameter at breast height (DBH), regardless of
7				height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless
4-		= Total Cove	•	of size, and woody plants less than 3.28 ft tall.
50% of total cover:15	20% of	total cover:	6	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size:)				height.
1				
2				
3				
4				Hydrophytic
5				Vegetation
		= Total Cove	^	Present? Yes No
50% of total cover:0	20% of	total cover:	0	
Remarks: (Include photo numbers here or on a separate sl	neet.)			

Sampling Point: noauc050

Profile Desc	cription: (Describe to	the depth r	needed to docum	nent the ind	licator or confirn	n the ab	sence of indicators.)
Depth	Matrix			r Features			
(inches) 0-18	Color (moist) 10 YR 3/4	100	Color (moist)	%	Type <sup>1</sup> Loc <sup>2</sup>		ture Remarks S
							<del></del>
	<del></del>						
¹Type: C=C	oncentration, D=Deple	etion, RM=Re	duced Matrix, MS	=Masked S	and Grains.	<sup>2</sup> Loca	tion: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol	I (A1)	-	Dark Surface	(S7)			2 cm Muck (A10) (MLRA 147)
Histic E	pipedon (A2)	-	Polyvalue Be	low Surface	(S8) (MLRA 147,	, 148)	Coast Prairie Redox (A16)
Black H	istic (A3)	-			MLRA 147, 148)		(MLRA 147, 148)
	en Sulfide (A4)	-	Loamy Gleye	,	)		Piedmont Floodplain Soils (F19)
	d Layers (A5)	-	Depleted Mat				(MLRA 136, 147)
	uck (A10) (LRR N)	-	Redox Dark S				Very Shallow Dark Surface (TF12)
	d Below Dark Surface	(A11) _	Depleted Dar		· 7)		Other (Explain in Remarks)
	ark Surface (A12) Mucky Mineral (S1) <b>(LF</b>	- 	Redox Depre		(F12) <b>(LRR N,</b>		
	A 147, 148)	\I\ I	MLRA 136		(F12) <b>(LKK N,</b>		
	Gleyed Matrix (S4)			•	LRA 136, 122)		<sup>3</sup> Indicators of hydrophytic vegetation and
	Redox (S5)	-			s (F19) <b>(MLRA 1</b> 4	18)	wetland hydrology must be present,
-	d Matrix (S6)	-			) (MLRA 127, 147		unless disturbed or problematic.
	Layer (if observed):			•	<u> </u>		· ·
Type:							
	ches):		_			Hvdr	ric Soil Present? Yes No
Remarks:	,		_				
No hydric soi	l present						
ito ilyano oo	, procent						