Project/Site: Atlantic Coast Pipeline	City/County: Randolph	_ Sampling Date: 6/27/2016				
Applicant/Owner: Dominion		Sampling Point: wrae267_u				
	Section, Township, Ran					
Landform (hillslope, terrace, etc.): road	Local relief (concave, conv					
Subregion (LRR or MLRA): N			Datum: WGS 1984			
Soil Map Unit Name: Gilpin-Dekalb stony complex	x, moist, 35 to 70 percent slopes	NWI classif	ication: UPL			
Are climatic / hydrologic conditions on the site typi	cal for this time of year? Yes No	(If no, explain in I	Remarks.)			
Are Vegetation, Soil, or Hydrology	significantly disturbed? Are "I	Normal Circumstances"	present? Yes No			
Are Vegetation, Soil, or Hydrology						
SUMMARY OF FINDINGS – Attach si						
Hydrophytic Vegetation Present? Yes	No Is the Sampled					
	No. 4		No <u>✓</u>			
	No within a Wetlan	d? fes	NO			
HYDROLOGY	_	_				
Wetland Hydrology Indicators:		Secondary Indic	cators (minimum of two required)			
Primary Indicators (minimum of one is required;	check all that apply)	Surface Soi	l Cracks (B6)			
Surface Water (A1)	True Aquatic Plants (B14)	Sparsely Ve	egetated Concave Surface (B8)			
High Water Table (A2)	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)				
Saturation (A3)	Oxidized Rhizospheres on Living Roots					
Water Marks (B1)	Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)				
Sediment Deposits (B2)	Recent Iron Reduction in Tilled Soils (C					
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)		Geomorphic Shallow Aq	c Position (D2)			
Water-Stained Leaves (B9)			raphic Relief (D4)			
Aquatic Fauna (B13)		FAC-Neutra				
Field Observations:		<u> </u>				
	Depth (inches):					
	Depth (inches):					
		tland Hydrology Prese	ent? Yes No			
Describe Recorded Data (stream gauge, monitor	ring well, aerial photos, previous inspections)), if available:				
Remarks:						
No hydrology present						

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

Sampling Point: wrae267_u

		Dominant I		Dominance Test worksheet:		
	% Cover	Species?	Status	Number of Dominant Species	0	
1. none				That Are OBL, FACW, or FAC:	0	(A)
2				Total Number of Dominant		
3				Species Across All Strata:	0	(B)
4						()
				Percent of Dominant Species	0	
5				That Are OBL, FACW, or FAC:		(A/B)
6				Prevalence Index worksheet:		
7	0			Total % Cover of:	Multiply by:	
	·	= Total Cove				
50% of total cover:0	20% of	total cover:_	0	OBL species x		
Sapling/Shrub Stratum (Plot size: 15)				FACW species x 2	2 =	_
1. none	0			FAC species x 3	3 =	_
2				FACU species x 4	4 =	
				UPL species x :		
3						
4				Column Totals: (A)	·	_ (D)
5				Prevalence Index = B/A =		
6						_
7				Hydrophytic Vegetation Indicat		
				1 - Rapid Test for Hydrophyt	ic Vegetation	
8				2 - Dominance Test is >50%	ı	
9	0			3 - Prevalence Index is ≤3.0 ¹	I	
		= Total Cove		4 - Morphological Adaptation		porting
50% of total cover:0	20% of	total cover:_	0	data in Remarks or on a s		porting
Herb Stratum (Plot size:)					•	
1. none	0			Problematic Hydrophytic Veg	jetation' (Explai	n)
2				¹ Indicators of hydric soil and wetl		nust
3				be present, unless disturbed or p	roblematic.	
4				Definitions of Four Vegetation	Strata:	
5						
6				Tree – Woody plants, excluding v		
7				more in diameter at breast height height.	. (DBH), regardi	ess oi
				noight.		
8				Sapling/Shrub – Woody plants,		
9				than 3 in. DBH and greater than o	or equal to 3.28	ft (1
10				m) tall.		
11				Herb - All herbaceous (non-wood	dy) plants, rega	rdless
	0	= Total Cove	r	of size, and woody plants less that		
50% of total cover:0	20% of	total cover:_	0			
Woody Vine Stratum (Plot size: 30)				Woody vine – All woody vines grapheight.	reater than 3.28	ft in
1. none	0			neight.		
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		<u> </u>				
No veg due to road						

Sampling Point: wrae267_u

Profile Desc	ription: (Describe to	o the depth	needed to docun	nent the in	dicator o	or confirm	the absenc	e of indicate	ors.)		
Depth	Matrix		Redo	k Features							
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remark	S	
							1	_			_
			_								
							-				
							-				
							-	_			
	oncentration, D=Deple	etion, RM=Re	educed Matrix, MS	S=Masked	Sand Gra	ins.		PL=Pore Lin			
Hydric Soil I	ndicators:						Indi	cators for P	roblematic	Hydric Soils ³	3:
Histosol	(A1)		Dark Surface	(S7)				2 cm Muck ((A10) (MLR	A 147)	
	pipedon (A2)		Polyvalue Be		e (S8) (M	LRA 147.	· · · · · · · · · · · · · · · · · · ·	Coast Prairie	. , .	•	
Black Hi	. , ,		Thin Dark Su				-, <u>—</u>	(MLRA 14	•	-,	
	n Sulfide (A4)		Loamy Gleye			, -,		Piedmont FI		ils (F19)	
	Layers (A5)		Depleted Mat		_,		_	(MLRA 1	•	(*)	
	ck (A10) (LRR N)		Redox Dark S		3)			Very Shallov		ce (TF12)	
	Below Dark Surface	(A11)	Depleted Dar					Other (Expla			
	ark Surface (A12)	(****)	Redox Depre				_	(<u></u>		,	
	lucky Mineral (S1) (L l	RR N.	Iron-Mangan			RR N.					
	147, 148)	,	MLRA 13		· (· · - / (-	,					
	leyed Matrix (S4)		Umbric Surfa		/II RA 13	6. 122)	³ Ir	ndicators of h	vdrophytic v	egetation and	4
	edox (S5)		Piedmont Flo					vetland hydro		-	1
	Matrix (S6)		Red Parent N					ınless disturt			
	ayer (if observed):		rear arenen	iatoriai (i z	, (1 121, 171	,	iiiiooo diotaik	ou or proble	matio.	
	ayer (ii observed).										
Type:			_								
Depth (ind	ches):		_				Hydric So	il Present?	Yes	No	_
Remarks:											
No soil pit due	to gravel road										



Upland data point wrae267_u facing west



Upland data point wrae267_u facing east

Project/Site: Atlantic Coast Pipeline		City/C	County: Randolph County	/	Sampling Date: 7/1/2016	
Applicant/Owner: Dominion			State: WV	Sampling Point: wrae275e_w		
Investigator(s): CG, SA Section, Township, Range: No PLSS in this area						
Landform (hillslope, terrace, etc.): ro					Slope (%): <u>3</u>	
Subregion (LRR or MLRA): N		38.58732926	Long: -80.	18102077	Datum: WGS 1984	
Soil Map Unit Name: Buchanan and	Ernest stony soil:	s, 15 to 35 percent slop	pes	NWI classific	cation: PEM	
Are climatic / hydrologic conditions or	n the site typical f	for this time of year? Y	′es No	(If no, explain in F	Remarks.)	
Are Vegetation, Soil,	or Hydrology	significantly distur	bed? Are "Norma	I Circumstances"	present? Yes No	
Are Vegetation, Soil,						
SUMMARY OF FINDINGS -						
Hydrophytic Vegetation Present?	Yes 🗸	No				
Hydric Soil Present?	Yes 🔽	No	Is the Sampled Area	V V	No	
Wetland Hydrology Present?		No	within a Wetland?	res	NO	
roadbed, highly disturbed						
HYDROLOGY						
Wetland Hydrology Indicators:				Secondary Indica	ators (minimum of two required)	
Primary Indicators (minimum of one	is required; chec	ck all that apply)		Surface Soil	Cracks (B6)	
Surface Water (A1)		True Aquatic Plants (getated 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 Reduction		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)	
Algar Mat of Crust (B4) Iron Deposits (B5)		Other (Explain in Nei	ilaiks)		Position (D2)	
Inundation Visible on Aerial Image	agery (B7)			Shallow Aqu		
Water-Stained Leaves (B9)					aphic Relief (D4)	
Aquatic Fauna (B13)				✓ FAC-Neutra		
Field Observations:						
Surface Water Present? Yes	No	_ Depth (inches):				
Water Table Present? Yes	No	_ Depth (inches):	0			
		_ Depth (inches):	0 Wetland I	Hydrology Prese	nt? Yes <u> </u>	
(includes capillary fringe) Describe Recorded Data (stream ga	augo monitoring	well parial photos pro	vious inspections) if ava	vilabla:		
Describe Necorded Data (Stream ga	auge, monitoring	well, aeriai priotos, pre	evious irispections), ii ava	mable.		
Remarks:						

Sampling F	Point: wrae275e_w
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00	Absolute	Dominant In		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: 30)	% Cover 0	Species?	Status	Number of Dominant Species
1. none				That Are OBL, FACW, or FAC:2 (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: 100 (A/B)
6				
7				Prevalence Index worksheet:
	0	= Total Cover		Total % Cover of: Multiply by:
50% of total cover:0	20% of	total cover:	0	OBL species x 1 = 85
Sapling/Shrub Stratum (Plot size: 15				FACW species x 2 =60
1. none	0			FAC species0 x 3 =0
2				FACU species0 x 4 =0
3				UPL species0 x 5 =0
4.				Column Totals:115
·				
5				Prevalence Index = B/A =1.26
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9				✓ 3 - Prevalence Index is ≤3.0 ¹
0		= Total Cover	0	4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover:0	20% of	total cover:		data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5	70		0.01	Problematic Hydrophytic Vegetation ¹ (Explain)
1. Scirpus atrovirens	70	Yes	OBL	
2. Juncus effusus	30	Yes	FACW	¹ Indicators of hydric soil and wetland hydrology must
3. Carex prasina	15	No	OBL	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				
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.				
	115	= Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 57.5		total cover:		
Woody Vine Stratum (Plot size: 30)				Woody vine – All woody vines greater than 3.28 ft in
1. none	0			height.
3				
4				Hydrophytic
5				Vegetation Present? Yes No
50% of total cover: 0		= Total Cover	0	1163 <u>163</u> 163
0070 01 total 00701.		total cover:		
Remarks: (Include photo numbers here or on a separate s	heet.)			
				I

Sampling Point: wrae275e_w

Profile Desc	ription: (Describe t	o the depth				or confirm	the absend	e of indica	tors.)		
Depth	Matrix		Redo	x Features	S1	. 2	_		_		
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>		Remar	ks	
							-				
							-	_			
								_			
¹ Type: C=Co	oncentration, D=Depl	etion, RM=Re	educed Matrix, MS	S=Masked	Sand Gra	ains.	² Location:	PL=Pore Lir	ning, M=Mat	rix.	
Hydric Soil I							Ind	cators for F	Problematic	Hydric So	oils³:
Histosol			Dark Surface	(S7)					(A10) (MLR	-	
	oipedon (A2)		Polyvalue Be		ce (S8) (N	LRA 147	148)	Coast Prair			
Black His			Tolyvalde Be					(MLRA 1)	
	n Sulfide (A4)		Loamy Gleye	, ,	•	, 1-0)		Piedmont F		oils (F10)	
	Layers (A5)		Depleted Ma		1 2)		_	(MLRA 1)ii3 (1 13 <i>)</i>	
	ck (A10) (LRR N)		Redox Dark		·c)				w Dark Surf	000 (TE12)	
	Below Dark Surface	(111)					_	Other (Expl			
		(A11)	Depleted Dar					Other (Expi	alli ili Kellia	iks)	
	ark Surface (A12)	DD N	Redox Depre			DD N					
	lucky Mineral (S1) (L	RR N,	Iron-Mangan		es (F12) (I	LKK N,					
	147, 148)		MLRA 13	-			3.				
	leyed Matrix (S4)		Umbric Surfa					ndicators of		-	
	edox (S5)		Piedmont Flo					vetland hydr			
	Matrix (S6)		Red Parent N	1aterial (F	21) (MLR .	A 127, 147	<u>')</u> ι	ınless distur	bed or probl	ematic.	
Restrictive L	ayer (if observed):										
Type:			_								
Depth (inc	ches):						Hydric So	oil Present?	Yes	No	~
Remarks:	, -						1 -				
no soil due to	gravel read										
no son que to	graverroau										



Wetland data point wrae275e_w facing north



Wetland data point wrae275e_w facing west

Project/Site: Atlantic Coast Pipeline		City/0	County: Randolph County	/	Sampling Date: 7/1/2016			
Applicant/Owner: Dominion					Sampling Point: wrae275_u			
			ion, Township, Range: No					
Landform (hillslope, terrace, etc.): road					Slope (%):2			
Subregion (LRR or MLRA): N					Datum: WGS 1984			
Soil Map Unit Name: Buchanan and Ernest	stony soils,	15 to 35 percent slo	pes	NWI classific	ation: UPL			
Are climatic / hydrologic conditions on the s	ite typical fo	r this time of year? `	Yes No	(If no, explain in R	emarks.)			
Are Vegetation, Soil, or Hyd	rology	significantly distu	rbed? Are "Normal	Circumstances" p	resent? Yes No			
Are Vegetation, Soil, or Hyd								
SUMMARY OF FINDINGS – Attac								
Hydrophytic Vegetation Present?	Yes	No 🗸						
		No 🗸	Is the Sampled Area	Voc	No			
	Yes		within a Wetland?	res	NO			
HYDROLOGY								
Wetland Hydrology Indicators:				Secondary Indica	tors (minimum of two required)			
Primary Indicators (minimum of one is req	uired; check	all that apply)		Surface Soil	Cracks (B6)			
Surface Water (A1)		True Aquatic Plants	(B14)	Sparsely Veg	getated Concave Surface (B8)			
High Water Table (A2)		Hydrogen Sulfide Od		Drainage Patterns (B10)				
Saturation (A3)			res on Living Roots (C3)					
Water Marks (B1)		Presence of Reduce		Dry-Season Water Table (C2)				
Sediment Deposits (B2)			on in Tilled Soils (C6)					
Drift Deposits (B3)		Thin Muck Surface (sible on Aerial Imagery (C9)			
Algal Mat or Crust (B4) Iron Deposits (B5)	— '	Other (Explain in Re	marks)	Geomorphic	tressed Plants (D1)			
Inundation Visible on Aerial Imagery (B7)			Shallow Aqui	, ,			
Water-Stained Leaves (B9)	<i>5.</i>				phic Relief (D4)			
Aquatic Fauna (B13)				FAC-Neutral				
Field Observations:								
Surface Water Present? Yes	No 🔽	Depth (inches):						
		Depth (inches):						
		Depth (inches):		lydrology Presen	t? Yes No			
Describe Recorded Data (stream gauge, r	nonitoring w	ell, aerial photos, pre	evious inspections), if ava	ilable:				
Remarks:								
No hydrology								
The flydrology								

Sampling Point: wrae275_u

, ,	Absolute	Dominant In	diantar	Deminance Test werksheet:
Tree Stratum (Plot size:)		Dominant In Species?	Status	Dominance Test worksheet:
Tice Stratain (Flot Size:	76 COVEL	Yes	FACU	Number of Dominant Species
1. Liriodendron tulipifera				That Are OBL, FACW, or FAC:2 (A)
2. Betula alleghaniensis	15	Yes	FAC	Total Number of Demisers
3. Acer saccharum	15	Yes	FACU	Total Number of Dominant Species Across All Strata: 4 (B)
4 Fagus grandifolia	10	No	FACU	Species Across Air Strata. (D)
4. Tagus granunona				Percent of Dominant Species
5				That Are OBL, FACW, or FAC:50 (A/B)
6				
				Prevalence Index worksheet:
7	55			Total % Cover of: Multiply by:
		= Total Cover		20 20
50% of total cover: 27.5	20% of	total cover:	11	Obl species X I =
Sapling/Shrub Stratum (Plot size: 15				FACW species0 x 2 =0
4 none	0			FAC species15
				45 100
2				FACU species 45 x 4 = 160 25
3				UPL species x 5 =
				Column Totals:85 (A)270 (B)
4				(, (,
5				Prevalence Index = B/A = 3.17
6				
				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				
	0	= Total Cover		3 - Prevalence Index is ≤3.0 ¹
50% of total cover: 0			0	4 - Morphological Adaptations ¹ (Provide supporting
30 /0 01 total cover.	20% of	total cover:		data in Remarks or on a separate sheet)
Herb Stratum (Plot size:5				• • • • • • • • • • • • • • • • • • • •
1. Carex prasina	20	Yes	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Liriodendron tulipifera	5	No	FACU	
				¹ Indicators of hydric soil and wetland hydrology must
3. Eurybia macrophylla	5	No	UPL	be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
				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.				
	30			Herb – All herbaceous (non-woody) plants, regardless
45		= Total Cover		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: 30)				height.
1. none	0			noight.
2				
3				
4				
				Hydrophytic
5				Vegetation
		= Total Cover		Present? Yes No
50% of total cover: 0	20% of	total cover:	0	
Remarks: (Include photo numbers here or on a separate s				
Remarks. (include prioto numbers here or on a separate s	neet.)			

Sampling Point: wrae275_u

	ription: (Describe t	o the depth r				or confirm	the absen	nce of indica	tors.)		
Depth	Matrix		Redo	x Features	S1	. 2			_		
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	<u> </u>	Remar	ks	
							-				
							-				
							-				
¹ Type: C=Co	ncentration, D=Depl	etion, RM=Re	duced Matrix, MS	S=Masked	Sand Gra	ains.	² Location:	: PL=Pore Lir	ning, M=Mat	rix.	
Hydric Soil I							Inc	dicators for F	Problematic	Hydric Sc	oils³:
Histosol	(A1)		Dark Surface	(S7)				2 cm Muck	(A10) (MLR	A 147)	
	ipedon (A2)	-	Polyvalue Be		ce (S8) (N	II RA 147.	148)	Coast Prair			
Black His		-	Tory value Be					_ COAST TAIL		,	
	n Sulfide (A4)	-	Loamy Gleye	, ,	•	,0)			Toodplain Sc	nils (F10)	
	Layers (A5)	-	Loanly Gleye Depleted Ma		1 2)		_	_ 1 ledillolit 1 (MLRA 1)iis (1 1 <i>3)</i>	
	ck (A10) (LRR N)	-	Depleted Ma Redox Dark		·c)				w Dark Surf	000 (TE12)	
	Below Dark Surface	.(Δ11)					-	_ Very Shallo _ Other (Expl			
		(A11) _	Depleted Date					_ Other (Expi	alli III Kellia	iks)	
	rk Surface (A12)	- -	Redox Depre			DD N					
	ucky Mineral (S1) (L	KK N,	Iron-Mangan		es (F12) (I	LKK N,					
	147, 148)		MLRA 13	•			3				
	leyed Matrix (S4)	-	Umbric Surfa					Indicators of		-	
	edox (S5)	-	Piedmont Flo					wetland hydr			
	Matrix (S6)	-	Red Parent N	/laterial (F	21) (MLR .	A 127, 147	')	unless distur	bed or probl	ematic.	
Restrictive L	ayer (if observed):										
Type:			_								
Depth (inc	:hes):						Hydric S	Soil Present?	Yes	No	~
Remarks:							, , , ,				
	4										
no son pit due	to gravel road										



Upland data point wrae275_u facing south



Upland data point wrae275_u facing east

Project/Site: Atlantic Coast Pipeline		City/C	County: Randolph County	/	Sampling Date: 6/27/2016
Applicant/Owner: Dominion		State: WV	Sampling Point: wrae266e_w		
Investigator(s): CG, SA Section, Township, Range: No PLSS in this area					
Landform (hillslope, terrace, etc.): road					
Subregion (LRR or MLRA): N					
Soil Map Unit Name: Gilpin-Dekalb sto	ny complex, mo	ist, 35 to 70 percent s	slopes	NWI classifi	cation: PEM
Are climatic / hydrologic conditions on t	he site typical fc	or this time of year?	′es No	(If no, explain in F	Remarks.)
Are Vegetation, Soil, or	Hydrology	significantly distur	bed? Are "Norma	I Circumstances"	present? Yes No
Are Vegetation, Soil, or					
SUMMARY OF FINDINGS – A					
Hudrophytia Vagatation Propent?	Yes _ 🗸	No			
Hydrophytic Vegetation Present? Hydric Soil Present?	Yes V	No	Is the Sampled Area	. v	
Wetland Hydrology Present?		 No	within a Wetland?	Yes	No
Remarks:					
HYDROLOGY					
Wetland Hydrology Indicators:				Secondary Indic	ators (minimum of two required)
Primary Indicators (minimum of one is	required: check	call that apply)		Surface Soil	
Surface Water (A1)		True Aquatic Plants ((B14)		getated 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 Reduce			Water Table (C2)
Sediment Deposits (B2)		Recent Iron Reduction		Crayfish Bu	
Drift Deposits (B3)		Thin Muck Surface (0	C7)	Saturation V	isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Other (Explain in Rei	marks)	Stunted or S	Stressed Plants (D1)
Iron Deposits (B5)				Geomorphic	Position (D2)
Inundation Visible on Aerial Imag	ery (B7)			Shallow Aqu	uitard (D3)
Water-Stained Leaves (B9)					aphic Relief (D4)
Aquatic Fauna (B13)				✓ FAC-Neutra	l Test (D5)
Field Observations:	1				
		Depth (inches):	0		
		Depth (inches):	0		
Saturation Present? Yes _ (includes capillary fringe)	No	Depth (inches):	Wetland F	lydrology Prese	nt? Yes V No
Describe Recorded Data (stream gau	ge, monitoring v	vell, aerial photos, pre	evious inspections), if ava	ilable:	
Devent					
Remarks:					

Sampling	Point: wrae266e_	w
Samonno	P() ao_ooo_	

88	Absolute	Dominant In		Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Species?	<u>Status</u>	Number of Dominant Species
1. <u>none</u>				That Are OBL, FACW, or FAC:3 (A)
2				Total Number of Deminerat
3				Total Number of Dominant Species Across All Strata: 3 (B)
4.		·		Openies / toress / tir etrata.
		· · · · · · · · ·		Percent of Dominant Species
5				That Are OBL, FACW, or FAC:100 (A/B)
6	-			Prevalence Index worksheet:
7				
	0	= Total Cover		Total % Cover of: Multiply by: ORL species 50 x 1 = 50
50% of total cover:0	20% of	total cover:	0	OBL species X I =
Sapling/Shrub Stratum (Plot size: 15				FACW species
1 none	0			FAC species0 x 3 =0
2	-			FACU species0 x 4 =0
2				UPL species 0 x 5 = 0
3				75 100
4				Column Totals:(A)(B)
5				Prevalence Index = B/A =1.33
6		·	·	Trevalence mack = B/T(=
			_	Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9				✓ 3 - Prevalence Index is ≤3.0¹
	0	= Total Cover		4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover:0	20% of	total cover:	0	
Herb Stratum (Plot size: 5				data in Remarks or on a separate sheet)
1 Scirpus atrovirens	25	Yes	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Glyceria striata	15	Yes	OBL	
3. Leersia virginica	15	Yes	FACW	¹ Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
△ Carex canescens	10	No	OBL	
Ti				Definitions of Four Vegetation Strata:
5. Juncus effusus	10	No	FACW	Definitions of Four Vegetation Strata:
5. Juncus effusus	10			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
5. Juncus effusus 6.	10			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5. Juncus effusus 6. 7.	10			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
5. Juncus effusus 6	10			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less
5. Juncus effusus 6. 7.	10			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
5. Juncus effusus 6. 7. 8.	10			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less
5. Juncus effusus 6	10			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
5. Juncus effusus 6. 7. 8. 9. 10.	10	No	FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
5. Juncus effusus 6.	10 	No N	FACW	 Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 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.
5. Juncus effusus 6.	10 	No	FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 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 – All woody vines greater than 3.28 ft in
5. Juncus effusus 6	10 10 75 20% of	No N	FACW	 Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 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.
5. Juncus effusus 6	10 	No N	FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 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 – All woody vines greater than 3.28 ft in
5. Juncus effusus 6	10	No N	FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 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 – All woody vines greater than 3.28 ft in
5. Juncus effusus 6	10	No N	FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 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 – All woody vines greater than 3.28 ft in
5. Juncus effusus 6	75 20% of 0	No N	FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 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 – All woody vines greater than 3.28 ft in height.
5. Juncus effusus 6	75 20% of 0	No N	FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 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 – All woody vines greater than 3.28 ft in height.
5. Juncus effusus 6.	10	No Total Cover total cover:	15	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 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 – All woody vines greater than 3.28 ft in height.
5. Juncus effusus 6	10	No Total Cover total cover: Total Cover	15	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 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 – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
5. Juncus effusus 6	75 20% of 0 0 20% of	No Total Cover total cover:	15	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 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 – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
5. Juncus effusus 6	75 20% of 0 0 20% of	No Total Cover total cover: Total Cover	15	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 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 – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
5. Juncus effusus 6	75 20% of 0 0 20% of	No Total Cover total cover: Total Cover	15	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 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 – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
5. Juncus effusus 6	75 20% of 0 0 20% of	No Total Cover total cover: Total Cover	15	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 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 – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
5. Juncus effusus 6	75 20% of 0 0 20% of	No Total Cover total cover: Total Cover	15	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 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 – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
5. Juncus effusus 6	75 20% of 0 0 20% of	No Total Cover total cover: Total Cover	15	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 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 – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
5. Juncus effusus 6	75 20% of 0 0 20% of	No Total Cover total cover: Total Cover	15	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 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 – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
5. Juncus effusus 6	75 20% of 0 0 20% of	No Total Cover total cover: Total Cover	15	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 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 – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
5. Juncus effusus 6	75 20% of 0 0 20% of	No Total Cover total cover: Total Cover	15	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 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 – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation

Depth	Matrix			x Features				
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	Remarks
0-12	10YR 4/2	90	10YR 4/6	90	C	M	SCL	
	-							
_	-		-					
	-							
Type: C=C	oncentration. D=Dep	letion. RM:	=Reduced Matrix, MS	S=Masked	Sand Gra	ins.	² Location: P	L=Pore Lining, M=Matrix.
lydric Soil			,					ators for Problematic Hydric Soils ³ :
Histosol			Dark Surface	(S7)				2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be		e (S8) (N	LRA 147.		Coast Prairie Redox (A16)
	stic (A3)		Thin Dark Su		. , .		,	(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye			47, 140)	Б	Piedmont Floodplain Soils (F19)
	d Layers (A5)		<u>✓</u> Depleted Mat		2)		'	(MLRA 136, 147)
	ick (A10) (LRR N)		Redox Dark S		6)		V	/ery Shallow Dark Surface (TF12)
	d Below Dark Surface	· (A11)	Depleted Dar	,	,			Other (Explain in Remarks)
	ark Surface (A12)	= (A11)	Redox Depre					ottler (Explain in Kemarks)
		DD N				DD N		
	Mucky Mineral (S1) (L	.KK N,	Iron-Mangane		es (F12) (I	LKK N,		
	A 147, 148)		MLRA 130	-	MI DA 40	0 400\	3,	Parton of hardwarks for an artofan and
	Gleyed Matrix (S4)		Umbric Surfa					dicators of hydrophytic vegetation and
-	Redox (S5)		Piedmont Flo					etland hydrology must be present,
	Matrix (S6)		Red Parent M	laterial (F2	21) (MLR	A 127, 147) un	less disturbed or problematic.
Restrictive	Layer (if observed):							
Type:								_
Depth (in	ches):						Hydric Soil	l Present? Yes No
Remarks:								



Wetland data point wrae266e_w facing east



Wetland data point wrae266e_w facing west

Project/Site: Atlantic Coast Pipeline	City/County: Randolph County Sampling Date: 6/27/2016						
Applicant/Owner: Dominion		State: WV Sampling Point: wrae266_					
	Section, Township, Range: No PLSS in this area						
indform (hillslope, terrace, etc.): Road Local relief (concave, convex, none): none Slope (%): 15							
Subregion (LRR or MLRA): N Lat: 38.5870282 Long: -80.17307527 I Soil Map Unit Name: Gilpin-Dekalb stony complex, moist, 35 to 70 percent slopes NWI classification: UPL							
Are climatic / hydrologic conditions on the site							
Are Vegetation, Soil, or Hydro	logy significantly distu	rbed? Are "Normal Circ	cumstances" pre	sent? Yes No			
Are Vegetation, Soil, or Hydro							
SUMMARY OF FINDINGS – Attach							
Hydrophytic Vegetation Present? Ye							
	es No No	Is the Sampled Area	Yes	No. V			
	es No V	within a Wetland?	res	NO			
HYDROLOGY							
Wetland Hydrology Indicators:		Sec	condary Indicator	rs (minimum of two required)			
Primary Indicators (minimum of one is require	red; 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 Od	dor (C1)	Drainage Patter	rns (B10)			
Saturation (A3)	Oxidized Rhizosphe	res on Living Roots (C3)	Moss Trim Lines (B16)				
Water Marks (B1)	Presence of Reduce		Dry-Season Water Table (C2)				
Sediment Deposits (B2)	Recent Iron Reduction	on in Tilled Soils (C6)					
Drift Deposits (B3)	Thin Muck Surface (Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	Other (Explain in Re	marks)	Stunted or Stressed Plants (D1)				
Iron Deposits (B5)	7\	_	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:		-	rac-neutral re				
	No Depth (inches):						
	No Depth (inches):						
	No Depth (inches):		Wetland Hydrology Present? Yes No				
(includes capillary fringe)	No Deptil (illiches)	Welland Hydr	ology Fresent:	Yes No			
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos, pro	evious inspections), if availabl	e:				
Remarks:							
No hydrology present.							
The flydrology present.							

Sampling Point, wigezoo_c	Sampling	Point: wrae266_	_u
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20	Absolute	Dominant I		Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?	Status	Number of Dominant Species
1. Acer saccharum	20	Yes	FACU	That Are OBL, FACW, or FAC:1 (A)
2. Liriodendron tulipifera	10	Yes	FACU	Total New Long (Developed
3				Total Number of Dominant Species Across All Strata: 6 (B)
4.				Openies / toross / tir etrata.
				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 16.66666666 (A/B)
6				Prevalence Index worksheet:
7				
	30	= Total Cove		Total % Cover of: Multiply by: OBL species 0 x 1 = 0
50% of total cover: 15	20% of	total cover:_	6	ODL species
Sapling/Shrub Stratum (Plot size: 15				FACW species x 2 =
1 Quercus rubra	10	Yes	FACU	FAC species 50 x 3 = 150
2. Acer saccharum	5	Yes	FACU	FACU species110 x 4 =440
				UPL species
3				160 590
4				Column Totals: (A) (B)
5				Prevalence Index = B/A =3.68
6				1 Tovalence index = B/Tt =
7				Hydrophytic Vegetation Indicators:
•				1 - Rapid Test for Hydrophytic Vegetation
•				2 - Dominance Test is >50%
9	15			3 - Prevalence Index is ≤3.0 ¹
75		= Total Cove	r 3	4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover: 7.5	20% of	total cover:_		data in Remarks or on a separate sheet)
Herb Stratum (Plot size:5				·
1. Dichanthelium clandestinum	50	Yes	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Dennstaedtia punctilobula	25	Yes	FACU	
3. Potentilla simplex	15	No	FACU	¹Indicators of hydric soil and wetland hydrology must
4 Rubus allegheniensis	10	No	FACU	be present, unless disturbed or problematic.
5 Solidago canadensis	10	No	FACU	Definitions of Four Vegetation Strata:
·	5	No	FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6. Liriodendron tulipifera			FACU	more in diameter at breast height (DBH), regardless of
7				height.
8				Senting/Shrub Weedy plants evaluding vines less
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.				
· · · · · · · · · · · · · · · · · · ·	115			Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 57.5		= Total Cove		or size, and woody plants less than 3.26 it tall.
0070 01 10101 00 1011	<u></u>	total cover:_		Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size:)	•			height.
1. none	0			
2				
3				
4				
				Hydrophytic
5				Vegetation Present? Yes No
0		= 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	heet.)			
	,			

Sampling Point: wrae266_u

Profile Desc	ription: (Describe t	o the depth	needed to docur	nent the i	ndicator	or confirm	the abse	nce of indica	tors.)		
Depth	Matrix			x Features	S	. 2	_		_		
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>		Remar	ks	
											
17		DM Da	alica al Matrico Mi	- Maalaa			21				
	oncentration, D=Deple	etion, RIVI=RE	educed Matrix, Mi	5=IVIasked	Sand Gra	ains.		: PL=Pore Li			-:1-3.
Hydric Soil I	ndicators:						In	dicators for l	roblematic	Hydric So	oils":
Histosol		,	Dark Surface				_		(A10) (MLR		
Histic Ep	pipedon (A2)		Polyvalue Be	low Surfa	ce (S8) (N	ILRA 147,	148)	Coast Prair	ie Redox (A	16)	
Black His	stic (A3)		Thin Dark Sເ	ırface (S9)	(MLRA 1	47, 148)		(MLRA 1	147, 148)		
Hydroge	n Sulfide (A4)		Loamy Gleye	ed Matrix (F2)			_ Piedmont F	Floodplain So	oils (F19)	
	Layers (A5)		Depleted Ma		,				136, 147)	` ,	
	ck (A10) (LRR N)	•	Redox Dark		6)				w Dark Surf	ace (TF12))
	Below Dark Surface	(A11)	Depleted Da	•	•		_		lain in Rema		,
	ark Surface (A12)	(/ /	Redox Depre					_ 00. (_,,			
	lucky Mineral (S1) (L	DD NI	Iron-Mangan			DD N					
		NN N,			55 (1-12 <i>)</i> (1	-NN IN,					
	147, 148)		MLRA 13	•		0 400\		3			
	leyed Matrix (S4)		Umbric Surfa					³ Indicators of		-	
	edox (S5)		Piedmont Flo					wetland hyd			,
Stripped	Matrix (S6)	;	Red Parent N	∕laterial (F	21) (MLR .	A 127, 147	7)	unless distu	bed or probl	lematic.	
Restrictive L	ayer (if observed):										
Type:											
Depth (inc	shee):		_				Hydric	Soil Present?	Yes	No	~
	,iies)		_				Tiyunc .	John Fresent:		'''-	
Remarks:											
No soil pit dug	due to gravel and co	obble road.									



Upland data point wrae266_u facing south



Upland data point wrae266_u facing west

Project/Site: Atlantic Coast Pipeline		City/County: Randolph County Sampling Date: 7/1/2016						
Applicant/Owner: Dominion	State: WV Sampling Point: wrae274e_v							
Landform (hillslope, terrace, etc.): road Local relief (concave, convex, none): concave Slope (%): 3								
Subregion (LRR or MLRA): N Lat: 38.58773631 Long: -80.17368357 Datum: WG:								
Soil Map Unit Name: Gilpin-Dekalb st	tony complex, moist, 35 to 70	percent slopes	NWI classifica	ation: PEM				
Are climatic / hydrologic conditions or	the site typical for this time	of year? Yes No	(If no, explain in Re	emarks.)				
Are Vegetation, Soil,	or Hydrology significa	antly disturbed? Are "Normal	l Circumstances" p	resent? Yes No				
Are Vegetation, Soil,								
SUMMARY OF FINDINGS -								
Hydrophytic Vegetation Present?								
Hydric Soil Present?	Yes No Yes No	is the Sampled Area	V V	No				
Wetland Hydrology Present?	Yes V No		res	NO				
roadbed, highly disturbed								
HYDROLOGY								
Wetland Hydrology Indicators:				tors (minimum of two required)				
Primary Indicators (minimum of one			Surface Soil (
Surface Water (A1)		tic Plants (B14)		getated Concave Surface (B8)				
High Water Table (A2)		Sulfide Odor (C1)	✓ Drainage Pat					
Saturation (A3)		thizospheres on Living Roots (C3)	Moss Trim Li	, ,				
Water Marks (B1)		of Reduced Iron (C4)	-	Water Table (C2)				
Sediment Deposits (B2) Drift Deposits (B3)		n Reduction in Tilled Soils (C6) Surface (C7)	Crayfish Burn	sible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)		lain in Remarks)		- · · · · · · · · · · · · · · · · · · ·				
Iron Deposits (B5)	<u> </u>	nam m resmante,	Stunted or Stressed Plants (D1) Geomorphic Position (D2)					
Inundation Visible on Aerial Ima	igery (B7)		Shallow Aquitard (D3)					
Water-Stained Leaves (B9)			Microtopographic Relief (D4)					
Aquatic Fauna (B13)			FAC-Neutral Test (D5)					
Field Observations:								
	No Depth (inc							
Water Table Present? Yes	No Depth (inc	ches):0						
Saturation Present? Yes	No Depth (inc		Hydrology Presen	t? Yes 🗸 No				
(includes capillary fringe) Describe Recorded Data (stream ga		hotos previous inspections) if ava	ailahle:					
Describe recorded Data (Stream ga	age, monitoring well, dentil p	motos, previous mopestions), ii ava	mable.					
Remarks:								

Sampling Poi	nt·wrae274e_w
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00	Absolute	Dominant In		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: 30)	% Cover 0	Species?	Status	Number of Dominant Species
1. none				That Are OBL, FACW, or FAC:2 (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: 100 (A/B)
6				
7				Prevalence Index worksheet:
	0	= Total Cover		Total % Cover of: Multiply by:
50% of total cover:0	20% of	total cover:	0	OBL species x 1 = 85
Sapling/Shrub Stratum (Plot size: 15				FACW species x 2 =60
1. none	0			FAC species0 x 3 =0
2				FACU species0 x 4 =0
3				UPL species0 x 5 =0
4.				Column Totals:115
·				
5				Prevalence Index = B/A =1.26
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9				✓ 3 - Prevalence Index is ≤3.0 ¹
0		= Total Cover	0	4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover:0	20% of	total cover:		data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5	70		0.01	Problematic Hydrophytic Vegetation ¹ (Explain)
1. Scirpus atrovirens	70	Yes	OBL	
2. Juncus effusus	30	Yes	FACW	¹ Indicators of hydric soil and wetland hydrology must
3. Carex prasina	15	No	OBL	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				
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.				
	115	= Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 57.5		total cover:		
Woody Vine Stratum (Plot size: 30)				Woody vine – All woody vines greater than 3.28 ft in
1. none	0			height.
3				
4				Hydrophytic
5				Vegetation Present? Yes No
50% of total cover: 0		= Total Cover	0	1163 <u>163</u> 163
0070 01 total 00701.		total cover:		
Remarks: (Include photo numbers here or on a separate s	heet.)			
				I

Profile Desc	ription: (Describe t	o the depth	needed to docum	nent the in	dicator	or confirm	the absence	of indicate	ors.)	
Depth	Matrix		Redo	x Features						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	. 	Remarks	
0-3								muck no d	color	
										_
							-			
	oncentration, D=Depl	etion, RM=R	educed Matrix, MS	S=Masked S	Sand Gra	ains.			ng, M=Matrix.	
Hydric Soil	Indicators:						Indic	ators for Pr	oblematic Hy	/dric Soils³:
Histosol	(A1)		Dark Surface	(S7)			2	2 cm Muck (A	A10) (MLRA 1	47)
Histic Ep	oipedon (A2)		Polyvalue Be	low Surface	e (S8) (N	ILRA 147,	148) (Coast Prairie	Redox (A16)	
Black Hi	stic (A3)		Thin Dark Su	rface (S9)	(MLRA 1	47, 148)		(MLRA 14	7, 148)	
	en Sulfide (A4)		Loamy Gleye		2)		F		oodplain Soils	(F19)
	d Layers (A5)		Depleted Ma					(MLRA 13		
	ıck (A10) (LRR N)		Redox Dark						Dark Surface	
	d Below Dark Surface	(A11)	Depleted Dar				<u> </u>	Other (Expla	in in Remarks)
	ark Surface (A12)	DD N	Redox Depre			DD N				
	Mucky Mineral (S1) (L	KK N,	Iron-Mangan		s (F12) (I	LKK N,				
	A 147, 148) Gleyed Matrix (S4)		MLRA 13		M D A 12	6 122\	³ ln/	diantara of h	ydrophytic veg	rotation and
	Redox (S5)		Piedmont Flo						logy must be	
	Matrix (S6)		Red Parent N					-	ed or problem	
	Layer (if observed):		Red r arent n	iatoriai (i z	i) (IIILIX	A 121, 141	, ui	iicaa diatarb	ca or problem	allo.
Type:	-ayo. (obco. roa).									
	-h \.		_				Usadaia Cai	l D	Yes_	N.
	ches):		_				Hydric Soi	i Present?	res	No
Remarks:										



Wetland data point wrae274e_w facing north



Wetland data point wrae274e_w facing west

Project/Site: Atlantic Coast Pipeline		City/County: Randolph County Sampling Date: 7/1/2016						
Applicant/Owner: Dominion		State: WV Sampling Point: wrae274_u						
	Section, Township, Range: No PLSS in this area							
andform (hillslope, terrace, etc.): road Local relief (concave, convex, none): convex Slope (%): 2								
Subregion (LRR or MLRA): N Lat: 38.58776744 Long: -80.17356755 Datum: WGS Soil Map Unit Name: Gilpin-Dekalb stony complex, moist, 35 to 70 percent slopes NWI classification: UPL								
Are climatic / hydrologic conditions on tl								
Are Vegetation, Soil, or	Hydrology	, significantly distur	bed? Are "Normal	Circumstances" p	present? Yes No			
Are Vegetation, Soil, or								
SUMMARY OF FINDINGS – A	-							
Hydrophytic Vegetation Present?	Hydrophytic Vegetation Present? Yes No							
Hydric Soil Present?		No 🗸	Is the Sampled Area within a Wetland?	Voc	No 🗸			
Wetland Hydrology Present?	Yes		within a wetland?	res	NO			
HYDROLOGY								
Wetland Hydrology Indicators:					ators (minimum of two required)			
Primary Indicators (minimum of one is	required; checl	k all that apply)		Surface Soil Cracks (B6)				
Surface Water (A1)		True Aquatic Plants (Sparsely Vegetated Concave Surface (B8)				
High Water Table (A2)		Hydrogen Sulfide Od		Drainage Pa				
Saturation (A3)			• ,					
Water Marks (B1) Sediment Deposits (B2)		Presence of Reduced Recent Iron Reduction		Dry-Season Water Table (C2) s (C6) Crayfish Burrows (C8)				
Sediment Deposits (B2) Drift Deposits (B3)		Thin Muck Surface (-				
Algal Mat or Crust (B4)		Other (Explain in Rer		Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1)				
Iron Deposits (B5)		С (— . р	,	Stunted or Stressed Plants (D1) Geomorphic Position (D2)				
Inundation Visible on Aerial Image	ery (B7)			Shallow Aquitard (D3)				
Water-Stained Leaves (B9)				Microtopographic Relief (D4) FAC-Neutral Test (D5)				
Aquatic Fauna (B13)								
Field Observations:								
		Depth (inches):						
		Depth (inches):						
Saturation Present? Yes (includes capillary fringe)	No	Depth (inches):	Wetland H	lydrology Preser	nt? Yes No			
Describe Recorded Data (stream gaug	je, monitoring v	well, aerial photos, pre	evious inspections), if ava	ilable:				
Remarks:								
No hydrology								

Sampling Point: wrae274_u

,	Absolute	Dominant In	dicator	Dominance Test worksheet:
Tree Stratum (Plot size:)			Status	
1 Acer saccharum	15	Yes	FACU	Number of Dominant Species That Are OBL FACW or FAC: 2 (A)
2. Betula alleghaniensis	15	Yes	FAC	That Are OBL, FACW, or FAC:2 (A)
				Total Number of Dominant
3. Liriodendron tulipifera	15	Yes	FACU	Species Across All Strata: 4 (B)
4. Fagus grandifolia	10	No	FACU	
5				Percent of Dominant Species That Are OBL FACW or FAC: 50 (A/B)
				That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
1	55			Total % Cover of: Multiply by:
		= Total Cover		
50% of total cover: 27.5	20% of	total cover:	11	OBL species
Sapling/Shrub Stratum (Plot size: 15				FACW species x 2 =
1. none	0			FAC species15
-				FACU species45
2				UPL species 5 x 5 = 25
3				05 270
4				Column Totals:65 (A)(B)
5				Prevalence Index = B/A = 3.17
6		· -		1 revalence mack = B/rt =
				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 ¹
	0	= Total Cover		
50% of total cover:		total cover:	0	4 - Morphological Adaptations ¹ (Provide supporting
Herb Stratum (Plot size: 5)				data in Remarks or on a separate sheet)
1 Carex prasina	20	Yes	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
·-				
2. Eurybia macrophylla	5	<u>No</u>	UPL	Indicators of hydric soil and watland hydrology must
3. Liriodendron tulipifera	5	No	FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4				
_				Definitions of Four Vegetation Strata:
-				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6				more in diameter at breast height (DBH), regardless of
7				height.
8				
9				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
				m) tall.
				, t
11		 -		Herb – All herbaceous (non-woody) plants, regardless
		= Total Cover		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: 30)				height.
1. none	0			Tongs.
2.				
				
3		 -		
4				Hydrophytic
5		·		Vegetation
	0	= Total Cover		Present? Yes No
50% of total cover: 0		total cover:	0	
Remarks: (Include photo numbers here or on a separate sl	neet.)			

Sampling Point: wrae274_u

Profile Desc	ription: (Describe t	o the depth r				or confirm	the absen	ce of indica	tors.)		
Depth	Matrix		Redo	x Features	S1	. 2	- .		_		
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>		Remar	KS	
							-				
							-				
							-				
¹ Type: C=Cc	ncentration, D=Depl	etion, RM=Re	educed Matrix, MS	S=Masked	Sand Gra	ains.	² Location:	PL=Pore Lir	ning, M=Mat	rix.	
Hydric Soil I	ndicators:						Ind	icators for F	Problematic	Hydric So	oils³:
Histosol	(A1)		Dark Surface	(S7)				2 cm Muck	(A10) (MLR	A 147)	
	ipedon (A2)	-	Polyvalue Be		ce (S8) (N	ILRA 147.	148)	Coast Prair			
Black His		-	Thin Dark Su				-,	(MLRA 1		,	
	n Sulfide (A4)	-	Loamy Gleye	, ,	•	,,		Piedmont F		ils (F19)	
	Layers (A5)	-	Depleted Ma		,			(MLRA 1)o (1 10)	
	ck (A10) (LRR N)	-	Redox Dark		:6)				w Dark Surf	aca (TF12)	
	Below Dark Surface	(Δ11)	Depleted Dai				_	Other (Expl			1
	rk Surface (A12)	(A11)	Redox Depre				_	Other (Expi	alli ili ixcilia	iko)	
	ucky Mineral (S1) (L	DD N	Iron-Mangan			DD N					
		KK N,			85 (F12) (1	LKK N,					
	147, 148)		MLRA 13	•	MIDA 40	C 400\	3,		المناف ما ما ما ما ما		
	leyed Matrix (S4)	-	Umbric Surfa					ndicators of		-	
	edox (S5)	-	Piedmont Flo					wetland hydr			1
	Matrix (S6)	-	Red Parent N	/laterial (F	21) (MLR .	A 127, 147	<u>') </u>	unless distur	bed or probl	ematic.	
Restrictive L	.ayer (if observed):										
Type:			_								
Depth (inc	ches):		_				Hydric So	oil Present?	Yes	No_	<u> </u>
Remarks:	-						1 -				
	to gravel road										
no son pit due	to graver road										



Upland data point wrae274_u facing south



Upland data point wrae274_u facing east

Project/Site: Atlantic Coast Pipeline		City/C	County: Randolph County	/	Sampling Date: 7/1/2016				
Applicant/Owner: Dominion			State: WV Sampling Point: wrae273e_w						
			on, Township, Range: No						
Landform (hillslope, terrace, etc.): road					Slope (%): <u>3</u>				
Subregion (LRR or MLRA): N		38.58861135	Long: -80.17161548 Datum: WGS 1984						
Soil Map Unit Name: Gilpin-Dekalb ston		st, 35 to 70 percent s	lopes	NWI classific	cation: PEM				
Are climatic / hydrologic conditions on the	e site typical for	this time of year? Y	′es No	(If no, explain in F	Remarks.)				
Are Vegetation, Soil, or I	-lydrology	significantly distur	bed? Are "Normal	l Circumstances"	oresent? Yes No				
Are Vegetation, Soil, or I									
SUMMARY OF FINDINGS – A									
Hydrophytic Vegetation Present?	Yes	No							
Hydric Soil Present?	Yes V	No	Is the Sampled Area	V V	No				
Wetland Hydrology Present?		No	within a Wetland?	res	NO				
roadbed, highly disturbed									
HYDROLOGY									
Wetland Hydrology Indicators:				Secondary Indica	ators (minimum of two required)				
Primary Indicators (minimum of one is	required; check	all that apply)		Surface Soil Cracks (B6)					
Surface Water (A1)		rue Aquatic Plants (Sparsely Vegetated Concave Surface (B8)					
High Water Table (A2)		Hydrogen Sulfide Od		<u>✓</u> Drainage Pa					
Saturation (A3)			es on Living Roots (C3)	Dry-Season Water Table (C2)					
Water Marks (B1)		Presence of Reduced							
Sediment Deposits (B2) Drift Deposits (B3)		Thin Muck Surface (on in Tilled Soils (C6)	-	isible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)		Other (Explain in Rer			stressed Plants (D1)				
Iron Deposits (B5)		outer (Explain in No.	namo)		Position (D2)				
Inundation Visible on Aerial Image	ry (B7)			Shallow Aquitard (D3)					
Water-Stained Leaves (B9)	,		Microtopographic Relief (D4)						
Aquatic Fauna (B13)				FAC-Neutra					
Field Observations:									
		Depth (inches):							
Water Table Present? Yes	✓ No	Depth (inches):	0						
Saturation Present? Yes	✓ No		0 Wetland H	Wetland Hydrology Present? Yes <u>✓</u> No					
(includes capillary fringe) Describe Recorded Data (stream gauge	e monitoring we	ell aerial nhotos pre	vious inspections) if ava	ailahle:					
2000 No Nosorada Zata (Gream gaug	o, monitoring we	on, aoriai priotoo, pro	rriodo mopocacino), a dve	masio.					
Remarks:									

00	Absolute	Dominant In		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: 30)	% Cover 0	Species?	Status	Number of Dominant Species
1. none				That Are OBL, FACW, or FAC:2 (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: 100 (A/B)
6				
7				Prevalence Index worksheet:
	0	= Total Cover		Total % Cover of: Multiply by:
50% of total cover:0	20% of	total cover:	0	OBL species85 x 1 =85
Sapling/Shrub Stratum (Plot size: 15				FACW species x 2 =60
1. none	0			FAC species0 x 3 =0
2				FACU species0 x 4 =0
3				UPL species0 x 5 =0
4.				Column Totals:115
·				
5				Prevalence Index = B/A =1.26
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9				✓ 3 - Prevalence Index is ≤3.0 ¹
0		= Total Cover	0	4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover:0	20% of	total cover:		data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5	70		0.01	Problematic Hydrophytic Vegetation ¹ (Explain)
1. Scirpus atrovirens	70	Yes	OBL	
2. Juncus effusus	30	Yes	FACW	¹ Indicators of hydric soil and wetland hydrology must
3. Carex prasina	15	No	OBL	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				
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.				
	115	= Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 57.5		total cover:		
Woody Vine Stratum (Plot size: 30)				Woody vine – All woody vines greater than 3.28 ft in
1. none	0			height.
3				
4				Hydrophytic
5				Vegetation Present? Yes No
50% of total cover: 0		= Total Cover	0	103 NO
0070 01 total 00701.		total cover:		
Remarks: (Include photo numbers here or on a separate s	heet.)			

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)											
Depth	Matrix		Redo	x Features							
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	_	Remarks		
0-3								muck no	color		
							-				
											
								_			
								_			
			-							-	
							-				
¹ Type: C=Co	oncentration, D=Depl	etion, RM=Re	educed Matrix, MS	S=Masked	Sand Gra	ains.	² Location:	PL=Pore Lin	ing, M=Matrix		
Hydric Soil									roblematic H		
Histosol	(A1)		Dark Surface	(S7)					A10) (MLRA	-	
	pipedon (A2)		Polyvalue Be		e (S8) (M	ILRA 147			Redox (A16)		
Black Hi			Thin Dark Su				,	(MLRA 14		'	
	n Sulfide (A4)		Loamy Gleye			, 1-0)			oodplain Soils	(F19)	
	d Layers (A5)		Depleted Mar		-)			(MLRA 13		(113)	
	ick (A10) (LRR N)		Redox Dark \$		3)				v Dark Surfac	o (TE12)	
	d Below Dark Surface	(//11)	Depleted Dar						in in Remarks		
	ark Surface (A12)	(Д11)	Redox Depre					Other (Expla	iii iii ixemarks	P)	
		DD N				DD N					
	Mucky Mineral (S1) (L	KK N,	Iron-Mangan		S (F12) (I	LKK N,					
	147, 148)		MLRA 13		MI DA 42	c 400\	31	diantora of b	v dranhv tia v a	actation and	
	Gleyed Matrix (S4)		Umbric Surfa						ydrophytic ve	-	
	ledox (S5)		Piedmont Flo					-	ology must be	-	
	Matrix (S6)		Red Parent N	faterial (F2	21) (MLR	A 127, 147) U	inless disturb	ed or problem	natic.	
Restrictive I	_ayer (if observed):										
Type: roc	,		_								
Depth (inc	ches): <u>3</u>		_				Hydric So	il Present?	Yes	No	
Remarks:											



Wetland data point wrae273e_w facing north



Wetland data point wrae273e_w facing west

Project/Site: Atlantic Coast Pipeline		City/C	County: Randolph County	′	Sampling Date: 7/1/2016				
Applicant/Owner: Dominion		State: WV Sampling Point: wrae273_u							
			on, Township, Range: No						
Landform (hillslope, terrace, etc.): road					Slope (%):2				
Subregion (LRR or MLRA): N				Long: -80.17154148 Datum: WGS 1984					
Soil Map Unit Name: Gilpin-Dekalb stor	y complex, mo	oist, 35 to 70 percent s	slopes	NWI classific	ation: UPL				
Are climatic / hydrologic conditions on the	ne site typical fo	or this time of year? Y	′es No	(If no, explain in R	emarks.)				
Are Vegetation, Soil, or	Hydrology	significantly distur	bed? Are "Normal	Circumstances" p	oresent? Yes No				
Are Vegetation, Soil, or									
SUMMARY OF FINDINGS – A	-								
Hydrophytic Vegetation Present?	Yes	No 🗸							
Hydric Soil Present?		No	Is the Sampled Area	Voc	No				
Wetland Hydrology Present?	Yes		within a Wetland?	res	NO				
HYDROLOGY									
Wetland Hydrology Indicators:					tors (minimum of two required)				
Primary Indicators (minimum of one is	•			Surface Soil Cracks (B6)					
Surface Water (A1)		True Aquatic Plants (Sparsely Vegetated Concave Surface (B8)					
High Water Table (A2)		Hydrogen Sulfide Od		Drainage Patterns (B10)					
Saturation (A3)		Oxidized Rhizospheres on Living Roots (C3) Moss Trim Lines (B16) Presence of Reduced Iron (C4) Dry-Season Water Table (C2)							
Water Marks (B1) Sediment Deposits (B2)		Recent Iron Reduction	rows (C8)						
Occurrent Deposits (B2) Drift Deposits (B3)		Thin Muck Surface (· ·	sible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)		Other (Explain in Rer			tressed Plants (D1)				
Iron Deposits (B5)				Geomorphic Position (D2)					
Inundation Visible on Aerial Image	ery (B7)			Shallow Aquitard (D3)					
Water-Stained Leaves (B9)				Microtopographic Relief (D4)					
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)				
Field Observations:									
		Depth (inches):							
		Depth (inches):							
(includes capillary fringe)		Depth (inches):		Wetland Hydrology Present? Yes No					
Describe Recorded Data (stream gaug	ge, monitoring v	well, aerial photos, pre	evious inspections), if ava	ilable:					
Remarks:									
No hydrology									

Sampling Po	oint: ^{wrae273} _u
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	Absolute	Dominant In	dicator	Dominance Test worksheet:
Tree Stratum (Plot size:)			Status	Number of Dominant Species
1. Liriodendron tulipifera	15	Yes	FACU	That Are OBL, FACW, or FAC: 2 (A)
2. Betula alleghaniensis	15	Yes	FAC	Total Number of Dominant
3. Acer saccharum	15	Yes	FACU	Species Across All Strata: 4 (B)
4. Fagus grandifolia	10	No	FACU	
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B)
6				That Are OBE, I AGW, OF I AG.
7.	-			Prevalence Index worksheet:
''-	55	= Total Cover		Total % Cover of: Multiply by:
50% of total cover: 27.5		total cover:	11	OBL species20 x 1 =20
Sapling/Shrub Stratum (Plot size: 15)	2070 01	total 00 vol		FACW species0 x 2 =0
1 none	0			FAC species 15 x 3 = 45
				FACU species 45 x 4 = 180
2				UPL species 5 x 5 = 25
3				85 270
4				Column Totals: (A) (B)
5				Prevalence Index = B/A = 3.17
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9.				
	0	= Total Cover		3 - Prevalence Index is ≤3.0 ¹
50% of total cover:		total cover:	0	4 - Morphological Adaptations ¹ (Provide supporting
Herb Stratum (Plot size: 5)				data in Remarks or on a separate sheet)
1 Carex prasina	20	Yes	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Liriodendron tulipifera	5	No	FACU	
3. Eurybia macrophylla	5	No	UPL	¹ 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
	30	= Total Cover		of size, and woody plants less than 3.28 ft tall.
50% of total cover:15		total cover:	6	
Woody Vine Stratum (Plot size:)				Woody vine – All woody vines greater than 3.28 ft in height.
1. none	0			neight.
	-	 -		
3				
4				Hydrophytic
5				Vegetation Present? Yes No
		= Total Cover	0	Present? Yes No
50% of total cover:0	20% of	total cover:		
Remarks: (Include photo numbers here or on a separate s	heet.)			

Sampling Point: wrae273_u

Profile Desc	ription: (Describe t	o the depth r				or confirm	the absen	ce of indica	tors.)		
Depth	Matrix		Redo	x Features	S1	. 2	- .		_		
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>		Remar	KS	
							-				
							-				
							-				
¹ Type: C=Cc	ncentration, D=Depl	etion, RM=Re	educed Matrix, MS	S=Masked	Sand Gra	ains.	² Location:	PL=Pore Lir	ning, M=Mat	rix.	
Hydric Soil I	ndicators:						Ind	icators for F	Problematic	Hydric So	oils³:
Histosol	(A1)		Dark Surface	(S7)				2 cm Muck	(A10) (MLR	A 147)	
	ipedon (A2)	-	Polyvalue Be		ce (S8) (N	ILRA 147.	148)	Coast Prair			
Black His		-	Thin Dark Su				-,	(MLRA 1		,	
	n Sulfide (A4)	-	Loamy Gleye	, ,	•	,,		Piedmont F		ils (F19)	
	Layers (A5)	-	Depleted Ma		,			(MLRA 1)o (1 10)	
	ck (A10) (LRR N)	-	Redox Dark		:6)				w Dark Surf	aca (TF12)	
	Below Dark Surface	(Δ11)	Depleted Dai				_	Other (Expl			1
	rk Surface (A12)	(A11)	Redox Depre				_	Other (Expi	aiii iii ixciiia	iko)	
	ucky Mineral (S1) (L	DD N	Iron-Mangan			DD N					
		KK N,			85 (F12) (1	LKK N,					
	147, 148)		MLRA 13	•	MIDA 40	C 400\	3,		المناف ما ما ما ما ما		
	leyed Matrix (S4)	-	Umbric Surfa					ndicators of		-	
	edox (S5)	-	Piedmont Flo					wetland hydr			1
	Matrix (S6)	-	Red Parent N	/laterial (F	21) (MLR .	A 127, 147	<u>') </u>	unless distur	bed or probl	ematic.	
Restrictive L	.ayer (if observed):										
Type:			_								
Depth (inc	ches):		_				Hydric So	oil Present?	Yes	No_	<u> </u>
Remarks:	-						1 -				
	to gravel road										
no son pit due	to graver road										



Upland data point wrae273_u facing east



Upland data point wrae273_u facing south

Project/Site: Atlantic Coast Pipeline		City/County: Randolph County Sampling Date: 7/1/2016						
Applicant/Owner: Dominion		State: WV Sampling Point: wrae272e						
Landform (hillslope, terrace, etc.): road Local relief (concave, convex, none): concave Slope (%):3								
Subregion (LRR or MLRA): N		38.58877193	Lona: -80.	17050984	Datum: WGS 1984			
Soil Map Unit Name: Gilpin-Dekalb st	ony complex, moi	st, 35 to 70 percent s	lopes	NWI classific	cation: PEM			
Are climatic / hydrologic conditions on	the site typical fo	r this time of year? Y	′es No	(If no, explain in F	Remarks.)			
Are Vegetation, Soil, c	or Hydrology	significantly distur	bed? Are "Normal	Circumstances"	oresent? Yes No			
Are Vegetation, Soil, c								
SUMMARY OF FINDINGS -								
Hydrophytic Vegetation Present?	Yes <u></u> ✓	No						
Hydric Soil Present?	Yes 🗸	No	Is the Sampled Area	Vac V	No			
Wetland Hydrology Present?		No	within a Wetland?	res	NO			
roadbed, highly disturbed								
HYDROLOGY								
Wetland Hydrology Indicators:				Secondary Indica	ators (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 (getated 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		Dry-Season Water Table (C2)				
Sediment Deposits (B2)		Recent Iron Reduction						
Drift Deposits (B3) Algal Mat or Crust (B4)		Thin Muck Surface (C Other (Explain in Rer		Saturation Visible on Aerial Imagery (C9)				
Algai Mat of Crust (B4) Iron Deposits (B5)		Other (Explain in Nei	ilaiks)	Stunted or Stressed Plants (D1) Geomorphic Position (D2)				
Inundation Visible on Aerial Ima	aerv (B7)			Shallow Aquitard (D3)				
Water-Stained Leaves (B9)	97 (7)			Microtopographic Relief (D4)				
Aquatic Fauna (B13)				FAC-Neutral Test (D5)				
Field Observations:								
Surface Water Present? Yes	No <u> </u>	Depth (inches):						
Water Table Present? Yes	✓ No	Depth (inches):	0					
	✓ No		0 Wetland H	lydrology Presei	nt? Yes <u>/</u> No			
(includes capillary fringe) Describe Recorded Data (stream ga	ugo monitoring v	vall parial photos pro	vious inspections) if ava	ilable:				
Describe Recorded Data (Stream ga	uge, monitoring w	reli, aeriai priotos, pre	evious irispections), ii ava	illable.				
Remarks:								

Sampling	Point: wrae272e_	_w
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,	Absolute	Dominant In	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?		
1 none	0		<u>.</u>	Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
·· ·				That Are OBE, I AOW, OF I AO.
2				Total Number of Dominant
3		·		Species Across All Strata: 2 (B)
4		-		Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100 (A/B)
6				
7		·		Prevalence Index worksheet:
· · ·	0	= Total Cove		Total % Cover of: Multiply by:
50% of total cover: 0		total cover:	0	OBL species85 x 1 =85
15	20 /0 01	total cover		FACW species 30 x 2 = 60
Sapling/Shrub Stratum (Plot size: 13	0			FAC species 0 x 3 = 0
1. none				
2				FACU species
3				UPL species x 5 =
4				Column Totals: (A) (B)
5				Prevalence Index = B/A = 1.26
6				Trevalence mack = B//t =
7				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 ¹
0		= Total Cove	r O	4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover:0	20% of	total cover:_		data in Remarks or on a separate sheet)
Herb Stratum (Plot size:5				Problematic Hydrophytic Vegetation ¹ (Explain)
1. Scirpus atrovirens	70	Yes	OBL	Froblematic Hydrophytic vegetation (Explain)
2. Juncus effusus	30	Yes	FACW	1
3. Carex prasina	15	No	OBL	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4				
_				Definitions of Four Vegetation Strata:
•				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6				more in diameter at breast height (DBH), regardless of
7				height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9		-		than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless
	115	= Total Cove	r	of size, and woody plants less than 3.28 ft tall.
50% of total cover:57.5		total cover:		
Woody Vine Stratum (Plot size: 30)				Woody vine – All woody vines greater than 3.28 ft in height.
1 none	0			neight.
2.				
2				
3				
4				Hydrophytic
5				Vegetation No.
		= Total Cove		Present? Yes No No
50% of total cover:0	20% of	total cover:_	0	
Remarks: (Include photo numbers here or on a separate si	neet.)			

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth	Matrix		Redo	x Features						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-3								muck no	color	
								_		
										_
							-			
								_		_
								_		
								_		
			-				-	_		-
¹ Type: C=Co	oncentration, D=Depl	etion, RM=Re	educed Matrix, MS	S=Masked	Sand Gra	ains.	² Location:	PL=Pore Lin	ing, M=Matrix	
Hydric Soil			·							ydric Soils³:
Histosol			Dark Surface	(S7)					A10) (MLRA	-
	pipedon (A2)		Polyvalue Be		e (S8) (M	ILRA 147			Redox (A16	
Black Hi			Thin Dark Su				,	(MLRA 14	•	,
	n Sulfide (A4)		Loamy Gleye			, 1-0)			oodplain Soils	: (F19)
	d Layers (A5)		Depleted Mar		-)			(MLRA 13		5 (1-15)
	ick (A10) (LRR N)		Redox Dark \$		3)				v Dark Surfac	o (TE12)
	d Below Dark Surface	(Δ11)	Depleted Dar						in in Remark	
	ark Surface (A12)	(Д11)	Redox Depre					Other (Expla	iiii iii ixeiiiaik	5)
		DD N				DD N				
	Mucky Mineral (S1) (L	KK N,	Iron-Mangan		S (F12) (I	LKK N,				
	147, 148)		MLRA 13		MI DA 42	c 400\	31	diantora of b		antation and
	Gleyed Matrix (S4)		Umbric Surfa						ydrophytic ve	-
	ledox (S5)		Piedmont Flo					-	ology must be	-
	Matrix (S6)		Red Parent N	faterial (F2	21) (MLR	A 127, 147	') L	inless disturb	ed or problen	natic.
Restrictive I	_ayer (if observed):									
Type: roc	, N		_						_	
Depth (inc	ches): <u>3</u>		_				Hydric Sc	il Present?	Yes	No
Remarks:										



Wetland data point wrae272e_w facing north



Wetland data point wrae272e_w facing west

Project/Site: Atlantic Coast Pipeline	City/County: Randolph County Sampling Date: 7/1/2016						
Applicant/Owner: Dominion	State: WV Sampling Point: wrae272						
	Section, Township, Range: No PLSS in this area						
Landform (hillslope, terrace, etc.): road Local relief (concave, convex, none): convex Slope (%):							
Subregion (LRR or MLRA): N				Datum: WGS 1984			
Soil Map Unit Name: Gilpin-Dekalb stony con	nplex, moist, 35 to 70 percent	slopes	_ NWI classificat	tion: UPL			
Are climatic / hydrologic conditions on the site							
Are Vegetation, Soil, or Hydro	logy significantly distu	rbed? Are "Normal Ci	rcumstances" pre	esent? Yes No			
Are Vegetation, Soil, or Hydro							
SUMMARY OF FINDINGS – Attach			•				
Hydrophytic Vegetation Present? Ye	es No						
	es No	Is the Sampled Area	Yes	No. V			
	es No 🗸	within a Wetland?	res				
HYDROLOGY							
Wetland Hydrology Indicators:		Se	econdary Indicato	ors (minimum of two required)			
Primary Indicators (minimum of one is require	ed; check all that apply)		Surface Soil C	racks (B6)			
Surface Water (A1)	True Aquatic Plants	(B14)	Sparsely Vegetated Concave Surface (B8)				
High Water Table (A2)	Hydrogen Sulfide Od	dor (C1)	Drainage Patterns (B10)				
Saturation (A3)	Oxidized Rhizosphe	res on Living Roots (C3)	_ Moss Trim Line	es (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)					
Drift Deposits (B3)	Thin Muck Surface (Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	Other (Explain in Re	marks)	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) FAC-Neutral Test (D5)				
Aquatic Fauna (B13)			_ FAC-Neutral 1	esi (D5)			
Field Observations: Surface Water Present? Yes	No Depth (inches):						
	No _ L Depth (inches):						
	No _ Depth (inches):		luala Dua a a	No. Voc. No. V			
(includes capillary fringe)	No _ • Depth (inches):	wetiand riyo	Irology Present?	? Yes No			
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, pro	evious inspections), if availab	ble:				
Demode							
Remarks: No hydrology							
No flydrology							

Sampling Point: wrae272_u

	Absolute	Dominant In	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?	Status	
1 Acer saccharum	15	Yes	FACU	Number of Dominant Species That Are OBL, FACW, or FAC:2 (A)
2. Betula alleghaniensis	15	Yes	FAC	That Are OBE, FACW, of FAC.
3. Liriodendron tulipifera	15	Yes	FACU	Total Number of Dominant
	10	No	FACU	Species Across All Strata: 4 (B)
4. Fagus grandifolia		INO	FACU	Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 50 (A/B)
6				(***)
7.				Prevalence Index worksheet:
	55	= Total Cove		Total % Cover of: Multiply by:
50% aftertal account 27.5		total cover:	r 11	OBL species 20 x 1 = 20
50% of total cover: 27.5	20% 01	total cover:_		FACW species 0 x 2 = 0
Sapling/Snrub Stratum (Plot size:)	•			45 45
1. none	0			FAC species X 3 =
2				FACU species x 4 =
3.				UPL species5 x 5 =25
				Column Totals: 85 (A) 270 (B)
				\ , \ , \ ,
5		·		Prevalence Index = B/A = 3.17
6				Hydrophytic Vegetation Indicators:
7		<u></u> ,		
8				1 - Rapid Test for Hydrophytic Vegetation
9.				2 - Dominance Test is >50%
5	0			3 - Prevalence Index is ≤3.0 ¹
0		= Total Cove	r O	4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover:0	20% of	total cover:_		data in Remarks or on a separate sheet)
Herb Stratum (Plot size:)				
1. Carex prasina	20	Yes	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Eurybia macrophylla	5	No	UPL	
3 Liriodendron tulipifera	5	No	FACU	¹ Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
4		-		Definitions of Four Vegetation Strata:
5				Total Mandaglada sududiancias Gia (7.0 as)
6		·		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
7				height.
8.				
0				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
	30	= Total Cove	r	of size, and woody plants less than 3.28 ft tall.
50% of total cover:15	20% of	total cover:_	6	
Woody Vine Stratum (Plot size: 30)				Woody vine – All woody vines greater than 3.28 ft in height.
1 none	0			neight.
11		·		
2				
3				
4				Hydrophytic
5.				Vegetation
	0	= Total Cove		Present? Yes No
50% of total cover:		total cover:_	_	
		total cover	1	
Remarks: (Include photo numbers here or on a separate si	neet.)			

Sampling Point: wrae272_u

Profile Description: (Describ	e to the depth	needed to document the	indicator or confirm	the ab	sence of indicators.)
Depth <u>Matrix</u>		Redox Featur			
(inches) Color (moist)	%	Color (moist) %	Type ¹ Loc ²	Text	ure Remarks
			<u> </u>		
				_	
				-	
				-	
¹ Type: C=Concentration, D=De	nletion PM-P	aduced Matrix MS-Mack	ad Sand Grains	² Locati	on: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:	spielion, Kivi=Ki	educed Matrix, Mio=Maske	eu Sanu Grains.		Indicators for Problematic Hydric Soils ³ :
-		D 1 0 ((OT)			
Histosol (A1)		Dark Surface (S7)	(00)		2 cm Muck (A10) (MLRA 147)
Histic Epipedon (A2)			face (S8) (MLRA 147,	148)	Coast Prairie Redox (A16)
Black Histic (A3)		Thin Dark Surface (S			(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 Surfa	ice (A11)	Depleted Dark Surface	ce (F7)		Other (Explain in Remarks)
Thick Dark Surface (A12)		Redox Depressions (F8)		
Sandy Mucky Mineral (S1)	(LRR N,	Iron-Manganese Mas	ses (F12) (LRR N,		
MLRA 147, 148)		MLRA 136)			
Sandy Gleyed Matrix (S4)		Umbric Surface (F13	(MLRA 136, 122)		³ Indicators of hydrophytic vegetation and
Sandy Redox (S5)			Soils (F19) (MLRA 14	18)	wetland hydrology must be present,
Stripped Matrix (S6)			(F21) (MLRA 127, 147		unless disturbed or problematic.
Restrictive Layer (if observed	1)-		(· - ·) (··· · · · · · · · · · · · · · · · ·	,	
	.,.				
Type:		_			
Depth (inches):		_		Hydri	c Soil Present? Yes No
Remarks:				•	
no soil pit due to gravel road					
,					



Upland data point wrae272_u facing north



Upland data point wrae272_u facing east

Project/Site: Atlantic Coast Pipeline		City/County: Randolph County Sampling Date: 6/27/2016						
Applicant/Owner: Dominion		State: WV Sampling Point: wrae2656						
Investigator(s): CG, SA								
Landform (hillslope, terrace, etc.): Road cut Local relief (concave, convex, none): concave Slope (%								
Subregion (LRR or MLRA): N								
Soil Map Unit Name: Udifluvents, col	obly			NWI classifi	cation: PEM			
Are climatic / hydrologic conditions or	n the site typical	for this time of year? Y	′es No	(If no, explain in F	Remarks.)			
Are Vegetation, Soil,	or Hydrology	significantly distur	bed? Are "Norma	Circumstances"	present? Yes No			
Are Vegetation, Soil,								
SUMMARY OF FINDINGS -								
					· ·			
Hydrophytic Vegetation Present? Hydric Soil Present?	Yes V	No No	Is the Sampled Area					
Wetland Hydrology Present?		No	within a Wetland?	Yes	No			
Remarks:								
HYDROLOGY								
Wetland Hydrology Indicators:				Secondary Indica	ators (minimum of two required)			
Primary Indicators (minimum of one	is required; che	eck all that apply)		Surface Soil	Cracks (B6)			
Surface Water (A1)		_ True Aquatic Plants (getated Concave Surface (B8)			
High Water Table (A2)		or (C1)	✓ Drainage Pa					
Saturation (A3)			es on Living Roots (C3)	Moss Trim L	, ,			
Water Marks (B1)		_ Presence of Reduced		Dry-Season Water Table (C2)				
Sediment Deposits (B2)		Recent Iron Reduction		Crayfish Bu				
Drift Deposits (B3) Algal Mat or Crust (B4)	_	_ Thin Muck Surface (0 _ Other (Explain in Rer		Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1)				
Iron Deposits (B5)		_ Other (Explain in Itel	namoj	Geomorphic Position (D2)				
Inundation Visible on Aerial Ima	agery (B7)			Shallow Aquitard (D3)				
Water-Stained Leaves (B9)				Microtopographic Relief (D4)				
Aquatic Fauna (B13)				FAC-Neutral Test (D5)				
Field Observations:								
		Depth (inches):						
		Depth (inches):	0					
	No	Depth (inches):	0 Wetland H	lydrology Prese	nt? Yes / No			
(includes capillary fringe) Describe Recorded Data (stream ga	auge, monitorino	well, aerial photos, pre	vious inspections), if ava	ilable:				
, ,		, ,	, ,,					
Remarks:								

Sampling F	Point: wrae265e_w
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00	Absolute	Dominant Ir		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: 30)	% Cover	Species?	Status	Number of Dominant Species
1. none				That Are OBL, FACW, or FAC:7 (A)
2				Total Number of Dominant
3				Species Across All Strata: 7 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100 (A/B)
6				
7				Prevalence Index worksheet:
		= Total Cove	r	Total % Cover of: Multiply by:
50% of total cover:0	20% of	total cover:	0	77 X 1 =
Sapling/Shrub Stratum (Plot size: 15				FACW species x 2 =
1. Fraxinus pennsylvanica	2	Yes	FACW	FAC species X3 = X3 =
2	-			FACU species
3				UPL species $0 \times 5 = 0$
4				Column Totals:137 (A)274 (B)
5				Prevalence Index = B/A = 2
6				Hydrophytic Vegetation Indicators:
7				
8				1 - Rapid Test for Hydrophytic Vegetation v 2 - Dominance Test is >50%
9.				
	2	= Total Cove	r	✓ 3 - Prevalence Index is ≤3.0 ¹
50% of total cover:1		total cover:	0.4	4 - Morphological Adaptations ¹ (Provide supporting
Herb Stratum (Plot size: 5				data in Remarks or on a separate sheet)
1. Pilea fontana	30	Yes	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Dichanthelium clandestinum	25	Yes	FAC	4
3. Viola cucullata	15	Yes	FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. Impatiens capensis	15	Yes	FACW	Definitions of Four Vegetation Strata:
5. Leersia virginica	15	Yes	FACW	Definitions of Four Vegetation Strata.
6. Chelone glabra	15	Yes	OBL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
7. Eutrochium purpureum	5	No	FAC	height.
8. Carex gynandra	5	No	OBL	
9. Scirpus atrovirens	5	No	OBL	Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
10. Eichhornia crassipes	5	No	OBL	m) tall.
11.				Herb – All herbaceous (non-woody) plants, regardless
	135	= Total Cove		of size, and woody plants less than 3.28 ft tall.
50% of total cover: 67.5		total cover:		
Woody Vine Stratum (Plot size: 30				Woody vine – All woody vines greater than 3.28 ft in height.
1. none	0			neight.
2.				
3				
4	-			
r	-			Hydrophytic
5	0	= Total Cove		Vegetation Present? Yes No
50% of total cover: 0		total cover:	0	
0070 01 total 00vc1.		total cover		
Remarks: (Include photo numbers here or on a separate si	neet.)			

Depth	Matrix			k Features	S1	. 2	T . •	5
inches) 0-12	Color (moist) 10YR 4/2	<u>%</u> 90	Color (moist) 10YR 4/6	<u>%</u> 10	Type ¹ C	Loc ²	Texture SCL	Remarks
0-12	10114/2	90	101K 4/0					
		. ———			-			-
	-							
	_	: (
	-							
	oncontration D_Dan	lation DM	— Poducod Motrix MS		Sand Cr		² Location: D	U - Poro Lining M-Matrix
	Indicators:	ietion, Rivi	=Reduced Matrix, MS	=iviaskeu	Sand Gr	airis.		L=Pore Lining, M=Matrix. ators for Problematic Hydric Soils ³ :
_ Histosol			Dark Surface	(97)				cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be		ca (SR) (N	II DA 147	· · · · · · · · · · · · · · · · · · ·	Coast Prairie Redox (A16)
	istic (A3)		Tolyvalde Be		. , .		((MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye			41, 140)	F	Piedmont Floodplain Soils (F19)
	d Layers (A5)		✓ Depleted Mat		_,		<u> </u>	(MLRA 136, 147)
	uck (A10) (LRR N)		Redox Dark S		6)		V	/ery Shallow Dark Surface (TF12)
	d Below Dark Surfac	e (A11)	Depleted Dar	•	,			Other (Explain in Remarks)
	ark Surface (A12)	, ,	Redox Depre					,
_ Sandy N	Mucky Mineral (S1) (L	RR N,	Iron-Mangane	ese Masse	es (F12) (LRR N,		
	A 147, 148)		MLRA 130					
_ Sandy G	Gleyed Matrix (S4)		Umbric Surfa	ce (F13) (I	MLRA 13	6, 122)	³ Inc	licators of hydrophytic vegetation and
_ Sandy F	Redox (S5)		Piedmont Flo	odplain So	oils (F19)	(MLRA 14	8) we	etland hydrology must be present,
_ Stripped	Matrix (S6)		Red Parent M	1aterial (F2	21) (MLR	A 127, 147) un	lless disturbed or problematic.
estrictive	Layer (if observed):							
Type:								
Depth (in	ches):						Hydric Soil	l Present? Yes No
emarks:								



Wetland data point wrae265e_w facing north



Wetland data point wrae265e_w facing east

Project/Site: Atlantic Coast Pipeline	City/	City/County: Randolph County Sampling Date: 6/27/2016					
Applicant/Owner: Dominion		State: WV Sampling Point: wrae265.					
	Section, Township, Range: No PLSS in this area						
Landform (hillslope, terrace, etc.): Road	one Slope (%): <u>15</u>						
Subregion (LRR or MLRA): N		Long: -80.17203	814 Datum: WGS 1984				
Soil Map Unit Name: Udifluvents, cobbly		N	WI classification: UPL				
Are climatic / hydrologic conditions on the site	typical for this time of year?	Yes No (If no,	explain in Remarks.)				
Are Vegetation, Soil, or Hydrol							
Are Vegetation, Soil, or Hydrol							
SUMMARY OF FINDINGS – Attach							
		<u>, , , , , , , , , , , , , , , , , , , </u>	, ,				
	es No es No	Is the Sampled Area					
	es No	within a Wetland?	Yes No				
Remarks:	140						
HYDROLOGY							
Wetland Hydrology Indicators:		Seco	ndary Indicators (minimum of two required)				
Primary Indicators (minimum of one is require	ed; check all that apply)		Surface Soil Cracks (B6)				
Surface Water (A1)		Sparsely Vegetated Concave Surface (B8)					
High Water Table (A2)	Hydrogen Sulfide O	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 Reducti						
Drift Deposits (B3)	Thin Muck Surface (Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4) Iron Deposits (B5)	Other (Explain in Re		Stunted or Stressed Plants (D1)				
Inundation Visible on Aerial Imagery (B7	7)		Geomorphic Position (D2)Shallow Aquitard (D3)				
Water-Stained Leaves (B9)	,		Microtopographic Relief (D4)				
Aquatic Fauna (B13)			FAC-Neutral Test (D5)				
Field Observations:			. ,				
Surface Water Present? Yes N	No Depth (inches):						
	No Pepth (inches):						
Saturation Present? Yes N	No Depth (inches):		ogy Present? Yes No				
(includes capillary fringe) Describe Recorded Data (stream gauge, mo	nitoring well periol photos, pr	ovious inspections) if available:					
Describe Recorded Data (Stream gauge, mo	initoring well, aerial priotos, pr	evious irispections), ii avaliable.					
Remarks:							
No hydrology present.							

Sampling Point: wrae2	265_	u
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00	Absolute	Dominant I		Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?	Status	Number of Dominant Species
1. Acer saccharum	20	Yes	FACU	That Are OBL, FACW, or FAC:1 (A)
2. Liriodendron tulipifera	10	Yes	FACU	Total Number of Deminent
3				Total Number of Dominant Species Across All Strata: 6 (B)
4	·			Openies / toross / tir ctrata.
				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 16.66666666 (A/B)
6				Prevalence Index worksheet:
7				
	30	= Total Cove		Total % Cover of: Multiply by: ORL species 0 x 1 = 0
50% of total cover: 15	20% of	total cover:_	6	ODL species
Sapling/Shrub Stratum (Plot size: 15				FACW species x 2 =
1 Quercus rubra	10	Yes	FACU	FAC species 50 x 3 = 150
2. Acer saccharum		Yes	FACU	FACU species110 x 4 =440
				UPL species
3				160 500
4				Column Totals: (A) (B)
5				Prevalence Index = B/A =3.68
6				Trevalence mack = B/Tt =
7				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 ¹
		= Total Cove		4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover: 7.5	20% of	total cover:_	3	
Herb Stratum (Plot size:5				data in Remarks or on a separate sheet)
1 Dichanthelium clandestinum	50	Yes	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Dennstaedtia punctilobula	25	Yes	FACU	
3. Potentilla simplex	15	No	FACU	¹ Indicators of hydric soil and wetland hydrology must
4 Solidago canadensis	10	No	FACU	be present, unless disturbed or problematic.
··				Definitions of Four Vegetation Strata:
5. Rubus allegheniensis	10	<u>No</u>	FACU	Tree Meady plants avaluation visco 2 in (7.0 cm) on
6. Liriodendron tulipifera	5	No	FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
7				height.
8.				
•				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
10				m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless
		= Total Cove		of size, and woody plants less than 3.28 ft tall.
50% of total cover: 57.5	20% of	total cover:_	23	Manda vine All woods vines greater than 2.20 ft in
Woody Vine Stratum (Plot size:)				Woody vine – All woody vines greater than 3.28 ft in height.
1. none	0			noight.
2		-		
3				
4				Hydrophytic
5				Vegetation
	0	= Total Cove		Present? Yes No
50% of total cover: 0		total cover:	0	
		total oover.	_	
Remarks: (Include photo numbers here or on a separate s	neet.)			

Profile Desc	ription: (Describe t	o the depth	needed to docur	nent the i	ndicator	or confirm	the abse	nce of indica	tors.)		
Depth	Matrix			x Features	S	. 2	_		_		
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>		Remar	ks	
											
17		DM Da	alica ad Matrice Mil	- Maalaa			21		NA NA-4		
	oncentration, D=Deple	etion, RIVI=RE	educed Matrix, Mi	5=IVIasked	Sand Gra	ains.		: PL=Pore Li			-:1-3.
Hydric Soil I	ndicators:						In	dicators for l	roblematic	Hydric So	oils":
Histosol		,	Dark Surface				_		(A10) (MLR		
Histic Ep	pipedon (A2)		Polyvalue Be	low Surfa	ce (S8) (N	ILRA 147,	148)	Coast Prair	ie Redox (A	16)	
Black His	stic (A3)		Thin Dark Sເ	ırface (S9)	(MLRA 1	47, 148)		(MLRA 1	147, 148)		
Hydroge	n Sulfide (A4)		Loamy Gleye	ed Matrix (F2)			_ Piedmont F	Floodplain So	oils (F19)	
	Layers (A5)		Depleted Ma		,				136, 147)	, ,	
	ck (A10) (LRR N)	•	Redox Dark		6)				w Dark Surf	ace (TF12))
	Below Dark Surface	(A11)	Depleted Da	•	•		_		lain in Rema		,
	ark Surface (A12)	(/ /	Redox Depre					_ 00. (_,,			
	lucky Mineral (S1) (L l	DD NI	Iron-Mangan			DD N					
		NN N,			55 (F12 <i>)</i> (-NN IN,					
	147, 148)		MLRA 13	•		0 400\		3			
	leyed Matrix (S4)		Umbric Surfa					³ Indicators of		-	
	edox (S5)		Piedmont Flo					wetland hyd			,
Stripped	Matrix (S6)	;	Red Parent N	∕laterial (F	21) (MLR .	A 127, 147	7)	unless distu	bed or probl	lematic.	
Restrictive L	ayer (if observed):										
Type:											
Depth (inc	shee):		_				Hydric	Soil Present?	Yes	No	~
	,iies)		_				Tiyunc .	John Fresent:		'''-	
Remarks:											
No soil pit dug	due to gravel and co	obble road.									



Upland data point wrae265_u facing west



Upland data point wrae265_u facing south

Project/Site: Atlantic Coast Pipeline		City/C	ounty: Randolph County	у	Sampling Date: 7/1/2016
Applicant/Owner: Dominion				State: WV	Sampling Point: wrae271e_w
			n, Township, Range: No		
Landform (hillslope, terrace, etc.): roa					Slope (%):3
Subregion (LRR or MLRA): N		3.58880188	Lona: -80.	16973778	Datum: WGS 1984
Soil Map Unit Name: Gilpin-Dekalb st		35 to 70 percent sl	opes	NWI classific	cation: PEM
Are climatic / hydrologic conditions or	the site typical for th	his time of year? Ye	es No	(If no, explain in R	Remarks.)
Are Vegetation, Soil,	or Hydrology	significantly disturb	oed? Are "Normal	l Circumstances" p	oresent? Yes No
Are Vegetation, Soil,					
SUMMARY OF FINDINGS -					
Hydrophytic Vegetation Present?	Yes	No			
Hydric Soil Present?	Yes V	No No	Is the Sampled Area		No
Wetland Hydrology Present?	Yes 🔽		within a Wetland?	res	NO
roadbed, highly disturbed					
HYDROLOGY					
Wetland Hydrology Indicators:				Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum of one	is required; check al	ll that apply)		Surface Soil	Cracks (B6)
Surface Water (A1)	314)		getated Concave Surface (B8)		
High Water Table (A2)		drogen Sulfide Odd		<u>✓</u> Drainage Pa	
Saturation (A3)			es on Living Roots (C3)	Moss Trim L	, ,
Water Marks (B1)		esence of Reduced			Water Table (C2)
Sediment Deposits (B2)			n in Tilled Soils (C6)	Crayfish Bur	
Drift Deposits (B3) Algal Mat or Crust (B4)		iin Muck Surface (C her (Explain in Rem			isible on Aerial Imagery (C9) stressed Plants (D1)
Algai Mat of Crust (B4) Iron Deposits (B5)	01	nei (Expiain in Ken	iaiks)		Position (D2)
Inundation Visible on Aerial Ima	agery (B7)			Shallow Aqu	
Water-Stained Leaves (B9)	97 (7)				aphic Relief (D4)
Aquatic Fauna (B13)				FAC-Neutral	
Field Observations:					
Surface Water Present? Yes	No 🖍 D	epth (inches):			
Water Table Present? Yes	<u></u> No D	epth (inches):	0		
	<u>✓</u> No D		Wetland H	Hydrology Preser	nt? Yes <u>/</u> No
(includes capillary fringe) Describe Recorded Data (stream ga	ugo monitoring woll	agrial photos pro	vious inspections) if ava	vilable:	
Describe Recorded Data (Stream ga	luge, monitoring wen	i, aeriai priotos, pre	vious irispections), ii ava	illable.	
Remarks:					

Sampling F	Point: wrae271e_	w
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,	Absolute	Dominant In	dicator	Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?		
1 none	0			Number of Dominant Species That Are OBL, FACW, or FAC:2 (A)
				That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Species Across All Strata: 2 (B)
4		· · · · · · · · · · · · · · · · · · ·		Description of Description of Organiza
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
		· · ·		That Are OBL, FACW, OF FAC (A/B)
6		· · · · · · · · · · · · · · · · · · ·		Prevalence Index worksheet:
1	0			Total % Cover of: Multiply by:
0		= Total Cover	_	05
50% of total cover: 0	20% of	total cover:	0	OBL species X I =
Sapling/Shrub Stratum (Plot size: 15)				FACW species x z =
1. none	0			FAC species x 3 =
2				FACU species0 x 4 =0
				UPL species0 x 5 =0
3				Column Totals: 115 (A) 145 (B)
4				Column Totals (A) (B)
5				Prevalence Index = B/A = 1.26
6				1 Tevalence index = B/T(=
7				Hydrophytic Vegetation Indicators:
		·		1 - Rapid Test for Hydrophytic Vegetation
8		· · · · · ·		✓ 2 - Dominance Test is >50%
9				✓ 3 - Prevalence Index is ≤3.0 ¹
		= Total Cover		4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover:0	20% of	total cover:	0	
Herb Stratum (Plot size:)				data in Remarks or on a separate sheet)
1 Scirpus atrovirens	70	Yes	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
2 Juncus effusus	30	Yes	FACW	
3. Carex prasina	15	No	OBL	¹ Indicators of hydric soil and wetland hydrology must
3. Carex prasma			OBL	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
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10		· · · · · · · · · · · · · · · · · · ·		m) tall.
11.				Harb All borbossous (non woods) plants, regardless
	115	= Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 57.5		total cover:		or size, and wesdy plants less than 8.25 it tall.
20	20 /0 01	total cover		Woody vine – All woody vines greater than 3.28 ft in
(1 lot size:	0			height.
1. <u>none</u>	0			
2		· · · · · · · · · · · · · · · · · · ·		
3				
4.		· · · · · · · · · · · · · · · · · · ·		
		· · · · · · · · · · · · · · · · · · ·		Hydrophytic
5				Vegetation Present? Yes No
0		= Total Cover		riesent: resNo
50% of total cover:0	20% of	total cover:	0	
Remarks: (Include photo numbers here or on a separate sl	1001.)			

Profile Desc	ription: (Describe t	o the depth	needed to docum	nent the in	dicator o	or confirm	the absence	e of indicate	ors.)	
Depth	Matrix		Redo	x Features						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-3								muck no	color	
								_		
										_
							-			
								_		_
								_		
								_		
			-				-	_		-
¹ Type: C=Co	oncentration, D=Depl	etion, RM=Re	educed Matrix, MS	S=Masked	Sand Gra	ains.	² Location:	PL=Pore Lin	ing, M=Matrix	
Hydric Soil			·							ydric Soils³:
Histosol			Dark Surface	(S7)					A10) (MLRA	-
	pipedon (A2)		Polyvalue Be		e (S8) (M	ILRA 147			Redox (A16	
Black Hi			Thin Dark Su				,	(MLRA 14	•	,
	n Sulfide (A4)		Loamy Gleye			, 1-0)			oodplain Soils	: (F19)
	d Layers (A5)		Depleted Mar		-)			(MLRA 13		5 (1-15)
	ick (A10) (LRR N)		Redox Dark \$		3)				v Dark Surfac	o (TE12)
	d Below Dark Surface	(Δ11)	Depleted Dar						in in Remark	
	ark Surface (A12)	(Д11)	Redox Depre					Other (Expla	iiii iii ixeiiiaik	5)
		DD N				DD N				
	Mucky Mineral (S1) (L	KK N,	Iron-Mangan		S (F12) (I	LKK N,				
	147, 148)		MLRA 13		MI DA 42	c 400\	31	diantora of b		antation and
	Gleyed Matrix (S4)		Umbric Surfa						ydrophytic ve	-
	ledox (S5)		Piedmont Flo					-	ology must be	-
	Matrix (S6)		Red Parent N	faterial (F2	21) (MLR	A 127, 147	') L	inless disturb	ed or problen	natic.
Restrictive I	_ayer (if observed):									
Type: roc			_						_	
Depth (inc	ches): <u>3</u>		_				Hydric Sc	il Present?	Yes	No
Remarks:										



Wetland data point wrae271e_w facing northeast



Wetland data point wrae271e_w facing west

Project/Site: Atlantic Coast Pipeline	City/Co	ounty: Randolph County	Sampling Date: 7/1/2016			
Applicant/Owner: Dominion			e: WV Sampling Point: wrae271_u			
		n, Township, Range: No PLSS				
Landform (hillslope, terrace, etc.): road			Slope (%): 2			
Subregion (LRR or MLRA): N			723 Datum: WGS 1984			
Soil Map Unit Name: Gilpin-Dekalb stony comp	lex, moist, 35 to 70 percent sl	opes N	IWI classification: UPL			
Are climatic / hydrologic conditions on the site t	ypical for this time of year? Ye	es No (If no,	explain in Remarks.)			
Are Vegetation, Soil, or Hydrold	gy significantly disturb	ped? Are "Normal Circu	mstances" present? Yes No			
Are Vegetation, Soil, or Hydrold						
SUMMARY OF FINDINGS – Attach						
Hydrophytic Vegetation Present? Yes	No					
	No	Is the Sampled Area	Yes No			
	No	within a Wetland?	resNo			
HYDROLOGY						
Wetland Hydrology Indicators:		Seco	ndary Indicators (minimum of two required)			
Primary Indicators (minimum of one is require	d; check all that apply)		Surface Soil Cracks (B6)			
Surface Water (A1)	314) S	Sparsely Vegetated Concave Surface (B8)				
High Water Table (A2)	Hydrogen Sulfide Odd		Drainage Patterns (B10)			
Saturation (A3)	Oxidized Rhizosphere	s on Living Roots (C3) N	oots (C3) Moss Trim Lines (B16)			
Water Marks (B1)	Presence of Reduced	Iron (C4) C	Dry-Season Water Table (C2)			
Sediment Deposits (B2)	Recent Iron Reduction		Crayfish Burrows (C8)			
Drift Deposits (B3)	Thin Muck Surface (C		Saturation Visible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	Other (Explain in Rem		Stunted or Stressed Plants (D1)			
Iron Deposits (B5)			Geomorphic Position (D2)			
Inundation Visible on Aerial Imagery (B7)			Shallow Aquitard (D3)			
Water-Stained Leaves (B9)			Aicrotopographic Relief (D4)			
Aquatic Fauna (B13)			AC-Neutral Test (D5)			
Field Observations: Surface Water Present? Yes No.	Depth (inches):					
	Depth (inches):					
	Depth (inches):		ogy Present? Yes No			
(includes capillary fringe)	Depth (inches):	wetland nydrol	ogy Present? Yes No			
Describe Recorded Data (stream gauge, mon	itoring well, aerial photos, prev	vious inspections), if available:				
Devents						
Remarks: No hydrology						
No flydrology						

Sampling Point: wrae271_u

	Absolute	Dominant I	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?	Status	Number of Dominant Species
1 Liriodendron tulipifera	15	Yes	FACU	That Are OBL, FACW, or FAC: 2 (A)
2. Betula alleghaniensis	15	Yes	FAC	That Ale OBE, I AOW, OI I AO.
3. Acer saccharum	15	Yes	FACU	Total Number of Dominant
∆ Fagus grandifolia	10	No	FACU	Species Across All Strata: (B)
"		-		Percent of Dominant Species
5				That Are OBL, FACW, or FAC: (A/B)
6				
7				Prevalence Index worksheet:
	55	= Total Cove	r	Total % Cover of: Multiply by:
50% of total cover: 27.5		total cover:	11	OBL species20 x 1 =20
15				FACW species 0 x 2 = 0
Sapling/Shrub Stratum (Plot size: 15	0			FAC species 15 x 3 = 45
1. <i>none</i>				45 400
2				FACU species x 4 =
3				UPL species x 5 =
4				Column Totals:85
5				0.47
				Prevalence Index = B/A =3.17
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				
	0	= Total Cove	r	3 - Prevalence Index is ≤3.0 ¹
50% of total cover:		total cover:_	0	4 - Morphological Adaptations ¹ (Provide supporting
Herb Stratum (Plot size: 5)				data in Remarks or on a separate sheet)
1. Carex prasina	20	Yes	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
			$\overline{}$	
2. Liriodendron tulipifera	5	No	FACU	¹ Indicators of hydric soil and wetland hydrology must
3. Eurybia macrophylla	5	No	UPL	be present, unless disturbed or problematic.
4				
5				Definitions of Four Vegetation Strata:
0		-		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
b				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				
	30	T-1-1-0		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 15		= Total Cove	_	of size, and woody plants less than 3.26 it tall.
0070 01 total 00 001.	20% 01	total cover:_		Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size:)				height.
1. none	0			
2				
3.				
4.				
				Hydrophytic
5				Vegetation Present? Yes No
		= Total Cove	•	rieseiit! ies No
50% of total cover:0	20% of	total cover:_	0	
Remarks: (Include photo numbers here or on a separate sl	heet.)			

Sampling Point: wrae271_u

Profile Desc	ription: (Describe t	o the depth	needed to docun	ent the inc	dicator o	r confirm	the absence	e of indicate	ors.)		
Depth	Matrix		Redox	r Features							
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remark	S	
							-				
								_			
								_			
								_			
							-				
								_			
								_			
	oncentration, D=Deple	etion, RM=Re	educed Matrix, MS	=Masked S	Sand Gra	ins.		PL=Pore Lin			
Hydric Soil I	ndicators:						Indi	cators for P	roblematic	Hydric Soils ³	:
Histosol	(A1)		Dark Surface	(S7)				2 cm Muck ((A10) (MLR	A 147)	
	pipedon (A2)		Polyvalue Be		(S8) (M	LRA 147.		Coast Prairie	. , .	•	
Black Hi	. , ,		Thin Dark Su					(MLRA 14	•	-,	
	n Sulfide (A4)		Loamy Gleye			, -,		Piedmont FI		ils (F19)	
	Layers (A5)		Depleted Mat		-/			(MLRA 1	•	(*)	
	ck (A10) (LRR N)		Redox Dark S)			Very Shallov		ce (TF12)	
	Below Dark Surface	(A11)	Depleted Dar					Other (Expla			
	ark Surface (A12)	(,	Redox Depre							,	
	lucky Mineral (S1) (L	RR N.	Iron-Mangane			RR N.					
	147, 148)	,	MLRA 130		· (· · -) (-	,					
	leyed Matrix (S4)		Umbric Surfa		II RA 130	5. 122)	³ lr	ndicators of h	vdrophytic v	egetation and	
	edox (S5)		Piedmont Flo					vetland hydro		-	'
	Matrix (S6)		Red Parent M					ınless disturb			
	ayer (if observed):		Real arener	iatoriai (i 2	·	1 121, 171	,	iiiiooo aiotaik	ou or proble	matio.	
	ayer (ii observea).										
Type:			_								
Depth (ind	ches):		_				Hydric So	oil Present?	Yes	No	_
Remarks:											
no soil pit due	to gravel road										



Upland data point wrae271_u facing south



Upland data point wrae271_u facing east

Project/Site: Atlantic Coast Pipeline		City/Co	ounty: Randolph County	/	Sampling Date: 7/1/2016
Applicant/Owner: Dominion				State: WV	Sampling Point: wrae270e_w
			n, Township, Range: No		
Landform (hillslope, terrace, etc.): roa					Slope (%): <u>3</u>
Subregion (LRR or MLRA): N		3.58877475	Long: -80.	16796477	Datum: WGS 1984
Soil Map Unit Name: Gilpin-Dekalb st		35 to 70 percent sl	opes	NWI classific	eation: PEM
Are climatic / hydrologic conditions or	the site typical for the	his time of year? Ye	es No	(If no, explain in R	emarks.)
Are Vegetation, Soil,	or Hydrology	significantly disturb	ped? Are "Normal	Circumstances" p	present? Yes No
Are Vegetation, Soil,					
SUMMARY OF FINDINGS -					
Hydrophytic Vegetation Present?	Yes <u></u> ✓	No			
Hydric Soil Present?	Yes V	No No	Is the Sampled Area	Vac V	No
Wetland Hydrology Present?	Yes 🔽		within a Wetland?	res	NO
roadbed, highly disturbed					
HYDROLOGY					
Wetland Hydrology Indicators:				Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum of one	is required; check a	II that apply)		Surface Soil	Cracks (B6)
Surface Water (A1)	314)		getated Concave Surface (B8)		
High Water Table (A2)		drogen Sulfide Odd		✓ Drainage Pa	
Saturation (A3)			es on Living Roots (C3)	Moss Trim L	` '
Water Marks (B1)		esence of Reduced			Water Table (C2)
Sediment Deposits (B2)			n in Tilled Soils (C6)	Crayfish Bur	
Drift Deposits (B3) Algal Mat or Crust (B4)		nin Muck Surface (C ther (Explain in Rem			isible on Aerial Imagery (C9) tressed Plants (D1)
Algai Mat of Crust (B4) Iron Deposits (B5)	0.	inei (Expiain in Ken	iains)		Position (D2)
Inundation Visible on Aerial Ima	agery (B7)			Shallow Aqu	
Water-Stained Leaves (B9)	97 (7)				aphic Relief (D4)
Aquatic Fauna (B13)				✓ FAC-Neutral	
Field Observations:					
Surface Water Present? Yes	No 🖍 D	epth (inches):			
Water Table Present? Yes	No D	epth (inches):(0		
	<u>✓</u> No D		Wetland H	lydrology Preser	nt? Yes <u>/</u> No
(includes capillary fringe) Describe Recorded Data (stream ga	ugo monitoring well	Lagrial photos prov	vious inspections) if ava	ilable:	
Describe Recorded Data (Stream ga	luge, monitoring wen	i, aeriai priotos, prev	nous inspections), ii ava	illable.	
Remarks:					

Sampling Point:	wrae270e_	_w
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	Absolute	Dominant I	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?		Number of Dominant Species
1. none	0			That Are OBL, FACW, or FAC: 2 (A)
2.				(,,
				Total Number of Dominant
3				Species Across All Strata: (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC:100 (A/B)
6				
7.				Prevalence Index worksheet:
	0	= Total Cove		Total % Cover of: Multiply by:
50% of total cover:		total cover:	0	OBL species85 x 1 =85
Sapling/Shrub Stratum (Plot size: 15)	2070 0.			FACW species 30 x 2 = 60
1. none	0			FAC species 0 x 3 = 0
				0
2				
3				UPL species
4				Column Totals: (A) (B)
5				1.26
•				Prevalence Index = B/A =1.26
				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9				✓ 3 - Prevalence Index is ≤3.0 ¹
_		= Total Cove		4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover:0	20% of	total cover:_	0	data in Remarks or on a separate sheet)
Herb Stratum (Plot size:)				
1. Scirpus atrovirens	70	Yes	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
2 Juncus effusus	30	Yes	FACW	
3. Carex prasina	15	No	OBL	¹ Indicators of hydric soil and wetland hydrology must
·				be present, unless disturbed or problematic.
				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				Senling/Shrub Woody plants avaluding vines less
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				
115	115	T 0		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 57.5		= Total Cove		of size, and woody plants less than 3.26 it tall.
0070 01 10101 00101.	20% 01	total cover:_		Woody vine – All woody vines greater than 3.28 ft in
/ voody vine dilatum (i lot size)	0			height.
1. none	0			
2				
3				
4.				Heaters had?
5.				Hydrophytic Vegetation
<u> </u>	0	= Total Cove		Present? Yes No
50% of total cover: 0		total cover:		
		total cover		
Remarks: (Include photo numbers here or on a separate sl	neet.)			

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)											
Depth	Matrix		Redo	x Features							
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	_	Remarks		
0-3								muck no	color		
							-				
											
								_		_	
								_			
			-							-	
							-				
¹ Type: C=Co	oncentration, D=Depl	etion, RM=Re	educed Matrix, MS	S=Masked	Sand Gra	ains.	² Location:	PL=Pore Lin	ing, M=Matrix		
Hydric Soil									roblematic H		
Histosol	(A1)		Dark Surface	(S7)					A10) (MLRA	-	
	pipedon (A2)		Polyvalue Be		e (S8) (M	ILRA 147			Redox (A16)		
Black Hi			Thin Dark Su				,	(MLRA 14		'	
	n Sulfide (A4)		Loamy Gleye			, 1-0)			oodplain Soils	(F19)	
	d Layers (A5)		Depleted Mar		-)			(MLRA 13		(113)	
	ick (A10) (LRR N)		Redox Dark \$		3)				v Dark Surfac	o (TE12)	
	d Below Dark Surface	(//11)	Depleted Dar						in in Remarks		
	ark Surface (A12)	(Д11)	Redox Depre					Other (Expla	iii iii ixemarks	>)	
		DD N				DD N					
	Mucky Mineral (S1) (L	KK N,	Iron-Mangan		S (F12) (I	LKK N,					
	147, 148)		MLRA 13		MI DA 42	c 400\	31	diantora of b	v dranhv tia v a	actation and	
	Gleyed Matrix (S4)		Umbric Surfa						ydrophytic ve	-	
	ledox (S5)		Piedmont Flo					-	ology must be	-	
	Matrix (S6)		Red Parent N	faterial (F2	21) (MLR	A 127, 147) U	inless disturb	ed or problem	natic.	
Restrictive I	_ayer (if observed):										
Type: roc	,		_								
Depth (inc	ches): <u>3</u>		_				Hydric So	il Present?	Yes	No	
Remarks:											



Wetland data point wrae270e_w facing south



Wetland data point wrae270e_w facing west

Project/Site: Atlantic Coast Pi	ipeline	City/0	County: Randolph County		Sampling Date: 7/1/2016				
Applicant/Owner: Dominion		•	,		Sampling Point: wrae270_u				
Investigator(s): CG, SA		Section	on, Township, Range: No	-					
Landform (hillslope, terrace, e									
Subregion (LRR or MLRA): N					Datum: WGS 1984				
Soil Map Unit Name: Gilpin-D		_ Latex moist 35 to 70 percent s	lones	NDA/I -I'C-	Datum				
Are climatic / hydrologic condi		•							
Are Vegetation, Soil	, or Hydrolog	y significantly distu	bed? Are "Normal	Circumstances" p	resent? Yes No				
Are Vegetation, Soil _	, or Hydrolog	y naturally problem	atic? (If needed, e	xplain any answei	rs in Remarks.)				
SUMMARY OF FINDIN	IGS – Attach s	ite map showing san	npling point locatio	ns, transects	, important features, etc.				
Hydrophytic Vegetation Pres	cent? Vec	No_ 🗸							
Hydric Soil Present?		No 🗸	Is the Sampled Area	V	No				
Wetland Hydrology Present?		No 🗸	within a Wetland?	Yes	NO				
Remarks:									
HYDROLOGY									
Wetland Hydrology Indicat	tors:			Secondary Indica	tors (minimum of two required)				
Primary Indicators (minimum		: check all that apply)		Surface Soil Cracks (B6)					
Surface Water (A1)	<u> </u>	True Aquatic Plants (<u> </u>	Sparsely Vegetated Concave Surface (B8)					
High Water Table (A2)		or (C1)	Drainage Patterns (B10)						
Saturation (A3)		es on Living Roots (C3)	Roots (C3) Moss Trim Lines (B16)						
Water Marks (B1)		Presence of Reduce		Dry-Season Water Table (C2)					
Sediment Deposits (B2)	1	Recent Iron Reduction	on in Tilled Soils (C6)	Crayfish Burr	ows (C8)				
Drift Deposits (B3)		Thin Muck Surface (0		Saturation Visible on Aerial Imagery (C9)					
Algal Mat or Crust (B4)		Other (Explain in Rei	marks)		ressed Plants (D1)				
Iron Deposits (B5)				Geomorphic	· ·				
Inundation Visible on Ae				Shallow Aqui					
Water-Stained Leaves (В9)				phic Relief (D4)				
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)				
Field Observations: Surface Water Present?	Vos No	Depth (inches):							
Water Table Present?		Depth (inches):							
Saturation Present?		Depth (inches):		ydrology Presen	t? Yes No				
(includes capillary fringe)					t: les No				
Describe Recorded Data (str	ream gauge, monito	oring well, aerial photos, pre	evious inspections), if avai	ilable:					
Remarks:									
No hydrology									
1									

Sampling Point: wrae270_u

	Absolute	Dominant I	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?	Status	Number of Dominant Species
1 Acer saccharum	15	Yes	FACU	That Are OBL, FACW, or FAC:2 (A)
2. Betula alleghaniensis	15	Yes	FAC	That Ald OBE, I AOW, OI I AO.
3. Liriodendron tulipifera	15	Yes	FACU	Total Number of Dominant
	10	No	FACU	Species Across All Strata: 4 (B)
4. Fagus grandifolia			1700	Percent of Dominant Species
5				That Are OBL, FACW, or FAC:50 (A/B)
6				
7				Prevalence Index worksheet:
	55	= Total Cove	r	Total % Cover of: Multiply by:
50% of total cover: 27.5		total cover:	11	OBL species20 x 1 =20
Sapling/Shrub Stratum (Plot size: 15)				FACW species 0 x 2 = 0
1. none	0			FAC species 15 x 3 = 45
				FACU species 45 x 4 = 180
2				5 25
3				UPL species $\frac{5}{85}$ x 5 = $\frac{25}{270}$
4				Column Totals: (A) (B)
5				2.17
				Prevalence Index = B/A =3.17
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 ¹
	0	= Total Cove	r	
50% of total cover:		total cover:_	0	4 - Morphological Adaptations ¹ (Provide supporting
Herb Stratum (Plot size: 5)		_		data in Remarks or on a separate sheet)
1. Carex prasina	20	Yes	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
		No	UPL	
2. Eurybia macrophylla				¹ Indicators of hydric soil and wetland hydrology must
3. Liriodendron tulipifera	5	No	FACU	be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				Definitions of Four Vegetation offata.
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
o				more in diameter at breast height (DBH), regardless of
1				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
	30	= Total Cove		of size, and woody plants less than 3.28 ft tall.
50% of total cover: 15		total cover:	_	or ores, and noosy planto loss than ores it tam
Woody Vine Stratum (Plot size: 30)	2070 01	total oover		Woody vine – All woody vines greater than 3.28 ft in
1 none	0			height.
1. Hone				
2				
3				
4.				
5.				Hydrophytic Vegetation
<u> </u>	0	= Total Cove		Present? Yes No
50% of total cover: 0		total cover:	•	
0070 01 total 00VC1.		lotal cover	_	
Remarks: (Include photo numbers here or on a separate sl	neet.)			

Sampling Point: wrae270_u

Profile Desc	ription: (Describe t	o the depth r				or confirm	the absen	ce of indica	tors.)		
Depth	Matrix		Redo	x Features	S1	. 2	- .		_		
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>		Remar	KS	
							-				
							-				
							-				
¹ Type: C=Co	ncentration, D=Depl	etion, RM=Re	educed Matrix, MS	S=Masked	Sand Gra	ains.	² Location:	PL=Pore Lir	ning, M=Mat	rix.	
Hydric Soil I	ndicators:						Ind	icators for F	Problematic	Hydric So	oils³:
Histosol	(A1)		Dark Surface	(S7)				2 cm Muck	(A10) (MLR	A 147)	
	ipedon (A2)	-	Polyvalue Be		ce (S8) (N	ILRA 147.	148)	Coast Prair			
Black His		-	Thin Dark Su				-,	(MLRA 1		,	
	n Sulfide (A4)	-	Loamy Gleye	, ,	•	,,		Piedmont F		ils (F19)	
	Layers (A5)	-	Depleted Ma		,			(MLRA 1)o (1 10)	
	ck (A10) (LRR N)	-	Redox Dark		:6)				w Dark Surf	aca (TF12)	
	Below Dark Surface	(Δ11)	Depleted Dai				_	Other (Expl			1
	rk Surface (A12)	(A11)	Redox Depre				_	Other (Expi	aiii iii ixciiia	iko)	
	ucky Mineral (S1) (L	DD N	Iron-Mangan			DD N					
		KK N,			85 (F12) (1	LKK N,					
	147, 148)		MLRA 13	•	MIDA 40	C 400\	3,		المناف ما ما ما ما ما		
	leyed Matrix (S4)	-	Umbric Surfa					ndicators of		-	
	edox (S5)	-	Piedmont Flo					wetland hydr			1
	Matrix (S6)	-	Red Parent N	/laterial (F	21) (MLR .	A 127, 147	<u>') </u>	unless distur	bed or probl	ematic.	
Restrictive L	.ayer (if observed):										
Type:			_								
Depth (inc	ches):		_				Hydric So	oil Present?	Yes	No_	<u> </u>
Remarks:	-						1 -				
	to gravel road										
no son pit due	to graver road										



Upland data point wrae270_u facing north



Upland data point wrae270_u facing east

Project/Site: Atlantic Coast Pipeline		City/C	ounty: Randolph County	/	Sampling Date: 7/1/2016				
Applicant/Owner: Dominion	State: WV Sampling Point: wrae2								
			n, Township, Range: No						
Landform (hillslope, terrace, etc.): roa					Slope (%): <u>3</u>				
Subregion (LRR or MLRA): N					Datum: WGS 1984				
Soil Map Unit Name: Gilpin-Dekalb st		, 35 to 70 percent sl	opes	NWI classific	eation: PEM				
Are climatic / hydrologic conditions or	the site typical for t	his time of year? You	es No	(If no, explain in R	emarks.)				
Are Vegetation, Soil,	or Hydrology	significantly disturk	oed? Are "Normal	l Circumstances" p	present? Yes No				
Are Vegetation, Soil,									
SUMMARY OF FINDINGS -									
Hydrophytic Vegetation Present?	Yes <u>✓</u>	No							
Hydric Soil Present?	Yes V	No No	Is the Sampled Area	Vac V	No				
Wetland Hydrology Present?	Yes 🔽		within a Wetland?	res	NO				
roadbed, highly disturbed									
HYDROLOGY									
Wetland Hydrology Indicators:				Secondary Indica	ators (minimum of two required)				
Primary Indicators (minimum of one	is required; check a	II that apply)		Surface Soil Cracks (B6)					
Surface Water (A1)		ue Aquatic Plants (E		Sparsely Vegetated Concave Surface (B8)Drainage Patterns (B10)					
High Water Table (A2)		ydrogen Sulfide Odd							
Saturation (A3)	es on Living Roots (C3)								
Water Marks (B1)		resence of Reduced			Water Table (C2)				
Sediment Deposits (B2)			n in Tilled Soils (C6)	Crayfish Bur					
Drift Deposits (B3) Algal Mat or Crust (B4)		nin Muck Surface (C ther (Explain in Rem			isible on Aerial Imagery (C9)				
Algai Mat of Crust (B4) Iron Deposits (B5)	0	ilei (Explaiii ili Keli	iaiks)	Stunted or Stressed Plants (D1) Geomorphic Position (D2)					
Inundation Visible on Aerial Ima	agery (B7)			Shallow Aquitard (D3)					
Water-Stained Leaves (B9)	97 (7)			Microtopographic Relief (D4)					
Aquatic Fauna (B13)				✓ FAC-Neutral					
Field Observations:									
Surface Water Present? Yes	No 🖍 D	epth (inches):							
Water Table Present? Yes	No D	epth (inches):(0						
	No D		Wetland H	nd Hydrology Present? Yes No					
(includes capillary fringe) Describe Recorded Data (stream ga	ugo monitoring wol	Lagrial photos prov	vious inspections) if ava	vilable:					
Describe Necorded Data (Stream ga	age, monitoring wer	i, aeriai priotos, prev	vious irispections), ii ava	mable.					
Remarks:									

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
ree Stratum (Plot size: 30) none	% Cover 0	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC: 2	(A)
				Total Number of Dominant	
		· ——		Species Across All Strata:	(B)
				Percent of Dominant Species	
				That Are OBL, FACW, or FAC:100	(A/B
<u>. </u>				Prevalence Index worksheet:	
		= Total Cov	_	Total % Cover of: Multiply by: OBL species 85 x 1 = 85	
50% of total cover:	20% of	total cover:	0	30 x 1 =	-
apling/Shrub Stratum (Plot size: 15)				FACW species x 2 =	_
none	0			FAC species X3 =	_
<u>-</u>				FACU species 0 x 4 = 0	_
k <u> </u>				UPL species x 5 = 0	_
				Column Totals:115 (A)145	_ (B)
				4.00	
				Prevalence Index = B/A =1.26	=
i				Hydrophytic Vegetation Indicators:	
	_			1 - Rapid Test for Hydrophytic Vegetation	
				✓ 2 - Dominance Test is >50%	
				✓ 3 - Prevalence Index is ≤3.0 ¹	
		= Total Cov	er 0	4 - Morphological Adaptations ¹ (Provide sup	portin
50% of total cover:0	20% of	total cover:		data in Remarks or on a separate sheet)	
Herb Stratum (Plot size: 5				Problematic Hydrophytic Vegetation ¹ (Explai	n)
Scirpus atrovirens	70	Yes	OBL	1 Toblematic Trydrophytic Vegetation (Explain	11)
Juncus effusus	30	Yes	FACW	11 adia atau ang tikan dalam ang tikan dan dalam ang tikan dal	
3. Carex prasina	15	No	OBL	¹ Indicators of hydric soil and wetland hydrology n be present, unless disturbed or problematic.	nust
l.				Definitions of Four Vegetation Strata:	
i				Definitions of Four Vegetation Strata.	
j.				Tree – Woody plants, excluding vines, 3 in. (7.6	
,	-			more in diameter at breast height (DBH), regardle height.	ess of
	_			noight.	
	- (Sapling/Shrub – Woody plants, excluding vines,	less
)	_			than 3 in. DBH and greater than or equal to 3.28	ft (1
0				m) tall.	
1	115			Herb - All herbaceous (non-woody) plants, regard	rdless
57		= Total Cov		of size, and woody plants less than 3.28 ft tall.	
50% of total cover:57	. <u>o</u> 20% of	total cover:		Woody vine – All woody vines greater than 3.28	ft in
Voody Vine Stratum (Plot size:)				height.	
none	0				
	_				
J	_				
k <u> </u>				the decoder	
i.				Hydrophytic Vegetation	
	•	= Total Cov		Present? Yes No	
50% of total cover:		total cover:	•		
		10101 00101.			
	sneet.)				
Remarks: (Include photo numbers here or on a separate					
Remarks: (Include photo numbers here or on a separate					
Remarks: (Include photo numbers here or on a separate					

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)											
Depth	Matrix		Redo	x Features							
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	_	Remarks		
0-3								muck no	color		
							-				
											
								_			
								_			
			-							-	
							-				
¹ Type: C=Co	oncentration, D=Depl	etion, RM=Re	educed Matrix, MS	S=Masked	Sand Gra	ains.	² Location:	PL=Pore Lin	ing, M=Matrix		
Hydric Soil									roblematic H		
Histosol	(A1)		Dark Surface	(S7)					A10) (MLRA	-	
	pipedon (A2)		Polyvalue Be		e (S8) (M	ILRA 147			Redox (A16)		
Black Hi			Thin Dark Su				,	(MLRA 14		'	
	n Sulfide (A4)		Loamy Gleye			, 1-0)			oodplain Soils	(F19)	
	d Layers (A5)		Depleted Mar		-)			(MLRA 13		(113)	
	ick (A10) (LRR N)		Redox Dark \$		3)				v Dark Surfac	o (TE12)	
	d Below Dark Surface	(//11)	Depleted Dar						in in Remarks		
	ark Surface (A12)	(Д11)	Redox Depre					Other (Expla	iii iii ixemarks	P)	
		DD N				DD N					
	Mucky Mineral (S1) (L	KK N,	Iron-Mangan		S (F12) (I	LKK N,					
	147, 148)		MLRA 13		MI DA 42	c 400\	31	diantora of b	v dranhv tia v a	actation and	
	Gleyed Matrix (S4)		Umbric Surfa						ydrophytic ve	-	
	ledox (S5)		Piedmont Flo					-	ology must be	-	
	Matrix (S6)		Red Parent N	faterial (F2	21) (MLR	A 127, 147) U	inless disturb	ed or problem	natic.	
Restrictive I	_ayer (if observed):										
Type: roc	,		_								
Depth (inc	ches): <u>3</u>		_				Hydric So	il Present?	Yes	No	
Remarks:											



Wetland data point wrae269e_w facing south



Wetland data point wrae269e_w facing west

Project/Site: Atlantic Coast Pipeline		C	City/County: Randolph	County	Sampling Date: 7/1/2016			
Applicant/Owner: Dominion	State: WV Sampling Point: wrae269_u							
Investigator(s): CG, SA Section, Township, Range: No PLSS in this area								
Landform (hillslope, terrace, etc.): road Local relief (concave, convex, none): convex Slope (%):2								
Subregion (LRR or MLRA): N					Datum: WGS 1984			
Soil Map Unit Name: Gilpin-Dekalb stony	complex, mo	oist, 35 to 70 perce	ent slopes	NWI classifi	cation: UPL			
Are climatic / hydrologic conditions on the	site typical fe	or this time of yea	ır? Yes <u> </u>	(If no, explain in F	Remarks.)			
Are Vegetation, Soil, or Hy	ydrology 🗸	significantly d	disturbed? Are "N	Normal Circumstances"	present? Yes No			
Are Vegetation, Soil, or Hy								
SUMMARY OF FINDINGS – Att								
Hydrophytic Vegetation Present?	Yes	No 🗸						
Hydric Soil Present?		No 🗸	Is the Sampled		No			
Wetland Hydrology Present?	Yes		within a Wetland	u? fes	NO			
HYDROLOGY								
Wetland Hydrology Indicators:				Secondary Indicate	ators (minimum of two required)			
Primary Indicators (minimum of one is re	equired; chec	k all that apply)		Surface Soil	Cracks (B6)			
Surface Water (A1)		True Aquatic Pla	nts (B14)	Sparsely Vegetated Concave Surface (B8)				
High Water Table (A2)		Hydrogen Sulfide		-	atterns (B10)			
Saturation (A3)			pheres on Living Roots					
Water Marks (B1)		Presence of Red		-	Water Table (C2)			
Sediment Deposits (B2)			uction in Tilled Soils (C					
Drift Deposits (B3)	_	Thin Muck Surfa		Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4) Iron Deposits (B5)	_	Other (Explain in	i Remarks)	Stunted or Stressed Plants (D1) Geomorphic Position (D2)				
Inundation Visible on Aerial Imagery	/ (B7)			Geomorphic Position (D2) 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):						
		_ Depth (inches):		Wetland Hydrology Present? Yes No				
Describe Recorded Data (stream gauge	, monitoring v	well, aerial photos	s, previous inspections)	, if available:				
Remarks:								
No hydrology								
l, a. o.log,								

Sampling Point: wrae269_u

	Absolute	Dominant Ir	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size:)			Status	Number of Dominant Species
1 Liriodendron tulipifera	15	Yes	FACU	That Are OBL, FACW, or FAC:2 (A)
2. Betula alleghaniensis	15	Yes	FAC	That Aid OBE, I AOW, OI I AO.
3. Acer saccharum	15	Yes	FACU	Total Number of Dominant
4 Fagus grandifolia	10	No	FACU	Species Across All Strata:4 (B)
				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7				
		= Total Cover		Total % Cover of: Multiply by:
50% of total cover: 27.5	20% of	total cover:	11	OBL species X I =
Sapling/Shrub Stratum (Plot size: 15				FACW species x 2 =
1. none	0			FAC species15
2				FACU species45
				UPL species5 x 5 =25
				Column Totals: 85 (A) 270 (B)
4				(2)
5				Prevalence Index = B/A =3.17
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				
	0	= Total Cover	•	3 - Prevalence Index is ≤3.0 ¹
50% of total cover:		total cover:	0	4 - Morphological Adaptations ¹ (Provide supporting
Herb Stratum (Plot size: 5)	_			data in Remarks or on a separate sheet)
1. Carex prasina	20	Yes	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Carex prasina	20	Yes	OBL	
3. Liriodendron tulipifera		No	FACU	¹ Indicators of hydric soil and wetland hydrology must
	5			be present, unless disturbed or problematic.
4. Liriodendron tulipifera		No_	FACU	Definitions of Four Vegetation Strata:
5. Eurybia macrophylla	5	No	UPL	- W
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.
10				,
11	30			Herb – All herbaceous (non-woody) plants, regardless
50% of total cover: 15		= Total Cover	6	of size, and woody plants less than 3.28 ft tall.
0070 01 10101 00 001.	20% of	total cover:		Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size:)	0			height.
1. ^{none}	0			
2				
3				
4				Livelyanhydia
5.				Hydrophytic Vegetation
	0	= Total Cover		Present? Yes No
50% of total cover: 0		total cover:_	_	
Remarks: (Include photo numbers here or on a separate si				
Tremarks. (Include prioto numbers here of our a separate si	icet.)			

Sampling Point: wrae269_u

	ription: (Describe t	o the depth r				or confirm	the absen	nce of indica	tors.)		
Depth	Matrix		Redo	x Features	S1	. 2			_		
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	<u> </u>	Remar	ks	
							-				
							-				
							-				
¹ Type: C=Co	ncentration, D=Depl	etion, RM=Re	duced Matrix, MS	S=Masked	Sand Gra	ains.	² Location:	: PL=Pore Lir	ning, M=Mat	rix.	
Hydric Soil I							Inc	dicators for F	Problematic	Hydric Sc	oils³:
Histosol	(A1)		Dark Surface	(S7)				2 cm Muck	(A10) (MLR	A 147)	
	ipedon (A2)	-	Polyvalue Be		ce (S8) (N	II RA 147.	148)	Coast Prair			
Black His		-	Tory value Be					_ COAST TAIL		,	
	n Sulfide (A4)	-	Loamy Gleye	, ,	•	,0)			Toodplain Sc	nils (F10)	
	Layers (A5)	-	Loanly Gleye Depleted Ma		1 2)		_	_ 1 ledillolit 1 (MLRA 1)iis (1 1 <i>3)</i>	
	ck (A10) (LRR N)	-	Depleted Ma Redox Dark		·c)				w Dark Surf	000 (TE12)	
	Below Dark Surface	.(Δ11)					-	_ Very Shallo _ Other (Expl			
		(A11) _	Depleted Date					_ Other (Expi	alli III Kellia	iks)	
	rk Surface (A12)	- -	Redox Depre			DD N					
	ucky Mineral (S1) (L	KK N,	Iron-Mangan		es (F12) (I	LKK N,					
	147, 148)		MLRA 13	•			3				
	leyed Matrix (S4)	-	Umbric Surfa					Indicators of		-	
	edox (S5)	-	Piedmont Flo					wetland hydr			
	Matrix (S6)	-	Red Parent N	/laterial (F	21) (MLR .	A 127, 147	')	unless distur	bed or probl	ematic.	
Restrictive L	ayer (if observed):										
Type:			_								
Depth (inc	:hes):						Hydric S	Soil Present?	Yes	No	~
Remarks:			_				, , , ,				
	4										
no son pit due	to gravel road										



Upland data point wrae269_u facing north



Upland data point wrae269_u facing east

Project/Site: Atlantic Coast Pipeline		City/C	County: Randolph County	1	Sampling Date: 6/1/2016		
Applicant/Owner: Dominion	State: WV Sampling Point: wrae235e.						
Investigator(s): CG, RP Section, Township, Range: No PLSS in this area							
Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): concave Slope (%): 2							
Subregion (LRR or MLRA): N	Long: 38.5	8254914	Datum: WGS 1984				
Soil Map Unit Name: Gilpin-Dekalb st	Subregion (LRR or MLRA): N Lat: -80.15735947 Long: 38.58254914 Datum: WGS 1984 Soil Map Unit Name: Gilpin-Dekalb stony complex, moist, 15 to 35 percent slopes NWI classification: PEM						
Are climatic / hydrologic conditions on	the site typical fo	or this time of year? Y	′es No	(If no, explain in I	Remarks.)		
Are Vegetation, Soil,	or Hydrology	significantly distur	bed? Are "Normal	Circumstances"	present? Yes No		
Are Vegetation, Soil,							
SUMMARY OF FINDINGS -							
Hydronhytic Vegetation Present?	lydrophytic Vegetation Present? Yes No Is the Sampled Area						
Hydric Soil Present?	Yes V	No No			No		
Wetland Hydrology Present?		No	within a Wetland?	Yes	NO		
Remarks:							
HYDROLOGY							
Wetland Hydrology Indicators:				Secondary Indic	ators (minimum of two required)		
Primary Indicators (minimum of one	is required; checl	call that apply)		Surface Soi	Cracks (B6)		
Surface Water (A1)	(B14)	Sparsely Ve	getated Concave Surface (B8)				
✓ High Water Table (A2)		Hydrogen Sulfide Od	or (C1)	Drainage Pa	atterns (B10)		
Saturation (A3)		Oxidized Rhizospher	es on Living Roots (C3)	Moss Trim L	Lines (B16)		
Water Marks (B1)		Presence of Reduced	d Iron (C4)	Dry-Season	Water Table (C2)		
Sediment Deposits (B2)		Recent Iron Reduction	on in Tilled Soils (C6)	Crayfish Bu	rrows (C8)		
Drift Deposits (B3)		Thin Muck Surface (0			isible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)		Other (Explain in Rer	marks)	Stunted or Stressed Plants (D1)			
Iron Deposits (B5)				Geomorphic Position (D2)			
Inundation Visible on Aerial Ima	gery (B7)			Shallow Aquitard (D3)			
Water-Stained Leaves (B9)				Microtopographic Relief (D4)			
Aquatic Fauna (B13)				FAC-Neutra	l Test (D5)		
Field Observations:							
		Depth (inches):	0				
	∨ No						
	✓ No	Depth (inches):	0 Wetland H	lydrology Prese	nt? Yes V No		
(includes capillary fringe) Describe Recorded Data (stream ga	uge, monitoring v	vell, aerial photos, pre	evious inspections), if ava	ilable:			
Remarks:							
Remarks.							

ree Stratum (Plot size:30)	Absolute	Dominant	Indicator	Dominance Test worksheet:
none	% Cover 0	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:1 (A)
				Total Number of Dominant
				Species Across All Strata: (B)
	-	· 		Percent of Dominant Species
·				That Are OBL, FACW, or FAC: 100 (A/B
•				Prevalence Index worksheet:
·		· <u></u>		Total % Cover of: Multiply by:
		= Total Cove	_	70 70
50% of total cover:0	20% of	total cover:	0	35 70
Sapling/Shrub Stratum (Plot size: 15)				FACW species X Z =
none	0			FAC species X3 =
•				FACU species X 4 = X
·				UPL species $0 \times 5 = 0$
				Column Totals:(A)(B)
	-			1 22
				Prevalence Index = B/A =1.33
				Hydrophytic Vegetation Indicators:
<u>. </u>				1 - Rapid Test for Hydrophytic Vegetation
· <u> </u>	-			✓ 2 - Dominance Test is >50%
	0	·		✓ 3 - Prevalence Index is ≤3.0 ¹
0		= Total Cove	er O	4 - Morphological Adaptations ¹ (Provide supportin
50% of total cover:0	20% of	total cover:		data in Remarks or on a separate sheet)
lerb Stratum (Plot size: 5	70			Problematic Hydrophytic Vegetation ¹ (Explain)
Carex lupulina	70	Yes	OBL	robiematic riyatophytic regetation (Explain)
Viola cucullata	20	No	FACW	1 Indicators of hydric call and watland hydrology must
Leersia virginica	10	No	FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
_ Fraxinus pennsylvanica	5	No	FACW	Definitions of Four Vegetation Strata:
<u>. </u>				Definitions of Four Vegetation Grata.
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) o
	-			more in diameter at breast height (DBH), regardless of height.
				Holghi.
•	·	· 		Sapling/Shrub – Woody plants, excluding vines, less
•	-			than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
0	-	· 		ini) taii.
1	105			Herb - All herbaceous (non-woody) plants, regardless
52.1		= Total Cove		of size, and woody plants less than 3.28 ft tall.
50% of total cover:52.9	20% of	total cover:		Woody vine – All woody vines greater than 3.28 ft in
Voody Vine Stratum (Plot size:)	•			height.
none	0			
4				
•				Hydrophytic Vegetation
	0	= Total Cove		Present? Yes No No
	-	- Total Cove	5 1	
	20% of	total cover:	0	

	cription: (Describe t	o the de				or confirm	the absence	e of indicators.)
Depth	Matrix (acciet)	0/	Redo	x Features	S 1	12	T t	Demande
(inches) 0-16	Color (moist) 10YR 2/1	<u>%</u> 90	Color (moist) 10YR 5/6	<u>%</u> 10	Type ¹ C	Loc ²	Texture SCL	Remarks
0-10	1011 2/1		1011 3/0			IVI		
					-			
					-	· ——		
					-	·		
	· ———				-		-	
			· -		·	· ·		
			·			. ——		
			·					
Type: C=C	Concentration, D=Deple	etion. RM	1=Reduced Matrix, MS	S=Masked	Sand Gr	ains.	² Location: F	PL=Pore Lining, M=Matrix.
	Indicators:	<i>y</i> ,				<u></u>		cators for Problematic Hydric Soils ³ :
-			Dark Surface	(97)				
Histoso	pipedon (A2)		Polyvalue Be	. ,	CO (SO) /B	AI DA 147		2 cm Muck (A10) (MLRA 147) Coast Prairie Redox (A16)
	listic (A3)		Polyvalue Be				1+0)	
	en Sulfide (A4)		Inin Dark Su Loamy Gleye			147, 140)		(MLRA 147, 148) Piedmont Floodplain Soils (F19)
	ed Layers (A5)		Depleted Ma		F2)		'	
	uck (A10) (LRR N)		✓ Redox Dark	. ,	-6)		,	(MLRA 136, 147)
	ed Below Dark Surface	(111)	Depleted Dai	•	,			Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
	ark Surface (A12)	(A11)	Redox Depre				<u> </u>	Other (Explain in Remarks)
		DD NI	Iron-Mangan			I DD N		
	Mucky Mineral (S1) (L A 147, 148)	XX IV,	MLRA 13		es (F12) (LKK N,		
			Umbric Surfa	•	MIDA 12	e 122\	3 _{lp} .	dicators of hydrophytic vegetation and
	Gleyed Matrix (S4) Redox (S5)		Piedmont Flo					
	d Matrix (S6)		Red Parent N					etland hydrology must be present, nless disturbed or problematic.
	Layer (if observed):		Red Falelit is	nateriai (F	ZI) (WILK	A 121, 141) ui	niess disturbed of problematic.
	Layer (ii observed).							
Type:								
Depth (ir	nches):						Hydric Soi	il Present? Yes No
Remarks:								



Wetland data point wrae235e_w facing north



Wetland data point wrae235e_w facing south

Project/Site: Atlantic Coast Pipeline		City/0	County: Randolph County	/	Sampling Date: 6/1/2016			
Applicant/Owner: Dominion		State: WV Sampling Point: wrae235_u						
Investigator(s): CG, RP Section, Township, Range: No PLSS in this area								
Landform (hillslope, terrace, etc.): slope Local relief (concave, convex, none): convex Slope (%): 10								
	Subregion (LRR or MLRA): N Lat: -80.15742695 Long: 38.58257608 Datum: \(\)							
Soil Map Unit Name: Gilpin-Dekalb stony complex, moist, 15 to 35 percent slopes NWI classification: UPL								
Are climatic / hydrologic conditions on the	ne site typical fo	or this time of year?	res No	(If no, explain in F	Remarks.)			
Are Vegetation, Soil, or	Hydrology	significantly distu	rbed? Are "Normal	Circumstances"	present? Yes No			
Are Vegetation, Soil, or								
SUMMARY OF FINDINGS – A								
Hydrophytic Vegetation Present?	Yes	No 🗸						
Hydric Soil Present?		No 🗸	Is the Sampled Area	Vaa	No 🗸			
Wetland Hydrology Present?	Yes		within a Wetland?	res	NO			
HYDROLOGY								
Wetland Hydrology Indicators:				Secondary Indica	ators (minimum of two required)			
Primary Indicators (minimum of one is	required; chec		Surface Soil Cracks (B6)					
Surface Water (A1)	_	(B14)	Sparsely Ve	getated Concave Surface (B8)				
High Water Table (A2)		Hydrogen Sulfide Od	lor (C1)	Drainage Pa	atterns (B10)			
Saturation (A3)			• ,	Moss Trim L	ines (B16)			
Water Marks (B1)		Presence of Reduce			Water Table (C2)			
Sediment Deposits (B2)		Recent Iron Reduction		Crayfish Bur				
Drift Deposits (B3)		Thin Muck Surface (Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	_	Other (Explain in Re	marks)	Stunted or Stressed Plants (D1)				
Iron Deposits (B5)	m, (D7)			Geomorphic Position (D2) Shallow Aquitard (D3)				
Inundation Visible on Aerial ImageWater-Stained Leaves (B9)	яу (Б7)			Shallow Aquitard (D3) Microtopographic Relief (D4)				
Aquatic Fauna (B13)				Microtopographic Relief (D4) FAC-Neutral Test (D5)				
Field Observations:					1 1001 (20)			
	No 🗸	_ Depth (inches):						
		Depth (inches):						
		Depth (inches):		Wetland Hydrology Present? Yes No_ ✓				
(includes capillary fringe)					100			
Describe Recorded Data (stream gaug	je, monitoring v	well, aerial photos, pre	evious inspections), if ava	ilable:				
Remarks:								
No hydrology present								
3 63 1								

Sampling Point, miggzog_g	Sampling	Point: wrae235_	u
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	Absolute	Dominant In	dicator	Dominance Test worksheet:
Tree Stratum (Plot size:)			Status	Number of Dominant Species
1. Acer saccharum	50	Yes	FACU	That Are OBL, FACW, or FAC:2 (A)
2. Betula populifolia	20	Yes	FAC	Total Number of Dominant
3. Tsuga canadensis	10	No	FACU	Species Across All Strata: 5 (B)
4. Acer pensylvanicum	10	No	FACU	Barrant of Barrian of Canada
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 40 (A/B)
6				That Ald OBE, I AOW, OF I AO.
7.				Prevalence Index worksheet:
	90	= Total Cover		Total % Cover of: Multiply by:
50% of total cover: 45		total cover:	18	OBL species0 x 1 =0
Sapling/Shrub Stratum (Plot size: 15)				FACW species0 x 2 =0
1 none	0			FAC species 40 x 3 = 120
				FACU species 75 x 4 = 300
2				UPL species 45 x 5 = 225
3				Column Totals: 160 (A) 645 (B)
4				Column Totals (A) (B)
5				Prevalence Index = B/A = 4.03
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				
	0	= Total Cover		3 - Prevalence Index is ≤3.0 ¹
50% of total cover:0		total cover:	0	4 - Morphological Adaptations ¹ (Provide supporting
Herb Stratum (Plot size: 5)				data in Remarks or on a separate sheet)
1 Eurybia macrophylla	20	Yes	UPL	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Betula populifolia	15	Yes	FAC	
3. Pueraria montana	10	No	UPL	¹ Indicators of hydric soil and wetland hydrology must
A Acer rubrum	5	No	FAC	be present, unless disturbed or problematic.
5. Quercus rubra		No	FACU	Definitions of Four Vegetation Strata:
··		INU	FACU	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
	55	= Total Cover		of size, and woody plants less than 3.28 ft tall.
50% of total cover:27.5		total cover:	11	
Woody Vine Stratum (Plot size: 30)				Woody vine – All woody vines greater than 3.28 ft in height.
1 Pueraria montana	15	Yes	UPL	neight.
2.	-	-		
3		-		
4				Hydrophytic
5				Vegetation Present? Yes No
75		= Total Cover	_	Present? Yes No
50% of total cover: 7.5	20% of	total cover:	3	
Remarks: (Include photo numbers here or on a separate s	heet.)			

Profile Desc	ription: (Describe to	the depth	needed to docun	nent the ir	ndicator	or confirm	the absence	of indicato	ors.)		
Depth	Matrix		Redo	x Features							
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>		Remarks		
0-12	10YR 3/2	100					L	Mostly sha	ale fragment	S	
											<u>.</u>
								-			_
								-			
								-			,
								-			
¹Type: C=Co	oncentration, D=Deple	etion RM=R	educed Matrix MS	S=Masked	Sand Gra	nins	² Location: P	I =Pore I ini	ng M=Matri	x	
Hydric Soil		500H, 10H=10	oddood WidthX, Wie	<u>J-Macked</u>	Odila Ole				oblematic I		s³:
Histosol			Dark Surface	(S7)					A10) (MLRA	-	
	pipedon (A2)		Polyvalue Be		e (S8) (M	II RA 147			Redox (A16		
Black Hi	. , ,		Tolyvalde Be				, 0	MLRA 14)		-,	
	n Sulfide (A4)		Loamy Gleye			,0,	P		odplain Soil	s (F19)	
	Layers (A5)		Depleted Mat		_,		<u> </u>	(MLRA 13	•	o (i 10)	
	ck (A10) (LRR N)		Redox Dark S		6)		V		Dark Surfa	ce (TF12)	
	Below Dark Surface	(A11)	Depleted Dar						in in Remark		
	rk Surface (A12)	,	Redox Depre					` '		,	
	lucky Mineral (S1) (L l	RR N,	Iron-Mangan			_RR N,					
	147, 148)		MLRA 13								
Sandy G	leyed Matrix (S4)		Umbric Surfa	ce (F13) (MLRA 13	6, 122)	³ Ind	icators of hy	ydrophytic ve	egetation ar	nd
Sandy R	edox (S5)		Piedmont Flo	odplain Sc	oils (F19)	(MLRA 14	8) we	tland hydro	logy must be	e present,	
Stripped	Matrix (S6)		Red Parent N	Material (F2	21) (MLR	A 127, 147	') un	less disturbe	ed or proble	matic.	
Restrictive I	ayer (if observed):										
Type: roc	:k										
Depth (inc	ches): <u>12</u>		<u>_</u>				Hydric Soil	Present?	Yes	No¹	<u> </u>
Remarks:							1				



Upland data point wrae235_u facing north



Upland data point wrae235_u facing south

Project/Site: Atlantic Coast Pipe	line	City/C	County: Randolph County	/	Sampling Date: 6/3/2016			
Applicant/Owner: Dominion								
Investigator(s): CG, RP, KO Section, Township, Range: No PLSS in this area								
Landform (hillslope, terrace, etc.): ridge saddle Local relief (concave, convex, none): concave Slope (%): 0								
Subregion (LRR or MLRA). N		Lat: -80.16274222	Long: 38.5	907794	Datum: WGS 1984			
Soil Map Unit Name: Gilpin char	nnery silt loam, 3 t	to 15 percent slopes		NWI classific	cation: PEM			
Are climatic / hydrologic condition	ns on the site typi	ical for this time of year? Y	′es No	(If no, explain in R	demarks.)			
Are Vegetation, Soil	, or Hydrology	significantly distur	bed? Are "Normal	Circumstances"	oresent? Yes No			
Are Vegetation, Soil								
					s, important features, etc.			
Hydrophytic Vegetation Preser	nt? Yes	✓ No						
Hydric Soil Present?		No	Is the Sampled Area	Vac V	No			
Wetland Hydrology Present?		✓ No	within a Wetland?	res	NO			
Remarks:								
HYDROLOGY								
Wetland Hydrology Indicator	·e•			Secondary Indica	ators (minimum of two required)			
, ,,		chack all that apply)		Surface Soil				
Primary Indicators (minimum o								
✓ Surface Water (A1) True Aquatic Plants (B14) Sparsely Vegetated Concave Surface ✓ High Water Table (A2) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10)								
Saturation (A3)		Oxidized Rhizosphere		Moss Trim L				
Water Marks (B1)		Presence of Reduced	-		Water Table (C2)			
Sediment Deposits (B2)		Recent Iron Reduction		Crayfish Bur				
Drift Deposits (B3)		Thin Muck Surface (0		· ·	isible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)		Other (Explain in Rer	marks)	Stunted or Stressed Plants (D1)				
Iron Deposits (B5)				Geomorphic Position (D2)				
Inundation Visible on Aeria	al Imagery (B7)			Shallow Aquitard (D3)				
Water-Stained Leaves (B9))			Microtopographic Relief (D4)				
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)			
Field Observations:			2					
Surface Water Present?		Depth (inches):	0					
Water Table Present?		Depth (inches):	0					
Saturation Present? (includes capillary fringe)	Yes V No	Depth (inches):	Wetland F	lydrology Preser	nt? Yes V No			
Describe Recorded Data (stream	am gauge, monitor	ring well, aerial photos, pre	vious inspections), if ava	ilable:				
Remarks:								

Sampling P	oint: wrae240e_w
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	Absolute	Dominant I	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Species?		Number of Dominant Species
1. none	0			That Are OBL, FACW, or FAC:2 (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:100 (A/B)
6				Prevalence Index worksheet:
7				
	0	= Total Cove	r	Total % Cover of: Multiply by:
50% of total cover:0	20% of	total cover:_	0	OBL species x 1 = 35
Sapling/Shrub Stratum (Plot size: 15				FACW species50
1. none	0			FAC species5 x 3 =15
				FACU species 0 x 4 = 0
2				
3				00 150
4				Column Totals: (A) (B)
5				Prevalence Index = B/A = 1.66
6				Trevalence index = b/A =
7				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9	0			✓ 3 - Prevalence Index is ≤3.0 ¹
0		= Total Cove	r O	4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover: 0	20% of	total cover:_		data in Remarks or on a separate sheet)
Herb Stratum (Plot size:)				Problematic Hydrophytic Vegetation ¹ (Explain)
1. Leersia virginica	35	Yes	FACW	Froblematic Trydrophytic Vegetation (Explain)
2. Carex lurida	35	Yes	OBL	1
3. Viola cucullata	15	No	FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Solidago rugosa	5	No	FAC	
5				Definitions of Four Vegetation Strata:
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6				more in diameter at breast height (DBH), regardless of
7				height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11.				Hank All hank assaure (non-useath) plants resembles
	90 .	= Total Cove		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 45		total cover:		or orac, and troody praints root than orac it tam
Woody Vine Stratum (Plot size: 30)	2070 0.			Woody vine – All woody vines greater than 3.28 ft in
1 none	0			height.
· ·				
2				
3				
4				Hydrophytic
5				Vegetation
	0 .	= Total Cove		Present? Yes No
50% of total cover: 0		total cover:_		
Remarks: (Include photo numbers here or on a separate s		_		
Tremaiks. (include prioto numbers here of on a separate si	neet.)			

Profile Des	scription: (Describe	to the de	pth needed to docur	ment the	indicator	or confirn	n the absend	ce of indicators.)
Depth	Matrix		Redo	x Feature	s1	. 2		
(inches) 0-3	Color (moist) 10YR 4/1	<u>%</u> 95	Color (moist) 10YR 3/4	- <u>%</u> 5	Type ¹ C	Loc ²	<u>Texture</u> SIC	Remarks
3-6	10YR 5/2	95	10YR 3/5	5	C	M	SIC	_
6-18	10YR 4/1	95	10YR 3/4	5	С	M	SIC	
			· -	-	· 			_
	-		· -					_
			· ·	-		·		_
	- -							
	_							_
Type: C=0	Concentration, D=Dep	letion, RM	1=Reduced Matrix, M	S=Maske	d Sand Gr	ains.		PL=Pore Lining, M=Matrix.
Hydric Soi	I Indicators:						Indi	cators for Problematic Hydric Soils ³ :
Histoso	ol (A1)		Dark Surface	e (S7)				2 cm Muck (A10) (MLRA 147)
Histic E	Epipedon (A2)		Polyvalue Be	elow Surfa	ice (S8) (N	/ILRA 147,	, 148)	Coast Prairie Redox (A16)
	Histic (A3)		Thin Dark Su			147, 148)		(MLRA 147, 148)
	gen Sulfide (A4)		Loamy Gleye		(F2)			Piedmont Floodplain Soils (F19)
	ed Layers (A5)		✓ Depleted Ma					(MLRA 136, 147)
	fuck (A10) (LRR N)	- (0.4.4)	Redox Dark	•	,			Very Shallow Dark Surface (TF12)
	ed Below Dark Surfac	e (A11)	Depleted Da					Other (Explain in Remarks)
	Dark Surface (A12)	DDN	Redox Depre			IDDN		
	Mucky Mineral (S1) (I RA 147, 148)	LKK N,	Iron-Mangan MLRA 13		es (F12) (LKK N,		
	Gleyed Matrix (S4)		Umbric Surfa	•	(MIRA 13	86, 122)	³ lı	ndicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					wetland hydrology must be present,
	ed Matrix (S6)		Red Parent I					unless disturbed or problematic.
	Layer (if observed):	:	_		, ,	,	Ť	
Type: ro	ock (
Denth (i	nches): 6						Hydric Sc	oil Present? Yes No
Remarks:							Tiyano oc	7111100111. 103 <u> </u>
Remarks.								



Wetland data point wrae240e_w facing east



Wetland data point wrae240e_w facing north

Project/Site: Atlantic Coast Pipeline		City/0	County: Randolph County	/	Sampling Date: 6/3/2016		
Applicant/Owner: Dominion				State: WV	Sampling Point: wrae240_u		
Investigator(s): CG, RP, KO Section, Township, Range: No PLSS in this area							
Landform (hillslope, terrace, etc.): flat							
Subregion (LRR or MLRA): N							
Soil Map Unit Name: Gilpin channery s	ilt loam, 3 to 15	percent slopes	zong	NWI classifi	cation: UPLAND		
Are climatic / hydrologic conditions on the							
Are Vegetation, Soil, or							
Are Vegetation, Soil, or							
SUMMARY OF FINDINGS – A							
				<u> </u>	· · ·		
Hydrophytic Vegetation Present? Hydric Soil Present?	Yes	No	Is the Sampled Area		.,		
Wetland Hydrology Present?	Yes		within a Wetland?	Yes	No		
Remarks:	103						
HYDROLOGY							
Wetland Hydrology Indicators:					ators (minimum of two required)		
Primary Indicators (minimum of one is	required; check	k all that apply)		Surface Soil			
Surface Water (A1)		True Aquatic Plants			getated Concave Surface (B8)		
High Water Table (A2)		lor (C1)	_	atterns (B10)			
Saturation (A3)			• ,	Moss Trim L			
Water Marks (B1) Sediment Deposits (B2)		Presence of Reduce Recent Iron Reduction		Dry-Season Water Table (C2)			
Sediment Deposits (B2) Drift Deposits (B3)		Thin Muck Surface (
Algal Mat or Crust (B4)		Other (Explain in Re		Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1)			
Iron Deposits (B5)		()	.,		Position (D2)		
Inundation Visible on Aerial Image	ery (B7)			Shallow Aqu			
Water-Stained Leaves (B9)				Microtopographic Relief (D4)			
Aquatic Fauna (B13)				FAC-Neutra	l Test (D5)		
Field Observations:							
		Depth (inches):					
		Depth (inches):					
Saturation Present? Yes (includes capillary fringe)	No	Depth (inches):	Wetland H	Wetland Hydrology Present? Yes No			
Describe Recorded Data (stream gaug	ge, monitoring v	well, aerial photos, pre	evious inspections), if ava	ilable:			
Remarks:							

Sampling Po	oint·wrae240_	u
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	Absolute	Dominant Ir	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size:)			Status	Number of Dominant Species
1. Quercus rubra	20	Yes	FACU	That Are OBL, FACW, or FAC:1 (A)
2. Acer saccharum	15	Yes	FACU	Total Number of Demisses
3. Fagus grandifolia	10	Yes	FACU	Total Number of Dominant Species Across All Strata: 7 (B)
4				Species / teleses / till etilatat.
4				Percent of Dominant Species That Are ORL FACW or FAC: 14.28571428 (A/R)
5				That Are OBL, FACW, or FAC:
6	-			Prevalence Index worksheet:
7	45			Total % Cover of: Multiply by:
20.5	.——	= Total Cove	r 9	OBL species 0 x 1 = 0
50% of total cover: 22.5	20% of	total cover:		
Sapiing/Shrub Stratum (Plot size:)				FACVV species X Z =
1. Rubus allegheniensis	50	Yes	FACU	FAC species
2. Betula alleghaniensis	25	Yes	FAC	FACU species x 4 =
3. Liriodendron tulipifera	20	Yes	FACU	UPL species x 5 =
4				Column Totals:160
				Prevalence Index = B/A =3.96
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 ¹
		= Total Cove		4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover: 47.5	20% of	total cover:	19	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5				. ,
1. Dryopteris campyloptera	20	Yes	UPL	Problematic Hydrophytic Vegetation ¹ (Explain)
2				
3				¹ Indicators of hydric soil and wetland hydrology must
4				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.				Harb All borbossous (non woods) plants, regardless
	20	= Total Cove		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 40		total cover:	4.0	
Woody Vine Stratum (Plot size: 30)				Woody vine – All woody vines greater than 3.28 ft in
1. none	0			height.
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 s	heet.)			
(,			
				I

Depth	Matrix		Redox Features	2 -	
inches)	Color (moist) 7.5YR 2.5/1	<u>%</u>	Color (moist) % Type ¹ Lo	c ² Texture SICL	<u>Remarks</u>
0-4	7.51R 2.5/1	100		SICL	
4-16	10YR 4/3	100		SICL	
	•				
	-				
					_
	-	- · ·			_
	-				
					_
		- · <u></u>			
	- D. D.	laces DM D	and the state of March and October 1975	21 1'	Di Dana Lisian M Matrix
	Indicators:	oletion, RM=Re	educed Matrix, MS=Masked Sand Grains.		PL=Pore Lining, M=Matrix. icators for Problematic Hydric Soils ³ :
			Darle Confess (C7)	illu	
_ Histosol			Dark Surface (S7)		2 cm Muck (A10) (MLRA 147)
	pipedon (A2) listic (A3)		Polyvalue Below Surface (S8) (MLRAThin Dark Surface (S9) (MLRA 147, 1		Coast Prairie Redox (A16)
	en Sulfide (A4)		Loamy Gleyed Matrix (F2)		(MLRA 147, 148) Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Matrix (F3)		(MLRA 136, 147)
	uck (A10) (LRR N)		Redox Dark Surface (F6)		Very Shallow Dark Surface (TF12)
	d Below Dark Surfac	e (A11)	Depleted Dark Surface (F7)		Other (Explain in Remarks)
	ark Surface (A12)	,	Redox Depressions (F8)		
	Mucky Mineral (S1) (I	LRR N,	Iron-Manganese Masses (F12) (LRR	N,	
	A 147, 148)	,	MLRA 136)	•	
	Gleyed Matrix (S4)		Umbric Surface (F13) (MLRA 136, 12	2) 3lı	ndicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Floodplain Soils (F19) (MLF	RA 148)	wetland hydrology must be present,
Stripped	d Matrix (S6)		Red Parent Material (F21) (MLRA 12	7, 147)	unless disturbed or problematic.
estrictive	Layer (if observed):				
Type:			<u>_</u>		
Depth (in	iches):			Hydric So	oil Present? Yes No 🚩
emarks:					



Upland data point wrae240_u facing west



Upland data point wrae240_u facing south

Project/Site: Atlantic Coast Pipe	line	City/C	county: Randolph County	/	Sampling Date: 6/3/2016		
Applicant/Owner: Dominion				State: WV	Sampling Point: wrae239e_w		
Investigator(s): CG, RP, KO Section, Township, Range: No PLSS in this area							
Landform (hillslope, terrace, etc.							
Subregion (LRR or MLRA): N		Lat: -80.16239476	Long: 38.5	9054843	Datum: WGS 1984		
Soil Map Unit Name: Gilpin cha	nnery silt loam, 3 to	o 15 percent slopes		NWI classific	ation: PEM		
Are climatic / hydrologic condition	ons on the site typic	cal for this time of year? Y	es No	(If no, explain in R	emarks.)		
Are Vegetation, Soil	, or Hydrology	significantly distur	bed? Are "Normal	Circumstances" p	oresent? Yes No		
Are Vegetation, Soil							
					, important features, etc.		
Hydrophytic Vegetation Preser	nt? Yes	✓ No					
Hydric Soil Present?	Yes	No	Is the Sampled Area	V V	No		
Wetland Hydrology Present?		V No	within a Wetland?	res	NO		
Remarks:		<u> </u>					
HYDROLOGY							
Wetland Hydrology Indicator				Secondary Indica	ators (minimum of two required)		
Primary Indicators (minimum o		heck all that apply)		Surface Soil			
✓ Surface Water (A1)	Tone is required, e	True Aquatic Plants (R14)		getated Concave Surface (B8)		
High Water Table (A2)		or (C1)	Drainage Pa				
Saturation (A3)			Moss Trim Li				
Water Marks (B1)			Water Table (C2)				
Sediment Deposits (B2)		d Iron (C4) n in Tilled Soils (C6)	Crayfish Bur				
Drift Deposits (B3)		Thin Muck Surface (C	C7)	Saturation Vi	sible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)		Other (Explain in Ren	marks)	Stunted or S	tressed Plants (D1)		
Iron Deposits (B5)				Geomorphic	, ,		
Inundation Visible on Aeria				Shallow Aquitard (D3)			
Water-Stained Leaves (BS))			Microtopographic Relief (D4)			
Aquatic Fauna (B13)			·	FAC-Neutral	Test (D5)		
Field Observations:	v v v	D (1 (' 1)	3				
Surface Water Present?		Depth (inches):	0				
Water Table Present?		Depth (inches):	0 Medand I	ludual a sur Dua a a s	.42 Vaa V Na		
Saturation Present? (includes capillary fringe)	res _ • No _	Depth (inches):	wetland F	lydrology Preser	t? Yes No		
Describe Recorded Data (stream	am gauge, monitori	ng well, aerial photos, pre	vious inspections), if ava	ilable:			
Domorko							
Remarks:							

Sampling Po	oint: wrae239e_v	٧
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00	Absolute	Dominant Ir		Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Species?	<u>Status</u>	Number of Dominant Species
1. none				That Are OBL, FACW, or FAC: (A)
2				T. IN I CD
3				Total Number of Dominant Species Across All Strata: 2 (B)
		·		Species Across Air Strata (b)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100 (A/B)
6				Prevalence Index worksheet:
7				
	0	= Total Cover		Total % Cover of: Multiply by:
50% of total cover:0	20% of	total cover:	0	OBL species 35 x 1 = 35 100
Sapling/Shrub Stratum (Plot size: 15				FACW species x 2 =
1 none	0			FAC species5 x 3 =15
		-		FACU species0 x 4 =0
2				UPL species0 x 5 =0
3		·		00 150
4		·		Column Totals: (A) (B)
5				Prevalence Index = B/A =1.66
6				Trevalence mack = B/Tt =
7			_	Hydrophytic Vegetation Indicators:
8				1 - Rapid Test for Hydrophytic Vegetation
		·		✓ 2 - Dominance Test is >50%
9	0	T-1-1 0		✓ 3 - Prevalence Index is ≤3.0 ¹
50% of total cover:		= Total Cover	0	4 - Morphological Adaptations ¹ (Provide supporting
	20% 01	total cover:		data in Remarks or on a separate sheet)
TIEID Stratum (Flot Size)	٥٦		0.51	Problematic Hydrophytic Vegetation ¹ (Explain)
1. Carex lurida	35	Yes	OBL	: resistance : sycreptific a egetation (Explain)
2. Leersia virginica	35	Yes	FACW	¹ Indicators of hydric soil and wetland hydrology must
3. Viola cucullata	15	No	FACW	be present, unless disturbed or problematic.
4. Solidago rugosa	5	No	FAC	Definitions of Four Vegetation Strata:
5				Definitions of Four Vogetation Strata.
6		·		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
7				more in diameter at breast height (DBH), regardless of
		-		height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10		-		m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless
		= Total Cover		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. none	0			
2				
3				
4				Hydrophytic
5				Vegetation Present? Yes No
		= Total Cover	0	11030Ht: 103 NO
50% of total cover:0		total cover:		
Remarks: (Include photo numbers here or on a separate s	heet.)			
				II.

Profile Desc	ription: (Describe t	o the de	oth needed to docun	nent the i	indicator	or confirn	n the absence	e of indicators.)
Depth	Matrix		Redox	x Feature	s			
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
0-3	10YR 4/1	95	10YR 3/4	5	C	M	SIC	
3-6	10YR 5/2	95	10YR 3/4	5	С	M	SIC	
6-18	10YR 4/1	95	10YR 3/4	5	С	М	SIC	
						· ——		
					•			
								-
¹ Type: C=Co	oncentration, D=Depl	etion, RM	=Reduced Matrix, MS	S=Masked	d Sand Gr	ains.	² Location: F	PL=Pore Lining, M=Matrix.
Hydric Soil								cators for Problematic Hydric Soils ³ :
Histosol	(A1)		Dark Surface	(S7)			:	2 cm Muck (A10) (MLRA 147)
Histic Ep	oipedon (A2)		Polyvalue Be	low Surfa	ice (S8) (N	ILRA 147,	, 148)	Coast Prairie Redox (A16)
Black Hi			Thin Dark Su	rface (S9) (MLRA 1	47, 148)		(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye		(F2)		!	Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Mat					(MLRA 136, 147)
	ick (A10) (LRR N)		Redox Dark S	,	,			Very Shallow Dark Surface (TF12)
	d Below Dark Surface	e (A11)	Depleted Dar				_ '	Other (Explain in Remarks)
	ark Surface (A12) lucky Mineral (S1) (L	DD N	Redox Depre Iron-Mangane			I DD N		
	147, 148)	KK N,	MLRA 130		es (F12) (LKK N,		
	Gleyed Matrix (S4)		Umbric Surfa		(MLRA 13	6. 122)	³ ln	dicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					retland hydrology must be present,
	Matrix (S6)		Red Parent M					nless disturbed or problematic.
Restrictive I	Layer (if observed):			`	, ,	<u> </u>	İ	·
Type: roo	ck							
Depth (inc	ches): 6		<u></u>				Hydric So	il Present? Yes No
Remarks:	,							
	ed by logging activitie	es.						
	ou of logging douring							



Wetland data point wrae239e_w facing east



Wetland data point wrae239e_w facing northwest

Project/Site: Atlantic Coast Pipeline		City/0	County: Randolph County	/	Sampling Date: 6/3/2016		
Applicant/Owner: Dominion				State: WV	Sampling Point: wrae239_u		
Investigator(s): CG, RP, KO Section, Township, Range: No PLSS in this area							
Landform (hillslope, terrace, etc.): flat							
Subregion (LRR or MLRA): N							
Soil Map Unit Name: Gilpin channery s	ilt loam, 3 to 15	percent slopes	Long	NWI classifi	cation: UPLAND		
Are climatic / hydrologic conditions on t							
Are Vegetation, Soil, or							
Are Vegetation, Soil, or							
SUMMARY OF FINDINGS – A	ttach site ii	nap snowing sar	The point location	ons, transects	s, important features, etc.		
Hydrophytic Vegetation Present?	Yes		Is the Sampled Area				
Hydric Soil Present?		No	within a Wetland?	Yes	No		
Wetland Hydrology Present? Remarks:	Yes	No					
LIVEROL GOV							
HYDROLOGY				Cocondon India	ators (minimum of two required)		
Wetland Hydrology Indicators:	roquirodi oboo	de all that apply			ators (minimum of two required)		
Primary Indicators (minimum of one is	-			Surface Soi			
Surface Water (A1) High Water Table (A2)		True Aquatic Plants Hydrogen Sulfide Od			getated Concave Surface (B8) atterns (B10)		
Saturation (A3)				Moss Trim L			
Water Marks (B1)		Presence of Reduce	-		Water Table (C2)		
Sediment Deposits (B2)			on in Tilled Soils (C6)				
Drift Deposits (B3)		Thin Muck Surface (Saturation Visible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)		Other (Explain in Re	marks)	Stunted or Stressed Plants (D1)			
Iron Deposits (B5)					Position (D2)		
Inundation Visible on Aerial Image	ery (B7)			Shallow Aquitard (D3)			
Water-Stained Leaves (B9)				Microtopographic Relief (D4) FAC-Neutral Test (D5)			
Aquatic Fauna (B13)			T	FAC-Neutra	l Test (D5)		
Field Observations:	No. V	Donth (inch so)					
		Depth (inches): Depth (inches):					
		_ Depth (inches):		Wetland Hydrology Present? Yes No			
(includes capillary fringe)				,	nt? Yes No		
Describe Recorded Data (stream gauge	ge, monitoring v	well, aerial photos, pr	evious inspections), if ava	ilable:			
Remarks:							
No hydrology present							

Sampling	Point: wrae239_	_u
Sampling	Point: wide239-	

00	Absolute	Dominant In	dicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:)			Status	Number of Dominant Species
1. Quercus rubra	20	Yes	FACU	That Are OBL, FACW, or FAC:1 (A)
2. Acer saccharum	15	Yes	FACU	Total Number of Deminent
3. Fagus grandifolia	10	Yes	FACU	Total Number of Dominant Species Across All Strata: 7 (B)
4				(=,
5				Percent of Dominant Species That Are OBL FACW or FAC: 14.28571428 (A/B)
0				That Are OBL, FACW, or FAC:
6				Prevalence Index worksheet:
7	45			Total % Cover of: Multiply by:
	:	= Total Cover	9	OBL species0 x 1 =0
50% of total cover: 22.5	20% of	total cover:		0
Sapling/Snrub Stratum (Plot size:)				FACW species $\begin{array}{c} 0 \\ x 2 = \\ \hline \end{array}$
1. Betula alleghaniensis	25	Yes	FAC	FAC species X 3 =
2. Liriodendron tulipifera	20	Yes	FACU	FACU species x 4 =
3				UPL species x 5 = 100
4				Column Totals:(A)(B)
			-	Prevalence Index = B/A =3.96
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 ¹
		= Total Cover		4 - Morphological Adaptations¹ (Provide supporting
50% of total cover: <u>47.5</u>	20% of	total cover:	19	
Herb Stratum (Plot size:)				data in Remarks or on a separate sheet)
1. Rubus allegheniensis	50	Yes	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
2 Dryopteris campyloptera	20	Yes	UPL	
3				¹ Indicators of hydric soil and wetland hydrology must
		 -		be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5		·		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6				more in diameter at breast height (DBH), regardless of
7				height.
8		. <u></u> .		Sanling/Shrub Woody plants, evaluding vines loss
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.				
· · ·	70	= Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 35		total cover:	14	or oleo, and woody planto loop than oleo it tail.
Woody Vine Stratum (Plot size: 30)	2070 01	total 00 vol		Woody vine – All woody vines greater than 3.28 ft in
1 none	0			height.
!·				
2				
3				
4				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 si	heet.)			
Tromanier (morado priore manifeste mora di en di esparate e	,			

Depth	Matrix		Redox Features		
(inches)	Color (moist)	%	Color (moist) % Type ¹ Loc		<u>Remarks</u>
0-4	7.5YR 2.5/1	100		SICL	
4-16	10YR 4/3	100		SICL	
	-				
					- -
					- -
					_
Typo: C-C	oncontration D-Don	lotion PM-P	educed Matrix, MS=Masked Sand Grains.	² l ocation:	PL=Pore Lining, M=Matrix.
	Indicators:	ielion, Kivi=Ki	educed Matrix, MS=Masked Sand Grains.		icators for Problematic Hydric Soils ³ :
•			Dorle Starfood (SZ)		
Histosol			Dark Surface (S7)		2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Below Surface (S8) (MLRAThin Dark Surface (S9) (MLRA 147, 14		Coast Prairie Redox (A16)
	stic (A3)			•	(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleyed Matrix (F2)		Piedmont Floodplain Soils (F19)
	d Layers (A5) uck (A10) (LRR N)		Depleted Matrix (F3)		(MLRA 136, 147) Very Shallow Dark Surface (TF12)
	d Below Dark Surface	ο (Λ11)	Redox Dark Surface (F6)		Other (Explain in Remarks)
	ark Surface (A12)	e (A11)	Depleted Dark Surface (F7)Redox Depressions (F8)		Other (Explain in Remarks)
	Mucky Mineral (S1) (L	DD N	Iron-Manganese Masses (F12) (LRR N	ı	
	147, 148)	.KK N,	MLRA 136)	1,	
	Gleyed Matrix (S4)		Umbric Surface (F13) (MLRA 136, 122	N 31.	ndicators of hydrophytic vegetation and
	Redox (S5)				wetland hydrology must be present,
	Matrix (S6)		Piedmont Floodplain Soils (F19) (MLRRed Parent Material (F21) (MLRA 127		unless disturbed or problematic.
	Layer (if observed):		Red Falent Material (F21) (MERA 121	, 147)	unless disturbed of problematic.
	Layer (II Observeu).				
Type:			_		
Depth (in	ches):		_	Hydric Sc	oil Present? Yes No
Remarks:					



Upland data point wrae239_u facing west



Upland data point wrae239_u facing north

Project/Site: Atlantic Coast Pipeline		City/C	County: Randolph County	y	Sampling Date: 7/1/2016
Applicant/Owner: Dominion				State: WV	Sampling Point: wrae268e_w
			on, Township, Range: No		
Landform (hillslope, terrace, etc.): road					Slope (%): <u>3</u>
Subregion (LRR or MLRA): N		38.58771848	Long: -80.	16390581	Datum: WGS 1984
Soil Map Unit Name: Gilpin-Dekalb sto	ony complex, moi	ist, 15 to 35 percent s	slopes	NWI classifi	cation: PEM
Are climatic / hydrologic conditions on	the site typical fo	or this time of year? Y	res No	(If no, explain in F	Remarks.)
Are Vegetation, Soil, o	r Hydrology	significantly distur	rbed? Are "Normal	l Circumstances"	present? Yes No
Are Vegetation, Soil, o					
SUMMARY OF FINDINGS – A					
Hydrophytic Vegetation Present?	Yes	No			
Hydric Soil Present?	Yes 🗸	No	Is the Sampled Area	V V	No
Wetland Hydrology Present?		No	within a Wetland?	res	NO
Remarks:			l		
roadbed, highly disturbed					
HYDROLOGY					
Wetland Hydrology Indicators:					ators (minimum of two required)
Primary Indicators (minimum of one i			,	Surface Soil	
Surface Water (A1)		True Aquatic Plants (getated Concave Surface (B8)
High Water Table (A2)		Hydrogen Sulfide Od		✓ Drainage Pa	
Saturation (A3)			res on Living Roots (C3)	Moss Trim L	, ,
Water Marks (B1)		Presence of Reduced			Water Table (C2)
Sediment Deposits (B2)		Recent Iron Reduction		Crayfish Bu	
Drift Deposits (B3)		Thin Muck Surface (0			isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Other (Explain in Rer	marks)		Stressed Plants (D1)
Iron Deposits (B5)	(5-)				Position (D2)
Inundation Visible on Aerial Imag	jery (B7)			Shallow Aqu	
Water-Stained Leaves (B9)					aphic Relief (D4)
Aquatic Fauna (B13)				FAC-Neutra	I Test (D5)
Field Observations:	N= V	Death (seekee)			
		Depth (inches):	0		
		Depth (inches):	0		
Saturation Present? Yes _ (includes capillary fringe)	No	Depth (inches):	Wetland F	Hydrology Prese	nt? Yes V No
Describe Recorded Data (stream gau	ige, monitoring w	vell, aerial photos, pre	evious inspections), if ava	ailable:	
Remarks:					

Sampling F	Point: wrae268e_	w
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00	Absolute	Dominant In		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: 30)	% Cover 0	Species?	Status	Number of Dominant Species
1. none				That Are OBL, FACW, or FAC:2 (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: 100 (A/B)
6				
7				Prevalence Index worksheet:
	0	= Total Cover		Total % Cover of: Multiply by:
50% of total cover:0	20% of	total cover:	0	OBL species85 x 1 =85
Sapling/Shrub Stratum (Plot size: 15				FACW species x 2 =60
1. none	0			FAC species0 x 3 =0
2				FACU species0 x 4 =0
3				UPL species0 x 5 =0
4.				Column Totals:115
·				
5				Prevalence Index = B/A =1.26
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9				✓ 3 - Prevalence Index is ≤3.0 ¹
0		= Total Cover	0	4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover:0	20% of	total cover:		data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5	70		0.01	Problematic Hydrophytic Vegetation ¹ (Explain)
1. Scirpus atrovirens	70	Yes	OBL	
2. Juncus effusus	30	Yes	FACW	¹ Indicators of hydric soil and wetland hydrology must
3. Carex prasina	15	No	OBL	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				
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.				
	115	= Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 57.5		total cover:		
Woody Vine Stratum (Plot size: 30)				Woody vine – All woody vines greater than 3.28 ft in
1. none	0			height.
3				
4				Hydrophytic
5				Vegetation Present? Yes No
50% of total cover: 0		= Total Cover	0	1163CH: 163 NO
0070 01 total 00701.		total cover:		
Remarks: (Include photo numbers here or on a separate s	heet.)			

Sampling Point: wrae268e_w

Profile Desc	ription: (Describe to the	depth needed to d	document the indicator or co	onfirm the a	bsence of indicators.)
Depth	Matrix		Redox Features		
(inches)	Color (moist) %			oc² Te	xture Remarks
		 -			
	·				
	-				
1				2,	
		, RM=Reduced Matr	ix, MS=Masked Sand Grains.	[*] Loca	ation: PL=Pore Lining, M=Matrix.
Hydric Soil					Indicators for Problematic Hydric Soils ³ :
Histosol	(A1)		urface (S7)		2 cm Muck (A10) (MLRA 147)
Histic Ep	pipedon (A2)	Polyval	ue Below Surface (S8) (MLRA	A 147, 148)	Coast Prairie Redox (A16)
Black Hi			ark Surface (S9) (MLRA 147,		(MLRA 147, 148)
	n Sulfide (A4)		Gleyed Matrix (F2)	•	Piedmont Floodplain Soils (F19)
	Layers (A5)		ed Matrix (F3)		(MLRA 136, 147)
	ck (A10) (LRR N)		Dark Surface (F6)		Very Shallow Dark Surface (TF12)
	Below Dark Surface (A1		ed Dark Surface (F7)		Other (Explain in Remarks)
	ark Surface (A12)		Depressions (F8)		Cirior (Explain in Nomano)
	lucky Mineral (S1) (LRR N		inganese Masses (F12) (LRR	N	
				IN,	
	147, 148)		RA 136)		3
	leyed Matrix (S4)		Surface (F13) (MLRA 136, 12		³ Indicators of hydrophytic vegetation and
Sandy R	edox (S5)	Piedmo	nt Floodplain Soils (F19) (ML	RA 148)	wetland hydrology must be present,
Stripped	Matrix (S6)	Red Pa	rent Material (F21) (MLRA 12	27, 147)	unless disturbed or problematic.
Restrictive I	ayer (if observed):				
Type:					
	ches):			Llva	ric Soil Present? Yes No
	леs)	_		пус	ilic Soli Fresent: Tes No
Remarks:					
no soil due to	gravel road				



Wetland data point wrae268e_w facing south



Wetland data point wrae268e_w facing west

Project/Site: Atlantic Coast Pipeline		City/C	County: Randolph County	′	Sampling Date: 7/1/2016	
Applicant/Owner: Dominion					Sampling Point: wrae268_u	
			on, Township, Range: No			
Landform (hillslope, terrace, etc.): road					Slope (%):2	
Subregion (LRR or MLRA): N		. 38.58764856	Long80.	1638328	Datum: WGS 1984	
Soil Map Unit Name: Gilpin-Dekalb stony	complex, mc	oist, 15 to 35 percent s	slopes	NWI classific	ation: UPL	
Are climatic / hydrologic conditions on the	site typical fo	or this time of year? Y	′es No	(If no, explain in R	emarks.)	
Are Vegetation, Soil, or H	ydrology	significantly distur	bed? Are "Normal	Circumstances" p	oresent? Yes No	
Are Vegetation, Soil, or H						
SUMMARY OF FINDINGS – Att	-					
Hydrophytic Vegetation Present?	Yes	No 🗸				
Hydric Soil Present?		No	Is the Sampled Area	Vaa	No	
Wetland Hydrology Present?	Yes		within a Wetland?	res	NO	
HYDROLOGY						
Wetland Hydrology Indicators:				Secondary Indica	tors (minimum of two required)	
Primary Indicators (minimum of one is re	equired; chec	k all that apply)		Surface Soil	Cracks (B6)	
Surface Water (A1)		True Aquatic Plants ((B14)	Sparsely Vegetated Concave Surface (B8)		
High Water Table (A2)	_	Hydrogen Sulfide Od	or (C1)	Drainage Pa	tterns (B10)	
Saturation (A3)		Oxidized Rhizospher	es on Living Roots (C3)	Moss Trim Li	nes (B16)	
Water Marks (B1)		Presence of Reduced		Dry-Season	Water Table (C2)	
Sediment Deposits (B2)	_	Recent Iron Reduction	on in Tilled Soils (C6)	Crayfish Buri		
Drift Deposits (B3)		Thin Muck Surface (0			sible on Aerial Imagery (C9)	
Algal Mat or Crust (B4)	_	Other (Explain in Rer	marks)		tressed Plants (D1)	
Iron Deposits (B5)	(DZ)			Geomorphic	, ,	
Inundation Visible on Aerial Imager	y (B7)			Shallow Aqui		
Water-Stained Leaves (B9)Aquatic Fauna (B13)				FAC-Neutral	phic Relief (D4)	
Field Observations:				I AC-Neutiai	1631 (03)	
	No.	Depth (inches):				
		Depth (inches):				
		Depth (inches):		lydrology Presen	t? Yes No	
(includes capillary fringe)						
Describe Recorded Data (stream gauge	, monitoring \	well, aerial photos, pre	evious inspections), if ava	ilable:		
Remarks:						
No hydrology						

Sampling Point: wrae268

•	Absolute	Dominant In	dicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover 15		Status EACLI	Number of Dominant Species
1. Acer saccharum		Yes	FACU	That Are OBL, FACW, or FAC: 2 (A)
2. Betula alleghaniensis	15	Yes	FAC	Total Number of Dominant
3. Liriodendron tulipifera	15	Yes	FACU	Species Across All Strata: 4 (B)
4. Fagus grandifolia	10	No	FACU	
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B)
6				That Are OBE, I AGW, OF I AG.
7.	-		-	Prevalence Index worksheet:
·	55	= Total Cover		Total % Cover of: Multiply by:
50% of total cover: 27.5		total cover:	11	OBL species20 x 1 =20
Sapling/Shrub Stratum (Plot size: 15)	2070 01	total 00 vol		FACW species0 x 2 =0
1 none	0			FAC species 15 x 3 = 45
				FACU species 45 x 4 = 180
2				UPL species5
3				85 270
4				Column Totals: (A) (B)
5				Prevalence Index = B/A = 3.17
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9.				
	0	= Total Cover		3 - Prevalence Index is ≤3.0 ¹
50% of total cover:		total cover:	0	4 - Morphological Adaptations ¹ (Provide supporting
Herb Stratum (Plot size:5				data in Remarks or on a separate sheet)
1 Carex prasina	20	Yes	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Eurybia macrophylla	5	No	UPL	
3 Liriodendron tulipifera	5	No	FACU	¹ Indicators of hydric soil and wetland hydrology must
3. Entodorial of tamphora			17100	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
	30	= Total Cover		of size, and woody plants less than 3.28 ft tall.
50% of total cover: 15		total cover:	6	
Woody Vine Stratum (Plot size: 30)				Woody vine – All woody vines greater than 3.28 ft in
1. none	0			height.
•				
	-			
3	-			
4				Hydrophytic
5				Vegetation
		= Total Cover	0	Present? Yes No
50% of total cover:0	20% of	total cover:		
Remarks: (Include photo numbers here or on a separate s	heet.)			1

Sampling Point: wrae268_u

Depth	Matrix		Redox	K Features	1 . 2	_	
nches)	Color (moist)	%	Color (moist)	% Type	Loc ²	Texture	Remarks
			-		·	•	
						-	<u> </u>
							· .
						-	-
						2	
	oncentration, D=Deple	etion, RM=Re	duced Matrix, MS	S=Masked Sand (Grains.		PL=Pore Lining, M=Matrix.
lydric Soil I	ndicators:					Indic	cators for Problematic Hydric Soils ³ :
Histosol	(A1)	_	_ Dark Surface	(S7)		:	2 cm Muck (A10) (MLRA 147)
Histic Ep	ipedon (A2)	_	Polyvalue Be	low Surface (S8)	(MLRA 147,	148)	Coast Prairie Redox (A16)
Black His	stic (A3)	_	Thin Dark Su	rface (S9) (MLR)	A 147, 148)		(MLRA 147, 148)
Hydroge	n Sulfide (A4)	_	Loamy Gleye	d Matrix (F2)			Piedmont Floodplain Soils (F19)
Stratified	Layers (A5)	_	Depleted Mat	rix (F3)			(MLRA 136, 147)
2 cm Mu	ck (A10) (LRR N)	_	Redox Dark S	Surface (F6)			Very Shallow Dark Surface (TF12)
Depleted	Below Dark Surface	(A11) _	Depleted Dar	k Surface (F7)		(Other (Explain in Remarks)
Thick Da	rk Surface (A12)	_	Redox Depre	ssions (F8)			
Sandy M	lucky Mineral (S1) (LI	RR N,	Iron-Mangane	ese Masses (F12) (LRR N,		
	147, 148)		MLRA 136	6)			
	leyed Matrix (S4)	_	Umbric Surfa	ce (F13) (MLRA	136, 122)	³ In	dicators of hydrophytic vegetation and
	edox (S5)	_		odplain Soils (F1			retland hydrology must be present,
	Matrix (S6)	_		1aterial (F21) (MI			nless disturbed or problematic.
	ayer (if observed):		_	, , ,		1	·
Type:	, , , , , , , , , , , , , , , , , , , ,						
	Jh = = \.		=			Unadaia Cal	H Dunganta Van Na V
Depth (inc	nes):		-			Hydric So	il Present? Yes No
Remarks:							
soil pit due	to gravel road						



Upland data point wrae268_u facing north



Upland data point wrae268_u facing east

Project/Site: Atlantic Coast Pipeline		City/County: Randolph County Sampling Date: 6/2/2016						
Applicant/Owner: Dominion		State: WV Sampling Point: wrae238e						
		Section, Township, Range: No PLSS in this area						
	slope, terrace, etc.): floodplain Local relief (concave, convex, none): concave Slope (%):2							
	Lat: <u>-80.15876799</u> Long: <u>38.58548844</u>							
Soil Map Unit Name: Udifluvents, cobbly				NWI classifi	cation: PEM			
Are climatic / hydrologic conditions on the	site typical fo	or this time of year? Y	'es No	(If no, explain in F	Remarks.)			
Are Vegetation, Soil, or H	ydrology	significantly distur	bed? Are "Normal	Circumstances"	present? Yes No			
Are Vegetation, Soil, or H								
SUMMARY OF FINDINGS – Att								
Hydrophytic Vegetation Present?	Voc V	No						
Hydric Soil Present?	Yes V	No	Is the Sampled Area	V V	No			
Wetland Hydrology Present?		No	within a Wetland?	Yes	NO			
HYDROLOGY								
Wetland Hydrology Indicators:				Secondary Indic	ators (minimum of two required)			
Primary Indicators (minimum of one is re	equired; chec	k all that apply)		Surface Soi	Cracks (B6)			
Surface Water (A1)	_	True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)				
High Water Table (A2)		Hydrogen Sulfide Od		_	atterns (B10)			
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)	_	Thin Muck Surface (C			/isible on Aerial Imagery (C9)			
Algal Mat or Crust (B4) Iron Deposits (B5)	_	Other (Explain in Rer	narks)		Stressed Plants (D1) c Position (D2)			
Indit Deposits (B5) Inundation Visible on Aerial Imagery	/ (B7)				• •			
Water-Stained Leaves (B9)	, (51)			Shallow Aquitard (D3)Microtopographic Relief (D4)				
Aquatic Fauna (B13)				FAC-Neutral Test (D5)				
Field Observations:					. ,			
Surface Water Present? Yes	No 🗸	Depth (inches):						
		Depth (inches):						
		Depth (inches):		Wetland Hydrology Present? Yes No				
(includes capillary fringe) Describe Recorded Data (stream gauge	. monitoring \	well, aerial photos, pre	vious inspections), if ava	ilable:				
gauge	,eg	, aona: priotos, pro						
Remarks:								

Sampling I	Point: wrae238e_	_w
------------	------------------	----

	Absolute	Dominant I	ndicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:)	% Cover	Species?		Number of Dominant Species
1. none	0			That Are OBL, FACW, or FAC:3 (A)
2				(,,
				Total Number of Dominant
3				Species Across All Strata: (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC:100 (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 1 =0
Sapling/Shrub Stratum (Plot size: 15)		_		FACW species60
1. none	0			FAC species15 x 3 =45
				FACU species10 x 4 =40
2				
3				UPL species $\begin{array}{c} 0 \\ 85 \\ \end{array}$ $\begin{array}{c} x \ 5 = 0 \\ 205 \\ \end{array}$
4				Column Totals: (A) (B)
5				Prevalence Index = B/A = 2.41
6				Trevalence mack = B/TC =
7				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9	0			✓ 3 - Prevalence Index is ≤3.0¹
0		= Total Cove	r O	4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover:0	20% of	total cover:_		data in Remarks or on a separate sheet)
Herb Stratum (Plot size:5				Problematic Hydrophytic Vegetation ¹ (Explain)
1. Viola cucullata	20	Yes	FACW	Froblematic Trydrophytic Vegetation (Explain)
2. Thalictrum pubescens	20	Yes	FACW	1
3. Onoclea sensibilis	20	Yes	FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Equisetum arvense	10	No	FAC	
5. Fragaria virginiana	10	No	FACU	Definitions of Four Vegetation Strata:
6. Dichanthelium clandestinum	5	No	FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
			170	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
	85	= Total Cove		of size, and woody plants less than 3.28 ft tall.
50% of total cover: 42.5		total cover:_		
Woody Vine Stratum (Plot size: 30)		_		Woody vine – All woody vines greater than 3.28 ft in
1 none	0			height.
·· ·				
2				
3				
4				Hydrophytic
5				Vegetation
	0 :	= Total Cove	r	Present? Yes No No
50% of total cover:0	20% of	total cover:_	0	
Remarks: (Include photo numbers here or on a separate sl	neet.)			
	,			

Profile Desc	ription: (Describe t	o the dep	th needed to docum	nent the i	ndicator	or confirm	the absence	e of indicators.)
Depth	Matrix		Redox	K Features	S1	. 2		
(inches) 0-10	Color (moist) 10YR 3/1	% 100	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u> CL	Remarks
10-16	10YR 4/1	95	10YR 3/6	5	С	M	SICL	
							-	
						· 		
-								
-								
		etion, RM	=Reduced Matrix, MS	=Masked	Sand Gr	ains.		PL=Pore Lining, M=Matrix.
Hydric Soil I								cators for Problematic Hydric Soils ³ :
Histosol			Dark Surface		, -			2 cm Muck (A10) (MLRA 147)
	oipedon (A2)		Polyvalue Bel				148) (Coast Prairie Redox (A16)
Black His			Thin Dark Su	, ,	•	147, 148)		(MLRA 147, 148)
	n Sulfide (A4) I Layers (A5)		Loamy GleyeDepleted Mat		r <i>2)</i>		'	Piedmont Floodplain Soils (F19) (MLRA 136, 147)
	ck (A10) (LRR N)		Redox Dark S	. ,	·6)		,	Very Shallow Dark Surface (TF12)
	Below Dark Surface	(A11)	Depleted Dar	,	,			Other (Explain in Remarks)
Thick Da	ark Surface (A12)	` '	Redox Depre					, ,
	lucky Mineral (S1) (L	RR N,	Iron-Mangane		es (F12) (LRR N,		
	\ 147, 148)		MLRA 136				•	
	leyed Matrix (S4)		Umbric Surfa					dicators of hydrophytic vegetation and
	edox (S5) Matrix (S6)		Piedmont Flo Red Parent M					etland hydrology must be present,
	-ayer (if observed):		Red Parent iv	ialeriai (F.	ZI) (IVILK	A 127, 147	r) ui	nless disturbed or problematic.
Type:	ayer (ii observeu).							
Depth (inc	shas).						Hydric Soi	il Present? Yes No
Remarks:							Tiyane oo	111 Teschi: 163 NO
ixemaiks.								



Wetland data point wrae238e_w facing north



Wetland data point wrae238e_w facing east

Project/Site: Atlantic Coast Pipeline			City/	County: Randolph Cou	nty	Sampling Date: 6/2/2016		
Applicant/Owner: Dominion		State: WV Sampling Point: wrae238_u						
				tion, Township, Range:				
Landform (hillslope, terrace, etc.): ridge						Slope (%):2		
Subregion (LRR or MLRA): N								
Soil Map Unit Name: Udifluvents, cobbly	Lui				NWI classif	fication: UPL		
Are climatic / hydrologic conditions on the		or this tir	ne of year?	Yes V No	(If no, explain in	Remarks.)		
Are Vegetation, Soil, or H								
Are Vegetation, Soil, or H								
SUMMARY OF FINDINGS – At								
Hydrophytic Vegetation Present? Hydric Soil Present?	Yes Yes			Is the Sampled Area				
Wetland Hydrology Present?	Yes			within a Wetland?	Yes	No		
Remarks:	165	110						
HYDROLOGY								
Wetland Hydrology Indicators:					Secondary India	cators (minimum of two required)		
Primary Indicators (minimum of one is r	equired; chec	k all that	apply)		Surface So	il Cracks (B6)		
Surface Water (A1)		True Ad	quatic Plants	(B14)	Sparsely Vegetated Concave Surface (B8)			
High Water Table (A2)		Hydrog	en Sulfide O	dor (C1)	Drainage P	atterns (B10)		
Saturation (A3)				eres on Living Roots (C3) Moss Trim	Lines (B16)		
Water Marks (B1)	_	Presen	ce of Reduce	ed Iron (C4)	Dry-Seasor	n Water Table (C2)		
Sediment Deposits (B2)				on in Tilled Soils (C6)	Crayfish Bu			
Drift Deposits (B3)			uck Surface (Visible on Aerial Imagery (C9)		
Algal Mat or Crust (B4) Iron Deposits (B5)		Otner (Explain in Re	emarks)	· · · · · · · · · · · · · · · · · · ·	Stressed Plants (D1)		
Inundation Visible on Aerial Imager	v (B7)				Shallow Aq	c Position (D2)		
Water-Stained Leaves (B9)	y (D1)					raphic Relief (D4)		
Aquatic Fauna (B13)					FAC-Neutra			
Field Observations:								
Surface Water Present? Yes	No	_ Depth	(inches):					
Water Table Present? Yes	No	Depth	(inches):					
Saturation Present? Yes	No <u> </u>				d Hydrology Prese	ent? Yes No		
(includes capillary fringe) Describe Recorded Data (stream gauge	e. monitorina	well, aeri	ial photos, pr	evious inspections), if a	vailable:			
	,,g .	,	.с. р. отос, р.	ov.ouoop ooo.,, a				
Remarks:								
No hydrology present								

Sampling Point maczoc_c	Sampling	Point: wrae238_	_u
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	Absolute	Dominant In	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size:)			Status	Number of Dominant Species
1. Tsuga canadensis	50	Yes	FACU	That Are OBL, FACW, or FAC: (A)
2. Acer saccharum	30	Yes	FACU	Total Number of Demisses
3. Betula alleghaniensis	20	Yes	FAC	Total Number of Dominant Species Across All Strata: 7 (B)
4.				Species / teleses / till etilatat.
				Percent of Dominant Species That Are ORL FACW or FAC: 28.57142857 (A/R)
5	-			That Are OBL, FACW, or FAC:
6		-		Prevalence Index worksheet:
7	100			Total % Cover of: Multiply by:
		= Total Cover	20	OBL species x 1 = 0
50% of total cover:50	20% of	total cover:		0 0
Sapling/Shrub Stratum (Plot size:)				FACVV species X Z =
1. Hamamelis virginiana	25	Yes	FACU	FAC species
2. Quercus rubra	10	Yes	FACU	FACU species x 4 =
3. Betula populifolia	10	Yes	FAC	UPL species x 5 = 250
4				Column Totals: (A) 840 (B)
5.				100
· · · · · · · · · · · · · · · · · · ·				Prevalence Index = B/A =4.09
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 ¹
		= Total Cover		4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover: 22.5	20% of	total cover:	9	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5				. ,
1. Dryopteris campyloptera	50	Yes	UPL	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Hamamelis virginiana	10	No	FACU	
3				¹ Indicators of hydric soil and wetland hydrology must
4				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		. <u></u> .		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
	60	= Total Cover		of size, and woody plants less than 3.28 ft tall.
50% of total cover: 30		total cover:		
Woody Vine Stratum (Plot size: 30)				Woody vine – All woody vines greater than 3.28 ft in
1. none	0			height.
		 -		
2				
3		·		
4				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 s	heet.)			

Color (moist) % Type Loc Texture Remarks	Depth	Matrix		Redox Features	1 . 2		
ype: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ype: C=Concentration, D=Depletion, RM=Reduced Matrix. Indicators for Problematic Hydric Soils³: ype: C=Concentration, D=Depletation, PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: ype: C=Concentration, D=Depletation, PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: ype: C=Concentration, D=Depletation, PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: ype: C=Concentration, D=Depletation, PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: ype: C=Concentration, D=Depletation, PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: ype: C=Concentration, D=Depletation, MLRA 147, 148) ype: C=Concentration, D=Depletation, MLRA 147, 148) ype: C=Concentration, D=Depletation, PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: ype: C=Concentration, D=Depletation, MLRA 147, 148 ype: Legondor Hydric Soil Pesent? Yes No		Color (moist)	<u>%</u>	Color (moist) % Type	Loc ²	<u>Texture</u>	Remarks
Histosol (A1)	0-10	10YR 3/2	100			CL	
Histosol (A1)							
Histosol (A1)			· 				-
Histosol (A1)			· 				
Histosol (A1)							
Histosol (A1)							
Histosol (A1)							
Histosol (A1)			· 				
Histosol (A1)							
Histosol (A1)							
Histosol (A1)			· 				-
Histosol (A1)			· — —				
Histosol (A1)							
Histosol (A1)	vpe: C=C	oncentration, D=Dep	letion. RM=Re	educed Matrix. MS=Masked Sand	Grains.	² Location: Pl	L=Pore Lining, M=Matrix.
Histosol (A1)			,	, , , , , , , , , , , , , , , , , , , ,			
Histic Epipedon (A2) Black Histic (A3) Thin Dark Surface (S9) (MLRA 147, 148) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Depleted Dark Surface (F6) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Bartified Layers (A5) Depth (inches): 10 Polyvalue Below Surface (S8) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) Piedmont Floodplain Soils (F19) (MLRA 147, 148) Other (Explain in Remarks) Piedmont Floodplain Soils (F12) (LRR N, MLRA 136, 122) Piedmont Floodplain Soils (F19) (MLRA 136, 122) Piedmont Floodplain Soils (F19) (MLRA 148) Wetland hydrology must be present, unless disturbed or problematic.	-			Dark Surface (S7)			
Black Histic (A3)					(MLRA 147.		, , ,
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 (A11) Depleted Dark Surface (F7) Other (Explain in Remarks) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) (LRR N, MLRA 136) Iron-Manganese Masses (F12) (LRR N, MLRA 136) Sandy Gleyed Matrix (S4) MLRA 136) Sandy Redox (S5) Diedmont Floodplain Soils (F19) (MLRA 148) wetland hydrology must be present, Piedmont Floodplain Soils (F21) (MLRA 127, 147) unless disturbed or problematic. Bestrictive Layer (if observed): Type: ROCK Depth (inches): 10 Hydric Soil Present? Yes No ✓				,	•	, 0	
Stratified Layers (A5)					,,	Р	
						 ·	
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4) Stripped Matrix (S6) Stripped Matrix (S6) Estrictive Layer (if observed): Type: Depth (inches): 10 Depleted Dark Surface (F7) Depth (Explain in Remarks) Other (Explain in Remarks) And Control (Explain in Remar						V	
Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Estrictive Layer (if observed): Type: Depth (inches): 10 Redox Depressions (F8) Iron-Manganese Masses (F12) (LRR N, MLRA 136) Umbric Surface (F13) (MLRA 136, 122) Piedmont Floodplain Soils (F19) (MLRA 148) Redox Depressions (F8) Iron-Manganese Masses (F12) (LRR N, MLRA 136) White Matrix (S4) Sindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Hydric Soil Present? Yes No			e (A11)				
Sandy Mucky Mineral (S1) (LRR N,			,			·	, ,
MLRA 147, 148) _ Sandy Gleyed Matrix (S4) _ Sandy Redox (S5) _ Stripped Matrix (S6) _ Type: ROCK Depth (inches): 10 Hydric Soil Present? Yes No	_ Sandy I	Mucky Mineral (S1) (L	RR N,	Iron-Manganese Masses (F12	2) (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):							
Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) unless disturbed or problematic. estrictive Layer (if observed):	_ Sandy (Gleyed Matrix (S4)		Umbric Surface (F13) (MLRA	136, 122)	³ Ind	icators of hydrophytic vegetation and
estrictive Layer (if observed): Type: ROCK Depth (inches): 10 Hydric Soil Present? Yes No	_ Sandy F	Redox (S5)		Piedmont Floodplain Soils (F	19) (MLRA 14	8) we	tland hydrology must be present,
Type: ROCK Depth (inches): 10 Hydric Soil Present? Yes No	Stripped	d Matrix (S6)		Red Parent Material (F21) (M	LRA 127, 147	') unl	less disturbed or problematic.
Depth (inches): 10 Hydric Soil Present? Yes No	estrictive	Layer (if observed):					
Depth (inches): 10 Hydric Soil Present? Yes No	Type: R	OCK		_			
						Hydric Soil	Present? Yes No
		,					
	omano.						



Upland data point wrae238_u facing north



Upland data point wrae238_u facing south

Project/Site: Atlantic Coast Pipeline		City/County: Randolph County Sampling Date: 6/2/2016					
Applicant/Owner: Dominion		State: WV Sampling Point: wrae237e_					
		Section, Township, Range: No PLSS in this area					
Landform (hillslope, terrace, etc.): depress							
Subregion (LRR or MLRA): N							
Soil Map Unit Name: Udifluvents, cobbly				NWI classific	cation: PEM		
Are climatic / hydrologic conditions on the	site typical fo	or this time of year? Y	∕es ✓ No	(If no, explain in F	Remarks.)		
Are Vegetation, Soil, or Hy							
Are Vegetation, Soil, or Hy							
SUMMARY OF FINDINGS – Atta							
Lludrophytic Vacatation Dragont?	Voc. V	No					
Hydrophytic Vegetation Present? Hydric Soil Present?	Yes V	No _ No	Is the Sampled Area	4			
Wetland Hydrology Present?		 No	within a Wetland?	Yes	No		
Remarks:		<u> </u>					
HYDROLOGY							
Wetland Hydrology Indicators:				Secondary Indica	ators (minimum of two required)		
Primary Indicators (minimum of one is re	quired; check	call that apply)		Surface Soil	Cracks (B6)		
Surface Water (A1)		True Aquatic Plants ((B14)	Sparsely Vegetated Concave Surface (B8)			
✓ High Water Table (A2)		Hydrogen Sulfide Od	or (C1)	Drainage Pa	itterns (B10)		
Saturation (A3)		Oxidized Rhizospher	es on Living Roots (C3)	Moss Trim L	ines (B16)		
Water Marks (B1)		Presence of Reduced	d Iron (C4)	Dry-Season	Water Table (C2)		
Sediment Deposits (B2)	_	Recent Iron Reduction	on in Tilled Soils (C6)	Crayfish Bur	rows (C8)		
Drift Deposits (B3)		Thin Muck Surface (0			isible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	_	Other (Explain in Rer	marks)		tressed Plants (D1)		
Iron Deposits (B5)				Geomorphic			
Inundation Visible on Aerial Imagery	(B7)			Shallow Aqu			
Water-Stained Leaves (B9)				Microtopographic Relief (D4)			
Aquatic Fauna (B13)				FAC-Neutra	Test (D5)		
Field Observations:	🗸	5 4 6 1 3					
		Depth (inches):	12				
		Depth (inches):	0				
Saturation Present? Yes (includes capillary fringe)	No	Depth (inches):	Wetland F	lydrology Presei	nt? Yes V No		
Describe Recorded Data (stream gauge,	monitoring w	vell, aerial photos, pre	evious inspections), if ava	ilable:			
Remarks:							

Sampling Po	int: wrae237e_w
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,	Absolute	Dominant Ir	dicator	Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?		
1 none	0			Number of Dominant Species That Are OBL_FACW_or FAC: 2 (A)
· ` `				That Are OBL, FACW, or FAC:2 (A)
2		-		Total Number of Dominant
3				Species Across All Strata: 2 (B)
4				
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
		·		That Are OBL, FACW, OF FAC (A/B)
6		-		Prevalence Index worksheet:
1	0	-		Total % Cover of: Multiply by:
		= Total Cover	_	10 10
50% of total cover:0	20% of	total cover:	0	OBL species X I =
Sapling/Shrub Stratum (Plot size: 15)				FACW species x 2 =
1. none	0			FAC species5 x 3 =15
2		·		FACU species0 x 4 =0
				UPL species 0 x 5 = 0
3		-		105 205
4				Column Totals: (A) (B)
5				Prevalence Index = B/A = 1.95
6				Trevalence mack = B//(=
7			-	Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9				✓ 3 - Prevalence Index is ≤3.0 ¹
	0	= Total Cover		4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover:0	20% of	total cover:	0	
Herb Stratum (Plot size:				data in Remarks or on a separate sheet)
1 Viola cucullata	50	Yes	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Leersia virginica	20	Yes	FACW	
				¹ Indicators of hydric soil and wetland hydrology must
3. Carex canescens	10	No	OBL	be present, unless disturbed or problematic.
4. Juncus effusus	10	No	FACW	Definitions of Four Vegetation Strata:
5. Impatiens capensis	10	No	FACW	Deminions of Four Vegetation Strata.
6. Dichanthelium clandestinum	5	No	FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
				more in diameter at breast height (DBH), regardless of
7		-		height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11.		· <u></u> -		
	105			Herb – All herbaceous (non-woody) plants, regardless
50% of total cover: 52.5		= Total Cover total cover:		of size, and woody plants less than 3.28 ft tall.
00	20% 01	total cover:		Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size:)				height.
1. <u>none</u>	0			
2.				
3		· <u></u> -		
4				Hydrophytic
5		-		Vegetation
		= 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	neet.)			
	,			

	cription: (Describe	to the de				or confirn	n the absend	ce of indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Feature %	S Type ¹	Loc²	Texture	Remarks
0-6	10YR 4/1	90	10YR 3/6	10	C Type	PL	CL	Nemans
6-14	10YR 3/1	80	10YR 6/1	10			CL	_
0-14	101K 3/1					- ——		_
			10YR 3/6	10	C	PL		
		-					-	
							-	_
	·			-		· ·		- -
	Concentration, D=Depl	letion, RM	I=Reduced Matrix, M	S=Masked	d Sand Gr	ains.		PL=Pore Lining, M=Matrix.
lydric Soil	Indicators:						Ind	icators for Problematic Hydric Soils ³ :
Histoso			Dark Surface					2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be				, 148)	Coast Prairie Redox (A16)
	listic (A3)		Thin Dark St			147, 148)		(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gley		(F2)		_	Piedmont Floodplain Soils (F19)
	ed Layers (A5) uck (A10) (LRR N)		✓ Depleted Ma✓ Redox Dark		=e)			(MLRA 136, 147) Very Shallow Dark Surface (TF12)
	ed Below Dark Surface	- (Δ11)	Depleted Da	•	,			Other (Explain in Remarks)
	Park Surface (A12)	3 (7111)	Redox Depre					Other (Explain in Remains)
	Mucky Mineral (S1) (L	.RR N,	Iron-Mangar			LRR N,		
	A 147, 148)	,	MLRA 13		, , ,	,		
	Gleyed Matrix (S4)		Umbric Surfa	ace (F13)	(MLRA 13	36, 122)	³ lı	ndicators of hydrophytic vegetation and
Sandy	Redox (S5)		Piedmont Flo	oodplain S	oils (F19)	(MLRA 14		wetland hydrology must be present,
Strippe	d Matrix (S6)		Red Parent I	Material (F	21) (MLR	A 127, 14	7) (unless disturbed or problematic.
Restrictive	Layer (if observed):							
Type:								
Depth (ir	nches):						Hydric So	oil Present? Yes No
Remarks:								



Wetland data point wrae237e_w facing west



Wetland data point wrae237e_w facing east

Project/Site: Atlantic Coast Pipeline		City/County: Randolph County Sampling Date: 6/2/2016					
Applicant/Owner: Dominion		State: WV Sampling Point: wrae237					
Investigator(s): CG, RP		Section, Township, Range: No PLSS in this area					
• (,		Local relief (concave, convex, none): convex Slope (%):2					
Subregion (LRR or MLRA): N							
Soil Map Unit Name: Udifluvents, cobb	oly	•	25119	NWI classific	cation: UPL		
Are climatic / hydrologic conditions on		for this time of year?	Yes No	(If no, explain in F	Remarks.)		
Are Vegetation, Soil, or	r Hydrology	significantly dist	urbed? Are "Normal	l Circumstances"	present? Yes V No		
Are Vegetation, Soil, or							
SUMMARY OF FINDINGS – A							
Hydrophytic Vegetation Present?	Yes	No 🗸					
Hydric Soil Present?		No	Is the Sampled Area	Vaa	No ✓		
Wetland Hydrology Present?	Yes		within a Wetland?	Yes	NO		
HYDROLOGY							
Wetland Hydrology Indicators:					ators (minimum of two required)		
Primary Indicators (minimum of one is	-			Surface Soil			
Surface Water (A1)		True Aquatic Plants			getated Concave Surface (B8)		
High Water Table (A2)		Hydrogen Sulfide C		=	atterns (B10)		
Saturation (A3)			eres on Living Roots (C3)		Moss Trim Lines (B16) Dry-Season Water Table (C2)		
Water Marks (B1) Sediment Deposits (B2)		Presence of Reduc	tion in Tilled Soils (C6)	Crayfish Bur			
Sediment Deposits (B2) Drift Deposits (B3)		Thin Muck Surface		-	isible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)		Other (Explain in R			Stressed Plants (D1)		
Iron Deposits (B5)	_		,		Position (D2)		
Inundation Visible on Aerial Imag	jery (B7)			Shallow Aqu			
Water-Stained Leaves (B9)				Microtopogra	aphic Relief (D4)		
Aquatic Fauna (B13)				FAC-Neutra	l Test (D5)		
Field Observations:							
		_ Depth (inches):					
		_ Depth (inches):					
Saturation Present? Yes _ (includes capillary fringe)	No	_ Depth (inches):	Wetland H	Hydrology Prese	nt? Yes No		
Describe Recorded Data (stream gau	ige, monitoring v	well, aerial photos, p	previous inspections), if ava	ailable:			
Remarks:							
No hydrology present							

Sampling Point: wrae237_u

,	A I I I -	·	Perter	Denvisore Test weeks at
Tree Stratum (Plot size: 30)	Absolute	Dominant In		Dominance Test worksheet:
TICC CHARAIT (FICE SIZE.	% Cover 70		Status FACU	Number of Dominant Species
1. Tsuga canadensis		Yes		That Are OBL, FACW, or FAC: 2 (A)
2. Acer pensylvanicum	10	No	FACU	
3. Betula populifolia	10	No	FAC	Total Number of Dominant
	10	No	FAC	Species Across All Strata: (B)
4. Carpinus caroliniana				Percent of Dominant Species
5. Acer saccharum	10	No	FACU	That Are OBL, FACW, or FAC: 40 (A/B)
6. Prunus serotina	5	No	FACU	(10b)
				Prevalence Index worksheet:
7	-445			Total % Cover of: Multiply by:
	115	= Total Cover		
50% of total cover:57.5	20% of	total cover:	23	OBL species x 1 =0
Sapling/Shrub Stratum (Plot size: 15)				FACW species0 x 2 =0
1 Betula populifolia	25	Yes	FAC	FAC species 60 x 3 = 180
				105
2. Acer pensylvanicum	10	Yes	FACU	FACU species x 4 =
2				UPL species 20 x 5 = 100
3				185 700
4				Column Totals: (A) (B)
5				Prevalence Index = B/A = 3.78
				Prevalence Index = B/A =3.78
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				
				2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 ¹
	35	= Total Cover		4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover:17.5	20% of	total cover:	7	
Herb Stratum (Plot size: 5)			,	data in Remarks or on a separate sheet)
·	20		LIDI	Problematic Hydrophytic Vegetation ¹ (Explain)
1. Dryopteris campyloptera	20	Yes	UPL	<u> </u>
2. Betula populifolia	10	Yes	FAC	
3. Smilax rotundifolia	5	No	FAC	¹ Indicators of hydric soil and wetland hydrology must
3. <u></u>				be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				
l <u>-</u>				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.				Horto All barbaccour (non march) plants recording
	35	T-1-1-0		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
17.5		= Total Cover		of size, and woody plants less than 3.20 it tall.
50% of total cover:17.5	20% of	total cover:		Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size:)				height.
1. none	0			- no.g.m
2				
3				
4				
				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 s	neet.)			

Sampling Point: wrae237_u

	cription: (Describe t	o the depth				or confirm	the absence	of indicat	ors.)		
Depth	Matrix	<u></u> %	Redo Color (moist)	x Features	Type ¹	Loc ²	Tovt		Dames	ko	
(inches) 0-4	Color (moist) 10YR 3/2	100	COIOI (INOIST)	%	туре	LUC	<u>Texture</u> L		Remar	KS.	
	1011(5/2										
			_					·			
					-						
					-						
1					-						
	oncentration, D=Depl	etion, RM=R	Reduced Matrix, MS	S=Masked	Sand Gra	ains.	² Location: P				3
•	Indicators:								roblematic	-	olis :
Histoso			Dark Surface	. ,					(A10) (MLR		
	pipedon (A2)		Polyvalue Be				148) C		e Redox (A	16)	
	istic (A3)		Thin Dark Su			47, 148)	_	(MLRA 14		" (540)	
	en Sulfide (A4)		Loamy Gleye		F2)		P		oodplain So	DIIS (F19)	
	d Layers (A5)		Depleted Mar		·c)		V	(MLRA 1		ooo (TE40)	
	uck (A10) (LRR N) d Below Dark Surface	. (Δ11)	Redox Dark S Depleted Dar	•	,				w Dark Surf ain in Rema)
	ark Surface (A12)	(Д11)	Redox Depre					illei (Expid	alli ili iXeilia	iko)	
	Mucky Mineral (S1) (L	RR N	Iron-Mangan			I RR N					
	A 147, 148)	IXIX I X ,	MLRA 13		JS (1 12) (,					
	Gleyed Matrix (S4)		Umbric Surfa	-	MIRA 13	6. 122)	³ Ind	icators of h	ydrophytic	vegetation	and
	Redox (S5)		Piedmont Flo						ology must l	-	
	d Matrix (S6)		Red Parent N					-	ped or probl		,
Restrictive	Laver (if observed):				, (,	,		70 a 0. p. 00.		
Type: R	OCK										
Depth (in	uchoo): 4						Hydric Soil	Drocont?	Voc	No	/
							Hydric Soil	rieseiit?	Yes	NO_	
Remarks:											
Refusal at 4"											



Upland data point wrae237_u facing south



Upland data point wrae237_u facing west

Project/Site: Atlantic Coast Pipeline	City/C	City/County: Randolph County Sampling Date: 6/2/2016					
Applicant/Owner: Dominion		State: WV Sampling Point: wrae2					
		Section, Township, Range: No PLSS in this area					
Landform (hillslope, terrace, etc.): drainage							
Subregion (LRR or MLRA): N	Lat: -80.15879999	Long: 38.58	3415866	Datum: WGS 1984			
Soil Map Unit Name: Buchanan and Ernest si	ony soils, 15 to 35 percent slop	oes	NWI classifica	ation: PEM			
Are climatic / hydrologic conditions on the site	typical for this time of year? Y	′es <u> </u>	f no, explain in Re	emarks.)			
Are Vegetation, Soil, or Hydro	logy significantly distur	bed? Are "Normal	Circumstances" p	resent? Yes No			
Are Vegetation, Soil, or Hydro							
SUMMARY OF FINDINGS – Attach							
Hydric Soil Present? Ye	s	Is the Sampled Area within a Wetland?	Yes_	No			
Wetland Hydrology Present? Ye	es <u>/</u> No						
HYDROLOGY							
Wetland Hydrology Indicators:				tors (minimum of two required)			
Primary Indicators (minimum of one is require			Surface Soil 0				
Surface Water (A1)	True Aquatic Plants (etated Concave Surface (B8)			
✓ High Water Table (A2)✓ Saturation (A3)	Hydrogen Sulfide Od Oxidized Rhizospher		✓ Drainage Pati				
Water Marks (B1)	Oxidized Knizospher		Moss Trim Lir	Vater Table (C2)			
Sediment Deposits (B2)	Recent Iron Reduction		Crayfish Burr				
Drift Deposits (B3)	Thin Muck Surface (0		-	sible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	Other (Explain in Rer			ressed Plants (D1)			
Iron Deposits (B5)		,	Geomorphic I	, ,			
Inundation Visible on Aerial Imagery (B7	7)		Shallow Aquit	tard (D3)			
✓ Water-Stained Leaves (B9)			Microtopographic Relief (D4)				
Aquatic Fauna (B13)			FAC-Neutral	Test (D5)			
Field Observations:							
	No Depth (inches):						
	No Depth (inches):	0					
	No Depth (inches):	0 Wetland H	ydrology Presen	t? Yes / No			
(includes capillary fringe) Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, pre	evious inspections), if avail	lable:				
Domorko							
Remarks:							

٧

30	Absolute	Dominant Ir		Dominance Test worksheet:
ree Stratum (Plot size:30) none	% Cover 0	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC: 4
				Total Number of Dominant Species Across All Strata: 4 (f
				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (/
				Prevalence Index worksheet:
				Total % Cover of: Multiply by:
50% of total cover:		= Total Cover total cover:	0	OBL species 5 x 1 = 5
apling/Shrub Stratum (Plot size: 15	20 % 01	total cover		FACW species 70 x 2 = 140
none	.)			FAC species $20 \times 3 = 60$
				FACU species
				UPL species 0 x 5 = 0
				95 205
<u> </u>				Column Totals: (A)
·				Prevalence Index = B/A = 2.15
				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
				2 - Dominance Test is >50%
				✓ 3 - Prevalence Index is ≤3.0 ¹
	0	= Total Cove	r	
50% of total cover: _	0 20% of	total cover:	0	4 - Morphological Adaptations ¹ (Provide suppo
lerb Stratum (Plot size:5				data in Remarks or on a separate sheet)
Leersia virginica	30	Yes	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
Viola cucullata	20	Yes	FACW	
Boehmeria cylindrica	20	Yes	FACW	¹ Indicators of hydric soil and wetland hydrology mus
Solidago rugosa	20	Yes	FAC	be present, unless disturbed or problematic.
Carex lupulina		No	OBL	Definitions of Four Vegetation Strata:
			ODL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm
				more in diameter at breast height (DBH), regardless
				height.
•				Sapling/Shrub – Woody plants, excluding vines, le
				than 3 in. DBH and greater than or equal to 3.28 ft
0				m) tall.
1				Herb – All herbaceous (non-woody) plants, regardle
		= Total Cove		of size, and woody plants less than 3.28 ft tall.
50% of total cover: _	47.5 20% of	total cover:	19	Woody vine – All woody vines greater than 3.28 ft
Voody Vine Stratum (Plot size: 30)				height.
none	0			_
				Hydrophytic Vegetation
	0	= Total Cove		Present? Yes No
50% of total cover:		total cover:	_	
	<u> </u>	10101 00101		
Remarks: (Include photo numbers here or on a sepa	rate sneet.)			

Sampling Point: wrae236e_w

Profile Desc	ription: (Describe t	o the depth	needed to docur	nent the i	ndicator	or confirm	the abse	nce of indica	tors.)		
Depth	Matrix			x Features	3	. 2	_		_		
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Textur	<u> </u>	Remar	ks	
	-										
											
1 _T C. C.		-tion DM Da	alica al Matrico Mi	- Maalaad	C		21	DI Dava II	uiu n M Mad		
	ncentration, D=Depl	etion, RIVI=Re	educed Matrix, Mi	s=IVIasked	Sand Gra	ains.		n: PL=Pore Li			-:1-3.
Hydric Soil I							ır	dicators for		-	olis":
Histosol			Dark Surface				_		(A10) (MLR		
Histic Ep	ipedon (A2)		Polyvalue Be	low Surfa	ce (S8) (N	ILRA 147,	148) _	_ Coast Prair	rie Redox (A	16)	
Black His	stic (A3)		Thin Dark Su	rface (S9)	(MLRA 1	47, 148)		(MLRA 1	147, 148)		
Hydroge	n Sulfide (A4)		Loamy Gleye	ed Matrix (F2)			Piedmont F	loodplain So	oils (F19)	
	Layers (A5)		Depleted Ma		,				136, 147)	, ,	
	ck (A10) (LRR N)		Redox Dark		6)				ow Dark Surf	ace (TF12))
	Below Dark Surface	(A11)	Depleted Dai				_		lain in Rema		'
	rk Surface (A12)	(, (, 1, 1,	Redox Depre				_	0.1101 (2.45	iani in rtomo		
		DD N				DDM					
	ucky Mineral (S1) (L	KK N,	Iron-Mangan		35 (F 12) (1	LKK N,					
	147, 148)		MLRA 13	-				3			
	leyed Matrix (S4)		Umbric Surfa					³ Indicators of		-	
	edox (S5)		Piedmont Flo					wetland hyd	rology must	be present	,
Stripped	Matrix (S6)		Red Parent N	/laterial (F	21) (MLR .	A 127, 147	7)	unless distu	rbed or prob	lematic.	
Restrictive L	ayer (if observed):										
Type:											
Depth (inc	shoc):		_				Hydric	Soil Present?) Voc	No	~
	nes)		_				пуштс	Son Fresent	Yes	NO_	
Remarks:											
No soil pit due	to cobble and grave	I at 0"									



Wetland data point wrae236e_w facing west



Wetland data point wrae236e_w facing east

Project/Site: Atlantic Coast Pipeline		City/County: Randolph County Sampling Date: 6/2/2016				
Applicant/Owner: Dominion		State: WV Sampling Point: wrae				
		Section, Township, Range: No PLSS in this area				
Landform (hillslope, terrace, etc.): road					Slope (%): 10	
Subregion (LRR or MLRA): N					Datum: WGS 1984	
Soil Map Unit Name: Buchanan and Err	nest stony soils	s, 15 to 35 percent slo	opes	NWI classific	cation: UPL	
Are climatic / hydrologic conditions on the	ne site typical f	for this time of year?	Yes No	(If no, explain in F	Remarks.)	
Are Vegetation, Soil, or	Hydrology	significantly distu	ırbed? Are "Normal	Circumstances" ı	present? Yes No	
Are Vegetation, Soil, or						
SUMMARY OF FINDINGS – A						
Hydrophytic Vegetation Present?	Yes	No 🗸				
Hydric Soil Present?		No 🗸	Is the Sampled Area within a Wetland?	Vos	No	
Wetland Hydrology Present?	Yes		within a wettand?	1es		
HADBOLOGA						
HYDROLOGY				Casandamiladia	otoro (minimum of two required)	
Wetland Hydrology Indicators:		ale all that awales		·	ators (minimum of two required)	
Primary Indicators (minimum of one is	-		(D44)	 Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) 		
Surface Water (A1) High Water Table (A2)		True Aquatic Plants Hydrogen Sulfide O				
Saturation (A3)				Moss Trim L		
Water Marks (B1)		Presence of Reduce		Nicos Triff Effect (B10) Dry-Season Water Table (C2)		
Sediment Deposits (B2)			on in Tilled Soils (C6)	Crayfish Bur		
Drift Deposits (B3)		Thin Muck Surface (isible on Aerial Imagery (C9)	
Algal Mat or Crust (B4)	_	Other (Explain in Re	emarks)	Stunted or S	Stressed Plants (D1)	
Iron Deposits (B5)				Geomorphic	Position (D2)	
Inundation Visible on Aerial Image	ry (B7)			Shallow Aqu		
Water-Stained Leaves (B9)					aphic Relief (D4)	
Aquatic Fauna (B13)				FAC-Neutra	Test (D5)	
Field Observations:		5 4 ()				
		_ Depth (inches):				
		_ Depth (inches):		landarda ara Danasa		
Saturation Present? Yes (includes capillary fringe)	NO _•	_ Depth (inches):	wetland F	iyarology Presei	nt? Yes No	
Describe Recorded Data (stream gaug	je, monitoring v	well, aerial photos, pr	evious inspections), if ava	ilable:		
Demonto						
Remarks: No hydrology present						
The Hydrology process						

Sampling Point: wrae236_u

00	Absolute	Dominant In		Dominance Test worksheet:
Tree Stratum (Plot size:)			Status	Number of Dominant Species
1. Tsuga canadensis	30	Yes	FACU	That Are OBL, FACW, or FAC:0 (A)
2. Acer saccharum	25	Yes	FACU	Total Number of Deminent
3. Prunus serotina	15	No	FACU	Total Number of Dominant Species Across All Strata: 4 (B)
4 Fagus grandifolia	10	No	FACU	Operics / toross / till othata.
5. Magnolia tripetala	10	No	FACU	Percent of Dominant Species
<u> </u>				That Are OBL, FACW, or FAC:0 (A/B)
6				Prevalence Index worksheet:
7				
		= Total Cover		
50% of total cover: 45	20% of	total cover:	18	ODL species
Sapling/Shrub Stratum (Plot size: 15				FACW species x 2 =
1. Betula lenta	25	Yes	FACU	FAC species5 x 3 =15
2. Acer pensylvanicum	5	No	FACU	FACU species135 x 4 =540
		·		UPL species60 x 5 =300
3		-		Column Totals: 200 (A) 855 (B)
4		-		Column rotals (A) (B)
5				Prevalence Index = B/A =4.27
6				Hydrophytic Vegetation Indicators:
7				
8		·		1 - Rapid Test for Hydrophytic Vegetation
	-	·		2 - Dominance Test is >50%
9	30	T		3 - Prevalence Index is ≤3.0 ¹
50% of total cover: 15		= Total Cover	6	4 - Morphological Adaptations ¹ (Provide supporting
5070 01 total 00701	20% of	total cover:		data in Remarks or on a separate sheet)
Herb Stratum (Plot size:5				Problematic Hydrophytic Vegetation ¹ (Explain)
1. Dryopteris campyloptera	60	Yes	UPL	1 Toblematic Trydrophytic Vegetation (Explain)
2. Betula lenta	10	No	FACU	1
3. Magnolia tripetala	5	No	FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4 Acer rubrum	5	No	FAC	
5				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.				
	80	Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 40		= Total Cover total cover:	16	or size, and woody plants less than 5.20 it tall.
30 % of total cover	20% 01	total cover		Woody vine – All woody vines greater than 3.28 ft in
vvoody vine ottatum (i lot size.	0			height.
1. none	0			
2				
3				
4		·		
5.	-	·		Hydrophytic
J				Vegetation Present? Yes No
0		= Total Cover	0	11030HC: 103 NO
50% of total cover:0	20% of	total cover:		
Remarks: (Include photo numbers here or on a separate s	heet.)			

Depth	Matrix		Redox Features		
(inches)	Color (moist)	<u>%</u>	Color (moist) % Type ¹ Lo	c ² <u>Textu</u>	re Remarks
0-4	7.5YR 3/2	100		L	
4-12	7.5YR 4/4	100		CL	
					 -
					·
	-				
		 -		2	
		letion, RM=R	educed Matrix, MS=Masked Sand Grains.		on: PL=Pore Lining, M=Matrix.
ydric Soil	Indicators:			ŀ	ndicators for Problematic Hydric Soils ³ :
Histosol			Dark Surface (S7)	_	2 cm Muck (A10) (MLRA 147)
_ Histic E	pipedon (A2)		Polyvalue Below Surface (S8) (MLRA	. 147, 148)	Coast Prairie Redox (A16)
_ Black Hi	stic (A3)		Thin Dark Surface (S9) (MLRA 147, 1	48)	(MLRA 147, 148)
_ Hydroge	n Sulfide (A4)		Loamy Gleyed Matrix (F2)	_	Piedmont Floodplain Soils (F19)
_ Stratified	d Layers (A5)		Depleted Matrix (F3)		(MLRA 136, 147)
_ 2 cm Mu	ick (A10) (LRR N)		Redox Dark Surface (F6)	_	Very Shallow Dark Surface (TF12)
_ Depleted	d Below Dark Surfac	e (A11)	Depleted Dark Surface (F7)	_	Other (Explain in Remarks)
_ Thick Da	ark Surface (A12)		Redox Depressions (F8)		
_ Sandy N	lucky Mineral (S1) (I	LRR N,	Iron-Manganese Masses (F12) (LRR	N,	
MLRA	\ 147, 148)		MLRA 136)		
Sandy G	Bleyed Matrix (S4)		Umbric Surface (F13) (MLRA 136, 12	2)	³ Indicators of hydrophytic vegetation and
	dedox (S5)		Piedmont Floodplain Soils (F19) (MLF		wetland hydrology must be present,
	Matrix (S6)		Red Parent Material (F21) (MLRA 12)		unless disturbed or problematic.
	_ayer (if observed)				·
Type:	,				
	ab a a \ .		_	Usalnia	Sail Breaant? Van Na V
	ches):		_	пуагіс	Soil Present? Yes No
emarks:					



Upland data point wrae236_u facing south



Upland data point wrae236_u facing east

Project/Site: Atlantic Coast Pipeline		City/County: Randolph County Sampling Date: 6/17/2016					
Applicant/Owner: Dominion		State: WV Sampling Point: wrae2					
		Section, Township, Range: No PLSS in this area					
Landform (hillslope, terrace, etc.): drai							
Subregion (LRR or MLRA). N	Lat:	38.58236354	Long: -80.	15676888	Datum: WGS 1984		
Soil Map Unit Name: Udorthents, mud	stone and shale	low base		NWI classific	cation: PEM		
Are climatic / hydrologic conditions on	the site typical fo	or this time of year? Y	′es No	(If no, explain in F	Remarks.)		
Are Vegetation, Soil, or	Hydrology	, significantly distur	bed? Are "Normal	I Circumstances"	present? Yes No		
Are Vegetation, Soil, or							
SUMMARY OF FINDINGS – A							
Hydrophytic Vegetation Present?	Vac 🗸	_ No					
Hydric Soil Present?	Yes V	No	Is the Sampled Area	v V	N-		
Wetland Hydrology Present?		No	within a Wetland?	Yes	No		
Remarks:							
HYDROLOGY							
Wetland Hydrology Indicators:				Secondary Indica	ators (minimum of two required)		
Primary Indicators (minimum of one is	s required; checl	k all that apply)		Surface Soil	Cracks (B6)		
Surface Water (A1)		True Aquatic Plants (B14)	Sparsely Ve	getated Concave Surface (B8)		
High Water Table (A2)		Hydrogen Sulfide Od	or (C1)	✓ Drainage Pa	atterns (B10)		
Saturation (A3)		Oxidized Rhizospher	es on Living Roots (C3)	Moss Trim L	ines (B16)		
Water Marks (B1)		Presence of Reduced	d Iron (C4)	Dry-Season	Water Table (C2)		
Sediment Deposits (B2)		Recent Iron Reduction	n in Tilled Soils (C6)	Crayfish Bu	rrows (C8)		
Drift Deposits (B3)		Thin Muck Surface (0	C7)	Saturation V	isible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)		Other (Explain in Rer	marks)	Stunted or S	Stressed Plants (D1)		
Iron Deposits (B5)				Geomorphic	Position (D2)		
Inundation Visible on Aerial Imag	jery (B7)			Shallow Aqu	uitard (D3)		
Water-Stained Leaves (B9)				Microtopographic Relief (D4)			
Aquatic Fauna (B13)				FAC-Neutra	I Test (D5)		
Field Observations:							
<u> </u>		Depth (inches):					
		Depth (inches):					
Saturation Present? Yes _ (includes capillary fringe)	<u> </u>	Depth (inches):	0 Wetland F	lydrology Prese	nt? Yes / No		
Describe Recorded Data (stream gau	ige, monitoring v	vell, aerial photos, pre	evious inspections), if ava	ailable:			
Devente							
Remarks:							

	Aheoluta	Dominant I	ndicator	
<u>Free Stratum</u> (Plot size:)	Absolute % Cover	Dominant I Species?		Dominance Test worksheet:
none	0	<u> </u>	<u> </u>	Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A
				Total Number of Dominant
l				Species Across All Strata:
l				
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100
				That Are OBE, FACW, of FAC.
•				Prevalence Index worksheet:
·	0			Total % Cover of: Multiply by:
50% of total cover: 0		= Total Cove	^	OBL species 60 x 1 = 60
15	20% 01	total cover:_		FACW species 50 x 2 = 100
Sapling/Shrub Stratum (Plot size:)	0			0
none	0			FAC species x 3 = 0
2				FACU species x 4 =
3				UPL species x 5 =
l				Column Totals:110 (A)160
5.				1.45
				Prevalence Index = B/A =1.45
				Hydrophytic Vegetation Indicators:
7	-			1 - Rapid Test for Hydrophytic Vegetation
3				✓ 2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 ¹
		= Total Cove	_	4 - Morphological Adaptations ¹ (Provide suppo
50% of total cover:0	20% of	total cover:_	0	
Herb Stratum (Plot size:5				data in Remarks or on a separate sheet)
_{1.} Carex lurida	60	Yes	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
Viola cucullata	20	No	FACW	
3. Impatiens capensis	15	No	FACW	¹ Indicators of hydric soil and wetland hydrology mu
Boehmeria cylindrica	15	No	FACW	be present, unless disturbed or problematic.
''			TAOW	Definitions of Four Vegetation Strata:
5	-			Tree – Woody plants, excluding vines, 3 in. (7.6 cm
6				more in diameter at breast height (DBH), regardles
7				height.
3				
9.				Sapling/Shrub – Woody plants, excluding vines, let
10	-	·		than 3 in. DBH and greater than or equal to 3.28 ft m) tall.
	-	· ——		
11	110			Herb – All herbaceous (non-woody) plants, regardl
f		= Total Cove		of size, and woody plants less than 3.28 ft tall.
50% of total cover: 55	20% of	total cover:_		Woody vine – All woody vines greater than 3.28 ft
Noody Vine Stratum (Plot size:)				height.
1. none	0			
2				
3				
4.				
<u> </u>	-			Hydrophytic
J	0			Vegetation Present? Yes No
50% of total cover: 0		= Total Cove	er O	11050ik. 105 NO
0070 01 total 00V01:		total cover:_		
Remarks: (Include photo numbers here or on a separate	sheet.)			

Profile Description: (Describe to the de	oth needed to document the indicator or confirm	the absence of indicators.)
Depth Matrix	Redox Features	
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture Remarks
0-16 10YR 3/1 90	10YR 3/6 10 C M	SCL
		
¹ Type: C=Concentration, D=Depletion, RM	=Reduced Matrix, MS=Masked Sand Grains.	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:		Indicators for Problematic Hydric Soils ³ :
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)	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)	<u> </u>
Sandy Mucky Mineral (S1) (LRR N,	Iron-Manganese Masses (F12) (LRR N,	
MLRA 147, 148)	MLRA 136)	
Sandy Gleyed Matrix (S4)	Umbric Surface (F13) (MLRA 136, 122)	³ Indicators of hydrophytic vegetation and
Sandy Gleyed Matrix (34) Sandy Redox (S5)	Piedmont Floodplain Soils (F19) (MLRA 148	
Stripped Matrix (S6) Restrictive Layer (if observed):	Red Parent Material (F21) (MLRA 127, 147)	unless disturbed or problematic.
Type:		,
Depth (inches):	<u> </u>	Hydric Soil Present? Yes No
Remarks:		



Wetland data point wrae255e_w facing southwest



Wetland data point wrae255e_w facing northeast

Project/Site: Atlantic Coast Pipeline		City/0	County: Randolph County	/	Sampling Date: 6/17/2016
Applicant/Owner: Dominion				State: WV	Sampling Point: wrae255_u
Investigator(s): CG, SA			ion, Township, Range: No		
Landform (hillslope, terrace, etc.): spoi					
Subregion (LRR or MLRA): N					
Soil Map Unit Name: Udorthents, muds	stone and shale	e, low base	Long	NWI classific	cation: UPL
Are climatic / hydrologic conditions on t					
Are Vegetation, Soil, or	Hydrology	significantly distu	rbed? Are "Normal	Circumstances"	present? Yes No
Are Vegetation, Soil, or					
SUMMARY OF FINDINGS – A					
Hydrophytic Vegetation Present?	Yes	No 🗸	I		
Hydric Soil Present?		No	Is the Sampled Area within a Wetland?	Voc	No 🗸
Wetland Hydrology Present?	Yes		within a wettand?	165	NO
HADBOLOCA					
HYDROLOGY				Coondon India	otoro (minimum of two required)
Wetland Hydrology Indicators:		all that amount o			ators (minimum of two required)
Primary Indicators (minimum of one is	-		(D4.4)	Surface Soil	
Surface Water (A1) High Water Table (A2)		True Aquatic Plants Hydrogen Sulfide Oc		Sparsely ve	getated Concave Surface (B8)
Saturation (A3)				Moss Trim L	
Water Marks (B1)		Presence of Reduce	-		Water Table (C2)
Sediment Deposits (B2)		Recent Iron Reduction		Crayfish Bur	
Drift Deposits (B3)		Thin Muck Surface (-	isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Other (Explain in Re	marks)	Stunted or S	tressed Plants (D1)
Iron Deposits (B5)				Geomorphic	Position (D2)
Inundation Visible on Aerial Imag	ery (B7)			Shallow Aqu	
Water-Stained Leaves (B9)					aphic Relief (D4)
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)
Field Observations:	./	Danille Cardinal			
		Depth (inches): Depth (inches):			
		_ Depth (inches): _ Depth (inches):		ludrologu Drocor	nt? Yes No
(includes capillary fringe)	NO	_ Depth (inches):	wetland F	iyarology Preser	nt? Yes No
Describe Recorded Data (stream gau	ge, monitoring	well, aerial photos, pro	evious inspections), if ava	ilable:	
Demodes					
Remarks: No hydrology present					
The Hydrology processic					

Sampling Point: wrae255_u

Acer saccharum		Absolute	Dominant I	ndicator	Dominance Test worksheet:
Provisions americana	Tree Stratum (Plot size:)				
Sampling/shrub Stratum (Plot size: 5 5 7es FACU 1- Facul					That Are OBL, FACW, or FAC:1 (A)
Septimarkind Sept					Total Number of Dominant
Percent of Dominant Species Total Cover	3. Acer pensylvanicum	5	No	FACU	
5.	4				Barrant of Barrinant Caracina
Sapling/Shrub Stratum (Plot size: 15 15 15 15 14 14 15 15	5				
Total Cover	6				
Sapling/Shrub Stratum (Plot size: 15 15 15 15 15 15 15 15	7.				Prevalence Index worksheet:
Sapiling/Shrub Stratum (Plot size: 15 15 15 74 15 15 74 15 75 15 15 15 15 15 15		70	= Total Cove		
Name	50% of total cover: 35				Obl species X i =
Acer pensylvanicum	Sapling/Shrub Stratum (Plot size: 15)				FACW species x 2 =
2	1. Acer saccharum	15	Yes	FACU	FAC species x 3 =
3. Tsuga canadensis 4. Betula alleghaniensis 5 Yes FACU 5. Fagus grandifolia 6. Acer pensylvanicum 5 Yes FACU 7.	2 Magnolia acuminata	5	Yes	FACU	FACU species138 x 4 =552
A Betula alleghaniensis		5	Yes	FACU	UPL species 15 x 5 = 75
5. Fagus grandifolia 6. Acer pensylvanicum 5. Fagus grandifolia 7. Facus		5	Yes	FAC	Column Totals: 161 (A) 651 (B)
Prevalence Index = BIA = 4.04					(-)
Herb Stratum (Plot size: 5) Elements Stratum (Plot size: 30) Elements Stratum (Plot size: 5) Elements Stratum (Plot size: 30) Elements Stratum (Plot size: 5) Elements Stratum (Plot size: 30) Eleme					Prevalence Index = B/A = 4.04
8.	6. Acer pensylvanicum		165	FACU	Hydrophytic Vegetation Indicators:
8. 9.	7				
3 - Prevalence Index is ≤3.0¹ 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) 4 - Morphological Adaptations¹ (Explain) 4 - Morphological Adaptations¹ (Explain) 4 - Morphological Adaptations¹ (Explain) 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) 15 Yes FACU 1 -	8				
Sow of total cover: 20 20% of total cover: 8 20% of total cover: 20% of total co	9				_
Sum of total cover: 25 20% of total cover: 3 20% of total cover: 2 2 20% of total cover: 3 2 20% of total cover: 3 2 20% of total cover: 3 2 2 2 2 2 2 2 2 2		40	= Total Cove		
Herb Stratum (Plot size:) 15 Yes UPL 2. Problematic Hydrophytic Vegetation (Explain) 1. Eurybia macrophylla 2. Polystichum acrostichoides 5 Yes FACU Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Sapling/Shrub - Woody plants, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Woody vine Stratum (Plot size:	50% of total cover: 20	20% of	total cover:_	8	
Parthenocissus quinquefolia 3 Parthenocissus quinquefolia 4 Tsuga canadensis 5 Yes FACU 4 Tsuga canadensis 5 Yes FACU 5 Acer pensylvanicum 5 Yes FACU 6 Juncus tenuis 7 Potentilla simplex 8 Sepantion	(1 lot size:)				, , , , , , , , , , , , , , , , , , , ,
Parthenocissus quinquefolia 5 Yes FACU	1. Eurybia macrophylla	15	Yes	UPL	Problematic Hydrophytic Vegetation* (Explain)
Solution	2. Polystichum acrostichoides	5	Yes	FACU	
4. Tsuga canadensis 5 Yes FACU 5. Acer pensylvanicum 5 Yes FACU 6. Juncus tenuis 7. Potentilla simplex 8. 9.	3. Parthenocissus quinquefolia	5	Yes	FACU	
5 Yes FACU 6 Juncus tenuis 7 Potentilla simplex 8 9		5	Yes	FACU	
Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 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. Parthenocissus quinquefolia 10 Yes FACU 2. 3. 4. 5. 5. 50% of total cover: 5 100 = Total Cover 20% of total cover: 2 Hydrophytic Vegetation Present? Yes No V	*	5	Yes	FACU	Definitions of Four Vegetation Strata:
The symplex and the symplex are specified by the symplex and the symplex are specified by the symplex a		3			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
8					
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 – All woody vines greater than 3.28 ft in height. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes No	•				neight.
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. Parthenocissus quinquefolia 10 Yes FACU 2. 3. 4. 5. 5. 10 = Total Cover 50% of total cover: 5 20% of total cover: 2 10 = Total Cover 2 2 10	-				Sapling/Shrub – Woody plants, excluding vines, less
11	9				
41 = Total Cover 50% of total cover: 20.5 20% of total cover: 8.2 Woody Vine Stratum (Plot size: 30) 1. Parthenocissus quinquefolia 10 Yes FACU 2. 3. 4. 5.	10				m) tail.
50% of total cover: 20.5 20% of total cover: 8.2 Woody Vine Stratum (Plot size: 30) 10 Yes FACU	11				Herb – All herbaceous (non-woody) plants, regardless
Woody Vine Stratum (Plot size: 30) 1. Parthenocissus quinquefolia 10 Yes FACU 2.	00.5				of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:		20% of	total cover:_	8.2	Woody vine – All woody vines greater than 3.28 ft in
2	(1 lot size)				, ,
3	1. Parthenocissus quinquefolia	10	Yes	FACU	
4	2				
5	3				
5	4.				Hardward and a
10 = Total Cover 50% of total cover: 5 20% of total cover: 2	F		·		
50% of total cover:5 20% of total cover:2		10	= Total Cove	r	
	50% of total cover: 5			2	
Actination (illocate protect natilization for all a separate sheet.)					
	Tremaine. (morade priote nambers here of on a separate si	11001.)			
l l					

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Third Care Standard	Depth	Matrix		Redox Featur			
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ydric Soil Indicators: Histosol (A1) Histosol (A2) Polyvalue Below Surface (S9) Black Histic (A3) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (F1) Depleted Below Dark Surface (A11) Depleted Dark Surface (F6) Depleted Below Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) (LRR N) MLRA 147, 148) MLRA 147, 148) MLRA 147, 148) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Mucky Mineral (S1) Lombric Surface (F13) MLRA 136, 122) Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) Betrictive Layer (if observed): Type: T	inches)	Color (moist)	<u>%</u>	Color (moist) %	Type ¹ Loc ²	<u>Texture</u>	<u>Remarks</u>
ydric Soil Indicators: Histosol (A1)	8-0	10YR 2/2	100			SCL	
ydric Soil Indicators: Histosol (A1)					<u> </u>		
ydric Soil Indicators: Histosol (A1)							
ydric Soil Indicators: Histosol (A1)						- ·	
ydric Soil Indicators: Histosol (A1)							
ydric Soil Indicators: Histosol (A1)			· — — —		-	·	
ydric Soil Indicators: Histosol (A1)							
ydric Soil Indicators: Histosol (A1)							
ydric Soil Indicators: Histosol (A1)							
ydric Soil Indicators: Histosol (A1)							
ydric Soil Indicators: Histosol (A1)						- ·	
ydric Soil Indicators: Histosol (A1)							
ydric Soil Indicators: Histosol (A1)		-					
ydric Soil Indicators: Histosol (A1)							
ydric Soil Indicators: Histosol (A1)	Type: C=C	oncentration, D=Dep	letion, RM=Re	educed Matrix, MS=Maske	ed Sand Grains.	² Location: P	PL=Pore Lining, M=Matrix.
Histosol (A1)							
Histic Epipedon (A2)	Histosol	(A1)		Dark Surface (S7)			
					ace (S8) (MI RA 14)		. , .
				-			
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) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Iron-Manganese Masses (F12) (LRR N, MLRA 136) Sandy Gleyed Matrix (S4) Umbric Surface (F13) (MLRA 136, 122) 3Indicators of hydrophytic vegetation and yetland hydrology must be present, wetland hydrology must be present, unless disturbed or problematic. estrictive Layer (if observed): Type: rock					(1 2)	<u> </u>	
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4) Stripped Matrix (S6) Stripped Matrix (S6) Estrictive Layer (if observed): Type: Depleted Dark Surface (F7) Redox Depressions (F8) Iron-Manganese Masses (F12) (LRR N, MLRA 136) Umbric Surface (F13) (MLRA 136, 122) Piedmont Floodplain Soils (F19) (MLRA 148) Red Parent Material (F21) (MLRA 127, 147) Hydric Soil Present? Yes No Moderate (F7) Cother (Explain in Remarks) Cother (Explain in Remarks) And Cother (Explain in Remarks) And Cother (Explain in Remarks) Cother (Explain in Remarks) And Cother (Explain in Remarks) Cother (Explain in Remarks) And Cother (Explain in Remarks) And Cother (Explain in Remarks) Cother (Explain in Remarks) And Cother (Explain in Remarks) Cother (Explain in Remarks) And Cother					'E6\	\	
Thick Dark Surface (A12)			o (A11)		,		•
Sandy Mucky Mineral (S1) (LRR N,			e (ATT)				other (Explain in Remarks)
MLRA 147, 148) _ Sandy Gleyed Matrix (S4) _ Sandy Redox (S5) _ Stripped Matrix (S6) _ Red Parent Material (F21) (MLRA 127, 147) _ Stripped Matrix (S6) _ Red Parent Material (F21) (MLRA 127, 147) _ Soil Present? Yes No Hydric Soil Present? Yes No			DD N				
Sandy Gleyed Matrix (S4) Umbric Surface (F13) (MLRA 136, 122) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) wetland hydrology must be present, unless disturbed or problematic. Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) unless disturbed or problematic. Type: rock			LKK N,		ses (F12) (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:				· ·	(111 D 4 400 400)	3,	
Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) unless disturbed or problematic. estrictive Layer (if observed): Type: rock Depth (inches): 8							
Estrictive Layer (if observed): Type: rock							
Type: rock Depth (inches): 8 Hydric Soil Present? Yes No emarks:				Red Parent Material (F21) (MLRA 127, 1 4	47) un	less disturbed or problematic.
Depth (inches): 8 Hydric Soil Present? Yes No venarks:							
emarks:				_			
emarks:	Depth (in	ches): 8				Hydric Soil	I Present? Yes No ✓
		,		_			
ger retusar at o incres.		at 0 inches					
	uger reiusai	at 6 inches.					



Upland data point wrae255_u facing northeast



Upland data point wrae255_u facing southwest

Project/Site: Atlantic Coast Pipeline		City/C	County: Randolph County	/	Sampling Date: 6/17/2016			
Applicant/Owner: Dominion				State: WV	Sampling Point: wrae256s_w			
			on, Township, Range: No					
Landform (hillslope, terrace, etc.): drain								
Subregion (LRR or MLRA): N		38.58204931	Long: -80.	15530378	Datum: WGS 1984			
Soil Map Unit Name: Gilpin-Dekalb sto	ny complex, moi	ist, 35 to 70 percent s	lopes	NWI classifi	cation: PSS			
Are climatic / hydrologic conditions on t								
Are Vegetation, Soil, or	Hydrology	significantly distur	bed? Are "Normal	Circumstances"	present? Yes No			
Are Vegetation, Soil, or								
SUMMARY OF FINDINGS – A								
Hydrophytic Vegetation Present?	Yes	No						
Hydric Soil Present?	Yes V	No	Is the Sampled Area	V V	No			
Wetland Hydrology Present?		No	within a Wetland?	Yes	NO			
HYDROLOGY								
Wetland Hydrology Indicators:				Secondary Indic	ators (minimum of two required)			
Primary Indicators (minimum of one is	required; check	call that apply)		Surface Soil	Cracks (B6)			
Surface Water (A1)		True Aquatic Plants (getated Concave Surface (B8)			
High Water Table (A2)		Hydrogen Sulfide Od		✓ Drainage Pa				
	✓ 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)								
Sediment Deposits (B2)				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)		Other (Explain in Nei	nanoj	Geomorphic	• ,			
Inundation Visible on Aerial Imag	ery (B7)			Shallow Aqu				
Water-Stained Leaves (B9)	, ,				aphic Relief (D4)			
Aquatic Fauna (B13)				FAC-Neutra	I Test (D5)			
Field Observations:								
		Depth (inches):						
Water Table Present? Yes _	✓ No	Depth (inches):	2					
	✓ No	Depth (inches):	0 Wetland H	lydrology Prese	nt? Yes 🔽 No			
(includes capillary fringe) Describe Recorded Data (stream gauge)	ge, monitoring w	vell, aerial photos, pre	 evious inspections), if ava	ilable:				
Remarks:								

Sampling Point: wrae256s	_w	t· wrae256s_		ina	ากไ	Sam
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00	Absolute	Dominant Ir		Dominance Test worksheet:
Tree Stratum (Plot size: 30)	% Cover 0	Species?	Status	Number of Dominant Species
1. none				That Are OBL, FACW, or FAC:5 (A)
2				Total Number of Dominant
3				Species Across All Strata: 5 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100 (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
•		= Total Cover	_	OBL species85x 1 =85
50% of total cover: 0	20% of	total cover:	0	ODL species
Sapiing/Shrub Stratum (Plot size:)			ODI	PACW species x z =
1. Salix sericea	50	Yes	OBL	FAC species x 3 =
2				FACU species
3				UPL species X 5 =
4				Column Totals: (A) (B)
5				Prevalence Index = B/A = 1.53
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9.		·		
	50	= Total Cover	,	✓ 3 - Prevalence Index is ≤3.0 ¹
50% of total cover: 25		total cover:	10	4 - Morphological Adaptations ¹ (Provide supporting
Herb Stratum (Plot size: 5)				data in Remarks or on a separate sheet)
1. Chelone glabra	20	Yes	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Leersia virginica	20	Yes	FACW	
3. Carex lurida	15	Yes	OBL	¹Indicators of hydric soil and wetland hydrology must
4 Viola cucullata	15	Yes	FACW	be present, unless disturbed or problematic.
5 Toxicodendron radicans	10	No	FAC	Definitions of Four Vegetation Strata:
6. Eutrochium purpureum	10	No	FAC	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
				more in diameter at breast height (DBH), regardless of height.
7				neight.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
10				
11	90			Herb – All herbaceous (non-woody) plants, regardless
50% of total cover: 45		= Total Cover total cover:		of size, and woody plants less than 3.28 ft tall.
0070 01 total 00001:	20 /6 01	total cover		Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size:) 1. none	0			height.
•				
2				
3				
4				Hydrophytic
5				Vegetation No. No.
0		= Total Cover	r	Present? Yes No No
50% of total cover:0	20% of	total cover:		
Remarks: (Include photo numbers here or on a separate s	heet.)			

Profile Description: (Describe to the dep	th needed to document the indicator or confirm	the absence of indicators.)	
Depth Matrix	Redox Features		
(inches) Color (moist) % 0-8 10YR 5/1 80	Color (moist) % Type¹ Loc² 10YR 5/6 20 C M	Texture Remarks SCL	
	·		
¹ Type: C=Concentration, D=Depletion, RM Hydric Soil Indicators :	=Reduced Matrix, MS=Masked Sand Grains.	² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils	3.
	Dark Surface (S7)	-	• •
Histosol (A1) Histic Epipedon (A2)	Dark Surface (S7) Polyvalue Below Surface (S8) (MLRA 147, ·	2 cm Muck (A10) (MLRA 147) 148) Coast Prairie Redox (A16)	
Black Histic (A3)	Polyvaide Below Surface (So) (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 (A11)	Depleted Dark Surface (F7)	Other (Explain in Remarks)	
Thick Dark Surface (A12)	Redox Depressions (F8)		
Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)	Iron-Manganese Masses (F12) (LRR N, MLRA 136)		
Sandy Gleyed Matrix (S4)	Umbric Surface (F13) (MLRA 136, 122)	³ Indicators of hydrophytic vegetation an	ıd
Sandy Redox (S5)	Piedmont Floodplain Soils (F19) (MLRA 148		. ~
Stripped Matrix (S6)	Red Parent Material (F21) (MLRA 127, 147)		
Restrictive Layer (if observed):			
Type: rock	<u></u>		
Depth (inches): 8	<u></u>	Hydric Soil Present? Yes No	
Remarks:			
REFUSAL			



Wetland data point wrae256s_w facing south



Wetland data point wrae256s_w facing north

Project/Site: Atlantic Coast Pipeline	City/0	County: Randolph County	§	Sampling Date: 6/17/2016
Applicant/Owner: Dominion			State: WV	_ Sampling Point: wrae256_u
	Secti			
Landform (hillslope, terrace, etc.): road		lief (concave, convex, none):		Slope (%): ⁵
Subregion (LRR or MLRA): N				Datum: WGS 1984
Soil Map Unit Name: Gilpin-Dekalb stony com	plex, moist, 35 to 70 percent	slopes	NWI classificat	tion: UPL
Are climatic / hydrologic conditions on the site	typical for this time of year?	res No (If r	no, explain in Rer	marks.)
Are Vegetation, Soil, or Hydrol	ogy significantly distu	rbed? Are "Normal Ci	rcumstances" pre	esent? Yes No
Are Vegetation, Soil, or Hydrol				
SUMMARY OF FINDINGS – Attach			•	
Hydrophytic Vegetation Present? Ye	s No			
	s No	Is the Sampled Area	Yes	No. V
	s No	within a Wetland?	res	
HYDROLOGY				
Wetland Hydrology Indicators:		Se	condary Indicate	ors (minimum of two required)
Primary Indicators (minimum of one is requir	ed; check all that apply)	·	Surface Soil C	<u>, </u>
Surface Water (A1)	True Aquatic Plants			etated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Oc		_ Drainage Patte	
Saturation (A3)	Oxidized Rhizospher	res on Living Roots (C3)	_ Moss Trim Line	es (B16)
Water Marks (B1)	Presence of Reduce	d Iron (C4)	_ Dry-Season W	ater Table (C2)
Sediment Deposits (B2)	Recent Iron Reduction	on in Tilled Soils (C6)	_ Crayfish Burro	ws (C8)
Drift Deposits (B3)	Thin Muck Surface (_ Saturation Visi	ible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Re	marks)		essed Plants (D1)
Iron Deposits (B5)		_	_ Geomorphic P	` '
Inundation Visible on Aerial Imagery (B7	')	_	_ Shallow Aquita	
Water-Stained Leaves (B9)		_	_ Microtopograp	
Aquatic Fauna (B13)			_ FAC-Neutral T	est (D5)
Field Observations:	la V Danth (inches)			
	No Depth (inches):			
	No Depth (inches):			
Saturation Present? Yes Note: The second of the seco	No Depth (inches):	Wetland Hyd	rology Present?	? Yes No
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, pre	evious inspections), if availab	ole:	
Remarks: No hydrology present				
No flydrology present				

Sampling Point, miggzoo_c	Sampling	Point: wrae256_	_u
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20	Absolute	Dominant In		Dominance Test worksheet:
Tree Stratum (Plot size: 30)	% Cover	Species?	<u>Status</u>	Number of Dominant Species
1. none				That Are OBL, FACW, or FAC:1 (A)
2				Total Number of Dominant
3				Species Across All Strata: 6 (B)
4				
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 16.6666666 (A/B)
6				That Ale ODE, I AOW, OF I AO.
7.				Prevalence Index worksheet:
	0	= Total Cover		Total % Cover of: Multiply by:
50% of total cover: 0		total cover:	0	OBL species5 x 1 =5
Sapling/Shrub Stratum (Plot size: 15)	20 /0 0.			FACW species0 x 2 =0
1 Acer saccharum	5	Yes	FACU	FAC species15 x 3 =45
				FACU species 60 x 4 = 240
2				UPL species 8 x 5 = 40
3				Column Totals: 88 (A) 330 (B)
4				Column Totals (A) (B)
5				Prevalence Index = B/A = 3.75
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				
	5	= Total Cover		3 - Prevalence Index is ≤3.0 ¹
50% of total cover: 2.5		total cover:	1	4 - Morphological Adaptations ¹ (Provide supporting
Herb Stratum (Plot size:5				data in Remarks or on a separate sheet)
1 Solidago rugosa	15	Yes	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Trifolium pratense	10	Yes	FACU	
3. Dactylis glomerata	10	Yes	FACU	¹ Indicators of hydric soil and wetland hydrology must
4 Tussilago farfara	10	Yes	FACU	be present, unless disturbed or problematic.
5 Fragaria virginiana	10	Yes	FACU	Definitions of Four Vegetation Strata:
S				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6. Achillea millefolium	8	No	FACU	more in diameter at breast height (DBH), regardless of
7. Daucus carota	8	No No	UPL	height.
8. Potentilla simplex	7	No	FACU	Sapling/Shrub – Woody plants, excluding vines, less
9. Carex vulpinoidea	5	<u>No</u>	OBL	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
	83	= Total Cover		of size, and woody plants less than 3.28 ft tall.
50% of total cover: 41.5		total cover:		
Woody Vine Stratum (Plot size:)				Woody vine – All woody vines greater than 3.28 ft in height.
1. none	0			neight.
2				
4				Hydrophytic
5				Vegetation Present? Yes No
· · · · · · · · · · · · · · · · ·		= Total Cover	. 0	rieseiit: iesivo
50% of total cover:0		total cover:		
Remarks: (Include photo numbers here or on a separate s	heet.)			

Sampling Point: wrae256_u

Profile Desc	ription: (Describe t	o the depth				or confirm	the absei	nce of indica	tors.)		
Depth	Matrix		Redo	x Feature	S1	. 2			_		
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Texture	<u> </u>	Remar	ks	
					' <u>-</u>						
	-										
							-				
¹ Type: C=Co	ncentration, D=Depl	etion. RM=Re	educed Matrix, MS	S=Masked	Sand Gra	ains.	² Location	: PL=Pore Lii	ning. M=Mat	rix.	
Hydric Soil I		ouon, run—ru	radood Matrix, Mi	<u>J-Macket</u>	· Cana On	AII 10.		dicators for I			oils³:
-			Danle Confess	(07)						-	
Histosol			Dark Surface		(00) (1)			_	(A10) (MLR	•	
	ipedon (A2)		Polyvalue Be				148)	_ Coast Prair		16)	
Black His			Thin Dark Su	, ,	•	47, 148)		(MLRA 1			
	n Sulfide (A4)		Loamy Gleye		F2)		_		loodplain So	oils (F19)	
	Layers (A5)		Depleted Ma						36, 147)		
	ck (A10) (LRR N)		Redox Dark				_		w Dark Surf)
Depleted	Below Dark Surface	(A11)	Depleted Dar	rk Surface	(F7)		_	Other (Expl	ain in Rema	ırks)	
Thick Da	rk Surface (A12)		Redox Depre	essions (F	8)						
Sandy M	ucky Mineral (S1) (L	RR N,	Iron-Mangan	ese Mass	es (F12) (LRR N,					
MLRA	147, 148)		MLRA 13	6)							
Sandy G	leyed Matrix (S4)		Umbric Surfa	ce (F13) (MLRA 13	6, 122)	;	³ Indicators of	hydrophytic	vegetation	and
	edox (S5)		Piedmont Flo					wetland hydr		-	
	Matrix (S6)		Red Parent N					unless distur			
	ayer (if observed):				, (,	4000 4.014.	200 C. p. 02		
	ayer (ii observeu).										
Type:			_								
Depth (inc	ches):		_				Hydric S	Soil Present?	Yes	No _	<u> </u>
Remarks:											
No soil dug. G	ravel road.										



Upland data point wrae256_u facing north



Upland data point wrae256_u facing south

Project/Site: Atlantic Coast Pipe	eline	City/C	County: Randolph County	/	Sampling Date: 6/14/2016
Applicant/Owner: Dominion				State: WV	Sampling Point: wrae253s_w
Investigator(s): CG, SA, KO			on, Township, Range: No		
Landform (hillslope, terrace, etc					
Subregion (LRR or MLRA). N	1	at: 38.57921733	Lang80.	15223214	Datum: WGS 1984
Soil Map Unit Name: Udorthent	ts, mudstone and sha	ale, low base		NWI classifi	cation: PSS
Are climatic / hydrologic condition	ons on the site typica	al for this time of year? Y	/es No	(If no, explain in I	Remarks.)
Are Vegetation, Soil	, or Hydrology	significantly distur	bed? Are "Normal	Circumstances"	present? Yes No
Are Vegetation, Soil					
					s, important features, etc.
Hydrophytic Vegetation Prese	nt? Yes 🗸	No			
Hydric Soil Present?			Is the Sampled Area	V V	No
Wetland Hydrology Present?			within a Wetland?	res	NO
Remarks:					
HYDROLOGY					
Wetland Hydrology Indicato	rs:			Secondary Indic	ators (minimum of two required)
Primary Indicators (minimum o	of one is required; ch	eck all that apply)		Surface Soi	
✓ Surface Water (A1)		True Aquatic Plants ((B14)		egetated Concave Surface (B8)
High Water Table (A2)		Hydrogen Sulfide Od			atterns (B10)
✓ Saturation (A3)	_	Oxidized Rhizospher	es on Living Roots (C3)	Moss Trim I	ines (B16)
Water Marks (B1)	_	Presence of Reduced	d Iron (C4)	Dry-Season	Water Table (C2)
Sediment Deposits (B2)	_	Recent Iron Reduction	on in Tilled Soils (C6)	Crayfish Bu	rrows (C8)
Drift Deposits (B3)	_	Thin Muck Surface (0			isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	_	Other (Explain in Rer	marks)	· 	Stressed Plants (D1)
Iron Deposits (B5)					Position (D2)
Inundation Visible on Aeri				Shallow Aqu	
Water-Stained Leaves (B	9)				aphic Relief (D4)
Aquatic Fauna (B13)				FAC-Neutra	Test (D5)
Field Observations: Surface Water Present?	Voc. V No.	Depth (inches):	2		
Water Table Present?		Depth (inches):	0		
Saturation Present?		Depth (inches):	0 Wetland b	lydrology Prese	nt? Yes ✓ No
(includes capillary fringe)					iit: res No
Describe Recorded Data (stre	am gauge, monitoring	g well, aerial photos, pre	evious inspections), if ava	iilable:	
Remarks:					
Nemarks.					

Sampling Point: V	wrae253s_	W
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	Absolute	Dominant I	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?		Number of Dominant Species
1 Betula alleghaniensis	5	Yes	FAC	That Are OBL, FACW, or FAC:5 (A)
0				That rice GBE, Friow, GFFrio.
2				Total Number of Dominant
3				Species Across All Strata: 5 (B)
4				Barrant of Barring of Consider
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
				That Ale OBL, FACW, OF FAC (A/B)
6				Prevalence Index worksheet:
<i>1</i>				Total % Cover of: Multiply by:
		= Total Cove		70 70
50% of total cover: 2.5	20% of	total cover:_	1	OBL species
Sapling/Shrub Stratum (Plot size: 15				FACVV species
1. Salix interior	25	Yes	FACW	FAC species35
2. Betula alleghaniensis	10	Yes	FAC	FACU species5 x 4 =20
3. Spiraea japonica	5	No	FACU	UPL species 0 x 5 = 0
3. Spiraea japoriica		110	TACO	145 265
4				Column Totals: (A) 203 (B)
5				Prevalence Index = B/A = 1.82
•				1 Tevalence mack = B/T(=
-				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				✓ 3 - Prevalence Index is ≤3.0 ¹
	40	= Total Cove	r	
50% of total cover: 20		total cover:	8	4 - Morphological Adaptations ¹ (Provide supporting
	2070 01	total cover		data in Remarks or on a separate sheet)
Tierb Stratum (1 lot size.	60		ODI	Problematic Hydrophytic Vegetation ¹ (Explain)
1. Chelone glabra	60	Yes	OBL	<u> </u>
2. Toxicodendron radicans	20	Yes	FAC	1
3. Glyceria striata	10	No	OBL	¹Indicators of hydric soil and wetland hydrology must
4 Impatiens capensis	10	No	FACW	be present, unless disturbed or problematic.
·:				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.				
0				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
	100	= Total Cove	er	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 50		total cover:		
Woody Vine Stratum (Plot size: 30)		_		Woody vine – All woody vines greater than 3.28 ft in
1 none	0			height.
1. Hene				
2				
3				
4				
				Hydrophytic
5				Vegetation Present? Yes No
		= Total Cove		rieseitt: ies No
50% of total cover:0	20% of	total cover:_	0	
Remarks: (Include photo numbers here or on a separate sl	neet.)			

Profile Description:	Describe to the	depth needed to docur	nent the indica	ator or confirm	n the absence	of indicators.)
Depth	Matrix	Redo	x Features			
(inches) Color 0-2 10YR 3/	(moist) % 2 10		%Ty	pe ¹ Loc ²	Texture SICL	Remarks
2-8 10YR 4/	2 95	10YR 3/6	5	СМ	SCL	
8-20 5Y 4/1		0			SICL	
					-	
	· · · · · · · · · · · · · · · · · · ·					
¹Typo: C-Concentration	on D-Donlotion	RM=Reduced Matrix, MS	S-Maskad San	d Grains	² Location: D	L=Pore Lining, M=Matrix.
Hydric Soil Indicators		RM=Reduced Matrix, M	S=Iviasked San	d Grains.		L=Pore Lining, M=Matrix. ators for Problematic Hydric Soils ³ :
Histosol (A1)	-	Dark Surface	(97)			cm Muck (A10) (MLRA 147)
Histic Epipedon (A	(2)	· · · · · · · · · · · · · · · · · · ·	, ,	8) (MLRA 147 ,		oast Prairie Redox (A16)
Black Histic (A3)	۸۷)		ırface (S9) (ML		0	(MLRA 147, 148)
	(1)		ed Matrix (F2)	KA 141, 140)	D	iedmont Floodplain Soils (F19)
Hydrogen Sulfide Stratified Layers (, ,		<u> </u>	
	,	Depleted Ma				(MLRA 136, 147)
2 cm Muck (A10) (Redox Dark : V Depleted Dark :				ery Shallow Dark Surface (TF12)
✓ Depleted Below D						ther (Explain in Remarks)
Thick Dark Surfac		Redox Depre		40) (I DD N		
Sandy Mucky Min			ese Masses (F	12) (LRR N,		
MLRA 147, 148		MLRA 13	•		2	
Sandy Gleyed Ma			ice (F13) (MLR			icators of hydrophytic vegetation and
Sandy Redox (S5)				F19) (MLRA 1 4		tland hydrology must be present,
Stripped Matrix (S		Red Parent N	Material (F21) (MLRA 127, 147	7) un	less disturbed or problematic.
Restrictive Layer (if o	bserved):					
Type:						
Depth (inches):					Hydric Soil	Present? Yes No
Remarks:						



Wetland data point wrae253s_w facing north



Wetland data point wrae253s_w facing south

Project/Site: Atlantic Coast Pipeline	City/0	County: Randolph County	Sampling Date: 6/14/2016
Applicant/Owner: Dominion		State: V	NV Sampling Point: wrae253_u
		on, Township, Range: No PLSS in t	
Landform (hillslope, terrace, etc.): bench		lief (concave, convex, none): none	
Subregion (LRR or MLRA): N			
Soil Map Unit Name: Udorthents, mudstone a	and shale, low base	NWI	classification: UPLAND
Are climatic / hydrologic conditions on the site			
Are Vegetation, Soil, or Hydrol			
Are Vegetation, Soil, or Hydrol			
SUMMARY OF FINDINGS – Attach			
	· · ·		<u> </u>
	es No	Is the Sampled Area	
Wetland Hydrology Present?	es No	within a Wetland? Yes	s No
Remarks:			
HYDROLOGY			
Wetland Hydrology Indicators:			ry Indicators (minimum of two required)
Primary Indicators (minimum of one is requir			ace Soil Cracks (B6)
Surface Water (A1)	True Aquatic Plants		sely Vegetated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Oc		nage Patterns (B10)
Saturation (A3)			s Trim Lines (B16)
Water Marks (B1)	Presence of Reduce		Season Water Table (C2)
Sediment Deposits (B2) Drift Deposits (B3)	Recent Iron Reduction Thin Muck Surface (fish Burrows (C8) ration Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Re		ted or Stressed Plants (D1)
Iron Deposits (B5)	Out (Explain III No		morphic Position (D2)
Inundation Visible on Aerial Imagery (B7	7)		low Aquitard (D3)
Water-Stained Leaves (B9)	,		otopographic Relief (D4)
Aquatic Fauna (B13)			-Neutral Test (D5)
Field Observations:			
Surface Water Present? Yes N	No Depth (inches):		
Water Table Present? Yes N	No Depth (inches):		
Saturation Present? Yes N (includes capillary fringe)	No Depth (inches):	Wetland Hydrology	Present? Yes No
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, pre	evious inspections), if available:	
D. word o			
Remarks:			

Sampling	Point: wrae253_	_u
Sambiinu	Point. maszes-	_~

	Absolute	Dominant In	ndicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:)		Species?		Number of Dominant Species
1. none	0			That Are OBL, FACW, or FAC:1 (A)
2				(,
				Total Number of Dominant
3				Species Across All Strata: (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 16.6666666 (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 0 x 1 = 0
Sapling/Shrub Stratum (Plot size: 15)	_	_		FACW species0 x 2 =0
1. none	0			FAC species15 x 3 =45
				FACU species 80 x 4 = 320
2				0
3				UPL species $\frac{0}{95}$ x 5 = $\frac{0}{365}$
4				Column Totals: (A) (B)
5				Prevalence Index = B/A = 3.84
6				Trevalence mack = B/TC =
				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 ¹
		= Total Cove		4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover:0	20% of	total cover:_	0	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5				
1. Fragaria virginiana	20	Yes	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Dactylis glomerata	20	Yes	FACU	
3. Juncus tenuis	15	Yes	FAC	¹ Indicators of hydric soil and wetland hydrology must
1 Trifolium repens	15	Yes	FACU	be present, unless disturbed or problematic.
5. Achillea millefolium	15			Definitions of Four Vegetation Strata:
		Yes	FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6. Plantago major	10	No	FACU	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.
10				
11	95			Herb – All herbaceous (non-woody) plants, regardless
		= Total Cove		of size, and woody plants less than 3.28 ft tall.
50% of total cover: 47.5	20% of	total cover:_	19	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 30)				height.
1. Aristolochia elegans	5	Yes		
2				
3.				
4.				
				Hydrophytic
5				Vegetation Present? Yes No
2.5		= Total Cove	4	riesent: res No
50% of total cover: 2.5	20% of	total cover:_		
Remarks: (Include photo numbers here or on a separate sl	neet.)			

Sampling Point: wrae253_u

	ription: (Describe t	o the depth				or confirm	the abse	nce of indica	tors.)		
Depth	Matrix			x Features	S1	. 2	- .		-		
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc ²	Texture	<u> </u>	Remar	ks	
	·										
	-							-			
	ncentration, D=Depl	etion, RM=Re	educed Matrix, MS	S=Masked	Sand Gra	ains.		n: PL=Pore Li			
Hydric Soil I	ndicators:						In	dicators for I	Problematic	: Hydric So	oils³:
Histosol	(A1)		Dark Surface	(S7)				2 cm Muck	(A10) (MLR	A 147)	
	ipedon (A2)		Polyvalue Be		ce (S8) (N	II RΔ 147	148)		ie Redox (A		
Black His			Tolyvalde Be				, _		147, 148)	,	
						47, 140)				oilo (E40)	
	n Sulfide (A4)		Loamy Gleye		F2)		_		Floodplain So)IIS (F 19)	
	Layers (A5)		Depleted Ma						136, 147)	(==.0)	
	ck (A10) (LRR N)		Redox Dark				_		w Dark Surf)
	Below Dark Surface	(A11)	Depleted Dar				_	_ Other (Expl	lain in Rema	ırks)	
Thick Da	rk Surface (A12)		Redox Depre	ssions (F	3)						
Sandy M	ucky Mineral (S1) (L	RR N,	Iron-Mangan	ese Masse	es (F12) (I	_RR N,					
MLRA	147, 148)		MLRA 13	6)							
	leyed Matrix (S4)		Umbric Surfa	•	MLRA 13	6. 122)		³ Indicators of	hydrophytic	vegetation	and
	edox (S5)		Piedmont Flo					wetland hydi		-	
	Matrix (S6)		Red Parent N					unless distur			,
			Red raienti	nateriai (i	ZI) (WILK	A 121, 141	,	uriless distui	bed of probl	iemanc.	
Restrictive L	ayer (if observed):										
Туре:			_								
Depth (inc	hes):		_				Hydric	Soil Present?	Yes	No _	
Remarks:											
	due to compacted g	ravol accoss	road								
NO SOII PIL GUG	due to compacted g	iavei access	ioau.								



Upland data point wrae253_u facing south



Upland data point wrae253_u facing north

Project/Site: Atlantic Coast Pipeline	City/County: Randolph Cour	ty Sar	npling Date: 6/14/2016			
Applicant/Owner: Dominion	State: WV Sampling Point: wrae252e					
Investigator(s): CG, SA, KO	Section, Township, Range:					
	Local relief (concave, convex, n		Slope (%): ³⁵			
Subregion (LRR or MLRA): N		0.15300746	Datum: WGS 1984			
Soil Map Unit Name: Gilpin-Dekalb stony comple	ex, moist, 35 to 70 percent slopes	NWI classification	PEM			
Are climatic / hydrologic conditions on the site typ	oical for this time of year? Yes No	(If no, explain in Rema	rks.)			
Are Vegetation, Soil, or Hydrology	y significantly disturbed? Are "Norm	al Circumstances" prese	nt? Yes <u>'</u> No			
	y naturally problematic? (If needed					
	ite map showing sampling point locat					
Hydrophytic Vegetation Present? Yes _	V No In the Committed Associated					
	No Is the Sampled Area within a Wetland?	Yes	No			
	No	165	140			
Remarks:						
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Indicators	(minimum of two required)			
Primary Indicators (minimum of one is required;	check all that apply)	Surface Soil Crac	ks (B6)			
Surface Water (A1)	True Aquatic Plants (B14)		ed Concave Surface (B8)			
High Water Table (A2)	Hydrogen Sulfide Odor (C1)	✓ Drainage Patterns				
✓ Saturation (A3)	Oxidized Rhizospheres on Living Roots (C3	Moss Trim Lines	(B16)			
Water Marks (B1)	Presence of Reduced Iron (C4)	Dry-Season Wate	er 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 Stress	ed Plants (D1)			
Iron Deposits (B5)		Geomorphic Position (D2)				
Inundation Visible on Aerial Imagery (B7)		Shallow Aquitard				
Water-Stained Leaves (B9)		Microtopographic Relief (D4)				
Aquatic Fauna (B13)		✓ FAC-Neutral Test	(D5)			
Field Observations:	V Double (back as)					
<u> </u>	Depth (inches):					
	Depth (inches):		V			
Saturation Present? Yes Ves No (includes capillary fringe)	Depth (inches): Wetland	Hydrology Present?	Yes No			
	oring well, aerial photos, previous inspections), if a	/ailable:				
Remarks:						

Sampling Po	oint: wrae252e_w
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00	Absolute	Dominant Ir		Dominance Test worksheet:
Tree Stratum (Plot size: 30)	% Cover 0	Species?	<u>Status</u>	Number of Dominant Species
1. <u>none</u>				That Are OBL, FACW, or FAC:3 (A)
2				Total Number of Dominant
3				Species Across All Strata: 3 (B)
4				
5				Percent of Dominant Species That Are OBL EACIN or EAC: 100 (A/B)
0			-	That Are OBL, FACW, or FAC: (A/B)
				Prevalence Index worksheet:
7	0			Total % Cover of: Multiply by:
50% of total cover: 0		= Total Cover total cover:	0	OBL species0 x 1 =0
15	20% 01	total cover:		FACW species 20
Sapling/Shrub Stratum (Plot size:)	4.5	V	EAC	FAC species 25 x 3 = 75
1. Betula alleghaniensis	15	Yes	FAC	0
2				FACU species x 4 = 0
3				UPL species X 5 =
4				Column Totals: (A) (B)
5				Prevalence Index = B/A = 2.55
6		 -		1 Totalende Index = B/TC =
7				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9	15			✓ 3 - Prevalence Index is ≤3.0¹
7.5		= Total Cover	3	4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover: 7.5	20% of	total cover:		data in Remarks or on a separate sheet)
Herb Stratum (Plot size:5				Problematic Hydrophytic Vegetation ¹ (Explain)
1. Symphyotrichum lanceolatum	15	Yes	FACW	1 Toblematic Trydrophytic Vegetation (Explain)
2. Solidago rugosa	10	Yes	FAC	1
3. Impatiens capensis	5	No	FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4				
5			-	Definitions of Four Vegetation Strata:
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6				more in diameter at breast height (DBH), regardless of
7				height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless
	30	= Total Cover		of size, and woody plants less than 3.28 ft tall.
50% of total cover: 15	20% of	total cover:	6	Was devices. All was devices a greater their 2.00 ft in
Woody Vine Stratum (Plot size:)				Woody vine – All woody vines greater than 3.28 ft in height.
1. none	0			noight.
2.				
3				
4		-		Hydrophytic
5				Vegetation Present? Yes No
		= Total Cover		Present? Yes No
50% of total cover:0	20% of	total cover:		
Remarks: (Include photo numbers here or on a separate s	heet.)			

Depth	Matrix			K Features				
(inches)	Color (moist)	<u>%</u>	Color (moist)		Type ¹	Loc ²	<u>Texture</u>	Remarks
0-2	10YR 4/4	100					SIC	
2-4	10YR 5/4	100					SIC	
4-12	2.5Y 5/2	80	10YR 5/4	20		M	SIC	
	2.51 5/2		10110 3/4					
	•							
Type: C=C	oncentration D=De	nletion RM	=Reduced Matrix, MS	=Masked	Sand Gra	ains	² Location: P	PL=Pore Lining, M=Matrix.
	Indicators:	piction, raiv	-readoca Matrix, Me	z-maskoa	oana on			ators for Problematic Hydric Soils ³ :
Histosol			Dark Surface	(97)				2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be		۸) (82) م	II R		Coast Prairie Redox (A16)
	istic (A3)		Polyvalde Be		. , .		0, ((MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye			-1, 1 40)		Piedmont Floodplain Soils (F19)
	d Layers (A5)		✓ Depleted Mat	•	<u>~)</u>		<u> </u>	(MLRA 136, 147)
	uck (A10) (LRR N)		Redox Dark S		3)		V	/ery Shallow Dark Surface (TF12)
	d Below Dark Surfac	ce (Δ11)	Redox Dark s	•				Other (Explain in Remarks)
	ark Surface (A12)	00 (711)	Redox Depre				`	outor (Explain in Nomains)
	Mucky Mineral (S1) ((I RR N	Iron-Mangane			RR N		
	A 147, 148)	LIXIX IV,	MLRA 136		3 (1 12) (1	-IXIX I 4 ,		
	Gleyed Matrix (S4)		Umbric Surfa	•	/II R Δ 13	6 122)	³ Ind	licators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					etland hydrology must be present,
	Matrix (S6)		Red Parent M					lless disturbed or problematic.
	Layer (if observed)	١-		iatoriai (i 2	, (,	, u	noor distanced or problematic.
Type: Ro	ock	,-						
							Unadaia Cail	I Present? Yes ✓ No
	ches): <u>12</u>						Hydric Soil	I Present? Yes No
Remarks:								
efusal due t	o rock fragments.							



Wetland data point wrae252e_w facing west



Wetland data point wrae252e_w facing east

Project/Site: Atlantic Coast Pipeline		City/0	County: Randolph County	′	Sampling Date: 6/14/2016			
Applicant/Owner: Dominion		State: WV Sampling Point: wrae252_						
nvestigator(s): CG, SA, KO Section, Township, Range: No PLSS in this area								
Landform (hillslope, terrace, etc.): Hills								
Subregion (LRR or MLRA): N					Datum: WGS 1984			
Soil Map Unit Name: Gilpin-Dekalb sto			slopes	NWI classific	cation: UPLAND			
Are climatic / hydrologic conditions on t	he site typical fo	or this time of year?	res ✓ _ No ((If no, explain in R	emarks.)			
Are Vegetation, Soil, or	Hydrology	significantly distu	rbed? Are "Normal	Circumstances" p	present? Yes V No			
Are Vegetation, Soil, or								
SUMMARY OF FINDINGS – A								
Hydrophytia Vagatation Propent?	Voc	No. 4						
Hydrophytic Vegetation Present? Hydric Soil Present?	Yes	No 🔽	Is the Sampled Area		🗸			
Wetland Hydrology Present?	Yes		within a Wetland?	Yes	No			
Remarks:								
HYDROLOGY								
Wetland Hydrology Indicators:				Secondary Indica	ators (minimum of two required)			
Primary Indicators (minimum of one is	required; checl	k all that apply)		Surface Soil				
Surface Water (A1)		True Aquatic Plants		Sparsely Vegetated Concave Surface (B8)				
High Water Table (A2)		Hydrogen Sulfide Oc		Drainage Patterns (B10)				
Saturation (A3)		-						
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)					
Drift Deposits (B3)		Thin Muck Surface (Saturation V	isible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)		Other (Explain in Re	marks)	Stunted or Stressed Plants (D1)				
Iron Deposits (B5)				Geomorphic Position (D2)				
Inundation Visible on Aerial Imag	ery (B7)			Shallow Aquitard (D3)				
Water-Stained Leaves (B9)				Microtopographic Relief (D4)				
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)			
Field Observations:	N	Denth (Seekee)						
		Depth (inches):						
		Depth (inches):			Na V			
Saturation Present? Yes _ (includes capillary fringe)	No <u>*</u>	Depth (inches):	wetland H	iyarology Preser	nt? Yes No			
Describe Recorded Data (stream gau	ge, monitoring v	well, aerial photos, pre	evious inspections), if ava	ilable:				
Devente								
Remarks:								

Sampling Point: wrae252_u

00	Absolute	Dominant Ir	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size:)			Status	Number of Dominant Species
1. Acer saccharum	35	Yes	FACU	That Are OBL, FACW, or FAC:1 (A)
2. Betula alleghaniensis	35	Yes	FAC	Total Number of Deminant
3. Fagus grandifolia	15	No	FACU	Total Number of Dominant Species Across All Strata: 6 (B)
4. Acer pensylvanicum	15	No	FACU	Openies / toross / tir etrata.
				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 16.66666666 (A/B)
6				Prevalence Index worksheet:
7				
	100	= Total Cover		Total % Cover of: Multiply by:
50% of total cover: 50	20% of	total cover:	20	OBL species X I =
Sapling/Shrub Stratum (Plot size: 15				FACW species0 x 2 =0
1 Acer pensylvanicum	30	Yes	FACU	FAC species35 x 3 =105
2. Fagus grandifolia	15	Yes	FACU	FACU species 140 x 4 = 560
	5			
3. Quercus montana		No	UPL	UPL species $\frac{5}{180}$ x 5 = $\frac{25}{690}$
4				Column Totals: (A) (B)
5				Prevalence Index = B/A = 3.83
6.				Trevalence mack = B/T =
				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 ¹
	50	= Total Cover		
50% of total cover: 25	20% of	total cover:	10	4 - Morphological Adaptations ¹ (Provide supporting
Herb Stratum (Plot size: 5				data in Remarks or on a separate sheet)
1 Acer pensylvanicum	15	Yes	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Dennstaedtia punctilobula	15	Yes	FACU	
2. Derinstaedila punctilobula			TACO	¹ Indicators of hydric soil and wetland hydrology must
3				be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				Deminions of Four Vegetation Strata.
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
				more in diameter at breast height (DBH), regardless of
7				height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11.				Harb. All back assess (as a superd National assessment
	30	Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 15		= Total Cover total cover:	6	or size, and woody plants less than 5.20 it tall.
0070 01 10101 00 001.	20% 01	total cover		Woody vine – All woody vines greater than 3.28 ft in
(1 lot size.	0			height.
1. <u>none</u>	0			
2				
3				
i e				
···				Hydrophytic
5				Vegetation
		= 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: wrae252_u

Profile Desc	ription: (Describe to	the depth r	needed to docum	ent the inc	dicator or con	firm the a	absence of indicators	s.)
Depth	Matrix			Features	<u>, , , , , , , , , , , , , , , , , , , </u>			
(inches) 0-6	Color (moist) 10YR 3/4	100	Color (moist)	<u></u> % _	Type ¹ Loc ²		exture SIL	Remarks
	·							
	oncentration, D=Deple	tion, RM=Re	duced Matrix, MS	=Masked S	and Grains.	² Loc	ation: PL=Pore Lining	
Hydric Soil	ndicators:						Indicators for Pro	blematic Hydric Soils ³ :
Histosol		-	Dark Surface					0) (MLRA 147)
	pipedon (A2)	-			(S8) (MLRA 1		Coast Prairie F	
Black Hi	stic (A3) n Sulfide (A4)	-	Thin Dark Sui Loamy Gleye		MLRA 147, 14	8)	(MLRA 147,	, 148) dplain Soils (F19)
	l Layers (A5)	-	Loamy Gleyer Depleted Mat		(2)		Pledmont Floo (MLRA 136,	
	ick (A10) (LRR N)	-	Redox Dark S					Dark Surface (TF12)
	Below Dark Surface	(A11)	Depleted Dar				Other (Explain	
	ark Surface (A12)	-	Redox Depre					
	lucky Mineral (S1) (LF	RR N,			(F12) (LRR N	,		
	147, 148)		MLRA 136	•	LDA 400 400		31	
	edox (S5)	-			LRA 136, 122) s (F19) (MLRA			rophytic vegetation and gy must be present,
-	Matrix (S6)	-) (MLRA 127,		unless disturbed	
Restrictive I	ayer (if observed):	<u>-</u>			,	1		
Type: Ro	ck		_					
Depth (inc			=			Hyd	dric Soil Present?	Yes No
Remarks:						u u		
Refusal due to	o rock.							



Upland data point wrae252_u facing southwest



Upland data point wrae252_u facing southeast

Project/Site: Atlantic Coast Pipeline	City/C	City/County: Randolph County Sampling Date: 6/17/201					
Applicant/Owner: Dominion		State: WV Sampling Point: wrae257s					
		on, Township, Range: No PLSS in this a					
Landform (hillslope, terrace, etc.): roadside							
Subregion (LRR or MLRA): N							
Soil Map Unit Name: Udorthents, mudston	ne and shale, low base	NWI class	sification: PSS				
Are climatic / hydrologic conditions on the	site typical for this time of year? Y	res No (If no, explain i	n Remarks.)				
Are Vegetation, Soil, or Hy	/drology significantly distur	bed? Are "Normal Circumstance	s" present? Yes No				
Are Vegetation, Soil, or Hy							
SUMMARY OF FINDINGS – Atta							
Hydric Soil Present?	Yes No Yes No	Is the Sampled Area within a Wetland? Yes	No				
Wetland Hydrology Present? Remarks:	Yes No						
culverted under road.							
HYDROLOGY							
Wetland Hydrology Indicators:			dicators (minimum of two required)				
Primary Indicators (minimum of one is rec	quired; check all that apply)		Soil Cracks (B6)				
Surface Water (A1)	True Aquatic Plants (Vegetated Concave Surface (B8)				
High Water Table (A2)	Hydrogen Sulfide Odd		Patterns (B10)				
Saturation (A3)	Oxidized Rhizosphere						
Water Marks (B1)	Presence of Reduced		Dry-Season Water Table (C2)				
Sediment Deposits (B2)	Recent Iron Reductio		Burrows (C8)				
Drift Deposits (B3)	Thin Muck Surface (C		n Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	Other (Explain in Ren		or Stressed Plants (D1)				
Iron Deposits (B5) Inundation Visible on Aerial Imagery	, (R7)		Geomorphic Position (D2)				
Water-Stained Leaves (B9)	(67)		Shallow Aquitard (D3) Microtopographic Relief (D4)				
Aquatic Fauna (B13)			FAC-Neutral Test (D5)				
Field Observations:							
	No Depth (inches):						
1	No Popth (inches):						
		0 Wetland Hydrology Pre	sent? Yes 🗸 No				
(includes capillary fringe)							
Describe Recorded Data (stream gauge,	monitoring well, aerial photos, pre	vious inspections), if available:					
Remarks:							

Sampling F	Point: wrae257s_	w
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	Absolute	Dominant I	ndicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:)		Species?		Number of Dominant Species
1. none	0	-		That Are OBL, FACW, or FAC:3 (A)
				That rice GBE, Friend, GIFFIG.
2				Total Number of Dominant
3				Species Across All Strata: 4 (B)
4				Barrant of Barring of Consider
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 75 (A/B)
				That Are OBL, FACW, OF FAC (A/B)
6				Prevalence Index worksheet:
<i>1</i>	0			Total % Cover of: Multiply by:
	:	= Total Cove	_	25
50% of total cover:0	20% of	total cover:_	0	35 X I =
Sapling/Shrub Stratum (Plot size: 0				FACVV species
1. Salix sericea	25	Yes	OBL	FAC species15
2. Spiraea japonica	15	Yes	FACU	FACU species25 x 4 =100
3. Acer rubrum		No	FAC	UPL species0 x 5 =0
3. Acer rubrum		INO	-FAC	100 240
4				Column Totals: (A) (B)
5				
•				Prevalence Index = B/A =2.4
•				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				∠ 2 - Dominance Test is >50%
9.				
	45	= Total Cove		✓ 3 - Prevalence Index is ≤3.0 ¹
50% of total cover: 22.5		total cover:_	9	4 - Morphological Adaptations ¹ (Provide supporting
0	20 /0 01	total cover		data in Remarks or on a separate sheet)
TIEID Stratum (Flot Size.	45	.,	= 1 0 1 1	Problematic Hydrophytic Vegetation ¹ (Explain)
1. Impatiens capensis	15	Yes	FACW	robiemate riyarepriyae vegetation (Explain)
2. Viola cucullata	10	Yes	FACW	4
3. Equisetum arvense	10	Yes	FAC	¹Indicators of hydric soil and wetland hydrology must
A Poa palustris	10	Yes	FACW	be present, unless disturbed or problematic.
5 Tussilago farfara	10			Definitions of Four Vegetation Strata:
5. Tussilayo lariara		Yes	FACU	Tree Meady plants and wines 2 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				
0				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
	55	= Total Cove	r	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 27.5		total cover:		
•		10101 00101		Woody vine – All woody vines greater than 3.28 ft in
(Fot size:	0			height.
1. none				
2				
3.				
1				
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	heet)			
Tromano. (morado prioto namboro noro er en a coparato di	1001.)			

Profile Desc	ription: (Describe t	o the depth	needed to docun	nent the in	dicator o	r confirm	the absence	e of indicat	ors.)		
Depth	Matrix		Redox	x Features							
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remark	S	
							-				_
								_			
1 _T 0. 0.		-tion DM D	a aluma a li Madrico MC	. Maalaad	Several Over		21	DI Dava Lia	inn M Matu	:	
	oncentration, D=Deple	etion, RIVI=Re	educed Matrix, MS	=IVIasked S	sand Gra	ins.		PL=Pore Lin			
Hydric Soil I										Hydric Soils ³ :	
Histosol			Dark Surface				· · · · · · · · · · · · · · · · · · ·	2 cm Muck (•	
Histic Ep	pipedon (A2)		Polyvalue Be				148)	Coast Prairie		6)	
Black Hi	stic (A3)		Thin Dark Su	rface (S9) (MLRA 1	47, 148)		(MLRA 1	47, 148)		
Hydroge	n Sulfide (A4)		Loamy Gleye	d Matrix (F	2)			Piedmont FI	oodplain So	ils (F19)	
Stratified	l Layers (A5)		Depleted Mat	rix (F3)				(MLRA 1	36, 147)		
2 cm Mu	ck (A10) (LRR N)		Redox Dark S	Surface (F6)			Very Shallov	w Dark Surfa	ace (TF12)	
Depleted	Below Dark Surface	(A11)	Depleted Dar	k Surface (F7)			Other (Expla	ain in Remar	ks)	
Thick Da	ark Surface (A12)		Redox Depre	ssions (F8)							
Sandy M	lucky Mineral (S1) (L	RR N,	Iron-Mangane	ese Masses	s (F12) (L	.RR N,					
	147, 148)		MLRA 130								
	leyed Matrix (S4)		Umbric Surfa		ILRA 130	5. 122)	³ lr	ndicators of h	vdrophytic v	egetation and	
	edox (S5)		Piedmont Flo					wetland hydro		-	
	Matrix (S6)		Red Parent M					ınless disturk			
	ayer (if observed):				., (,	,		70 a 0. p. 02.		
Type: gra	ivel										
			_							./	
Depth (inc	ches): <u>"</u>		_				Hydric Sc	oil Present?	Yes	No	_
Remarks:											
No soil dug du	ue to refusal at 0										
											1



Wetland data point wrae257s_w facing south



Wetland data point wrae257s_w facing north

Project/Site: Atlantic Coast Pipeline		City/	County: Randolph County	/	Sampling Date: 6/17/2016			
Applicant/Owner: Dominion		State: WV Sampling Point: wrae2						
			tion, Township, Range: No					
Landform (hillslope, terrace, etc.): road					Slope (%): <u>3</u>			
Subregion (LRR or MLRA): N								
Soil Map Unit Name: Udorthents, mudsto	ne and shale	e, low base	Long	NWI classific	cation: UPL			
Are climatic / hydrologic conditions on the								
Are Vegetation, Soil, or H	vdrology 🗸	significantly distu	urbed? Are "Normal	Circumstances" r	present? Yes No			
Are Vegetation, Soil, or H								
SUMMARY OF FINDINGS – Att								
Hydrophytic Vegetation Present?	Yes	No. 🗸						
Hydric Soil Present?		No	Is the Sampled Area	Voc	No 🗸			
Wetland Hydrology Present?	Yes		within a Wetland?	res	NO			
HYDROLOGY								
Wetland Hydrology Indicators:				Secondary Indica	ators (minimum of two required)			
Primary Indicators (minimum of one is re	equired; chec	ck 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 O	dor (C1)	Drainage Patterns (B10)				
Saturation (A3)			• ,	oots (C3) Moss Trim Lines (B16)				
Water Marks (B1)		Presence of Reduce		Dry-Season Water Table (C2)				
Sediment Deposits (B2)			ion in Tilled Soils (C6)					
Drift Deposits (B3)		Thin Muck Surface		Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	_	Other (Explain in Re	emarks)	Stunted or Stressed Plants (D1)				
Iron Deposits (B5)	(DZ)			Geomorphic Position (D2)				
 Inundation Visible on Aerial Imager Water-Stained Leaves (B9)	y (D7)			Shallow Aquitard (D3)				
Aquatic Fauna (B13)				Microtopographic Relief (D4) FAC-Neutral Test (D5)				
Field Observations:				1710 11041141				
	No 🗸	_ Depth (inches):						
		_ Depth (inches):						
		_ Depth (inches):		lydrology Preser	nt? Yes No			
(includes capillary fringe)					n: 100			
Describe Recorded Data (stream gauge	, monitoring v	well, aerial photos, p	revious inspections), if ava	iilable:				
Remarks:								
No hydrology present								
3 33 1								
					ļ			

Sampling Point: wrae257_L	Sampling	Point-wrae257_	_u
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00	Absolute	Dominant In		Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover 0	Species?	<u>Status</u>	Number of Dominant Species
1. none				That Are OBL, FACW, or FAC:0 (A)
2				Total Number of Dominant
3				Species Across All Strata: 3 (B)
4				
5				Percent of Dominant Species That Are ORL FACW or FAC: 0 (A/R)
				That Are OBL, FACW, or FAC: (A/B)
				Prevalence Index worksheet:
7	0			Total % Cover of: Multiply by:
50% of total cover: 0		= Total Cover	0	OBL species0 x 1 =0
15	20% of	total cover:		FACW species
Sapling/Snrub Stratum (Plot size:)	•			
1. none	0			FAC species $\frac{0}{20}$ x 3 = $\frac{0}{80}$
2				FACU species X 4 =
3				UPL species X 5 = 155
4				Column Totals:35 (A)155 (B)
5				Prevalence Index - R/A - 4.42
6				Trevalence mack = B/A =
				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 ¹
0		= Total Cover		4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover:0	20% of	total cover:	0	data in Remarks or on a separate sheet)
Herb Stratum (Plot size:5				Problematic Hydrophytic Vegetation¹ (Explain)
1. Plantago lanceolata	10	Yes	UPL	Problematic Hydrophytic Vegetation (Explain)
2. Ambrosia artemisiifolia	10	Yes	FACU	4
3. Trifolium pratense	10	Yes	FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Daucus carota	5	No	UPL	
5				Definitions of Four Vegetation Strata:
		· · · · · · · · · · · · · · · · · · ·		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6				more in diameter at breast height (DBH), regardless of
7		-		height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless
		= Total Cover		of size, and woody plants less than 3.28 ft tall.
50% of total cover:17.5	20% of	total cover:	7	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size:)				height.
1. none	0			
2.		· · · · · · · · · · · · · · · · · · ·		
3				
4				Hydrophytic
5				Vegetation Present? Yes No
		= Total Cover	0	rieseitt! ies No
50% of total cover:0	20% of	total cover:		
Remarks: (Include photo numbers here or on a separate s	heet.)			

Sampling Point: wrae257_u

	ription: (Describe t	o the depth r				or confirm	the abser	nce of indica	tors.)		
Depth	Matrix		Redo	x Features	S1	. 2	_		_		
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	<u> </u>	Remar	KS	
-		-									
								<u> </u>			
¹ Type: C=Co	ncentration, D=Depl	etion, RM=Re	duced Matrix, MS	S=Masked	Sand Gra	ains.	² Location	: PL=Pore Lir	ning, M=Mat	rix.	
Hydric Soil I							In	dicators for F	Problematic	Hydric Sc	oils³:
Histosol	(A1)		Dark Surface	(S7)				2 cm Muck	(A10) (MLR	A 147)	
	ipedon (A2)	-	Polyvalue Be		ce (S8) (N	II RA 147.	148)	Coast Prair			
Black His		-	Thin Dark Su				,	(MLRA 1		. 0,	
	n Sulfide (A4)	-	Loamy Gleye	, ,	•	41, 140,			Toodplain Sc	nile (F10)	
	Layers (A5)	-	Depleted Ma		1 2)			(MLRA 1)ii3 (1 13 <i>)</i>	
	ck (A10) (LRR N)	-	Depleted Ma Redox Dark		·e)				w Dark Surf	000 (TE12)	
	Below Dark Surface	.(Δ11)					_	_ Very Shallo _ Other (Expl			
		(A11) _	Depleted Dar				_	_ Other (Expi	alli ili Kellia	iks)	
	rk Surface (A12)	- -	Redox Depre			DD N					
	ucky Mineral (S1) (L	KK N,	Iron-Mangan		es (F12) (I	LKK N,					
	147, 148)		MLRA 13	-				3			
	leyed Matrix (S4)	-	Umbric Surfa					Indicators of		-	
	edox (S5)	-	Piedmont Flo					wetland hydr			
	Matrix (S6)	-	Red Parent N	/laterial (F	21) (MLR .	A 127, 147	7)	unless distur	bed or probl	ematic.	
Restrictive L	ayer (if observed):										
Type:			_								
Depth (inc	:hes):						Hydric S	Soil Present?	Yes	No	•
Remarks:			_								
	- 4										
no son aug au	e to gravel road										



Upland data point wrae257_u facing north



Upland data point wrae257_u facing south

Project/Site: Atlantic Coast Pipelin	ne	City/County: Randolph County Sampling Date: 6/1/2016							
Applicant/Owner: Dominion		State: WV Sampling Point: wrae234e_							
Investigator(s): CG, RP Section, Township, Range: No PLSS in this area									
Landform (hillslope, terrace, etc.): road Local relief (concave, convex, none): concave Slope (%): 5									
Subregion (LRR or MLRA): N Lat: -80.15257491 Long: 38.57642749 Datum: WGS									
Soil Map Unit Name: Gilpin-Dekal	b stony complex, n	noist, 35 to 70 percent s	lopes	NWI classifi	cation: PEM				
Are climatic / hydrologic conditions	s on the site typical	for this time of year? Y	′es No	(If no, explain in I	Remarks.)				
Are Vegetation, Soil	, or Hydrology	significantly distur	bed? Are "Normal	I Circumstances"	present? Yes No				
Are Vegetation, Soil									
					s, important features, etc.				
Hydrophytic Vegetation Present? Hydric Soil Present?	Yes	Is the Sampled Area within a Wetland?	Yes V	No					
Wetland Hydrology Present?	Yes	No	within a wettand:	163					
HYDROLOGY									
Wetland Hydrology Indicators:				Secondary Indic	eators (minimum of two required)				
Primary Indicators (minimum of o	one is required; che	eck all that apply)		Surface Soi	l Cracks (B6)				
✓ Surface Water (A1)	_	_ True Aquatic Plants ((B14)	Sparsely Ve	egetated Concave Surface (B8)				
✓ High Water Table (A2)	_	_ Hydrogen Sulfide Od	or (C1)	✓ Drainage Pa	atterns (B10)				
Saturation (A3)	_	_ Oxidized Rhizospher	es on Living Roots (C3)	Moss Trim I	_ines (B16)				
Water Marks (B1)	_	_ Presence of Reduced	d Iron (C4)	Dry-Season	Water Table (C2)				
Sediment Deposits (B2)	_	Recent Iron Reduction	on in Tilled Soils (C6)	Crayfish Bu					
Drift Deposits (B3)	_	_ Thin Muck Surface (C			/isible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	_	Other (Explain in Rer	marks)		Stressed Plants (D1)				
✓ Iron Deposits (B5)	(57)			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:				TAO Neutra	1 1031 (100)				
	/es / No	Depth (inches):	1						
			0						
	res No		0 Wetland h	lydrology Prese	nt? Yes ✓ No				
(includes capillary fringe)					165 <u></u> 145 <u></u>				
Describe Recorded Data (stream	າ gauge, monitoring	y well, aerial photos, pre	evious inspections), if ava	ailable:					
Remarks:									
remane.									

Sampling	Point: wrae234e_	w
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	Absolute	Dominant In	ndicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:)	% Cover	Species?		Number of Dominant Species
1. none	0			That Are OBL, FACW, or FAC: 4 (A)
2				()
				Total Number of Dominant
3				Species Across All Strata: (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: (A/B)
6				
7				Prevalence Index worksheet:
	0	= Total Cove	r	Total % Cover of: Multiply by:
50% of total cover: 0	20% of	total cover:_	0	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15)				FACW species 25
1. none	0			FAC species 20 x 3 = 60
				FACU species 5 x 4 = 20
2				UPL species0 x 5 =0
3				50 130
4				Column Totals: (A) (B)
5				Prevalence Index = B/A = 2.6
6				Trevalence mack = B/TC =
7				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9	0			✓ 3 - Prevalence Index is ≤3.0 ¹
50% of total cover: 0		= Total Cove	r O	4 - Morphological Adaptations ¹ (Provide supporting
50 /0 01 total cover:	20% of	total cover:_		data in Remarks or on a separate sheet)
Herb Stratum (Plot size:)				Problematic Hydrophytic Vegetation ¹ (Explain)
1. Woodwardia areolata	10	Yes	FACW	1 Toblematic Hydrophytic Vegetation (Explain)
2. Juncus effusus	10	Yes	FACW	1
3. Betula alleghaniensis	10	Yes	FAC	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. Acer rubrum	10	Yes	FAC	
5. Hamamelis virginiana	5	No	FACU	Definitions of Four Vegetation Strata:
6. Viola cucullata		No	FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
			171011	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
	50	= Total Cove	r	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 25		total cover:_		
Woody Vine Stratum (Plot size: 30)				Woody vine – All woody vines greater than 3.28 ft in
1 none	0			height.
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 sl	neet.)			
	ŕ			

Sampling Point: wrae234e_w

Profile Desc	ription: (Describe t	o the depth i	needed to docur	nent the i	ndicator	or confirm	the abse	nce of indica	tors.)	
Depth	Matrix			x Features	3	. 2	_			
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	<u> </u>	Remar	ks
		<u></u>								
	-									
							-			
1Typo: C-Co	noontration D_Donl	otion BM-Ba	duced Matrix MS		Sand Cr		² L continu	· DI –Doro Lie	oina M-Mot	riv
	ncentration, D=Depl	elion, Rivi=Re	duced Matrix, Mis	s=iviaskeu	Sand Gra	airis.		: PL=Pore Lir		Hydric Soils ³ :
Hydric Soil I							ın			_
Histosol			Dark Surface				_		(A10) (MLR	
Histic Ep	ipedon (A2)		Polyvalue Be	low Surfac	ce (S8) (N	ILRA 147,	148)	Coast Prair	ie Redox (A	16)
Black His	stic (A3)		Thin Dark Su	rface (S9)	(MLRA 1	47, 148)		(MLRA 1	47, 148)	
Hydroge	n Sulfide (A4)		Loamy Gleye	d Matrix (F2)			_ Piedmont F	loodplain Sc	oils (F19)
	Layers (A5)		Depleted Ma					(MLRA 1	36, 147)	
	ck (A10) (LRR N)	•	Redox Dark		6)				w Dark Surf	ace (TF12)
	Below Dark Surface	(A11)	Depleted Dai					Other (Expl		
	rk Surface (A12)	(****)	Redox Depre				_			,
	ucky Mineral (S1) (L	RR N	Iron-Mangan			RRN				
	. 147, 148)	IXIX I V ,	MLRA 13		53 (1 12 <i>)</i> (1	LIXIX IN,				
				•	MI D A 40	C 400\		31		
	leyed Matrix (S4)		Umbric Surfa							vegetation and
	edox (S5)	•	Piedmont Flo					wetland hydr		
	Matrix (S6)		Red Parent N	/laterial (F	21) (MLR .	A 127, 147	7)	unless distur	bed or probl	ematic.
Restrictive L	.ayer (if observed):									
Type:			_							
Depth (inc	ches):						Hydric 9	Soil Present?	Yes	No 🗸
							,			
Remarks:										
No soil pit dug	due to restrictive lay	er at 0.								



Wetland data point wrae234e_w facing northwest



Wetland data point wrae234e_w facing southeast

Project/Site: Atlantic Coast Pipeline		City/County: Randolph County Sampling Date: 6/1/2016						
Applicant/Owner: Dominion		State: WV Sampling Point: wrae234_						
nvestigator(s): CG, RP Section, Township, Range: No PLSS in this area								
Landform (hillslope, terrace, etc.): road Local relief (concave, convex, none): convex Slope (%): 5								
	RR or MLRA): N Lat: -80.15266137 Long: 38.57650676 Datum: WGS							
Soil Map Unit Name: Gilpin-Dekalb stony or	omplex, moist,	35 to 70 percent s	slopes	NWI classific	ation: UPL			
Are climatic / hydrologic conditions on the s								
Are Vegetation, Soil, or Hyd	rology	significantly distur	bed? Are "Normal	Circumstances" p	present? Yes No			
Are Vegetation, Soil, or Hyd								
SUMMARY OF FINDINGS – Attac								
Hydrophytic Vegetation Present?	Yes	No 🗸						
	Yes		Is the Sampled Area	V	No			
	Yes		within a Wetland?	Yes	No			
Remarks:								
HYDROLOGY								
Wetland Hydrology Indicators:				Secondary Indica	tors (minimum of two required)			
Primary Indicators (minimum of one is req	uired; check a	ll that apply)		Surface Soil Cracks (B6)				
Surface Water (A1)		ue Aquatic Plants (Sparsely Vegetated Concave Surface (B8)				
High Water Table (A2)	-	drogen Sulfide Od		Drainage Pat				
Saturation (A3)			• ,					
Water Marks (B1)		esence of Reduced			Water Table (C2)			
Sediment Deposits (B2)			on in Tilled Soils (C6)	Crayfish Burr				
Drift Deposits (B3)		in Muck Surface (0			sible on Aerial Imagery (C9)			
Algal Mat or Crust (B4) Iron Deposits (B5)	0	her (Explain in Rer	ilaiks)	Stunted or Stressed Plants (D1)				
Inundation Visible on Aerial Imagery (R7)			Geomorphic Position (D2)Shallow Aquitard (D3)				
Water-Stained Leaves (B9)	51)			Shallow Adultard (D3) Microtopographic Relief (D4)				
Aquatic Fauna (B13)								
Field Observations:				FAC-Neutral				
	No V D	epth (inches):						
		epth (inches):						
		epth (inches):		lydrology Presen	nt? Yes No			
Describe Recorded Data (stream gauge, r	nonitoring well	, aerial photos, pre	evious inspections), if ava	ilable:				
Remarks:								
No hydrology present								

Sampling Point: wrae234_u

	A la a l4a	Daminant In	-d:t	Deminera Test weeksheet
Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Ir Species?	Status	Dominance Test worksheet:
1 Betula lenta	25	Yes	FACU	Number of Dominant Species That Are OBL_FACW_or FAC: 1 (A)
· · <u> </u>	10	Yes		That Are OBL, FACW, or FAC:1 (A)
2. Magnolia tripetala			FACU	Total Number of Dominant
3. Betula alleghaniensis	5	No	FAC	Species Across All Strata: 6 (B)
4 Carpinus caroliniana	5	No	FAC	
5 Prunus serotina	5	No	FACU	Percent of Dominant Species That Are OBL_FACW_or_FAC: 16.66666666 (A/B)
•		-		That Are OBL, FACW, or FAC: 16.6666666 (A/B)
6		 -		Prevalence Index worksheet:
7				
	50	= Total Cover		Total % Cover of: Multiply by:
50% of total cover: 25	20% of	total cover:	10	OBL species X I =
Sapling/Shrub Stratum (Plot size: 15				FACW species0 x 2 =0
1 Betula lenta	20	Yes	FACU	FAC species25
·				FACU species 80 x 4 = 320
2				0
3				UPL species $\begin{array}{c} 0 \\ 105 \\ \end{array}$ $\begin{array}{c} x \ 5 = \\ \end{array}$ $\begin{array}{c} 0 \\ 395 \\ \end{array}$
4				Column Totals: (A) (B)
5				0.70
		-		Prevalence Index = B/A =3.76
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				
	20	= Total Cover		3 - Prevalence Index is ≤3.0 ¹
50% of total cover: 10		total cover:	4	4 - Morphological Adaptations ¹ (Provide supporting
50 % of total cover.	20% 01	total cover		data in Remarks or on a separate sheet)
(Flot Size)	40			Problematic Hydrophytic Vegetation ¹ (Explain)
1. Smilax rotundifolia	10	Yes	FAC	1 Toblematic Tryarophytic Vegetation (Explain)
2. Rubus allegheniensis	10	Yes	FACU	
3. Hamamelis virginiana	10	Yes	FACU	¹ Indicators of hydric soil and wetland hydrology must
4 Acer rubrum	5	No	FAC	be present, unless disturbed or problematic.
				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
	35	= Total Cover		of size, and woody plants less than 3.28 ft tall.
50% of total cover: 17.5		total cover:		
Woody Vine Stratum (Plot size: 30)				Woody vine – All woody vines greater than 3.28 ft in
1 none	0			height.
1. Hone				
2				
3				
4				
				Hydrophytic
5				Vegetation Present? Yes No
		= Total Cover		rieseitt! ies No
50% of total cover:0	20% of	total cover:	0	
Remarks: (Include photo numbers here or on a separate sl	neet.)			

Sampling Point: wrae234_u

Profile Desc	ription: (Describe to th	e depth ne	eded to docun	nent the in	dicator or confir	m the a	bsence of indicators.)
Depth	Matrix		Redo	K Features			
(inches)	Color (moist)	% C	olor (moist)	%	Type ¹ Loc ²	Tex	xture Remarks
							
			_				
						-	
			_				
1 _T 0. 0.		- DM DI	Natrice NAC	Maalaad		21	ation. DI Dans Lining M Matrix
	oncentration, D=Depletion	ı, KM=Red	ucea Matrix, MS	=iviasked	Sand Grains.	-Loca	ation: PL=Pore Lining, M=Matrix.
Hydric Soil							Indicators for Problematic Hydric Soils ³ :
Histosol		_	_ Dark Surface	. ,			2 cm Muck (A10) (MLRA 147)
	pipedon (A2)	_			e (S8) (MLRA 14		Coast Prairie Redox (A16)
Black Hi	stic (A3)		_ Thin Dark Su	rface (S9)	(MLRA 147, 148)		(MLRA 147, 148)
Hydroge	n Sulfide (A4)	_	_ Loamy Gleye	d Matrix (F	2)		Piedmont Floodplain Soils (F19)
	d Layers (A5)		_ Depleted Mat	•			(MLRA 136, 147)
	ick (A10) (LRR N)		Redox Dark		5)		Very Shallow Dark Surface (TF12)
	d Below Dark Surface (A1	 1)	_ Depleted Dar				Other (Explain in Remarks)
	ark Surface (A12)	,	_ . _ Redox Depre				
	Mucky Mineral (S1) (LRR	N			s (F12) (LRR N,		
	A 147, 148)	,	MLRA 13		o () (_ ,		
	Gleyed Matrix (S4)			•	/ILRA 136, 122)		³ Indicators of hydrophytic vegetation and
		_				140\	
-	ledox (S5)	_			ils (F19) (MLRA 1		wetland hydrology must be present,
	Matrix (S6)	_	_ Red Parent N	iateriai (F2	1) (MLRA 127, 1	47)	unless disturbed or problematic.
Restrictive I	_ayer (if observed):						
Type:							
Depth (inc	ches):					Hyd	ric Soil Present? Yes No
Remarks:	, <u>-</u>						
	to arough roadhad						
NO SOII PIL QUE	e to gravel roadbed						



Upland data point wrae234_u facing northwest



Upland data point wrae234_u facing northeast

Project/Site: Atlantic Coast Pipeline		City/C	County: Randolph County	/	Sampling Date: 6/18/2016			
Applicant/Owner: Dominion		State: WV Sampling Point: wrae25						
			on, Township, Range: No					
Landform (hillslope, terrace, etc.): drai								
Subregion (LRR or MLRA): N		38.57734274	Long: -80.	14891501	Datum: WGS 1984			
Soil Map Unit Name: Gilpin-Dekalb sto	ony complex, moi	ist, 15 to 35 percent s	lopes	NWI classific	cation: PEM			
Are climatic / hydrologic conditions on	the site typical fo	or this time of year? Y	′es No	(If no, explain in F	Remarks.)			
Are Vegetation, Soil, o	r Hydrology	significantly distur	bed? Are "Normal	l Circumstances"	present? Yes No			
Are Vegetation, Soil, o								
SUMMARY OF FINDINGS – A								
Hydrophytic Vegetation Present?	Yes _ 🗸	No						
Hydric Soil Present?	Yes 🗸	No	Is the Sampled Area	V V	No			
Wetland Hydrology Present?		No	within a Wetland?	Yes	NO			
HYDROLOGY								
Wetland Hydrology Indicators:				Secondary Indica	ators (minimum of two required)			
Primary Indicators (minimum of one i	s required; check	k all that apply)		Surface Soil				
Surface Water (A1)		True Aquatic Plants (B14)		getated Concave Surface (B8)			
High Water Table (A2)		Hydrogen Sulfide Od		✓ Drainage Pa				
Saturation (A3)			es on Living Roots (C3)	Moss Trim L	ines (B16)			
Water Marks (B1)		Presence of Reduced	d Iron (C4)	Dry-Season	Water Table (C2)			
Sediment Deposits (B2)		Recent Iron Reduction	on in Tilled Soils (C6)	Crayfish Bur	rows (C8)			
Drift Deposits (B3)	_	Thin Muck Surface (0	C7)	Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	_	Other (Explain in Rer	marks)	Stunted or Stressed Plants (D1)				
Iron Deposits (B5)				✓ Geomorphic Position (D2)				
Inundation Visible on Aerial Imag	jery (B7)			Shallow Aquitard (D3)				
Water-Stained Leaves (B9)				Microtopographic Relief (D4)				
Aquatic Fauna (B13)				✓ FAC-Neutra	T Test (D5)			
Field Observations: Surface Water Present? Yes	No. V	Denth (inches)						
		Depth (inches): Depth (inches):	8					
		Depth (inches):	0 Wetland I	lydrology Prese	-12 Van V Na			
(includes capillary fringe)	NO	Depth (inches):	wetland F	lydrology Presei	nt? Yes V No			
Describe Recorded Data (stream gau	ige, monitoring w	vell, aerial photos, pre	evious inspections), if ava	ilable:				
Remarks:								
Remarks.								

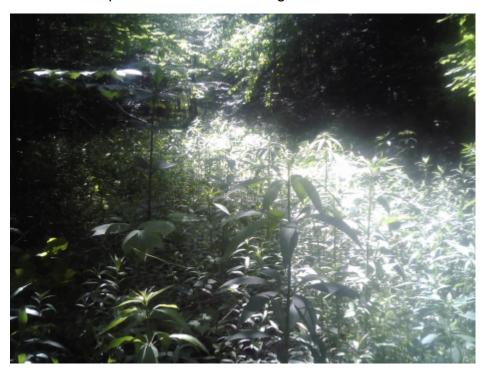
Sampling	Point: wrae258e_	w
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00	Absolute	Dominant Ir	ndicator	Dominance Test worksheet:			
Tree Stratum (Plot size:)	% Cover	Species?	<u>Status</u>	Number of Dominant Species			
1. none				That Are OBL, FACW, or FAC: 6 (A)			
2				Total Number of Dominant			
3				Species Across All Strata: 6 (B)			
4							
5				Percent of Dominant Species That Are ORL EACIV or EAC: 100 (A/R)			
				That Are OBL, FACW, or FAC: (A/B)			
6	-	-		Prevalence Index worksheet:			
7	0			Total % Cover of: Multiply by:			
50% of total cover: 0		= Total Cover	0	OBL species 55 x 1 = 55			
15	20% of	total cover:		FACW species 40 x 2 = 80			
Sapiing/Shrub Stratum (Plot size:)	_	.,	540	45 125			
1. Acer rubrum	5	Yes	FAC	x 3 =			
2. Salix sericea	5	Yes	OBL	FACU species X 4 =			
3. Betula alleghaniensis	5	Yes	FAC	UPL species x 5 =			
4				Column Totals:(A)(B)			
5				1.02			
6			-	Prevalence Index = B/A =1.92			
				Hydrophytic Vegetation Indicators:			
7				1 - Rapid Test for Hydrophytic Vegetation			
8				✓ 2 - Dominance Test is >50%			
9	45			✓ 3 - Prevalence Index is ≤3.0 ¹			
		= Total Cover		4 - Morphological Adaptations ¹ (Provide supporting			
50% of total cover: 7.5	20% of	total cover:	3	data in Remarks or on a separate sheet)			
Herb Stratum (Plot size:5				·			
1. Impatiens capensis	25	Yes	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)			
2. Chelone glabra	25	Yes	OBL				
3. Carex prasina	25	Yes	OBL	¹ Indicators of hydric soil and wetland hydrology must			
∆ Viola cucullata	15	No	FACW	be present, unless disturbed or problematic.			
5. Solidago rugosa	10	No	FAC	Definitions of Four Vegetation Strata:			
	10	No	FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or			
6. Equisetum arvense				more in diameter at breast height (DBH), regardless of			
7. Eutrochium purpureum	10	No No	FAC	height.			
8. Toxicodendron radicans	5	No	FAC	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			
	125	= Total Cover		of size, and woody plants less than 3.28 ft tall.			
50% of total cover: 62.5		total cover:					
Woody Vine Stratum (Plot size: 30)				Woody vine – All woody vines greater than 3.28 ft in			
1. none	0			height.			
2							
3		 .					
4				Hydrophytic			
5				Vegetation			
	0	= Total Cover		Present? Yes No No			
50% of total cover:0	20% of	total cover:	0				
Remarks: (Include photo numbers here or on a separate s	heet.)						

Profile Desc	ription: (Describe to	o the depth	needed to docur	nent the inc	licator o	or confirm	the ab	osence of indicators.)
Depth	Matrix		Redo	x Features				
(inches)	Color (moist)	%	Color (moist)		Type ¹	Loc ²	Text	
0-12	10YR 4/2	80	10YR 5/6	20	С	M	SC	CL
							-	
							-	
							-	
			_					
	oncentration, D=Deple	etion, RM=F	Reduced Matrix, MS	S=Masked S	and Gra	ins.	² Locat	tion: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:							Indicators for Problematic Hydric Soils ³ :
Histosol	(A1)		Dark Surface	(S7)				2 cm Muck (A10) (MLRA 147)
	oipedon (A2)		Polyvalue Be		(S8) (M	LRA 147.	148)	Coast Prairie Redox (A16)
	stic (A3)		Thin Dark Su				-,	(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye			, . ,		Piedmont Floodplain Soils (F19)
	d Layers (A5)		<u>✓</u> Depleted Ma		,			(MLRA 136, 147)
	uck (A10) (LRR N)		Redox Dark					Very Shallow Dark Surface (TF12)
	d Below Dark Surface	(111)						
		(A11)	Depleted Date		7)			Other (Explain in Remarks)
	ark Surface (A12)	DD 11	Redox Depre		(E40) (I	DD 11		
	Mucky Mineral (S1) (L	KK N,	Iron-Mangan		(F12) (L	.KK N,		
	A 147, 148)		MLRA 13	•				3
	Sleyed Matrix (S4)		Umbric Surfa					³ Indicators of hydrophytic vegetation and
Sandy F	Redox (S5)		Piedmont Flo					wetland hydrology must be present,
Stripped	Matrix (S6)		Red Parent N	/laterial (F21) (MLR	à 127, 147	7)	unless disturbed or problematic.
Restrictive	Layer (if observed):							
Type: roo	ck							
	ches): 12						Hydri	ric Soil Present? Yes No
	ones).						Hydr	ne don't reacht: Tea No
Remarks:								
Auger refusal	at 12 inches.							



Wetland data point wrae258e_w facing north



Wetland data point wrae258e_w facing south

Project/Site: Atlantic Coast Pipeline		City/C	County: Randolph County	/	Sampling Date: 6/18/2016			
Applicant/Owner: Dominion			Sampling Point: wrae258_u					
			on, Township, Range: No					
Landform (hillslope, terrace, etc.): road					Slope (%): 5			
Subregion (LRR or MLRA): N					Datum: WGS 1984			
Soil Map Unit Name: Gilpin-Dekalb sto	ny complex, mo	ist, 15 to 35 percent s	lopes	NWI classific	cation: UPL			
Are climatic / hydrologic conditions on t	ne site typical fo	or this time of year? Y	′es No	(If no, explain in R	Remarks.)			
Are Vegetation, Soil, or	Hydrology 🗸	significantly distur	bed? Are "Normal	Circumstances"	present? Yes No			
Are Vegetation, Soil, or								
SUMMARY OF FINDINGS – A	-							
Hydrophytic Vegetation Present?	Yes	No 🗸						
Hydric Soil Present?		No 🗸	Is the Sampled Area	Vaa	No 🗸			
Wetland Hydrology Present?	Yes		within a Wetland?	res	NO			
HYDROLOGY								
Wetland Hydrology Indicators:				Secondary Indica	ators (minimum of two required)			
Primary Indicators (minimum of one is	required; checl	k all that apply)		Surface Soil	Cracks (B6)			
Surface Water (A1)		True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)Drainage Patterns (B10)				
High Water Table (A2)		Hydrogen Sulfide Od						
Saturation (A3)			• ,	Moss Trim L				
Water Marks (B1)		Presence of Reduced		Dry-Season Water Table (C2)				
Sediment Deposits (B2)		Recent Iron Reduction						
Drift Deposits (B3)		Thin Muck Surface (C		Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	_	Other (Explain in Rer	narks)	Stunted or Stressed Plants (D1)				
Iron Deposits (B5) Inundation Visible on Aerial Image	ery (R7)			Geomorphic Position (D2)Shallow Aquitard (D3)Microtopographic Relief (D4)				
Water-Stained Leaves (B9)	ы у (В <i>Г)</i>							
Aquatic Fauna (B13)				FAC-Neutral				
Field Observations:					(-/			
	No 🗸	Depth (inches):						
		Depth (inches):						
Saturation Present? Yes _		Depth (inches):		lydrology Preser	nt? Yes No			
(includes capillary fringe) Describe Recorded Data (stream gauge)	ge, monitoring v	well, aerial photos, pre	l vious inspections), if ava	ilable:				
, , ,	, ,	, , , , , ,	, ,,					
Remarks:								
No hydrology present								

Sampling	Point: wrae258_	_u
Sambiinu	Point. Wasses-	_~

Sapling/Shrub Stratum (Plot size: 15	That Are OBL, FACW, or FAC: 1 (A) Total Number of Dominant Species Across All Strata: 4 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 25 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 15 x 3 = 45 FAC species 15 x 3 = 45 FACU species 50 x 4 = 200 UPL species 15 x 5 = 75 Column Totals: 80 (A) 320 (B) Prevalence Index = B/A = 4 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) FACU FACU IIII
2.	Total Number of Dominant Species Across All Strata: 4 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 25 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 15 x 3 = 45 FAC species 50 x 4 = 200 UPL species 15 x 5 = 75 Column Totals: 80 (A) 320 (B) Prevalence Index = B/A = 4 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) FACU FACU FACU 1IPL Third Number of Dominant Species 4 (B) ### (A/B) ### (B) ### (B) ### (A/B) ### (A/B) ### (B) ### (A/B) ### (A/B) ### (B) ### (A/B) ### (A
3.	Species Across All Strata:4
4	Species Across All Strata:4
5. 6. 7. 0 = Total Cover 20% of total cover: 0 Sapling/Shrub Stratum (Plot size: 15) 0 1. none 0 2. 3. 4. 5. 6. 7. 8. 9. 1. Toxicodendron radicans 15 Yes F. 2. Dactylis glomerata 15 Yes F. 3. Trifolium pratense 15 Yes F. 4. Plantago lanceolata 15 Yes U. 5. Ambrosia artemisiifolia 10 No F. 6. Trifolium repens 10 No F.	That Are OBL, FACW, or FAC:25
6	That Are OBL, FACW, or FAC:25
6	Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 15 x 3 = 45 FACU species 50 x 4 = 200 UPL species 15 x 5 = 75 Column Totals: 80 (A) 320 (B) Prevalence Index = B/A = 4 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) FACU FACU IIPI
7	Total % Cover of: OBL species
Sapling/Shrub Stratum (Plot size: 15 15 1. none	OBL species 0 x 1 = 0 FACW species 15 x 3 = 45 FAC species 50 x 4 = 200 UPL species 15 x 5 = 75 Column Totals: 80 (A) 320 (B) Prevalence Index = B/A = 4 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) FAC FACU FACU IIII
Sapling/Shrub Stratum (Plot size: 15 15 15 15 15 15 15 15	FAC Species
Sapling/Shrub Stratum (Plot size:	FACW species
1. none 0 2. 3. 4. 5. 6. 7. 8. 9. 9. 0 = Total Cover 20% of total cover: 0 1. Toxicodendron radicans 15 Yes F 2. Dactylis glomerata 15 Yes F 3. Trifolium pratense 15 Yes F 4. Plantago lanceolata 15 Yes F 5. Ambrosia artemisiifolia 10 No F 6. Trifolium repens 10 No F	FAC species 50 x 4 = 200 UPL species 15 x 5 = 75 Column Totals: 80 (A) 320 (B) Prevalence Index = B/A = 4 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) FAC FACU FACU IIIII IIII FACU Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2.	FACU species 50 x 4 = 200 UPL species 15 x 5 = 75 Column Totals: 80 (A) 320 (B) Prevalence Index = B/A = 4 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) FAC PACU FACU IIII
3	UPL species 15 x 5 = 75 Column Totals: 80 (A) 320 (B) Prevalence Index = B/A = 4 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) FACU FACU IIPI
4. 5. 5. 6. 7. 8. 9. 0 Herb Stratum (Plot size: 5) 50% of total cover: 0 1. Toxicodendron radicans 15 Yes F 2. Dactylis glomerata 15 Yes F 3. Trifolium pratense 15 Yes F 4. Plantago lanceolata 15 Yes U 5. Ambrosia artemisiifolia 10 No F 6. Trifolium repens 10 No F	Column Totals: 80 (A) 320 (B) Prevalence Index = B/A = 4 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) FAC FACU FACU IIII
5. 6. 7. 8. 9. 0 Herb Stratum (Plot size: 5) 50% of total cover: 0 1. Toxicodendron radicans 15 Yes F 2. Dactylis glomerata 15 Yes F 3. Trifolium pratense 15 Yes F 4. Plantago lanceolata 15 Yes U 5. Ambrosia artemisiifolia 10 No F 6. Trifolium repens 10 No F	Prevalence Index = B/A =4 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) FAC FACU FACU IIII
6. 7. 7. 8. 9. 0 = Total Cover 20% of total cover: 0 Herb Stratum (Plot size: 5) 15 Yes F 1. Toxicodendron radicans 15 Yes F 2. Dactylis glomerata 15 Yes F 3. Trifolium pratense 15 Yes F 4. Plantago lanceolata 15 Yes U 5. Ambrosia artemisiifolia 10 No FA 6. Trifolium repens 10 No FA	Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) FACU FACU IIII
7	
8. 9. 0 = Total Cover 20% of total cover: 0 Herb Stratum (Plot size: 5) 5) 15 Yes F 1. Toxicodendron radicans 2. Dactylis glomerata 3. Trifolium pratense 4. Plantago lanceolata 5. Ambrosia artemisifolia 5. Ambrosia artemisifolia 6. Trifolium repens 10 No FA 15 Yes U	
9.	2 - Dominance Test is >50%3 - Prevalence Index is ≤3.0¹4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)Problematic Hydrophytic Vegetation¹ (Explain) FACU FACU IIII
D Total Cover 0 20% of total cover: 0 15 Yes F 15 Yes 1	
Herb Stratum (Plot size: 5) 1. Toxicodendron radicans 15 Yes F. 2. Dactylis glomerata 15 Yes F. 3. Trifolium pratense 15 Yes F. 4. Plantago lanceolata 15 Yes U. 5. Ambrosia artemisiifolia 10 No F. 6. Trifolium repens 10 No F. 6. Trifolium repens 10 No F. 7. 10 No F. 8. 10 No F. 9. 10 No F. 10 10 No F. 10 10 No F. 10 10 No F. 11 10 No F. 12 10 No F. 13 10 No F. 14 10 No F. 15 10 No F. 16 10 No F. 17 10 No F. 18 10 No F. 19 10 No F. 10 10 No F. 10 10 No F. 10 10 No F. 11 10 No F. 12 10 No F. 13 15 Yes F. 14 15 Yes F. 15 Yes F. 16 Trifolium repens 10 No F. 17 Toxicodendron radicans 15 Yes F. 18 Trifolium repens 10 No F. 19 Trifolium repens 10 No F. 10 Trifolium repens 10 No Trifolium repe	4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) FACU FACU IIII IIII 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Herb Stratum (Plot size: 5) 1. Toxicodendron radicans 15 Yes F. 2. Dactylis glomerata 15 Yes F. 3. Trifolium pratense 15 Yes F. 4. Plantago lanceolata 15 Yes U. 5. Ambrosia artemisiifolia 10 No F. 6. Trifolium repens 10 No F. 7. Trifolium repens 10 No F. 7. Trifolium repens 10 No F. 8. Trifolium repens 10 No F. 9. Trifolium repens 10 No F.	data in Remarks or on a separate sheet) — Problematic Hydrophytic Vegetation¹ (Explain) FACU FACU IIII IIII data in Remarks or on a separate sheet) — Problematic Hydrophytic Vegetation¹ (Explain) IIIII IIIII
1. Toxicodendron radicans 15 Yes F 2. Dactylis glomerata 15 Yes FA 3. Trifolium pratense 15 Yes FA 4. Plantago lanceolata 15 Yes U 5. Ambrosia artemisiifolia 10 No FA 6. Trifolium repens 10 No FA	FACU FACU IIII Problematic Hydrophytic Vegetation¹ (Explain) 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. Toxicodendron radicans 15 Yes F 2. Dactylis glomerata 15 Yes FA 3. Trifolium pratense 15 Yes FA 4. Plantago lanceolata 15 Yes U 5. Ambrosia artemisiifolia 10 No FA 6. Trifolium repens 10 No FA	FACU IIII IIII IIII IIII IIIII IIIII IIII
3. Trifolium pratense 15 Yes FA 4. Plantago lanceolata 15 Yes U 5. Ambrosia artemisiifolia 10 No FA 6. Trifolium repens 10 No FA	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3. Trifolium pratense 15 Yes FA 4. Plantago lanceolata 15 Yes U 5. Ambrosia artemisiifolia 10 No FA 6. Trifolium repens 10 No FA	be present, unless disturbed or problematic.
4. Plantago lanceolata 15 Yes U 5. Ambrosia artemisiifolia 10 No FA 6. Trifolium repens 10 No FA	LIPI be present, unless disturbed or problematic.
5. Ambrosia artemisiifolia 10 No FA 6. Trifolium repens 10 No FA	Definitions of Form Versatation Office
6. Trifolium repens 10 No FA	FACU Definitions of Four Vegetation Strata:
<u> </u>	
7	=ACU Iree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
<u></u>	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
80 = Total Cover	of size, and woody plants less than 3.28 ft tall.
	16
Woody Vine Stratum (Plot size: 30)	Woody vine – All woody vines greater than 3.28 ft in height.
1, none 0	neignt.
2.	
3	
4	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 sheet.)	

Sampling Point: wrae258_u

Profile Desc	ription: (Describe t	o the depth r				or confirm	the abse	ence of indica	tors.)		
Depth	Matrix		Redo	x Features	3	. 2	_		_		
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc ²	<u>Textur</u>	<u>e</u>	Remar	ks	
						$\overline{}$					
	-										
1Typo: C-Co	noontration D_Donl	otion BM-Bo	duced Matrix M		Sand Cr		² L continu	o: DI –Doro Li	ning M_Mot	riv	
	ncentration, D=Depl	elion, Rivi=Re	duced Matrix, Mi	s=iviasked	Sand Gra	airis.		n: PL=Pore Li ndicators for I			ilo ³ .
Hydric Soil I							II			-	ons :
Histosol		_	Dark Surface				_		(A10) (MLR		
Histic Ep	ipedon (A2)	_	Polyvalue Be	low Surfac	ce (S8) (N	ILRA 147,	148) _	Coast Prair	ie Redox (A	16)	
Black His	stic (A3)	_	Thin Dark Su	rface (S9)	(MLRA 1	47, 148)		(MLRA 1	147, 148)		
Hydroge	n Sulfide (A4)	_	Loamy Gleye	d Matrix (F2)			Piedmont F	loodplain So	oils (F19)	
	Layers (A5)		Depleted Ma					(MLRA 1	136, 147)		
	ck (A10) (LRR N)	-	Redox Dark		(6)				w Dark Surf	ace (TF12)	
	Below Dark Surface	(A11)	Depleted Da				_		lain in Rema		
	rk Surface (A12)		Redox Depre				_				
	ucky Mineral (S1) (L	DD N	Iron-Mangan			DDN					
		NN N,			55 (F12 <i>)</i> (1	LKK N,					
	147, 148)		MLRA 13	-		0 400\		3			
	leyed Matrix (S4)	-	Umbric Surfa					³ Indicators of		-	
	edox (S5)	_	Piedmont Flo					wetland hyd	rology must l	be present,	
Stripped	Matrix (S6)	_	Red Parent N	/laterial (F	21) (MLR .	A 127, 147	7)	unless distur	bed or probl	ematic.	
Restrictive L	ayer (if observed):										
Type:											
	shoo):		_				Lludria	Soil Present?	. Vac	No	~
Depth (inc	nes)		_				пуштс	Son Fresent	Yes	NO_	
Remarks:											
No soil pit dug	due to gravel road.										



Upland data point wrae258_u facing south



Upland data point wrae258_u facing north

Project/Site: Atlantic Coast Pipeline		City/C	County: Randolph County	/	Sampling Date: 6/18/2016			
Applicant/Owner: Dominion		State: WV Sampling Point: Wra						
			on, Township, Range: No					
Landform (hillslope, terrace, etc.): roads								
Subregion (LRR or MLRA): N	Lat:	38.56782977	Long: -80.1	14100179	Datum: WGS 1984			
Soil Map Unit Name: Udorthents, muds	one and shale	, low base		NWI classifi	cation: PEM			
Are climatic / hydrologic conditions on the	ne site typical fo	or this time of year? Y	′es No	(If no, explain in F	Remarks.)			
Are Vegetation, Soil, or	Hydrology	, significantly distur	bed? Are "Normal	Circumstances"	present? Yes No			
Are Vegetation, Soil, or								
SUMMARY OF FINDINGS – A								
Hydrophytic Vegetation Present?	Vec 🗸	No						
Hydric Soil Present?	Yes V	No	Is the Sampled Area	V V	No			
Wetland Hydrology Present?		No	within a Wetland?	Yes	NO			
Remarks:								
HYDROLOGY								
Wetland Hydrology Indicators:					ators (minimum of two required)			
Primary Indicators (minimum of one is				Surface Soi				
Surface Water (A1)		True Aquatic Plants (getated Concave Surface (B8)			
High Water Table (A2)		Hydrogen Sulfide Od		_	atterns (B10)			
Saturation (A3)			• , ,	Moss Trim L				
Water Marks (B1)		Presence of Reduced Recent Iron Reduction			Water Table (C2)			
Sediment Deposits (B2) Drift Deposits (B3)		Thin Muck Surface (Crayfish Bu				
Algal Mat or Crust (B4)		Other (Explain in Rer		Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1)				
Iron Deposits (B5)		Carlor (Explain in real	namoj		Position (D2)			
Inundation Visible on Aerial Image	ery (B7)			Shallow Aquitard (D3)				
Water-Stained Leaves (B9)	, ,			Microtopographic Relief (D4)				
Aquatic Fauna (B13)				FAC-Neutra				
Field Observations:								
Surface Water Present? Yes	No	Depth (inches):						
		Depth (inches):						
Saturation Present? Yes	✓ No	Depth (inches):	0 Wetland H	lydrology Prese	nt? Yes V No No			
(includes capillary fringe) Describe Recorded Data (stream gauge	je, monitoring v	vell, aerial photos, pre	l vious inspections), if ava	ilable:				
Demontor								
Remarks:								

/EGETATION (Four Strata) – Use scientific na	ames of	plants.		Sampling Point: wrae260e_w
•	Absolute	Dominant I		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:) 1. none	% Cover 0	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:4 (A)
2				Total Novel on of Desiring (
3				Total Number of Dominant Species Across All Strata: 6 (B)
4				(S)
5	-	·		Percent of Dominant Species That Are ORL FACW or FAC: 66.6666666 (A/R)
				That Are OBL, FACW, or FAC: 60.00000000 (A/B)
6				Prevalence Index worksheet:
7	0	T		Total % Cover of: Multiply by:
50% of total cover: 0		= Total Cove	^	OBL species19 x 1 =19
15	20% 01	total cover:_		FACW species30
Sapiing/Shrub Stratum (Plot size:)	0			FAC species 10 x 3 = 30
1. none	-			20 00
2				FACU species x 4 = 80
3				UPL species x 5 = 189
4	-			Column Totals:(A)(B)
5				Prevalence Index = B/A =2.39
6				Hydrophytic Vegetation Indicators:
7				
8.				1 - Rapid Test for Hydrophytic Vegetation
9				2 - Dominance Test is >50%
<u>. </u>	0	= Total Cove		✓ 3 - Prevalence Index is ≤3.0 ¹
50% of total cover: 0		total cover:_	0	4 - Morphological Adaptations ¹ (Provide supporting
Herb Stratum (Plot size: 5)	2070 01	total oover		data in Remarks or on a separate sheet)
1 Carex canescens	15	Yes	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Lotus corniculatus	10	Yes	FACU	
3. Trifolium pratense	10	Yes	FACU	¹ Indicators of hydric soil and wetland hydrology must
	10	· ——	FAC	be present, unless disturbed or problematic.
4. Equisetum arvense		Yes		Definitions of Four Vegetation Strata:
5. Eupatorium perfoliatum	10	Yes	FACW	Tree Weady plants evaluding vines 2 in (7.6 cm) or
6. Juncus effusus	10	Yes	FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
7. Viola cucullata	5	No No	FACW	height.
8. Poa sylvestris	5	No	FACW	Sanling/Shrub Woody plants evaluding vines less
9. Scirpus atrovirens	2	No	OBL	Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
10. Typha angustifolia	2	No	OBL	m) tall.
11.				Harle All barriers and from the state resembles
	79	= Total Cove		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 39.5		total cover:_		
Woody Vine Stratum (Plot size: 30)		_		Woody vine – All woody vines greater than 3.28 ft in
	0			height.
	•			
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	heet.)			

Profile Desc	ription: (Describe to	o the dep	oth needed to docun	nent the i	ndicator	or confirm	the absence	of indicators.)
Depth	Matrix		Redox	x Features	s			
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
0-6	10YR 4/1	90	10YR 3/4	10	С	M	SCL	
			-		-			
			-		-			
¹ Type: C=Co	oncentration, D=Deple	etion, RM	=Reduced Matrix, MS	S=Masked	Sand Gra	ains.	² Location: P	L=Pore Lining, M=Matrix.
Hydric Soil		,	,			-		ators for Problematic Hydric Soils ³ :
Histosol			Dark Surface	(S7)				cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be		ce (S8) (N	ILRA 147		Coast Prairie Redox (A16)
Black Hi			Tolyvalde Be				, 0	(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye			,0,	P	riedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Mat		,		<u> </u>	(MLRA 136, 147)
	ick (A10) (LRR N)		✓ Redox Dark S		·6)		V	'ery Shallow Dark Surface (TF12)
	d Below Dark Surface	(A11)	Depleted Dar	,	,			Other (Explain in Remarks)
	ark Surface (A12)	(Redox Depre					(=)
	lucky Mineral (S1) (Li	RR N.	Iron-Mangane			LRR N.		
	\ 147, 148)	,	MLRA 130		(/ (-	,		
	Gleyed Matrix (S4)		Umbric Surfa	•	MLRA 13	6. 122)	³ Ind	icators of hydrophytic vegetation and
	ledox (S5)		Piedmont Flo					etland hydrology must be present,
	Matrix (S6)		Red Parent M					less disturbed or problematic.
	_ayer (if observed):			iatoriai (i	, (. t		, u	rece dictarged of problemate.
Type: roc								
Depth (inc							Hydric Soil	Present? Yes No
	Jiles)		 -				Tiyane 3011	Tresent: resNO
Remarks:	-4 O in all a -							
Auger refusal	at 6 inches							



Wetland data point wrae260e_w facing south



Wetland data point wrae260e_w facing north

Project/Site: Atlantic Coast Pipeline		City/0	County: Randolph County	/	Sampling Date: 6/18/2016			
Applicant/Owner: Dominion			Sampling Point: wrae260_u					
			on, Township, Range: No					
Landform (hillslope, terrace, etc.): road					Slope (%):2			
Subregion (LRR or MLRA): N								
Soil Map Unit Name: Udorthents, mudstone	and shale, low b	ase	Long.	NWI classific	cation: UPL			
Are climatic / hydrologic conditions on the sit								
Are Vegetation, Soil, or Hydr	ology 🗸 sic	nificantly distu	rbed? Are "Normal	Circumstances" r	oresent? Yes No			
Are Vegetation, Soil, or Hydr								
SUMMARY OF FINDINGS – Attac								
Hydrophytic Vegetation Present?	/es No_	~						
	res No		Is the Sampled Area	Voc	No			
	es No		within a Wetland?	res	NO			
HYDROLOGY								
Wetland Hydrology Indicators:				Secondary Indica	ators (minimum of two required)			
Primary Indicators (minimum of one is requ	uired; check all th	at apply)		Surface Soil	Cracks (B6)			
Surface Water (A1)	True /	Aquatic Plants	(B14)	Dry-Season Water Table (C2)				
High Water Table (A2)	-	gen Sulfide Od						
Saturation (A3)			• , ,					
Water Marks (B1)		nce of Reduce						
Sediment Deposits (B2)			on in Tilled Soils (C6)					
Drift Deposits (B3)		Muck Surface (Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4) Iron Deposits (B5)	Other	(Explain in Re	marks)	<pre> Stunted or Stressed Plants (D1) Geomorphic Position (D2)</pre>				
Inundation Visible on Aerial Imagery (E	37)			Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4)				
Water-Stained Leaves (B9)	J.,							
Aquatic Fauna (B13)				FAC-Neutral				
Field Observations:								
Surface Water Present? Yes	No V Dept	h (inches):						
	No V Dept							
	No Pept			Wetland Hydrology Present? Yes No				
Describe Recorded Data (stream gauge, m	nonitoring well, a	erial photos, pre	evious inspections), if ava	ilable:				
Remarks: No hydrology present								
Two flydrology present								

Sampling Point	wrae260_	u
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00	Absolute	Dominant In		Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Species?	<u>Status</u>	Number of Dominant Species
1. none				That Are OBL, FACW, or FAC:1 (A)
2				Total Number of Dominant
3				Species Across All Strata: 4 (B)
4				
5				Percent of Dominant Species That Are ORL FACW or FAC: 25 (A/R)
				That Are OBL, FACW, or FAC: (A/B)
				Prevalence Index worksheet:
7	0			Total % Cover of: Multiply by:
50% of total cover: 0		= Total Cover	0	OBL species $0 \times 1 = 0$
15	20% of	total cover:		FACW species0 x 2 =0
Sapling/Snrub Stratum (Plot size:)	•			15 45
1. none	0			FAC species x 3 = 80
2				FACU species X 4 =
3				UPL species X 5 =
4				Column Totals:(A)(B)
5				Prevalence Index - B/A - 3.88
6				Trevalence mack = B/A =
				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 ¹
0		= Total Cover		4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover:0	20% of	total cover:	0	data in Remarks or on a separate sheet)
Herb Stratum (Plot size:5				Problematic Hydrophytic Vegetation ¹ (Explain)
1. Juncus tenuis	15	Yes	FAC	Problematic Hydrophytic Vegetation (Explain)
2. Achillea millefolium	10	Yes	FACU	4
3. Lotus tenuis	10	Yes	FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Plantago lanceolata	10	Yes	UPL	
5				Definitions of Four Vegetation Strata:
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6				more in diameter at breast height (DBH), regardless of
7				height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless
	45	= Total Cover		of size, and woody plants less than 3.28 ft tall.
50% of total cover: 22.5	20% of	total cover:	9	Weedy vine All weedy vines greater than 2.20 ft in
Woody Vine Stratum (Plot size:)				Woody vine – All woody vines greater than 3.28 ft in height.
1. none	0			Tolgran
2.				
3				
4				Hydrophytic
5				Vegetation Present? Yes No
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: wrae260_u

	ription: (Describe t	o the dept			dicator	or confirm	the absen	ce of indica	itors.)		
Depth	Matrix		Redo	x Features	_ 1	. 2	_		_		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>		Remar	<u>rks</u>	
											
								_			
											
								<u> </u>			
¹ Type: C=Co	ncentration, D=Depl	etion PM-	Paducad Matrix MS	S-Mackad 9	Sand Gra	ine	² Location:	PL=Pore Li	ning M-Ma	triv	
Hydric Soil I		elion, Kivi=	Neduced Matrix, Mc	=iviaskeu v	Janu Gra	11115.		licators for			oile ³ :
-				(0-)			1110			-	ons .
Histosol (Dark Surface				_		(A10) (MLR		
	ipedon (A2)		Polyvalue Be				148)		rie Redox (A	.16)	
Black His			Thin Dark Su	. , ,		47, 148)			147, 148)		
Hydroger	n Sulfide (A4)		Loamy Gleye	d Matrix (F	2)			Piedmont I	Floodplain S	oils (F19)	
Stratified	Layers (A5)		Depleted Ma	trix (F3)				(MLRA	136, 147)		
2 cm Mud	ck (A10) (LRR N)		Redox Dark S	Surface (F6)			Very Shallo	ow Dark Sur	face (TF12	2)
Depleted	Below Dark Surface	(A11)	Depleted Dar	k Surface (F7)			Other (Exp	lain in Rema	arks)	
Thick Da	rk Surface (A12)		Redox Depre	ssions (F8)							
Sandy M	ucky Mineral (S1) (L	RR N,	Iron-Mangan	ese Masses	s (F12) (I	RR N,					
	147, 148)	,	MLRA 13		,,,	,					
	leyed Matrix (S4)		Umbric Surfa	•	II RA 13	6 122)	3	Indicators of	hydrophytic	vegetation	and
	edox (S5)		Piedmont Flo					wetland hyd		-	
								-			ι,
	Matrix (S6)		Red Parent N	nateriai (FZ	I) (IVILK	4 127, 147	')	unless distu	rbed or prob	iematic.	
Restrictive L	ayer (if observed):										
Туре:			<u></u>								
Depth (inc	hes):						Hydric S	oil Present	? Yes	No_	<i>-</i>
Remarks:											
	graval road										
No soil due to	graverroau										



Upland data point wrae260_u facing east



Upland data point wrae260_u facing west

Project/Site: Atlantic Coast Pipe	eline	City/C	county: Randolph County	y	Sampling Date: 6/15/2016
Applicant/Owner: Dominion				_ State: WV	Sampling Point: wrae254e_w
Investigator(s): CG, SA, KO		Section			
Landform (hillslope, terrace, etc					
Subregion (LRR or MLRA): N		Lat: 38.56099401	Lona: -80.	13659118	Datum: WGS 1984
Soil Map Unit Name: Buchanan	and Ernest stony	soils, 15 to 35 percent slop	oes	NWI classifi	cation: PEM
Are climatic / hydrologic condition	ons on the site typi	ical for this time of year? Y	res No	(If no, explain in F	Remarks.)
Are Vegetation, Soil	, or Hydrology	significantly distur	bed? Are "Norma	I Circumstances"	present? Yes No
Are Vegetation, Soil					
					s, important features, etc.
Hydrophytic Vegetation Prese	nt? Yes	∨ No			
Hydric Soil Present?	Yes	No	Is the Sampled Area	V V	No
Wetland Hydrology Present?		✓ No	within a Wetland?	res	NO
Remarks:		<u> </u>			
HYDROLOGY					
Wetland Hydrology Indicato	rs:			Secondary Indic	ators (minimum of two required)
Primary Indicators (minimum o		check all that apply)		Surface Soil	
✓ Surface Water (A1)	T One is required,	True Aquatic Plants (B14)		getated Concave Surface (B8)
High Water Table (A2)		Hydrogen Sulfide Od		✓ Drainage Pa	
Saturation (A3)		Oxidized Rhizosphere		Moss Trim L	
Water Marks (B1)		Presence of Reduced		· · ·	Water Table (C2)
Sediment Deposits (B2)		Recent Iron Reductio		Crayfish Bu	
Drift Deposits (B3)		Thin Muck Surface (C	C7)	Saturation V	isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Other (Explain in Ren	narks)	Stunted or S	Stressed Plants (D1)
Iron Deposits (B5)					Position (D2)
Inundation Visible on Aeri				Shallow Aqu	
Water-Stained Leaves (BS	3)				aphic Relief (D4)
Aquatic Fauna (B13)			.	✓ FAC-Neutra	Test (D5)
Field Observations:	4		1		
Surface Water Present?		Depth (inches):	2		
Water Table Present?		Deptn (inches):	<u> </u>		
Saturation Present? (includes capillary fringe)	Yes No _	Depth (inches):	Wetland F	Hydrology Prese	nt? Yes V No
Describe Recorded Data (stre	am gauge, monito	ring well, aerial photos, pre	vious inspections), if ava	ailable:	
Remarks:					

Sampling F	Point: wrae254e_	_w
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	Absolute	Dominant II	ndicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:)	% Cover	Species?		Number of Dominant Species
1. none	0			That Are OBL, FACW, or FAC:5 (A)
2.				(//
				Total Number of Dominant
3				Species Across All Strata: (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC:100 (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 1 = 65
Sapling/Shrub Stratum (Plot size: 15)		_		FACW species 25 x 2 = 50
1 Sambucus nigra	10	Yes	FAC	FAC species10 x 3 =30
·· ·				FACU species0
2				0
3				UPL species $\begin{array}{c} 0 \\ 100 \\ \end{array}$ $\begin{array}{c} x \ 5 = \\ 145 \\ \end{array}$
4				Column Totals: (A) (B)
5				Prevalence Index = B/A = 1.45
6				Trevalence mack = B/TC =
7				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9				✓ 3 - Prevalence Index is ≤3.0 ¹
<u>_</u>		= Total Cove		4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover: 5	20% of	total cover:_	2	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5)				· , , , , , , , , , , , , , , , , , , ,
1. Glyceria striata	20	Yes	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Carex stipata	20	Yes	OBL	
3. Packera aurea	15	Yes	FACW	¹ Indicators of hydric soil and wetland hydrology must
d Carex gynandra	15	Yes	OBL	be present, unless disturbed or problematic.
5. Ranunculus pensylvanicus	10	No	OBL	Definitions of Four Vegetation Strata:
<u> </u>				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6. Impatiens capensis	10	No_	FACW	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				
	90	Tatal Caus		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 45		= Total Cove total cover:		of size, and woody plants less than 3.20 it tall.
0070 01 10101 00 001.	20% 01	total cover:_		Woody vine – All woody vines greater than 3.28 ft in
violation (1 lot size)	0			height.
1. <u>none</u>	0			
2				
3				
4				
5.				Hydrophytic
J	0	T 0		Vegetation Present? Yes No
50% of total cover: 0		= Total Cove	^	· · · · · · · · · · · · · · · · · · ·
0070 01 total 00701.		total cover:_		
Remarks: (Include photo numbers here or on a separate sl	heet.)			

Profile Desc	ription: (Describe t	o the dep	oth needed to docum	ent the i	ndicator	or confirn	n the absen	ce of indicators.)
Depth	Matrix		Redox	Feature	S			
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remarks
0-6	10YR 3/1	100					L	
6-14	10YR 3/1	100					L	
			10YR 3/6	5	С	M		
14-20	10YR 5/8	100					COSL	
14-20	1011 3/0							
			·				-	
							-	
1Typo: C-C	ancontration D-Donl	otion PM	-Poducod Matrix MS	-Mackao	L Sand Gr	nine	² Location:	PL -Poro Lining M-Matrix
Hydric Soil		etion, Rivi	=Reduced Matrix, MS	=iviasked	Sand Gr	ains.		PL=Pore Lining, M=Matrix. icators for Problematic Hydric Soils ³ :
-			Dork Surface	(87)			iiiu	2 cm Muck (A10) (MLRA 147)
Histosol	oipedon (A2)		Dark Surface Polyvalue Bel		ca (S8) (N	II DA 1 <i>1</i> 7	1/8)	Coast Prairie Redox (A16)
Black Hi			Polyvalue Bei					(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye			, 1 70		Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Mat		,			(MLRA 136, 147)
	ick (A10) (LRR N)		Redox Dark S		·6)			Very Shallow Dark Surface (TF12)
	d Below Dark Surface	e (A11)	Depleted Darl	k Surface	(F7)		_	Other (Explain in Remarks)
Thick Da	ark Surface (A12)		Redox Depres	ssions (F	8)			
	lucky Mineral (S1) (L	RR N,	Iron-Mangane		es (F12) (LRR N,		
	A 147, 148)		MLRA 136				2	
	Gleyed Matrix (S4)		Umbric Surfac					ndicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					wetland hydrology must be present,
	Matrix (S6)		Red Parent M	laterial (F	21) (MLR	A 127, 14	/)	unless disturbed or problematic.
	Layer (if observed):							
Type:								
Depth (in	ches):						Hydric S	oil Present? Yes No
Remarks:								



Wetland data point wrae254e_w facing northwest



Wetland data point wrae254e_w facing southeast

Project/Site: Atlantic Coast Pipeline	City/County: Ra	ndolph County	Sampling Date: 6/15/2016
Applicant/Owner: Dominion		State: WV	Sampling Point: wrae254_u
	Section, Townsh		
Landform (hillslope, terrace, etc.): bench			
Subregion (LRR or MLRA): N			
Soil Map Unit Name: Buchanan and Ernest stor	ny soils, 15 to 35 percent slopes	NWI classif	fication: UPLAND
Are climatic / hydrologic conditions on the site ty	pical for this time of year? Yes	No (If no, explain in	Remarks.)
Are Vegetation, Soil, or Hydrolog			
Are Vegetation, Soil, or Hydrolog			
SUMMARY OF FINDINGS – Attach			
Lludrophytic Vagatation Dragont2	No. 4		
	No. 4/	mpled Area	🗸
	No V within a	Wetland? Yes	No
Remarks:			
LIVEROLOGY.			
HYDROLOGY		Casandani Indi	octors (minimum of two required)
Wetland Hydrology Indicators:	to aboat all that apply)		cators (minimum of two required)
Primary Indicators (minimum of one is required	••••	Surface So	
Surface Water (A1)	True Aquatic Plants (B14)		egetated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Odor (C1)Oxidized Rhizospheres on Livin	_	Patterns (B10)
Saturation (A3) Water Marks (B1)	Oxidized Knizospheres on Livin Presence of Reduced Iron (C4)		Lines (B16) n Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reduction in Tilled	·	
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)		<u> </u>	ic Position (D2)
Inundation Visible on Aerial Imagery (B7)		Shallow Aq	
Water-Stained Leaves (B9)			raphic Relief (D4)
Aquatic Fauna (B13)		FAC-Neutra	al Test (D5)
Field Observations:			
	Depth (inches):		
Water Table Present? Yes No	Depth (inches):		
Saturation Present? Yes No (includes capillary fringe)	Depth (inches):	Wetland Hydrology Prese	ent? Yes No
Describe Recorded Data (stream gauge, moni	toring well, aerial photos, previous inspe	ections), if available:	
Demonto			
Remarks:			

Sampling	Point: wrae254_	_u
Sambling	Point: wiaczor-	

00	Absolute	Dominant Ir		Dominance Test worksheet:
Tree Stratum (Plot size: 30)	% Cover	Species?	<u>Status</u>	Number of Dominant Species
1. none				That Are OBL, FACW, or FAC:0 (A)
2				Total Number of Dominant
3				Species Across All Strata: 3 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC:0 (A/B)
6				
7				Prevalence Index worksheet:
	0	= Total Cover		Total % Cover of: Multiply by:
50% of total cover:0	20% of	total cover:	0	OBL species 0 x 1 = 0
Sapling/Shrub Stratum (Plot size: 15				FACW species x 2 =
1. none	0			FAC species0 x 3 =0
2.				FACU species15
3				UPL species0 x 5 =0
4				Column Totals:15 (A)60 (B)
				、 , 、 ,
5				Prevalence Index = B/A =4
6		-		Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 ¹
0		= Total Cover		4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover:0	20% of	total cover:	0	data in Remarks or on a separate sheet)
Herb Stratum (Plot size:)	_			Problematic Hydrophytic Vegetation ¹ (Explain)
1. Achillea millefolium	5	Yes	FACU	1 Toblematic Hydrophytic vegetation (Explain)
2. Dactylis glomerata	5	Yes	FACU	Indicators of hydric coil and watland hydrology must
3. Plantago major	5	Yes	FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4	-			Definitions of Four Vegetation Strata:
5				John Mone of Four Pogotation Gradua
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
10.				than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
11	15			Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 7.5		= Total Cover total cover:	3	of size, and woody plants less than 3.26 it tall.
Woody Vine Stratum (Plot size: 30)	20 /6 01	total cover		Woody vine – All woody vines greater than 3.28 ft in
1. none	0			height.
2				
3				
4				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 s	heet.)			

	ription: (Describe t	o the dept				or confirm	n the abse	nce of indic	ators.)		
Depth (in all and)	Matrix			x Features			- :		5	-1	
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u></u> %	Type ¹	Loc ²	Textur	<u> </u>	Rema	rks	
				<u> </u>							
											
	-										
	oncentration, D=Depl	etion, RM=	Reduced Matrix, MS	S=Masked	Sand Gra	ains.		n: PL=Pore L			
Hydric Soil I	Indicators:						Ir	dicators for	Problematic	c Hydric S	oils³:
Histosol	(A1)		Dark Surface	(S7)				2 cm Mucl	(A10) (MLF	RA 147)	
	pipedon (A2)		Polyvalue Be		e (S8) (N	II RΔ 147	148)		irie Redox (A		
Black Hi			Thin Dark Su						147, 148)	,	
						47, 140)				oilo (E10)	
	n Sulfide (A4)		Loamy Gleye		-2)		_		Floodplain S	OIIS (F 19)	
	d Layers (A5)		Depleted Ma						136, 147)		
	ick (A10) (LRR N)		Redox Dark	•	•		_		ow Dark Sur	•	2)
Depleted	d Below Dark Surface	e (A11)	Depleted Dar	k Surface	(F7)		_	_ Other (Exp	olain in Rema	arks)	
Thick Da	ark Surface (A12)		Redox Depre	ssions (F8	5)						
Sandy M	lucky Mineral (S1) (L	RR N,	Iron-Mangan	ese Masse	s (F12) (LRR N,					
MLRA	A 147, 148)		MLRA 13	6)							
	Bleyed Matrix (S4)		Umbric Surfa	•	VILRA 13	6. 122)		³ Indicators of	f hydrophytic	vegetation	n and
	ledox (S5)		Piedmont Flo				18)		drology must	-	
	Matrix (S6)		Red Parent N					-	irbed or prob		٠,
			Red r arent n	nateriai (i z	i) (IVILIX	A 121, 141	''	uriless dist	ibea or proc	nemanc.	
restrictive i	_ayer (if observed):										
Type: gra											
Depth (inc	ches): <u>0</u>						Hydric	Soil Present	? Yes	No	
Remarks:											
	ailable due to heavily	compacted	gravel access road								
NO SOII PIL AVA	illable due to fleavily	compacied	graver access road	•							



Upland data point wrae254_u facing north



Upland data point wrae254_u facing west